



**WE ARE A  
PROUD  
MEMBER OF**

**HARDI**





**MA-12700A**  
**MEGOHMMETER**  
**AUTO-RANGING**  
**INSULATION**  
**TESTER**



**MA-12817B**  
**DIGITAL**  
**MULTI-METER**  
**WITH TEMP.**



**NEW!!!**  
**MA-1028**  
**DIGITAL MULTI-METER**  
**WITH TEMPERATURE**  
**TRUE RMS**  
**CAT III 600V**



**MA-12827**  
**COMPACT**  
**DIGITAL**  
**MULTI-METER**



**MA-12818**  
**DIGITAL**  
**MULTI-METER**  
**WITH TEMP.**



MECHANICAL DOORS  
TO PREVENT WRONG  
HOOK-UP

FUNCTION	MA-1028	MA-12700A	MA-12817B	MA-12818	MA-12827
DCV	60mV, 600mV, 6V, 60V, 600V, 1000V	0.1mV	200mV, 2V, 20V, 200V, 1000V	200mV, 2V, 20V, 200V, 1000V	1000V
ACV (50/60Hz)	60mV, 600mV, 6V, 60V, 600V, 750V	100V, 250V, 500V, 1000V	200mV, 2V, 20V, 200V, 700V	2V, 20V, 200V, 700V	1000V
DCA	60mA, 600mA, 6A, 10A		2mA, 20mA, 200mA, 10A	2mA, 200mA, 10A	10A
ACA	60mA, 600mA, 6A, 10A		2mA, 20mA, 200mA, 10A	20mA, 200mA, 10A	10A
RESISTANCE	600Ω, 6kΩ, 60kΩ, 600kΩ, 6MΩ	1MΩ - 20GΩ	200Ω, 2kΩ, 20kΩ, 200kΩ, 2MΩ, 20MΩ, 200MΩ	200Ω, 2kΩ, 20kΩ, 200kΩ, 2MΩ, 20MΩ, 200MΩ	40MΩ
TEMPERATURE	-4F TO 1832F -20C TO 1000C		-40F TO 1832F (-40C TO 1000C)	-20F TO 1832F (-29C TO 1000C)	-58F TO 1832F (-50C TO 1000C)
CAPACITANCE	9.999nF, 99.99nF, 999.9nF, 9.999μF, 99.99μF, 999.9μF, 9.999mF		2nF, 20nF, 200nF, 2μF, 200μF	20nF, 200nF, 20μF, 2000μF	200μF
FREQUENCY	99.99Hz, 999.9Hz, 9.999kHz, 99.99kHz, 999.9kHz, 9.999MHz			2000kHz	10MHz
DUTY CYCLE	1% TO 9%				99.9%
DIODE TEST	*				
CONTINUITY	*	*			
TEST LEADS	MA-DMTL1	YES	MA-DMTL1	MA-DMTL1	MA-DMTL1
PROBE	MA-DMTP		MA-DMTK	MA-DMTP	MA-DMTKA
BATTERY	(2) AAA	(6) AA	(1) 9V	(1) 9V	(1) 9V
CASE	*	*	*	*	*



**MA-12829**  
**AUTO-RANGING**  
**DIGITAL**  
**MULTI-METER**



**MA-12837**  
**AC/DC DIGITAL**  
**MULTI-METER WITH**  
**AUTO SELECTION**



**MA-33C**  
**PALM SIZE**  
**DIGITAL**  
**MULTI-METER**



**MA-MY69**  
**AUTO-RANGING**  
**DIGITAL**  
**MULTI - METER**

FUNCTION	MA-12829	MA-12837	MA-33C	MA-MY69
DCV	1000V	600V	200mV, 2000mV, 20V, 200V, 500V	400mV - 1000V
ACV (50/60Hz)	1000V	600V	200V, 500V	400mV - 750V
DCA	10A		2000µA, 20mA, 200mA, 10A	400uA - 10A
ACA	10A			400uA - 10A
RESISTANCE	40MΩ	60MΩ	200Ω, 2000Ω, 20KΩ, 200KΩ, 20MΩ	400Ω - 40MΩ
TEMPERATURE	-58F TO 1832F (-50C TO 1000C)		-40F TO 1832F (-40C TO 1000C)	-4F - 1400F (-20C - 750C)
CAPACITANCE	100uF	30mF		4nF - 200uF
FREQUENCY	10MHz	100kHz		100Hz - 10MHz
DUTY CYCLE	99.9%	99.9%		.1% - 99.9%
DIODE TEST		*		*
TRANSISTOR TEST				*
CONTINUITY		*		*
TEST LEADS	MA-DMTL1	MA-DMTL1	MA-DMTL1	MA-DMTL1
PROBE	MA-DMTK1		MA-DMTP	MA-DMTK
BATTERY	(1) 9V	(1) 9V	(1) 9V	(1) 9V
CASE	*	*	*	*



**MA-DM1**  
**DIGITAL MULTI-METER**  
 INCLUDES :  
 MA-DMTL, CASE,  
 MANUAL & BATTERIES

**MA-DMT3**  
**DIGITAL MULTI-METER**  
**WITH TEMPERATURE**  
 INCLUDES:  
 MA-DMTL, MA-DMTP, CASE, MANUAL  
 & BATTERIES

FUNCTION	MA-DM1	MA-DMT3
DCV	200mV, 2V, 20V, 200V, 1000V	200mV, 2V, 20V, 200V, 1000V
ACV (50/60Hz)	200V (750V)	200V (750V)
DCA	200µA, 2000µA, 20mA, 200mA, 10A	200µA, 2000µA, 20mA, 200mA, 10A
OHM	200Ω, 2000Ω, 20KΩ, 200KΩ, 2000KΩ	200Ω, 2000Ω, 20KΩ, 200KΩ, 2000KΩ
TEMPERATURE	NO	-58F TO 2498F (-50C TO 1370C)
DIODE TEST	Test Current 1.6mA: Voltage 2.8V	Test Current 1.6mA: Voltage 2.8V
TRANSISTOR TEST	0-1000 hFE of PNP or NPN transistors	0-1000 hFE of PNP or NPN transistors
TEST SIGNAL		50Hz test signal appears between VΩmA and COM jacks
AUDIBLE CONTINUITY		Red lead to VΩmA and COM jacks Black lead to COM



**MA-DMTL**  
**TEST LEADS**



**MA-12361**  
**IMMERSION PROBE**  
**MA-12362**  
**AIR PROBE**



**MA-DMTL1**  
**PROTECTIVE COVER**  
**TEST LEADS**



**MA-DMTP**  
**TEMPERATURE**  
**PROBE**



**MA-DMTK**  
**K-PROBE**



**MA-DMTKA**  
**ADAPTOR FOR**  
**THE MA-DMTK**

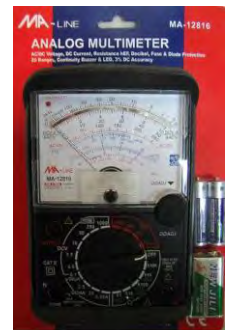


**MA-DMTK1**  
**K-PROBE WITH**  
**ADAPTOR**

FUNCTION	MA-12814	MA-12816A	MA-12823
DCV	1V, 10V, 50V, 250V, 500V	0.1V, 0.5V, 2.5V, 10V, 50V, 250V, 1000V	75V
ACV (50/60Hz)	1V, 10V, 50V, 250V, 500V	10V, 50V, 250V, 1000V	150V, 300V, 750V
DCA	500µA, 50mA, 250mA	50µA, 2.5mA, 25mA, .25A, 10A	
ACA			6A, 15A, 150A, 600A
OHM	Rx 1k (Center 5K)		
TEMPERATURE			-4F TO 300F (-20C TO 150C)
RESISTANCE		x1, x10, x100, x1K, x10K	0-2kΩ, 0-200kΩ
CONTINUITY			
DECIBEL		-10 TO +22dB	
ICEO		150µA, 1.5mA, 15mA	
hFE		0 - 1000	

**MA-12814**  
**ANALOG MULTI-METER**  
 UNIT SIZE: 3-1/2" X 2-1/4"  
 INCLUDES :  
 MA-DMTL4, MANUAL &  
 (1) AA BATTERY

**MA-12816A**  
**ANALOG MULTI-METER**  
 UNIT SIZE: 5-1/2" X 3-3/4"  
 INCLUDES:  
 MA-DMTL, MANUAL,  
 (1) 9V BATTERY & (2) AA BATTERIES



**MA-12823**  
**ANALOG CLAMP-ON**  
**METER**  
**WITH TEMPERATURE**  
 INCLUDES:  
 MA-DMTL, CASE, MANUAL  
 & (2) AA BATTERIES

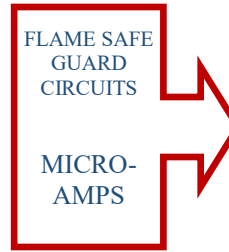




**MA-12813**  
**DELUXE**  
**DIGITAL**  
**CLAMP-ON**  
**METER**



**MA-12822B**  
**1000 AMP AC CURRENT**  
**AUTO-RANGING LOW**  
**TEMPERATURE**  
**CLAMP-ON METER**



**MA-12826B**  
**HVAC DIGITAL**  
**CLAMP-ON METER**

**BUY 6 AND**  
**GET A**  
**COUNTER**  
**DISPLAY**  
**BOX FREE**



**MA-3268C**  
**MINI AUTO-RANGING**  
**CLAMP-ON METER**



**MA-3268WC**  
**MINI AUTO-RANGING**  
**CLAMP-ON METER**  
**WITH CAPACITANCE**

**BUY 6 AND**  
**GET A**  
**COUNTER**  
**DISPLAY**  
**BOX FREE**

FUNCTION	MA-12813	MA-12822B	MA-12826B	MA-3268C	MA-3268WC
DCV	600V	400mV, 4V, 40V, 400V, 700V	600V	200mV - 600V	400mV - 600V
ACV	600V	4V, 40V, 400V, 1000V	600V	2V - 600V	400Mv - 600v
DCA	200A, 600A	400A, 1000A	4000uF		
ACA	200A, 600A	400A. 1000A	400A, 1000A	2A - 400A	40A - 400A
RESISTANCE	2000Ω		400MΩ	200Ω - 20MΩ	400Ω - 40MΩ
TEMP.	-4F TO 2498F (-20C TO 1370C)	-58F TO 1832F (-50C TO 1000C)	-58F TO 2372F (-50C TO 1300C)	-4F to 1400F (-20C to 750C)	-38F to 1750F (-38C to 950C)
OHM		400, 4K, 40K, 400K, 4M, 40M			
CAPACITANCE		40nF, 400nF, 4uF, 40uF, 100uF	100uF		5nF to 200uF
FREQUENCY	50/60Hz	40, 400, 4K, 40K, 400K, 4MHz	150KHz		
CONTINUITY	*	*	*	*	*
DIODE TEST		*	*		
JAW OPENING	1-1/2"	2-1/4"	3/4"	7/8"	7/8"
TEST LEADS	MA-DMTL1	MA-DMTL1	MA-DMTL1	MA-DMTL	MA-DMTL
TEMP. PROBE			MA-DMTP	MA-DMTP	MA-DMTP
BATTERY	(1) 9V	(1) 9V	(2) AAA	(2) AAA	(2) AAA
CASE	*	*	*	*	*



**MA-600CFA**  
**ECONOMY**  
**AUTO-RANGING**  
**CLAMP-ON METER**



**MA-821**  
**DIGITAL**  
**CLAMP-ON**  
**METER**



**MA-823**  
**DIGITAL CLAMP-ON**  
**METER**  
**WITH TEMPERATURE**

FUNCTION	MA-600CFA	MA-821	MA-823
DCV	200mV, 20V, 20V, 200V, 600V	600V	40mV - 600V
ACV	2V, 20V, 200V, 600V	600V	4V - 600V
DCA			
ACA	2A, 20A, 200A, 600A	2A, 20A, 200A, 600A	4A - 600A
RESISTANCE	200Ω, 2kΩ, 20kΩ, 200kΩ, 2MΩ, 20MΩ	20K - 20MΩ	400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ
TEMP.	-38F TO 1750F (-38C TO 950C)		32F TO 752F (0 - 400C)
CAPACITANCE			40nF, 400nF, 4uF, 100uF
FREQUENCY			10HZ - 10MHZ
CONTINUITY		*	
DIODE TEST		*	*
JAW OPENING	1-1/8"	1-1/4"	1-1/4"
TEST LEADS	MA-DMTL1	MA-DMTL1	MA-DMTL1
TEMPERATURE PROBE	MA-DMTK		MA-DMTK1
BATTERY	(1) 9V	(2) AAA	(2) AAA
CASE	*	*	*



**MA-12353**  
**AC CURRENT**  
**CLAMP-ON**  
**ADAPTOR**  
JAW OPENING: 1/2"  
RANGE: 200A (AC)  
INCLUDES: TEST LEADS



**MA-12356**  
**CLAMP-ON**  
**K-TYPE PROBE**  
**THERMOMETER**  
JAW OPENING 1-1/4"  
TEMP:  
-40F TO 1100F (-40C TO 590C)



**MA-12355B**  
**CLAMP-ON PROBE**  
**K-TYPE**  
**THERMOMETER**  
JAW OPENING 1-3/8"  
TEMP:  
-40F TO 392F  
(-40C TO 200C)  
10' LEAD



**MA-12357A**  
**STRAP-ON**  
**K-TYPE PROBE**  
**THERMOMETER**  
TEMP:  
-4F TO 300F (-20C TO 149C)



**MA-12358**  
**AC/DC CURRENT**  
**CLAMP-ON**  
**ADAPTOR**  
JAW OPENING: 1-1/8"  
RANGE: 40 TO 400A (AC/DC)  
NON-CONTACT VOLTAGE:  
50 TO 600 VAC  
INCLUDES:  
TEST LEADS, CASE &  
(2) AAA BATTERIES



FUNCTION	MA-DLSN7
AIR PRESSURE	300 TO 1100hPA
TEMPERATURE	-31F TO 176F (-35C TO 80C)
HUMIDITY	0 TO 100%RH
READING MEMORY	31,998
MEASURING RATE	2 SEC TO 24HR
SOFTWARE	WINDOWS XP/ VISTA/ WINDOWS 7 & 8
BATTERY	(1) 3.6V LITHIUM

**AIR PRESSURE, HUMIDITY &  
 TEMPERATURE DATA LOGGER**

**MA-DLSN71**



INCLUDES: CASE, MANUAL

**INCLUDES THE FOLLOWING ACCESSORIES:**  
 HOOK FOR RECOVERING PARTS  
 MAGNET FOR RETRIEVING METALLIC PARTS  
 MIRROR FOR SIDE VIEWING

**VIDEO BORESCOPE  
 WITH CASE**

**MA-VID-1** 34" TUBE LENGTH  
**MA-VID-2** 34" TUBE LENGTH PLUS  
 10" EXTENSION

**SPECIFICATIONS:**

WATER RESISTANT IP67  
 2.7" TFT RESOLUTION – 960 X 240 PIXELS  
 LENS SENSOR RESOLUTION – 640 X 480 PIXELS  
 DISPLAY – 2.7" TFT LCD  
 DIAMETER OF CAMERA HEAD – 8mm  
 WHITE COMPARISON - AUTOMATIC  
 EXPOSURE TO LIGHT – AUTOMATIC  
 CAMERA ILLUMINATION – 4 WHITE LEDs  
 LENS COVERAGE - 54°  
 FLEXIBLE GOOSE NECK LENGTH – 34" (88cm)

**MA-MHG-2  
 DIFFERENTIAL  
 PRESSURE GAUGE  
 0 - 2.0 INCHES OF  
 WATER COLUMN**



**PRESSURE RATING:**  
 15 PSI(1.03 BAR)  
**AMBIENT TEMPERATURE RANGE:**  
 20F TO 140F (-70C TO 60C)



**MA-010669**  
**ENVIRONMENTAL KIT**

**INCLUDES:**  
**(1) MA-AN84A**  
 MINI ANEMOMETER  
**(1) MA-12838A**  
 MINI MANOMETER  
**1) MA-16531B**  
 PSYCHROMETER WITH  
 WETBULB & DEW POINT

**MA-SND80**  
**SOUND LEVEL**  
**METER**

**LEVEL RANGE:**  
 LOA = 35-100Db  
  
**INCLUDES:**  
 CASE, MANUAL & (1) 9V  
 BATTERY

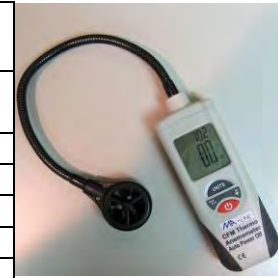


TEMP.	32F TO 122F (0 TO 50C)
CFM (CFM=ft <sup>3</sup> /min)	0-999.900
Ft./Min.	196-4900
M/S	1.00-25.00
Km/h	3.6-90.0
MPH	2.24-56.0
knots	1.94-48.5

**MA-AN84A**  
**DIGITAL MINI ANEMOMETER (CFM)**  
**WITH MAGNET**

**INCLUDES:** CASE, MANUAL, & (1) 9V BATTERY

TEMP.	14F TO 140F (-10C TO 60C)
CFM (CFM=ft <sup>3</sup> /min)	0-999.900
Ft./Min.	119-5900
M/S	.60-30.00
Km/h	2.2-108.00
MPH	1.4 -67.0
knots	1.2-58.0



**MA-12843B**  
**DIGITAL ANEMOMETER (CFM) WITH**  
**FLEXIBLE NECK**

**INCLUDES:** CASE, MANUAL & (1) 9V BATTERY

**MA-12838A**

**INCLUDES:**  
 FLEXIBLE  
 TUBING,  
 1/8" MPT X 1/8"  
 BARB ACCESS  
 FITTING  
 CASE, MANUAL  
 & (1) 9V BATTERY



**MINI DIGITAL DUAL**  
**DIFFERENTIAL MANOMETER**  
**WITH MAGNET**

**INCLUDES:**  
 CASE,  
 MANUAL,  
 & (1) 9V  
 BATTERY

**MA-16531C**



**DIGITAL**  
**PSYCHROMETER**  
 WITH WET BULB &  
 DEW POINT WITH  
 MAGNET

-55.40 TO +55.40IN  
 OF  
 WATER COLUMN

inH2O	±55.40"
psi	±2
mbar	±137.8
kPa	±13.79
inHg	±0.407
mmHg	±103.4
ozin <sup>2</sup>	±32.00
ftH2O	±4.612
cmH2O	±140.6
kgcm <sup>2</sup>	±.140
bar	±.137



**MA-12835B**

**INCLUDES:**  
 FLEXIBLE  
 TUBING,  
 1/8" MPT X 1/8"  
 BARB ACCESS  
 FITTING  
 CASE, MANUAL  
 & (1) 9V BATTERY

**DIGITAL DUAL DIFFERENTIAL**  
**MANOMETER WITH MAGNET**

FUNCTION	MA-16531B	MA-16533
HUMIDITY	0 TO 100% RH	0 TO 100% RH
TYPE K		-58F TO 2501F (-50C TO 1372C)
NTC		32F TO 140F (0 TO 60C)
DEW POINT	-22F TO 212 (-30C TO 100C)	-22F TO 199F (-30C TO 100C)
WET BULB	32F TO 170F (0 TO 80C)	32F TO 176F (0 TO 80C)
TEMP.	-22F TO 212F (-30C TO 100C)	-30F TO 199F (-30C TO 100C)



**INCLUDES:**  
 MA-DMTK, CASE,  
 MANUAL,  
 & (1) 9V BATTERY

**MA-16533**

**DIAGNOSTIC**  
**PSYCHROMETER**  
 TARGETS SUPER HEAT  
 & EVAPORATOR  
 EXIT TEMPERATURE





**MA-12830A**  
**CARBON MONOXIDE DETECTOR**

0 TO 1000 PPM

**INCLUDES:**  
CASE, MANUAL &  
(1) 9V BATTERY

**MA-12830A-S**  
**SENSOR ONLY**

**MA-CO801**  
**CARBON MONOXIDE DETECTOR**

**TEMPERATURE:**  
-4F TO 122F (-20C TO 50C)  
0 TO 1000 PPM

**INCLUDES:**  
CASE, MANUAL &  
(6) AAA BATTERIES



NOMINAL VOLTAGE	40V TO 690V AC
FREQUENCY	2 TO 400Hz

THIS UNIT DETECTS THE ROTARY FIELD OF THREE PHASE SYSTEMS.

**MA-12701**  
**DIGITAL PHASE ROTATION INDICATOR**

**INCLUDES:** TEST LEADS, CASE & MANUAL

NOMINAL VOLTAGE	1V TO 400V AC
NOMINAL VOLTAGE PHASE INDICATION	120V TO 400V AC
FREQUENCY	2 TO 400Hz

THIS UNIT DETERMINES MOTOR-ROTATION DIRECTION AND DETECTS THE ROTARY FIELD OF THREE PHASE SYSTEMS.

**MA-12702**  
**MOTOR & PHASE ROTATION INDICATOR**

**INCLUDES:** TEST LEADS, CASE & MANUAL



**INCLUDES:**  
LEADS,  
MANUAL  
& (1) 9V BATTERY

RANGE	RESOLUTION
200pF	0.1pF
2nF	1pF
20nF	10pF
200nF	100pF
2µF	1nF
20µF	10nF
200µF	100nF
2000µF	1uF
20mF	10uF

**MA-12815A**  
**DIGITAL CAPACITOR TESTER**  
**MA-12815A-24**  
**24" TEST LEADS**

WATTS AC VOLTAGE (45-60HZ)	0-2000W, 6000W 0-200V, 600V
DCV	0-200V, 1000V
INPUT VOLTAGE/CURRENT	0 TO 600ACV, 1 TO 10ACA
OVERLOAD PROTECTION	600V
INPUT IMPEDANCE	1MΩ

**INCLUDES:**  
MA-DMTL1, CASE, MANUAL  
&(1) 9V BATTERY



**WATT METER**  
FOR SINGLE PHASE APPLICATIONS ONLY



**MA-12819**  
**OPEN JAW CURRENT AND VOLTAGE METER**  
DC/AC VOLTAGE & AC CURRENT

FUNCTION	RANGE
DC VOLTAGE	600V
AC VOLTAGE	600V
AC CURRENT	200A
RESISTANCE	240MΩ
CAPACITANCE	200uF
FREQUENCY	9,999MHz
DUTY CYCLE	0.1% - 99.9%
CONTINUITY BUTTON	*
DIODE TEST CURRENT	0.3mA Typical

**INCLUDES:**  
TEST LEADS,  
CASE, MANUAL  
& (2) AA BATTERIES

**MA-12842A**  
**PHOTO NON-CONTACT TACHOMETER**

2.5 TO 99,999 RPM

**INCLUDES:**  
CASE, MANUAL &  
(4) AA BATTERIES

**MA-12844**  
**REFLECTIVE TAPE STRIPS**

IDEAL FOR MEASURING RPM ON MOTORS, GEARS, PULLEYS, COMPRESSORS AND MUCH MORE





CAT IV

**MA-7339**  
**PEN STYLE PROBE**  
**DIGITAL**  
**MULTI-METER**

**NOMINAL VOLTAGE RANGE :**  
12-600V AC/DC  
**INDICATION :** 100-600V AC  
**TEST:**  
3 PHASE F WIRE SYSTEM,  
AC 50/60Hz  
**CONTINUITY :** 0-1MΩ

**INCLUDES :**  
MANUAL & (2) AAA  
BATTERIES

**MA-CGD383**  
**COMBUSTIBLE GAS**  
**DETECTOR**

GASOLINE/PROPANE/  
NATURAL GAS/METHANE GAS/  
FUEL OIL DETECTION

**INCLUDES:**  
SMALL JAR OF LEAK CHECK,  
HARD CARRYING CASE, MANUAL  
& (4) AA BATTERIES



**MA-CGD383-S**    **MA-CGD383-SP**  
**SENSOR ONLY**    **SENSOR PROTECTOR**

**MA-EM3213A**  
**PEN PROBE STYLE**  
**AUTO-RANGING DIGITAL**  
**MULTI-METER WITH CAPACITANCE**



VOLTAGE DC	200m,2V,20V, 200V, 600V
VOLTAGE AC	2V,20V,200V, 600V
CURRENT DC	20, 200mA
CURRENT AC	20, 200mA
RESISTANCE	4KΩ,40KΩ, 400KΩ, 4MΩ
CAPACITANCE	40n,400n,4μ,4
DIODE TEST	1.5V/.mA
CONTINUITY	*

**INCLUDES:** MANUAL &  
(1) CR2032 (3V) BATTERY

**MA-12845A**  
**MICROWAVE LEAK**  
**DETECTOR**

**CALIBRATED:** 2450MHZ  
**RANGE:** 0-9.99 mW/cm<sup>2</sup>  
**WARNING VALUE:** 5.0mW/cm<sup>2</sup>  
**INCLUDES:**  
CASE, MANUAL & (1) 9V BATTERY

The units LED will flash and alarm will sound when detecting leak above 5mW/cm<sup>2</sup>.



**MA-MMD3EA**  
**LCD MOISTURE**  
**INDICATOR FOR**  
**WOOD, DRYWALL**  
**OR CONCRETE**

**INCLUDES:**  
REPLACEABLE TEST PROBE  
PINS, MANUAL & (1) LR44  
BATTERY

MEASURES MOISTURE  
FROM 0 TO 100%



**MA-EM3215**  
**AUTO-RANGING PROBE STYLE**  
**DIGITAL MULTI-METER**



CAT IV 600V

VOLTAGE DC	200m,2V,20V, 200V, 600V
VOLTAGE AC	2V,20V,200V, 600V
CURRENT DC	20, 200mA
CURRENT AC	20, 200mA
RESISTANCE	200,2k,20k,20 0k,2M, 20MΩ
DIODE TEST	*

**INCLUDES:**  
MANUAL & (1) 9V BATTERY

**MA-7409**  
**LASER TAPE**  
**MEASURE**  
**MEASURE DISTANCE, HEIGHT,**  
**AREA AND VOLUME**

**INCLUDES:**  
CASE, MANUAL &  
(1) 9V BATTERY

MEASUREMENT RANGE:  
2FT TO 50FT (0.6 TO 15M)  
APPROXIMATELY



**MA-S3003**  
**POWER METAL/**  
**STUD SENSOR**

Electronically locates cables, gas and water pipes. Traces hidden ceiling hoists and wall studs. Helps drilling or sawing. Senses the presence of main power without touching live wires.





**MA-IM24-A**  
**RECTANGLE**  
**TELESCOPIC**  
**INSPECTION**  
**MIRROR**  
**WITH 3 LEDS**

ADJUSTS TO ANY ANGLE  
MIRROR SIZE: 2" X 3-1/4"  
LENGTH: 11-1/4"  
EXTENDS TO: 34-1/4"

STAINLESS STEEL SHAFT  
WITH VINYL GRIP HANDLE

INCLUDES:  
(2) CR2032 BATTERIES



**MA-IM30-A**  
**ROUND**  
**TELESCOPIC**  
**INSPECTION**  
**MIRROR**  
**WITH 3 LEDS**

ADJUSTS TO ANY ANGLE  
MIRROR SIZE: 3"  
LENGTH: 11-1/8"  
EXTENDS TO: 34-1/4"

STAINLESS STEEL SHAFT  
WITH VINYL GRIP HANDLE

INCLUDES:  
(1) CR2032 BATTERY



MA-149

### TELESCOPIC INSPECTION MIRRORS



MA-142A  
MA-142MA  
MA-143A  
MA-143M

**MA-142A**

2-1/4" ROUND MIRROR  
EXTENDS TO 20"

**MA-142MA**

2-1/4" ROUND MIRROR  
MAGNIFIED  
EXTENDS TO 27"

**MA-143A**

1-1/4" ROUND MIRROR  
EXTENDS TO 25"

**MA-143M**

1-1/4" ROUND MIRROR  
MAGNIFIED  
EXTENDS TO 25"

**MA-149**

2-1/8" X 3-1/2"  
RECTANGULAR MIRROR  
EXTENDS TO 20"

**MA-157A**

1" X 2" OVAL MIRROR  
EXTENDS TO 25"

### STAINLESS STEEL TELESCOPIC MIRRORS



**MA-SM6**

1-1/4" X 2" RECTANGLE  
13" EXTENDS TO 27"

**MA-SM7**

2" X 3-3/4" RECTANGLE  
14.5" EXTENDS TO 27"

**MA-SM8**

3-3/4" ROUND  
14.5" EXTENDS TO 27"



### REPLACEMENT GLASS

\*\*MIRROR ONLY\*\*

**MA-142-1**

2-1/4" ROUND

**MA-157-1**

1" X 2" OVAL

**MA-149-1**

2-1/8" X 3-1/2" RECTANGLE



**MA-16501**  
**HIGH**  
**TEMPERATURE**  
**INFRARED**  
**THERMOMETER**



**MA-16505A**  
**INFRARED**  
**THERMOMETER**  
K TYPE PROBE



**MA-16506**  
**INFRARED**  
**THERMOMETER**  
**WITH DUAL LASER**  
**TARGETING**



**MA-16507**  
**INFRARED**  
**THERMOMETER**  
**WITH 16"**  
**FLEXIBLE NECK**



**MA-16509B**  
**MINI INFRARED**  
**THERMOMETER**



**MA-16513**  
**LOW**  
**TEMPERATURE**  
**INFRARED**  
**THERMOMETER**

FUNCTION	MA-16501	MA-16505A	MA-16506	MA-16507	MA-16509B	MA-16513
TEMP. F/C	-58F ~ 1832F (-50C ~ 1000C)	-58F ~ 1472F (-50C ~ 800C)	-58F ~ 1202F (-50C ~ 650C)	-58F ~ 1112F (-50C ~ 600C)	-58F ~ 1022F (-50C ~ 550C)	-58F ~ 932F (-50C ~ 500C)
K-PROBE		-58F ~ 1472F (-50C ~ 800C)				
RATIO	12:1	12:1	12:1	8:1	12:1	12:1
EMISSIONITY	.95 FIXED	.10 TO 1.0 ADJ.	.1 TO 1.0 ADJ.			.95 FIXED
F/C SWITCHABLE	*	*	*	*	*	*
MAX/MIN/ DIF/AVG RECORD		*				
DATA HOLD	*	*	*	*	*	*
BACKLIGHT	*	*	*	*	*	*
AUTO SHUT OFF	*	*	*	*	*	*
HIGH/LOW ALARM		*				
BATTERY	(1) 9V	(1) 9V	(1) 9V	(1) 9V	(1) 9V	(1) 9V
CASE	*	*	*	*	*	*

**NEW!!!**

**MA-16550  
INFRARED  
THERMOMETER**



**MA-16551  
INFRARED  
THERMOMETER**



**MA-16C81  
COLOR INFRARED  
THERMOMETER**



**GREEN SCREEN  
SETTING OR  
READING TEMP.**



**BLUE SCREEN  
TEMP. REACHES  
BELOW SET TEMP.**

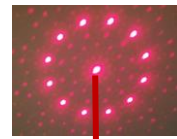


**RED SCREEN  
TEMP. REACHES  
ABOVE SET TEMP.**



**MA-IR9PEN  
POCKET  
INFRARED  
THERMOMETER**

**BUY 6 AND GET A  
COUNTER DISPLAY BOX  
FREE**



FUNCTION	MA-16550	MA-16551	MA-16C81	MA-IR9PEN
TEMP. F/C	-58F ~ 1022F (-50C ~ 550C)	50F ~ 1900F (-45C ~ 1035C)	-36F ~ 968F (-38C ~ 520C)	-27F ~ 932F (-33C ~ 500C)
K-PROBE				
RATIO	12:1	50:1	8:1	9:1
EMISSIVITY	.10 TO 1.0	.10 TO 1.0 ADJ.		
F/C SWITCHABLE	*	*	*	*
MAX/MIN/ DIF/AVG RECORD	*	*		*
DATA HOLD	*	*		
BACKLIGHT	*	*	*	*
AUTO SHUT OFF	*		*	
HIGH/LOW ALARM	*	*		
BATTERY	(2) AAA	(1) 9V	(2) AAA	(1)AA
CASE		*	*	



**MA-DMT123**  
**DUAL PROBE DIGITAL THERMOMETER**

TEMPERATURE RANGE:  
-328F TO 2498F (-200C TO 1370C)  
F/C SWITCHABLE  
4" LCD DUAL DISPLAY  
RELATIVE FUNCTIONS, MIN,  
MAX, AVG, HOLD

**GREAT FOR SUPER HEAT**

INCLUDES: (2) MA-DMTK, CASE,  
MANUAL & (1) 9V BATTERY

**MA-DMT123KIT**  
**DUAL PROBE DIGITAL THERMOMETER KIT (SUPER HEAT KIT)**

INCLUDES:  
1) MA-DMT123  
2) MA-DMTK K-TYPE PROBES  
2) MA-12355B WITH 10' LEADS



**MA-16532**  
**2 IN 1 DIGITAL HUMIDITY AND TEMPERATURE METER**

TEMPERATURE RANGE:  
-4F TO 140F (-20C TO 60C)  
HUMIDITY: 0 TO 100% RH  
F/C SWITCHABLE  
MIN, MAX, DATA HOLD FUNCTION  
DUAL LCD DISPLAY  
AUTO POWER OFF  
BACKLIGHT BUTTON  
INCLUDES:  
CASE, MANUAL & (1) 9V BATTERY



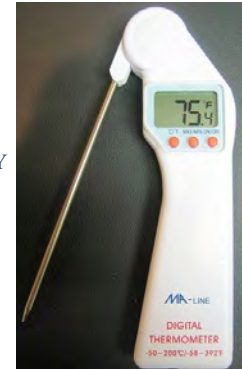
**MA-RT900A**  
**HAND HELD DIGITAL THERMOMETER**

TEMPERATURE RANGE:  
-58F TO 392F (-50C TO 200C)  
F/C SWITCHABLE  
WIDE MEASUREMENT RANGE  
MIN/MAX TEMPERATURE MEMORY  
DATA HOLD FUNCTION  
STAINLESS STEEL PROBE  
MAGNET ON BACK & FOLDING STAND  
NEVER NEEDS TO BE CALIBRATED

INCLUDES: (1) AAA BATTERY

**MA-RT343**  
**ROTARY PROBE POCKET DIGITAL THERMOMETER**

TEMPERATURE RANGE:  
-58F TO 392F (-50C TO 200C)  
F/C SWITCHABLE  
WIDE MEASUREMENT RANGE  
MIN/MAX TEMPERATURE MEMORY  
DATA HOLD FUNCTION  
STAINLESS STEEL PROBE - 4-1/2"  
ROTARY PROBE DESIGN  
HIGH/LOW TEMPERATURE ALARM SETTING  
FOR USE IN FOOD PROCESSING,  
REFRIGERATION, LABORATORY &  
GREENHOUSE



INCLUDES:  
(1) AAA BATTERY

**DIGITAL THERMOMETER**  
**180 DEGREE ROTATING HEAD**



TEMPERATURE RANGE:  
-58F TO 302F (-50C TO 150C)  
ON/OFF SWITCH AND AUTOMATIC SHUT OFF AFTER 10 MIN.  
IT'S UNIQUE FEATURE IS THE 180° ROTATING HEAD

INCLUDES:  
(1) 1.5V BATTERY  
**MA-RT340** WITH 5" STEM  
**MA-RT340LS** WITH 8" STEM



INCLUDES:  
(1) 1.5V BATTERY

TEMPERATURE RANGE:  
-58F TO 302F (-50C TO 150C)  
F/C SWITCHABLE  
ON/OFF SWITCH  
AUTOMATIC SHUT OFF AFTER 10 MIN.

**MA-RT330**  
**DIGITAL THERMOMETER**  
ANTI-ROLLING DESIGN



INCLUDES:  
(2) 1.5V BATTERY

**MA-RT335**  
**DIGITAL THERMOMETER**  
ANTI-ROLLING OVAL DESIGN

TEMPERATURE RANGE:  
-58F TO 392F (-53C TO 200C)  
F/C SWITCHABLE  
ON/OFF SWITCH



INCLUDES:  
(1)1.5V BATTERY  
**BUY 12 AND GET A  
COUNTER DISPLAY BOX  
FREE**



**MA-PDT392B (1/PKG.)  
DIGITAL POCKET THERMOMETER**

F/C SWITCHABLE  
STAINLESS STEEL STEM  
ON/OFF SWITCH – AUTO OFF  
HIGH/LOW TEMPERATURE RECALL  
DATA HOLD  
WATER RESISTANCE  
**TEMP. RANGE:**  
-40F TO 392F (-40C TO 200C)



**ADJUSTABLE POCKET  
THERMOMETERS  
WITH CASE AND 5" STEM**

- MA-PT160** (12/CASE)
- MA-PT160B** (1/PKG)
- 1" DIAL -40F TO 160F**
- MA-PT220** (12/CASE)
- MA-PT220B** (1/PKG)
- 1" DIAL 0 TO 220F**
- MA-PT550** (12/CASE)
- 1" DIAL 50F TO 550F**
- MA-PT70C** (12/CASE)
- 1" DIAL -40C TO 70C**
- MA-PT110C** (12/CASE)
- 1" DIAL -10C TO 110C**
- MA-PT138160** (12/CASE)
- 1-3/8" DIAL -40F TO 160F**
- MA-PT138220** (12/CASE)
- 1-3/8" DIAL 0 TO 220F**
- MA-PT134160** (1/PKG)
- 1-3/4" DIAL -40F TO 160F**
- MA-PT134220** (1/PKG)
- 1-3/4" DIAL 0 TO 220F**



**TEMP.  
RANGE:**  
32F TO 122F  
(0 TO 50C)

INCLUDES:  
(1)AAA  
BATTERY

**MA-RT819  
BIG DIGIT PEN SHAPE  
HYGRO THERMOMETER**  
F/C SWITCHABLE - MAX/MIN READING  
MEMORY -  
DUAL DISPLAY FOR TEMPERATURE  
& HUMIDITY

**MA-ST200  
PIPING  
THERMOMETER**

TEMPERATURE RANGE:  
-50F TO 250F (-40C TO 120C)

2 DIAL SPRING MOUNTED OR  
SURFACE THERMOMETER

DESIGNED TO MEASURE  
SURFACE TEMPERATURES  
OF PIPES, CYLINDERS,  
SPINDLES, ETC.  
BETWEEN 3/4"OD TO 6"OD

KIT INCLUDES:  
2 CLASP AND 3 DIFFERENT  
SIZES OF HIGHLY RESILIENT  
STAINLESS STEEL



**POCKET STICK THERMOMETER**



**MA-PS120** -40F TO 160F (12/CTN)  
**MA-PS220** 0F TO 220F (12/CTN)  
FAHRENHEIT SCALE – 5" IN LENGTH – SPIRIT FILLED

**INDOOR/OUTDOOR THERMOMETER WITH CLOCK**

INSTANT F/C SWITCH –  
WALL MOUNT OR TABLE DESIGN –  
TIME, DATE DISPLAY & ALARM –  
12/24 HOURS SYSTEM CLOCK  
INCLUDES: (1) AAA BATTERY



**MA-BDIOT**  
INDOOR/OUTDOOR TEMP:  
-4F TO 122F (-20C TO 50C)

**MA-BDHTR**  
INDOOR/OUTDOOR TEMP:  
-58F TO 158F (-50C TO 70C)  
HUMIDITY: 20% TO 90%

**MA-ETP110**  
**HUMIDITY ALARM**  
MEASURES TEMPERATURE,  
RELATIVE HUMIDITY, AND DEW  
POINT

TEMP. RANGE:  
14F TO 140F (-10C TO 60C)  
HUMIDITY: 20% TO 95%  
DEW POINT:  
-20.2F TO 138.2F (-29C TO 59C)  
(2) AAA BATTERIES NOT INCLUDED



**MA-1660A**  
**FREEZER ALERT**  
ALARM SOUNDS WHEN FOOD  
STARTS TO DEFROST  
112" TEMP. PROBE  
INCLUDES: (1) AA BATTERY

**MA-1665C**  
**FLOOD ALERT**  
DETECTS WATER OVERFLOW.  
112" SENSOR CABLE  
INCLUDES: (1) AA BATTERY



**MA-RT1**  
**REFRIG./FREEZER THERMOMETER**  
TEMPERATURE RANGE:  
-20F TO 80F (-30C TO 30C)  
**MA-OVN1**  
**OVEN THERMOMETER**  
TEMPERATURE RANGE:  
100F TO 550F (-50C TO 300C)



**MA-SUT45**  
**STICK-UP THERMOMETER**  
TEMPERATURE RANGE:  
-20F TO 120F (-30C TO 50C)



**MA-1001S**  
**SOLAR HORIZONTAL THERMOMETERS**  
TEMPERATURE RANGE:  
-58F TO 302F (50C TO 150C)  
F/C SWITCHABLE  
48" CAPILLARY  
1-1/2" X 1/2" DISPLAY

**MA-HRFT1**  
**HORIZONTAL REFRIG./FREEZER THERM.**  
TEMPERATURE RANGE:  
-40F TO 80F (-40C TO 30C)



**MA-RT8101**  
**SOLAR POWERED DIGITAL THERMOMETER**  
TEMPERATURE RANGE:  
INTERNAL SENSOR:  
32F TO 122F (0 TO 50C)  
EXTERNAL SENSOR:  
-58F TO 158F (-50 TO 70C)  
F/C SWITCHABLE  
MAX/MIN MEMORY

**MA-RT8100**  
**DUAL PROBE FRIDGE/FREEZER THERMOMETER WITH ALARM**  
TEMPERATURE RANGE:  
-40F TO 158F (-40C TO 70C)  
F/C SWITCHABLE  
ALARM – DUAL DISPLAY  
MIN/MAX MEMORY  
MAGNET, DESK STAND & TWO SUCTIONS CUPS



INCLUDES: (2) AAA BATTERIES

**REMOTE READING SOLAR THERMOMETERS**

TEMPERATURE RANGE:  
-58F TO 302F (-50C TO 150C)  
F/C SWITCHABLE  
ALL STAINLESS STEEL CASE

**MA-2001S**  
2" DIAL, FRONT FLANGE, W/48"  
**MA-2002S**  
2" DIAL, BACK FLANGE, W/48"  
**MA-2003S** 2" DIAL U-CLAMP, W/48" CAPILLARY



**REMOTE READING VAPOR TENSION THERMOMETERS**

TEMPERATURE RANGE:  
-40F TO 60F (-40C TO 15C)  
ALL STAINLESS STEEL CASE

**MA-50ABF**  
2" DIAL, BACK FLANGE, W/60" CAPILLARY  
**MA-60A**  
2-1/2" DIAL, STRAP MOUNT, W/60" CAPILLARY  
**MA-60AFF-A** 2" DIAL, FRONT FLANGE, W/60" CAPILLARY







**CLEAR VINYL TUBING**

**MA-CVT316** 3/16"ID X 100'  
**MA-CVT14** 1/4"ID X 100'  
**MA-CVT38** 3/8"ID X 100'  
**MA-CVT12** 1/2"ID X 100'

**MA-CVT58** 5/8"ID X 100'  
**MA-CVT34** 3/4"ID X 100'  
**MA-CVT78** 7/8"ID X 50'  
**MA-CVT1** 1"ID X 50'

**HEAVY DUTY BRAIDED TUBING**

**MA-HDT316** 3/16"ID X 50'  
**MA-HDT14** 1/4"ID X 50'  
**MA-HDT38** 3/8"ID X 50'  
**MA-HDT12** 1/2"ID X 50'  
**MA-HDT58** 5/8"ID X 50'  
**MA-HDT34** 3/4"ID X 50'  
**MA-HDT78** 7/8"ID X 50'  
**MA-HDT1** 1"ID X 50'



**5' SQUARE BLACK NEOPRENE TUBING**  
**MA-SNAT316-5**

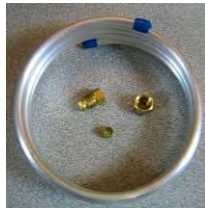
**BLACK NEOPRENE AIR TUBING**

**MA-NAT18-5** 1/8"ID X 5'  
**MA-NAT316-5** 3/16"ID X 5'  
**MA-NAT316** 3/16"ID X 100'



**ALUMINUM TUBING 5' KIT**  
INCLUDES FITTINGS

**MA-AT14-5** 1/4"  
**MA-AT18-5** 1/8"  
**MA-AT316-5** 3/16"  
**MA-AT38-5** 3/8"



**RED SILICONE RUBBER TUBING**

**MA-SRT18-5** 1/8"ID X 5/16"OD  
**MA-SRT316-5** 3/16"ID X 5/16"OD  
**MA-SRT14-5** 1/4"ID X 3/8"OD



5' LENGTH

**50' COILS ALUMINUM TUBING**  
WITHOUT FITTINGS

**MA-AT18** 1/8"OD **MA-AT38** 3/8"OD  
**MA-AT316** 3/16"OD **MA-AT716** 7/16"OD  
**MA-AT14** 1/4"OD **MA-AT12** 1/2"OD  
**MA-AT516** 5/16"OD **MA-AT58** 5/8"OD

ASTM: B483  
ALLOY: 3003  
WALL THICKNESS: .035

**MA-PT14 POLYETHYLENE TUBING**

**MA-PT14** 1/4"OD X 100'  
**MA-PT38** 3/8"OD X 100'  
**MA-PT516** 5/16"OD X 100'

**RUBBER DRAIN LINE ELBOWS**

**MA-38RUEL** 3/8" I.D.  
**MA-34RUEL** 3/4" I.D.



FOR QUICK DISCONNECT AND RECONNECT OF DRAIN LINE

**PILOT LIGHT (BREAKAWAY) FITTINGS**

**181SP-02** 1/8"  
**181SP-03** 3/16"  
**181SP-04** 1/4"  
**181SP-06** 3/8"

Nut with breakaway sleeve screws into gas control valves for furnaces, water heaters, etc.  
Fittings are sold individually.



### COMBO-HEX CLAMP

5/16" HEX HEAD COLLARED SCREW  
ZINC-PLATED CARBON STEEL SCREW  
300 STAINLESS BAND & HOUSING

10/BOX - SOLD PER BOX

- MA-5406BX** SIZE 06, 1/2" TO 7/8" DIA.
- MA-5408BX** SIZE 08, 9/16" TO 1" DIA.
- MA-5410BX** SIZE 10, 11/16" TO 1-1/16" DIA.
- MA-5412BX** SIZE 12, 11/16" TO 1-1/4" DIA.
- MA-5416BX** SIZE 16, 13/16" TO 1-1/2" DIA.
- MA-5420BX** SIZE 20, 13/16" TO 1-3/4" DIA.
- MA-5428BX** SIZE 28, 1-5/16" TO 2-1/4" DIA.
- MA-5432BX** SIZE 32, 1-9/16" TO 2-1/2" DIA.
- MA-56188** SIZE 188, 11" TO 12" DIA.



### MICRO GEAR HOSE CLAMP

5/16" HEX HEAD  
ZINC-PLATED CARBON STEEL SCREW  
300 STAINLESS BAND & HOUSING  
TINY BUT TOUGH

10/BOX - SOLD PER BOX

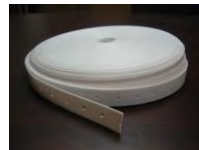
- MA-6202BX** SIZE 04, 1/4" TO 5/8" DIA.
- MA-6203BX** SIZE 06, 5/16" TO 7/8" DIA.
- MA-6204BX** SIZE 12, 3/4" TO 1-1/4" DIA.
- MA-6205BX** SIZE 16, 13/16" TO 1-1/2" DIA.
- MA-6206BX** SIZE 20, 7/8" TO 1-3/4" DIA.

### HANGING WIRE

HWA = TENSILE STRENGTH - 60,000 - 75,000  
HWG = TENSILE STRENGTH - 95,000 - 115,000

18 GAUGE

- MA-HWA02** 2LB. BLACK ANNEALED
- MA-HWA05** 5LB. BLACK ANNEALED
- MA-HWG02** 2LB. GALVANIZED WIRE
- MA-HWG05** 5LB. GALVANIZED WIRE



### PLASTIC HANGING STRAP

- MA-PH50** 3/4" X 50'
- MA-PH100** 3/4" X 100'

USED AS PIPE HANGER, DUCT HANGER, TUBING STRAP AND UTILITY STRAP

### PERFORATED STRAPS 20 GAUGE

- MA-GF1** 3/4" X 10' GALVANIZED
- MA-GF-50** 3/4" X 50' GAL.
- MA-GF-100** 3/4" X 100' GAL.
- MA-CF1** 3/4" X 10' COPPER
- MA-CF-50** 3/4" X 50' COPPER
- MA-CF-100** 3/4" X 100' COPPER



### J-HOOKS

20 GAUGE



25 PER BAG

### DRAIN PIPE HOLDER

- MA-J1500** 1-1/2"
- MA-J2000** 2"
- MA-J3000** 3"
- MA-J4000** 4"
- SWIVEL ADJ. HANGER**
- MA-SH1500** 1-1/2"
- MA-SH2000** 2"
- MA-SH3000** 3"
- MA-SH4000** 4"

The hangers hold pipe firmly and it eliminates noise from vibrating pipes. Includes nails to prevent soldering and eliminates hanger/pipe corrosion and electrolysis. The SH series has a rotating feature to hang pipe on an angle.

### 1-HOLE PIPE CLAMPS

HANGING THINWALL CONDUIT  
GALVANIZED

- MA-DT12** 1/2" ID (100/PKG)
- MA-DT34** 3/4" ID (100/PKG)
- MA-DT1** 1" ID (100/PKG)
- MA-DT114** 1-1/4" ID (50/PKG)
- MA-DT112** 1-1/2" ID (50/PKG)
- MA-DT2** 2" ID (25/PKG)



- MA-10DT12** 1/2" ID (10/PKG)
- MA-10DT34** 3/4" ID (10/PKG)
- MA-5DT1** 1" ID (5/PKG)
- MA-5DT114** 1-1/4" ID (5/PKG)
- MA-5DT112** 1-1/2" ID (5/PKG)

### 2-HOLE TUBING CLAMPS

HANGING THINWALL CONDUIT

- MA-BT12** 1/2" ID (100/PKG)
- MA-BT34** 3/4" ID (100/PKG)
- MA-BT1** 1" ID (100/PKG)
- MA-BT114** 1-1/4" ID (50/PKG)
- MA-BT112** 1-1/2" ID (50/PKG)
- MA-BT2** 2" ID (25/PKG)

GALVANIZED



HANGING COPPER TUBING

- MA-BC14** 1/4" ID (500/PKG)
- MA-BC38** 3/8" ID (500/PKG)
- MA-BC12** 1/2" ID (250/PKG)
- MA-BC34** 3/4" ID (150/PKG)
- MA-BC1** 1" ID (100/PKG)
- MA-BC114** 1-1/4" ID (50/PKG)
- MA-BC112** 1-1/2" ID (50/PKG)
- MA-BC2** 2" ID (25/PKG)

COPPER



### CONDUIT PIPE CLAMPS WITH BOLTS

- MA-K12** 1/2" ID (100/PKG) HANGING CONDUIT OR IRON PIPE
- MA-K34** 3/4" ID (100/PKG)
- MA-K1** 1" ID (100/PKG)
- MA-K114** 1-1/4" ID (100/PKG)
- MA-K112** 1-1/2" ID (100/PKG)
- MA-K2** 2" ID (50/PKG)
- MA-K212** 2-1/2" ID (50/PKG)
- MA-K3** 3" ID (25/PKG)



### WIRE PIPE HANGERS



9 GAUGE WIRE  
50/BOX

HANGING BLACK IRON PIPE

- MA-NW124** 1/2" X 4"
- MA-NW126** 1/2" X 6"
- MA-NW344** 3/4" X 4"
- MA-NW346** 3/4" X 6"
- MA-NW16** 1" X 6"

HANGING COPPER TUBE

- MA-NW124-C** 1/2" X 4"
- MA-NW126-C** 1/2" X 6"
- MA-NW344-C** 3/4" X 4"
- MA-NW346-C** 3/4" X 6"
- MA-NW16-C** 1" X 6"

**BUSS FUSES  
 DUAL ELEMENT  
 TIME DELAY, 250V,  
 CLASS RK5 FUSES**

PART #	AMP	PKG
MA-FRNR1	1	10
MA-FRNR1.25	1.25	10
MA-FRNR1.6	1.6	10
MA-FRNR2	2	10
MA-FRNR2.5	2.5	10
MA-FRNR3.2	3.2	10
MA-FRNR4	4	10
MA-FRNR5	5	10
MA-FRNR6.25	6.25	10
MA-FRNR8	8	10
MA-FRNR10	10	10
MA-FRNR12	12	10
MA-FRNR15	15	10
MA-FRNR20	20	10
MA-FRNR25	25	10
MA-FRNR30	30	10
MA-FRNR35	35	10
MA-FRNR40	40	10
MA-FRNR45	45	10
MA-FRNR50	50	10
MA-FRNR60	60	10
MA-FRNR70	70	5
MA-FRNR80	80	5
MA-FRNR90	90	5
MA-FRNR100	100	5
MA-FRNR110	110	1
MA-FRNR125	125	1
MA-FRNR150	150	1
MA-FRNR175	175	1
MA-FRNR200	200	1
MA-FRNR225	225	1

**BUSS FUSES  
 DUAL ELEMENT  
 TIME DELAY, 600V,  
 CLASS RK5 FUSES**

PART #	AMP	PKG
MA-FRSR1	1	10
MA-FRSR1.25	1.25	10
MA-FRSR1.6	1.6	10
MA-FRSR2	2	10
MA-FRSR2.5	2.5	10
MA-FRSR3.2	3.2	10
MA-FRSR4	4	10
MA-FRSR5	5	10
MA-FRSR6.25	6.25	10
MA-FRSR8	8	10
MA-FRSR10	10	10
MA-FRSR12	12	10
MA-FRSR15	15	10
MA-FRSR20	20	10
MA-FRSR25	25	10
MA-FRSR30	30	10
MA-FRSR35	35	10
MA-FRSR40	40	10
MA-FRSR45	45	10
MA-FRSR50	50	10
MA-FRSR60	60	10
MA-FRSR70	70	5
MA-FRSR80	80	5
MA-FRSR90	90	5
MA-FRSR100	100	5
MA-FRSR110	110	1
MA-FRSR125	125	1
MA-FRSR150	150	1
MA-FRSR175	175	1
MA-FRSR200	200	1
MA-FRSR225	225	1

**BUSS HEATING  
 & A/C FUSES  
 TIME DELAY, 250V  
 CURRENT LIMITING,  
 CLASS RK5,  
 UL LISTED,  
 CSA CERTIFIED**

PART #	AMP	PKG
MA-ECNR3.2	3.2	10
MA-ECNR5	5	10
MA-ECNR6.25	6.25	10
MA-ECNR10	10	10
MA-ECNR15	15	10
MA-ECNR20	20	10
MA-ECNR25	25	10
MA-ECNR30	30	10
MA-ECNR35	35	10
MA-ECNR40	40	10
MA-ECNR45	45	10
MA-ECNR50	50	10
MA-ECNR60	60	10
MA-ECNR70	70	5
MA-ECNR80	80	5
MA-ECNR100	100	5
MA-ECNR125	125	1
MA-ECNR200	200	1

**BUSS HEATING  
 & A/C FUSES  
 TIME DELAY, 600V  
 CURRENT LIMITING,  
 CLASS RK5,  
 UL LISTED,  
 CSA CERTIFIED**

PART #	AMP	PKG
MA-ECSR10	10	10
MA-ECSR15	15	10
MA-ECSR20	20	10
MA-ECSR25	25	10
MA-ECSR30	30	10
MA-ECSR35	35	10
MA-ECSR40	40	10
MA-ECSR45	45	10
MA-ECSR50	50	10
MA-ECSR60	60	10
MA-ECSR70	70	5
MA-ECSR80	80	5
MA-ECSR90	90	5
MA-ECSR100	100	5
MA-ECSR125	125	5
MA-ECSR150	150	1
MA-ECSR200	200	1

**BUSS ONE TIME FUSE 250 VOLT**

PART #	AMP	PKG
MA-NON1	1	10
MA-NON3	3	10
MA-NON6	6	10
MA-NON10	10	10
MA-NON15	15	10
MA-NON20	20	10
MA-NON25	25	10
MA-NON30	30	10
MA-NON35	35	10
MA-NON40	40	10



PART #	AMP	PKG
MA-NON45	45	10
MA-NON50	50	10
MA-NON60	60	10
MA-NON70	70	5
MA-NON80	80	5
MA-NON100	100	5
MA-NON150	150	1
MA-NON175	175	1
MA-NON200	200	1

**BUSS S PLUG FUSES  
 TIME DELAY, 250 VOLT**

PART #	AMP	PKG
MA-S1A	1	4
MA-S11/4A	1.25	4
MA-S16A	1.6	4
MA-S2A	2	4
MA-S21/2A	2.5	4
MA-S32	3.2	4
MA-S4A	4	4
MA-S5A	5	4



PART #	AMP	PKG
MA-S6A	6	4
MA-S61/4A	6.25	4
MA-S8A	8	4
MA-S10A	10	4
MA-S12A	12	4
MA-S15A	15	4
MA-S20A	20	4
MA-S25A	25	4
MA-S31A	30	4

PART #	AMP	PKG
MA-16SA	1.6	4
MA-21/2SA	2.5	4
MA-32SA	3.2	4
MA-61/4SA	6.25	4
MA-15SA	15	4
MA-20SA	20	4
MA-30SA	30	4



**TYPE S  
 FUSE  
 ADAPTOR**

**BUSS T PLUG FUSES  
 TIME DELAY, 250 VOLT**

PART #	AMP	PKG
MA-T1A	1	4
MA-T11/4A	1.25	4
MA-T16A	1.6	4
MA-T2A	2	4
MA-T21/2A	2.5	4
MA-T32A	3.2	4
MA-T4A	4	4
MA-T5A	5	4



PART #	AMP	PKG
MA-T61/4A	6.25	4
MA-T7A	7	4
MA-T8A	8	4
MA-T10A	10	4
MA-T12A	12	4
MA-T15A	15	4
MA-T20A	20	4
MA-T25A	25	4
MA-T30A	30	4

**BUSS SL & TL PLUG FUSES  
 TIME DELAY, 250 VOLT**

PART #	AMP	PKG
MA-SL15A	15	4
MA-SL20A	20	4
MA-SL25A	25	4
MA-SL30A	30	4



PART #	AMP	PKG
MA-TL15A	15	4
MA-TL20A	20	4
MA-TL25A	25	4
MA-TL30A	30	4

**BUSS W PLUG FUSES  
 TIME DELAY, 250 VOLT**



PART #	AMP	PKG
MA-W3A	3	4
MA-W5A	5	4
MA-W6A	6	4
MA-W8A	8	4
MA-W10A	10	4

### IN LINE FUSE HOLDER



- MA00014-1** (2/PKG)  
18 GAUGE WITH 15 AMP FUSE
- MA00030-1** (2/PKG)  
12 GAUGE WITH 30 AMP FUSE

### 1/4" X 1-1/4" CERAMIC FUSES

UL LISTED,  
CSA CERTIFICATION



PART #	AMP	VOLT	PKG
MA-ABC-1	1	250	5
MA-ABC-2	2	250	5
MA-ABC-3	3	250	5
MA-ABC-5	5	250	5
MA-ABC-6	6	250	5
MA-ABC-8	8	250	5
MA-ABC-10	10	250	5
MA-ABC-12	12	250	5
MA-ABC-15	15	250	5
MA-ABC-20	20	250	5
MA-ABC-30	30	250	5

### BLADE – TYPE FUSES

FAST ACTING  
32V, DC, UL LISTED



PART #	AMP	VOLT	PKG
MA-ATC2	2	32	5
MA-ATC3	3	32	5
MA-ATC4	4	32	5
MA-ATC5	5	32	5
MA-ATC7.5	7.5	32	5
MA-ATC10	10	32	5
MA-ATC15	15	32	5
MA-ATC20	20	32	5
MA-ATC25	25	32	5
MA-ATC30	30	32	5

### FUSE REDUCERS

- MA-263-R** FOR CLASS R FUSES  
250V, FUSE SIZE 30A  
DESIRED SIZE 60A
- MA-263** FOR CLASS H & K FUSES  
250V, FUSE SIZE 30A  
DESIRED SIZE 60A
- MA-213** FUSE REDUCER



### TIME DELAYS

- MA-30301** DELAY ON MAKE
- MA-30303** DELAY ON BREAK

### BUSSMANN BOX-COVER UNITS



Fuse Holder and Switch units provide both protection for the motor and the switch for turning the device on and off

10/BOX  
PRICE PER PIECE

- MA-SSU** COVER FOR 2-1/4" HANDY BOX
- MA-SSW** COVER FOR 2-3/4" SWITCH BOX
- MA-SSX** COVER FOR 4" OCTAGON BOX
- MA-SSY** COVER FOR 4" SQUARE BOX

- MA-SRU** COVER FOR 2-1/4" HANDY BOX
- MA-SRY** COVER FOR 4" SQUARE BOX

Fuse Holder and Plug-In Receptacle units provide convenient and unique protection for devices permanently connected to a circuit where switch control is desired. The grounding type Plug-In Receptacle uses either ordinary 2-prong attachment plug caps, a 2-prong parallel polarized cap with (1) wide prong, or a 3-prong grounding type cap. These units are intended for use on maximum 3/4HP and 125V

### 1/4" X 1-1/4" GLASS FUSES

TIME DELAY, 250V/32V - CSA CERTIFICATION

PART #	AMP	VOLT	PKG	PART #	AMP	VOLT	PKG
MA-MDL-1/4	1/4	250	5	MA-MDL-5	5	250	5
MA-MDL-1/2	1/2	250	5	MA-MDL-6	6	250	5
MA-MDL-3/4	3/4	250	5	MA-MDL-7	7	250	5
MA-MDL-1	1	250	5	MA-MDL-8	8	250	5
MA-MDL-1-1/4	1-1/4	250	5	MA-MDL-10	10	32	5
MA-MDL-2	2	250	5	MA-MDL-15	15	32	5
MA-MDL-2-1/2	2-1/2	250	5	MA-MDL-20	20	32	5
MA-MDL-3	3	250	5	MA-MDL-25	25	32	5
MA-MDL-3.2	3-2/10	250	5	MA-MDL-30	30	32	5
MA-MDL-4	4	250	5				

### CLASS G FUSE

TIME DELAY, 480V - UL LISTED, CSA CERTIFIED

PART #	AMP	VOLT	PKG	PART #	AMP	VOLT	PKG
MA-SC10	10	480	10	MA-SC35	35	480	10
MA-SC15	15	480	10	MA-SC40	40	480	10
MA-SC20	20	480	10	MA-SC45	45	480	10
MA-SC25	25	480	10	MA-SC50	50	480	10
MA-SC30	30	480	10	MA-SC60	60	480	10

### FUSE PULLER

#### MA-7519

OVERALL LENGTH 7"  
1/2" DIA & 3/8" DIA.  
CARTRIDGE TYPE FUSES  
0 TO 200A, 250V



### 1/4" X 1-1/4" GLASS FUSES

UL LISTED –  
CSA CERTIFICATION

PART #	AMP	VOLT	PKG
MA-AGC-1/32	1/32	250	5
MA-AGC-1/4	1/4	250	5
MA-AGC-1/2	1/2	250	5
MA-AGC-3/4	3/4	250	5
MA-AGC-1	1	250	5
MA-AGC-1-1/4	1-1/4	250	5
MA-AGC-1-1/2	1-1/2	250	5
MA-AGC-2	2	250	5
MA-AGC-2-1/2	2-1/2	250	5
MA-AGC-3	3	250	5
MA-AGC-4	4	250	5
MA-AGC-5	5	250	5
MA-AGC-6	6	250	5
MA-AGC-7	7	250	5
MA-AGC-8	8	250	5
MA-AGC-9	9	250	5
MA-AGC-10	10	250	5
MA-AGC-15	15	250	5
MA-AGC-20	20	250	5
MA-AGC-25	25	250	5
MA-AGC-30	30	250	5

### 1/32" X 1-1/2" SUPPLEMENTARY FUSES

TIME DELAY, 250V/500V  
UL LISTED, CSA CERTIFIED

PART #	AMP	VOLT	PKG
MA-FNM10	10	250	10
MA-FNM12	12	250	10
MA-FNM15	15	250	10
MA-FNM20	20	250	10
MA-FNM25	25	250	10
MA-FNM30	30	250	10
MA-FNM35	35	250	10
MA-FNM40	40	250	10
MA-FNQ10	10	500	10
MA-FNQ12	12	500	10
MA-FNQ15	15	500	10
MA-FNQ20	20	500	10
MA-FNQ25	25	500	10
MA-FNQ30	30	500	10





**WORLD SOURCE A/C  
 METAL DISCONNECTS**

UL & CUL LISTED  
 240 VAC, SINGLE PHASE, NEMA TYPE 3R,  
 OUTDOOR ENCLOSURE  
 12 PER CASE - SOLD PER CASE

- MA-WSFD30A** 30A, FUSED      **MA-WSNFD60A** 60A, NON-FUSED  
**MA-WSFD60A** 60A, FUSED



**A/C WHIPS**

KIT COMES WITH  
 2 REDUCING WASHERS  
 ASSEMBLED WITH  
 UL APPROVED COMPONENTS

**METAL FITTINGS:**

- MA-4012W**  
 1/2" X 4' #10 THHN WIRE  
 FITTINGS: 1 STRAIGHT + 1 90  
**MA-6012W**  
 1/2" X 6' #10 THHN WIRE  
 FITTINGS: 1 STRAIGHT + 1 90  
**MA-4034W**  
 3/4" X 4' #8 THHN WIRE  
 FITTINGS: 1 STRAIGHT + 1 90  
**MA-6034W**  
 3/4" X 6' #8 THHN WIRE  
 FITTINGS: 1 STRAIGHT + 1 90

**PLASTIC FITTINGS:**

- MA-P4012W**  
 1/2" X 4' #10 THHN WIRE  
 FITTINGS: 1 STRAIGHT + 1 90  
**MA-P6012W**  
 1/2" X 6' #10 THHN WIRE  
 FITTINGS: 1 STRAIGHT + 1 90  
**MA-P4034W**  
 3/4" X 4' #8 THHN WIRE  
 FITTINGS: 1 STRAIGHT + 1 90  
**MA-P6034W**  
 3/4" X 6' #8 THHN WIRE  
 FITTINGS: 1 STRAIGHT + 1 90



**A/C DISCONNECTS  
 WITH GFI OUTLET**

1/CASE - SOLD PER CASE  
**MA-UO65P010**



**3 PHASE  
 DISCONNECTS**

240 VAC, THREE PHASE,  
 NEMA TYPE 3R,  
 OUTDOOR ENCLOSURE  
 1/CASE - SOLD PER CASE  
 UL & CSL LISTED

- MA-60NF3** 60A, NON-FUSED      **MA-30F3** 30A, FUSED  
**MA-60F3** 60A, FUSED

**"EXTRA-BOOST"  
 HARD START KITS**

These units can increase starting torque from 300% to over 600% depending on the model used. They can be used on room A/C, all residential and commercial PSC A/C units and heat pumps. They can be used on units rated from 4,000 to 120,000 BTU's and they can be used on 120 through 288 VAC units. All models are UL recognized and are for low voltage and hard starting compressors. All units contain a start capacitor and relay for extra starting torque. Installs in seconds across run capacitor terminals.



- MA-XP5** BTU 4,000-60,000  
**MA-XP6** BTU 4,000-120,000  
**MA-XP8** BTU 4,000-120,000

Voltage: 120 230 Residential/Commercial

**NSA'S FURNACE  
 MOUNTING BLOCK**

- MA-68150**  
 PATENT #  
 8,262,054, 8,882,075  
 & D465022



**LIQUID TIGHT FITTINGS**

METALLIC AND NON-METALLIC



**METALLIC STRAIGHT  
 CONNECTOR**

- MA-E50A** 1/2" (10/BOX)  
**MA-4E50A** 1/2" (4/PKG)  
**MA-E75** 3/4" (25/BOX)  
**MA-4E75** 3/4" (4/PKG)  
**MA-E100** 1" (5/PKG)



**METALLIC 90 DEGREE  
 ELBOW**

- MA-E5090A** 1/2" (10/BOX)  
**MA-4E5090A** 1/2" (4/PKG)  
**MA-E7590** 3/4" (25/BOX)  
**MA-4E7590** 3/4" (4/PKG)  
**MA-E10090** 1" (5/BOX)



**NON-METALLIC  
 STRAIGHT CONNECTOR**

- MA-LC43D** 1/2" SCREW ON (10/BOX)  
**MA-4LC43D** 1/2" SCREW ON (4/PKG)  
**MA-LC43E** 3/4" SCREW ON (10/BOX)  
**MA-4LC43E** 3/4" SCREW ON (4/PKG)



**NON-METALLIC  
 90 DEGREE ELBOW**

- MA-LC20D** 1/2" SCREW ON (10/BOX)  
**MA-4LC20D** 1/2" SCREW ON (4/PKG)  
**MA-LC20E** 3/4" SCREW ON (10/BOX)  
**MA-4LC20E** 3/4" SCREW ON (4/PKG)



1 PIECE

**HEAT PUMP  
 STANDS**

- MA-HP3** 3" 1 PIECE  
**MA-HP6** 6" 1 PIECE



2 PIECES

- MA-HP3-2P** 3" 2 PIECE  
**MA-HP6-2P** 6" 2 PIECE

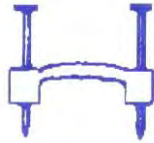


4" EXTENSION

- MA-EXT4**  
 4" EXTENSION FOR 2 PIECES HEAT  
 PUMP STANDS

- MA-E2PL-1** 1/2" WIDE 100/PKG  
2-NAIL STRAPS FITS 2 - 3 #12 NM  
CABLE, OR 2 #12 UF CABLE
- MA-E3PL-1** 3/4" WIDE 100/PKG  
2-NAIL STRAPS FITS 2 #8 NM & U  
CABLE, OR 3 #12 UF CABLE
- MA-E2PL25** 1/2" WIDE 25/PKG  
2-NAIL STRAPS FITS 2 - 3 #12 NM  
CABLE, OR 2 #12 UF CABLE
- MA-E3PL25** 3/4" WIDE 25/PKG  
2-NAIL STRAPS FITS 2 #8 NM & U  
CABLE, OR 3 #12 UF CABLE

### CABLE STRAPS



2 NAIL STRAP

### FLEXIBLE STEEL CONDUIT

TYPE ULC LIQUID TIGHT- UL APPROVED ONLY

- MA-10050** 1/2" X 100'  
**MA-10075** 3/4" X 100'  
**MA-10010** 1" X 100'



### LIQUID TIGHT

NON-METALLIC CONDUIT  
U.L. AND CSA APPROVED

- MA-15005** 1/2" X 100'  
**MA-15007** 3/4" X 100'  
**MA-15008** 1" X 100'



UV (SUNLIGHT) RESISTANT

### FITTINGS FOR BX-FLEXIBLE METAL CONDUIT

#### STEEL & ALUMINUM FLEX, AC & MC CABLE

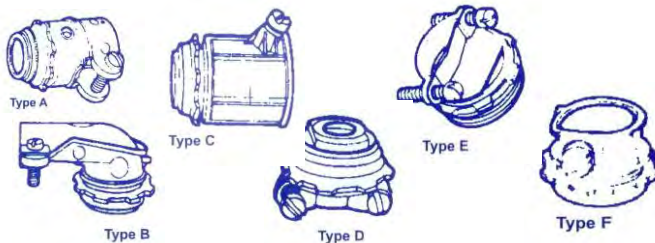
- MA-E42-1** 1/2" STRAIGHT SQUEEZE CONN.(TYPE A) 25/PKG.  
**MA-E42-2** 3/4" STRAIGHT SQUEEZE CONN.(TYPE A) 25/PKG.  
**MA-E42-3** 1" STRAIGHT SQUEEZE CONN.(TYPE A) 10/PKG.  
**MA-E42-4** 1-1/4" STRAIGHT SQUEEZE CONN.(TYPE A) 10/PKG.  
**MA-E42-5** 1-1/2" STRAIGHT SQUEEZE CONN.(TYPE A) 5/PKG.  
**MA-E110** 3/8" 90 DEGREE SET SCREW CONN.(TYPE B) 50/PKG.  
**MA-E110-1** 1/2" 90 DEGREE SET SCREW CONN.(TYPE B) 25/PKG.  
**MA-E110-2** 3/4" 90 DEGREE SET SCREW CONN.(TYPE B) 15/PKG.  
**MA-E110-3** 1" 90 DEGREE SET SCREW CONN.(TYPE B) 10/PKG.  
**MA-E110-4** 1-1/4" 90 DEGREE SET SCREW CONN.(TYPE B) 5/PKG.  
**MA-E110-5** 1-1/2" 90 DEGREE SET SCREW CONN.(TYPE B) 1/PKG.  
**MA-E57** 3/8" COMBINATION CONNECTOR (TYPE D) 100/PKG.  
**MA-4E421** 1/2" STRAIGHT SQUEEZE CONN. (TYPE A) 4/PKG.  
**MA-4E422** 3/4" STRAIGHT SQUEEZE CONN. (TYPE B) 4/PKG.  
**MA-4E110** 3/8" 90 DEGREE SET SCREW CONN.(TYPE B) 4/PKG.  
**MA-4E1101** 1/2" 90 DEGREE SET SCREW CONN.(TYPE B) 4/PKG.  
**MA-4E1102** 3/4" 90 DEGREE SET SCREW CONN.(TYPE B) 4/PKG.  
**MA-4E57** 3/8" COMBINATION CONNECTOR (TYPE D) 4/PKG.

#### NM CABLE

- MA-E104A** 3/4" CABLE CONNECTOR (TYPE E) 50/PKG.  
**MA-E105** 1" CABLE CONNECTOR (TYPE E) 25/PKG.  
**MA-E106** 1-1/4" CABLE CONNECTOR (TYPE E) 10/PKG.  
**MA-E107** 1-1/2" CABLE CONNECTOR (TYPE E) 10/PKG.  
**MA-E51** 3/8" ROMEX CONNECTOR (TYPE E) 100/PKG  
**MA-4E104A** 3/4" CABLE CONNECTOR (TYPE E) 4/PKG.  
**MA-4E51** 3/8" ROMEX CONNECTOR (TYPE E) 4/PKG

#### FLEX, MC & AC CABLE

- MA-E58** 3/8" SET SCREW CONNECTOR (TYPE F) 100/PKG.  
**MA-E48** 1/2" SET SCREW CONNECTOR (TYPE F) 25/PKG.  
**MA-4E58** 3/8" SET SCREW CONNECTOR (TYPE F) 4/PKG.  
**MA-4E48** 1/2" SET SCREW CONNECTOR (TYPE F) 4/PKG.



### FLEXIBLE STEEL CONDUIT

TYPE EFC-NON-UL LIQUID TIGHT

- MA-20050** 1/2" X 100'  
**MA-20075** 3/4" X 100'  
**MA-20010** 1" X 100'



MEETS JIC REQUIREMENTS. DOES NOT  
CONTAIN CONTINUOUS COPPER GROUND.

ALUMINUM (GREENFIELD)

- MA-30038** 3/8" X 100'  
**MA-30050** 1/2" X 100'  
**MA-30075** 3/4" X 100'

### FLEXIBLE CONDUIT

ALUMINUM AND STEEL

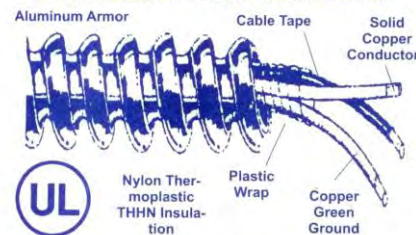
STEEL (GREENFIELD)

- MA-40038** 3/8" X 100'  
**MA-40050** 1/2" X 100'  
**MA-40075** 3/4" X 100'



### TYPE MC ALUMINUM CLAD CABLE

WITH INSULATED GREEN GROUND WIRE



- MA-MC42C**  
14/2 - 100'  
**MA-MC22C**  
12/2 - 100'  
**MA-MC43C**  
14/3 - 100'  
**MA-MC23C**  
12/3 - 100'

MA-LINE TYPE MC CABLE IS USED IN COMMERCIAL, INDUSTRIAL AND UTILITY APPLICATIONS WHERE SPACE AND EASE OF INSTALLATION IS CRITICAL. MC CABLE HANDLES POWER SERVICE, LIGHTING, CONTROL AND SIGNAL CIRCUITS. MAY BE USED IN CABLE TRAYS, APPROVED RACEWAYS, OR AS AN OPEN RUN OF CABLE. MADE OF ALUMINUM INTERLOCKED ARMOR, SOLID COPPER CONDUCTORS.

600 VOLTS - THHN CONDUCTORS WITH GREEN INSULATED GROUND. MEETS U.L. 1569.

### ANTI-SHORT BUSHINGS

FOR FLEX - AC - MC CABLE



- MA-E0PL** FITS CABLE SIZE: 14/2, 14/3, 12/2  
TRADE SIZE: 5/16" 100/PKG  
**MA-E1PL** FITS CABLE SIZE: 14/4, 12/3, 6/1, 4/1  
TRADE SIZE: 3/8" 100/PKG  
**MA-E2PL** FITS CABLE SIZE: 12/4, 10/2, 10/3, 2/1  
TRADE SIZE: 7/16" 50/PKG  
**MA-E3PL** FITS CABLE SIZE: 10/4, 8/2, 8/3, 1/1  
TRADE SIZE: 1/2" 50/PKG  
**MA-E4PL** FITS CABLE SIZE: 8/4, 6/2, 6/3, 6/4, 4/2, 4/3  
TRADE SIZE: 3/4" 10/PKG

### FITTINGS FOR RIGID CONDUIT

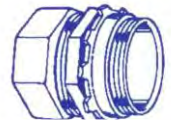
- MA-E376** 1/2" OFFSET NIPPLES (TYPE A) 20/PKG.
- MA-E377** 3/4" OFFSET NIPPLES (TYPE A) 10/PKG.
- MA-E378** 1" OFFSET NIPPLES (TYPE A) 10/PKG.
- MA-E379** 1-1/4" OFFSET NIPPLES (TYPE A) 10/PKG.
- MA-E380** 1-1/2" OFFSET NIPPLES (TYPE A) 10/PKG.
- MA-E96-1CG** 1/2" LB TYPE THREADED OVAL CONDUIT BODY WITH COVER AND GASKET (TYPE B) 10/PKG.
- MA-E96-2CG** 3/4" LB TYPE THREADED OVAL CONDUIT BODY WITH COVER AND GASKET (TYPE B) 10/PKG.
- MA-E96-4CG** 1-1/4" LB TYPE THREADED OVAL CONDUIT BODY WITH COVER AND GASKET (TYPE B) 2/PKG.
- MA-E96-5CG** 1-1/2" LB TYPE THREADED OVAL CONDUIT BODY WITH COVER AND GASKET (TYPE B) 2/PKG.
- MA-E900** 1/2" SLB SERVICE ENTRANCE ELBOW (TYPE C) 10/PKG.
- MA-E901** 3/4" SLB SERVICE ENTRANCE ELBOW (TYPE C) 10/PKG.
- MA-E902** 1" SLB SERVICE ENTRANCE ELBOW (TYPE C) 5/PKG.
- MA-E903** 1-1/4" SLB SERVICE ENTRANCE ELBOW (TYPE C) 5/PKG.
- MA-E904** 1-1/2" SLB SERVICE ENTRANCE ELBOW (TYPE C) 2/PKG.
- MA-E59** 1/2" CONDUIT LOCKNUTS FULLY REVERSIBLE (TYPE D) 200/PKG.
- MA-E80** 3/4" CONDUIT LOCKNUTS FULLY REVERSIBLE (TYPE D) 100/PKG.
- MA-E81** 1" CONDUIT LOCKNUTS FULLY REVERSIBLE (TYPE D) 100/PKG.
- MA-E82** 1-1/4" CONDUIT LOCKNUTS FULLY REVERSIBLE (TYPE D) 50/PKG.
- MA-E83** 1-1/2" CONDUIT LOCKNUTS FULLY REVERSIBLE (TYPE D) 50/PKG.
- MA-4E59** 1/2" CONDUIT LOCKNUTS FULLY REVERSIBLE (TYPE D) 4/PKG.
- MA-25E59** 1/2" CONDUIT LOCKNUTS FULLY REVERSIBLE (TYPE D) 25/PKG.
- MA-25E80** 3/4" CONDUIT LOCKNUTS FULLY REVERSIBLE (TYPE D) 25/PKG.
- MA-E52PL** 1/2" PLASTIC INSULATED BUSHING (TYPE E) 100/PKG.
- MA-E60PL** 3/4" PLASTIC INSULATED BUSHING (TYPE E) 100/PKG.
- MA-E61PL** 1" PLASTIC INSULATED BUSHING (TYPE E) 50/PKG.
- MA-E65PL** 1-1/4" PLASTIC INSULATED BUSHING (TYPE E) 25/PKG.
- MA-E69PL** 1-1/2" PLASTIC INSULATED BUSHING (TYPE E) 25/PKG.
- MA-E298-21** 3/4" X 1/2" REDUCING WASHER (TYPE F) 250/PKG.
- MA-E298-31** 1" X 1/2" REDUCING WASHER (TYPE F) 100/PKG.
- MA-E298-32** 1" X 3/4" REDUCING WASHER (TYPE F) 100/PKG.
- MA-E298-41** 1-1/4" X 1/2" REDUCING WASHER (TYPE F) 200/PKG.
- MA-E298-42** 1-1/4" X 3/4" REDUCING WASHER (TYPE F) 200/PKG.
- MA-E298-43** 1-1/4" X 1" REDUCING WASHER (TYPE F) 200/PKG.
- MA-E298-51** 1-1/2" X 1/2" REDUCING WASHER (TYPE F) 100/PKG.
- MA-E298-52** 1-1/2" X 3/4" REDUCING WASHER (TYPE F) 100/PKG.
- MA-E298-53** 1-1/2" X 1" REDUCING WASHER (TYPE F) 100/PKG.
- MA-E298-54** 1-1/2" X 1-1/4" REDUCING WASHER (TYPE F) 100/PKG.
- MA-25E29821** 3/4" X 1/2" REDUCING WASHER (TYPE F) 25/PKG.
- MA-25E29831** 1" X 1/2" REDUCING WASHER (TYPE F) 25/PKG.
- MA-25E29832** 1" X 3/4" REDUCING WASHER (TYPE F) 25/PKG.



### FITTINGS FOR THINWALL CONDUIT (EMT)

#### COMPRESSION TYPE – RAIN TIGHT

- MA-E21** 1/2" CONNECTOR (TYPE A) 50/PKG.
- MA-E23** 3/4" CONNECTOR (TYPE A) 25/PKG.
- MA-E25** 1" CONNECTOR (TYPE A) 15/PKG.
- MA-E27** 1-1/4" CONNECTOR (TYPE A) 5/PKG.
- MA-E29** 1-1/2" CONNECTOR (TYPE A) 10/PKG.
- MA-E22** 1/2" CONNECTOR (TYPE B) 50/PKG.
- MA-E24** 3/4" CONNECTOR (TYPE B) 25/PKG.
- MA-E26** 1" CONNECTOR (TYPE B) 15/PKG.
- MA-E28** 1-1/4" CONNECTOR (TYPE B) 10/PKG.
- MA-E30** 1-1/2" CONNECTOR (TYPE B) 10/PKG.
- MA-4E21** 1/2" CONNECTOR (TYPE A) 4/PKG.
- MA-4E23** 3/4" CONNECTOR (TYPE A) 4/PKG.
- MA-4E22** 1/2" CONNECTOR (TYPE B) 4/PKG.
- MA-4E24** 3/4" CONNECTOR (TYPE B) 4/PKG.



TYPE A



TYPE B

#### SET SCREW TYPE – CONCRETE TIGHT

- MA-E121** 1/2" CONNECTOR (TYPE C) 50/PKG.
- MA-E123** 3/4" CONNECTOR (TYPE C) 25/PKG.
- MA-E125** 1" CONNECTOR (TYPE C) 20/PKG.
- MA-E127** 1-1/4" CONNECTOR (TYPE C) 5/PKG.
- MA-E129** 1-1/2" CONNECTOR (TYPE C) 10/PKG.
- MA-E122** 1/2" COUPLING (TYPE D) 50/PKG.
- MA-E124** 3/4" COUPLING (TYPE D) 25/PKG.
- MA-E126** 1" COUPLING (TYPE D) 15/PKG.
- MA-E128** 1-1/4" COUPLING (TYPE D) 20/PKG.
- MA-E130** 1-1/2" COUPLING (TYPE D) 10/PKG.
- MA-4E121** 1/2" CONNECTOR (TYPE C) 4/PKG.
- MA-4E123** 3/4" CONNECTOR (TYPE C) 4/PKG.
- MA-4E122** 1/2" COUPLING (TYPE D) 4/PKG.
- MA-4E124** 3/4" COUPLING (TYPE D) 4/PKG.



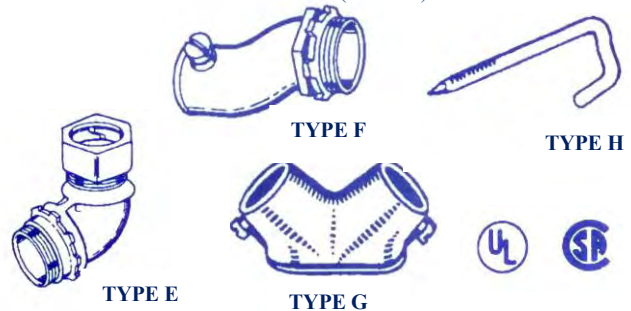
TYPE C



TYPE D

#### CONNECTORS, ELBOWS & STRAPS

- MA-E2390-2** 3/4" 90 DEG. EMT CONNECTOR (TYPE E) 20/PKG
- MA-E37-1** 1/2" OFFSET CONNECTOR EMT TO BOX (TYPE F) 20/PKG
- MA-E37-2** 3/4" OFFSET CONNECTOR EMT TO BOX (TYPE F) 20/PKG
- MA-E37-3** 1" OFFSET CONNECTOR EMT TO BOX (TYPE F) 20/PKG
- MA-E144-1** 1/2" EMT PULL ELBOWS (TYPE G) 10/PKG
- MA-E144-2** 3/4" EMT PULL ELBOWS (TYPE G) 5/PKG
- MA-2E1441** 1/2" EMT PULL ELBOWS (TYPE G) 2/PKG
- MA-2E1442** 3/4" EMT PULL ELBOWS (TYPE G) 2/PKG
- MA-E55** 1/2" STEEL DRIVE STRAPS (TYPE H) 100/PKG
- MA-E7S** 3/4" STEEL DRIVE STRAPS (TYPE H) 100/PKG
- MA-E10S** 1" STEEL DRIVE STRAPS (TYPE H) 100/PKG



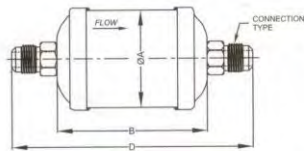
- D109** (2/PKG) INLET: 1/4" OUTLET: 1/4"  
3/4" X 8-1/2" NON-DIRECTIONAL DRIER
- D110** (2/PKG) INLET: 1/4" OUTLET: 1/4"  
3/4" X 8-3/4" DIRECTIONAL FUSED ENDS DRIER
- D111** (2/PKG) INLET: 1/4" OUTLET: 1/4" OR CAP  
1" X 8-3/4" DIRECTIONAL CHARGING DRIER
- D112** (2/PKG) INLET: 5/16" OUTLET: 5/16"  
1" X 10-3/4" DIRECTIONAL STEP DOWN DRIER
- D113** (2/PKG) INLET: (2)1/4" OUTLET: 1/4"  
1" X 8-3/4" DIRECTIONAL DOUBLE INLET DRIER
- D114** (2/PKG) INLET: MULTIPLE OUTLET: 1/4"  
1" X 9" DIRECTIONAL FUSED ENDS DRIER



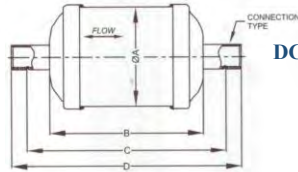
**COPPER SPUN DRIERS**  
**DRIERS CONTAIN**  
**XH-9 DESICCANT**  
PRICE PER PACKAGE  
2 PER PACKAGE

- D115** (2/PKG)  
INLET: 1/4"ID, 1/4"OD & 1/4" FLARE OUTLET: 1/4"  
3/4" X 9" DIRECTIONAL CHARGING DRIER

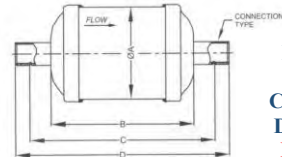
**LIQUID LINE FILTER DRIER**  
**DCH SERIES**  
**(SOLID CORE TYPE)**



**DCH DRIER WITH SAE CONNECTION DIMENSIONS DRAWING 1**



**DCH BI-FLOW DRIER WITH ODF CONNECTION DIMENSIONS DRAWING 2**



**DCH DRIER WITH ODF CONNECTION DIMENSIONS DRAWING 3**

**INTERNAL ASSEMBLY**  
**CORE TYPE**  
**ODS TYPE CONNECTION**  
**COPPER**  
**MAXIMUM WORKING**  
**PRESSURE**  
45 BAR (653 PSIG)  
**SAE TYPE CONNECTION**  
**NICKEL PLATED**  
**STEEL**

**DCH052F**  
1/4" **SAE** LIQUID LINE FILTER DRIER  
1/4" **SAE** CONNECTION,  
4.88" OVERALL LENGTH  
**DRAWING 1**

**DCHBF083S**  
3/8" **ODF** LIQUID LINE FILTER DRIER  
**BI-FLOW**, 3/8" **ODF** CONNECTION,  
5.78" OVERALL LENGTH

**DCHBF163S**  
3/8" **ODF** LIQUID LINE FILTER DRIER  
**BI-FLOW**, 3/8" **ODF** CONNECTION,  
6.57" OVERALL LENGTH  
**DRAWING 2**

**DCH032S**  
1/4" **ODF** LIQUID LINE FILTER DRIER  
1/4" **ODF** CONNECTION,  
4.61" OVERALL LENGTH

**DCH033S**  
3/8" **ODF** LIQUID LINE FILTER DRIER  
3/8" **ODF** CONNECTION,  
4.61" OVERALL LENGTH  
**DRAWING 3**

**DCH052S**  
1/4" **ODF** LIQUID LINE FILTER DRIER  
1/4" **ODF** CONNECTION,  
5.04" OVERALL LENGTH

**DCH053S**  
3/8" **ODF** LIQUID LINE FILTER DRIER  
3/8" **ODF** CONNECTION,  
5.04" OVERALL LENGTH

**DCH082S**  
1/4" **ODF** LIQUID LINE FILTER DRIER  
1/4" **ODF** CONNECTION,  
5.86" OVERALL LENGTH

**DCH083S**  
3/8" **ODF** LIQUID LINE FILTER DRIER  
3/8" **ODF** CONNECTION,  
5.86" OVERALL LENGTH

**DCH163S**  
3/8" **ODF** LIQUID LINE FILTER DRIER  
3/8" **ODF** CONNECTION,  
6.77" OVERALL LENGTH

**DCH164S**  
1/2" **ODF** LIQUID LINE FILTER DRIER  
1/2" **ODF** CONNECTION,  
6.77" OVERALL LENGTH  
**DRAWING 3**

**DCH165S**  
5/8" **ODF** LIQUID LINE FILTER DRIER  
35/8" **ODF** CONNECTION,  
6.77" OVERALL LENGTH

**DCH303S**  
3/8" **ODF** LIQUID LINE FILTER DRIER  
3/8" **ODF** CONNECTION,  
9.45" OVERALL LENGTH

**DCH304S**  
1/2" **ODF** LIQUID LINE FILTER DRIER  
1/2" **ODF** CONNECTION,  
9.45" OVERALL LENGTH

**DCH305S**  
5/8" **ODF** LIQUID LINE FILTER DRIER  
5/8" **ODF** CONNECTION,  
9.45" OVERALL LENGTH

**DCH306S**  
3/4" **ODF** LIQUID LINE FILTER DRIER  
3/4" **ODF** CONNECTION,  
9.45" OVERALL LENGTH

**DCH307S**  
7/8" **ODF** LIQUID LINE FILTER DRIER  
7/8" **ODF** CONNECTION,  
10.39" OVERALL LENGTH

**DCH309S**  
1-1/8" **ODF** LIQUID LINE FILTER DRIER  
1-1/8" **ODF** CONNECTION,  
10.39" OVERALL LENGTH  
**DRAWING 3**





**VALVE CORE TOOL**

**AF2199P** (2/PKG.)

PLASTIC STORAGE  
 INCLUDES 10 CORES  
 IN EACH TOOL  
 (20 CORES/PKG.)

PRICE PER PACKAGE

**VALVE CORE TOOL**

**AF2200-M** (1/PKG.)

METAL STORAGE  
 INCLUDES 6 CORES

PRICE PER PACKAGE



**COPPER TUBE EXTENSIONS  
 WITH 1/4" FITTING**



5/PKG-PRICE/PKG

- AF1000** 1/8"OD
- AF1100** 3/16"OD
- AF1200** 1/4"OD
- AF1300** 5/16"OD
- AF1400** 3/8"OD

50/PKG-PRICE/PKG

- AF1000-50** 1/8"OD
- AF1100-50** 3/16"OD
- AF1200-50** 1/4"OD
- AF1300-50** 5/16"OD
- AF1400-50** 3/8"OD

PRICE PER PACKAGE

**CAP AND REPLACEMENT  
 VALVE CORES**



AF2000 – AF2000BX  
 PRICE PER PACKAGE

**1/4"SAE GASKET  
 SEAL CAP  
 WITH  
 CORE REMOVER**

- AF2000** (10/PKG)
- AF2000BX** (100/PKG)



AF2100  
 AF2100-25  
 AF2100-100  
 PRICE PER PACKAGE

**1/4" VALVE CORE**

**COPPER TUBE EXTENSIONS**

**WITH 5/16" FITTING**  
 5/16" MALE FLARE –  
 COPPER EXTENTION 2" LONG



- AF11516**  
 3/16"ODS X 1/4"ODF (3/PKG)
- AF12516**  
 1/4"ODS X 5/16"ODF (3/PKG)
- AF13516**  
 5/16"ODS X 3/8"ODF (3/PKG)

PRICE PER PACKAGE

**COPPER TUBE EXTENSIONS  
 WITH MULTI-STEPS**



- AF1500** (3/PKG)
- AF1500-50** (50/PKG)  
 1/8"OD, 3/16", 1/4" AND 5/16"  
 ODF MULTI STEPS
- AF1600** (3/PKG)
- AF1600-50** (50/PKG)  
 3/16"OD X 1/8"ID, 1/4" AND 3/8"  
 ODF MULTI STEPS

PRICE PER PACKAGE

**MULTI-STEP  
 BRASS BODY**



- AF1900** (3/PKG)
- AF1900-50** (50/PKG)  
 1/8"OD X 3/16", 1/4",  
 OR 5/16"ODF STEPS

PRICE PER PACKAGE



**MA-SVOM18**  
 18MM/.75"  
 SOLENOID VALVE  
 OPERATING MAGNET

**COPPER SOLDER  
 TEES  
 WITH 1/4"  
 MALE FLARE**  
 PRICE PER PACKAGE



- |   |                                     |
|---|-------------------------------------|
| <b>AF3134</b> (3/PKG)<br>1/4" ODS X 5/16" ODF | <b>AF3140</b> (1/PKG)<br>5/8" ODS   |
| <b>AF3135</b> (3/PKG)<br>5/16" ODS X 3/8" ODF | <b>AF3142</b> (1/PKG)<br>3/4" ODS   |
| <b>AF3136</b> (3/PKG)<br>3/8" ODS X 1/2" ODF  | <b>AF3144</b> (1/PKG)<br>7/8" ODS   |
| <b>AF3138</b> (3/PKG)<br>1/2" ODS             | <b>AF3148</b> (1/PKG)<br>1-1/8" ODS |



**SWIVEL  
 FLARE  
 CONNECTION**

- AF1700** (3/PKG) **AF1700-50** (50/PKG)  
 1/4" FE SAE SWIVEL NUT ON BRANCH  
**AF1800** (3/PKG) **AF1800-50** (50/PKG)  
 1/4" FE SAE SWIVEL NUT ON RUN

**5/16" ADAPTER FOR  
 R-410 SYSTEMS & MINI SPLITS**  
**MA-19173**



**REFRIGERANT RETENTION  
 CONTROL VALVE**

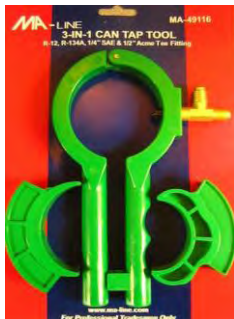


- MA-33002**  
 1/4" FLF X 1/4" FLM  
**MA-33005**  
 5/16" FLF X 5/16" FLM  
**MA-33008**  
 5/16" FLF X 1/4" FLM

**4 IN 1 VACUUM/CHARGE  
 VALVE AND CORE TOOL**



- MA-18975**  
 1/4" WITH SIDE PORT  
**MA-18985**  
 5/16" WITH SIDE PORT







**MA-49116**  
 3 IN 1  
 12 OZ. CAN TAP

**ADJUSTABLE  
 LINE TAP VALVE**

- MA-V1**  
 1/4", 5/16", & 3/8" OD  
**MA-V2**  
 1/2" & 5/8" OD



PART #	DESCRIPTION	PKG.	MALLEABLE BLACK IRON PIPE FITTINGS	PART #	DESCRIPTION	PKG.
MA-12U	1/2" UNION	50	 UNION  REDUCING COUPLING  COUPLING  45 ELBOW  90 ELBOW  90 STREET ELBOW  TEE  CAP  REDUCING TEE  PLUG  BUSHING	MA-12T	1/2" TEE	60
MA-34U	3/4" UNION	35		MA-34T	3/4" TEE	35
MA-1U	1" UNION	20		MA-1T	1" TEE	20
MA-12CPLG	1/2" COUPLING	120		MA-341212T	3/4" X 1/2" X 1/2" TEE	50
MA-34CPLG	3/4" COUPLING	75		MA-343412T	3/4" X 3/4" X 1/2" TEE	40
MA-1CPLG	1" COUPLING	50		MA-1238BG	1/2" X 3/8" HEX BUSHING	300
MA-3412CPLG	3/4" X 1/2" RED. COUPLING	90		MA-3412BG	3/4" X 1/2" HEX BUSHING	150
MA-112CPLG	1" X 1/2" RED. COUPLING	30		MA-112BG	1" X 1/2" HEX BUSHING	100
MA-134CPLG	1" X 3/4" RED. COUPLING	50		MA-134BG	1" X 3/4" HEX BUSHING	100
MA-1290EL	1/2" 90 DEGREE ELBOW	100		MA-12CAP	1/2" CAP	150
MA-3490EL	3/4" 90 DEGREE ELBOW	35		MA-34CAP	3/4" CAP	80
MA-190EL	1" 90 DEGREE ELBOW	30		MA-1CAP	1" CAP	50
MA-1245EL	1/2" 45 DEGREE ELBOW	100		MA-12PLG	1/2" PLUG	300
MA-3445EL	3/4" 45 DEGREE ELBOW	60	MA-34PLG	3/4" PLUG	180	
MA-145EL	1" 45 DEGREE ELBOW	30	MA-1PLG	1" PLUG	120	
MA-1290STEL	1/2" 90 DEG. STR. ELBOW	90	SPECIFICATIONS: MATERIAL: ASTM A-197 DIMENSIONS: ANSI B16.3 & ANSI B16.14 THREADS: ANSI B1.20.1			
MA-3490STEL	3/4" 90 DEG. STR. ELBOW	35				
MA-190STEL	1" 90 DEG. STR. ELBOW	30				



**PLASTIC  
NIPPLE TRAYS  
INCLUDES DRAIN  
HOLES**

- MA-T1005 1/2" NIPPLE TRAY
- MA-T1007 3/4" NIPPLE TRAY
- MA-T1010 1" NIPPLE TRAY
- MA-T1057 1/2" & 3/4" NIPPLE TRAY

**CARDBOARD NIPPLE TRAYS  
WITH ASSORTED NIPPLES**

- MA-1266T 1/2" (66 PCS)  
6EA. OF CLOSE TO 6"
- MA-3466T 3/4" (66 PCS)  
6EA. OF CLOSE TO 6"
- MA-0160T 1" (60 PCS)  
6EA. OF CLOSE TO 6"



**WELDED STEEL  
BLACK IRON PIPE NIPPLES**

PIPE NIPPLES MEET THE ASTM A733  
SPECIFICATIONS

PART #	DESCRIPTION	PKG.	PART #	DESCRIPTION	PKG.	PART #	DESCRIPTION	PKG.
MA-BN12CL	1/2" X CL-1-1/8"	25	MA-BN34CL	3/4" X CL-1-3/8"	25	MA-BN1CL	1" X CL-1-1/2"	25
MA-BN12112	1/2" X 1-1/2"	25	MA-BN34112	3/4" X 1-1/2"	25	MA-BN12	1" X 2"	25
MA-BN122	1/2" X 2"	25	MA-BN342	3/4" X 2"	25	MA-BN1212	1" X 2-1/2"	25
MA-BN12212	1/2" X 2-1/2"	25	MA-BN34212	3/4" X 2-1/2"	25	MA-BN13	1" X 3"	25
MA-BN123	1/2" X 3"	25	MA-BN343	3/4" X 3"	25	MA-BN1312	1" X 3-1/2"	25
MA-BN12312	1/2" X 3-1/2"	25	MA-BN34312	3/4" X 3-1/2"	25	MA-BN14	1" X 4"	25
MA-BN124	1/2" X 4"	25	MA-BN344	3/4" X 4"	25	MA-BN1412	1" X 4-1/2"	25
MA-BN12412	1/2" X 4-1/2"	25	MA-BN34412	3/4" X 4-1/2"	25	MA-BN15	1" X 5"	25
MA-BN125	1/2" X 5"	25	MA-BN345	3/4" X 5"	25	MA-BN1512	1" X 5-1/2"	25
MA-BN12512	1/2" X 5-1/2"	25	MA-BN34512	3/4" X 5-1/2"	25	MA-BN16	1" X 6"	25
MA-BN126	1/2" X 6"	25	MA-BN346	3/4" X 6"	25	MA-BP112	1" X 12"	1
MA-BP1212	1/2" X 12"	1	MA-BP3412	3/4" X 12"	1	MA-BP118	1" X 18"	1
MA-BP1218	1/2" X 18"	1	MA-BP3418	3/4" X 18"	1	MA-BP124	1" X 24"	1
MA-BP1224	1/2" X 24"	1	MA-BP3424	3/4" X 24"	1	MA-BP130	1" X 30"	1
MA-BP1230	1/2" X 30"	1	MA-BP3430	3/4" X 30"	1	MA-BP136	1" X 36"	1
MA-BP1236	1/2" X 36"	1	MA-BP3436	3/4" X 36"	1	MA-BP148	1" X 48"	1
MA-BP1248	1/2" X 48"	1	MA-BP3448	3/4" X 48"	1	MA-BP160	1" X 60"	1
MA-BP1260	1/2" X 60"	1	MA-BP3460	3/4" X 60"	1			



Type "A"



Type "B"



Type "C"



Type "D"



Type "E"



Type "F"



Type "G"



Type "H"



Type "I"



Type "J"



Type "K"



Type "L"



Type "M"



Type "N"

**SCHEDULE 40 PVC FITTINGS**

PART #	DESCRIPTION	PKG.	TYPE	PART #	DESCRIPTION	PKG.	TYPE
MA-30105	COUPLING 1/2" SLIP X SLIP	100	A	MA-450007	PLUG 3/4" MPT	50	
MA-30107	COUPLING 3/4" SLIP X SLIP	50	A	MA-30275	REDUCING BUSHING 3/4" SLIP X 1/2" SLIP	100	J
MA-30110	COUPLING 1" SLIP X SLIP	50	A	MA-437131	REDUCING BUSHING 1" SLIP X 3/4" SLIP	100	J
MA-30605	ELBOW 45° 1/2" SLIP X SLIP	50	B	MA-436074	REDUCING MPT ADAPTOR 3/4" SLIP X 1/2" MPT	100	H
MA-30607	ELBOW 45° 3/4" SLIP X SLIP	50	B	MA-32905	STREET ELBOW 90° 1/2" SLIP	50	M
MA-30610	ELBOW 45° 1" SLIP X SLIP	50	B	MA-32907	STREET ELBOW 90° 3/4" SLIP	50	M
MA-30705	ELBOW 90° 1/2" SLIP X SLIP	50	C	MA-409010	STREET ELBOW 90° 1" SLIP	50	M
MA-30707	ELBOW 90° 3/4" SLIP X SLIP	50	C	MA-33905	ELBOW 90° 1/2" SLIP X FPT	50	K
MA-30710	ELBOW 90° 1" SLIP X SLIP	50	C	MA-33907	ELBOW 90° 3/4" SLIP X FPT	50	K
MA-31318	1/2" CLEAN OUT TEE	1	L	MA-33910	ELBOW 90° 1" SLIP X FPT	50	K
MA-31348	3/4" CLEAN OUT TEE	1	L	MA-401020	TEE 2" SLIP X SLIP X SLIP	25	D
MA-31405	TEE 1/2" SLIP X SLIP X SLIP	50	D	MA-407074	ELBOW 90 3/4" FPT X 1/2"SLIP	50	K
MA-31407	TEE 3/4" SLIP X SLIP X SLIP	50	D	MA-410005	STREET ELBOW 90° 1/2" MPT X 1/2"SLIP	50	M
MA-31410	TEE 1" SLIP X SLIP X SLIP	50	D	MA-410007	STREET ELBOW 90° 3/4" MPT X 3/4"SLIP	50	M
MA-30305	ADAPTOR 1/2" SLIP X FPT	100	E	MA-410010	STREET ELBOW 90° 1" MPT X 1"SLIP	50	M
MA-30307	ADAPTOR 3/4" SLIP X FPT	50	E	MA-410101	STREET ELBOW 90° 3/4" MPT X 1/2"SLIP	50	M
MA-30311	ADAPTOR 1" SLIP X FPT	50	E	MA-457005	UNION 1/2" SLIP X SLIP	10	N
MA-30357	REDUCING FPT ADAPTOR 1/2" SLIP X 3/4"FPT	50	F	MA-457007	UNION 3/4" SLIP X SLIP	10	N
MA-30405	ADAPTOR 1/2" SLIP X MPT	100	G	MA-457010	UNION 1" SLIP X SLIP	10	N
MA-30407	ADAPTOR 3/4" SLIP X MPT	50	G	MA-457012	UNION 1-1/4" SLIP X SLIP	5	N
MA-30410	ADAPTOR 1" SLIP X MPT	50	G	MA-457015	UNION 1-1/2" SLIP X SLIP	5	N
MA-30457	REDUCING MPT ADAPTOR 1/2" SLIP X 3/4"MPT	50	H	MA-457020	UNION 2" SLIP X SLIP	2	N
MA-30155	CAP 1/2" SLIP	100	I				
MA-30157	CAP 3/4" SLIP	50	I				
MA-30158	CAP 1" SLIP	50	I				
MA-448007	CAP 3/4" FPT	100					

PART #	DESCRIPTION	PKG.	TYPE	SCHEDULE 40 PVC-DWV FITTINGS	PART #	DESCRIPTION	PKG.	TYPE
MA-70115	COUPLING 1-1/2"	100	A	 Type "A"  Type "B"  Type "C"  Type "D"  Type "E"  Type "F"  Type "G"  Type "H"  Type "I"	MA-417025	45° ELBOW 2-1/2" SCH 40	10	H
MA-70120	COUPLING 2"	100	A		MA-70630	45° ELBOW 3"	20	H
MA-429025	COUPLING 2-1/2" SCH 40	10	A		MA-D321040	45° ELBOW 4"	100	H
MA-70130	COUPLING 3"	60	A		MA-73815	90° LONG SWEEP ELBOW 1-1/2"	50	F
MA-D100040	COUPLING 4"	25	A		MA-73820	90° LONG SWEEP ELBOW 2"	25	F
MA-70121	RED. COUPLING 2" X 1-1/2"	25	B		MA-73830	90° LONG SWEEP ELBOW 3"	10	F
MA-70132	RED. COUPLING 3" X 2"	20	B		MA-D304040	90° LONG SWEEP ELBOW 4"	5	F
MA-D102420	RED. COUPLING 4" X 2"	10	B		MA-71115	TEE 1-1/2"	100	G
MA-D102422	RED. COUPLING 4" X 3"	10	B		MA-71120	TEE 2"	35	G
MA-70116	REPAIR COUPLING 1-1/2"	25	C		MA-401025	TEE SCH. 40 2-1/2"	10	G
MA-70122	REPAIR COUPLING 2"	25	C		MA-71130	TEE 3"	30	G
MA-70133	REPAIR COUPLING 3"	10	C		MA-D400040	TEE 4"	5	G
MA-D130040	REPAIR COUPLING 4"	5	C		MA-70221	BUSHING SCH. 40 2" X 1-1/2"	50	I
MA-70151	CAP SCH. 40 1-1/2"	25	D		MA-437292	BUSHING SCH. 40 2-1/2" X 2"	10	I
MA-70152	CAP SCH. 40 2"	25	D		MA-70231	BUSHING SCH. 40 3" X 1-1/2"	30	I
MA-447025	CAP SCH. 40 2-1/2"	10	D		MA-70232	BUSHING 3" X 2"	30	I
MA-70153	CAP SCH. 40 3"	10	D		MA-437339	BUSHING SCH. 40 3" X 2-1/2"	10	I
MA-447040	CAP SCH. 40 4"	5	D		MA-D309015	LONG SWP. STR. ELB. 1-1/2"	10	
MA-72815	90° ELBOW 1-1/2"	100	E		MA-D309020	LONG SWP. STR. ELB. 2"	25	
MA-72820	90° ELBOW 2"	50	E		MA-D309030	LONG SWP. STR. ELB. 3"	20	
MA-406025	90° ELBOW SCH 40 2-1/2"	10	E	MA-D323015	45° STR. ELB. 1-1/2"	100		
MA-72830	90° ELBOW 3"	25	E	MA-D323020	45° STR. ELB. 2"	50		
MA-D300040	90° ELBOW 3"	10	E	MA-D323030	45° STR. ELB. 3"	20		
MA-70615	45° ELBOW 1-1/2"	100	H	MA-207013	NIPPLE TBE SCH. 80 3/4" X CL	50		
MA-70620	45° ELBOW 2"	50	H	MA-207030	NIPPLE TBE SCH. 80 3/4" X 3"	50		

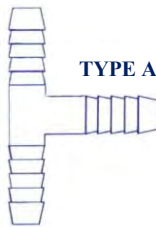
**NYLON FITTINGS**

**ASSORTED NYLON FITTING  
RACK  
MA-105NYFIT**

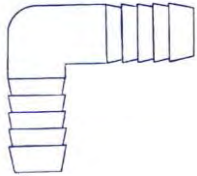
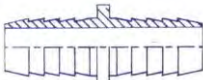
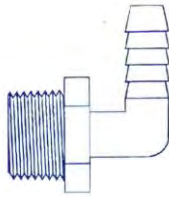
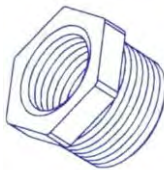
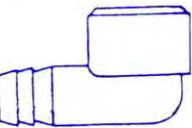
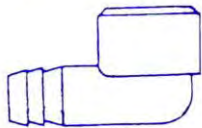
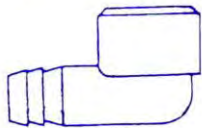
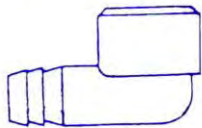
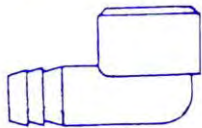
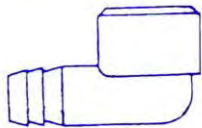
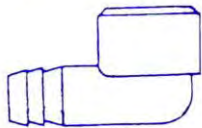


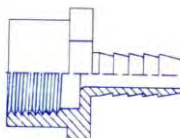
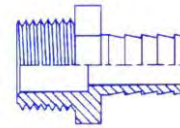
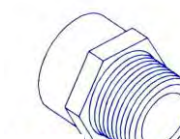
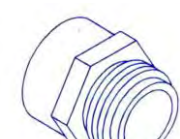
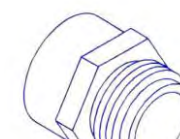
PART #	DESCRIPTION	QTY/PKG	QUANTITY
MA-12032	CONNECTOR 3/8" BARB	5	6
MA-12033	CONNECTOR 1/2" BARB	4	4
MA-12034	CONNECTOR 5/8" BARB	4	6
MA-12035	CONNECTOR 3/4" BARB	3	4
MA-22006	ADAPTER 3/8"BARB X 1/2"MPT	8	4
MA-22010	ADAPTER 1/2"BARB X 3/4"MPT	4	6
MA-22012	ADAPTER 5/8"BARB X 3/4"MPT	4	6
MA-22013	ADAPTER 3/8"BARB X 3/4"MPT	4	6
MA-22014	ADAPTER 3/4"BARB X 3/4"MPT	4	6
MA-22117	ELBOW 1/2"BARB X 3/4"MPT	4	5
MA-22120	ELBOW 5/8"BARB X 3/4"MPT	4	5
MA-22122	ELBOW 3/4"BARB X 3/4"MPT	4	5
MA-22153	ELBOW 1/2"BARB	4	4
MA-22154	ELBOW 5/8"BARB	4	6
MA-22157	TEE 1/4"BARB	5	4
MA-22160	TEE 1/2"BARB	4	4
MA-22161	TEE 5/8"BARB	4	6
MA-22186	ADAPTER 5/8"BARB X 3/4"FPT	4	5
MA-22187	ADAPTER 3/4"BARB X 3/4"FPT	4	4
MA-22192	ELBOW 3/4"BARB	3	5
MA-22286	TEE 3/4"BARB	4	4
CR-RACK	COUNTER DISPLAY RACK	1	1
CR-HOOKS	HOOKS FOR COUNTER	1	21

PART #	DESCRIPTION	PKG.	TYPE
MA-22157	TEE 1/4" BARB	5	A
MA-22157-25	TEE 1/4" BARB	25	A
MA-22157-50	TEE 1/4" BARB	50	A
MA-22157-100	TEE 1/4" BARB	100	A
MA-22159	TEE 3/8" BARB	5	A
MA-22159-25	TEE 3/8" BARB	25	A
MA-22159-50	TEE 3/8" BARB	50	A
MA-22159-100	TEE 3/8" BARB	100	A
MA-22160	TEE 1/2" BARB	4	A
MA-22160-25	TEE 1/2" BARB	25	A
MA-22160-50	TEE 1/2" BARB	50	A
MA-22160-100	TEE 1/2" BARB	100	A
MA-22161	TEE 5/8" BARB	4	A
MA-22161-25	TEE 5/8" BARB	25	A
MA-22161-50	TEE 5/8" BARB	50	A
MA-22161-100	TEE 5/8" BARB	100	A
MA-22286	TEE 3/4" BARB	4	A
MA-22286-25	TEE 3/4" BARB	25	A
MA-22286-50	TEE 3/4" BARB	50	A
MA-22286-100	TEE 3/4" BARB	100	A
MA-22289	TEE 3/4" X 1/2" X 1/2" BARB	4	A
MA-22289-25	TEE 3/4" X 1/2" X 1/2" BAR	25	A



PART #	DESCRIPTION	PKG.	TYPE
MA-22289-50	TEE 3/4" X 1/2" X 1/2" BARB	50	A
MA-22289-100	TEE 3/4" X 1/2" X 1/2" BARB	100	A
MA-22290	TEE 1/2"MPT X 1/2"B X 1/2" B	4	A
MA-22290-25	TEE 1/2"MPT X 1/2"B X 1/2" B	25	A
MA-22290-50	TEE 1/2"MPT X 1/2"B X 1/2" B	50	A
MA-22290-100	TEE 1/2"MPT X 1/2"B X 1/2" B	100	A
MA-TN5044	NIPPLE 1/4"MPT X 1/4"MPT	4	O
MA-TN5044-25	NIPPLE 1/4"MPT X 1/4"MPT	25	O
MA-TN5044-50	NIPPLE 1/4"MPT X 1/4"MPT	50	O
MA-TN5044-100	NIPPLE 1/4"MPT X 1/4"MPT	100	O
MA-TN5066	NIPPLE 3/8"MPT X 3/8"MPT	4	O
MA-TN5066-25	NIPPLE 3/8"MPT X 3/8"MPT	25	O
MA-TN5066-50	NIPPLE 3/8"MPT X 3/8"MPT	50	O
MA-TN5066-100	NIPPLE 3/8"MPT X 3/8"MPT	100	O
MA-TN5088	NIPPLE 1/2"MPT X 1/2"MPT	4	O
MA-TN5088-25	NIPPLE 1/2"MPT X 1/2"MPT	25	O
MA-TN5088-50	NIPPLE 1/2"MPT X 1/2"MPT	50	O
MA-TN5088-100	NIPPLE 1/2"MPT X 1/2"MPT	100	O
MA-TN51212	NIPPLE 3/4"MPT X 3/4"MPT	4	O
MA-TN51212-25	NIPPLE 3/4"MPT X 3/4"MPT	25	O
MA-TN51212-50	NIPPLE 3/4"MPT X 3/4"MPT	50	O
MA-TN51212-100	NIPPLE 3/4"MPT X 3/4"MPT	100	O

PART #	DESCRIPTION	PKG. TYPE	NYLON FITTINGS		PART #	DESCRIPTION	PKG. TYPE
MA-22151	ELBOW 1/4" BARB	5 B		<p><b>TYPE B</b></p>	MA-22122	ELBOW 3/4" B X 3/4" MPT	4 D
MA-22151-25	ELBOW 1/4" BARB	25 B			MA-22122-25	ELBOW 3/4" B X 3/4" MPT	25 D
MA-22151-50	ELBOW 1/4" BARB	50 B			MA-22122-50	ELBOW 3/4" B X 3/4" MPT	50 D
MA-22151-100	ELBOW 1/4" BARB	100 B			MA-22122-100	ELBOW 3/4" B X 3/4" MPT	100 D
MA-22152	ELBOW 3/8" BARB	5 B			MA-22065	ELBOW 1/2" B X 3/4" FPT	4 G
MA-22152-25	ELBOW 3/8" BARB	25 B			MA-22065-25	ELBOW 1/2" B X 3/4" FPT	25 G
MA-22152-50	ELBOW 3/8" BARB	50 B			MA-22065-50	ELBOW 1/2" B X 3/4" FPT	50 G
MA-22152-100	ELBOW 3/8" BARB	100 B			MA-22065-100	ELBOW 1/2" B X 3/4" FPT	100 G
MA-22153	ELBOW 1/2" BARB	4 B			MA-22064	ELBOW 5/8" B X 3/4" FPT	4 G
MA-22153-25	ELBOW 1/2" BARB	25 B			MA-22064-25	ELBOW 5/8" B X 3/4" FPT	25 G
MA-22153-50	ELBOW 1/2" BARB	50 B	MA-22064-50	ELBOW 5/8" B X 3/4" FPT	50 G		
MA-22153-100	ELBOW 1/2" BARB	100 B	MA-22064-100	ELBOW 5/8" B X 3/4" FPT	100 G		
MA-22154	ELBOW 5/8" BARB	4 B		<p><b>TYPE C</b></p>	MA-22066	ELBOW 3/4" B X 3/4" FPT	4 G
MA-22154-25	ELBOW 5/8" BARB	25 B			MA-22066-25	ELBOW 3/4" B X 3/4" FPT	25 G
MA-22154-50	ELBOW 5/8" BARB	50 B			MA-22066-50	ELBOW 3/4" B X 3/4" FPT	50 G
MA-22154-100	ELBOW 5/8" BARB	100 B	MA-22066-100	ELBOW 3/4" B X 3/4" FPT	100 G		
MA-22192	ELBOW 3/4" BARB	3 B		<p><b>TYPE D</b></p>	MA-22031	CONNECTOR 1/4" BARB	5 C
MA-22192-25	ELBOW 3/4" BARB	25 B			MA-22031-25	CONNECTOR 1/4" BARB	25 C
MA-22192-50	ELBOW 3/4" BARB	50 B			MA-22031-50	CONNECTOR 1/4" BARB	50 C
MA-22192-100	ELBOW 3/4" BARB	100 B			MA-22031-100	CONNECTOR 1/4" BARB	100 C
MA-22263	ELBOW 1/4" B X 1/4" MPT	5 D		<p><b>TYPE E</b></p>	MA-12032	CONNECTOR 3/8" BARB	5 C
MA-22263-25	ELBOW 1/4" B X 1/4" MPT	25 D			MA-12032-25	CONNECTOR 3/8" BARB	25 C
MA-22263-50	ELBOW 1/4" B X 1/4" MPT	50 D			MA-12032-50	CONNECTOR 3/8" BARB	50 C
MA-22263-100	ELBOW 1/4" B X 1/4" MPT	100 D			MA-12032-100	CONNECTOR 3/8" BARB	100 C
MA-22264	ELBOW 1/4" B X 3/8" MPT	4 D		<p><b>TYPE F</b></p>	MA-12033	CONNECTOR 1/2" BARB	4 C
MA-22264-25	ELBOW 1/4" B X 3/8" MPT	25 D			MA-12033-25	CONNECTOR 1/2" BARB	25 C
MA-22264-50	ELBOW 1/4" B X 3/8" MPT	50 D			MA-12033-50	CONNECTOR 1/2" BARB	50 C
MA-22264-100	ELBOW 1/4" B X 3/8" MPT	100 D	MA-12033-100	CONNECTOR 1/2" BARB	100 C		
MA-22112	ELBOW 3/8" B X 3/8" MPT	4 D		<p><b>TYPE G</b></p>	MA-12034	CONNECTOR 5/8" BARB	4 C
MA-22112-25	ELBOW 3/8" B X 3/8" MPT	25 D			MA-12034-25	CONNECTOR 5/8" BARB	25 C
MA-22112-50	ELBOW 3/8" B X 3/8" MPT	50 D			MA-12034-50	CONNECTOR 5/8" BARB	50 C
MA-22112-100	ELBOW 3/8" B X 3/8" MPT	100 D			MA-12034-100	CONNECTOR 5/8" BARB	100 C
MA-22113	ELBOW 3/8" B X 1/2" MPT	4 D		<p><b>TYPE G</b></p>	MA-12035	CONNECTOR 3/4" BARB	3 C
MA-22113-25	ELBOW 3/8" B X 1/2" MPT	25 D			MA-12035-25	CONNECTOR 3/4" BARB	25 C
MA-22113-50	ELBOW 3/8" B X 1/2" MPT	50 D			MA-12035-50	CONNECTOR 3/4" BARB	50 C
MA-22113-100	ELBOW 3/8" B X 1/2" MPT	100 D			MA-12035-100	CONNECTOR 3/4" BARB	100 C
MA-22114	ELBOW 3/8" B X 3/4" MPT	4 D		<p><b>TYPE G</b></p>	MA-12052	BUSHING 1/2" MPT X 3/8" FPT	4 E
MA-22114-25	ELBOW 3/8" B X 3/4" MPT	25 D			MA-12052-25	BUSHING 1/2" MPT X 3/8" FPT	25 E
MA-22114-50	ELBOW 3/8" B X 3/4" MPT	50 D			MA-12052-50	BUSHING 1/2" MPT X 3/8" FPT	50 E
MA-22114-100	ELBOW 3/8" B X 3/4" MPT	100 D			MA-12052-100	BUSHING 1/2" MPT X 3/8" FPT	100 E
MA-22116	ELBOW 1/2" B X 1/2" MPT	4 D		<p><b>TYPE G</b></p>	MA-12053	BUSHING 3/4" MPT X 1/2" FPT	4 E
MA-22116-25	ELBOW 1/2" B X 1/2" MPT	25 D			MA-12053-25	BUSHING 3/4" MPT X 1/2" FPT	25 E
MA-22116-50	ELBOW 1/2" B X 1/2" MPT	50 D			MA-12053-50	BUSHING 3/4" MPT X 1/2" FPT	50 E
MA-22116-100	ELBOW 1/2" B X 1/2" MPT	100 D			MA-12053-100	BUSHING 3/4" MPT X 1/2" FPT	100 E
MA-22117	ELBOW 1/2" B X 3/4" MPT	4 D		<p><b>TYPE G</b></p>	MA-12054	BUSHING 1" MPT X 3/4" FPT	4 E
MA-22117-25	ELBOW 1/2" B X 3/4" MPT	25 D			MA-12054-25	BUSHING 1" MPT X 3/4" FPT	25 E
MA-22117-50	ELBOW 1/2" B X 3/4" MPT	50 D			MA-12054-50	BUSHING 1" MPT X 3/4" FPT	50 E
MA-22117-100	ELBOW 1/2" B X 3/4" MPT	100 D			MA-12054-100	BUSHING 1" MPT X 3/4" FPT	100 E
MA-22120	ELBOW 5/8" B X 3/4" MPT	4 D		<p><b>TYPE G</b></p>	MA-12055	BUSHING 1-1/4" MPT X 1" FPT	1 E
MA-22120-25	ELBOW 5/8" B X 3/4" MPT	25 D			MA-12056	BUSHING 1-1/2" MPT X 1-1/4" FPT	1 E
MA-22120-50	ELBOW 5/8" B X 3/4" MPT	50 D			MA-12057	BUSHING 2" MPT X 1-1/2" FPT	1 E
MA-22120-100	ELBOW 5/8" B X 3/4" MPT	100 D					

PART #	DESCRIPTION	PKG.	TYPE	NYLON FITTINGS	PART #	DESCRIPTION	PKG.	TYPE
<b>MA-22182</b>	ADAPTOR 1/2"B X 1/2" FPT	4	F	 <p>TYPE F</p>	<b>MA-22013</b>	ADAPTOR 3/8"B X 3/4" MPT	4	H
<b>MA-22182-25</b>	ADAPTOR 1/2"B X 1/2" FPT	25	F		<b>MA-22013-25</b>	ADAPTOR 3/8"B X 3/4" MPT	25	H
<b>MA-22182-50</b>	ADAPTOR 1/2"B X 1/2" FPT	50	F		<b>MA-22013-50</b>	ADAPTOR 3/8"B X 3/4" MPT	50	H
<b>MA-22182-100</b>	ADAPTOR 1/2"B X 1/2" FPT	100	F		<b>MA-22013-100</b>	ADAPTOR 3/8"B X 3/4" MPT	100	H
<b>MA-22185</b>	ADAPTOR 1/2"B X 3/4" FPT	4	F		<b>MA-22010</b>	ADAPTOR 1/2"B X 3/4" MPT	4	H
<b>MA-22185-25</b>	ADAPTOR 1/2"B X 3/4" FPT	25	F		<b>MA-22010-25</b>	ADAPTOR 1/2"B X 3/4" MPT	25	H
<b>MA-22185-50</b>	ADAPTOR 1/2"B X 3/4" FPT	50	F		<b>MA-22010-50</b>	ADAPTOR 1/2"B X 3/4" MPT	50	H
<b>MA-22185-100</b>	ADAPTOR 1/2"B X 3/4" FPT	100	F		<b>MA-22010-100</b>	ADAPTOR 1/2"B X 3/4" MPT	100	H
<b>MA-22186</b>	ADAPTOR 5/8"B X 3/4" FPT	4	F		<b>MA-22012</b>	ADAPTOR 5/8"B X 3/4" MPT	4	H
<b>MA-22186-25</b>	ADAPTOR 5/8"B X 3/4" FPT	25	F		<b>MA-22012-25</b>	ADAPTOR 5/8"B X 3/4" MPT	25	H
<b>MA-22186-50</b>	ADAPTOR 5/8"B X 3/4" FPT	50	F	<b>MA-22012-50</b>	ADAPTOR 5/8"B X 3/4" MPT	50	H	
<b>MA-22186-100</b>	ADAPTOR 5/8"B X 3/4" FPT	100	F	<b>MA-22012-100</b>	ADAPTOR 5/8"B X 3/4" MPT	100	H	
<b>MA-22187</b>	ADAPTOR 3/4"B X 3/4" FPT	4	F	<b>MA-22014</b>	ADAPTOR 3/4"B X 3/4" MPT	4	H	
<b>MA-22187-25</b>	ADAPTOR 3/4"B X 3/4" FPT	25	F	<b>MA-22014-25</b>	ADAPTOR 3/4"B X 3/4" MPT	25	H	
<b>MA-22187-50</b>	ADAPTOR 3/4"B X 3/4" FPT	50	F	<b>MA-22014-50</b>	ADAPTOR 3/4"B X 3/4" MPT	50	H	
<b>MA-22187-100</b>	ADAPTOR 3/4"B X 3/4" FPT	100	F	<b>MA-22014-100</b>	ADAPTOR 3/4"B X 3/4" MPT	100	H	
<b>MA-22002</b>	ADAPTOR 1/4"B X 1/4" MPT	10	H	 <p>TYPE I</p>	<b>MA-12010</b>	ADAPTOR 3/4"MGHT X 3/4" FPT	4	K
<b>MA-22002-25</b>	ADAPTOR 1/4"B X 1/4" MPT	25	H		<b>MA-12010-25</b>	ADAPTOR 3/4"MGHT X 3/4" FPT	25	K
<b>MA-22002-50</b>	ADAPTOR 1/4"B X 1/4" MPT	50	H		<b>MA-12010-50</b>	ADAPTOR 3/4"MGHT X 3/4" FPT	50	K
<b>MA-22002-100</b>	ADAPTOR 1/4"B X 1/4" MPT	100	H		<b>MA-12010-100</b>	ADAPTOR 3/4"MGHT X 3/4" FPT	100	K
<b>MA-22003</b>	ADAPTOR 1/4"B X 3/8" MPT	10	H	 <p>TYPE J</p>	<b>MA-12004</b>	ADAPTOR 3/4"MGHT X 3/4" MPT	4	I
<b>MA-22003-25</b>	ADAPTOR 1/4"B X 3/8" MPT	25	H		<b>MA-12004-25</b>	ADAPTOR 3/4"MGHT X 3/4" MPT	25	I
<b>MA-22003-50</b>	ADAPTOR 1/4"B X 3/8" MPT	50	H		<b>MA-12004-50</b>	ADAPTOR 3/4"MGHT X 3/4" MPT	50	I
<b>MA-22003-100</b>	ADAPTOR 1/4"B X 3/8" MPT	100	H		<b>MA-12004-100</b>	ADAPTOR 3/4"MGHT X 3/4" MPT	100	I
<b>MA-22005</b>	ADAPTOR 3/8"B X 3/8" MPT	10	H	 <p>TYPE K</p>	<b>MA-12060</b>	ADAPTOR 3/4"MGHT X 3/4" FGHT	3	K
<b>MA-22005-25</b>	ADAPTOR 3/8"B X 3/8" MPT	25	H		<b>MA-12060-25</b>	ADAPTOR 3/4"MGHT X 3/4" FGHT	25	K
<b>MA-22005-50</b>	ADAPTOR 3/8"B X 3/8" MPT	50	H		<b>MA-12060-50</b>	ADAPTOR 3/4"MGHT X 3/4" FGHT	50	K
<b>MA-22005-100</b>	ADAPTOR 3/8"B X 3/8" MPT	100	H		<b>MA-12060-100</b>	ADAPTOR 3/4"MGHT X 3/4" FGHT	100	K
<b>MA-22006</b>	ADAPTOR 3/8"B X 1/2" MPT	8	H	 <p>TYPE L</p>	<b>MA-22048</b>	ADAPTOR 3/4"FGHT X 5/8"B	4	L
<b>MA-22006-25</b>	ADAPTOR 3/8"B X 1/2" MPT	25	H		<b>MA-22048-25</b>	ADAPTOR 3/4"FGHT X 5/8"B	25	L
<b>MA-22006-50</b>	ADAPTOR 3/8"B X 1/2" MPT	50	H		<b>MA-22048-50</b>	ADAPTOR 3/4"FGHT X 5/8"B	50	L
<b>MA-22006-100</b>	ADAPTOR 3/8"B X 1/2" MPT	100	H		<b>MA-22048-100</b>	ADAPTOR 3/4"FGHT X 5/8"B	100	L
<b>MA-22007</b>	ADAPTOR 1/2"B X 3/8" MPT	8	H	<b>MA-22049</b>	ADAPTOR 3/4"FGHT X 3/4"B	4	L	
<b>MA-22007-25</b>	ADAPTOR 1/2"B X 3/8" MPT	25	H	<b>MA-22049-25</b>	ADAPTOR 3/4"FGHT X 3/4"B	25	L	
<b>MA-22007-50</b>	ADAPTOR 1/2"B X 3/8" MPT	50	H	<b>MA-22049-50</b>	ADAPTOR 3/4"FGHT X 3/4"B	50	L	
<b>MA-22007-100</b>	ADAPTOR 1/2"B X 3/8" MPT	100	H	<b>MA-22049-100</b>	ADAPTOR 3/4"FGHT X 3/4"B	100	L	
<b>MA-22009</b>	ADAPTOR 1/2"B X 1/2" MPT	6	H	<b>MA-12013</b>	ADAPTOR 3/4"MPT X 3/4"FGHT	4	J	
<b>MA-22009-25</b>	ADAPTOR 1/2"B X 1/2" MPT	25	H	<b>MA-12013-25</b>	ADAPTOR 3/4"MPT X 3/4"FGHT	25	J	
<b>MA-22009-50</b>	ADAPTOR 1/2"B X 1/2" MPT	50	H	<b>MA-12013-50</b>	ADAPTOR 3/4"MPT X 3/4"FGHT	50	J	
<b>MA-22009-100</b>	ADAPTOR 1/2"B X 1/2" MPT	100	H	<b>MA-12013-100</b>	ADAPTOR 3/4"MPT X 3/4"FGHT	100	J	

### FERNCO FLEXIBLE COUPLINGS



CI = CAST IRON  
PL = PLASTIC  
ST = STEEL  
C = COPPER  
L = LEAD

**MA-1056-075**  
3/4" CI/PL/C/ST/L TO 3/4" & 1"  
CI/PL/C/ST/L  
**MA-1056-100**  
1" CI/PL/C/ST/L TO 1-1/4"  
CI/PL/C/ST/L  
**MA-1056-22**  
2" CI/PL/C/ST/L TO 2"  
CI/PL/C/ST/L

**MA-1056-33**  
3" CI/PL/C/ST/L TO 3"  
CI/PL/C/ST/L  
**MA-1056-44**  
4" CI/PL/C/ST/L TO 4"  
CI/PL/C/ST/L  
**MA-1056-32**  
3" CI/PL/C/ST/L TO 2"  
CI/PL/C/ST/L

**DO NOT LOOK DIRECTLY INTO THE LIGHTS**

**3W COB  
HEAD LAMP  
MA-HML3C**

**FUNCTIONS :**  
HIGH - LOW - STROBE  
ROTATES 180°

**INCLUDES :**  
(3) AAA BATTERIES



**2W COB  
TOGGLE STYLE  
LIGHT SWITCH  
MA-465**

**INCLUDES :**  
(3) AAA BATTERIES  
MAGNET & VELCRO TAPE



**MA-492B  
BLACK**



**MA-492W  
WHITE**

**2W COB EURO STYLE LIGHT SWITCH**

**INCLUDES :** (4) AAA BATTERIES, MAGNET & VELCRO TAPE



**LED/COB FLASHLIGHT**

**MA-FL1438**



**FUNCTION :**  
HEAD  
ROTATES TO  
90° ANGLE

**INCLUDES :**  
(4) AAA  
BATTERIES

**3W COB  
WORK LIGHT  
MA-FL1063C**

**FUNCTIONS :**  
ROTATES 360°  
BLACK METAL BRACKET  
HAS TWO MAGNETS

**INCLUDES :**  
(4) AAA BATTERIES



**1W LED FLASHLIGHT &  
3W COB WORKLIGHT**

**MA-FL296C**



**1W LED FLASHLIGHT &  
3W COB WORKLIGHT**

**180° ADJ. HEAD - STRONG MAGNET ON BASE & HOOK**

**MA-FL6287**





**BUY 12 AND  
GET A FREE  
COUNTER  
DISPLAY BOX**

**DO NOT LOOK DIRECTLY INTO THE LIGHTS**  
**MA-FL3A**  
**3 LED EXTENDABLE  
FLASHLIGHT  
WITH FLEXIBLE NECK**  
INCLUDES: (4) LR44



STRONG MAGNET ON BASE TO ADHERE  
TO METAL SURFACES  
MAGNET ON HEAD TO PICKUP METAL  
PIECES IN HARD TO REACH SPACES  
EXTENDS FROM 6.5" TO 20"  
2" FLEXIBLE NECK



395 – 415NM  
WAVE  
LENGTH

**MA-FL3BUV**  
**3 UV LED EXTENDABLE FLASHLIGHT**  
WITH **FLEXIBLE NECK**  
INCLUDES: (4) LR44

STRONG MAGNET ON BASE TO ADHERE  
TO METAL SURFACES  
MAGNET ON HEAD TO PICKUP METAL  
PIECES IN HARD TO REACH SPACES  
EXTENDS FROM 6.5" TO 20"  
2" FLEXIBLE NECK



**MA-PBL1 BAT LIGHT**  
MATERIAL:  
ANODIZED ALUMINUM WITH RUBBER COVER  
3 FUNCTIONS: HIGH, LOW & TACTICAL STROBE  
INCLUDES: (3) AA BATTERIES



**MA-FL460**  
**4 LED  
FLASHLIGHT  
60 LED WORK  
LIGHT**  
INCLUDES:  
FOLDING STAND,  
HOOK, MAGNET  
& (3) AAA  
BATTERIES



**MA-AP3172**  
**8 LED FLASHLIGHT  
25 LEDWORK LIGHT  
& 1 LASER**

INCLUDES: (3) AAA BATTERIES

**MA-AP132**  
**6 LED PEN  
LIGHT**  
INCLUDES:  
MAGNET POCKET  
CLIP  
&  
(3) AAA BATTERIES



**MA-1001**  
(12/CTN)  
MAGNA-LITE JR

**MA-2001**  
(1/PKG)  
MAGNA-LITE SR.



**MAGNA-LITE**

**INDUSTRIAL GRADE BATTERIES**

- MA-303/357RB** LR44 1/PKG
- MA-ALD** D ALKALINE  
6/PKG – 72/CASE
- MA-ALC** C ALKALINE  
6/PKG – 72/CASE
- MA-ALAA** AA ALKALINE  
8/PKG – 96/CASE
- MA-ALAAA** AAA ALKALINE  
8/PKG – 96/CASE
- MA-AL9V** 9V ALKALINE  
6/PKG – 72/CASE



**DO NOT LOOK DIRECTLY INTO THE LIGHTS**



**MA-LF462C  
COB  
COLLAPSIBLE  
LANTERN**

INCLUDES:  
(3) AAA BATTERIES



**MA-WL10C  
10W COB  
PORTABLE  
WORK LIGHT**

**570 LUMENS  
ON/OFF SWITCH  
180° SWIVEL STAND BASE  
(2) MAGNETS ON BASE**

INCLUDES:  
(4) AA BATTERIES



**MA-748325A  
180° ADJUSTABLE  
WORKLIGHT  
WITH 25' CORD  
METAL GUARD  
MAGNET ON BASE**



**MA-RPW20  
20W COB  
RECHARGABLE  
PORTABLE  
WORK LIGHT  
2000 LUMENS**

INCLUDES:  
CAR CHARGER &  
AC/DC CHARGER



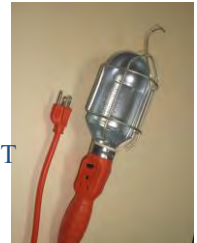
**ALL-WEATHER  
EXTENSION  
CORDS**



- MA-73093** 50 FT. 12/3 SJEOW (6/CASE)
- MA-74213** 100 FT. 12/3 SJEOW (4/CASE)
- MA-60743** 50 FT. 12/3 SJTW (6/CASE)
- MA-72023** 100 FT. 12/3 SJTW (4/CASE)
- MA-70474** 25 FT. 14/3 SJTW (12/CASE)
- MA-63493** 50 FT. 14/3 SJTW (6/CASE)
- MA-61623** 100 FT. 14/3 SJTW (6/CASE)
- MA-65093** 25 FT. 16/3 SJTW (12/CASE)
- MA-63223** 50 FT. 16/3 SJTW (12/CASE)
- MA-67363** 100 FT. 16/3 SJTW (6/CASE)

**TROUBLE LIGHT  
WITH SWITCH & OUTLET**

- MA-71493** 25' 16/3 SJT WITH METAL GUARD SWITCH & OUTLET TROUBLE LIGHT
- MA-70343** 50' 16/3 SJT WITH METAL GUARD SWITCH & OUTLET TROUBLE LIGHT



**REPLACEMENT  
POWER SUPPLY  
CORDS**



- MA-09857** 6' 14/3 BLACK 3 CONDUCTOR SJE00W, 125V, 15 AMP RATING
- MA-09858** 9' 14/3 BLACK 3 CONDUCTOR SJE00W, 125V, 15 AMP RATING
- MA-09709** 9' 16/3 BLACK 3 CONDUCTOR SJTW, 125V, 13 AMP RATING

**AIR CONDITIONING  
EXTENSION CORDS**



- MA-03532** 6 FT. 14/3 BEIGE, SPT3, RIGHT ANGLE, MALE PLUG, 15A-125V (24/CASE)
- MA-03533** 9 FT. 14/3 BEIGE, SPT3, RIGHT ANGLE, MALE PLUG, 15A-125V (18/CASE)

**HANDI-TAP 3-OUTLET  
EXTENSION CORDS**

ORANGE

- MA-72314** 2 FT. 12/3 STW, 15A
- MA-71354** 25 FT. 12/3 SJTW, 15A
- MA-72744** 50 FT. 12/3 SJTW, 15A
- MA-62044** 100 FT. 12/3 SJTW, 15A
- MA-61834** 25 FT. 14/3 SJTW, 15A
- MA-60954** 50 FT. 14/3 SJTW, 15A
- MA-70204** 100 FT. 14/3 SJTW, 15A





**MA-CL1**  
**CAPILLARY TUBE CUTTER**



**MA-VTC1**  
**VINYL TUBING CUTTER**

CUTS VINYL TUBING,  
 PVC PIPE AND  
 RUBBER TUBING



**MA-49317**  
**INNER/OUTER STEEL REAMER**  
 CAPACITY: 1/8" TO 1-5/8" OD



**MA-MFC1**

**FIN COMBS**

**MA-MFC1**  
 ALL METAL  
 FIN COMB

**MA-MFC2**

**MA-MFC2**  
 METAL FIN COMB  
 WITH HANDLE

**MA-MFC3**

**MA-MFC3**  
 6 IN 1 FIN COMBS  
 8, 9, 10, 12, 14,  
 & 15 FINS/INCH

**TORQUE AND  
 HEX KEY SETS**

**MA-88057**

7PC. TORQUE FOLD UP SET  
 T10, T15, T20, T25, T27, T30 & T40

**MA-88081**

8PC. HEX KEY FOLD UP SET  
 .050", 1/16", 5/64", 3/32", 7/64",  
 1/8", 9/64" & 5/32"

**MA-88091**

9PC. HEX KEY FOLD UP SET  
 5/64", 3/32", 7/64", 1/8", 9/64",  
 5/32", 3/16", 7/32" & 1/4"

**MA-1200**

7PC HEX KEY SET - 6" LONG  
 3/32", 5/64", 1/8", 5/32", 3/16",  
 7/32" & 1/4"

**MA-1201**

7PC HEX KEY SET  
 12" LONG - 3/32", 5/64", 1/8", 5/32",  
 3/16", 7/32" & 1/4"

**MA-1202**

8PC T-HANDLE HEX WRENCH SET -  
 9" LONG - 3/32", 7/64", 1/8", 9/64",  
 5/32", 3/16", 7/32" & 1/4"

MA-88057  
 MA-88081  
 MA-88091



MA-1200 6" Long  
 MA-1201 12" Long



**HUB PULLER**  
 PULLS OFF FAN BLADES AND  
 BLOWER WHEELS

**MA-FB2**



**DEBURRING TOOLS**

**MA-49310**

DELUXE DE-BURRING  
 TOOL

**MA-49314**

REPLACEMENT BLADES  
 FOR THE MA-49310



**MA-49316**

ALL METAL DE-BURRING  
 TOOL WITH FIXED BLADE



**6 IN 1 SWAGING TOOL**

3/16", 1/4", 5/16", 3/8", 1/2" & 5/8" OD TUBING

**MA-49318**



**HOLE SAW  
 KITS**

**MA-NS1000** 6PC. SAW KIT

3/4", 7/8", 1-1/8", 1-1/2", 1-3/4" & 2-1/4"  
 PLUS MA-NS1 & MA-NS2 ARBORS

**MA-NS2000** 9PC. SAW KIT

3/4", 7/8", 1-1/8",  
 1-3/8", 1-1/2", 1-3/4", 2", 2-1/4" & 2-1/2"  
 PLUS MA-NS1, MA-NS2 & MA-NS3  
 ARBORS & PILOT DRILL



**REPLACEMENT SAWS, ARBORS & EXTENSIONS**

**MA-NS1** 7/16" HEX SHANK ARBOR 9/16" TO 1-1/8" HOLE SAWS  
 1/2" X 20 THREAD

**MA-NS2** 7/16" HEX SHANK ARBOR 1-1/4" TO 6" HOLE SAWS  
 5/8" X 18 THREAD

**BI METAL HOLE SAW**

**MA-NS12** 3/4" **MA-NS14** 7/8" **MA-NS16** 1"

**MA-NS18** 1-1/8" **MA-NS22** 1-3/8" **MA-NS24** 1-1/2"

**MA-NS26** 1-5/8" **MA-NS28** 1-3/4" **MA-NS32** 2"

**MA-NS36** 2-1/4" **MA-NS40** 2-1/2"

**MA-NSPD1** 1/4" X 4" PILOT DRILL



**MA-MAG1**  
**MAGNETIZER & DEMAGNETIZER**  
MAGNETIZES AND DEMAGNETIZES TOOLS EASILY



**MAGNETIZE:**  
LEAD TOOL SLOWLY THROUGH TOP SQUARE

**DEMAGNETIZE:**  
LEAD TOOL SLOWLY THROUGH BOTTOM SQUARE

**MA-RS121**  
**STUBBY RATCHETING SCREWDRIVER**



**INCLUDES:**  
(1) RATCHETING SCREWDRIVER  
(1) BIT HOLDER  
(5) 25mm LONG PHILLIPS #1, #2 & #3 - SLOTTED #5 & #7  
(6) 28mm LONG PHILLIPS #0, #00, #T8 & T9 SLOTTED #2.5 & #3



**MA-9357**  
**6 IN 1 HEAVY DUTY PLASTIC HANDLE SCREWDRIVER**  
12/CASE - PRICE PER EACH

**REPLACEMENT BITS**  
LARGE REPLACEMENT MA-SDB2 - 1/4" SLOTTED & #2 PHILLIPS  
REPLACEMENT BITS  
SMALL REPLACEMENT MA-SDB8 - 3/16" SLOTTED & #1 PHILLIPS

**MA-9358-12**  
**6 IN 1 HEAVY DUTY RUBBER GRIP SCREWDRIVER**  
12/CASE - PRICE PER EACH



**REPLACEMENT BITS**  
LARGE REPLACEMENT MA-SDB2 - 1/4" SLOTTED & #2 PHILLIPS  
REPLACEMENT BITS  
SMALL REPLACEMENT MA-SDB8 - 3/16" SLOTTED & #1 PHILLIPS



**MA-TBS31**  
**31PC. TRIANGLE BIT SET**

**INCLUDES:**  
(1) QUICK RELEASE BIT HOLDER

**SLOTTED:** 3, 4, 5, 6 & 7  
**PHILLIPS:** 1, 2-2 & 3  
**POZI DRIVER:** 1, 2 & 3  
**HEX:** 2.5, 3, 4, 5 & 6  
**TORQUE:** 10, 15, 20, 25, 27, 30 & 40  
**SQUARE:** 1-1, 2-2 & 3-3

**COLOR CODE:**  
ORANGE = TORQUE  
BLUE = SLOTTED  
GREEN = POZIDRIVE®  
RED = PHILLIPS  
YELLOW = HEX  
PURPLE = SQUARE ACCESS



**MA-AP8SD**  
**8PC. SCREWDRIVER SET**  
4 SLOTTED - 4 PHILLIPS



**MA-70059P**  
**3PC. OFFSET SCREWDRIVER SET**

**MA-290**  
**MULTI-BIT & DRIVER KIT**  
29PC. TOOL KIT  
ASSORTED BITS WITH DRIVER & EXTENSION



**MA-147B**  
**13PC. DRILL SET**  
1/16" - 1/4"  
IN ROUND CASE

**ADJUSTABLE WRENCHES**

- MA-WR6** 6"
- MA-WR8** 8"
- MA-WR10** 10"
- MA-WR12** 12"
- MA-WR681012** 6", 8", 10" & 12"



**KIT INCLUDES:** 24 pc. Assorted Bits  
Plastic Carrying Case  
1 Quick Change Adaptor  
1 Bit Holder  
4 Phillips Bits: #1, (2) #2 & #3 - 1" long  
3 Slotted Bits: 6-8, 8-10 & 10-12 - 1" long  
2 Torque Bits: T15, T20 - 1" long  
3 Square Head Bits: S1, S2 & S3 - 1" long  
5 Hex Head Bits: 3/32", 1/8", 5/32", 3/16", & 7/32" - 1" long  
7 Drill Bits: 1/16", 3/32", 1/8", 5/32", 3/16"

**QUICK CHANGE ADAPTOR KIT**

**MA-72066**



**RATCHETING WRENCHES WITH DUAL HEX ADAPTERS 3/16" & 5/16"**



**STRAIGHT**  
5-1/2"  
&  
6-3/4"

**MA-70072** 5-1/2" STRAIGHT - ONE END SQ. 3/16" & 1/4" - ONE END SQ. 5/16" & 3/8"

**MA-70073** 6-3/4" STRAIGHT - ONE END SQ. 3/16" & 1/4" - ONE END HEX 1/2" & 9/16"



**OFFSET**  
5-1/2"

**MA-70074** 5-1/2" OFFSET - ONE END SQ. 3/16" & 1/4" - ONE END SQ. 5/16" & 3/8"

**SPECIALTY TOOLS**

- MA-114** FLEXIBLE MECHANICAL FINGERS 17-1/2" LONG
- MA-159A** DELUXE MAGNETIC TOOL WITH SWIVEL HEAD, PICKS UP TO 10LBS & EXTENDS TO 32"
- MA-186** SCRIBE (DUAL END)
- MA-185** TELESCOPIC FURNACE LIGHTER



MA-185



MA-159A

MA-114



MA-186



**QUICK CHANGE DRILL ADAPTOR**

**MA03500-2**

**MA-60609**  
**HEX KEY ADAPTOR**



**MA-60610**  
**HEX KEY ADAPTOR WITH STRAIGHT WRENCH**



**MA-60613**  
**STRAIGHT WRENCH**

1/4" & 3/16" AND 3/8" & 5/16"  
(ALSO AVAILABLE **MA-60613-25** 25/PKG)

**MA-60616**

**OFFSET WRENCH**

1/4" & 3/16" AND 3/8" & 5/16"  
(ALSO AVAILABLE **MA-60616-25** 25/PKG)



**FLARE WRENCH SET**

**MA-49320** 3 PC SET  
3/8" X 7/16", 1/2" X 9/16" & 5/8" X 11/16" **MA-49320**



**MA-49324** 5 PC SET  
1/4" X 5/16", 3/8" X 7/16", 1/2" X 9/16", 5/8" X 11/16" & 3/4" X 7/8" **MA-49324**



**REPLACEMENT WRENCHES**

- MA-49330** 1/4" X 5/16"
- MA-49331** 3/8" X 7/16" **MA-49333** 5/8" X 11/16"
- MA-49332** 1/2" X 9/16" **MA-49334** 3/4" X 7/8"

**PIPE WRENCHES**

STEEL

- MA-70091** 10" HEAVY DUTY
- MA-70093** 14" HEAVY DUTY
- MA-70094** 18" HEAVY DUTY
- MA-70095** 24" HEAVY DUTY

ALUMINUM

- MA-70097** 12" ALUMINUM
- MA-70098** 14" ALUMINUM
- MA-70099** 18" ALUMINUM
- MA-70100** 24" ALUMINUM



## REVERSIBLE RATCHET WRENCH BIT KIT

### MA-RRWBK



KIT INCLUDES: POLISHED FINISH  
5-1/2" SQUARE OPENING, TOP END: 1/4" & 3/16"  
BOTTOM END: 5/16" & 3/8" STRAIGHT  
5-1/2" SQUARE OPENING, TOP END: 1/4" & 3/16"  
BOTTOM END: 5/16" & 3/8" OFFSET  
6-3/4" HEX OPENING: 1/2" & 9/16" SQUARE OPENING:  
1/4" & 3/16" STRAIGHT  
ADAPTER: 2-1/4" - 1/4" SQUARE X 3/16" HEX  
ADAPTER: 2-1/4" - 1/4" SQUARE X 5/16" HEX

## MA-NDK16 16 PC. HEX MAGNETIC NUT DRIVER KIT

### INCLUDES:

1/4" X 1-3/4", 2-9/16", 4" AND 6"  
5/16" X 1-3/4", 2-9/16", 4" AND 6"  
3/8" X 1-3/4"

6PCS. SCREWDRIVER BITS  
SLOTTED 1/4" HEX - 2" LONG - 3/16", 7/32" & 9/32"  
PHILLIPS 1/4" HEX - 2" LONG - 0PT, 1PT & 2PT  
1PC. QUICK CHANGE ADAPTOR



## FLEXIBLE RATCHET WRENCH SET

### MA-FWP7

#### U.S. STANDARD SIZE

#### REPLACEMENT WRENCHES

MA-FWP1/4 - 1/4" MA-FWP5/8 - 5/8"  
MA-FWP1/2 - 1/2" MA-FWP7/16 - 7/16"  
MA-FWP5/16 - 5/16" MA-FWP9/16 - 9/16"  
MA-FWP3/8 - 3/8"

### MA-FWP7-MET

#### METRIC SIZE

#### REPLACEMENT WRENCHES

MA-FWP6MM - 6MM MA-FWP13MM - 13MM  
MA-FWP8MM - 8MM MA-FWP14MM - 14MM  
MA-FWP10MM - 10MM MA-FWP16MM - 16MM  
MA-FWP11MM - 11MM



## 8PC. FOLDING RATCHET BIT SET MA-FRBS8

### INCLUDES:

1PC. FOLDING  
RATCHET BIT DRIVER  
1PC. 1/4" QUICK CHUCK  
BIT ADAPTOR  
6PC. 25MM BITS  
2 SLOTTED - 2 PHILLIPS - 2 TORX



## MA-SOC19 19PC. RATCHETING SOCKET SET

### U.S. STANDARD SIZE

### INCLUDES: 1/4" & 3/8"

1 PC. 3/8" DR. REV. RATCHET HANDLE  
1 PC. 3/8" DR. EXTENSION BAR 3"  
1 PC. 1/4" (M) X 3/8" (F) ADAPTOR  
1 PC. 3/8" DR. SPARK PLUG SOCKET 5/8"  
1 PC. 1/4" DR. SPINNER HANDLE 6"  
11 PCS. 1/4" DR. SOCKETS 5/32", 3/16", 7/32",  
1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 15/32" AND 1/2"  
3 PCS. 3/8" DR. SOCKETS 1/2", 9/16" AND 11/16"

### MA-SOC19-MET - METRIC SIZE - INCLUDES: 6.35mm & 10mm

1 PC. 10mm DR. REVERSIBLE RATCHET HANDLE - 1 PC. 10mm DR. EXTENSION  
BAR 75mm - 1 PC. 6.35mm (M) X 10mm (F) ADAPTOR - 1 PC. 10mm DR. SPARK  
PLUG SOCKET 16mm - 1 PC. 6.35mm DR. SPINNER HANDLE 150mm - 11 PCS.  
6.35mm DR. SOCKETS 4mm, 4.5mm, 5mm, 5.5mm, 6mm, 7mm, 8mm, 9mm, 10mm,  
11mm and 12mm -  
3 PCS. 10mm DR. SOCKETS 13mm, 14mm and 17mm



**“QUICK-PIERCE”  
 REFRIGERANT RECOVERY TOOL**



**MA-QP400**  
 RECOVERY TOOL  
**MA-QP400-12**  
 PIERCING TIP  
 REPLACEMENT  
 (1/PKG)  
**MA-QP400G**  
 GASKET ONLY

**LOCKING PINCH-OFF TOOL  
 MA-1RR**



**TONGUE AND GROOVE PLIERS      PLIERS**

**MA-430G**  
 10" – CAPACITY 2" (A)  
**MA-440G**  
 12" – CAPACITY 2-1/4" (A)  
STANDARD PATTERN PLIERS  
**MA-317G** 7-1/2" LONG NOSE  
 PLIERS WITH SIDE CUTTER (B)  
**MA-337** 7" LAP JOINT  
 DIAGONAL PLIER (C)



**A**



**B**



**C**

**REPLACEMENT  
 DRIVERS  
 HOLLOW SHAFTS**

**MA-9306** 3/16"  
**MA-9308** 1/4"  
**MA-9310** 5/16"  
**MA-9311** 11/32"  
**MA-9312** 3/8"  
**MA-9314** 7/16"  
**MA-9316** 1/2"



**7PC NUT DRIVER SET  
 MA-9355**



**2PC. NUT DRIVER SET  
 MA-ND14516  
 1/4 & 5/16"  
 WITH RUBBER GRIP**

**MA-72433**  
 1" GASKET SCRAPER  
**MA-72439**  
 1-1/4" CHISEL  
 SCRAPER  
**MA-72435**  
 1-1/4" PUTTY KNIFE  
**MA-72437**  
 3" PUTTY KNIFE

**SCRAPER &  
 PUTTY  
 KNIVES**

MA-72433  
 MA-72439  
 MA-72435  
 MA-72437



**MA03200-2  
 CRIMPING TOOL**



**MA03203-2  
 DELUXE CUTTER & WIRE STRIPPER**



**15 FUNCTION KNIFE**  
**MA-KN15**

**15 FUNCTIONS:**

- \*MAIN BLADE
- \*CAN OPENER
- \*SCISSORS
- \*FISH SCALER
- \*HOOK REMOVER
- \*PHILLIPS SCREWDRIVER
- \*LEATHER PUNCH
- \*NAIL CLEANER
- \*NAIL FILE

**FUNCTIONS CONT':**

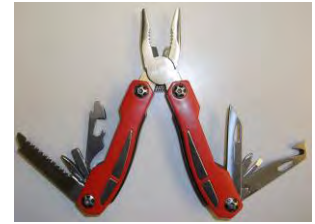
- \*NEEDLE THREADER
- \*CORKSCREW
- \*KEY RING
- \*SLOTTED SCREWDRIVER
- \*BOTTLE OPENER
- \*SAW



**CAMOUFLAGE KNIFE**  
**MA-CKN1**

STAINLESS STEEL 3-1/2" BLADE  
4-1/2" CLOSED - 8" OPEN  
INCLUDES: POCKET CLIP

**BUY 6 AND GET A COUNTER DISPLAY BOX FREE**



**13 FUNCTION MULTI-TOOL**  
**MA-MT13**

**13 FUNCTIONS:**

- \*NEEDLE NOSE PLIERS
- \*REGULAR PLIER
- \*WIRE CUTTER
- \*SHARP KNIFE
- \*SMALL SLOTTED SCREWDRIVER
- \*MEDIUM SLOTTED SCREWDRIVER
- \*LARGE SLOTTED SCREWDRIVER

**FUNCTIONS CONT':**

- \*PHILLIPS SCREWDRIVER
- \*METAL/WOOD FILE
- \*BELT CUTTER
- \*BOTTLE OPENER
- \*CAN OPENER
- \*SAW

**DUCTBOARD KNIFE & SHEATH**  
**MA-KN74HD**

STAINLESS STEEL \* 1 SIDE SMOOTH \* 1 SIDE SERRATED



**SURGICAL STAINLESS STEEL POCKET KNIFE**  
**MA-KC710**

WITH HARDWOOD HANDLE  
3-3/4" BLADE  
5" CLOSED - 8-3/4" OPEN

MA-KVS008A



MA-KVS007A

**STAINLESS STEEL POCKET KNIVES**

**MA-KVS007A** 2" SMOOTH BLADE,  
3" CLOSED - 5" OPEN  
**MA-KVS008A** 2" SERRATED BLADE,  
3" CLOSED - 5" OPEN



**FOLDING KNIFE WITH SMOOTH/SERRATED BLADE**

**MA-AP890**  
3" BLADE - 4" CLOSED - 7" OPEN

**FOLDING UTILITY KNIFE**



**MA-301C**

**INCLUDES:**  
(3) ADDITIONAL REPLACEMENT BLADES

**DELUXE UTILITY CUTTER**

**MA-202**

REPLACEMENT BLADES  
**MA-202RB**



**MINI-POCKET MULTI-TOOL**  
**MA-MT62**

**14 FUNCTIONS:**

- \*BOTTLE OPENER
- \*WIRE CUTTER
- \*SMALL WIRE STRIPPER
- \*LARGE WIRE STRIPPER
- \*SMALL BLADE & PRY BAR
- \*SERRATED BLADE
- \*LARGE DROP POINT BLADE

**PLIERS PLUS**  
**MA-MT53**

**FUNCTIONS CONT':**

- \*FILE
- \*NEEDLE NOSE PLIER
- \*REGULAR PLIER
- \*SMALL SCREWDRIVER
- \*PHILLIPS SCREWDRIVER
- \*LARGE SCREWDRIVER





## SNIPS

### AVIATION SNIPS

**MA-70250** CUTS LEFT (RED)

**MA-70251** CUTS RIGHT (GREEN) AVIATION SNIPS

**MA-70252** CUTS STRAIGHT (YELLOW)

### OFFSET SNIPS

**MA-70253** CUTS LEFT

**MA-70254** CUTS RIGHT

### TINNER SNIPS

**MA-70255** 7" LONG CUTS 1-3/4"

**MA-70256** 10" LONG CUTS 2-1/2"

**MA-70257** 12-1/2" LONG CUTS 3"



TINNER SNIPS

**AVIATION SNIPS:** Our 10" Aviation Snips from MA-Line meet Federal specifications ANSI/ASME B107-16-1985. They have blades that are made from drop forged AISI-6150 chrome vanadium steel, with serrated blade edges that have been induction harden. They are rated to cut up to 1.2mm cold rolled steel or .7mm AISI-304 stainless steel.

**OFFSET SNIPS:** Our Offset Snips have vinyl plastic handle guard grips. The offset blades keep hand above metal, eliminates interference with metal being cut. Cuts up to 1-1/2".

**TINNER SNIPS:** Our Tinner Snips have a straight pattern that is recommended when a powerful snip and a straight cut is desired. Our snips have polished blades and baked enamel handles.

## HACKSAWS



MA-70-14JR

MA-132A

**MA-70-14JR** JUNIOR HACKSAW WITH BLADE

**MA-71-132R** BLADE ONLY FOR MA-70-14JR

**MA-132A** MINI-HACKSAW WITH BLADE

### REPLACEMENT BLADES

**MA-AA45E** 12" HACKSAW BLADE, 18TPI (10/PKG)

**MA-AA46V** 12" HACKSAW BLADE, 24TPI (10/PKG)

**MA-AA47R** 12" HACKSAW BLADE, 32TPI (10/PKG)

## SCREW STARTERS WITH MAGNET



**MA-171** PHILLIPS HEAD 6" NYLON HANDLE

**MA-174** SLOTTED HEAD 3" ALUMINUM HANDLE

**MA-174D** PHILLIPS HEAD 3" ALUMINUM HANDLE

**MA-175D** PHILLIPS HEAD 6" ALUMINUM HANDLE

**MA-176E** SLOTTED HEAD 9" NYLON HANDLE

## POCKET LEVELS



**MA-8400**

ALUMINUM 5" POCKET LEVEL



**MA-8408**

MAGNETIC PVC 9" POCKET LEVEL

## TAPE MEASURES

**MA0126-12** 1/2" X 12' WITH LOCK

**MA0127-16** 3/4" X 16' WITH LOCK

**MA0128-25** 1" X 25' WITH LOCK

**MA0129-30** 1" X 30' WITH LOCK



## REEL TAPE

**MA0130-50** 3/8" X 50'

**MA0131-100** 3/8" X 100'

## STEEL CALIPERS

**MA-71801P** STEEL CALIPER



The inexpensive and easy-to-use caliper from the MA-Line is made of all steel. Designed to measure in both inches and centimeters. Made to measure thickness or gauge of any type of metal as well as the ID or the OD of tubing or fittings

**MA-71802P** 6" DIAL CALIPER



The all stainless steel construction, shockproof unit measures in standard and metric. It comes with a deluxe storage case.

**MA-71803P** DIGITAL CALIPER



The Deluxe Digital Electronic Caliper represents the latest in technology at an economical price. The unit will measure in standard inches or metric. It comes with a deluxe storage case to protect this valuable instrument. The LED display is designed to measure at the speed of 60"/second or 1.5m/second. Also has a serial output for interface with a host computer or printer.

## WIRE PVC CUTTER/SAW

**MA-PVC27** 27"

**MA-PVC42** 42"



These PVC Cutters are an easy, inexpensive and convenient way to cut PVC pipe. They come in two different lengths. The MA-PVC27 is for smaller size PVC pipe while the MA-PVC42 is for the larger (4" and up) size PVC pipe.

## PVC PIPE CUTTERS

**MA-S25** CUTS UP TO 1"

**MA-L42** CUTS UP TO 1-1/4"

**MA-L50** CUTS UP TO 2"



**MA-S25RB** REPLACEMENT BLADE FOR MA-S25

**MA-L42RB** REPLACEMENT BLADE FOR MA-L42

**MA-L50RB** REPLACEMENT BLADE FOR MA-L50

**SLOTTED 1/4" HEX INSERT**



1" LENGTH

- MA-9601** 1/8" (3/PKG)
- MA-9602** 3/16" (3/PKG)
- MA-9603** 7/32" (3/PKG)
- MA-9604** 9/32" (3/PKG)

2" LENGTH

- MA-9605** 3/16" (2/PKG)
- MA-9606** 7/32" (2/PKG)
- MA-9607** 9/32" (2/PKG)

2-3/4" LENGTH

- MA-9608** 3/16" (2/PKG)
- MA-9609** 7/32" (2/PKG)
- MA-9610** 9/32" (2/PKG)

ASSORTMENT 2" LENGTH

- MA03542-2** 3/16", 7/32"& 9/32" (3/PKG)

**PHILLIPS 1/4" HEX INSERT**



1" LENGTH

- MA-9611** 0 PT (3/PKG)
- MA-9612** 1 PT (3/PKG)
- MA-9613** 2 PT (3/PKG)
- MA-9614** 3 PT (3/PKG)

2" LENGTH

- MA-9615** 0 PT (2/PKG)
- MA-9616** 1 PT (2/PKG)
- MA-9617** 2 PT (2/PKG)
- MA-9618** 3 PT (2/PKG)

2-3/4" LENGTH

- MA-9619** 1 PT (2/PKG)
- MA-9620** 2 PT (2/PKG)
- MA-9621** 3 PT (2/PKG)

ASSORTMENT 2" LENGTH

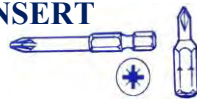
- MA03543-2** 1, 2, 3 PT (3/PKG)

**DOUBLE WAY 2/PKG**

- MA-9658** 1X4MM
- MA-9659** 2X5MM
- MA-9660** 2.5X5MM
- MA-9661** 3X6MM



**POZIDRIVE 1/4" HEX INSERT**



1" LENGTH - (3/PKG)

- MA-9646** 1 PT
- MA-9647** 2 PT

2" LENGTH - (2/PKG)

- MA-9648** 1 PT
- MA-9649** 2 PT

**PLATED SHEET METAL SCREWS**



HEX WASHER HEAD SELF DRILLING UNSLOTTED SCREWS

- MA03758-1** 8 X 1/2" (20/BAG)
- MA03759-1** 8 X 3/4" (18/BAG)
- MA03760-1** 8 X 1" (16/BAG)
- MA03761-1** 10 X 1/2" (14/BAG)
- MA03762-1** 10 X 3/4" (12/BAG)
- MA03763-1** 10 X 1" (10/BAG)

BAGS - 100 PCS

- MA03758-2** 8 X 1/2"
- MA03759-2** 8 X 3/4"
- MA03760-2** 8 X 1"
- MA03761-2** 10 X 1/2"
- MA03762-2** 10 X 3/4"
- MA03763-2** 10 X 1"

TUBS - 500 PCS

- MA03758-3** 8 X 1/2"
- MA03759-3** 8 X 3/4"
- MA03760-3** 8 X 1"
- MA03761-3** 10 X 1/2"
- MA03762-3** 10 X 3/4"
- MA03763-3** 10 X 1"

HEX WASHER HEAD FAST PENETRATING HEAD SLOTTED SCREWS

BAGS - 100 PCS

- MA03414-2** 7 X 1/2"
- MA03415-2** 8 X 1/2"
- MA03416-2** 8 X 3/4"
- MA03417-2** 10 X 1/2"
- MA03565-2** 8 X 1"
- MA03566-2** 10 X 3/4"
- MA03567-2** 10 X 1"

TUBS - 500 PCS

- MA03565-3** 8 X 1"
- MA03567-3** 10 X 1"
- TUBS - 1000 PCS
- MA03414-4** 7 X 1/2"
- MA03415-4** 8 X 1/2"
- MA03416-4** 8 X 3/4"
- MA03417-4** 10 X 1/2"
- MA03566-4** 10 X 3/4"



**MA-MGT1  
MAGNETIC PARTS TRAY  
ROUND**

1-5/8" LENGTH

- MA03539-2** 1/4"
- MA03540-2** 5/16"
- MA03541-2** 3/8"
- MA09353-2** 1/4" & 5/16"
- MA09354-2** 1/4", 5/16" & 3/8"

**MAGNETIC CHUCKS**

FOR ELECTRIC DRILLS AND POWER SCREWDRIVERS

2-9/16" LENGTH

- MA03544-2** 1/4"
- MA03545-2** 5/16"
- MA03546-2** 3/8"



POINT OF PURCHASE DISPLAY CARD 24 PCS. PER CARD

- MA03539-24** 1/4" X 1-5/8"
- MA03540-24** 5/16" X 1-5/8"
- MA03541-24** 3/8" X 1-5/8"
- MA0353940-MX** (12) 1/4" X 1-5/8" & (12) 5/16" X 1-5/8"

**POINT OF PURCHASE DISPLAY CARD FOR COUNTER TOP OR HANG ON RACK**



**TORQ 1/4" HEX INSERT**



1" LENGTH

- MA-9622** T-10 (3/PKG)
- MA-9623** T-15 (3/PKG)
- MA-9624** T-20 (3/PKG)
- MA-9625** T-25 (3/PKG)
- MA-9626** T-30 (3/PKG)
- MA-9627** T-40 (3/PKG)

2" LENGTH

- MA-9628** T-10 (2/PKG)
- MA-9629** T-15 (2/PKG)
- MA-9630** T-20 (2/PKG)
- MA-9631** T-25 (2/PKG)
- MA-9632** T-30 (2/PKG)
- MA-9633** T-40 (2/PKG)

**TAMPER-PROOF TORQ 1/4" HEX INSERT**



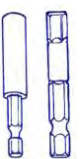
1" LENGTH

- MA-9634** T-10 (3/PKG)
- MA-9635** T-15 (3/PKG)
- MA-9636** T-20 (3/PKG)
- MA-9637** T-25 (3/PKG)
- MA-9638** T-30 (3/PKG)
- MA-9639** T-40 (3/PKG)

2" LENGTH

- MA-9640** T-10 (2/PKG)
- MA-9641** T-15 (2/PKG)
- MA-9642** T-20 (2/PKG)
- MA-9643** T-25 (2/PKG)
- MA-9644** T-30 (2/PKG)
- MA-9645** T-40 (2/PKG)

**MAGNETIC BIT HOLDER 1/4" HEX DRIVE**



1" LENGTH - (1/PKG)

- MA-9662** 2-1/2"
- MA-9663** 3"
- MA-9664** 1/4" X 1/4"
- MA-9665** 1/4" X 3/8"

**ROBERTSON 1/4" HEX INSERT**



1" LENGTH - (3/PKG)

- MA-9650** 1/16"
- MA-9651** 3/32"
- MA-9652** 1/8"
- MA-9653** 9/64"

2" LENGTH - (2/PKG)

- MA-9654** 1/16"
- MA-9655** 3/32"
- MA-9656** 1/8"
- MA-9657** 9/64"



FINGER PROTECTION PADS

NO SLIP GRIP SILICONE WEBBING

PADDED PALMS



FINGER PROTECTION PADS

NO SLIP GRIP SILICONE WEBBING

PADDED PALMS



**BLACK/NEON GREEN**

**MA-GLVM** MEDIUM

**MA-GLVL** LARGE

**MA-GLVXL** EXTRA LARGE

**MA-GLVXXL** EXTRA-EXTRA LARGE

**MA-LINE WORK GLOVES**

**CAMOUFLAGE**

**MA-GLVL-C** LARGE

**MA-GLVXL-C** EXTRA LARGE

**MA-GLVXXL-C** EXTRA-EXTRA LARGE



**MA-13025**  
**BLACK & RED TOOL BAG WITH RUBBER BASE**

MADE OF STRONG 600D POLYESTER MATERIAL  
RUBBER BOTTOM FOR EXTRA PROTECTION  
INCLUDES SHOULDER STRAP AND HANDLE  
10 INSIDE POCKETS - 14 POCKETS & 2 LOOPS SURROUNDING BAG OUTSIDE

DIMENSIONS: 16"L X 8"W X 13"H

**MA-BP001**  
**HEAVY DUTY BACK PACK WITH RUBBER BASE**



MADE OF STRONG 600D POLYESTER MATERIAL  
RUBBER BOTTOM FOR EXTRA PROTECTION

CARRYING HANDLE INCLUDES TWO STRAPS TACKED DOWN WITH RIVETS FOR REINFORCEMENT  
INCLUDES ZIPPER LOCK FOR MAIN COMPARTMENT  
SEPARATED TOOL WALL IN MAIN COMPARTMENT

DIMENSIONS: 33"L X 23"W X 47"H



**CARRY ALL BLACK NYLON POUCH**

**MA-MC123**

12"L X 6"W X 2"D

**EXECUTIVE TOOL CASE**

**MA-5TCA**



**PLASTIC TOOL & TOTE CASES**



MA-303



MA-311



MA-651

**MA-303** TOOL BOX WITH LIFT TRAY 15-3/8" X 7-3/4" X 4-1/4"

**MA-311** TOTE MORE TOOL BOX 14-3/4" X 8-1/8" X 6-7/8"

**MA-651** 20" TOOL BOX-DEEP BOTTOM WITH LIFT TRAY 20-1/4" X 10-7/8" X 9-1/4"

**METAL STORAGE DRAWERS**

**MA03375-2**

21 COMPARTMENT DRAWER  
13- 3/16" X 9-1/4" X 2"

**MA03376-2**

32 COMPARTMENT DRAWER  
18" X 12" X 3"

**MA03353-2**

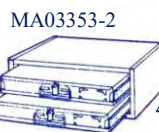
2 DRAWER SLIDE RACK FOR MA03375-2

**MA03355-2**

4 DRAWER SLIDE RACK FOR MA03375-2



MA03375-2



MA03353-2



MA03376-2

MA03355-2



(SLIDE RACKS DO NOT INCLUDE DRAWERS)

- (1) PLASTIC CARRYING CASE
- (4) EXTRA-STRENGTH NON-ASPRIN TABLETS
- (2) IBUPROFEN TABLETS
- (2) ASPRIN TABLETS
- (12) ANTESEPTIC CLEANSING WIPES (STING FREE)
- (8) ALCHOL CLEANSING PADS
- (4) ANTIBIOTIC OINTMENT PACKS
- (1) BURN RELIEF PACK
- (1) EMERGENCY BLANKET 38" X 60"
- (1) INSTANT COLD COMPRESS
- (5) BUTTERFLY WOUND CLOSURES
- (1) BURN RELIEF GEL PADS
- (1) FIRST AID TAPE ROLL 1/2" X 5 YDS.
- (1) FINGER SLPINT
- (50) PLASTIC BANDAGES 3/4" X 3"
- (10) FABRIC BANDAGES 3/4" X 3"
- (20) PLASTIC BANDAGES 1" X 3"

**ALL PURPOSE  
FIRST AID KIT**

**MA-FA134**  
200 PC FIRST AID KIT



- (20) JUNIOR ADHESIVE PLASTIC BANDAGES 3/8" X 1-1/2"
- (8) KNUCKLE FABRIC BANDAGES
- (8) FINGERTIP FABRIC BANDAGES
- (1) ELBOW & KNEE PLASTIC BANDAGE 2" X 4"
- (12) SPOT BANDAGES 7/8" X 7/8"
- (2) GAUZE DRESSING PADS 3" X 3"
- (10) GAUZE DRESSING PADS 2" X 2"
- (1) TRAUMA PAD 5"X 9"
- (1) STERILE EYE PAD
- (1) AMERICAN MEDICAL ASSOC. FIRST AID GUIDE
- (1) PLASTIC TWEEZERS
- (10) COTTON-TIPPED APPLICATORS 3"
- (2) LATEX-FREE EXAM QUALITY VINYL GLOVES

**NON-SKID KNEE PADS**

**MA-992015**

SUPER TOUGH BALLISTIC NYLON  
BREATHABLE NEOPRENE STRAP  
WITH DOUBLE CLOSUR SYSTEM  
ANTI-COMPRESSION GEL FOR  
ADDED COMFORT, DURABILITY  
AND SHOCK ABSORPTION



**BOOT/SHOE  
COVERS**



**MA-73532** BLUE SHOE COVERS FITS  
SIZES 6-12 (150 PAIRS PER CASE)

**COMBINATION  
OIL PUMP**

**MA-OCPI**

FEATURES:

- SUCTION TRANSFER HOSE INCLUDED
- CONNECTS TO BOTTOM OF UNIT TO PUMP OIL FROM EQUIPMENT QUICKLY AND EFFICIENTLY
- REMOVE OIL FOR RECOVERY AND CONVERSION
- ADDS OIL TO EXISTING SYSTEMS



DOES NOT  
OFFER  
RESPIRATORY  
PROTECTION



**NON-TOXIC  
PARTICLE &  
DUST MASK**

**MA-7300**  
(50 MASKS PER BOX)

**BLUE NITRILE DISPOSABLE  
POWDERED GLOVES**

100 GLOVES PER BOX

- MA-8646M** MEDIUM
- MA-8646L** LARGE
- MA-8646XL** EXTRA LARGE



The MA-Line Nitrile disposable gloves have superior softness and comfort. They are resistant to abrasion, punctures and chemical deterioration and are 100% Nitrile-hypoallergenic. They are cooler than latex because they relax and conform to your hand.

**GREASE, GREASE GUNS, FITTINGS,  
TOOLS &  
ACCESSORIES**



MA-11315

MA-111

MA-30200

A-11354

MA-30132

**MA-11315** MULTI-PURPOSE GREASE 14OZ.  
(10/CS) SOLD BY THE CASE - PRICE PER EACH

**MA-11302** MULTI-PURPOSE GREASE 3.5OZ.  
(2/BAG) SOLD BY THE PKG - PRICE PER PKG

**MA-11354** WHITE LITHIUM GREASE 14OZ.  
(10/CS) SOLD BY THE CASE PRICE PER EACH

**MA-30132** MINI-GREASE GUN KIT

**MA-30200** HEAVY DUTY GREASE GUN

**MA-05028** COUPLER

**MA-10214** 12" GREASE HOSE

**MA-10218** 18" GREASE HOSE

**GREY SMOKE CARTRIDGES**



- 1A** 30 SEC/4000 CU.FT. (12/PKG)
- 2B** 1 MIN/8000 CU. FT. (12/PKG)
- 3C** 3 MIN/40,000 CU. FT. (12/PKG)

**WHITE SMOKE CARTRIDGES**

- MA-SC150CF** 45 SEC/150 CU. FT. (10/PKG)
- MA-SC600CF** 90 SEC/600 CU. FT. (10/PKG)
- MA-SC1200CF** 4 MIN/1200 CU. FT. (5/PKG)
- MA-SC5000CF** 5 MIN/2500 CU. FT. (5/PKG)



**ALL RUBBER**

- MA-002RR** 2" X 2" X 3/8" 48/BOX
- MA-003RR** 3" X 3" X 3/8" 24/BOX
- MA-004RR** 4" X 4" X 3/8" 24/BOX
- MA-006RR** 6" X 6" X 3/8" 24/BOX
- MA-012RR** 12" X 12" X 3/8" 12/BOX
- MA-018RR** 18" X 18" X 3/8" 6/BOX

**ANTI-VIBRATION PADS**



**NATURAL RUBBER**

81 SQUARES PER SHEET PRICE PER SHEET

- MA-181834** 18" X 18" X 3/4" 6/BOX

**CORK AND RUBBER**

- MA-002CR** 2" X 2" X 7/8" 48/BOX
- MA-003CR** 3" X 3" X 7/8" 36/BOX
- MA-004CR** 4" X 4" X 7/8" 24/BOX
- MA-006CR** 6" X 6" X 7/8" 12/BOX
- MA-012CR** 12" X 12" X 7/8" 6/BOX
- MA-018CR** 18" X 18" X 7/8" 6/BOX

**DEFROST THERMOSTATS**  
ML SERIES



- 32745** 45 TEMP (F) OPEN 45 CLOSE 25
- 32750** 50 TEMP (F) OPEN 50 CLOSE 30
- 32755** 55 TEMP (F) OPEN 55 CLOSE 35
- 32760** 60 TEMP (F) OPEN 60 CLOSE 40
- 32770** 70 TEMP (F) OPEN 70 CLOSE 50
- 32780** 80 TEMP (F) OPEN 80 CLOSE 30
- 32790** 90 TEMP (F) OPEN 90 CLOSE 35

- 33329** LOW PSI OPEN 5 RESET 20
- 33330** LOW PSI OPEN 10 RESET 20
- 33362** LOW PSI OPEN 20 RESET 50
- 33363** LOW PSI OPEN 20 RESET 80
- 33364** LOW PSI OPEN 40 RESET 90
- 33353** HIGH PSI OPEN 200 RESET 150
- 33354** HIGH PSI OPEN 250 RESET 150
- 33355** HIGH PSI OPEN 300 RESET 200
- 33356** HIGH PSI OPEN 350 RESET 250
- 33357** HIGH PSI OPEN 400 RESET 200
- 33358** HIGH PSI OPEN 400 RESET 300
- 33359** HIGH PSI OPEN 450 RESET 250

**MINI PRESSURE SWITCHES**



MA-TX402



MA-TX405



MA-TX501



MA-TX502



MA-TX779

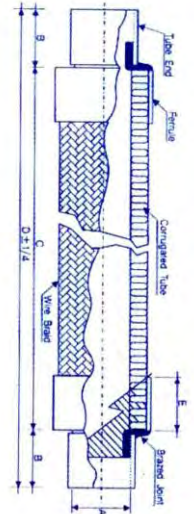
**MA-LINE CLASS 2 TRANSFORMERS**

PART #	REPLACES	CONNECTION TYPE	PRIMARY VOLTAGE	SECONDARY VOLTAGE	OUTPUT RATING	MOUNTING STYLE
<b>MA-TX202</b>	620-202	NOT UL	120	24	20VA	PLUG-IN
<b>MA-TX205</b>	50351	WIRE LEAD	120	24	20VA	FOOT
<b>MA-TX402</b>	50333	WIRE LEAD	120/208/240	2.5, 12, 24	48VA	MULTI
<b>MA-TX403</b>	50302	WIRE LEAD	120	24	40VA	MULTI
<b>MA-TX404</b>	50303	WIRE LEAD	208/240	24	40VA	MULTI
<b>MA-TX405</b>	50352	WIRE LEAD	120	24	40VA	FOOT
<b>MA-TX406</b>	50353	WIRE LEAD	208/240	24	40VA	FOOT
<b>MA-TX407</b>	50304	WIRE LEAD	120/208/240	24	40VA	MULTI
<b>MA-TX482</b>	50354	WIRE LEAD	120/208/240	24	40VA	FOOT
<b>MA-TX501</b>	620-501	TERMINAL	120/208/240	28	50VA	UNIVERSAL CONNECTION WITH TERMINAL BOARD
<b>MA-TX502</b>	50314	WIRE LEAD	120/208/240	24	50VA	MULTI
<b>MA-TX775</b>	50320	WIRE LEAD	120/208/240/480 WITH FUSE	24	75VA	FOOT
<b>MA-TX779</b>	50321	WIRE LEAD	120/208/240/480 WITH CIRCUIT BREAKER	24	75VA	FOOT
<b>MA-TX100</b>	N/A	WIRE LEAD	120/208/240/480 WITH CIRCUIT BREAKER	24	100VA	FOOT

**WORLD SOURCE VIBRATION ELIMINATORS (IMPORT)**  
**STAINLESS STEEL VIBRATION ELIMINATORS WITH FEMALE COPPER ENDS**



PART NUMBER	ACTUAL O.D. OF COPPER TUBING (IN.)	DIMENSION (INCHES)					MAX WORKING PRESSURE (PSIG.)	BURST PRESSURE (PSIG.)
		A (ID.)	B (+/- 1/8")	C (+/- 1/8")	D (+/- 1/4")	E (+/- 1/16")		
<b>VE14OD</b>	1/4	1/4	3/4	6-5/8	8-1/16	1/2	500	2500
<b>VE38OD</b>	3/8	3/8	13/16	6-15/16	8-9/16	1/2	500	2500
<b>VE12OD</b>	1/2	1/2	7/8	7-1/4	9	1/2	500	2500
<b>VE58OD</b>	5/8	5/8	15/16	8	9-7/8	11/16	500	2500
<b>VE34OD</b>	3/4	3/4	1-1/4	8-1/16	10-9/16	11/16	500	2500
<b>VE78OD</b>	7/8	7/8	1-7/16	9-1/8	12	13/16	500	2500
<b>VE118OD</b>	1-1/8	1-1/8	1-13/16	9-7/16	13-1/16	13/16	500	2500
<b>VE138OD</b>	1-3/8	1-3/8	2	11-1/2	15-9/16	7/8	500	2500
<b>VE158OD</b>	1-5/8	1-5/8	2-1/4	12-3/8	16-7/8	15/16	500	2500
<b>VE218OD</b>	2-1/8	2-1/8	2-3/4	15-3/16	20-5/8	15/16	390	1950
<b>VE258OD</b>	2-5/8	2-5/8	3-1/8	18-1/16	24-5/16	1-1/4	340	1700
<b>VE318OD</b>	3-1/8	3-1/8	3-7/16	20	26-15/16	1-1/2	300	1500
<b>VE358OD</b>	3-5/8	3-5/8	4-1/8	24	32-3/16	1-9/16	175	525
<b>VE418OD</b>	4-1/8	4-1/8	4-7/16	24	32-15/16	1-9/16	175	525



**ANACONDA/UNIVERSAL VIBRATION ELIMINATORS**

BRONZE WITH FEMALE ENDS PART NUMBER	TO FIT COPPER TUBE		FLEX. HOSE ID (IN.)	H(+/-) 1/4 (IN.)	DIMENSIONS			MAX. OPERATING PRESSURE PSI
	ACTUAL O.D. (IN.)	NOM. (IN.)			A MAX. (IN.)	B MAX. (IN.)	E(+/-)1/8 (IN.)	
<b>1418FZ</b>	1/4	1/8	1/4	7-1/2	9/16	5/8	1/2	700
<b>5614FZ</b>	3/8	1/4	5/16	8-1/4	11/16	3/4	5/8	700
<b>3838FZ</b>	1/2	3/8	3/8	9	3/4	7/8	3/4	500
<b>1212FY</b>	5/8	1/2	1/2	9-3/4	1	1-1/8	7/8	450
<b>1258FY</b>	3/4	5/8	1/2	10	1	1-1/8	1	450
<b>3458FY</b>	3/4	5/8	3/4	11-1/4	1-3/8	1-1/2	1-1/8	450
<b>3434FY</b>	7/8	3/4	3/4	11-1/2	1-3/8	1-1/2	1-1/4	450
<b>1010FY</b>	1-1/8	1	1	13	1-5/8	1-7/8	1-1/2	450
<b>5454FY</b>	1-3/8	1-1/4	1-1/4	14-3/4	2-1/8	2-1/4	1-5/8	500

STAINLESS STEEL WITH FEMALE ENDS PART NUMBER	TO FIT COPPER TUBE		FLEX. HOSE ID (IN.)	H(+/-) 1/4 (IN.)	DIMENSIONS			MAX. OPERATING PRESSURE PSI
	ACTUAL O.D. (IN.)	NOM. (IN.)			A MAX. (IN.)	B MAX. (IN.)	E(+/-) 1/8 (IN.)	
<b>6464FS</b>	1-5/8	1-1/2	1-1/2	17	2-1/4	2-3/8	2	400
<b>2020FS</b>	2-1/8	2	2	20	3-1/8	3-1/4	2-1/2	360
<b>5252FS</b>	2-5/8	2-1/2	2-1/2	24	3-3/4	3-7/8	3	300
<b>3030FS</b>	3-1/8	3	3	27	4-3/8	4-1/2	3-1/2	300
<b>7272FS</b>	3-5/8	3-1/2	3-1/2	23	4-5/8	4-15/16	3-3/16	150
<b>4040FS</b>	4-1/8	4	4	25	5-5/16	5-3/4	4-3/8	150
<b>5050FS</b>	5-1/8	5	5	27-1/2	6-1/4	---	5-1/2	150
<b>6060FS</b>	6-1/8	6	6	33	7-1/4	---	6-1/2	150
<b>8080FS</b>	8-1/8	8	8	42-1/2	9-1/2	---	7	150

**WORLD SOURCE AND ANACONDA VIBRATION ELIMINATORS ARE SUITABLE FOR**  
R12 – R22 – R23 – R125  
R134A – R401A – R401B  
R402A – R402B – R404A  
R407A – R407B – R407C  
R408A – R409A – R410A  
R410B – R412A – R502  
R507 – R508 – R509



**COLD-CLIMATE  
TIES**

ALL WEATHER APPLICATIONS  
EXTENDED UV SUNLIGHT PROTECTION  
FOR INSTALLATIONS DOWN TO -4°F/-20°C

EXTREME PERFORMANCE IN COLD WEATHER APPLICATIONS  
CHILL OUT WITH COLD-CLIMATE TIES



PART NUMBER	LENGTH	TENSILE	WIDTH	THICKNESS	COLOR	QTY
MA-CCT7	7"	50#	0.18	0.054	UV BLACK	100
MA-CCT11	11"	50#	0.18	0.054	UV BLACK	100
MA-CCT14	14"	50#	0.18	0.054	UV BLACK	100
MA-CCT15	15"	**120	**0.298	**0.069	UV BLACK	100
MA-CCT7-K	7"	50#	0.18	0.054	UV BLACK	1000
MA-CCT11-K	11"	50#	0.18	0.054	UV BLACK	1000
MA-CCT14-K	14"	50#	0.18	0.054	UV BLACK	1000
MA-CCT15-K	15"	**120	**0.298	**0.069	UV BLACK	1000



**PLENUM RATED  
WIRE TIES**

CONTINUOUS OPERATING TEMPERATURE:  
MIN: -4°F MAX: 185°F/MIN: -40°C MAX: 85°C

TENSIL STRENGTH AT 73°F ASTM D-638:  
12,000

UL FLAME RATING:  
94V-2

GAMMA RADIATION RESISTANCE:  
1 X 10RADS

\*RoHS COMPLIANT                      \*UL LISTED  
MEETS UL2043 FOR USE IN PLENUM AIR HANDLING SPACES.

PART NUMBER	LENGTH	TENSILE	WIDTH	THICKNESS	COLOR	QTY
MA-PLT4	4"	18#	0.096	0.035	BURGUNDY	100
MA-PLT7	7"	50#	0.18	0.054	BURGUNDY	100
MA-PLT11	11"	50#	0.18	0.054	BURGUNDY	100
MA-PLT14	14"	50#	0.18	0.054	BURGUNDY	100
MA-PLT4-K	4"	18#	0.096	0.035	BURGUNDY	1000
MA-PLT7-K	7"	50#	0.18	0.054	BURGUNDY	1000
MA-PLT11-K	11"	50#	0.18	0.054	BURGUNDY	1000
MA-PLT14-K	14"	50#	0.18	0.054	BURGUNDY	1000

**WIRE TIE MOUNTING PAD**

**MA03765-1**  
1" X 1" FLEXIBLE BASE  
(10/PKG)



**NATURAL WIRE TIES**

PART #	LENGTH	BUNDLE DIA.	PKG.
<b>MA02043-1</b>	4" & 7-1/2"	ASSORT.	30
<b>MA02044-1</b>	11" & 14"	ASSORT.	30
<b>MA02045-1</b>	4" & 14"	ASSORT.	30
<b>MA02046-1</b>	4", 5-1/2" & 7-1/2"	ASSORT.	27
<b>MA03171-1</b>	4"	1/16" TO 3/4"	36
<b>MA03172-2</b>	4"	1/16" TO 3/4"	100
<b>MA03174-1</b>	5-1/2"	1/16" TO 1-1/2"	34
<b>MA03175-2</b>	5-1/2"	1/16" TO 1-1/2"	100
<b>MA03177-1</b>	7-1/2"	1/16" TO 1-3/4"	30
<b>MA03178-2</b>	7-1/2"	1/16" TO 1-3/4"	100
<b>MA03180-1</b>	11"	1/16" TO 3"	14
<b>MA03181-2</b>	11"	1/16" TO 3"	50
<b>MA03183-1</b>	14"	1/16" TO 4"	10
<b>MA03184-2</b>	14"	1/16" TO 4"	50
<b>MA03185-1</b>	17"	1/16" TO 4-1/2"	10
<b>MA03188-2</b>	17"	1/16" TO 4-1/2"	50



**50# TENSILE STRENGTH**  
7-1/2"  
11"  
14"  
17"

**BLACK WIRE TIES**

PART #	LENGTH	BUNDLE DIA.	PKG.
<b>MA04702-2B</b>	4"	1/16" TO 3/4"	100
<b>MA04704-2B</b>	5-1/2"	1/16" TO 1-1/2"	100
<b>MA04706-2B</b>	7-1/2"	1/16" TO 1-3/4"	100
<b>MA04708-2B</b>	11"	1/16" TO 3"	50
<b>MA04710-2B</b>	14"	1/16" TO 4"	50
<b>MA04712-2B</b>	17"	1/16" TO 4-1/2"	50

**NATURAL SCREWDOWN WIRE TIES**

PART #	LENGTH	BUNDLE DIA.	PKG.
<b>MA03189-1</b>	5-1/2"	1/16" TO 1-1/2"	13
<b>MA03190-2</b>	5-1/2"	1/16" TO 1-1/2"	100
<b>MA03192-1</b>	7-1/2"	1/16" TO 1-3/4"	10
<b>MA03193-2</b>	7-1/2"	1/16" TO 1-3/4"	100
<b>MA03195-1</b>	11"	1/16" TO 3"	7
<b>MA03196-2</b>	11"	1/16" TO 3"	50
<b>MA03198-1</b>	14"	1/16" TO 4"	6
<b>MA03199-2</b>	14"	1/16" TO 4"	50



**BLACK SCREWDOWN WIRE TIES**

PART #	LENGTH	BUNDLE DIA.	PKG.
<b>MA04793-2B</b>	7-1/2"	1/16" TO 1-3/4"	100
<b>MA04796-2B</b>	11"	1/16" TO 3"	50
<b>MA04799-2B</b>	14"	1/16" TO 4"	50

**ASSORTED WIRE TIE JARS**

**MA-WTJ1** COLOR WIRE TIE  
(600 PCS)

4" (50) RED & (50) BLACK  
5-1/2" (50) WHITE & (50) BLACK  
7-1/2" (50) WHITE, (50) BLACK,  
(50) RED & (50) BLUE  
11" (75) WHITE & (75) BLACK  
14-1/2" (50) WHITE

**MA-650N** NATURAL WIRE TIES  
(650 PCS)

4" (300), 7-1/2" (300) & 11" (50)

**MA-650B** BLACK WIRE TIES  
(650 PCS)

4" (300), 7-1/2" (300) & 11" (50)



**DUCT TIES**



**MA021120-2** 24" NATURAL 175 LBS FOR 6" DUCT  
**MA036175-2** 36" NATURAL 175 LBS FOR 11" DUCT  
**MA048175-2** 48" NATURAL 175 LBS FOR 14" DUCT  
**MA021120-2B** 24" BLACK 175 LBS FOR 6" DUCT  
**MA036175-2B** 36" BLACK 175 LBS FOR 11" DUCT  
**MA048175-2B** 48" BLACK 175 LBS FOR 14" DUCT

**ASSORTED WIRE TIES**

**MA-LINE PACKS**

**MA-PAK-1**

**250 NATURAL WIRE TIES**

4" (100), 7-1/2" (100) & 11" (50)

**MA-PAK-2**

**300 NATURAL & BLACK WIRE TIES**

NATURAL: 4" (50), 7-1/2" (50), 11" (50) & 14" (25)  
BLACK: 7-1/2" (50), 11" (50) & 14" (25)

**MA-PAK-3**

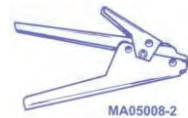
**450 BLACK WIRE TIES**

5-1/2" (200), 7-1/2" (200) & 11" (50)

**WIRE TIE GUNS**



**MA05007-2**



**MA05008-2**

**LIGHTWEIGHT PLASTIC FOR SMALL WIRE TIES**

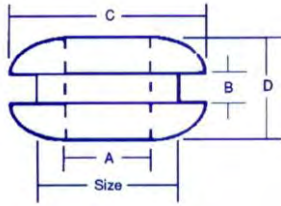
**MA05008-2**

**HEAVY DUTY METAL FOR LARGE WIRE TIES**

IDEAL FOR TENSIONING AND FOR CUTTING – DURABLE, LIGHTWEIGHT GUN HANDLES WIRE TIES UP TO 50LB LOOP STRENGTH. HEAVY DUTY GUN HANDLES 120-175 POUND.



### VINYL GROMMETS



SIZE	A	B	C	D
1/4"	1/8"	1/16"	11/32"	3/16"
5/16"	3/16"	1/16"	7/16"	7/32"
3/8"	1/4"	1/16"	9/16"	1/4"
7/16"	5/16"	1/16"	5/8"	1/4"
1/2"	3/8"	1/16"	5/8"	1/4"
5/8"	1/2"	1/16"	13/16"	9/32"
21/32"	25/64"	1/8"	27/32"	3/8"
7/8"	5/8"	1/16"	1-1/8"	9/32"
1"	11/16"	1/16"	15/16"	3/8"

PART #	DESCRIPTION	PKG	PART #	DESCRIPTION	PKG
<b>MA00151-1</b>	1/4", 5/16", 3/8"	40	<b>MA03168-1</b>	7/8"	15
<b>MA00152-1</b>	7/16", 1/2", 5/8"	20	<b>MA03169-1</b>	1"	5
<b>MA00153-1</b>	21/32", 7/8", 1"	10	<b>MA03161-2</b>	1/4"	100
<b>MA00154-1</b>	1/4" THRU 1"	25	<b>MA03162-2</b>	5/16"	100
<b>MA03161-1</b>	1/4"	40	<b>MA03163-2</b>	3/8"	100
<b>MA03162-1</b>	5/16"	40	<b>MA03164-2</b>	7/16"	100
<b>MA03163-1</b>	3/8"	35	<b>MA03165-2</b>	1/2"	100
<b>MA03164-1</b>	7/16"	35	<b>MA03166-2</b>	5/8"	100
<b>MA03165-1</b>	1/2"	30	<b>MA03167-2</b>	21/32"	100
<b>MA03166-1</b>	5/8"	25	<b>MA03168-2</b>	7/8"	100
<b>MA03167-1</b>	21/32"	15	<b>MA03169-2</b>	1"	100

PART #	DESCRIPTION	PKG
<b>MA00036-1</b>		40
CLAMPS, GROMMETS & WIRE TIES		
<b>MA00098-1</b>	1/8", 3/8", 7/16"	30
<b>MA00099-1</b>	5/16", 3/8", 7/16"	25
<b>MA00100-1</b>	1/2", 9/16", 5/8"	25
<b>MA00101-1</b>	3/4", 1"	10
<b>MA00102-1</b>	1/8" THRU 1"	25

### NYLON CABLE CLAMPS



1/8" THRU 9/16" =  
3/8" WIDE  
  
5/8" THRU 1" =  
1/2" WIDE

PART #	DESCRIPTION	PKG	PART #	DESCRIPTION	PKG
<b>MA03149-1</b>	1/8"	35	<b>MA03149-2</b>	1/8"	100
<b>MA03150-1</b>	3/16"	35	<b>MA03150-2</b>	3/16"	100
<b>MA03151-1</b>	1/4"	25	<b>MA03151-2</b>	1/4"	100
<b>MA03152-1</b>	5/16"	25	<b>MA03152-2</b>	5/16"	100
<b>MA03153-1</b>	3/8"	25	<b>MA03153-2</b>	3/8"	100
<b>MA03154-1</b>	7/16"	15	<b>MA03154-2</b>	7/16"	100
<b>MA03155-1</b>	1/2"	15	<b>MA03155-2</b>	1/2"	100
<b>MA03156-1</b>	9/16"	15	<b>MA03156-2</b>	9/16"	100
<b>MA03157-1</b>	5/8"	15	<b>MA03157-2</b>	5/8"	100
<b>MA03158-1</b>	3/4"	10	<b>MA03158-2</b>	3/4"	100
<b>MA03159-1</b>	1"	10	<b>MA03159-2</b>	1"	100

**ASSORTED TERMINAL RACK**  
**MA-78TERM**



PART #	DESCRIPTION	QTY/PKG.	QUANTITY
MA02898-2	SPECIAL DEVICE DISC. 16-14, 250 TAB	100	3
MA03011-2	BUTT SPLICE CON. 22-18	100	3
MA02596-2	BUTT SPLICE CON. 16-14	100	4
MA03012-2	BUTT SPLICE CON. 12-10	100	4
MA02598-2	QUICK DIS. FLARED VINYL INS. 16-14F, 250 TAB	100	4
MA03019-2	QUICK DIS. FLARED VINYL INS. 16-14F, 187 TAB	100	4
MA02619-2	QUICK DIS. FLARED VINYL INS. 12-10F, 250 TAB	100	4
MA03022-2	QUICK DIS. FLARED VINYL INS. 16-14M, 250 TAB	100	3
MA02621-2	RINGS FLARED VINYL INS. 16-14, 10 STUD	100	4
MA02622-2	RINGS FLARED VINYL INS. 12-10, 10 STUD	100	4
MA02978-2	SPADE FLARED VINYL INS. 16-14, 10 STUD	100	4
MA02982-2	SPADE FLARED VINYL INS. 12-10, 8 STUD	100	4
MA02597-2	SPADE FLARED VINYL INS. 16-14, 8 STUD	100	4
MA02911-2	SPECIAL DEVICE DISC. 16-14, 250 INS. TAB	100	3
MA03033-2	CLOSED END CONNECTORS 22-18, 5/8"	100	4
MA03034-2	CLOSED END CONNECTORS 12-10, 5/8"	100	4
MA02896-2	SPECIAL DEVICE DISC. 16-14, 250 TAB	100	3
MA02904-2	SPECIAL DEVICE DISC. 16-14, 250 TAB	100	4
MA03344-2	COMPRESSOR NON-INSULATED 12-8, 250 TAB	100	3
MA03471-2	QUICK DISC. FULLY INSULATED 16-14F, 250 TAB	100	4
MA03473-2	QUICK DISC. FULLY INSULATED 16-14M, 250 TAB	100	4
CR-RACK	COUNTER DISPLAY RACK WITH MA-LINE SIGN	1	1
CR-HOOKS	HOOKS FOR COUNTER DISPLAY RACK	1	21

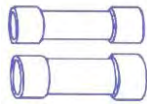
**BUTT SPLICE CONNECTORS**

PART # RANGE PKG  
INSULATED - FLARED - VINYL  
UL/CSA -167°F(75°C) - 300V -  
PVC/BRASS

MA02014-1	ASSORT	17
MA02521-1	16-14	20
MA02596-2	16-14	100
MA02522-1	12-10	15
MA03012-2	12-10	100
MA02591-1	22-18	20
MA03011-2	22-18	100

NON-INSULATED - UL/CSA - COPPER

MA02818-1	16-14	35
MA03791-2	16-14	100
MA02816-1	22-18	20
MA03790-2	22-18	100
MA02820-1	12-10	35
MA03792-2	12-10	100



FLARED VINYL  
INSULATED



NON-INSULATED

**CLOSED END CONNECTORS**

PART#	WIRE RANGE	DIM	PKG
MA02551-1	12-10	5/8"	10
MA03034-2	12-10	5/8"	100
MA02548-1	16-14	7/8"	10
MA03035-2	16-14	7/8"	100
MA02549-1	22-18	5/8"	15
MA03033-2	22-18	5/8"	100

UL/CSA  
302°F (150°C)  
ALUMINUM  
SLEEVE

**90 DEGREE DISCONNECT WITH SCREW**

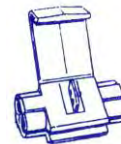
PART #	TAB	PKG
MA03775-1	.250	5
MA03775-2	.250	100



**SPECIAL DEVICE  
IN-LINE SPLICES**

MA03063-1 IN-LINE 18-14  
BLUE (8/PKG)

MA01066-1 T-TAP/MALE ASSORTMENT  
KIT/250 TAB/BLUE (8/PKG)



MA03063-1



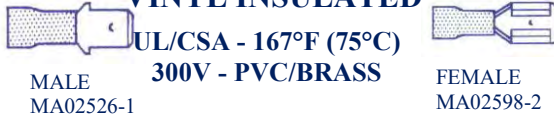
MA01066-1

**SPECIAL DEVICE DISCONNECTS**

PART #	RANGE	TAB	PKG
MA02109-1	16-14	250 INSUL.	10
MA02911-2	16-14	250 INSUL.	100
MA02595-1	-	250	15
MA02898-2	-	250	100
MA02896-1	-	250	10
MA02896-2	-	250	100
MA02903-1	-	250	10
MA02904-2	-	250	100
MA02906-1	-	250	10
MA02907-2	-	250	100
MA03042-1	-	250	5
MA03042-2	-	250	100
MA03349-1	-	250/10STUD	10
MA03349-2	-	250/10STUD	100
MA01029-1	12-10	250	10
MA01029-2	12-10	250	100
MA01023-1	-	250	10
MA01023-2	-	250	100

MA02896-1 MA02906-1  
MA02896-2 MA02907-2  
MA02109-1 MA02903-1  
MA02911-2 MA02904-2  
MA01023-1 MA02595-1  
MA01023-2 MA02898-2  
MA03042-1 MA03349-1

**QUICK DISCONNECTS FLARED  
 VINYL INSULATED**



UL/CSA - 167°F (75°C)  
 300V - PVC/BRASS

PART #	RANGE	TAB	PKG
MA02013-1	ASSORT	-	20
MA03028-1	16-14M	187	20
MA03029-2	16-14M	187	100
MA02526-1	16-14M	250	20
MA03022-2	16-14M	250	100
MA02590-1	12-10M	250	15
MA03023-2	12-10M	250	100
MA02587-1	22-18M	250	20
MA03018-1	16-14F	187	20
MA03019-2	16-14F	187	100
MA02588-1	16-14F	250	20
MA02598-2	16-14F	250	100
MA02589-1	12-10F	250	15
MA02619-2	12-10F	250	100
MA03015-1	22-18F	187	20
MA03016-2	22-18F	187	100
MA02586-1	22-18F	250	20
MA03013-2	22-18F	250	100

**FLARED VINYL INSULATED RINGS**



UL/CSA - 167°F (75°C)  
 300V - PVC/BRASS

PART #	RANGE	STUD	PKG
MA02536-1	16-14	6	20
MA02951-2	16-14	6	100
MA02537-1	16-14	8	20
MA02620-2	16-14	8	100
MA02528-1	16-14	10	20
MA02621-2	16-14	10	100
MA02532-1	16-14	1/4	15
MA02952-2	16-14	1/4	100
MA02955-1	16-14	5/16	15
MA02955-2	16-14	5/16	100
MA02956-1	16-14	3/8	15
MA02960-1	12-10	6	15
MA02581-1	12-10	8	15
MA02962-2	12-10	8	100
MA02530-1	12-10	10	15
MA02622-2	12-10	10	100
MA02534-1	12-10	1/4	10
MA02623-2	12-10	1/4	100
MA02969-1	12-10	1/2	5
MA02969-2	12-10	1/2	100
MA02968-1	12-10	3/8	15
MA02968-2	12-10	3/8	100
MA02577-1	22-18	6	20
MA02939-2	22-18	6	100
MA02578-1	22-18	8	20
MA02940-2	22-18	8	100
MA02579-1	22-18	10	20
MA02942-2	22-18	10	100
MA02580-1	22-18	1/4	15
MA02944-2	22-18	1/4	100
MA02065-1	8	1/4	15
MA02065-2	8	1/4	100
MA02066-1	6	1/4	15
MA02066-2	6	1/4	100

**QUICK DISCONNECTS  
 FULLY INSULATED**



UL/CSA - 221°F (105°C) - 300V - NYLON/BRASS

PART #	RANGE	TAB	PKG
MA03466-1	16-14MF	250	10
MA03471-1	16-14F	250	10
MA03471-2	16-14F	250	100
MA03473-1	16-14M	250	10
MA03473-2	16-14M	250	100
MA03475-1	12-10F	250	10
MA03475-2	12-10F	250	100
MA03477-1	12-10M	250	10
MA03477-2	12-10M	250	100
MA03465-1	22-18MF	250	10
MA03467-1	22-18F	250	10
MA03467-2	22-18F	250	100
MA03469-1	22-18M	250	10
MA03469-2	22-18M	250	100

**SPADES-FLARED  
 VINYL INSULATED**



TYPE A



TYPE B

PART #	RANGE	STUD	PKG	TYPE	PART #	RANGE	STUD	PKG	TYPE	PART #	RANGE	STUD	PKG	TYPE
MA01042-1	22-18	8	20	A	MA02585-1	16-14	6	20	B	MA02543-1	12-10	10	15	B
MA01042-2	22-18	8	100	A	MA02977-2	16-14	6	100	B	MA02983-2	12-10	10	100	B
MA01043-1	16-14	8	20	A	MA02544-1	16-14	8	20	B	MA02583-1	22-18	6	20	B
MA01043-2	16-14	8	100	A	MA02597-2	16-14	8	100	B	MA02971-2	22-18	6	100	B
MA01046-1	12-10	10	15	A	MA02541-1	16-14	10	20	B	MA02973-1	22-18	8	20	B
MA01046-2	12-10	10	100	A	MA02978-2	16-14	10	100	B	MA02974-2	22-18	8	100	B
					MA02980-1	12-10	6	15	B	MA02584-1	22-18	10	20	B
					MA02547-1	12-10	8	15	B	MA02975-2	22-18	10	100	B
					MA02982-2	12-10	8	100	B					

**RINGS-SPADES-DISCONNECTS**  
**NON-INSULATED**

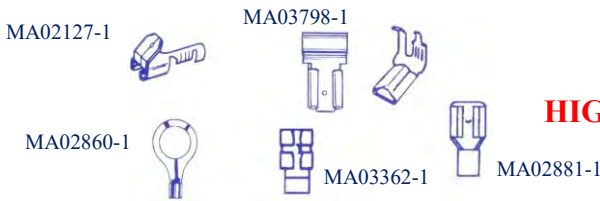


RING

DISCONNECTS

SPADE

PART #	RANGE	STUD	PKG	PART #	RANGE	STUD	PKG	PART #	RANGE	STUD	PKG
<b>RINGS</b>				<b>SPADES</b>				<b>DISCONNECTS</b>			
MA02707-2	22-10	6	100	MA02762-2	22-18	6	100	MA02821-1	22-18F	110	20
MA02724-2	16-14	6	100	MA02770-1	16-14	6	35	MA02822-2	22-18F	110	100
MA02726-1	16-14	8	35	MA02771-2	16-14	6	100	MA02823-1	22-18F	250	35
MA02727-2	16-14	8	100	MA02773-1	16-14	8	35	MA02824-2	22-18F	250	100
MA02729-1	16-14	10	35	MA02774-2	16-14	8	100	MA02825-1	16-14F	250	35
MA02729-2	16-14	10	100	MA02776-1	16-14	10	35	MA02826-2	16-14F	250	100
MA02744-1	12-10	8	25	MA02777-2	16-14	10	100	MA02827-1	12-10F	250	30
MA02745-2	12-10	8	100	MA02779-1	12-10	6	25	MA02828-2	12-10F	250	100
MA02746-1	12-10	10	25	MA02780-2	12-10	6	100	MA02830-1	22-18F	187	35
MA02747-2	12-10	10	100	MA02782-1	12-10	8	25	MA02833-1	16-14F	187	35
MA02749-1	12-10	1/4	20	MA02783-2	12-10	8	100	MA02834-2	16-14F	187	100
MA01123-1	8	10	5	MA02785-1	12-10	10	25	MA02837-2	22-18M	250	100
MA01124-1	8	1/4	5	MA02786-2	12-10	10	100	MA02839-1	16-14M	250	35
								MA02840-2	16-14M	250	100
								MA02842-1	12-10M	250	35
								MA02843-2	12-10M	250	100



**HIGH TEMPERATURE NON-INSULATED**  
**SOLDERLESS TERMINALS**

PART #	RANGE	STUD	PKG	PART #	RANGE	STUD	PKG
MA02127-1	16-14	.250	4	<b>DISCONNECTS</b>			
MA02127-2	16-14	.250	100	MA02875-1	16-14F	250	20
<b>RINGS</b>				MA02876-2	16-14F	250	100
MA03773-1	16-14	6	30	MA03362-1	16-14	250	20 FLAG
MA03780-2	16-14	6	100	MA03363-2	16-14	250	100 FLAG
MA02860-1	16-14	10	30	MA03776-1	16-14F	187	20
MA02861-2	16-14	10	100	MA03782-2	16-14F	187	100
MA03774-1	16-14	1/4	20	MA02881-1	12-10F	250	20
MA03781-2	16-14	1/4	100	MA02882-2	12-10F	250	100
MA02869-1	12-10	10	20	MA03798-1	12-10	250	20 FLAG
MA02870-2	12-10	10	100	MA03798-2	12-10	250	100 FLAG
MA02872-1	12-10	1/4	15	MA03783-2	22-18	187	100 FEMALE
MA02873-2	12-10	1/4	100	MA03784-1	22-18	187	20 MALE
MA03771-1	22-18	6	30	MA03784-2	22-18	187	100 MALE
MA03778-2	22-18	6	100	<b>SPADES</b>			
MA03772-1	22-18	10	30	MA03794-2	16-14	10	100
MA03779-2	22-18	10	100	MA03785-1	18-14M	250	15
MA02142-1	8	1/4	20	MA03785-2	18-14M	250	100
MA02142-2	8	1/4	100	MA03793-1	22-10	10	25
				MA03793-2	22-10	10	100

**COMPRESSOR**  
**NON-INSULATED**

PART #	RANGE	TAB	PKG	TYPE
MA03360-1	20-14	187	10	A
MA03361-2	20-14	187	50	A
MA03343-1	12-8	250	5	B
MA03344-2	12-8	250	50	B
MA03344-3	12-8	250	100	B
MA01130-1	16-14	250	10	B
MA01130-2	16-14	250	100	B

**FLAG DISCONNECT**  
**NON-INSULATED**

PART #	RANGE	TAB	PKG
MA02592-1	16-14F	250	30
MA02618-2	16-14F	250	100
MA02894-1	16-14F	187	20
MA02894-2	16-14F	187	100
MA03395-1	12-10F	250	15
MA03395-2	12-10F	250	100



**18 ITEMS = 175 ASSORTED PIECES**

- 10 pcs. Insulated Q/D: Female, Blue: 16-14
- 7 pcs. Insulated Q/D: Female, Yellow: 12-10
- 7 pcs. Insulated Rings: Yellow: 12-10, 1/4" Stud
- 7 pcs. Insulated Rings: Yellow: 12-10, 8 Stud
- 10 pcs. Insulated Rings: Blue: 16-14, 10 Stud
- 10 pcs. Insulated Rings: Blue: 16-14, 8 Stud
- 10 pcs. Insulated Q/D: Male, Blue: 16-14
- 11 pcs. Butt Connector: Red: 22-18
- 10 pcs. Butt Connector: Blue: 16-14
- 7 pcs. Butt Connector: Yellow: 12-10
- 10 pcs. Insulated Spade: Blue: 16-14, 10 Stud
- 10 pcs. Insulated Spade: Blue: 16-14, 8 Stud

**175 ASSORTED PIECES CONT'D**

- 16 pcs. Non-Insulated Flag: 16-14
- 16 pcs. Non-Insulated Piggy Back: 16-14
- 8 pcs. Non-Insulated Compressor Terminal: 16-14
- 15 pcs. Closed-End Connector: 1 6-14x8, 12-10x7
- 9 pcs. Wire Connector: Orange (4) Yellow (5)
- 3 pcs. Wire Connector: Red

**175 PIECE TERMINAL KIT  
 (STORED IN PLASTIC BOX)**

**MA02652-2**

TO SERVICE A/C, REFRIGERATION, AND COOLING UNITS



**21 ITEMS = 201 ASSORTED PIECES**

- 20 pcs. Insulated Disconnect: 16-14F/.250 Tab
- 15 pcs. Insulated Disconnect: 12-10F/.250 Tab
- 5 pcs. Compressor Non-Insulated: 12-18/.250 Tab
- 10 pcs. Connectors and Adapters: .250 (2)M (1)F
- 10 pcs. Connectors and Adapters: .250 (1)M (1)F
- 10 pcs. Insulated Rings: 16-14, 10 Stud
- 10 pcs. Insulated Rings: 16-14, 8 Stud
- 10 pcs. Insulated Rings: 12-10, 1/4" Stud
- 10 pcs. Butt Connector: Blue: 16-14
- 10 pcs. Butt Connector: Yellow: 12-10
- 10 pcs. Butt Connector: Red: 22-18

**201 ASSORTED PIECES CONT'D**

- 10 pcs. Closed-End Connectors: 22-18
- 10 pcs. Closed-End Connectors: 12-10
- 5 pcs. Non-Insulated Flag Disconnects: 16-14F
- 10 pcs. Insulated Spade: 16-14F, 8 Stud
- 10 pcs. Insulated Disconnect: 16-14M/.250 Tab
- 10 pcs. Insulated Ring: 12-10, 8 Stud
- 10 pcs. Insulated Spade: 16-14F, 10 Stud
- 10 pcs. Wire Connector: Orange
- 5 pcs. Wire Connector: Yellow
- 1 pc. Crimping Tool

**201 PIECE DELUXE TERMINAL KIT  
 (STORED IN A METAL BOX)**

**MA02653-2**

201 OF THE MOST POPULAR ITEMS TO SERVICE A/C, REFRIGERATION, AND COOLING UNITS

**SMALL ASSORTMENT KITS - INSULATED**



**ASSORTED RING &  
 BUTT CONNECTORS**

- MA02012-1 (14/PKG.)**  
 3PCS. 12-10 BUTT CONN.  
 3PCS. 12-10 #10 STUD SPADES  
 4PCS. 12-10 #10 STUD RINGS  
 2PCS. 12-10 #8 STUD RINGS  
 2PCS. 12-10 1/4" STUD RINGS

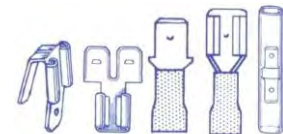
**ASSORTED  
 BUTT CONNECTORS**

- MA02014-1 (17/PKG)**  
 8PCS. 16-14, 6PCS. 22-10  
 & 3PCS. 12-10



**ASSORTED RINGS, SPADES  
 & CONNECTORS**

- MA02015-1 (20/PKG)**  
 2PCS. EA. 22-18, 16-14 & 12-10 BUTT CONN.  
 2PCS. EA. 12-10 & 16-14 #10 STUD SPADES  
 2PCS. EA. 12-10 & 16-14 #10 STUD RINGS  
 2PCS. 16-14 #6 STUD RINGS  
 2PCS. 22-18 #10 STUD RINGS  
 2PCS. 22-18 #6 STUD RINGS



**ASSORTED QUICK  
 DISCONNECTS**

- MA02013-1 (20/PKG)**  
 2PCS. EA. 12-10F, 16-14F, 22-18F .250 TAB  
 2PCS. EA. 12-10M, 16-14M, 22-18M .250 TAB  
 2PCS. 3 WAY ADAPTOR .250 TAB  
 2PCS. PIN TYPE MALE  
 4PCS. .250 SPECIAL DEVICES



MA03754-2

**MA03754-2 (60 PCS)**  
**SPECIAL NUT KIT**  
6-32, 8-32, 10-24 & 1/4-20  
**MA03756-2 (90 PCS)**  
**NYLON INSERT  
LOCK NUT KIT**  
6-32, 8-32, 10-24, 10-32,  
1/4-20 & 5/16-18



MA03756-2



MA03750-2

**MA03750-2 (50 PCS)**  
**SET SCREW KIT**  
6-32X1/4, 8-32X1/4, 8-32X3/4,  
10-24X1/4, 10-32X1/4, 10-32X3/4,  
1/4-20X3/8 & 5/16-18X3/8  
**MA03757-2 (60 PCS)**  
**SHEET METAL SCREW KIT**  
8X1/2, 8X3/4, 10X1/2, 10X1



MA03757-2



MA03752-2

**MA03752-2 (40 PCS)**  
**SOLDERLESS  
TERMINAL KIT INSULATED**  
**MA03802-2 (24 PCS)**  
**SOLDERLESS LG. GAUGE  
TERMINAL KIT  
NON-INSULATED**



MA03802-2



**PLASTIC STORAGE  
BOXES**

**MA-3600**

18 COMPARTMENT BOX

**MA-3612**

12 COMPARTMENT BOX



**ANCHOR KITS**



INCLUDES DRILL BIT 100 ANCHORS  
& 100 SLOTTED PAN HEAD SCREWS

**MA-8410** 3/16" X 3/4", 6-8 SLOTTED  
PAN HEAD SCREWS

**MA-8411** 1/4" X 1", 10-12 SLOTTED PAN HEAD SCREWS

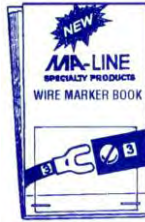
**MA-8412** 5/16" X 1-1/2", 14-16 SLOTTED PAN HEAD SCREWS  
INCLUDES 50 ANCHORS &  
50 COMBINATION PAN HEAD SCREWS

**MA-8414** 8 X 1-1/4" PLASTIC

**MA-8415** 8 X 1-1/4" METAL



MA-LINE "MARK-IT"  
TOUGH VINYL MARKERS  
WITH ACRYLIC ADHESIVE.  
SERVICE TEMP.  
-50F TO 200F (-45C TO 90C)  
DISPENSER PROTECTS  
UNUSED LABELS



### WIRE MARKER IDENTIFICATION TAPE DISPENSER/BOOKS

- MA02152-2** 10-PAGE WIRE MARKER BOOK  
#1 THROUGH #45 (1/PKG)
- MA02153-2** 10-PAGE WIRE MARKER BOOK  
A-Z, 0-15, +, - and / (1/PKG)
- MA02148-2** DISPENSER W/TAPE 0-9 (1/PKG)
- MA02149-2** REPLACEMENT ROLLS 0-4 (1/PKG)
- MA02150-2** REPLACEMENT ROLLS 5-9 (1/PKG)
- MA02151-2** REPLACEMENT ROLLS 0-9 (1/PKG)

### TERMINAL BLOCKS & JUMPERS



- |  |  |
|--|--|
| <b>MA-6182</b> DOUBLE ROW 4 TERMINAL<br>20AMP BLOCK 2.2" LONG  | <b>MA-6192</b> DOUBLE ROW 4 TERMINAL<br>30AMP BLOCK 3.2" LONG  |
| <b>MA-6183</b> DOUBLE ROW 6 TERMINAL<br>20AMP BLOCK 2.9" LONG  | <b>MA-6193</b> DOUBLE ROW 6 TERMINAL<br>30AMP BLOCK 4.3" LONG  |
| <b>MA-6184</b> DOUBLE ROW 8 TERMINAL<br>20AMP BLOCK 3.7" LONG  | <b>MA-6194</b> DOUBLE ROW 8 TERMINAL<br>30AMP BLOCK 5.5" LONG  |
| <b>MA-6185</b> DOUBLE ROW 10 TERMINAL<br>20AMP BLOCK 4.4" LONG | <b>MA-6195</b> DOUBLE ROW 10 TERMINAL<br>30AMP BLOCK 6.6" LONG |
| <b>MA-6186</b> DOUBLE ROW 12 TERMINAL<br>20AMP BLOCK 5.2" LONG | <b>MA-6196</b> DOUBLE ROW 12 TERMINAL<br>30AMP BLOCK 7.7" LONG |
| <b>MA-6187</b> DOUBLE ROW 14 TERMINAL<br>20AMP BLOCK 5.9" LONG | <b>MA-6197</b> DOUBLE ROW 14 TERMINAL<br>30AMP BLOCK 8.8" LONG |
| <b>MA-6188</b> JUMPER FOR 20AMP<br>TERMINAL BLOCK (10/PKG)     | <b>MA-6198</b> JUMPER FOR 30AMP<br>TERMINAL BLOCK (10/PKG)     |

**MA-6182 – MA-6187**

UL RECOGNIZED FOR 20AMP  
(250v COMMERCIAL EQUIP.)  
FITS SAME SPACE AS A 15AMP STRIP  
MAX WIRE SIZE 14 TERMINAL  
WIDTH 7/8" SCREW SIZE 6

**MA-6192 – MA-6197**

UL RECOGNIZED FOR 30AMP  
(800v COMMERCIAL EQUIP.)  
MAX WIRE SIZE 12 TERMINAL WIDTH  
1-5/16" SCREW SIZE 8

### HEAT SHRINK TUBING

TUBING IS 4" IN  
LENGTH

- MA00478-1** ASSORTED 3/16", 1/4" & 3/8" (8/PK)
- MA00479-1** ASSORTED 1/2", 3/4" & 1" (5/PK)
- MA00480-1** ASSORTED 1/16" THRU 1" (7/PK)
- MA03383-1** 1/8" (10/PK)
- MA03385-1** 3/16" (8/PK)
- MA03387-1** 1/4" (7/PK)
- MA03389-1** 3/8" (6/PK)
- MA03391-1** 1/2" (5/PK)
- MA03393-1** 3/4" (4/PK)
- MA03394-1** 1" (3/PK)





MA-8203

### CIRCUIT AND VOLTAGE TESTERS

- MA-8201** COMBINATION CIRCUIT TESTER AND SCREWDRIVER FOR 80-250V AC/DC WITH POCKET CLIP
- MA-8202A** LOW VOLTAGE TESTER 5-50V AC/DC, TWIN LEAD CIRCUIT TESTER WITH ALLIGATOR CLIPS
- MA-8203** 4 WAY TESTER FOR AC/DC VOLTAGES 110, 220, 277 AND 440 WITH POCKET CLIP
- MA-8205** GFI RECEPTACLE TESTER



MA-8205



MA-8202A



MA-8201



### VOLTAGE TESTER & LED FLASHLIGHT

24 TO 1000VAC

**MA-49858A**

### VOLTAGE PROBE & CONTINUITY TESTER

**MA-8206**



### VOLTAGE TESTER

80-300V AC/DC, 50-60HZ

**MA-7321**

### SOLENOID VOLTAGE TESTER

AC: 120-240-480-600V  
DC: 120-240-600V

**MA-8207**



### ALLIGATOR AND BATTERY CLIPS



MA03090-1  
MA03093-1  
MA03096-2



MA02933-1  
MA02936-1



MA03092-1

- MA02933-1** NON-INSULATED SMALL (8/PKG)
- MA02936-1** NON-INSULATED MEDIUM (6/PKG)
- MA03090-1** 2 BLACK & 2 RED INSULATED BOOTS- SMALL (4/PKG)
- MA03092-1** CABLE CLAMP STYLE CLIP – 2 BLACK AND 2 RED (4/PKG)
- MA03093-1** BLACK & RED INSULATED BOOTS – LARGE (4/PKG)
- MA03096-2** JUMBO BATTERY CLIPS WITH 1 BLACK AND 1 RED BOOT

### TEST LEADS AND ADAPTORS



MA02987-2



MA02991-3



MA05031-2



MA-32831  
MA-32832

- MA02987-2** 6" LENGTH (2/PKG) 1 BLACK AND 1 RED ADAPTORS
- MA02991-3** 14 AWG, 24" LONG LEADS
- MA05031-2** 18 AWG, 10EA. 18" LONG TEST LEADS
- MA-32831** 2' FEMALE CORD ADAPTER
- MA-32832** 6' MALE CORD ADAPTER

### COMPRESSOR LEADS



- MA02984-2** 8" COMPRESSOR LEADS
- MA02984-3** 18" COMPRESSOR LEADS
- MA02985-2** 8" COMPRESSOR LEADS WITH RINGS
- MA02985-3** 18" COMPRESSOR LEADS WITH RINGS

### RELAY/OVERLOAD COMBINATION

**MA-IC13**  
1/4 & 1/3 HP, 120V, 50/60HZ

**MA-IC15**  
1/8, 1/6, 1/5 HP 120V, 50/60HZ

- FEATURES:**  
BUILT IN MOUNTING CLIP  
MOUNTS IN ANY POSITION  
PREWIRED FOR FAST AND SIMPLE INSTALLATION  
CAN BE USED WITH IN A CAPACITOR OR NON-CAPACITOR APPLICATION.







**GREY:** NO. 22 THRU 14 AWG  
MIN: 1PC. #20 AWG & 1PC. #22 AWG  
MAX: 2PCS. #16

**BLUE:** NO. 22 THRU 14 AWG  
MIN: 1PC. #18 AWG & 1PC. #22 AWG  
MAX: 3PCS. #16

**ORANGE:** NO. 22 THRU 14 AWG  
MIN: 1PC. #18 AWG & 1 PC. #20 AWG  
MAX: 3PCS. #16 AWG & 1PC. #18 AWG

**YELLOW:** NO. 18 THRU 10 AWG  
MIN: 3PCS. #18 AWG  
MAX: 3PCS. #12 AWG

**RED:** NO. 18 THRU 8 AWG  
MIN: 2PCS. #14 AWG  
MAX: 2PCS. #10 AWG & 2PCS. #12 AWG.

- MA01018-1** (25/BAG)
  - MA01018-2** (50/BAG)
  - MA01018-3** (100/BAG)
  - MA01018BX** (100/BOX)
  - MA01018P** (500/TUB)
- GREY**

**“TWIST ON” SPRING GRIP WIRE CONNECTOR**

- |                            |                            |                            |                            |
|----------------------------|----------------------------|----------------------------|----------------------------|
| <b>MA01019-1</b> (20/BAG)  | <b>MA01020-1</b> (15/BAG)  | <b>MA01021-1</b> (10/BAG)  | <b>MA01022-1</b> (5/BAG)   |
| <b>MA01019-2</b> (50/BAG)  | <b>MA01020-2</b> (50/BAG)  | <b>MA01021-2</b> (50/BAG)  | <b>MA01022-2</b> (50/BAG)  |
| <b>MA01019-3</b> (100/BAG) | <b>MA01020-3</b> (100/BAG) | <b>MA01021-3</b> (100/BAG) | <b>MA01022-3</b> (100/BAG) |
| <b>MA01019BX</b> (100/BOX) | <b>MA01020BX</b> (100/BOX) | <b>MA01021BX</b> (100/BOX) | <b>MA01022BX</b> (100/BOX) |
| <b>MA01019P</b> (500/TUB)  | <b>MA01020P</b> (250/TUB)  | <b>MA01021P</b> (250/TUB)  | <b>MA01022P</b> (100/TUB)  |
- BLUE**                      **ORANGE**                      **YELLOW**                      **RED**

**WINGED WIRE CONNECTORS**

- |                           |                           |                            |                            |
|---------------------------|---------------------------|----------------------------|----------------------------|
| <b>MA10606-1</b> (5/BAG)  | <b>MA10608-1</b> (5/BAG)  | <b>MA10602-1</b> (15/BAG)  | <b>MA10604-1</b> (10/BAG)  |
| <b>MA10606-2</b> (50/BAG) | <b>MA10608-2</b> (50/BAG) | <b>MA10602-2</b> (100/BAG) | <b>MA10604-2</b> (100/BAG) |
| <b>MA10606BX</b> (50/BOX) | <b>MA10608BX</b> (50/BOX) | <b>MA10602BX</b> (100/BOX) | <b>MA10604BX</b> (100/BOX) |
- GREY**                      **BLUE**                      **YELLOW**                      **RED**



**PORCELAIN WIRE CONNECTOR KIT**

**MA-PWN46**  
(15) SMALL  
(25) MEDIUM  
(6) LARGE

SMALL = 2X18GA, 3X18GA OR 4X20GA  
MEDIUM = 3X18GA, 4X18GA OR 5X20GA  
LARGE = 2X14GA, 5X18GA OR 6X20GA

**MAX. TEMP. RATING - UP TO 1800F (982C)**

**PORCELAIN WIRE CONNECTOR**

- |                                   |                                    |                                   |
|-----------------------------------|------------------------------------|-----------------------------------|
| <b>MA01164-1</b> SMALL (15/BAG)   | <b>MA01165-1</b> MEDIUM (10/BAG)   | <b>MA01166-1</b> LARGE (10/BAG)   |
| <b>MA01164C-2</b> SMALL (100/BAG) | <b>MA01165C-2</b> MEDIUM (100/BAG) | <b>MA01166C-2</b> LARGE (100/BAG) |



**TAN WINGED WIRE CONNECTORS**

IN A PLASTIC TUB WITH HANDLE  
WIRE SIZE: 22-8

- MA04132-1** (25/BAG)
- MA04233-2** (120/TUB)



**240 PIECES ASSORTED WIRE CONNECTORS**  
IN A PLASTIC TUB WITH HANDLE  
**MA06295P**

**ASSORTED WINGED WIRE CONNECTORS**  
IN A PLASTIC TUB WITH HANDLE

**MA10610P**



**WIRE CONNECTOR ASSORTMENT**

**MA03751-2** (50 PCS)  
BLUE, RED, YELLOW, ORANGE & A PLASTIC STORAGE BOX



**SOFT WIRE CONNECTORS**

SPECIAL DEVICES  
SCOTCHLOCKS®

- |                           |                           |
|---------------------------|---------------------------|
| <b>MA03075-1</b> (10/BAG) | <b>MA03077-1</b> (5/BAG)  |
| <b>MA03076-2</b> (50/BAG) | <b>MA03373-2</b> (25/BAG) |
- RED/YELLOW: 16-10/18-12      BLUE/GREY: 12-6/14-8

UL 1015,  
600V, 105C  
  
STRANDED

**MOTOR  
HOOK UP  
WIRE**



PART #	AWG	FT/PKC	PART #	AWG	FT/PKC
<b>RED</b>					
MA03217-2	18	35	MA03217-3	18	100
MA03218-2	16	20	MA03218-3	16	100
MA03219-2	14	15	MA03219-3	14	100
MA03220-2	12	12	MA03220-3	12	100
MA03221-2	10	8	MA03221-3	10	100
<b>BLACK</b>					
MA03222-2	18	35	MA03222-3	18	100
MA03223-2	16	20	MA03223-3	16	100
MA03224-2	14	15	MA03224-3	14	100
MA03225-2	12	12	MA03225-3	12	100
MA03226-2	10	8	MA03226-3	10	100
<b>WHITE</b>					
MA03227-2	18	35	MA03227-3	18	100
MA03228-2	16	20	MA03228-3	16	100
MA03229-2	14	15	MA03229-3	14	100
MA03230-2	12	12	MA03230-3	12	100
MA03231-2	10	8	MA03231-3	10	100
<b>GREEN</b>					
MA03232-2	18	35	MA03232-3	18	100
MA03233-2	16	20	MA03233-3	16	100
MA03234-2	14	15	MA03234-3	14	100
MA03235-2	12	12	MA03235-3	12	100
MA03236-2	10	8	MA03236-3	10	100
<b>BLUE</b>					
MA03237-2	18	35	MA03237-3	18	100
MA03238-2	16	20	MA03238-3	16	100
MA03239-2	14	15	MA03239-3	14	100
MA03240-2	12	12	MA03240-3	12	100
MA03241-2	10	8	MA03241-3	10	100

**HIGH TEMPERATURE GLASS BRAIDED  
SILICONE/RANGE WIRE**

**USED FOR** MOTOR LEADS, TRANSFORMERS, APPLIANCES, ELECTRIC OR OTHER ELECTRICAL CIRCUITS WHERE A FLEXIBLE CONDUCTOR IS REQUIRED TO OPERATE UNDER HIGH TEMPERATURE CONDITIONS AND WHERE MOISTURE IS PRESENT.

400F AND 200C MAX. TEMPERATURE – 600 MAX. VOLTAGE  
14 GAUGE UL 3071 AND 12 GAUGE UL STYLE 3074,  
CSA TYPE SEW-2

**THREE STRANDED 12 & 14 GAUGE WIRE  
RED, WHITE & BLACK**

PART #	LENGTH	PART #	LENGTH
<b>12 GAUGE</b>		<b>14 GAUGE</b>	
MA0512G	5'	MA0514G	5'
MA01012G	10'	MA01014G	10'
MA02512G	25'	MA02514G	25'
MA05012G	50'	MA05014G	50'

**THHN  
(STRANDED OR SOLID)  
WIRE**



PART	STRANDED	PART	SOLID
<b>BLACK</b>			
MA-THHN8B	8 GAUGE	MA-THHNS-10B	10 GAUGE
MA-THHN10B	10 GAUGE	MA-THHNS-12B	12 GAUGE
MA-THHN12B	12 GAUGE	MA-THHNS-14B	14 GAUGE
MA-THHN14B	14 GAUGE	<b>RED</b>	
<b>RED</b>			
MA-THHN8R	8 GAUGE	MA-THHNS-10R	10 GAUGE
MA-THHN10R	10 GAUGE	MA-THHNS-12R	12 GAUGE
MA-THHN12R	12 GAUGE	MA-THHNS-14R	14 GAUGE
MA-THHN14R	14 GAUGE	<b>WHITE</b>	
<b>WHITE</b>			
MA-THHN8W	8 GAUGE	MA-THHNS-10W	10 GAUGE
MA-THHN10W	10 GAUGE	MA-THHNS-12W	12 GAUGE
MA-THHN12W	12 GAUGE	MA-THHNS-14W	14 GAUGE
MA-THHN14W	14 GAUGE	<b>GREEN</b>	
<b>GREEN</b>			
MA-THHN8G	8 GAUGE	MA-THHNS-10G	10 GAUGE
MA-THHN10G	10 GAUGE	MA-THHNS-12G	12 GAUGE
MA-THHN12G	12 GAUGE	MA-THHNS-14G	14 GAUGE
MA-THHN14G	14 GAUGE	UL APPROVED 500' SPOOLS	

USED FOR:  
APPLIANCES  
COIL LEADS  
SWITCHBOARD PANELS  
TRANSFORMERS  
MOTOR LEADS

**3-STRANDED  
CROSS-LINKED  
POLYETHYLENE  
RANGE WIRE**

250F AND 125C MAX. TEMPERATURE – 600 MAX. VOLTAGE  
12 & 14 GAUGE UL TYPE 3173, CSA TYPE CL 1251/AWM  
SINGLE WIRE – RED, BLACK & WHITE

PART #	LENGTH	GAUGE	PART #	LENGTH	GAUGE
MA0512P	5'	12	MA0514P	5'	14
MA01012P	10'	12	MA01014P	10'	14
MA02512P	25'	12	MA02514P	25'	14
MA05012P	50'	12	MA05014P	50'	14

**SINGLE STRAND 12 GAUGE WIRE**

PART #	LENGTH	PART #	LENGTH	PART #	LENGTH
<b>RED</b>		<b>BLACK</b>		<b>WHITE</b>	
MA0HT12R1	5'	MA0HT12B1	5'	MA0HT12W1	5'
MA0HT12R2	10'	MA0HT12B2	10'	MA0HT12W2	10'
MA0HT12R3	25'	MA0HT12B3	25'	MA0HT12W3	25'
MA0HT12R4	50'	MA0HT12B4	50'	MA0HT12W4	50'
MA0HT12R5	100'	MA0HT12B5	100'	MA0HT12W5	100'

**SINGLE STRAND 14 GAUGE WIRE**

PART #	LENGTH	PART #	LENGTH	PART #	LENGTH
<b>RED</b>		<b>BLACK</b>		<b>WHITE</b>	
MA0HT14R1	5'	MA0HT14B1	5'	MA0HT14W1	5'
MA0HT14R2	10'	MA0HT14B2	10'	MA0HT14W2	10'
MA0HT14R3	25'	MA0HT14B3	25'	MA0HT14W3	25'
MA0HT14R4	50'	MA0HT14B4	50'	MA0HT14W4	50'
MA0HT14R5	100'	MA0HT14B5	100'	MA0HT14W5	100'

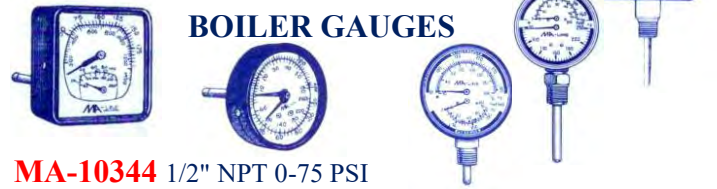


**GAS BALL VALVES**

ALL MODELS HAVE AGA, UL AND CSA APPROVALS  
LEVER HANDLE FORGED BRASS BALL VALVES. STANDARD PORT,  
FULL PORT, 600 PSI, W.O.G, 150 PSI SATURATED STEAM.

- MA-73101** 1/2" OD X 1/2" FPT STRAIGHT (C)
- MA-73102** 5/8" OD FLARE X 3/4" FPT (C)
- MA-73105** 3/8" FPT X 3/8" FPT (D)
- MA-73103** 1/2" FPT X 1/2" FPT (D)
- MA-73104** 3/4" FPT X 3/4" FPT (D)
- MA-73106** 1" FPT X 1" FPT (D)
- MA-73107** 1-1/4" FPT X 1-1/4" FPT STANDARD PORT (B)
- MA-73108** 1-1/2" FPT X 1-1/2" FPT STANDARD PORT (B)
- MA-73109** 2" FPT X 2" FPT STANDARD PORT (B)
- MA-73110** 1-1/4" FPT X 1-1/4" FPT FULL PORT (A)
- MA-73111** 1-1/2" FPT X 1-1/2" FPT FULL PORT (A)
- MA-73112** 2" FPT X 2" FPT FULL PORT (A)

**HEATING SYSTEM  
BOILER GAUGES**



- MA-10344** 1/2" NPT 0-75 PSI  
BOTTOM MOUNT, 4" SQUARE 60F TO 260F (20C TO 120C)
- MA-10345** 1/2" NPT 0-75 PSI  
BACK MOUNT, 4" SQUARE 60F TO 260F (20C TO 120C)
- MA-10346** 1/2" NPT 0-200 PSI  
BOTTOM MOUNT, 4" SQUARE 60F TO 260F (20C TO 120C)
- MA-10347** 1/2" NPT 0-200 PSI  
BACK MOUNT, 4" SQUARE 60F TO 260F (20C TO 120C)
- MA-10348** 1/2" NPT 0-55 PSI  
BOTTOM MOUNT, 3" ROUND 0-125FT. H2O, 70F TO 250F(20C TO 120C), 2" STEM
- MA-10349** 1/2" NPT 0-75 PSI  
BOTTOM MOUNT, 3" ROUND 0-170FT. H2O, 70F TO 320F(20C TO 120C), 3/4" STEM
- MA-10350** 1/4" NPT 0-75 PSI  
BACK MOUNT, 2-1/2" ROUND 60F TO 320F(20C TO 120C)

3/8" I.D. TUBE - 1/2" FIP X 1/2" MIP

- MA-CSSD54-12** 12" LONG
- MA-CSSD54-18** 18" LONG
- MA-CSSD54-24** 24" LONG
- MA-CSSD54-36** 36" LONG
- MA-CSSD54-48** 48" LONG
- MA-CSSD54-60** 60" LONG
- MA-CSSD54-72** 72" LONG

**FLEXIBLE GAS  
CONNECTORS  
AGA & CGA  
CERTIFIED**



COATED  
STAINLESS STEEL

1/2" I.D. TUBE - 3/4" FIP X 3/4" MIP

- MA-CSSC21-12** 12" LONG
- MA-CSSC21-18** 18" LONG
- MA-CSSC21-24** 24" LONG
- MA-CSSC21-36** 36" LONG
- MA-CSSC21-48** 48" LONG
- MA-CSSC21-60** 60" LONG
- MA-CSSC21-72** 72" LONG

INDOOR/OUTDOOR GAS  
CONNECTOR FOR  
RESIDENTIAL AND  
COMMERCIAL GAS  
APPLIANCE

TEMPERATURE RANGE:  
-40F TO 150F

CSA APPROVED

1/2" I.D. TUBE - 1/2" FIP X 1/2" MIP

- MA-CSSC54-12** 12" LONG
- MA-CSSC54-18** 18" LONG
- MA-CSSC54-24** 24" LONG
- MA-CSSC54-36** 36" LONG
- MA-CSSC54-48** 48" LONG
- MA-CSSC54-60** 60" LONG
- MA-CSSC54-72** 72" LONG

POLYMER COATING  
RESISTS SEA SALT,  
UV RAYS, HARSH  
CHEMICAL RESIDUE  
AND BUILDING  
PRODUCTS SUCH AS  
SOLDER FLUX,  
MURIATIC ACID,  
AMMONIA AND  
CHLORINE.

**PROTECTIVE  
BOOT COVERS**



- MA-49091** 2-1/2" RED     **MA-49191** 3-1/8" RED
- MA-49092** 2-1/2" BLUE     **MA-49192** 3-1/8" BLUE
- MA-49090** 2-1/2" SET     **MA-49193** 3-1/8" SET

**3/4" PRESSURE TEST GAUGE**

- MA-17255** 0-15#
- MA-17256** 0-30#
- MA-17257** 0-100#



**SANDCLOTH  
& PADS**



- MA-04625** ABRASIVE PADS (10/BOX)
- MA-90303** 1-1/2" X 10YRDS. SAND CLOTH
- MA-90304** 1-1/2" X 25YRDS. SAND CLOTH
- MA-90502** 1-1/2" X 5YRDS. OPEN MESH
- MA-90503** 1-1/2" X 10YRDS. OPEN MESH

**MAXICAP COVERS**



- MAXICAP3R** MAXITROL 325-3 SERIES
- MAXICAP5R** MAXITROL 325-5 SERIES
- MAXICAP7R** MAXITROL 325-7 SERIES

Put the lid on call-backs. Not only does the Maxicap prevent regulator lockup due to ice and snow blockage of the vent, it also prevents insects or build up of mud and debris from clogging the vent. No tools required. UV Safe.



REFRIGERANT RECOVERY CYLINDERS ARE EQUIPPED WITH A LIQUID/VAPOR "Y" VALVE AND 3/4" OPENING.

**OXYGEN TANKS**

- T 002** 20 CU. FT.
- T 003** 40 CU. FT.
- T 032** 55 CU. FT.
- T 080** 80 CU. FT.
- T 125OX** 125 CU. FT.

**NITROGEN TANKS**

- T 027** 20 CU. FT.
- T 005** 40 CU. FT.
- T 076** 55 CU. FT.
- T 085** 80 CU. FT.
- T 125N** 125 CU. FT.

**ACETYLENE TANKS**

- T 019** MC TANK
- T 018** B TANK

**ALL TANKS ARE MADE OF STEEL & SHIPPED EMPTY**

**REFRIGERANT RECOVERY CYLINDERS**

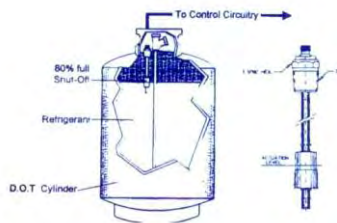
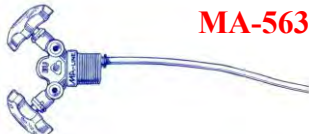
- MA-400RC30** 30# FOR R410A
- MA-400RC50** 50# FOR R410A
- MA-400RC123** 123# FOR R410A

**CO2 TANK**

- T 0210** 5# REINSPECTED
- T 0220** 10# REINSPECTED
- T 0230** 15# REINSPECTED
- T 0240** 20# REINSPECTED

CO2 TANKS ARE USED, REINSPECTED & INCLUDES NEW VALVES

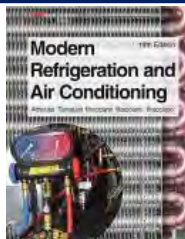
**Y-VALVE FOR 30# AND 50# RECOVERY TANK MA-563211**



**REFRIGERANT CYLINDER LIQUID LEVEL SWITCH**

**MA-128500**

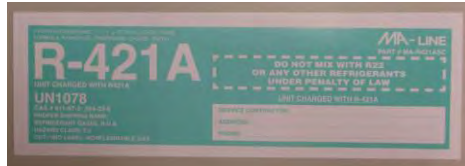
DESIGNED FOR 30# & 50# WORTHINGTON AND MANCHESTER CYLINDERS ONLY.



**MODERN REFRIGERATION & A/C BOOK**

LATEST EDITION IN HARD COVER

**MA-340-5**



**SERVICE CONTRACTOR REFRIGERANT LABELS**

A MUST FOR EVERY SERVICE CONTRACTOR WHO FIELD-SERVICES APPLIANCES AND REFRIGERATION

5 PACK

**MA-SDF1SC** SAFE FOR DISPOSAL

**MA-RECTSC** EVACUATION TAG

**MA-R407CSC** R407C-LIGHT BROWN

**MA-R421ASC** R421A-GREEN YELLOW

**REFRIGERANT LABELS**

ADD -50 AFTER THE PART NUMBER TO ORDER A PACKAGE OF 50

10 PACK

- MA-SR11** OSHA ORANGE
- MA-SR12** BLACK
- MA-SR22** OSHA SAFETY GREEN
- MA-SR113** DARK PURPLE
- MA-SR114** BLUE
- MA-SR134A** LIGHT BLUE
- MA-SR401A** CORAL
- MA-SR401B** DULL ALUMINUM
- MA-SR402A** BRASS
- MA-SR402B** ERIN GREEN
- MA-SR404A** CITRUS ORANGE
- MA-SR406A** OSHA BLUE
- MA-SR408A** MEDIUM PURPLE

10 PACK

- MA-SR409A** DESERT BEIGE
- MA-SR410A** BURGUNDY
- MA-SR417A** GREEN
- MA-SR422B** MEDIUM BLUE
- MA-SR422D** (PANTONE) BLUE
- MA-SR438A** BLUE JAY
- MA-SR500** OSHA SAFETY YELLOW
- MA-SR502** VIOLET
- MA-SR507** TEAL BLUE
- MA-SHCFC123** CHROME ALUMINUM
- MA-SAB1** ALKYL BENZENE
- MA-SMO1** MINERAL OIL
- MA-SPA1** PAG OIL
- MA-SPO1** POLYOL ESTER

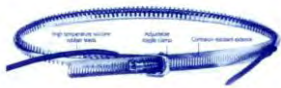


**HAND HELD  
SCALE &  
TAPE  
MEASURE**

**MA-HS50**

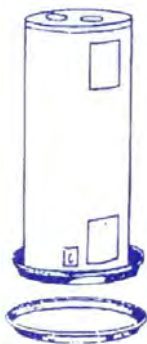
2-1/2" DIAL  
0-50LBS IN 1/LB INCREMENTS  
LIGHTWEIGHT

**CRANKCASE  
UL HEATERS CSA**



- MA-CH100** 240V, 50WATT  
MIN. 30-3/16" MAX. 37"
- MA-CH101** 240V, 54WATT  
MIN. 27-1/16" MAX. 34-1/4"
- MA-CH101-1** 208V, 54WATT  
MIN. 27-1/16" MAX. 34-1/4"
- MA-CH101-2** 120V, 54WATT  
MIN. 27-1/16" MAX. 34-1/4"
- MA-CH101-3** 480V, 54WATT  
MIN. 27-1/16" MAX. 34-1/4"
- MA-CH102** 240V, 60WATT  
MIN. 25-3/4" MAX. 32-9/16"
- MA-CH102-1** 208V, 60WATT  
MIN. 25-3/4" MAX. 32-9/16"
- MA-CH102-2** 120V, 60WATT  
MIN. 25-3/4" MAX. 32-9/16"
- MA-CH103** 240V, 45WATT  
MIN. 24-3/4" MAX. 31-9/16"
- MA-CH103-2** 120V, 45WATT  
MIN. 24-3/4" MAX. 31-9/16"
- MA-CH135** 240V, 45WATT  
MIN. 28-3/16" MAX. 35-5/8"

WATER  
HEATER PANS



- MA-WHP22**  
20" - 22" OD DIA.
- MA-WHP24**  
22" - 24" OD DIA.
- MA-WHP26**  
24" - 26" OD DIA.
- MA-WHP28**  
26" - 28" OD DIA.
- MA-WHP32**  
30" - 32" OD DIA.



**MA-LINE  
DIGITAL  
SCALE**

CAPACITY: 0-260LBS

**MA-49052B**  
SCALE

**MA-49052AUS**  
AUSTRALIAN  
POWER CORD

**MA-49052EPC**  
EUROPEAN  
POWER CORD

99% ACCURACY - GRADUATION .001 OZ. (0.05KG) -  
PLATFORM SIZE: 10" X 10" WITH RUBBER PAD -  
POWER SUPPLY 110V, 60HZ/220V, 50HZ - AC POWER  
ADAPTOR INCLUDED - (1) 9V BATTERY INCLUDED -  
MEASURES LBS, OZ. & KGS

**SCALES NOT LEGAL FOR TENDER**



DIAL  
0 TO 250 LBS.

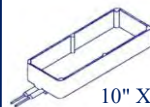
**MA-8250A**

1 LB.  
INCREMENTS

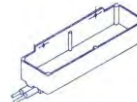
**250# MECHANICAL PLATFORM  
SCALE**



**CONDENSATE  
PANS**



10" X 4" X 2-7/8"



10" X 4-1/2" X 3-3/8"

- MA-CP35-120** 38OZ. CAPACITY, 160W, 120V
- MA-CP35-240** 38OZ. CAPACITY, 160W, 220V

Made of die-cast aluminum, the MA-Line Condensate Evaporator Pan eliminates floor drains. The pan is self-standing and all terminals are covered with moisture proof rubber. The evaporation rate is 8 oz. per hour at 72°F room temperature. The units heating element is sealed in 1/4" bundyweld tubing.

**DRAIN PANS**

**Hot Water Heater Pans**, made from tough, durable plastic. Easy to install and will not leak. Rustproof, one piece construction includes a 1" drain fitting.

**Washing Machine Pans**, fits under washing machine to protect floors and carpet from water overflow. Easy to install and includes a 1" drain fitting.

**HAND HELD  
DIGITAL  
SCALE**



**MA-49051**

LBS/KGS SWITCH  
0-50LBS  
AUTO SHUT OFF IN 2 MIN.  
ACCURACY ±2%  
INCLUDES 9V BATTERY

**REFRACTOMETERS**



- MA-REF700** OIL
- MA-REF401F** GLYCOL (F)
- MA-REF401C** GYLCOL (C)

-This handheld refractometer, **MA-REF700**, is easy to use and accurately measures the mineral oil in a polyolester (POE) lubricant.

**SPECIFICATIONS:** Range 1.435-1.520nD (with 3 scales)

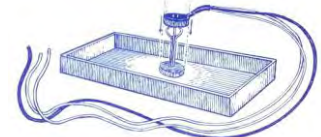
-The **MA-REF401F**, measures the freezing point of ethylene or propylene glycol. The two Fahrenheit non-linear scales cover -60F to 32F for ethylene glycol and propylene glycol. The resolution of the temperature scale is 10F.

-The Celsius reading, **MA-REF401C** is also available.

**UNIVERSAL DRAIN  
HEATER**

**MA-32950**

REFRIGERATION DRAIN HEATER  
PREVENTS DRAIN TUBE ICING &  
PLUGGING  
CAN BE USED ON ALL MODELS AND  
MAKES OF REFRIGERATORS



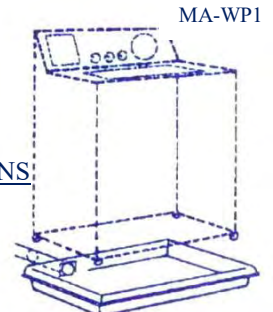
WASHING  
MACHINE PAN

**MA-WP1**  
29" - 27" ID DIM.

AUXILIARY  
CONDENSATE PANS:

**MA-CP1**  
28-3/4" X 33-3/4"

**MA-CP2**  
17" X 39-3/4"



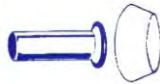
**PLASTIC "Y" STRAINERS**



"Y" Strainer especially designed for removing sediment in small flow applications. Typical uses include: beverage dispensing, beverage cooling, vending machines, power humidifiers and ice machines. FDA approved, 125lbs. corrosion free 100 mesh screen plug which is easily removed for cleaning.

**MA-S14** 1/4" FPT      **MA-S38** 3/8" FPT

**DELRIN SLEEVE AND BRASS INSERT**



**MA-DS4** 1/4" DELRIN SLEEVE FOR 1/4" OD PLASTIC TUBING (25/PKG)  
**MA-DS6** 3/8" DELRIN SLEEVE FOR 3/8" OD PLASTIC TUBING (25/PKG)  
**MA-BI4** 1/4" BRASS INSERT 1/4" OD PLASTIC TUBING (25/PKG)  
**MA-BI6** 3/8" BRASS INSERT FOR 3/8" OD PLASTIC TUBING (25/PKG)

**HEAT GUN AND HEAT GUN KIT**



**MA02525-2**  
**HEAT GUN ONLY**  
**MA02525-3**  
**HEAT GUN KIT**  
INCLUDES: HEAT GUN, SCRAPER, 3 ASSORTED SCRAPPING STYLES & 4 ASSORTED BLOWER NOZZLES  
**MA02525-EUKIT**  
**EUROPEAN HEAT GUN KIT**  
SAME AS ABOVE WITH EUROPEAN CONTINENTAL PLUG

**THREADED ROD, NUTS & WASHERS**



THREADED ROD, PLAIN STEEL

**MA-TR14** 1/4" X 6' - 20  
**MA-TR516** 5/16" X 6' - 18  
**MA-TR38** 3/8" X 6' - 16  
**MA-TR12** 1/2" X 6' - 13

NUTS AND WASHERS ARE 10/PKG AND PRICE PER PKG.

STEEL BRIGHT ZINC PLATED HEX NUTS FOR THREADED ROD

**MA-N14** 1/4" - 20  
**MA-N516** 5/16" - 18  
**MA-N38** 3/8" - 16  
**MA-N12** 1/2" - 13

STEEL BRIGHT ZINC PLATED USS FLAT WASHERS FOR THREADED ROD

**MA-W14** 1/4"  
**MA-W516** 5/16"  
**MA-W38** 3/8"  
**MA-W12** 1/2"



**ICEMAKER & HUMIDIFIER HOOK-UP KIT**



**MA-VIMK3** SELF PIERCING SADDLE VALVE MEETS NSF REQUIREMENTS  
**MA-VIMK2** SELF-TAPPING SADDLE VALVE - CLAMP KIT - DOES NOT MEET NSF REQUIREMENTS  
**MA-IMK1** HUMIDIFIER KIT - INCLUDES SELF PIERCING SADDLE VALVE, 25' OF 1/4" OD POLYETHYLENE TUBING.

**COPPER ICE MAKER AND HUMIDIFIER HOOK-UP KIT**



**MA-CIMK2**  
COPPER ICE MAKER

Meets NSF Requirements. Copper Tube Kit comes complete with 24' of copper tube and self tapping saddle valve, 1/4" x 1/8" compression x MIP connector, 1/4" compression union, 1/4" x 1/8" compression x MIP Elbow. Self-tapping valve installs on copper tube lines from 3/8" OD to 1-1/8" OD. No drilling required. Stainless steel pins prevent plug-ups and contamination.

**FLAME SHIELDS**



**MA-1500** 1500F (850C)  
**MA-2300** 2300F (1260C)

**CARBON MONOXIDE DETECTOR**

**MA-HU1**

**HOW DO I TEST?** Remove from the sealed pack only when ready to use. If CO is present, the spot will turn gray or black. The spot will turn back to its original color when the air is clear of CO. If spot darkens after several months, replace the CO detector. Replace once per heating season. The shelf life in an unopen package is 3 years.

**HOW FAST DOES IT WORK?**  
(Based on 60% Relative Humidity)

CONCENTRATION	REACTION TIME
100ppm (.010%)	15-45 minutes
200ppm (.020%)	4-15 minutes
400ppm (.040%)	2-4 minutes
600ppm (.060%)	1-2 minutes

**NOTE:**  
Reaction time is slightly faster when damp and slightly slower when dry. Even the slightest gray color indicates a dangerous carbon monoxide level.



PHONE: 1-800-956-8220  
PHONE: 1-847-956-8200

MA-LINE 2018 CATALOG  
[www.ma-line.com](http://www.ma-line.com)

FAX: 1-800-336-8291  
FAX: 1-847-956-8237



### EXPANDING POLYURETHANE FOAM SEALANT CLOSED CELL FOAM

- MA-1-12X** SINGLE COMPONENT 12OZ. (12/CS)
  - MA-11-12X** TWO COMPONENT 12OZ. (12/CS)
- SOLD PER CASE/PRICE PER PIECE

The MA-Line Seal Foam is a single component polyurethane foam used as an insulating sealant. Create a durable air tight seal that will minimize air infiltration, outdoor noise, pest infiltration, and the transfers of odors. When applied it reduces the risk of damage from condensation, moisture and ice buildup. It reduces air conditioning and heating cost because it provides an excellent R-Value. MA-Line Seal Foam can provide greater sealing properties compared to other types or styles of sealants. Unlike caulks and other style sealants, MA-Line Seal Foam assumes the shape of cavity and forms an air tight seal. Does not shrink and will retain sealant properties for many years to come. Product is a UL classified sealant #13655 and Ashrea 90-75 listed.

The two component polyurethane foam is similar to the single component foam, but acts much faster, expands more, and cures much faster. Great for spraying overhead, as it adheres very readily to duct board and sheet metal. Each package provides 12 linear board feet or 1 cubic foot of foam. Ozone friendly closed cell product contains no UREA formaldehyde, sets up in 45 seconds and cures within 5 minutes.



MA-101  
**MA-101** EZ THRUST CAULK GUN



MA-102  
**MA-102** HEAVY DUTY DELUXE CAULK GUN

### SILICONE CAULK AND HIGH TEMP. SILICONE CAULK



- MA-SSC-CK** CLEAR CAULK (12/CS) SOLD PER CASE PRICE PER PIECE
- MA-SSG-CK** GRAY CAULK (12/CS)
- MA-SSW-CK** WHITE CAULK (12/CS)
- MA-HTSS-R** RED HIGH TEMPERATURE CAULK (12/CS)

MA-Line Silicone Caulk is waterproof and weatherproof, FDA approved, permanently flexible, -60F to 450F, insulates and resealable. It meets FDA/USDA requirements for use in establishments operating under Federal Meat and Poultry Inspection Program. CFR 177.2600

MA-Line High Temperature Silicone Caulk is waterproof and weatherproof, FDA approved, permanently flexible, -84F to 500F, insulates thermally and electrically. Resealable. It meets FDA/USDA requirements for use in establishments operating under Federal Meat and Poultry Inspection Program. CFR 177.2600

FORMULATED TO PERFORM AT TEMPERATURES RANGING FROM -84F TO 500F (-65C TO 260C) FOR CONTINUOUS OPERATION AND TO 600F FOR INTERMITTENT EXPOSURE.



### BLACK FLASHING

- MA-BFC** 12.8 OZ CARTRIDGE (12/CS)
- MA-BF1** 1GALLON CAN (4/CS)

ALL WEATHER-NEVER HARDENS  
MEETS FEDERAL SPECIFICATIONS #SS-C-153C  
SOLD PER CASE/PRICE PER EACH

### MASTERFLASH

- MA-14050** 1/4" - 2" FITS 4-1/2" X 4-1/2" BASE
- MA-14051** 1-1/4" - 3" FITS 6" X 6" BASE
- MA-14052** 1/4" - 4" FITS 8" X 8" BASE
- MA-14053** 3" - 6" FITS 10" X 10" BASE
- MA-14054** 4" - 7" FITS 11" X 11" BASE
- MA-14055** 5" - 9" FITS 12" X 12" BASE
- MA-14056** 6" - 11" FITS 14" X 14" BASE
- MA-14057** 7" - 13" FITS 17" X 17" BASE



### NO-CAULK ROOF FLASHINGS

- MA-11830** 1/2"-3/4"-1" SOLAR GALVANIZED BASE
- MA-11840** 1-1/4"-1-1/2" NON-CAULK GALVANIZED BASE
- MA-11853** 2" GALVANIZED BASE
- MA-11866** 3" GALVANIZED BASE
- MA-11879** 4" GALVANIZED BASE
- MA-14012** 2" ALL-FLEXIBLE, RUBBER BASE
- MA-14025** 2-1/2" ALL-FLEXIBLE, RUBBER BASE



This exclusive one-piece construction insures a positive leakproof installation every time. The specially formulated elastomeric collar allows the vent stack plenty of room for expansion and contraction. Not designed for hot-mopped or built up roofs. The All-Flexible flashings (MA-14012 & MA-14025) are manufactured from a specially formulated elastomer material which is extremely flexible and durable. Also allows room for the vent stack to expand and contract without disrupting the seal between pipe and flashing collar.

### FURNACE CEMENT

- MA-HT1** 1 GAL. (4/CS)
  - MA-HT64** 64OZ. (6CS)
- ASBESTOS FREE, GRAY, HIGH HEAT CEMENT  
TEMPERATURE RATING: 0F TO 3000F  
SOLD PER CASE/PRICE PER EACH



### REGULAR CEMENT FOR PVC PIPE AND FITTINGS

- MA-31012** 4 OZ. CAN (24/CS)
- MA-31013** 8 OZ. CAN (24/CS)
- MA-31014** 16 OZ. CAN (24/CS)
- MA-31015** 32 OZ. CAN (12/CS)

ALL PURPOSE CEMENT FOR ABS, PVC, CPVC

- MA-30818** 4 OZ. CAN (24/CS)
- MA-30821** 8 OZ. CAN (24/CS)
- MA-30834** 16 OZ. CAN (24/CS)
- MA-30847** 32 OZ. CAN (12/CS)

ALL WEATHER PVC CEMENT

- MA-31132** 16 OZ. CAN (24/CS)
- MA-31133** 32 OZ. CAN (12/CS)



**ALL PURPOSE CEMENT:** Heavy bodied clear cement for use on ABS, PVS, PVC, or CPVC pipe & fittings. Flows freely & provides a thick layer of cement on the pipe. Exceeds ASTM D2564, D2846, D-2235 and F-493. Application temperature 40F to 100F.

**REGULAR CLEAR CEMENT:** For PVC pipe and fittings, up to 4" SCH 40 & up to 2" for SCH 80 potable water pressure pipe, gas conduit, drain waste & vent pipe. Application temperature 40F to 100F.

**CLEAR ALL WEATHER PVC CEMENT:** For PVC pipe, good in all types of weather.

**PIPE JOINT COMPOUND WITH TEFLON**  
SOLD PER CASE PRICE PER PIECE

- MA-31229** 1 FL.OZ. TUBE (12/CS)
- MA-31230** 4 FL.OZ. WITH BRUSH TOP (12/CS)
- MA-31231** 8 FL.OZ. WITH BRUSH TOP (12/CS)

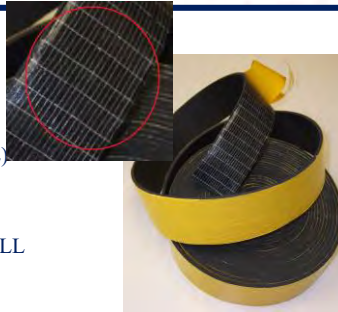
A white, non-hardening, non-separating Teflon paste seals all threaded connections against leakage for internal pressure. Withstands 10,000 psi at -100F to 600F and formulated for use on water steam, natural and LP gas, oil, caustics, or dilute acid lines. May be used with PVC, CPVC, ABS, Cyclocac, Polypropylene, iron, steel or copper threads. **Do not use on oxygen, fluorine, or molten metal lines.**



**REINFORCED FOAM TAPE**

- MA-FT1A** (12/CASE)
- 1/8" X 2" X 30'

**FEATURES:**  
ADHERES FIRMLY TO ALL METALS, PREVENTS CONDENSATION AND DRIPPING – CAN BE USED ON HOT OR COLD PIPES – WORKS WELL AROUND VALVES AND PIPES  
SOLD PER CASE PRICE PER EACH



**CORK TAPE**

- MA-CT1** (12/CASE)
- 1/8" X 2" X 30'

**FEATURES:**  
ADHERES FIRMLY TO ALL METALS, PREVENTS CONDENSATION AND DRIPPING – CAN BE USED ON HOT OR COLD PIPES  
SOLD PER CASE PRICE PER EACH



**TEFLON THREAD SEAL TAPE**

- MA-C950** (48/CASE)
- 1/2" X 520"
- MA-C950-4** (4/PKG)
- 1/2" X 520"

SOLD PER PIECE/PRICE PER PIECE  
ORDER 48 & GET A DISPLAY BOX FREE

**FEATURES:**  
MA-LINE OFFERS MORE VALUE WITH OUR TEFLON BRAND, HIGH QUALITY SEAL TAPE.



**ALUMINUM FOIL TAPE**

- MA-322-2** (24/CASE)
- 2" X 50 YARDS
- MA-322-3** (16/CASE)
- 3" X 50 YARDS

**FEATURES:**  
DESIGNED FOR TAPING JOINTS AND SEAMS TO KEEP OUT MOISTURE AND VAPOR ON FOIL JACKETING INSULATION  
TEMPERATURE RANGE: 32F TO 302F (0C TO 150C)



**PIPE JOINT COMPOUND**

- MA-31226** 1 FL.OZ. TUBE (12/CS)
- MA-31227** 4 FL.OZ. BRUSH TOP (12/CS)
- MA-31228** 8 FL.OZ. BRUSH TOP (12/CS)

A fast set non-hardening paste which lubricates and seals threaded joints. Non-toxic and may be used on water, natural gas, steam and air lines. It's perfect for applying gaskets to flanges.



SOLD PER CASE  
PRICE PER  
PIECE

**CONDENSATE PVC TRAPS**

- MA-12535** 1/2" PVC P-TRAP
- MA-12537** 3/4" PVC P-TRAP
- MA-12545** 1/2" PVC R-TRAP
- MA-12547** 3/4" PVC R-TRAP
- MA-12548** 3/4" PVC J-TRAP



**DUCT TAPE**

2" X 60 YARDS (24/CASE)

- MA-398** SILVER
- MA-398BL** BLACK

SOLD PER CASE PRICE PER PIECE

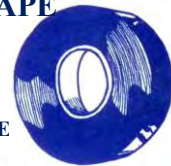
**FEATURES:**  
INDUSTRIAL GRADE – 8 MIL THICKNESS – ADHESIVE NATURAL RUBBER



**MA-LINE ELECTRICAL TAPE**

- MA-C6408**
- 3/4" X 60' (10/PKG)
- MA03364-2**
- 3/4" X 60' (3/PKG)

SOLD PER PIECE  
PRICE PER  
PIECE



**3M PREMIUM ELECTRICAL TAPI & VINYL COLOR CODING TAPE**

- MA-C6433** SUPER 33+ BLACK/7 MIL THICKNESS
- MA-C6488** SUPER 88+ BLACK/8.5 MIL THICKNESS
- MA-C6435G** GRAY/7 MIL THICKNESS
- MA-C6435B** BLUE/7 MIL THICKNESS
- MA-C6435O** ORANGE/7 MIL THICKNESS
- MA-C6435R** RED/7 MIL THICKNESS
- MA-C6435W** WHITE/7 MIL THICKNESS
- MA-C6435Y** YELLOW/7 MIL THICKNESS
- MA-C6435GN** GREEN/7 MIL THICKNESS
- MA-C6435BR** BROWN/7 MIL THICKNESS



SOLD PER CASE  
PRICE PER  
PIECE

MADE IN USA – UL & CSA LISTED –  
3/4" X 66' – UV RESISTANT  
10 ROLLS PER CARTON





**DIMENSIONS:**  
18" X 33.5" X 24"  
**MATERIAL:**  
ZINC COATED STEEL  
**FINISH:**  
POWDER COATING  
  
**NOT TO EXCEED  
450LBS.**

**MINI SPLIT CONDENSING BRACKET**

**MA-SB35**

- (4) ANCHORING BOLT SCREWS
- (4) ANTI-VIBRATION PAD

**BUILT IN LEVEL**

FOR ACCURATE & EASY INSTALLATION



**AC MOUNTING BRACKETS**

**MA-ACB36 (A)36" (B)16" (C) 31"**

**MA-ACB42 (A)42" (B)16" (C) 36"**

**MA-ACB48 (A)48" (B)18" (C) 38"**

INCLUDES: 4 BOLTS, 4 ANCHORS AND 4 WASHERS

MAX. LOAD: 550 POUNDS

FINISH: POWDER COATING

ROD STEEL: 2.78MM THICKNESS AND 3.8CM WIDTH



**MOTOR MOUNTING BRACKET**

**INCLUDES:**  
GROMMETS AND EYELETS

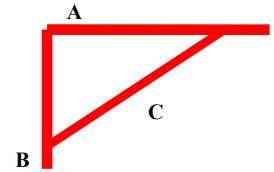
**MA-FM50 5"**

**MA-FM55 5.5"**

For use with direct Drive Blower Motors



Mounting Accessories



**MOTOR MOUNTING BRACKET**

**INCLUDES:**  
GROMMETS AND EYELETS

**MA-FM554A 5-5/8" (4 LEGS)**

For use with direct Drive Blower Motors

**MOUNTING BRACKETS**  
INCLUDES: BRACKET, SLEEVES, STEEL SCREWS, & RUBBER GROMMETS

**MA60042 5" ID -42 FRAME**

**MA60048 5.5"-48 FRAME**

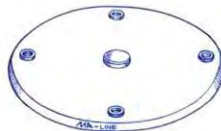


**CONDENSER FAN RAIN SHIELD**

**MA61000 1/2"ID X 6.88"OD**

**MA61056 5/8"ID X 6.88"OD**

**MA80105 1/2"ID X 7.00"OD**



**LUG MOUNTING BRACKETS**

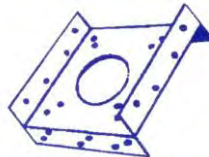
**MA80293  
FOR 5.5" MOTORS**



**RUBBER GROMMET KIT**

**MA60049K**

Used for 3/4" slots  
Screws & sleeves included



**RHEEM MOUNTING BRACKET**  
**MA60306K**

Replaces cables used to mount motors on Rheem Condensing units



**MOUNTING BRACKET**

**MA68004**

Adjustable bracket for unit bearing motors.



**FAN BLADE PITCH  
GAUGE  
MA-PG1**



**PLASTIC REPLACEMENT  
VENT HOOD FAN BLADES**

DIRECT REPLACEMENT FOR DUCTED AND  
NON-DUCTED VENT HOODS

**MA-CW665**

6-5/8" DIAMETER, CW ROTATION, PITCH 12,  
SHAFT SIZE 7/32", 5 BLADES

**V-BELTS  
MADE TO PERFORM**

3L FHP V-BELTS 3/8" TOP WIDTH 7/32" THICK  
4L (A) V-BELTS 1/2" TOP WIDTH 11/32" THICK  
5L (B) V-BELTS 21/32" TOP WIDTH 13/16" THICK



PART #	OUTSIDE LENGTH	PART #	OUTSIDE LENGTH
MA3L310	31	MA4L230	23
MA3L320	32	MA4L240	24
MA3L330	33	MA4L250	25
MA3L340	34	MA4L260	26
MA3L350	35	MA4L270	27
MA3L360	36	MA4L280	28
MA3L370	37	MA4L290	29
MA3L380	38	MA4L300	30
MA3L390	39	MA4L310	31
MA3L400	40	MA4L320	32
MA3L410	41	MA4L330	33
MA3L420	42	MA4L340	34
MA3L430	43	MA4L350	35
MA3L440	44	MA4L360	36
MA3L450	45	MA4L370	37
MA3L460	46	MA4L380	38
MA3L470	47	MA4L390	39
MA3L480	48	MA4L400	40
		MA4L410	41
MA4L170	17	MA4L420	42
MA4L180	18	MA4L430	43
MA4L190	19	MA4L440	44
MA4L200	20	MA4L450	45
MA4L210	21	MA4L460	46
MA4L220	22	MA4L470	47

**LIGHT WEIGHT, GENERAL  
PURPOSE REPLACEMENT  
PLASTIC FAN BLADES**



Our 4 and 5 blade general purpose replacement fan blades have diameters ranging from 3" to 8". They are available for 1/8", 3/16", 1/4" & 5/16" shaft sizes. The rotation is identified by color. White is CW (clockwise) rotation and grey is for CCW (counter clockwise) rotation. All are with integral hub.

PART#	ROTATION	PITCH	SHAFT SIZE	#OF BLADES	DIA. INCHES
MA-CW300	CW	32	1/8"	4	3
MA-CW301	CW	32	3/16"	4	3
MA-CW401	CW	27	1/8"	5	4
MA-CCW403	CCW	27	1/8"	5	4
MA-CCW404	CCW	27	3/16"	5	4
MA-CW406	CW	35	1/8"	4	4
MA-CW501	CW	22	3/16"	5	5
MA-CW502	CW	22	1/4"	5	5
MA-CW503	CW	22	5/16"	5	5
MA-CCW505	CCW	22	1/4"	5	5
MA-CW601	CW	26	3/16"	4	6
MA-CCW605	CCW	24	1/4"	4	6
MA-CCW606	CCW	24	5/16"	4	6
MA-CW650	CW	24	3/16"	5	6-1/2
MA-CW652	CW	24	5/16"	5	6-1/2
MA-CW701	CW	30	1/4"	5	7
MA-CCW703	CCW	25	1/4"	5	7
MA-CW801	CW	38	1/4"	5	8
MA-CW802	CW	38	5/16"	5	8

PART #	OUTSIDE LENGTH	PART #	OUTSIDE LENGTH	PART #	OUTSIDE LENGTH
MA4L480	48	MA4L720	72	MA5L510	51
MA4L490	49			MA5L520	52
MA4L500	50	MA5L290	29	MA5L530	53
MA4L510	51	MA5L300	30	MA5L540	54
MA4L520	52	MA5L310	31	MA5L550	55
MA4L530	53	MA5L320	32	MA5L560	56
MA4L540	54	MA5L330	33	MA5L570	57
MA4L550	55	MA5L340	34	MA5L580	58
MA4L560	56	MA5L350	35	MA5L590	59
MA4L570	57	MA5L360	36	MA5L600	60
MA4L580	58	MA5L370	37	MA5L610	61
MA4L590	59	MA5L380	38	MA5L620	62
MA4L600	60	MA5L390	39	MA5L630	63
MA4L610	61	MA5L400	40	MA5L640	64
MA4L620	62	MA5L410	41	MA5L650	65
MA4L630	63	MA5L420	42	MA5L660	66
MA4L640	64	MA5L430	43	MA5L670	67
MA4L650	65	MA5L440	44	MA5L680	68
MA4L660	66	MA5L450	45	MA5L690	69
MA4L670	67	MA5L460	46	MA5L700	70
MA4L680	68	MA5L470	47	MA5L710	71
MA4L690	69	MA5L480	48	MA5L720	72
MA4L700	70	MA5L490	49		
MA4L710	71	MA5L500	50		

**LOW PROFILE STYLE**

INCLUDES:  
SOLID BASE & RING BASE



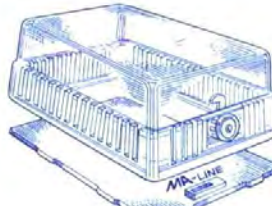
**MA-BTGDK** CLEAR PLASTIC  
**MA-BTGDB** BRONZE PLASTIC  
**MA-F336** UNIVERSAL KEY

INSIDE DIMENSIONS:  
DUAL SOLID BASE:  
4-1/4"H x 7-5/8"W x 2-1/8"D  
DUAL RING BASE:  
4-1/8"H x 7-1/16"W x 2-1/4"D

**THERMOSTAT COVERS**

**DELUXE SERIES**

INCLUDES:  
SOLID BASE & RING BASE



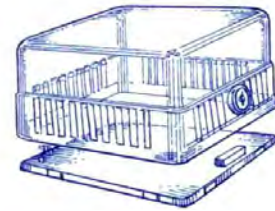
**MA-BTGRK** CLEAR PLASTIC  
**MA-F336** UNIVERSAL KEY

INSIDE DIMENSIONS:  
SOLID BASE:  
6-3/8"H x 3-1/2"W x 3"D  
RING BASE:  
6-3/8"H x 3-1/2"W x 3-1/4"D

The Deluxe Series is ideal for horizontal and vertical standard size wall thermostats.

**SMALL & COMPACT**

INCLUDES:  
SOLID BASE



**MA-BTGEK** CLEAR PLASTIC  
**MA-F336** UNIVERSAL KEY

INSIDE DIMENSIONS:  
SOLID BASE:  
3-1/2"H x 3-7/8"W x 2-1/2"D

**MEDIUM SIZE**

MA-BTGM  
INCLUDES:  
SOLID & RING BASE



**MA-BTGM**  
CLEAR PLASTIC  
**MA-F336**  
UNIVERSAL KEY

INSIDE DIMENSIONS:  
SOLID BASE:  
4-3/8"H x 5-1/4"W x 3"D  
RING BASE:  
4-5/8"H x 5-1/4"W x 3-1/4"D

**UNIVERSAL SERIES**

MA-BTGUK2

MA-BTGM  
MA-BTGUM



**MA-BTGUK2** CLEAR PLASTIC  
INCLUDES A **RING** AND **SOLID** BASE  
**MA-BTGM** BEIGE, METAL  
INCLUDES **SOLID** BASE  
**MA-BTGUM** BEIGE, METAL  
INCLUDES **RING** BASE  
**MA-F336** UNIVERSAL KEY

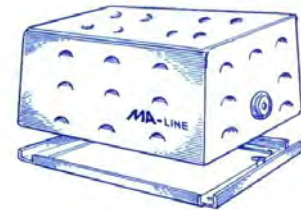
PLASTIC INSIDE DIMENSIONS:

SOLID BASE: 8-1/4"H x 5-3/8"W x 3-1/2"D  
RING BASE: 8-1/8"H x 4-5/8"W x 3-5/8"D

METAL INSIDE DIMENSIONS:

SOLID BASE: 7-1/4"H x 5-3/8"W x 3-1/2"D  
RING BASE: 6-3/4"H x 4-1/4"W x 3-9/16"D

**TAMPER PROOF SERIES**

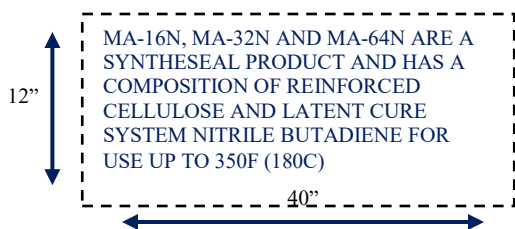


**MA-BTG54VL** BEIGE,  
METAL, SOLID BASE  
**MA-BTG54VLW** BEIGE,  
METAL, RING BASE  
**MA-F336** UNIVERSAL KEY

INSIDE DIMENSIONS:

SOLID BASE:  
6-1/4"H x 4-3/4"W x 3"D  
RING BASE:  
6"H x 3-13/16"W x 3-1/8"D

The Tamper Proof Series is strong and completely tamper proof. This strong thermostat cover can be mounted horizontal or vertical.



MA-16N, MA-32N AND MA-64N ARE A SYNTHESAL PRODUCT AND HAS A COMPOSITION OF REINFORCED CELLULOSE AND LATENT CURE SYSTEM NITRILE BUTADIENE FOR USE UP TO 350F (180C)

**GASKET MATERIAL**

**MA-16N** 1/16" NON ASBESTOS  
**MA-32N** 1/32" NON ASBESTOS  
**MA-64N** 1/64" NON ASBESTOS  
**MA-16RR** 1/16" NON ASBESTOS  
TEMP. -20F TO 120F, RED RUBBER  
24" X 36" SMOOTH FINISH



### RUBBER STRAPS

The "EPDM Rubber Tie Down" rubber is oil, ozone and chemical resistant. It will not fade in ultra violet light and can be used in temperatures ranging from 20°F to 120°F.

- MA-1109** 10" MAX.SAFE STRETCH 15"
- MA-1115** 15" MAX.SAFE STRETCH 22"
- MA-1122** 20" MAX.SAFE STRETCH 32"
- MA-1131** 31" MAX.SAFE STRETCH 46"
- MA-1141** 41" MAX.SAFE STRETCH 62"
- MA-76110** ASSORTED RUBBER STRAPS  
(2) 10", (3) 15", (3) 20", & (2) 31"

### NYLON STRAPS

- MA-S30** 30"
- MA-S60** 60"
- MA-S144** 144"
- MA-RS300**

15" RATCHETING TIE DOWN STRAP



### SHOP WIPES

**MA-SW70C-6**  
6/CTN SOLD BY CASE  
PRICE PER EACH

75 TOWELS PER CONTAINER – NO NEED FOR WATER – SAFE FOR THE SKIN – DRIES FAST



**MA-2WK**  
SPRAY PATTERNS  
CONE, JET, FAN,  
FLAT, FLOW,  
CENTER, SHOWER,  
SOAKER & MIST  
**INSULATED  
SPRAY  
NOZZLES**

**MA-572A**  
6 SPRAY PATTERNS  
SOAKER, SHOWER,  
CONE, FLAT,  
MIST AND JET

**MA-W455**  
HOSE WASHERS  
(10/PK)



COLOR: YELLOW

TENSILE  
STRENGTH:  
1/4" DIA. 1250 LBS.  
3/8" DIA. 2700 LBS.



### POLYPROPYLENE ROPE

- MA-0360** 1/4" X 50'
- MA-0361** 1/4" X 100'
- MA-0362** 3/8" X 50'
- MA-0363** 3/8" X 100'

This 100% twisted 3 strand monofilament polypropylene has twice the strength of manila rope. Resistant to rot, abrasion, petroleum products, marine growth and most chemicals. It floats.

### 5/8" ID FLEXOGEN GREY GARDEN HOSE

- MA-GH25** 25' LONG
- MA-GH50** 50' LONG



### SHOP TOWELS



- MA-33350** BLUE KIMTEX TOWELS, 180 PER BOX
- MA-33570** BLUE KIMTEX TOWELS, 100 PER BOX
- MA-34790** TERI-WIPES, 125 PER BOX
- MA-41300** WORKHORSE HEAVY DUTY, 150 PER BOX
- MA-XL80-5** COTTON SHOP TOWEL (RAGS) 5 PER BAG
- MA-XL80-25** COTTON SHOP TOWEL (RAGS) 25 PER BAG

### 30" LONG CONDENSER CLEANING TOOL

**MA-0230**



### CHEMICAL RESISTANT 3 PINT HAND PUMP SPRAYER

**MA-SP41501**



TRIGGER  
MAY BE  
LOCKED  
FOR  
CONTINUOUS  
SPRAY

### CHEMICAL RESISTANT PUMP STYLE SPRAYER

- MA-SP44**  
1 GALLON
- MA-SP45**  
2 GALLON
- MA-SP46**  
3 GALLON



### TRIGGER SPAYERS

- MA-8016** PINT (12/CASE)
- MA-8032** QUART (12/CASE)

Multi-purpose trigger Sprayer for almost any cleaning solution. An adjustable nozzle for a fine mist or solid stream. Has a durable polymer head and polyethylene bottle.



**UNIT COOLERS FOR  
REFRIGERATED CABINETS**



**MEDIUM TEMPERATURE  
AIR DEFROST**

PART#	BTU/HR 10° T.D.	DIMENSIONS			CFM	FAN DIA.	115V MTR AMPS	CONNECTIONS			APPROX. SHIP WT.
		H.	W.	D.				INLET	SUCTION	DRAIN	
<b>MALS-55A</b>	550	4-1/2	10	14	125	5	.65	3/8 OD	1/2 OD	1/2 OD	9
<b>MALS-105A</b>	1050	4-1/2	16-1/2	14	125	5	.65	3/8 OD	1/2 OD	1/2 OD	12
<b>MALS-135A</b>	1350	4-1/2	20-1/2	14	225	(2)5	1.3	3/8 OD	1/2 OD	1/2 OD	16
<b>MALS-190A</b>	1700	4-1/2	24	14-1/2	225	(2)5	1.3	3/8 OD	1/2 OD	1/2 OD	21
<b>MALS-240A</b>	2400	6-5/8	24	16-1/2	300	8	.73	3/8 OD	1/2 OD	1/2 OD	24
<b>MALS-320A</b>	3000	4-1/2	40	14-1/2	350	(3)5	1.95	3/8 OD	1/2 OD	1/2 OD	33
<b>MALS-410A</b>	4300	4-1/2	53.4	14-1/2	475	(4)5	2.6	3/8 OD	1/2 OD	1/2 OD	44
<b>COATED COILS</b>											
<b>MALS-55A-P</b>	550	4-1/2	10	14	125	5	.65	3/8 OD	1/2 OD	1/2 OD	9
<b>MALS-105A-P</b>	1050	4-1/2	16-1/2	14	125	5	.65	3/8 OD	1/2 OD	1/2 OD	12
<b>MALS-135A-P</b>	1350	4-1/2	20-1/2	14	225	(2)5	1.3	3/8 OD	1/2 OD	1/2 OD	16
<b>MALS-190A-P</b>	1700	4-1/2	24	14-1/2	225	(2)5	1.3	3/8 OD	1/2 OD	1/2 OD	21

**LOW TEMPERATURE  
ELECTRIC DEFROST**

PART#	BTU/HR 10° T.D.	DIMENSIONS			CFM	FAN DIA.	MTR AMPS	HEATERS AMPS	CONNECTIONS			APPROX. SHIP WT.
		H.	W.	D.					INLET	SUCTION	DRAIN	
<b>MALS-50E1</b>	500	4-1/2	10	14	125	5	.65	1.8	3/8 OD	1/2 OD	1/2 OD	10
<b>MALS-95E1</b>	950	4-1/2	16-1/2	14	125	5	.65	4.2	3/8 OD	1/2 OD	1/2 OD	13
<b>MALS-125E1</b>	1250	4-1/2	20-1/2	14	200	(2)5	1.3	4.31	3/8 OD	1/2 OD	1/2 OD	17
<b>MALS-160E1</b>	1600	4-1/2	24-1/2	15	225	(2)5	1.3	5.05	3/8 OD	1/2 OD	1/2 OD	19
<b>MALS-210E1</b>	2100	6-5/8	24	16-1/2	300	8	.73	7.52	1/2 OD	1/2 OD	1/2 OD	24
<b>MALS-210E2</b>	2100	6-5/8	24	16-1/2	300	8	.45	3.83	1/2 OD	1/2 OD	1/2 OD	24
<b>MALS-280E1</b>	2800	6-5/8	32	16-1/2	300	8	.73	11.7	1/2 OD	1/2 OD	3/4 OD	38
<b>MALS-280E2</b>	2800	6-5/8	32	16-1/2	300	8	.45	5.9	1/2 OD	1/2 OD	3/4 OD	38

\*Textured aluminum cabinet \* Compact unit for ceiling mount \* Moisture proof wiring harness \* Peerlite coating optional  
\* Front panel and drain are one piece for easy servicing \* Easily adapted as a replacement unit or original equipment \*  
Thermally protected, permanently lubricated motors



**MEDIUM TEMPERATURE – AIR DEFROST**

PART#	BTU/HR 10° T.D.	DIMENSIONS			CFM	DIA.	AMPS	CONNECTIONS			APPROX. SHIP WT.
		H.	W.	D.				INLET	SUCTION	DRAIN	
<b>MASF-105</b>	1000	9	11-3/8	14	300	8	.73	3/8 OD	3/8 OD	1/2 OD	14
<b>MASF-135</b>	1300	9	14-3/8	14	300	8	.73	3/8 OD	3/8 OD	1/2 OD	16
<b>MASF-175</b>	1700	9	17-3/8	14	300	8	.73	3/8 OD	3/8 OD	1/2 OD	18
<b>MASF-235</b>	2300	9-7/8	20-3/8	15	300	8	.73	3/8 OD	1/2 OD	1/2 OD	22
<b>MASF-305</b>	3000	11	23-3/8	16	500	10	.75	1/2 OD	1/2 OD	1/2 OD	27
<b>MASF-105-P</b>	1000	9	11-3/8	14	300	8	.73	3/8 OD	3/8 OD	1/2 OD	14
<b>MASF-135-P</b>	1300	9	14-3/8	14	300	8	.73	3/8 OD	3/8 OD	1/2 OD	16
<b>MASF-175-P</b>	1700	9	17-3/8	14	300	8	.73	3/8 OD	3/8 OD	1/2 OD	18
<b>MASF-235-P</b>	2300	9-7/8	20-3/8	15	300	8	.73	3/8 OD	1/2 OD	1/2 OD	22
<b>MASF-305-P</b>	3000	11	23-3/8	16	500	10	.75	1/2 OD	1/2 OD	1/2 OD	27

\*Textured aluminum cabinet \* Compact unit for ceiling mount \* Moisture proof wiring harness \*  
Peerlite coating optional \* Front panel and drain are one piece for easy servicing \* Easily adapted  
as a replacement unit or original equipment \* Thermally protected, permanently lubricated motors

**MEDIUM TEMPERATURE UNIT COOLERS FOR REFRIGERATED CABINETS**

PART#	BTU/HR 10° T.D.	DIMENSIONS			CFM	FAN DIA.	115V MTR AMPS	INLET	CONNECTIONS		APPROX. SHIP WT.
		H.	W.	D.					SUCTION	DRAIN	
<b>MAMJ-40</b>	400	7	13-5/8	8	125	5	.65	3/8 OD	3/8 OD	1/2 OD	7
<b>MAMJ-70</b>	700	7	13-5/8	8	125	5	.65	3/8 OD	3/8 OD	1/2 OD	9
<b>MAMJ-90</b>	900	7	13-5/8	9	125	5	.65	3/8 OD	3/8 OD	1/2 OD	10
<b>MAMJ-120</b>	1200	7	20-5/8	9	250 (2)	5	1.3	3/8 OD	3/8 OD	1/2 OD	15
<b>COATED COILS</b>											
<b>MAMJ-40-P</b>	400	7	13-5/8	8	125	5	.65	3/8 OD	3/8 OD	1/2 OD	7
<b>MAMJ-70-P</b>	700	7	13-5/8	8	125	5	.65	3/8 OD	3/8 OD	1/2 OD	9
<b>MAMJ-90-P</b>	900	7	13-5/8	9	125	5	.65	3/8 OD	3/8 OD	1/2 OD	10
<b>MAMJ-120-P</b>	1200	7	20-5/8	9	250 (2)	5	1.3	3/8 OD	3/8 OD	1/2 OD	15



\*Textured aluminum cabinet \* Compact unit for ceiling or wall mount \* Moisture proof wiring harness \* Peerlite coating optional \* Front panel and drain are one piece for easy servicing \* Easily adapted as a replacement unit or original equipment \*Thermally protected, permanently lubricated motors

**MEDIUM TEMPERATURE – AIR DEFROST**

PART#	BTU/HR 10° T.D.	DIMENSIONS			CFM	FAN DIA.	115V MTR AMPS	INLET	CONNECTIONS		APPROX. SHIP WT.
		H.	W.	D.					SUCTION	DRAIN	
<b>MATM-100</b>	1000	4-5/8	20-3/8	16	125	5	.65	3/8 OD	3/8 OD	1/2 OD	11
<b>MATM-135</b>	1350	4-5/8	20-3/8	16	250 (2)	5	1.3	3/8 OD	3/8 OD	1/2 OD	15
<b>MATM-180</b>	1800	4-5/8	20-3/8	16	250 (2)	5	1.3	3/8 OD	3/8 OD	1/2 OD	15
<b>MATM-250</b>	2500	5-5/8	20-3/8	16	300	8	.73	3/8 OD	3/8 OD	1/2 OD	16
<b>COATED COILS</b>											
<b>MATM-100-P</b>	1000	4-5/8	20-3/8	16	125	5	.65	3/8 OD	3/8 OD	1/2 OD	11
<b>MATM-135-P</b>	1350	4-5/8	20-3/8	16	250 (2)	5	1.3	3/8 OD	3/8 OD	1/2 OD	15
<b>MATM-180-P</b>	1800	4-5/8	20-3/8	16	250 (2)	5	1.3	3/8 OD	3/8 OD	1/2 OD	15
<b>MATM-250-P</b>	2500	5-5/8	20-3/8	16	300	8	.73	3/8 OD	3/8 OD	1/2 OD	16



\*Textured aluminum cabinet \* Compact unit for ceiling mount \* Two way air discharge for uniform box temperature \* Moisture proof wiring harness \* Peerlite coating optional \* Front panel and drain are one piece for easy servicing \* Easily adapted as a replacement unit or original equipment \* Thermally protected, permanently lubricated motors

**UNIT COOLERS FOR REFRIGERATED ROOMS**



**MEDIUM TEMPERATURE AIR DEFROST**

PART#	BTU/HR 10° T.D.	DIMENSIONS			CFM	FAN DIA.	115V MTR AMPS	HEATERS AMPS	CONNECTIONS		MPT DRAIN	APPROX. SHIP WT.
		H.	W.	D.					INLET	SUCTION		
<b>MAPLPH-410</b>	4100	15-1/4	29-1/4	14-3/4	730	12	.06	3.9	1/2 OD	5/8 OD	3/4	37
<b>MAPLPH-530A</b>	5300	15-1/4	29-1/4	14-3/4	700	12	.06	7.8	1/2 OD	5/8 OD	3/4	40
<b>MAPLPH-660A</b>	6600	15-1/4	29-1/4	14-3/4	650	12	1.2	7.8	1/2 OD	7/8 OD	3/4	46
<b>MAPLPH-710A</b>	7100	15-1/4	45-1/4	14-3/4	1460 (2)	12	1.2	7.8	1/2 OD	7/8 OD	3/4	54
<b>MAPLPH-1050A</b>	10500	15-1/4	45-1/4	14-3/4	1400 (2)	10	1.2	11.7	1/2 OD	7/8 OD	3/4	58
<b>MAPLPH-2610A</b>	26100	15-1/4	93-1/4	14-3/4	3500 (5)	10	3	15.7	1/2 OD	1-1/8 OD	3/4	112
<b>MAPLPH-3130A</b>	31300	15-1/4	109-1/4	14-3/4	4200 (6)	10	3.6	23.5	1/2 OD	1-1/8 OD	3/4	133

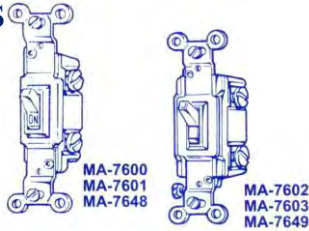
**LOW TEMPERATURE ELECTRIC DEFROST**

PART#	BTU/HR 10° T.D.	DIMENSIONS			CFM	FAN DIA.	230V MTR AMPS	HEATERS AMPS	CONNECTIONS		MPT DRAIN	APPROX. SHIP WT.
		H.	W.	D.					INLET	SUCTION		
<b>MAPLPH-360E</b>	3600	15-1/4	29-1/4	14-3/4	700	12	.45	3.9	1/2 OD	5/8 OD	3/4	33
<b>MAPLPH-660E</b>	6600	15-1/4	45-1/4	14-3/4	1400 (2)	12	.90	7.8	1/2 OD	5/8 OD	3/4	52
<b>MAPLPH-910E</b>	9100	15-1/4	45-1/4	14-3/4	1300 (2)	12	.90	7.8	1/2 OD	7/8 OD	3/4	57
<b>MAPLPH-1210E</b>	12100	15-1/4	61-1/4	14-3/4	2100 (3)	12	1.35	11.7	1/2 OD	7/8 OD	3/4	69
<b>MAPLPH-1810E</b>	18100	15-1/4	77-1/4	14-3/4	2600 (4)	12	1.80	15.7	1/2 OD	1-1/8 OD	3/4	93
<b>MAPLPH-2010E</b>	20100	15-1/4	93-1/4	14-3/4	3500 (5)	12	2.25	19.6	1/2 OD	1-1/8 OD	3/4	110
<b>MAPLPH-2410E</b>	24100	15-1/4	109-1/4	14-3/4	4200 (6)	12	2.70	23.5	1/2 OD	1-1/8 OD	3/4	130

\*Standard with high efficiency EC motors \* All motors are universal voltage 115-230V 50/60HZ with constant airflow \* Internally enhanced tubing and fin design high efficiency \* Textured aluminum cabinet \* Compact unit for ceiling mount \* Easy access front corner panels \* Peerlite coil coating optional \* Easily adapted as a replacement unit or original equipment \* Motors Serviceable through fan guards \* 12 inch fans for optimum air through

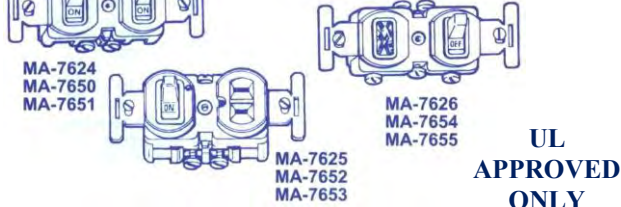
### QUIET SWITCHES

Horsepower Rated  
for Motor Loads  
Rated - 15A  
120V AC 1/2HP  
Max. Amps - 12A  
**UL APPROVED  
ONLY**



<u>SINGLE POLE, 15A, 115V</u>	<u>THREE WAY, 15A, 115V</u>
<b>MA-7600</b> BROWN	<b>MA-7602</b> BROWN
<b>MA-7601</b> IVORY	<b>MA-7603</b> IVORY
<b>MA-7648</b> WHITE	<b>MA-7649</b> WHITE

### DUPLEX SWITCHES



SINGLE POLE, 15A, 120-277V, AC SWITCH  
**MA-7624** IVORY **MA-7650** BROWN  
**MA-7651** WHITE

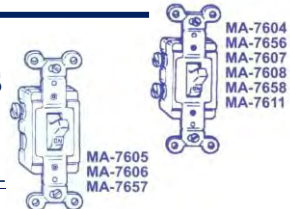
SINGLE POLE, 15A, 120-277V, AC SWITCH, 2P 3W  
GROUNDING 15A, 125 RECEPTACLE  
**MA-7625** IVORY **MA-7652** BROWN  
**MA-7653TR** WHITE

SINGLE POLE, 15A, 120-277V, AC SWITCH,  
W/PILOT LIGHT 120V  
**MA-7626** IVORY **MA-7654** BROWN  
**MA-7655** WHITE

**UL  
APPROVED  
ONLY**

### HEAVY DUTY QUIET SWITCHES

Horsepower Rated for  
Motor Loads  
Rated - 120V AC - 240V AC -  
15A - 1/2HP - 1HP -  
20A - 1HP - 2HP - 16A  
**UL APPROVED ONLY**



<u>DOUBLE POLE, 20A, 120-277V, AC SWITCH</u>	<u>THREE WAY, 20A, 120-277V, AC SWITCH</u>
<b>MA-7604</b> BROWN	<b>MA-7607</b> BROWN
<b>MA-7656</b> WHITE	<b>MA-7608</b> IVORY
<b>MA-7611</b> IVORY	<b>MA-7658</b> WHITE

SINGLE POLE, 20A, 120-277V, AC SWITCH  
**MA-7605** BROWN **MA-7606** IVORY  
**MA-7657** WHITE

### DRYER AND RANGE RECEPTACLES



**MA-7670** FLUSH MOUNT 30A, 125/250V  
NEMA 10-30 DRYER RECEPTACLE, BROWN,  
3 PRONG  
**UL APPROVED**

**MA-7671** SURFACE MOUNT 30A, 125/250V  
NEMA 10-30 DRYER RECEPTACLE, BLACK,  
3 PRONG  
**UL APPROVED**

**MA-7672** FLUSH MOUNT 50A, 125/250V  
NEMA 10-50 RANGE RECEPTACLE, BLACK,  
3 PRONG  
**UL & CSA APPROVED**

**MA-7673** SURFACE MOUNT 50A, 125/250V  
NEMA 10-50 RANGE RECEPTACLE, BLACK,  
3 PRONG  
**UL APPROVED**

**MA-1257** FLUSH MOUNT 30A, 125/250V  
NEMA 14-30 RECEPTACLE, BLACK, 4 PRONG  
**UL & CSA APPROVED**

**MA-1225** SURFACE MOUNT 30A, 125/250V  
NEMA 14-30 RECEPTACLE, BLACK, 4 PRONG  
**UL APPROVED**

**MA-1258** FLUSH MOUNT 50A, 125/250V  
NEMA 14-50 RECEPTACLE, BLACK, 4 PRONG  
**UL & CSA APPROVED**

**MA-1212** SURFACE MOUNT 50A, 125/250V  
NEMA 14-50 RECEPTACLE, BLACK, 4 PRONG  
**UL & CSA APPROVED**

### PROTECTIVE COVER UL & CSA APPROVED



**MA-7621**  
PLASTIC SNAP COVER FOR DUPLEX RECEPTACLE  
IN WET LOCATIONS

### GFI DUPLEX RECEPTACLE



**UL APPROVED ONLY**

**MA-7518**  
DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT  
INTERRUPTERS 15A, 125V, NEMA 5-15, WHITE

SINGLE POLE RATED:  
15A AT 125VAC - 10A AT 250VAC - 3/4HP AT 125/250VAC

DOUBLE POLE RATED:  
15A AT 125VAC - 10A AT 250VAC - 1.5HP AT 125/250VAC

SINGLE POLE  
**MA04501-2** SP-ST  
**MA04502-2** SP-DT  
**MA04503-2**  
SP-DT CENTER-OFF

**TOGGLE  
SWITCHES**  
ALL TOGGLE  
SWITCHES  
FURNISHED WITH  
SCREW TERMINALS

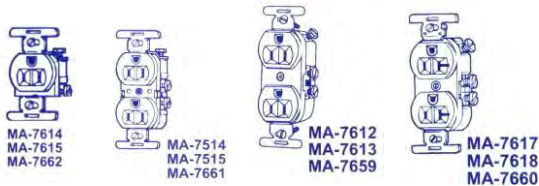


DOUBLE POLE  
**MA04504-2** DP-ST  
**MA04505-2** DP-DT  
**MA04506-2**  
DP-DT CENTER OFF

### STRAIGHT BLADE RECEPTACLES

E-Z ground strap w/grounding terminal screw.  
 Suitable for grounded metallic or non-metallic systems.  
 Compact design provides more wiring space in outlet box.  
 UL File E15058RTRT

- MA-7612** SIDE WIRE, 2P, 3W GROUNDING 15A, 125V, NEMA 5-15R, DUPLEX RECEPTACLE, BROWN **UL & CSA APPROVED**
- MA-7613** SIDE WIRE, 2P, 3W GROUNDING 15A, 125V, NEMA 5-15R, DUPLEX RECEPTACLE, IVORY **UL & CSA APPROVED**
- MA-7659** SIDE WIRE, 2P, 3W GROUNDING 15A, 125V, NEMA 5-15R, DUPLEX RECEPTACLE, WHITE **UL & CSA APPROVED**
- MA-7614** SINGLE, 15A, 125V, NEMA 5-15R, BROWN **UL APPROVED**
- MA-7615** SINGLE, 15A, 125V, NEMA 5-15R, IVORY **UL APPROVED**
- MA-7662** SINGLE, 15A, 125V, NEMA 5-15R, WHITE **UL APPROVED**
- MA-7617** SIDE WIRE, 2P, 3W GROUNDING 20A, 125V, NEMA 5-10R, DUPLEX RECEPTACLE, BROWN **UL APPROVED**
- MA-7618** SIDE WIRE, 2P, 3W GROUNDING 20A, 125V, NEMA 5-10R, DUPLEX RECEPTACLE, IVORY **UL APPROVED**
- MA-7660** SIDE WIRE, 2P, 3W GROUNDING 20A, 125V, NEMA 5-10R, DUPLEX RECEPTACLE, WHITE **UL & CSA APPROVED**
- MA-7514** E-Z WIRE & SCREW, 15A, 125V NEMA 5-15R, DUPLEX RECEPTACLE, BROWN **UL APPROVED**
- MA-7515** E-Z WIRE & SCREW, 15A, 125V NEMA 5-15R, DUPLEX RECEPTACLE, IVORY **UL APPROVED**
- MA-7661** E-Z WIRE & SCREW, 15A, 125V NEMA 5-15R, DUPLEX RECEPTACLE, WHITE **UL APPROVED**



### STRAIGHT BLADE PLUGS, CONNECTORS, & ADAPTORS



- MA-179ED** PLASTIC HANDLE PLUG 15A, 125V, 2 POLE, 2-WIRE 13/32" CORD HOLE (2/BAG) **UL & CSA APPROVED**
- MA-7525** 3 WIRE RECEPTACLE TO 3 WIRE GROUNDING OUTLET VINYL, 15A, 125V, GRAY **UL APPROVED**
- MA-7599** TRI-TAP, 15A, 125V, NEMA 1-15
- MA-7638** VINYL PLUG 20A, 125V NEMA 5-20, YELLOW **UL & CSA APPROVED**
- MA-7639** VINYL PLUG CONNECTOR 20A, 125V, NEMA 5-20, YELLOW **UL APPROVED**



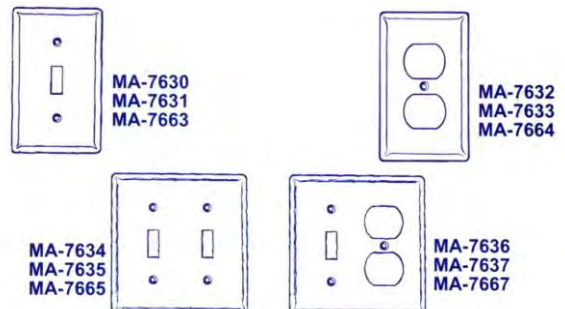
- MA-7640** VINYL ARMORED CONNECTOR 15A, 125V, NEMA 5-15, YELLOW **UL & CSA APPROVED**
- MA-7641** VINYL ARMORED PLUG 15A, 125V, NEMA 5-15, YELLOW **UL & CSA APPROVED**
- MA-7642** VINYL ARMORED CONNECTOR 15A, 250V, NEMA 6-15, YELLOW **UL & CSA APPROVED**
- MA-7643** VINYL ARMORED PLUG 15A, 250V, NEMA 6-15, YELLOW **UL & CSA APPROVED**
- MA-7644** VINYL ARMORED PLUG 20A, 250V, NEMA 6-20, YELLOW **UL & CSA APPROVED**



- MA-7645** VINYL ARMORED CONNECTOR 20A, 250V, NEMA 6-20, YELLOW
- MA-7646** RUBBER CONNECTOR, ROUND HANDLE CONNECTOR, 15A, 250V NEMA 5-15, BLACK **UL APPROVED**
- MA-7647** RUBBER PLUG, ROUND HANDLE CONNECTOR, 15A, 250V NEMA 5-15, BLACK **UL & CSA APPROVED**

### WALL PLATES

- MA-7630** ONE GANG TOGGLE, SMOOTH LINE, BROWN
- MA-7631** ONE GANG TOGGLE, SMOOTH LINE, IVORY
- MA-7663** ONE GANG TOGGLE, SMOOTH LINE, WHITE
- MA-7632** DUPLEX, SMOOTH LINE, BROWN
- MA-7633** DUPLEX, SMOOTH LINE, IVORY
- MA-7664** DUPLEX, SMOOTH LINE, WHITE
- MA-7634** TWO GANG TOGGLE, SMOOTH LINE, BROWN
- MA-7635** TWO GANG TOGGLE, SMOOTH LINE, IVORY
- MA-7665** TWO GANG TOGGLE, SMOOTH LINE, WHITE
- MA-7636** TOGGLE AND DUPLEX, SMOOTH LINE, BROWN
- MA-7637** TOGGLE AND DUPLEX, SMOOTH LINE, IVORY
- MA-7667** TOGGLE AND DUPLEX, SMOOTH LINE, WHITE
- MA-7668** BLANK, PLASTIC, BROWN
- MA-7669** BLANK, PLASTIC, IVORY
- MA-7674** BLANK, PLASTIC, WHITE







### SQUARE D DEFINITE PURPOSE CONTACTORS

#### 2-POLE-SMALL FRAME 3-POLE-LARGE FRAME

	FULL LOAD AMPERES	COIL VAC		FULL LOAD AMPERES	COIL VAC
<b>8910DP22V14</b>	25	24	<b>8910DPA23V14</b>	25	24
<b>8910DP22V02</b>	25	120	<b>8910DPA23V02</b>	25	120
<b>8910DP22V09</b>	25	240	<b>8910DPA23V09</b>	25	240
<b>8910DP32V14</b>	30	24	<b>8910DPA33V14</b>	30	24
<b>8910DP32V02</b>	30	120	<b>8910DPA33V02</b>	30	120
<b>8910DP32V09</b>	30	240	<b>8910DPA33V09</b>	30	240
<b>8910DP42V14</b>	40	24	<b>8910DPA43V14</b>	40	24
<b>8910DP42V02</b>	40	120	<b>8910DPA43V02</b>	40	120
<b>8910DP42V09</b>	40	240	<b>8910DPA43V09</b>	40	240
			<b>8910DPA53V14</b>	50	24
			<b>8910DPA53V02</b>	50	120
			<b>8910DPA53V09</b>	50	240
			<b>8910DPA63V14</b>	60	24
			<b>8910DPA63V02</b>	60	120
			<b>8910DPA63V09</b>	60	240
			<b>8910DPA73V14</b>	75	24
			<b>8910DPA73V02</b>	75	120
			<b>8910DPA73V09</b>	75	240
			<b>8910DPA93V14</b>	90	24
			<b>8910DPA93V02</b>	90	120
			<b>8910DPA93V09</b>	90	240

Ideal for Heating, A/C, Refrigeration, Data Processing, and Food Service Equipment.

**Features:** UL Component Recognized, UL Listed, CSA Certified, and DPA series is CE marked.

**Specifications:** Up to 30 Ampere; Quick Connect Terminals and binder head screws for easy wiring. 40 Ampere and Larger; box lugs are standard

### SQUARE D CIRCUIT BREAKERS UL & CSA LISTED

#### HOMELINE®

SINGLE POLE,  
120/240VAC

**HOM115** 15AMP  
**HOM120** 20AMP  
**HOM130** 30AMP  
**HOM140** 40AMP  
**HOM150** 50AMP



#### HOMELINE®

DOUBLE POLE,  
120/240VAC

**HOM215** 15AMP  
**HOM220** 20AMP  
**HOM230** 30AMP  
**HOM240** 40AMP  
**HOM250** 50AMP  
**HOM260** 60AMP

#### QO STYLE WITH VISI-TRIP®

SINGLE POLE,  
120/240VAC

**QO115** 15AMP  
**QO120** 20AMP  
**QO130** 30AMP  
**QO140** 40AMP  
**QO150** 50AMP  
**QO160** 60AMP



#### QO STYLE WITH VISI-TRIP®

DOUBLE POLE,  
120/240VAC

**QO215** 15AMP  
**QO220** 20AMP  
**QO230** 30AMP  
**QO240** 40AMP  
**QO250** 50AMP  
**QO260** 60AMP

VISI-TRIP® =  
VISUAL RED INDICATOR  
IN WINDOW

VISI-TRIP® =  
VISUAL RED INDICATOR  
IN WINDOW

### WORLD SOURCE DEFINITE PURPOSE CONTACTORS



#### 1-POLE

	FULL LOAD AMPERES	COIL VAC
<b>1P30A24V</b>	30	24
<b>1P40A24V</b>	40	24

#### 1.5 POLE

	FULL LOAD AMPERES	COIL VAC
<b>112P30A24V</b>	30	24
<b>112P30A120V</b>	30	120
<b>112P30A240V</b>	30	240

#### 2-POLE

	FULL LOAD AMPERES	COIL VAC
<b>2P20A24V</b>	20	24
<b>2P30A24V</b>	30	24
<b>2P30A120V</b>	30	120
<b>2P30A240V</b>	30	240
<b>2P40A24V</b>	40	24
<b>2P40A120V</b>	40	120
<b>2P40A240V</b>	40	240

UNIVERSAL MOUNT  
LUG TERMINAL  
WITH QUICK CONNECT

#### 3-POLE

	FULL LOAD AMPERES	COIL VAC
<b>3P30A24V</b>	30	24
<b>3P30A120V</b>	30	120
<b>3P30A240V</b>	30	240
<b>3P40A24V</b>	40	24
<b>3P40A120V</b>	40	120
<b>3P40A240V</b>	40	240
<b>3P50A24V</b>	50	24
<b>3P50A120V</b>	50	120
<b>3P50A240V</b>	50	240
<b>3P60A24V</b>	60	24
<b>3P60A120V</b>	60	120
<b>3P60A240V</b>	60	240

Compatible with American Switch, Westinghouse (Bryant), Challenger (Sylvania), Crouse-Hinds (Murray), Frank Adams, General Electric (full size only), General Switch, I-T-E Gould, Montgomery Wards and Sears.

#### SINGLE POLE, 120/240VAC COMMON TRIP

**MA-Q115** 15AMP  
**MA-Q120** 20AMP  
**MA-Q125** 25AMP  
**MA-Q130** 30AMP  
**MA-Q140** 40AMP  
**MA-Q150** 50AMP  
**MA-Q160** 60AMP



UL & CSA  
APPROVED

#### DUAL SINGLE POLE, 120/240VAC

**MA-QT1515** 15-15AMP  
**MA-QT1520** 15-20AMP  
**MA-QT2020** 20-20AMP



DUAL  
SINGLE POLE, 120/240VAC  
**MA-QT2030** 20-30AMP  
**MA-QT3030** 30-30AMP

#### REPLACEMENTS FOR SQUARE D SINGLE POLE, 120/240VAC

**MA-D115** 15AMP  
**MA-D120** 20AMP  
**MA-D130** 30AMP  
**MA-D140** 40AMP  
**MA-D150** 50AMP  
**MA-D160** 60AMP



UL & CSA  
APPROVED

#### REPLACEMENTS FOR SQUARE D DOUBLE POLE, 120/240VAC

**MA-D215** 15AMP  
**MA-D220** 20AMP  
**MA-D230** 30AMP  
**MA-D240** 40AMP  
**MA-D250** 50AMP  
**MA-D260** 60AMP

**4" SQUARE TWO DEVICE  
OUTLET BOXES**

**MA-E374** (50/PKG)

4"SQ x 1-1/2"  
WITH 1/2" KNOCKOUTS

**MA-E374D** (25/PKG)

4"SQ x 2-1/8"

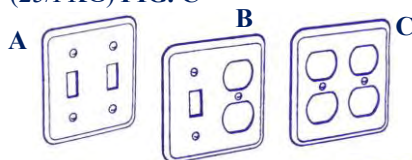


**4" COVERS FOR TWO  
DEVICE OUTLET BOXES**

**MA-E272** 2-TOGGLE SWITCHES  
(50/PKG) FIG. A

**MA-E273** 1 TOGGLE SWITCH & 1  
DUPLEX RECEPTACLE (50/PKG)  
FIG. B

**MA-E274** 2 DUPLEX RECEPTACLE  
(25/PKG) FIG. C

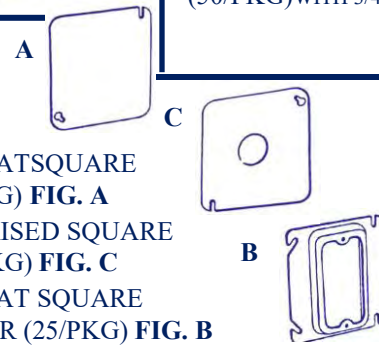


**4-11/16" COVERS  
FOR SQUARE  
OUTLET BOXES**

**MA-E584** 4-11/16" FLATSQUARE  
BLANK COVER (25/PKG) FIG. A

**MA-E590** 4-11/16" RAISED SQUARE  
SINGLE DEVICE (25/PKG) FIG. C

**MA-E594** 4-11/16" FLAT SQUARE  
KNOCKOUT IN CENTER (25/PKG) FIG. B



**4" SQUARE OUTLET**

**MA-E554** 4" FLAT SQUARE  
BLANK COVER (50/PKG) FIG. A

**MA-E560** 4" SQUARE 1/2" RAISED  
SINGLE FLUSH (50/PKG) FIG. B

**MA-E564** 4" FLAT SQUARE WITH  
1/2" KNOCKOUT IN CENTER (50/PKG) FIG. C

**MA-E570** 4" SQUARE 1/2" RAISED  
1 TOGGLE SWITCH (50/PKG) FIG. D

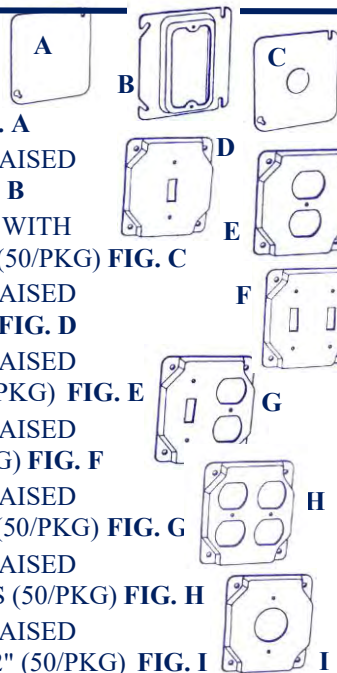
**MA-E571** 4" SQUARE 1/2" RAISED  
1 DUPLEX RECEPTACLE (50/PKG) FIG. E

**MA-E572** 4" SQUARE 1/2" RAISED  
2 TOGGLE SWITCHES (50/PKG) FIG. F

**MA-E573** 4" SQUARE 1/2" RAISED  
1 SWITCH & DUPLEX RECPT(50/PKG) FIG. G

**MA-E574** 4" SQUARE 1/2" RAISED  
TWO DUPLEX RECEPTACLES (50/PKG) FIG. H

**MA-E575** 4" SQUARE 1/2" RAISED  
SINGLE RECEPTACLE 1-13/32" (50/PKG) FIG. I



**4" SQUARE  
OUTLET BOXES**

**MA-E352** 4"SQ x 1-1/4"  
(50/PKG) WITH 1/2" KNOCKOUTS

**MA-E353** 4"SQ x 1-1/2"  
(50/PKG) WITH 1/2" & 3/4" KNOCKOUTS

**MA-E353D** 4"SQ x 2-1/8"  
(50/PKG) WITH 1/2" & 3/4" KNOCKOUTS

**MA-E363D** 4-11/16"SQ x 2-1/8"  
(25/PKG) WITH 1/2" & 3/4" KNOCKOUTS



**STANDARD UTILITY BOXES**

**MA-E200** 4"L x 2-1/8"W X 1-1/2"D  
(50/PKG) WITH 1/2" KNOCKOUTS

**MA-E201** 4"L x 2-1/8"W X 1-7/8"D  
(50/PKG) WITH 1/2" KNOCKOUTS

**MA-E202** 4"L x 2-1/8"W X 2-1/8"D  
(50/PKG) WITH 1/2" KNOCKOUTS

**MA-E201-3/4** 4"L x 2-1/8"W X 1-7/8"D  
(50/PKG) WITH 3/4" KNOCKOUTS



**4" OCTAGON  
OUTLET BOXES**

**MA-E303** 4" x 1-1/2"  
WITH 1/2" & 3/4" KNOCKOUTS  
(50/PKG)

**MA-E303D** 4" x 2-1/8"  
WITH 1/2" & 3/4" KNOCKOUTS  
(25/PKG)

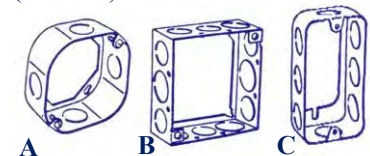


**EXTENSION RINGS**

**MA-E304EXT** 4" x 1-1/2"  
OCTAGON WITH 1/2"  
KNOCKOUTS  
(50/PKG) FIG. A

**MA-E350EXT** 4" x 1-1/2"  
SQUARE WITH 1/2" & 3/4"  
KNOCKOUTS  
(50/PKG) FIG. B

**MA-E200EXT** 4" x 2-1/8"  
RECTANGLE  
(50/PKG) FIG. C



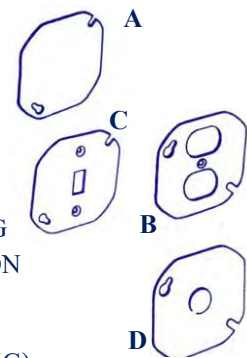
**4" OCTAGON  
OUTLET BOX COVERS**

**MA-E504** 4" FLAT OCTAGON  
BLANK COVER (50/PKG)

**MA-E508D** 4" OCTAGON  
DUPLEX RECEPTACLE (50/PKG)

**MA-E508T** 4" FLAT OCTAGON  
TOGGLE SWITCH (50/PKG)

**MA-E509** 4" FLAT OCTAGON  
KNOCKOUT IN CENTER (50/PKG)



**STANDARD HANDY  
BOX COVERS**

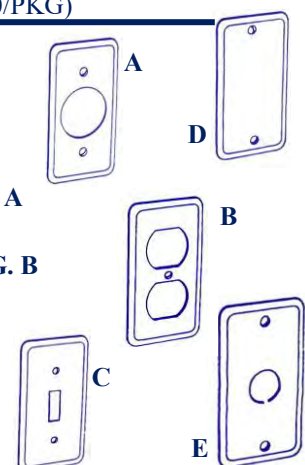
**MA-E251** 4" X 2-1/8"  
SINGLE RECEPTACLE FIG. A

**MA-E252** 4" X 2-1/8"  
DUPLEX RECEPTACLE FIG. B

**MA-E253** 4" X 2-1/8"  
TOGGLE SWITCH FIG. C

**MA-E254** 4" X 2-1/8"  
BLANK FIG. D

**MA-E255** 4" X 2-1/8"  
1-1/2" KNOCKOUT FIG. E



## CONDENSER & HEAT EXCHANGER BRUSHES



PART#		FEMALE THREADS	BRUSH LENGTH
<b>STAINLESS STEEL SINGLE SPIRAL</b>			
AMA-502	1/4" DIA.	8-32	3"
AMA-504	3/8" DIA.	12-24	4"
AMA-507	7/16" DIA.	12-24	4"
AMA-510	1/2" DIA.	12-24	4"
AMA-513	9/16" DIA.	12-24	4"
AMA-516	5/8" DIA.	12-24	4"
AMA-519	11/16" DIA.	12-24	4"
AMA-522	3/4" DIA.	12-24	4"
AMA-525	13/16" DIA.	12-24	4"
AMA-528	7/8" DIA.	12-24	4"
AMA-531	15/16" DIA.	12-24	4"
AMA-533	1" DIA.	12-24	4"
<b>BRASS WIRE SINGLE SPIRAL</b>			
AMA-602	1/4" DIA.	8-32	3"
AMA-604	3/8" DIA.	12-24	4"
AMA-607	7/16" DIA.	12-24	4"
AMA-610	1/2" DIA.	12-24	4"
AMA-613	9/16" DIA.	12-24	4"
AMA-616	5/8" DIA.	12-24	4"
AMA-619	11/16" DIA.	12-24	4"
AMA-622	3/4" DIA.	12-24	4"
AMA-625	13/16" DIA.	12-24	4"
AMA-628	7/8" DIA.	12-24	4"
AMA-631	15/16" DIA.	12-24	4"
AMA-633	1" DIA.	12-24	4"
<b>BLACK NYLON WIRE SINGLE SPIRAL</b>			
AMA-702	1/4" DIA.	8-32	3"
AMA-704	3/8" DIA.	12-24	4"
AMA-707	7/16" DIA.	12-24	4"
AMA-710	1/2" DIA.	12-24	4"
AMA-713	9/16" DIA.	12-24	4"
AMA-716	5/8" DIA.	12-24	4"
AMA-719	11/16" DIA.	12-24	4"
AMA-722	3/4" DIA.	12-24	4"
AMA-725	13/16" DIA.	12-24	4"
AMA-728	7/8" DIA.	12-24	4"
AMA-731	15/16" DIA.	12-24	4"
AMA-733	1" DIA.	12-24	4"

AMA-044 4' EXTENSION X .162"DIA. 8-32 MALE  
THREAD FOR USE WITH 1/4" AND 5/16"DIA.

THE ITEM BELOW IS FOR CONDENSER BRUSHES



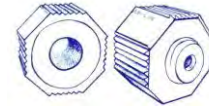
## COPPER TUBE FITTING BRUSHES

**SINGLE SPIRAL - 2 PLY WIRE CONSTRUCTION**  
STAINLESS STEEL WIRE  
SOLID PLASTIC HAND-FITTING HANDLE



AMA-824 1/4"OD - 1/8"ID	AMA-831 1-1/8"OD - 1"ID
AMA-825 3/8"OD - 1/4"ID	AMA-832 1-3/8"OD - 1-1/8"ID
AMA-826 1/2"OD - 3/8"ID	AMA-833 1-1/2"OD - 1-3/8"ID
AMA-827 5/8"OD - 1/2"ID	AMA-834 1-5/8"OD - 1-1/2"ID
AMA-828 3/4"OD - 5/8"ID	AMA-835 2-1/8"OD - 2"ID
AMA-829 7/8"OD - 3/4"ID	AMA-836 2-1/2"OD - 2-1/8"ID
AMA-830 1"OD - 7/8"ID	
<b>DOUBLE SPIRAL - 4 PLY WIRE CONSTRUCTION</b> STAINLESS STEEL WIRE - SOLID PLASTIC HAND-FITTING HANDLE	
AMA-924 1/4"OD - 1/8"ID	AMA-931 1-1/8"OD - 1"ID
AMA-925 3/8"OD - 1/4"ID	AMA-932 1-3/8"OD - 1-1/8"ID
AMA-926 1/2"OD - 3/8"ID	AMA-933 1-1/2"OD - 1-3/8"ID
AMA-927 5/8"OD - 1/2"ID	AMA-934 1-5/8"OD - 1-1/2"ID
AMA-928 3/4"OD - 5/8"ID	AMA-935 2-1/8"OD - 2"ID
AMA-929 7/8"OD - 3/4"ID	AMA-936 2-1/2"OD - 2-1/8"ID
AMA-930 1"OD - 7/8"ID	

## OUTSIDE TUBE CLEANING BRUSHES



AMA-960 1/4", 3/8", 1/2", 5/8" 3/4" and 7/8"OD - SET OF 6	AMA-966 5/8"OD - 1/2"ID
AMA-963 1/4"OD - 1/8"ID	AMA-967 3/4"OD - 5/8"ID
AMA-964 3/8"OD - 1/4"ID	AMA-968 7/8"OD - 3/4"ID
AMA-965 1/2"OD - 3/8"ID	AMA-969 1"OD - 7/8"ID
	AMA-970 1-1/8"OD - 1"ID

## FLUX/ACID BRUSHES



FOR  
BRAZING  
AND  
SOLDERING

SOLD BY THE GROSS	PREPACKAGED
AMA-001 3/8" TIN HANDLE	AMA-001-10 (10/PKG) 3/8" TIN HANDLE
AMA-002 1/2" TIN HANDLE	AMA-002-10 (10/PKG) 1/2" TIN HANDLE
AMA-003 5/8" TIN HANDLE	AMA-003-5 (5/PKG) 5/8" TIN HANDLE
SOLD INDIVIDUALLY	AMA-007-2 (2/PKG) WOODEN HANDLE
AMA-007 3/4"	



AMA-130 4" X 1/2"DIA. HANDGRIP (ONLY)12-24 SCREW
AMA-132 2' EXTENSION X 5/16"DIA. 12-24 THREADS ON ONE END AND FEMALE THREAD ON THE OTHER END
AMA-133 3' EXTENSION FOR USE WITH 3/8" THRU 1"DIA.

THE ABOVE ITEMS ARE FOR CONDENSER BRUSHES

### CONDENSER TUBE BRUSH-SPIN-GRIT™



PART#		THREADS
<b>MA-43482</b>	1/2" DIA.	8-32F
<b>MA-43484</b>	3/4" DIA.	12-24F
<b>MA-43486</b>	1" DIA.	12-24F
<b>MA-43488</b>	1-1/4" DIA.	12-24F
<b>MA-93482</b>	1/2" DIA.	8-32M
<b>MA-93484</b>	3/4" DIA.	1/4-28M
<b>MA-93486</b>	1" DIA.	1/4-28M
<b>MA-93488</b>	1-1/4" DIA.	1/4-28M

BRUSH DIA.	TUBE SIZE
1/2"	1/4" - 5/16"
3/4"	3/8" - 9/16"
1"	5/8" - 11/16"

Spin Grit™ utilizes the sides of its impregnated nylon filaments to increase the brush's effectiveness!

\* Polish tube interiors without scratching \* Fits all commercial tube cleaners and rods \* Moves through tube with less effort \* Lasts up to 3 times longer than conventional brushes

The MA-43482 and MA-93482 use the AMA-044 Extension Rod.  
The MA-43484, MA-43486, MA-43488, MA-93484, MA-93486 and MA-93488 use the AMA-132 or the AMA-133 Extension Rod.



### NYLON TUBE BRUSHES

15" OVERALL LENGTH

**AMA-530** 3/4" X 3"  
**AMA-539** 1" X 4"

15" OVERALL LENGTH

**AMA-565** 1-1/2" X 4"  
**AMA-582** 2" X 4"



### COLUMBIA BOILER BRUSH

**AMA-348** 1-1/2" X 1" X 4"

The bristles stick out in all directions and are rough cut to a rectangular shape. It is a much lighter fill than the flat style.



### CLEANING BRUSHES

CLEANING BRUSH 24" OVERALL LENGTH – BRUSH LENGTH 7"

**AMA-762** 2" DIA. BLACK BRISTLE  
**AMA-763** 2-1/2" DIA. SYNTHETIC BLACK HORSEHAIR  
**AMA-765** 2-1/2" DIA. BLACK HORSEHAIR – POLY MIX

DUCT/VENT 48" OVERALL LENGTH – BRUSH LENGTH 7"

**AMA-200** 2-1/8" DIA. BRASS BRISTLE  
**AMA-210** 2-1/8" DIA. STAINLESS STEEL  
**AMA-220** 2-1/8" DIA. BLACK FIBER

### CLOTHES DRYER VENT BRUSH

WITH 10' FLEXIBLE HANDLE

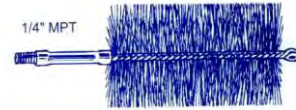


**AMA-410**

FEATURES:

REDUCES DRYING TIME  
CONSERVES ENERGY  
LOWERS UTILITY BILLS  
PREVENTS VENT FIRES  
EXTENDS DRYER LIFE

### FLUE AND FURNACE BRUSHES



Brush Dimensions  
4-1/2" Long

PART#	FLUE SIZE	BRUSH DIA.	PART#	FLUE SIZE	BRUSH DIA.
<b>SINGLE SPIRAL THREADED NIPPLES</b>			<b>DOUBLE SPIRAL THREADED NIPPLES</b>		
<b>AMA-206</b>	1"	3/4"	<b>AMA-306</b>	1"	3/4"
<b>AMA-208</b>	1-1/4"	1"	<b>AMA-308</b>	1-1/4"	1"
<b>AMA-212</b>	1-1/2"	1-1/4"	<b>AMA-312</b>	1-1/2"	1-1/4"
<b>AMA-214</b>	1-3/4"	1-1/2"	<b>AMA-314</b>	1-3/4"	1-1/2"
<b>AMA-216</b>	2"	1-3/4"	<b>AMA-316</b>	2"	1-3/4"
<b>AMA-218</b>	2-1/4"	2"	<b>AMA-318</b>	2-1/4"	2"
<b>AMA-222</b>	2-1/2"	2-1/4"	<b>AMA-322</b>	2-1/2"	2-1/4"
<b>AMA-224</b>	2-3/4"	2-1/2"	<b>AMA-324</b>	2-3/4"	2-1/2"
<b>AMA-226</b>	3"	2-3/4"	<b>AMA-326</b>	3"	2-3/4"
<b>AMA-228</b>	3-1/4"	3"	<b>AMA-328</b>	3-1/4"	3"
<b>AMA-232</b>	3-1/2"	3-1/4"	<b>AMA-332</b>	3-1/2"	3-1/4"
<b>AMA-234</b>	3-1/4"	3-1/2"	<b>AMA-334</b>	3-1/4"	3-1/2"
<b>AMA-236</b>	4"	3-3/4"	<b>AMA-336</b>	4"	3-3/4"

### FLUE AND FURNACE BRUSH HANDLES & EXTENSIONS



**AMA-438 & AMA-548**



**AMA-1438 & AMA-1448**

**AMA-438** 4' HANDLE 1/4" FPT  
**AMA-548** 5' HANDLE 1/4" FPT  
**AMA-1438** 4' EXTENSION 1/4" MPT AT ONE END AND 1/4" FPT AT THE OTHER END  
**AMA-1448** 5' EXTENSION 1/4" MPT AT ONE END AND 1/4" FPT AT THE OTHER END



### BOILER BRUSH

**AMA-406** EXTRA LONG HANDLE – STIFF WIRE BOILER BRUSH - BRUSH DIA. 3/4" X 4" – OVERALL LENGTH 42"

### WIRE BRUSHES



**AMA-010** TEMPERED CARBON STEEL BRISTLES 14" HARDWOOD CURVED HANDLE

**AMA-018** STAINLESS STEEL BRISTLES 14" HARDWOOD CURVED HANDLE



**AMA-017** TEMPERED CARBON STEEL BRISTLES 10" HARDWOOD SHOE HANDLE



### GRILL CLEANING BRUSH WITH SCRAPER

**MA-46810**  
STAINLESS STEEL BRISTLES WITH RUBBER GRIP

### OIL OR CHIP BRUSH



**AMA-481**

### REFRIGERATOR COIL CLEANING BRUSH



**AMA-405**

BRUSH LENGTH 15"  
WOOD HANDLE 12"  
OVERALL LENGTH 27"

### NEW PARTS CLEANING BRUSH



**AMA-015**  
POLY BRUSH MATERIAL  
OVERALL LENGTH 10-3/4"

### WELDERS "TOOTHBRUSH"



**MA-20534** STAINLESS STEEL BRUSH 8" OVERALL WITH WOODEN HANDLE

**AMA-254** BRASS BRUSH 7" OVERALL WITH WOODEN HANDLE

### STAINLESS WIRE BRUSH

**AMA-816**



### VARNISH BRUSH



**AMA-503** 2" POLYESTER BRISTLES

**AMA-505** 3" POLYESTER BRISTLES

### CONDENSER FIN WHISK BRUSH

**AMA-026**

PLASTIC HANDLE WHISK FOR CLEANING CONDENSER FINS AND EVAPORATORS



### RADIATOR CLEANING BRUSH



**AMA-020**  
BLACK HORSEHAIR  
OVERALL LENGTH 24"  
BRUSH LENGTH 9"

**A**

ACCESS FITTING .....	25
ADAPTOR KIT, QUICK CHANGE .....	37
AIR FLOW METER, DIGITAL .....	8
AIR PRESSURE SWITCH TUBING .....	17
AIR TUBING .....	17
ALLIGATOR CLIPS, LOW VOLTAGE .....	56
ALUMINUM FOIL TAPE .....	64
ALUMINUM TUBING .....	17
ANCHOR KITS .....	54
ANTI-SHORT BUSHINGS .....	22

**B**

BAND HEATER, REFRIGERANT CYLINDER ..	33
BATTERIES .....	59
BOILER GAUGES .....	48
BOOKS	
MODERN REFRIGERATION & AC .....	60
BORESCOPE .....	7
BOX COVER UNITS, BUSSMAN .....	20
BRASS INSERTS .....	62
BREAKAWAY BRASS FITTINGS .....	17
BRUSHES	
BOILER .....	76
CLEANING .....	75
CONDENSER AND HEAT EXCHANGER .....	75
CONDENSER FIN WHISK .....	77
CONDENSER TUBE .....	76
COPPER TUBE FITTING .....	75
EXTENSIONS .....	76
FLUE AND FURNACE .....	76
FLUX AND ACID .....	75
GRILL CLEANING .....	77
NEW PARTS CLEANING .....	77
NYLON TUBE .....	76
OIL OR CHIP .....	77
RADIATOR CLEANING .....	77
REFRIGERATOR COIL CLEANING .....	75
VARNISH .....	77
VENT AND CLOTHES DRYER .....	76
WELDERS TOOTHBRUSH .....	77
WIRE .....	77

**C**

CABLE CLAMPS NYLON .....	49
CABLE METAL CLAD .....	22
CALIPERS DIAL, DIGITAL, STEEL .....	41
CAPACITOR TESTER .....	9
CAPILLARY TUBE CUTTER .....	35
CARBON MONOXIDE DETECTOR .....	9
CAULK .....	63
CAULKING GUNS .....	63
CEMENT	
BLACK FLASHING .....	63
FURNACE CEMENT .....	63
CHISEL SCRAPER .....	39
CIRCUIT BREAKERS	
REPLACEMENT FOR SQUARE D-STYLE ....	73
SIEMENS .....	73
SIEMENS DUAL .....	73
SQUARE D .....	73
CIRCUIT TESTERS .....	56
CLAMPS	
PIPE CLAMPS .....	18
CLAMP ON ADAPTOR .....	6
COMPRESSOR	
LEADS .....	56
CONDENSER FAN RAIN SHIELD .....	65
CONDENSATE PANS .....	61
CONDENSATE TRAPS .....	64
CONDENSER CLEANING TOOL .....	68
CONDUIT	
ALUMINUM .....	22
FLEXIBLE .....	22
LIQUID TIGHT .....	22

**C (CONTINUED)**

CONNECTORS	
BUTT SPLICE .....	50
CLOSED END .....	50
CONTACTORS .....	73
COPPER SPUN DRIERS .....	24
COPPER STRAPS .....	18
CORK & RUBBER PADS .....	42
CORK TAPE .....	64
CRANKCASE HEATERS .....	61

**D**

DATA LOGGERS .....	7
DE-BURRING TOOL .....	35
DEFROST THERMOSTATS .....	45
DELTRON SLEEVE .....	62
DISCONNECT BOXES, AIR CONDITIONING	
METAL .....	21
THREE PHASE .....	21
DRAIN HEATER, UNIVERSAL .....	61
DRAIN TUBING .....	17
DRAIN LINE ELBOWS .....	17
DRIERS	
COPPER SPUN DRIERS .....	24
LIQUID LINE FILTER DRIERS .....	24
DRILL SETS .....	36
DRYER & RANGE RECEPTACLES .....	71
DUCT TAPE .....	64
DUCT TIES .....	48
DUST MASKS .....	44

**E**

ELECTRICAL TAPE .....	64
ENVIRONMENTAL KIT .....	8
EVACUATION QUICK PIERCE TOOL .....	39
EXTENSION CORDS .....	34
EXTENSION RINGS .....	74

**F**

FAN BLADES .....	66
FAN BLADE PITCH GAUGE .....	66
FIN COMBS .....	35
FIRST AID KIT .....	44
FITTINGS	
BLACK IRON PIPE .....	27
BX-FLEXIBLE METAL CONDUIT .....	22
FERNCO COUPLINGS .....	31
LIQUID TIGHT – METAL .....	21
LIQUID TIGHT – NON METALLIC .....	21
NYLON .....	29
PVC .....	28
RIDGID CONDUIT .....	23
THINWALL CONDUIT (EMT) .....	23
FLAME SHEILDS .....	62
FLARE NUT WRENCH SET .....	37
FLASHING CEMENT .....	63
FLASHLIGHTS .....	32
FLOOD ALERT .....	16
FOAM SEALANT .....	63
FOAM TAPE .....	64
FREEZE ALERT .....	16
FURNACE BLOCK .....	21
FURNACE CEMENT .....	63
FURNACE LIGHTER – TELESCOPIC .....	37
FUSE ADAPTOR - TYPE S .....	19
FUSE HOLDER – IN-LINE .....	20
FUSE PULLERS .....	20
FUSE REDUCER .....	20
FUSES .....	19

**G**

GARDEN HOSE .....	68
GARDEN HOSE NOZZLE .....	68
GAS BALL VALVES .....	59

**G (CONTINUED)**

GAS CONNECTORS – FLEXIBLE .....	59
GASKET MATERIAL .....	67
GASKET SCRAPER .....	39
GAUGE BOOTS – PROTECTIVE .....	59
GAUGES – BOILER GAUGES .....	59
GAS PRESSURE TEST GAUGE .....	59
GLYCOL REFRACTOMETER .....	61
GREASE .....	44
GREASE GUNS .....	44
GROMMET KIT – RUBBER .....	65
GROMMETS .....	49

**H**

HACKSAWS & BLADES .....	41
HANGER STRAP – PLASTIC .....	18
HANGING WIRE .....	18
HARD START KITS – EXTRA BOOST .....	21
HEAT GUNS .....	62
HEAT PUMP STANDS .....	21
HEX KEY ADAPTOR .....	37
HEX KEY SETS .....	35
HOLESAW KITS .....	35
HOSE CLAMPS .....	18
HOSE CUTTER .....	35
HUB PULLER .....	35
HUMIDIFIER HOOK UP KIT .....	62
HUMIDITY/TEMPERATURE TESTER .....	7

**I**

ICE MAKER & HUMIDIFIER	
HOOK UP KITS .....	62
INFRARED THERMOMETER .....	12
IN-LINE SPLICE .....	50
INSPECTION MIRRORS .....	11

**J**

J-HOOKS .....	18
---------------	----

**K**

KNIVES .....	40
KNEE PADS .....	44

**L**

LABELS – REFRIGERANT .....	60
LASER TAPE MEASURE .....	10
LED FLASHLIGHTS .....	32
LEVELS .....	41
LINE VOLTAGE CORD ADAPTORS .....	56
LIQUID LEVEL SWITCHES FOR	
RECOVERY CYLINDERS .....	60
LIQUID LINE FILTER DRIER .....	25
LOCKING PINCH-OFF TOOL .....	39
LUG MOUNTING BRACKET .....	65

**M**

MAGNA-LITE .....	33
MAGNETIC ASSORTED BITS .....	42
MAGNETIC PARTS TRAY .....	42
MANOMETERS .....	8
MASKS – DUST & PARTICLE .....	44
MAXICAP COVERS .....	59
MEGOhmmeter .....	2
MEG/DC DIGITAL MULTIMETER WITH	
AUTO SELECTION .....	2
ANEMOMETER .....	6
ANALOG METER .....	3
ANALOG CLAMP ON .....	3
AUTO-RANGING MULTI-METER .....	2
DIGITAL CLAMP ON METERS .....	4
DIGITAL MULTI-METER .....	3

**M (CONTINUED)**

METERS CON'T.	
ENVIRONMENTAL KIT .....	8
MANOMETER .....	8
OPEN JAW VOLTAGE METER .....	9
PEN PROBE STYLE .....	10
SOUND METER .....	8
SUPERHEAT KIT .....	14
MICROWAVE LEAK DETECTOR .....	10
MIRRORS	
GLASS – TELESCOPIC .....	11
REPLACEMENT GLASS .....	11
MIRRORS WITH LED LIGHTS .....	11
STAINLESS STEEL – TELESCOPIC .....	11
MOISTURE INDICATOR .....	10
MOUNTING BRACKETS .....	65
MOTOR AND PHASE INDICATOR .....	9
MULTI-BIT & DRIVER KIT .....	42
MULTI-TOOL – MINI POCKET .....	40
<b>N</b>	
NATURAL GAS INDICATOR .....	10
NEOPRENE TUBING .....	17
NIPPLES – BLACK WELDED .....	27
NIPPLE TRAY .....	27
NOZZLE – GARDEN HOSE .....	68
NUT DRIVER SET .....	39
NUT KITS .....	54
NUTS .....	62
NYLON INSERT LOCK NUT KIT .....	54
NYLON CARRYING POUCH .....	43

**O**

OIL PUMP .....	44
OIL REFRACTOMETER .....	61
OUTLET BOXES .....	74
OUTLET BOX COVERS .....	74

**P**

PERFORATED STRAP	
GALVANIZED AND COPPER .....	18
PEN PROBE STYLE MULTI-METER .....	10
PHASE ROTATION INDICATOR .....	9
PICK-UP TOOLS .....	37
PIPE CLAMPS .....	18
PIPE FITTINGS – BLACK IRON .....	27
PIPE HANGERS .....	18
PIPE JOINT COMPOUND .....	64
PIPE NIPPLES .....	27
PIPE WRENCHES .....	37
PIPING THERMOMETER .....	15
PLASTIC HANGER STRAP .....	18
PLASTIC SPRAYERS .....	68
PLIERS .....	39
PRESSURE SWITCHES (HIGH & LOW) .....	45
PROPANE GAS INDICATOR .....	10
PROTECTIVE COVER	
DUPLEX RECEPTACLE .....	70
PSYCHROMETER .....	8
PUMP STANDS .....	21
PUTTY KNIFE .....	38
PVC CEMENT .....	63
PVC PIPE CUTTER .....	41

**R**

R-410 ADAPTER .....	26
REAMER .....	35
RECEPTACLES – STRAIGHT BLADE .....	72
REFRACTOMETERS – GLYCOL & OIL .....	61
REFRIGERANT LABELS .....	60
REFRIGERANT RECOVERY CYLINDERS .....	60
REFRIGERANT RECOVERY TOOL .....	39
REFRIGERANT	
RETENTION CONTROL VALVE .....	26

**R (CONTINUED)**

RELAY OVERLOAD .....	56
ROPE – POLYPROPYLENE .....	68
RUBBER STRAPS .....	68
RUBBER VIBRATION PADS .....	42
<b>S</b>	
SAND CLOTH & PADS .....	59
SCALES .....	61
SCREWDRIVER BITS .....	42
SCREWDRIVER SET .....	36
SCREWDRIVERS .....	36
SCREWS .....	42
SCREWSTARTERS .....	41
SCRIBE .....	37
SENSORS AC, LOW VOLTAGE AC .....	56
SHOE COVERS .....	44
SHOP TOWELS .....	68
SILICONE TUBING .....	63
SMOKE CARTRIDGES .....	44
SNIPS .....	41
SOCKET SET .....	38
SOLENOID VOLTAGE TESTER .....	56
SPRAYERS – PLASTIC .....	68
STORAGE DRAWERS .....	43
STRAINERS – PLASTIC .....	62
STRAPS	
NYLON .....	68
PERFORATED .....	18
RUBBER .....	68
STUD SENSOR .....	10
SUPER HEAT INSTRUMENT .....	14
SWAGING TOOL .....	35

**T**

TACHOMETER .....	9
TANKS .....	60
TAPE .....	64
TAPE MEASURE .....	41
TERMINALS	
90 DEG. DISCONNECT WITH SCREW .....	50
BUTT CONNECTORS .....	50
COMPRESSOR .....	52
DISCONNECT NON-INSULATED .....	52
FLAG DISCONNECT .....	52
HIGH TEMPERATURE .....	52
QUICK DISCONNECT INSULATED .....	51
RING INSULATED .....	51
SPADES INSULATED .....	51
SPECIAL DEVICES .....	50
RING NON-INSULATED .....	51
SPADE NON-INSULATED .....	51
TERMINAL BLOCKS .....	55
TEST LEADS	
ADAPTORS .....	56
LOW VOLTAGE .....	56
THERMOMETERS	
DIGITAL HAND HELD .....	15
DIGITAL STEM .....	15
DUAL PROBE .....	15
INDOOR/OUTDOOR .....	16
INFRAREDS .....	12
HORIZONTAL .....	16
PIPING .....	15
POCKET DIAL .....	15
POCKET DIGITAL .....	15
POCKET HYGROMETERS .....	15
POCKET STICK .....	15
ROTARY PROBE .....	14
REFRIGERATOR/FREEZER/OVEN .....	16
SOLAR POWER .....	16
SOLAR POWER REMOTE READING .....	16
VAPOR TENSION REMOTE READING .....	16

**T (CONTINUED)**

THERMOSTAT COVERS .....	67
THERMOSTAT DEFROST .....	45
THREADED ROD .....	62
TIME DELAYS .....	21
TOGGLE SWITCHES .....	71
TOOL BAGS .....	43
TOOL CASES .....	43
TOOLS .....	35
TOWELS .....	68
TRANSFORMERS .....	45
TROUBLE LIGHTS .....	34
TUBING .....	17

**U**

UV FLASHLIGHTS .....	33
UNIT COOLERS .....	69
UTILITY BOXES .....	74
UTILITY CUTTERS .....	40

**V**

V-BELTS .....	66
VACUUM CHARGE VALVE & CORE TOOL .....	26
VIBRATION ELIMINATORS .....	46
VIBRATION PADS .....	42
VIDEO BORESCOPE .....	7
VOLTAGE TESTER .....	55

**W**

WALL PLATES .....	72
WASHERS .....	62
WASHING MACHINE PANS .....	61
WATER HEATER PANS .....	61
WATER LINE TAP VALVES .....	26
WATTMETER .....	9
WHIPS .....	21
WIRE	
THHN .....	58
GLASS BRAIDED SIICONE RUBBER .....	58
POLYETHYLENE RANGE .....	58
MOTOR HOOK UP .....	58
WIRE CONNECTORS .....	57
WIRE MARKER ID SYSTEM DISPENSER .....	55
WIRE PIPE HANGERS .....	18
WIRE STRIPPERS .....	39
WIRE TIE GUN .....	48
WIRE TIES .....	47
WORKLIGHTS .....	32
WRENCHES	
ADJUSTABLE .....	37
FLARE NUT .....	37
FLEXIBLE RATCHET WRENCH SET .....	37
OFFSET .....	37
PIPE .....	37
REVERSIBLE RATCHET WRENCH SET .....	37
STRAIGHT .....	37

PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #
32745	45	3P30A120V	73	8910DPA73V14	73	AMA-007	75	AMA-410	76	AMA-763	76
32750	45	3P30A240V	73	8910DPA93V02	73	AMA-007-2	75	AMA-438	76	AMA-765	76
32755	45	3P30A24V	73	8910DPA93V09	73	AMA-010	77	AMA-481	77	AMA-816	77
32760	45	3P40A120V	73	8910DPA93V14	73	AMA-015	77	AMA-502	75	AMA-824	75
32770	45	3P40A240V	73	AF1000	25	AMA-017	77	AMA-503	77	AMA-825	75
32780	45	3P40A24V	73	AF1000-50	25	AMA-018	77	AMA-504	75	AMA-826	75
32790	45	3P50A120V	73	AF1100	25	AMA-020	77	AMA-505	77	AMA-827	75
33329	45	3P50A240V	73	AF1100-50	25	AMA-026	77	AMA-507	75	AMA-828	75
33330	45	3P50A24V	73	AF11516	25	AMA-044	75	AMA-510	75	AMA-829	75
33353	45	3P60A120V	73	AF1200	25	AMA-130	75	AMA-513	75	AMA-830	75
33354	45	3P60A240V	73	AF1200-50	25	AMA-132	75	AMA-516	75	AMA-831	75
33355	45	3P60A24V	73	AF12516	25	AMA-133	75	AMA-519	75	AMA-832	75
33356	45	4040FS	46	AF1300	25	AMA-1438	76	AMA-522	75	AMA-833	75
33357	45	5050FS	46	AF1300-50	25	AMA-1448	76	AMA-525	75	AMA-834	75
33358	45	5252FS	46	AF13516	25	AMA-200	76	AMA-528	75	AMA-835	75
33359	45	5454FY	46	AF1400	25	AMA-206	76	AMA-530	76	AMA-836	75
33362	45	5614FZ	46	AF1400-50	25	AMA-208	76	AMA-531	75	AMA-924	75
33363	45	6060FS	46	AF1500	25	AMA-210	76	AMA-533	75	AMA-925	75
33364	45	6464FS	46	AF1500-50	25	AMA-212	76	AMA-539	76	AMA-926	75
1010FY	46	7272FS	46	AF1600	25	AMA-214	76	AMA-548	76	AMA-927	75
112P30A120V	73	8080FS	46	AF1600-50	25	AMA-216	76	AMA-565	76	AMA-928	75
112P30A240V	73	8910DP22V02	73	AF1700	26	AMA-218	76	AMA-582	76	AMA-929	75
112P30A24V	73	8910DP22V09	73	AF1700-50	26	AMA-220	76	AMA-602	75	AMA-930	75
1212FY	46	8910DP22V14	73	AF1800	26	AMA-222	76	AMA-604	75	AMA-931	75
1258FY	46	8910DP32V02	73	AF1800-50	26	AMA-224	76	AMA-607	75	AMA-932	75
1418FZ	46	8910DP32V09	73	AF1900	25	AMA-226	76	AMA-610	75	AMA-933	75
181SP-02	17	8910DP32V14	73	AF1900-50	25	AMA-228	76	AMA-613	75	AMA-934	75
181SP-03	17	8910DP42V02	73	AF2000	25	AMA-232	76	AMA-616	75	AMA-935	75
181SP-04	17	8910DP42V09	73	AF2000BX	25	AMA-234	76	AMA-619	75	AMA-936	75
181SP-06	17	8910DP42V14	73	AF2100	25	AMA-236	76	AMA-622	75	AMA-960	75
1A	44	8910DPA23V02	73	AF2100-100	25	AMA-254	77	AMA-625	75	AMA-963	75
1P30A24V	73	8910DPA23V09	73	AF2100-25	25	AMA-306	76	AMA-628	75	AMA-964	75
1P40A24V	73	8910DPA23V14	73	AF2200-M	25	AMA-308	76	AMA-631	75	AMA-965	75
2020FS	46	8910DPA33V02	73	AF3134	26	AMA-312	76	AMA-633	75	AMA-966	75
2B	44	8910DPA33V09	73	AF3135	26	AMA-314	76	AMA-702	75	AMA-967	75
2P20A24V	73	8910DPA33V14	73	AF3136	26	AMA-316	76	AMA-704	75	AMA-968	75
2P30A120V	73	8910DPA43V02	73	AF3138	26	AMA-318	76	AMA-707	75	AMA-969	75
2P30A240V	73	8910DPA43V09	73	AF3140	26	AMA-322	76	AMA-710	75	AMA-970	75
2P30A24V	73	8910DPA43V14	73	AF3142	26	AMA-324	76	AMA-713	75	D109	24
2P40A120V	73	8910DPA53V02	73	AF3144	26	AMA-326	76	AMA-716	75	D110	24
2P40A240V	73	8910DPA53V09	73	AF3148	26	AMA-328	76	AMA-719	75	D111	24
2P40A24V	73	8910DPA53V14	73	AMA-001	75	AMA-332	76	AMA-722	75	D112	24
3030FS	46	8910DPA63V02	73	AMA-001-10	75	AMA-334	76	AMA-725	75	D113	24
3434FY	46	8910DPA63V09	73	AMA-002	75	AMA-336	76	AMA-728	75	D114	24
3458FY	46	8910DPA63V14	73	AMA-002-10	75	AMA-348	76	AMA-731	75	D115	24
3838FZ	46	8910DPA73V02	73	AMA-003	75	AMA-405	77	AMA-733	75	DCH032S	24
3C	44	8910DPA73V09	73	AMA-003-5	75	AMA-406	76	AMA-762	75	DCH033S	24



PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #
DCH052F	24	MA-004CR	45	MA01130-2	52	MA02514P	58	MA02707-2	52	MA02872-1	52
DCH052S	24	MA-004RR	45	MA01164-1	57	MA02521-1	49	MA02724-2	52	MA02873-2	52
DCH053S	24	MA-006CR	45	MA01164C-2	57	MA02522-1	49	MA02726-1	52	MA02875-1	52
DCH082S	24	MA-006RR	45	MA01165-1	57	MA02525-2	62	MA02727-2	52	MA02876-2	52
DCH083S	24	MA01012G	58	MA01165C-2	57	MA02525-3	62	MA02729-1	52	MA02881-1	52
DCH163S	24	MA01012P	58	MA01166-1	57	MA02525-EUKIT	62	MA02729-2	52	MA02882-2	52
DCH164S	24	MA01014G	58	MA01166C-2	57	MA02526-1	51	MA02744-1	52	MA02894-1	52
DCH165S	24	MA01014P	58	MA0126-12	41	MA02528-1	51	MA02745-2	52	MA02894-2	52
DCH303S	24	MA01018-1	57	MA0127-16	41	MA02530-1	51	MA02746-1	52	MA02896-1	50
DCH304S	24	MA01018-2	57	MA0128-25	41	MA02532-1	51	MA02747-2	52	MA02896-2	50
DCH305S	24	MA01018-3	57	MA0129-30	41	MA02534-1	51	MA02749-1	52	MA02898-2	50
DCH306S	24	MA01018BX	57	MA-012CR	45	MA02536-1	51	MA02762-2	52	MA02903-1	50
DCH307S	24	MA01019-1	57	MA-012RR	45	MA02537-1	51	MA02770-1	52	MA02904-2	50
DCH309S	24	MA01019-2	57	MA0130-50	41	MA02541-1	51	MA02771-2	52	MA02906-1	50
DCHBF083S	24	MA01019-3	57	MA0131-100	41	MA02543-1	51	MA02773-1	52	MA02907-2	50
DCHBF163S	24	MA01019BX	57	MA-0160T	27	MA02544-1	51	MA02774-2	52	MA02911-2	50
HOM115	73	MA01019P	57	MA-018CR	45	MA02547-1	51	MA02776-1	52	MA02933-1	56
HOM120	73	MA01020-1	57	MA-018RR	45	MA02548-1	50	MA02777-2	52	MA02936-1	56
HOM130	73	MA01020-2	57	MA02012-1	53	MA02549-1	50	MA02779-1	52	MA02939-2	51
HOM140	73	MA01020-3	57	MA02013-1	51	MA02551-1	50	MA02780-2	52	MA02940-2	51
HOM150	73	MA01020BX	57	MA02014-1	50	MA02577-1	51	MA02782-1	52	MA02942-2	51
HOM215	73	MA01020P	57	MA02015-1	53	MA02578-1	51	MA02783-2	52	MA02944-2	51
HOM220	73	MA01021-1	57	MA02043-1	48	MA02579-1	51	MA02785-1	52	MA02951-2	51
HOM230	73	MA01021-2	57	MA02044-1	48	MA02580-1	51	MA02786-2	52	MA02952-2	51
HOM240	73	MA01021-3	57	MA02045-1	48	MA02581-1	51	MA02816-1	50	MA02955-1	51
HOM250	73	MA01021BX	57	MA02046-1	48	MA02583-1	51	MA02818-1	50	MA02955-2	51
HOM260	73	MA01021P	57	MA02065-1	51	MA02584-1	51	MA02820-1	50	MA02956-1	51
MA00014-1	20	MA01022-1	57	MA02065-2	51	MA02585-1	51	MA02821-1	52	MA02960-1	51
MA00030-1	20	MA01022-2	57	MA02066-1	51	MA02586-1	51	MA02822-2	52	MA02962-2	51
MA00036-1	49	MA01022-3	57	MA02066-2	51	MA02587-1	51	MA02823-1	52	MA02968-1	51
MA00098-1	49	MA01022BX	57	MA02109-1	50	MA02588-1	51	MA02824-2	52	MA02968-2	51
MA00099-1	49	MA01022P	57	MA021120-2	48	MA02589-1	51	MA02825-1	52	MA02969-1	51
MA00100-1	49	MA01023-1	50	MA021120-2B	48	MA02590-1	51	MA02826-2	52	MA02969-2	51
MA00101-1	49	MA01023-2	50	MA02127-1	52	MA02591-1	50	MA02827-1	52	MA02971-2	51
MA00102-1	49	MA01029-1	50	MA02127-2	52	MA02592-1	52	MA02828-2	52	MA02973-1	51
MA00151-1	49	MA01029-2	50	MA02142-1	52	MA02595-1	50	MA02830-1	52	MA02974-2	51
MA00152-1	49	MA01042-1	51	MA02142-2	52	MA02596-2	50	MA02833-1	52	MA02975-2	51
MA00153-1	49	MA01042-2	51	MA02148-2	53	MA02597-2	51	MA02834-2	52	MA02977-2	51
MA00154-1	49	MA01043-1	51	MA02149-2	53	MA02598-2	51	MA02837-2	52	MA02978-2	51
MA-002CR	45	MA01043-2	51	MA02150-2	53	MA02618-2	52	MA02839-1	52	MA02980-1	51
MA-002RR	45	MA01046-1	51	MA02151-2	53	MA02619-2	51	MA02840-2	52	MA02982-2	51
MA-00304	45	MA01046-2	51	MA02152-2	53	MA02620-2	51	MA02842-1	52	MA02983-2	51
MA-003CR	45	MA01066-1	50	MA02153-2	53	MA02621-2	51	MA02843-2	52	MA02984-2	56
MA-003RR	45	MA-010669	8	MA-0230	68	MA02622-2	51	MA02860-1	52	MA02984-3	56
MA00478-1	53	MA01123-1	52	MA02512G	58	MA02623-2	51	MA02861-2	52	MA02985-2	56
MA00479-1	53	MA01124-1	52	MA02512P	58	MA02652-2	53	MA02869-1	52	MA02985-3	56
MA00480-1	53	MA01130-1	52	MA02514G	58	MA02653-2	53	MA02870-2	52	MA02987-2	56

PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #
MA02991-3	56	MA03161-2	49	MA03221-2	58	MA03355-2	43	MA03540-24	42	MA03773-1	52
MA03011-2	50	MA03162-1	49	MA03221-3	58	MA03360-1	52	MA03541-2	42	MA03774-1	52
MA03012-2	50	MA03162-2	49	MA03222-2	58	MA03361-2	52	MA03541-24	42	MA03775-1	50
MA03013-2	51	MA03163-1	49	MA03222-3	58	MA03362-1	52	MA03542-2	42	MA03775-2	50
MA03015-1	51	MA03163-2	49	MA03223-2	58	MA03363-2	52	MA03543-2	42	MA03776-1	52
MA03016-2	51	MA03164-1	49	MA03223-3	58	MA03364-2	64	MA03544-2	42	MA03778-2	52
MA03018-1	51	MA03164-2	49	MA03224-2	58	MA03373-2	57	MA03545-2	42	MA03779-2	52
MA03019-2	51	MA03165-1	49	MA03224-3	58	MA03375-2	43	MA03546-2	42	MA03780-2	52
MA03022-2	51	MA03165-2	49	MA03225-2	58	MA03376-2	43	MA03565-2	42	MA03781-2	52
MA03023-2	51	MA03166-1	49	MA03225-3	58	MA03383-1	53	MA03565-3	42	MA03782-2	52
MA03028-1	51	MA03166-2	49	MA03226-2	58	MA03385-1	53	MA03566-2	42	MA03783-2	52
MA03029-2	51	MA03167-1	49	MA03226-3	58	MA03387-1	53	MA03566-4	42	MA03784-1	52
MA03033-2	50	MA03167-2	49	MA03227-2	58	MA03389-1	53	MA03567-2	42	MA03784-2	52
MA03034-2	50	MA03168-1	49	MA03227-3	58	MA03391-1	53	MA03567-3	42	MA03785-1	52
MA03035-2	50	MA03168-2	49	MA03228-2	58	MA03393-1	53	MA-0360	68	MA03785-2	52
MA03042-1	50	MA03169-1	49	MA03228-3	58	MA03394-1	53	MA-0361	68	MA03790-2	50
MA03063-1	50	MA03169-2	49	MA03229-2	58	MA03395-1	51	MA036175-2	48	MA03791-2	50
MA03075-1	57	MA03171-1	48	MA03229-3	58	MA03395-2	51	MA036175-2B	48	MA03792-2	50
MA03076-2	57	MA03172-2	48	MA03230-2	58	MA03414-2	42	MA-0362	68	MA03793-1	52
MA03077-1	57	MA03174-1	48	MA03230-3	58	MA03414-4	42	MA-0363	68	MA03793-2	52
MA03090-1	56	MA03175-2	48	MA03231-2	58	MA03415-2	42	MA03750-2	54	MA03794-2	52
MA03092-1	56	MA03177-1	48	MA03231-3	58	MA03415-4	42	MA03751-2	57	MA03798-1	52
MA03093-1	56	MA03178-2	48	MA03232-2	58	MA03416-2	42	MA03752-2	54	MA03798-2	52
MA03096-2	56	MA03180-1	48	MA03232-3	58	MA03416-4	42	MA03754-2	54	MA03802-2	54
MA03149-1	49	MA03181-2	48	MA03233-2	58	MA03417-2	42	MA03756-2	54	MA04132-1	57
MA03149-2	49	MA03183-1	48	MA03233-3	58	MA03417-4	42	MA03757-2	54	MA04233-2	57
MA03150-1	49	MA03184-2	48	MA03234-2	58	MA03465-1	51	MA03758-1	42	MA04501-2	71
MA03150-2	49	MA03185-1	48	MA03234-3	58	MA03466-1	51	MA03758-2	42	MA04502-2	71
MA03151-1	49	MA03188-2	48	MA03235-2	58	MA03467-1	51	MA03758-3	42	MA04503-2	71
MA03151-2	49	MA03189-1	48	MA03235-3	58	MA03467-2	51	MA03759-1	42	MA04504-2	71
MA03152-1	49	MA03190-2	48	MA03236-2	58	MA03469-1	51	MA03759-2	42	MA04505-2	71
MA03152-2	49	MA03192-1	48	MA03236-3	58	MA03469-2	51	MA03759-3	42	MA04506-2	71
MA03153-1	49	MA03193-2	48	MA03237-2	58	MA03471-1	51	MA03760-1	42	MA-04625	59
MA03153-2	49	MA03195-1	48	MA03237-3	58	MA03471-2	51	MA03760-2	42	MA04702-2B	48
MA03154-1	49	MA03196-2	48	MA03238-2	58	MA03473-1	51	MA03760-3	42	MA04704-2B	48
MA03154-2	49	MA03198-1	48	MA03238-3	58	MA03473-2	51	MA03761-1	42	MA04706-2B	48
MA03155-1	49	MA03199-2	48	MA03239-2	58	MA03475-1	51	MA03761-2	42	MA04708-2B	48
MA03155-2	49	MA03200-2	39	MA03239-3	58	MA03475-2	51	MA03761-3	42	MA04710-2B	48
MA03156-1	49	MA03203-2	39	MA03240-2	58	MA03477-1	51	MA03762-1	42	MA04712-2B	48
MA03156-2	49	MA03217-2	58	MA03240-3	58	MA03477-2	51	MA03762-2	42	MA04793-2B	48
MA03157-1	49	MA03217-3	58	MA03241-2	58	MA03500-2	37	MA03762-3	42	MA04796-2B	48
MA03157-2	49	MA03218-2	58	MA03241-3	58	MA-03532	34	MA03763-1	42	MA04799-2B	48
MA03158-1	49	MA03218-3	58	MA03343-1	52	MA-03533	34	MA03763-2	42	MA048175-2	48
MA03158-2	49	MA03219-2	58	MA03344-2	52	MA03539-2	42	MA03763-3	42	MA048175-2B	48
MA03159-1	49	MA03219-3	58	MA03344-3	52	MA03539-24	42	MA03765-1	48	MA05007-2	48
MA03159-2	49	MA03220-2	58	MA03349-1	50	MA0353940-MX	42	MA03771-1	52	MA05008-2	48
MA03161-1	49	MA03220-3	58	MA03353-2	43	MA03540-2	42	MA03772-1	52	MA05012G	58

PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #
MA05012P	58	MA-10010	22	MA-1131	68	MA-12053-25	30	MA-12827	2	MA-157A	11
MA05014G	58	MA-1001S	16	MA-11315	44	MA-12053-50	30	MA-12829	3	MA-159A	37
MA05014P	58	MA-10050	22	MA-11354	44	MA-12054	30	MA-12830A	9	MA-15SA	19
MA-05028	44	MA-10075	22	MA-114	37	MA-12054-100	30	MA-12830A-S	9	MA-16501	12
MA05031-2	56	MA-101	63	MA-1141	68	MA-12054-25	30	MA-12835B	8	MA-16505A	12
MA0512G	58	MA-102	63	MA-11830	63	MA-12054-50	30	MA-12837	3	MA-16506	12
MA0512P	58	MA-10214	44	MA-11840	63	MA-12055	30	MA-12838A	8	MA-16507	12
MA0514G	58	MA-10218	44	MA-11853	63	MA-12056	30	MA-12842A	9	MA-16509B	12
MA0514P	58	MA-1028	2	MA-11866	63	MA-12057	30	MA-12843B	8	MA-16531C	8
MA06295-2	57	MA-10344	59	MA-11879	63	MA-12060	31	MA-12844	9	MA-16532	14
MA06295P	57	MA-10345	59	MA-1200	35	MA-12060-100	31	MA-12845A	10	MA-16533	8
MA09353-2	42	MA-10346	59	MA-12004	31	MA-12060-25	31	MA-128500	60	MA-16650	13
MA09354-2	42	MA-10347	59	MA-12004-100	31	MA-12060-50	31	MA-1290EL	27	MA-16551	13
MA-09709	34	MA-10348	59	MA-12004-25	31	MA-1212	71	MA-1290STEL	27	MA-1660A	16
MA-09857	34	MA-10349	59	MA-12004-50	31	MA-1225	71	MA-12CAP	27	MA-1665C	16
MA-09858	34	MA-10350	59	MA-1201	35	MA-12353	6	MA-12CPLG	27	MA-16C81	13
MA0HT12B1	58	MA-1056-075	31	MA-12010	31	MA-12355B	6	MA-12PLG	27	MA-16N	67
MA0HT12B2	58	MA-1056-100	31	MA-12010-100	31	MA-12356	6	MA-12T	27	MA-16RR	67
MA0HT12B3	58	MA-1056-22	31	MA-12010-25	31	MA-12357A	6	MA-12U	27	MA-16SA	19
MA0HT12B4	58	MA-1056-32	31	MA-12010-50	31	MA-12358	6	MA-13025	43	MA-171	41
MA0HT12B5	58	MA-1056-33	31	MA-12013	31	MA-12361	4	MA-132A	41	MA-17255	59
MA0HT12R1	58	MA-1056-44	31	MA-12013-100	31	MA-12362	4	MA-134BG	27	MA-17256	59
MA0HT12R2	58	MA-105NYFIT	29	MA-12013-25	31	MA-1238BG	27	MA-134CPLG	27	MA-17257	59
MA0HT12R3	58	MA10602-1	57	MA-12013-50	31	MA-1245EL	27	MA-14012	63	MA-174	41
MA0HT12R4	58	MA10602-2	57	MA-1202	35	MA-12535	64	MA-14025	63	MA-174D	41
MA0HT12R5	58	MA10602BX	57	MA-12032	30	MA-12537	64	MA-14050	63	MA-175D	41
MA0HT12W1	58	MA10604-1	57	MA-12032-100	30	MA-12545	64	MA-14051	63	MA-176E	41
MA0HT12W2	58	MA10604-2	57	MA-12032-25	30	MA-12547	64	MA-14052	63	MA-179ED	72
MA0HT12W3	58	MA10604BX	57	MA-12032-50	30	MA-12548	64	MA-14053	63	MA-181834	45
MA0HT12W4	58	MA10606-1	57	MA-12033	30	MA-1257	71	MA-14054	63	MA-185	37
MA0HT12W5	58	MA10606-2	57	MA-12033-100	30	MA-1258	71	MA-14055	63	MA-186	37
MA0HT14B1	58	MA10606BX	57	MA-12033-25	30	MA-1266T	27	MA-14056	63	MA-18975	26
MA0HT14B2	58	MA10608-1	57	MA-12033-50	30	MA-12700A	2	MA-14057	63	MA-18985	26
MA0HT14B3	58	MA10608-2	57	MA-12034	30	MA-12701	9	MA-142-1	11	MA-190EL	27
MA0HT14B4	58	MA10608BX	57	MA-12034-100	30	MA-12702	9	MA-142A	11	MA-190STEL	27
MA0HT14B5	58	MA10610P	57	MA-12034-25	30	MA-12813	5	MA-142MA	11	MA-19173	26
MA0HT14R1	58	MA-10DT12	18	MA-12034-50	30	MA-12814	4	MA-143A	11	MA-1CAP	27
MA0HT14R2	58	MA-10DT34	18	MA-12035	30	MA-12815A	9	MA-143M	11	MA-1CPLG	27
MA0HT14R3	58	MA-1109	68	MA-12035-100	30	MA-12815A-24	9	MA-145EL	27	MA-1PLG	27
MA0HT14R4	58	MA-11-12X	63	MA-12035-25	30	MA-12816A	4	MA-147B	36	MA-1RR	39
MA0HT14R5	58	MA-1115	68	MA-12035-50	30	MA-12817B	2	MA-149	11	MA-1T	27
MA0HT14W1	58	MA-1119	68	MA-12052	30	MA-12818	2	MA-149-1	11	MA-1U	27
MA0HT14W2	58	MA-1122	68	MA-12052-100	30	MA-12819	9	MA-1500	62	MA-2001	33
MA0HT14W3	58	MA-112BG	27	MA-12052-25	30	MA-12821	9	MA-15005	22	MA-20010	22
MA0HT14W4	58	MA-112CPLG	27	MA-12052-50	30	MA-12822B	5	MA-15007	22	MA-2001S	16
MA0HT14W5	58	MA-1-12X	63	MA-12053	30	MA-12823	4	MA-15008	22	MA-2002S	16
MA-1001	33	MA-11302	44	MA-12053-100	30	MA-12826B	5	MA-157-1	11	MA-2003S	16

PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #
MA-20050	22	MA-22014-100	31	MA-22120	30	MA-22185-50	31	MA-30075	22	MA-31231	64
MA-20075	22	MA-22014-25	31	MA-22120-100	30	MA-22186	31	MA-30105	28	MA-31318	28
MA-202	40	MA-22014-50	31	MA-22120-25	30	MA-22186-100	31	MA-30107	28	MA-31348	28
MA-202RB	40	MA-22031	30	MA-22120-50	30	MA-22186-25	31	MA-30110	28	MA-31405	28
MA-20534	77	MA-22031-100	30	MA-22122	30	MA-22186-50	31	MA-30132	44	MA-31407	28
MA-207013	28	MA-22031-25	30	MA-22122-100	30	MA-22187	31	MA-30155	28	MA-31410	28
MA-207030	28	MA-22031-50	30	MA-22122-25	30	MA-22187-100	31	MA-30157	28	MA-317G	39
MA-20SA	19	MA-22048	31	MA-22122-50	30	MA-22187-25	31	MA-30158	28	MA-322-2	64
MA-21/2SA	19	MA-22048-100	31	MA-22151	30	MA-22187-50	31	MA-301C	40	MA-322-3	64
MA-213	20	MA-22048-25	31	MA-22151-100	30	MA-22192	30	MA-30200	44	MA-3268C	5
MA-22002	31	MA-22048-50	31	MA-22151-25	30	MA-22192-100	30	MA-30275	28	MA-3268WC	5
MA-22002-100	31	MA-22049	31	MA-22151-50	30	MA-22192-25	30	MA-303	43	MA-32831	56
MA-22002-25	31	MA-22049-100	31	MA-22152	30	MA-22192-50	30	MA-303/357RB	33	MA-32832	56
MA-22002-50	31	MA-22049-25	31	MA-22152-100	30	MA-22263	30	MA-30301	20	MA-32905	28
MA-22003	31	MA-22049-50	31	MA-22152-25	30	MA-22263-100	30	MA-30303	20	MA-32907	28
MA-22003-100	31	MA-22064	30	MA-22152-50	30	MA-22263-25	30	MA-30305	28	MA-32950	61
MA-22003-25	31	MA-22064-100	30	MA-22153	30	MA-22263-50	30	MA-30307	28	MA-32N	67
MA-22003-50	31	MA-22064-25	30	MA-22153-100	30	MA-22264	30	MA-30311	28	MA-32SA	19
MA-22005	31	MA-22064-50	30	MA-22153-25	30	MA-22264-100	30	MA-30357	28	MA-33002	26
MA-22005-100	31	MA-22065	30	MA-22153-50	30	MA-22264-25	30	MA-30405	28	MA-33005	26
MA-22005-25	31	MA-22065-100	30	MA-22154	30	MA-22264-50	30	MA-30407	28	MA-33008	26
MA-22005-50	31	MA-22065-25	30	MA-22154-100	30	MA-22286	29	MA-30410	28	MA-33350	68
MA-22006	31	MA-22065-50	30	MA-22154-25	30	MA-22286-100	29	MA-30457	28	MA-33570	68
MA-22006-100	31	MA-22066	30	MA-22154-50	30	MA-22286-25	29	MA-30605	28	MA-337	39
MA-22006-25	31	MA-22066-100	30	MA-22157	29	MA-22286-50	29	MA-30607	28	MA-33905	28
MA-22006-50	31	MA-22066-25	30	MA-22157-100	29	MA-22289	29	MA-30610	28	MA-33907	28
MA-22007	31	MA-22066-50	30	MA-22157-25	29	MA-22289-100	29	MA-30705	28	MA-33910	28
MA-22007-100	31	MA-22112	30	MA-22157-50	29	MA-22289-25	29	MA-30707	28	MA-33C	3
MA-22007-25	31	MA-22112-100	30	MA-22159	29	MA-22289-50	29	MA-30710	28	MA-340-5	60
MA-22007-50	31	MA-22112-25	30	MA-22159-100	29	MA-22290	29	MA-30818	63	MA-341212T	27
MA-22009	31	MA-22112-50	30	MA-22159-25	29	MA-22290-100	29	MA-30821	63	MA-3412BG	27
MA-22009-100	31	MA-22113	30	MA-22159-50	29	MA-22290-25	29	MA-30834	63	MA-3412CPLG	27
MA-22009-25	31	MA-22113-100	30	MA-22160	29	MA-22290-50	29	MA-30847	63	MA-343412T	27
MA-22009-50	31	MA-22113-25	30	MA-22160-100	29	MA-2300	62	MA-30F3	21	MA-3445EL	27
MA-22010	31	MA-22113-50	30	MA-22160-25	29	MA-25E29821	23	MA-30SA	19	MA-3466T	27
MA-22010-100	31	MA-22114	30	MA-22160-50	29	MA-25E29831	23	MA-31012	63	MA-34790	68
MA-22010-25	31	MA-22114-100	30	MA-22161	29	MA-25E29832	23	MA-31013	63	MA-3490EL	27
MA-22010-50	31	MA-22114-25	30	MA-22161-100	29	MA-25E59	23	MA-31014	63	MA-3490STEL	27
MA-22012	31	MA-22114-50	30	MA-22161-25	29	MA-25E80	23	MA-31015	63	MA-34CAP	27
MA-22012-100	31	MA-22116	30	MA-22161-50	29	MA-263	20	MA-311	43	MA-34CPLG	27
MA-22012-25	31	MA-22116-100	30	MA-22182	31	MA-263-R	20	MA-31132	63	MA-34PLG	27
MA-22012-50	31	MA-22116-25	30	MA-22182-100	31	MA-290	36	MA-31133	63	MA-34RUEL	17
MA-22013	31	MA-22116-50	30	MA-22182-25	31	MA-2E1441	23	MA-31226	64	MA-34T	27
MA-22013-100	31	MA-22117	30	MA-22182-50	31	MA-2E1442	23	MA-31227	64	MA-34U	27
MA-22013-25	31	MA-22117-100	30	MA-22185	31	MA-2WK	67	MA-31228	64	MA-3600	54
MA-22013-50	31	MA-22117-25	30	MA-22185-100	31	MA-30038	22	MA-31229	64	MA-3612	54
MA-22014	31	MA-22117-50	30	MA-22185-25	31	MA-30050	22	MA-31230	64	MA-38RUEL	17

PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #
MA-398	64	MA-437131	28	MA-4E122	23	MA4L460	66	MA5L350	66	MA-60610	37
MA-398BL	64	MA-437292	28	MA-4E123	23	MA4L470	66	MA5L360	66	MA-60613	37
MA3L310	66	MA-437339	28	MA-4E124	23	MA4L480	66	MA5L370	66	MA-60613-25	37
MA3L320	66	MA-440G	39	MA-4E21	23	MA4L490	66	MA5L380	66	MA-60616	37
MA3L330	66	MA-447025	28	MA-4E22	23	MA4L500	66	MA5L390	66	MA-60616-25	37
MA3L340	66	MA-447040	28	MA-4E23	23	MA4L510	66	MA5L400	66	MA-60743	34
MA3L350	66	MA-448007	28	MA-4E24	23	MA4L520	66	MA5L410	66	MA-60954	34
MA3L360	66	MA-450007	28	MA-4E421	22	MA4L530	66	MA5L420	66	MA-60A	16
MA3L370	66	MA-457005	28	MA-4E422	22	MA4L540	66	MA5L430	66	MA-60AFF	16
MA3L380	66	MA-457007	28	MA-4E48	22	MA4L550	66	MA5L440	66	MA-60F3	21
MA3L390	66	MA-457010	28	MA-4E5090A	21	MA4L560	66	MA5L450	66	MA-60NF3	21
MA3L400	66	MA-457012	28	MA-4E50A	21	MA4L570	66	MA5L460	66	MA-61/4SA	19
MA3L410	66	MA-457015	28	MA-4E51	22	MA4L580	66	MA5L470	66	MA61000	65
MA3L420	66	MA-457020	28	MA-4E57	22	MA4L590	66	MA5L480	66	MA61056	65
MA3L430	66	MA-465	32	MA-4E58	22	MA4L600	66	MA5L490	66	MA-61623	34
MA3L440	66	MA-46810	77	MA-4E59A	23	MA4L610	66	MA5L500	66	MA-6182	53
MA3L450	66	MA-49051	61	MA-4E75	21	MA4L620	66	MA5L510	66	MA-61834	34
MA3L460	66	MA-49052B	61	MA-4E7590	21	MA4L630	66	MA5L520	66	MA-6183	53
MA3L470	66	MA-49052AUS	61	MA4L170	66	MA4L640	66	MA5L530	66	MA-6184	53
MA3L480	66	MA-49052EPC	61	MA4L180	66	MA4L650	66	MA5L540	66	MA-6185	53
MA-40038	33	MA-49090	59	MA4L190	66	MA4L660	66	MA5L550	66	MA-6186	53
MA-40050	33	MA-49091	59	MA4L200	66	MA4L670	66	MA5L560	66	MA-6187	53
MA-40075	33	MA-49092	59	MA4L210	66	MA4L680	66	MA5L570	66	MA-6188	53
MA-400RC123	60	MA-49116	26	MA4L220	66	MA4L690	66	MA5L580	66	MA-6192	53
MA-400RC30	60	MA-49191	59	MA4L230	66	MA4L700	66	MA5L590	66	MA-6193	53
MA-400RC50	60	MA-49192	59	MA4L240	66	MA4L710	66	MA5L600	66	MA-6194	53
MA-401020	28	MA-49193	59	MA4L250	66	MA4L720	66	MA5L610	66	MA-6195	53
MA-401025	28	MA-492B	31	MA4L260	66	MA-4LC20D	21	MA5L620	66	MA-6196	53
MA-4012W	21	MA-492W	31	MA4L270	66	MA-4LC20E	21	MA5L630	66	MA-6197	53
MA-4034W	21	MA-49310	35	MA4L280	66	MA-4LC43D	21	MA5L640	66	MA-6198	53
MA-406025	28	MA-493114	35	MA4L290	66	MA-4LC43E	21	MA5L650	66	MA-6202BX	18
MA-407074	28	MA-49316	35	MA4L300	66	MA-50ABF	16	MA5L660	66	MA-6203BX	18
MA-409010	28	MA-49317	35	MA4L310	66	MA-5406BX	18	MA5L670	66	MA-62044	34
MA-410005	28	MA-49318	35	MA4L320	66	MA-5408BX	18	MA5L680	66	MA-6204BX	18
MA-410007	28	MA-49320	37	MA4L330	66	MA-5410BX	18	MA5L690	66	MA-6205BX	18
MA-410010	28	MA-49324	37	MA4L340	66	MA-5412BX	18	MA5L700	66	MA-6206BX	18
MA-4101	28	MA-49330	37	MA4L350	66	MA-5416BX	18	MA5L710	66	MA-63223	34
MA-410101	28	MA-49331	37	MA4L360	66	MA-5420BX	18	MA5L720	66	MA-63493	34
MA-41300	68	MA-49332	37	MA4L370	66	MA-5428BX	18	MA-5TCA	43	MA-64N	67
MA-417025	28	MA-49333	37	MA4L380	66	MA-5432BX	18	MA60042	65	MA-65093	34
MA-429025	28	MA-49334	37	MA4L390	66	MA-56188	18	MA60048	65	MA-650B	48
MA-430G	39	MA-49858A	56	MA4L400	66	MA-563211	60	MA60049K	65	MA-650N	48
MA-43482	66	MA-4E104A	22	MA4L410	66	MA-572A	68	MA-600CF	6	MA-651	43
MA-43484	66	MA-4E110	22	MA4L420	66	MA-5DT1	18	MA-6012W	21	MA-67363	34
MA-43486	66	MA-4E1101	22	MA4L430	66	MA-5DT112	18	MA60306K	65	MA68004	65
MA-43488	66	MA-4E1102	22	MA4L440	66	MA-5DT114	18	MA-6034W	21	MA-68150	21
MA-436074	28	MA-4E121	23	MA4L450	66	MA5L340	66	MA-60609	37	MA-70059P	36

PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #
MA-70072	37	MA-71802P	41	MA-7605	71	MA-7661	72	MA-9311	39	MA-9637	42
MA-70073	37	MA-71803P	41	MA-7606	71	MA-7662	72	MA-9312	39	MA-9637	42
MA-70074	37	MA-72023	34	MA-7607	71	MA-7663	72	MA-9314	39	MA-9638	42
MA-70091	37	MA-72066	37	MA-7608	71	MA-7664	72	MA-9316	39	MA-9639	42
MA-70093	37	MA-72314	34	MA-7611	71	MA-7665	72	MA-93482	66	MA-9640	42
MA-70094	37	MA-72433	39	MA-76110	68	MA-7667	72	MA-93484	66	MA-9641	42
MA-70095	37	MA-72435	39	MA-7612	72	MA-7668	72	MA-93486	66	MA-9642	42
MA-70097	37	MA-72437	39	MA-7613	72	MA-7669	72	MA-93488	66	MA-9643	42
MA-70098	37	MA-72439	39	MA-7614	72	MA-7670	71	MA-9355	39	MA-9644	42
MA-70099	37	MA-72744	34	MA-7615	72	MA-7671	71	MA-9357	36	MA-9645	42
MA-70100	37	MA-72815	28	MA-7617	72	MA-7672	71	MA-9358 -12	36	MA-9646	42
MA-70115	28	MA-72820	28	MA-7618	72	MA-7673	71	MA-9601	42	MA-9647	42
MA-70116	28	MA-72830	28	MA-7621	71	MA-7674	72	MA-9602	42	MA-9648	42
MA-70120	28	MA-7300	44	MA-7624	71	MA-78TERM	50	MA-9603	42	MA-9649	42
MA-70121	28	MA-73093	34	MA-7625	71	MA80105	65	MA-9604	42	MA-9650	42
MA-70122	28	MA-73101	59	MA-7626	71	MA-8016	68	MA-9605	42	MA-9651	42
MA-70130	28	MA-73102	59	MA-7630	72	MA80293	65	MA-9606	42	MA-9652	42
MA-70132	28	MA-73103	59	MA-7631	72	MA-8032	68	MA-9607	42	MA-9653	42
MA-70133	28	MA-73104	59	MA-7632	72	MA-8201	56	MA-9608	42	MA-9654	42
MA-70-14JR	41	MA-73105	59	MA-7633	72	MA-8202A	56	MA-9609	42	MA-9655	42
MA-70151	28	MA-73106	59	MA-7634	72	MA-8203	56	MA-9610	42	MA-9656	42
MA-70152	28	MA-73107	59	MA-7635	72	MA-8205	56	MA-9611	42	MA-9657	42
MA-70153	28	MA-73108	59	MA-7636	72	MA-8250A	61	MA-9612	42	MA-9658	42
MA-70204	34	MA-73109	59	MA-7637	72	MA-8206	56	MA-9613	42	MA-9659	42
MA-70221	28	MA-73110	59	MA-7638	72	MA-8207	56	MA-9614	42	MA-9660	42
MA-70231	28	MA-73111	59	MA-7639	72	MA-821	6	MA-9615	42	MA-9661	42
MA-70232	28	MA-73112	59	MA-7640	72	MA-823	6	MA-9616	42	MA-9662	42
MA-70250	41	MA-7321	56	MA-7641	72	MA-8400	41	MA-9617	42	MA-9663	42
MA-70251	41	MA-7339	10	MA-7642	72	MA-8408	41	MA-9618	42	MA-9664	42
MA-70252	41	MA-73532	44	MA-7643	72	MA-8410	54	MA-9619	42	MA-9665	42
MA-70253	41	MA-73815	28	MA-7644	72	MA-8411	54	MA-9620	42	MA-992015	44
MA-70254	41	MA-73820	28	MA-7645	72	MA-8412	54	MA-9621	42	MA-AA45E	41
MA-70255	41	MA-73830	28	MA-7646	72	MA-8414	54	MA-9622	42	MA-AA46V	41
MA-70256	41	MA-7409	10	MA-7647	72	MA-8415	54	MA-9623	42	MA-AA47R	41
MA-70257	41	MA-74213	34	MA-7648	71	MA-8646L	44	MA-9624	42	MA-ABC-1	20
MA-70343	34	MA-748325A	34	MA-7649	71	MA-8646M	44	MA-9625	42	MA-ABC-10	20
MA-70474	34	MA-7514	72	MA-7650	71	MA-8646XL	44	MA-9626	42	MA-ABC-12	20
MA-70615	28	MA-7515	72	MA-7651	71	MA-88057	35	MA-9627	42	MA-ABC-15	20
MA-70620	28	MA-7518	71	MA-7652	71	MA-88081	35	MA-9628	42	MA-ABC-2	20
MA-70630	28	MA-7519	20	MA-7653TR	71	MA-88091	35	MA-9629	42	MA-ABC-20	20
MA-71115	28	MA-7525	72	MA-7654	71	MA-90303	59	MA-9630	42	MA-ABC-3	20
MA-71120	28	MA-7599	72	MA-7655	71	MA-90304	59	MA-9631	42	MA-ABC-30	20
MA-71130	28	MA-7600	71	MA-7656	71	MA-90502	59	MA-9632	42	MA-ABC-5	20
MA-71-132R	41	MA-7601	71	MA-7657	71	MA-90503	59	MA-9633	42	MA-ABC-6	20
MA-71354	34	MA-7602	71	MA-7658	71	MA-9306	39	MA-9634	42	MA-ABC-8	20
MA-71493	34	MA-7603	71	MA-7659	72	MA-9308	39	MA-9635	42	MA-ACB36	65
MA-71801P	41	MA-7604	71	MA-7660	72	MA-9310	39	MA-9636	42	MA-ACB42	65

PHONE: 1-800-956-8220  
PHONE: 1-847-956-8200

MA-LINE 2018 CATALOG  
[www.ma-line.com](http://www.ma-line.com)

FAX: 1-800-336-8291  
FAX: 1-847-956-8237

PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #
MA-ACB48	65	MA-ATC25	20	MA-BN34412	27	MA-C6435BR	64	MA-CP35-240	61	MA-D115	73
MA-AGC-1	20	MA-ATC3	20	MA-BN345	27	MA-C6435G	64	MA-CSSC21-18	59	MA-D120	73
MA-AGC-1/2	20	MA-ATC30	20	MA-BN34512	27	MA-C6435GN	64	MA-CSSC21-24	59	MA-D120	73
MA-AGC-1/32	20	MA-ATC4	20	MA-BN346	27	MA-C6435O	64	MA-CSSC21-36	59	MA-D130	73
MA-AGC-1/4	20	MA-ATC5	20	MA-BN34CL	27	MA-C6435R	64	MA-CSSC21-48	59	MA-D130040	28
MA-AGC-10	20	MA-ATC7.5	20	MA-BP001	43	MA-C6435W	64	MA-CSSC21-60	59	MA-D140	73
MA-AGC-11/2	20	MA-BC1	18	MA-BP112	27	MA-C6435Y	64	MA-CSSC21-72	59	MA-D150	73
MA-AGC-11/4	20	MA-BC112	18	MA-BP118	27	MA-C6488	64	MA-CSSC54-12	59	MA-D160	73
MA-AGC-15	20	MA-BC114	18	MA-BP1212	27	MA-C950	64	MA-CSSC54-18	59	MA-D215	73
MA-AGC-2	20	MA-BC12	18	MA-BP1218	27	MA-C950-4	64	MA-CSSC54-24	59	MA-D220	73
MA-AGC-20	20	MA-BC14	18	MA-BP1224	27	MA-CCT11	47	MA-CSSC54-36	59	MA-D230	73
MA-AGC-25	20	MA-BC2	18	MA-BP1230	27	MA-CCT11-K	47	MA-CSSC54-48	59	MA-D240	73
MA-AGC-3	20	MA-BC34	18	MA-BP1236	27	MA-CCT14	47	MA-CSSC54-60	59	MA-D250	73
MA-AGC-3/4	20	MA-BC38	18	MA-BP124	27	MA-CCT14-K	47	MA-CSSC54-72	59	MA-D260	73
MA-AGC-30	20	MA-BDHTR	16	MA-BP1248	27	MA-CCT15	47	MA-CSSD54-12	59	MA-D300040	28
MA-AGC-4	20	MA-BDIOT	16	MA-BP1260	27	MA-CCT15-K	47	MA-CSSD54-18	59	MA-D304040	28
MA-AGC-5	20	MA-BF1	63	MA-BP130	27	MA-CCT7	47	MA-CSSD54-24	59	MA-D309015	28
MA-AGC-6	20	MA-BFC	63	MA-BP136	27	MA-CCT7-K	47	MA-CSSD54-36	59	MA-D309020	28
MA-AGC-7	20	MA-BI4	62	MA-BP148	27	MA-CCW403	66	MA-CSSD54-48	59	MA-D309030	28
MA-AGC-8	20	MA-BI6	62	MA-BP160	27	MA-CCW404	66	MA-CSSD54-60	59	MA-D321040	28
MA-AGC-9	20	MA-BN12	27	MA-BP3412	27	MA-CCW505	66	MA-CSSD54-72	59	MA-D323015	28
MA-AL9V	33	MA-BN12112	27	MA-BP3418	27	MA-CCW605	66	MA-CT1	64	MA-D323020	28
MA-ALAA	33	MA-BN1212	27	MA-BP3424	27	MA-CCW606	66	MA-CVT1	17	MA-D323030	28
MA-ALAAA	33	MA-BN122	27	MA-BP3430	27	MA-CCW703	66	MA-CVT12	17	MA-D400040	28
MA-ALC	33	MA-BN12212	27	MA-BP3436	27	MA-CF1	18	MA-CVT14	17	MA-DLSN71	7
MA-ALD	33	MA-BN123	27	MA-BP3448	27	MA-CF-100	18	MA-CVT316	17	MA-DM1	4
MA-AN84A	8	MA-BN12312	27	MA-BP3460	27	MA-CF-50	18	MA-CVT34	17	MA-DMT123	14
MA-AP132	33	MA-BN124	27	MA-BT1	18	MA-CGD383	10	MA-CVT38	17	MA-DMT123KIT	14
MA-AP3172	33	MA-BN12412	27	MA-BT112	18	MA-CGD383-SP	10	MA-CVT58	17	MA-DMT3	4
MA-AP890	40	MA-BN125	27	MA-BT114	18	MA-CH100	61	MA-CVT78	17	MA-DMTK	4
MA-AP8SD	36	MA-BN12512	27	MA-BT12	18	MA-CH101	61	MA-CW300	66	MA-DMTKA	4
MA-AT12	17	MA-BN126	27	MA-BT2	18	MA-CH101-1	61	MA-CW301	66	MA-DMTK1	4
MA-AT14	17	MA-BN12CL	27	MA-BT34	18	MA-CH101-2	61	MA-CW401	66	MA-DMTL	4
MA-AT14-5	17	MA-BN13	27	MA-BTG54VL	67	MA-CH101-3	61	MA-CW406	66	MA-DMTL1	4
MA-AT18	17	MA-BN1312	27	MA-BTG54VLW	67	MA-CH102	61	MA-CW501	66	MA-DMTP	4
MA-AT18-5	17	MA-BN14	27	MA-BTGDB	67	MA-CH102-1	61	MA-CW502	66	MA-DS4	62
MA-AT316	17	MA-BN1412	27	MA-BTGDK	67	MA-CH102-2	61	MA-CW503	66	MA-DS6	62
MA-AT316-5	17	MA-BN15	27	MA-BTGEK	67	MA-CH103	61	MA-CW601	66	MA-DT1	18
MA-AT38	17	MA-BN1512	27	MA-BTGK	67	MA-CH103-2	61	MA-CW650	66	MA-DT112	18
MA-AT38-5	17	MA-BN16	27	MA-BTGKM	67	MA-CH135	61	MA-CW652	66	MA-DT114	18
MA-AT516	17	MA-BN1CL	27	MA-BTGRK	67	MA-CIMK2	62	MA-CW665	66	MA-DT12	18
MA-AT58	17	MA-BN34112	27	MA-BTGUK2	67	MA-CKN1	39	MA-CW701	66	MA-DT2	18
MA-AT716	17	MA-BN342	27	MA-BTGUM	67	MA-CL1	35	MA-CW801	66	MA-DT34	18
MA-ATC10	20	MA-BN34212	27	MA-BTGUWM	67	MA-CO801	9	MA-CW802	66	MA-E0PL	22
MA-ATC15	20	MA-BN343	27	MA-C6408	64	MA-CP1	61	MA-D100040	28	MA-E100	21
MA-ATC2	20	MA-BN34312	27	MA-C6433	64	MA-CP2	61	MA-D102420	28	MA-E10090	21
MA-ATC20	20	MA-BN344	27	MA-C6435B	64	MA-CP35-120	61	MA-D102422	28	MA-E104A	22

PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #
MA-E105	22	MA-E298-31	23	MA-E51	22	MA-ECNR35	19	MA-FNM30	20	MA-FRSR12	19
MA-E106	22	MA-E298-32	23	MA-E52PL	23	MA-ECNR40	19	MA-FNM35	20	MA-FRSR125	19
MA-E107	22	MA-E298-41	23	MA-E554	74	MA-ECNR45	19	MA-FNM40	20	MA-FRSR15	19
MA-E10S	23	MA-E298-42	23	MA-E560	74	MA-ECNR5	19	MA-FNQ10	20	MA-FRSR150	19
MA-E110	22	MA-E298-43	23	MA-E564	74	MA-ECNR50	19	MA-FNQ12	20	MA-FRSR175	19
MA-E110-1	22	MA-E298-51	23	MA-E57	22	MA-ECNR6.25	19	MA-FNQ15	20	MA-FRSR2	19
MA-E110-2	22	MA-E298-52	23	MA-E570	74	MA-ECNR60	19	MA-FNQ20	20	MA-FRSR2.5	19
MA-E110-3	22	MA-E298-53	23	MA-E571	74	MA-ECNR70	19	MA-FNQ25	20	MA-FRSR20	19
MA-E110-4	22	MA-E298-54	23	MA-E572	74	MA-ECNR80	19	MA-FNQ30	20	MA-FRSR200	19
MA-E110-5	22	MA-E2PL	22	MA-E573	74	MA-ECSR10	19	MA-FRBS8	38	MA-FRSR225	19
MA-E121	23	MA-E2PL-1	22	MA-E574	74	MA-ECSR100	19	MA-FRNR1	19	MA-FRSR25	19
MA-E122	23	MA-E2PL25	22	MA-E575	74	MA-ECSR125	19	MA-FRNR1.25	19	MA-FRSR3.2	19
MA-E123	23	MA-E30	23	MA-E58	22	MA-ECSR15	19	MA-FRNR1.6	19	MA-FRSR30	19
MA-E124	23	MA-E303	74	MA-E584	74	MA-ECSR150	19	MA-FRNR10	19	MA-FRSR35	19
MA-E125	23	MA-E303D	74	MA-E59	23	MA-ECSR20	19	MA-FRNR100	19	MA-FRSR4	19
MA-E126	23	MA-E304EXT	74	MA-E590	74	MA-ECSR200	19	MA-FRNR110	19	MA-FRSR40	19
MA-E127	23	MA-E350EXT	74	MA-E594	74	MA-ECSR25	19	MA-FRNR12	19	MA-FRSR45	19
MA-E128	23	MA-E352	74	MA-E5S	23	MA-ECSR30	19	MA-FRNR125	19	MA-FRSR5	19
MA-E129	23	MA-E353	74	MA-E60PL	23	MA-ECSR35	19	MA-FRNR15	19	MA-FRSR50	19
MA-E130	23	MA-E353D	74	MA-E61PL	23	MA-ECSR40	19	MA-FRNR150	19	MA-FRSR6.25	19
MA-E144-1	23	MA-E363D	74	MA-E65PL	23	MA-ECSR45	19	MA-FRNR175	19	MA-FRSR60	19
MA-E144-2	23	MA-E37-1	23	MA-E69PL	23	MA-ECSR50	19	MA-FRNR2	19	MA-FRSR70	19
MA-E1PL	22	MA-E37-2	23	MA-E75	21	MA-ECSR60	19	MA-FRNR2.5	19	MA-FRSR8	19
MA-E200	74	MA-E37-3	23	MA-E7590	21	MA-ECSR70	19	MA-FRNR20	19	MA-FRSR80	19
MA-E200EXT	74	MA-E374	74	MA-E7S	23	MA-ECSR80	19	MA-FRNR200	19	MA-FRSR90	19
MA-E201	74	MA-E374D	74	MA-E80	23	MA-ECSR90	19	MA-FRNR225	19	MA-FT1A	64
MA-E201-3/4	74	MA-E376	23	MA-E81	23	MA-EM3213A	10	MA-FRNR25	19	MA-FWP1/2	38
MA-E202	74	MA-E377	23	MA-E82	23	MA-EM3215	10	MA-FRNR3.2	19	MA-FWP1/4	38
MA-E21	23	MA-E378	23	MA-E83	23	MA-ETP110	16	MA-FRNR30	19	MA-FWP10MM	38
MA-E22	23	MA-E379	23	MA-E900	23	MA-EXT4	21	MA-FRNR35	19	MA-FWP11MM	38
MA-E23	23	MA-E380	23	MA-E901	23	MA-F336	67	MA-FRNR4	19	MA-FWP13MM	38
MA-E2390-2	23	MA-E3PL	22	MA-E902	23	MA-FA134	44	MA-FRNR40	19	MA-FWP14MM	38
MA-E24	23	MA-E3PL-1	22	MA-E903	23	MA-FB2	35	MA-FRNR45	19	MA-FWP16MM	38
MA-E25	23	MA-E3PL25	22	MA-E904	23	MA-FL1063C	32	MA-FRNR5	19	MA-FWP3/8	38
MA-E251	74	MA-E42-1	22	MA-E96-1CG	23	MA-FL1438	32	MA-FRNR50	19	MA-FWP5/16	38
MA-E252	74	MA-E42-2	22	MA-E96-2CG	23	MA-FL3A	33	MA-FRNR6.25	19	MA-FWP5/8	38
MA-E253	74	MA-E42-3	22	MA-E96-4CG	23	MA-FL3BUV	33	MA-FRNR60	19	MA-FWP6MM	38
MA-E254	74	MA-E42-4	22	MA-E96-5CG	23	MA-FL460	32	MA-FRNR70	19	MA-FWP7	38
MA-E255	74	MA-E42-5	22	MA-ECNR10	19	MA-FL6287	32	MA-FRNR8	19	MA-FWP7-MET	38
MA-E26	23	MA-E48	22	MA-ECNR100	19	MA-FM50	65	MA-FRNR80	19	MA-FWP7/16	38
MA-E27	23	MA-E4PL	22	MA-ECNR125	19	MA-FM55	65	MA-FRNR90	19	MA-FWP8MM	38
MA-E272	74	MA-E504	74	MA-ECNR15	19	MA-FM554A	65	MA-FRSR1	19	MA-FWP9/16	38
MA-E273	74	MA-E508D	74	MA-ECNR20	19	MA-FNM10	20	MA-FRSR1.25	19	MA-GF1	18
MA-E274	74	MA-E508T	74	MA-ECNR200	19	MA-FNM12	20	MA-FRSR1.6	19	MA-GF-100	18
MA-E28	23	MA-E509	74	MA-ECNR25	19	MA-FNM15	20	MA-FRSR10	19	MA-GF-50	18
MA-E29	23	MA-E5090A	21	MA-ECNR3.2	19	MA-FNM20	20	MA-FRSR100	19	MA-GH25	68
MA-E298-21	23	MA-E50A	21	MA-ECNR30	19	MA-FNM25	20	MA-FRSR110	19	MA-GH50	68



PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #
		MA-KVS008A	40	MA-MDL-3/4	20	MA-NON45	19	MA-P6012W	21	MA-PVC42	41
		MA-L42	41	MA-MDL-30	20	MA-NON50	19	MA-P6034W	21	MA-PWN46	57
MA-HDT1	17	MA-L42RB	41	MA-MDL-4	20	MA-NON6	19	MA-PAK-1	48	MA-Q115	73
MA-HDT12	17	MA-L50	41	MA-MDL-5	20	MA-NON60	19	MA-PAK-2	48	MA-Q120	73
MA-HDT14	17	MA-L50RB	41	MA-MDL-6	20	MA-NON70	19	MA-PAK-3	48	MA-Q125	73
MA-HDT316	17	MA-LC20D	21	MA-MDL-7	20	MA-NON80	19	MA-PDT392B	15	MA-Q130	73
MA-HDT34	17	MA-LC20E	21	MA-MDL-8	20	MA-NS1	35	MA-PG1	66	MA-Q140	73
MA-HDT38	17	MA-LC43D	21	MA-MFC1	35	MA-NS1000	35	MA-PH100	18	MA-Q150	73
MA-HDT58	17	MA-LC43E	21	MA-MFC2	35	MA-NS12	35	MA-PH50	18	MA-Q160	73
MA-HDT78	17	MA-LF462C	34	MA-MFC3	35	MA-NS14	35	MA-PLB1	33	MA-Q2100	73
MA-HML3C	32	MALS-105A	69	MA-MGT1	42	MA-NS16	35	MAPLPH1050A	70	MA-Q2125	73
MA-HP3	21	MALS-105A-P	69	MA-MHG-2	7	MA-NS18	35	MAPLPH1210E	70	MA-Q215	73
MA-HP3-2P	21	MALS-125E1	69	MAMJ120	70	MA-NS2	35	MAPLPH1810E	70	MA-Q220	73
MA-HP6	21	MALS-135A	69	MAMJ120-P	70	MA-NS2000	35	MAPLPH2010E	70	MA-Q225	73
MA-HP6-2P	21	MALS-135A-P	69	MAMJ40	70	MA-NS22	35	MAPLPH2410E	70	MA-Q230	73
MA-HRFT1	16	MALS-160E1	69	MAMJ40-P	70	MA-NS24	35	MAPLPH2610A	70	MA-Q240	73
MA-HS50	61	MALS-190A	69	MAMJ70	70	MA-NS26	35	MAPLPH360E	70	MA-Q250	73
MA-HT1	63	MALS-190A-P	69	MAMJ70-P	70	MA-NS28	35	MAPLPH410	70	MA-Q260	73
MA-HT64	63	MALS-210E1	69	MAMJ90	70	MA-NS32	35	MAPLPH530A	70	MA-Q270	73
MA-HTSS-R	63	MALS-210E2	69	MAMJ90-P	70	MA-NS36	35	MAPLPH660A	70	MA-Q280	73
MA-HU1	62	MALS-240A	69	MA-MMD3E	10	MA-NS40	35	MAPLPH660E	70	MA-Q290	73
MA-HWA02	18	MALS-280E1	69	MA-MT13	40	MA-NSPD1	35	MAPLPH710A	70	MA-QP400	39
MA-HWA05	18	MALS-280E2	69	MA-MT53	40	MA-NW110	18	MAPLPH910E	70	MA-QP400-12	39
MA-HWG02	18	MALS-320A	69	MA-MT62	40	MA-NW1126	18	MA-PLT11	47	MA-QP400-G	39
MA-HWG05	18	MALS-410A	69	MA-MY69	3	MA-NW1126-C	18	MA-PLT11-K	47	MA-QT1515	73
MA-IC13	56	MALS-50E1	69	MA-N12	62	MA-NW1128	18	MA-PLT14	47	MA-QT1520	73
MA-IC15	56	MALS-55A	69	MA-N14	62	MA-NW1128-C	18	MA-PLT14-K	47	MA-QT2020	73
MA-IM24A	11	MALS-55A-P	69	MA-N38	62	MA-NW11410	18	MA-PLT4	47	MA-QT2030	73
MA-IM30A	11	MALS-95E1	69	MA-N516	62	MA-NW1146	18	MA-PLT4-K	47	MA-QT3030	73
MA-IMK1	62	MA-MAG1	36	MA-NAT18-5	17	MA-NW1146-C	18	MA-PLT7	47	MA-R134ASC	60
MA-IR9PEN	13	MA-MC123	43	MA-NAT316	17	MA-NW1148	18	MA-PLT7-K	47	MA-R402ASC	60
MA-J1500	18	MA-MC22C	22	MA-NAT316-5	17	MA-NW1148-C	18	MA-PS120	15	MA-R407CSC	60
MA-J2000	18	MA-MC23C	22	MA-ND14516	39	MA-NW1210	18	MA-PS220	15	MA-RECTSC	60
MA-J3000	18	MA-MC42C	22	MA-NDK16	38	MA-NW124	18	MA-PT110C	15	MA-REF401C	61
MA-J4000	18	MA-MC43C	22	MA-NON1	19	MA-NW124-C	18	MA-PT134160	15	MA-REF401F	61
MA-K1	18	MA-MDL-1	20	MA-NON10	19	MA-NW126	18	MA-PT134220	15	MA-REF700	61
MA-K112	18	MA-MDL-1/2	20	MA-NON100	19	MA-NW126-C	18	MA-PT138160	15	MA-RPW20	34
MA-K114	18	MA-MDL-1/4	20	MA-NON15	19	MA-NW16	18	MA-PT138220	15	MA-RRWBK	38
MA-K12	18	MA-MDL-10	20	MA-NON150	19	MA-NW16-C	18	MA-PT14	17	MA-RS121	36
MA-K2	18	MA-MDL-11/4	20	MA-NON175	19	MA-NW344	18	MA-PT160	15	MA-RS300	68
MA-K212	18	MA-MDL-15	20	MA-NON20	19	MA-NW344-C	18	MA-PT160B	15	MA-RT1	16
MA-K3	18	MA-MDL-2	20	MA-NON200	19	MA-NW346	18	MA-PT220	15	MA-RT330	14
MA-K34	18	MA-MDL-20	20	MA-NON25	19	MA-NW346-C	18	MA-PT220B	15	MA-RT335	14
MA-KC710	40	MA-MDL2-1/2	20	MA-NON3	19	MA-OCPI	44	MA-PT38	17	MA-RT340	14
MA-KN15	40	MA-MDL-25	20	MA-NON30	19	MA-OVN1	16	MA-PT550	15	MA-RT340LS	14
MA-KN74HD	40	MA-MDL-3	20	MA-NON35	19	MA-P4012W	21	MA-PT70C	15	MA-RT343	14
MA-KVS007A	40	MA-MDL-3.2	20	MA-NON40	19	MA-P4034W	21	MA-PVC27	41	MA-RT8100	16

PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #
MA-RT8101	16	MA-SDF1SC	60	MA-SR134A-50	60	MA-SUT45	16	MA-THHNS-12R	58	MA-TX482	45
MA-RT819	15	MASF-105	69	MA-SR22	60	MA-SVOM18	26	MA-THHNS-12W	58	MA-TX501	45
MA-RT900A	14	MASF-105-P	69	MA-SR22-50	60	MA-SW70C-6	68	MA-THHNS-14B	58	MA-TX502	45
MA-S1A	19	MASF-135	69	MA-SR402A-50	60	MA-T1005	27	MA-THHNS-14G	58	MA-TX775	45
MA-S10A	19	MASF-135-P	69	MA-SR402B	60	MA-T1007	27	MA-THHNS-14R	58	MA-TX779	45
MA-S11/4A	19	MASF-175	69	MA-SR402B-50	60	MA-T1010	27	MA-THHNS-14W	58	MA-UO65P010	21
MA-S12A	19	MASF-175-P	69	MA-SR404A	60	MA-T1057	27	MA-TL15A	19	MA-V1	26
MA-S14	62	MASF-235	69	MA-SR404A-50	60	MA-T10A	19	MA-TL20A	19	MA-V2	26
MA-S144	68	MASF-235-P	69	MA-SR406A	60	MA-T11/4A	19	MA-TL25A	19	MA-VID-1	7
MA-S15A	19	MASF-305	69	MA-SR406A-50	60	MA-T12A	19	MA-TL30A	19	MA-VID-2	7
MA-S16A	19	MASF-305-P	69	MA-SR407C	60	MA-T15A	19	MATM-100	70	MA-VIMK2	62
MA-S20A	19	MA-SH1500	18	MA-SR407C-50	60	MA-T16A	19	MATM-100-P	70	MA-VIMK3	62
MA-S21/2A	19	MA-SH2000	18	MA-SR408A	60	MA-T1A	19	MATM-135	70	MA-VTC1	35
MA-S25	41	MA-SH3000	18	MA-SR408A-50	60	MA-T20A	19	MATM-135-P	70	MA-W10A	19
MA-S25A	19	MA-SH4000	18	MA-SR409A	60	MA-T21/2A	19	MATM-180	70	MA-W12	62
MA-S25RB	41	MA-SHCFC123	60	MA-SR409A-50	60	MA-T25A	19	MATM-180-P	70	MA-W14	62
MA-S2A	19	MA-SHCFC123-50	60	MA-SR410A	60	MA-T2A	19	MATM-250	70	MA-W38	62
MA-S30	68	MA-SL15A	19	MA-SR410A-50	60	MA-T30A	19	MATM-250-P	70	MA-W3A	19
MA-S3003	10	MA-SL20A	19	MA-SR417A	60	MA-T32A	19	MA-TN5044	29	MA-W455	68
MA-S31A	19	MA-SL25A	19	MA-SR417A-50	60	MA-T4A	19	MA-TN5044-100	29	MA-W516	62
MA-S32A	19	MA-SL30A	19	MA-SR421A	60	MA-T5A	19	MA-TN5044-25	29	MA-W5A	19
MA-S38	62	MA-SM6	11	MA-SR421A-50	60	MA-T61/4A	19	MA-TN5044-50	29	MA-W6A	19
MA-S4A	19	MA-SM7	11	MA-SR422B	60	MA-T7A	19	MA-TN5066	29	MA-W8A	19
MA-S5A	19	MA-SM8	11	MA-SR422B-50	60	MA-T8A	19	MA-TN5066-100	29	MA-WHP22	61
MA-S60	68	MA-SMO1	60	MA-SR422D	60	MA-TBS31	36	MA-TN5066-25	29	MA-WHP24	61
MA-S61/4A	19	MA-SMO1-50	60	MA-SR422D-50	60	MA-THHN10B	58	MA-TN5066-50	29	MA-WHP26	61
MA-S6A	19	MA-SNAT316-5	17	MA-SR438A	60	MA-THHN10G	58	MA-TN5088	29	MA-WHP28	61
MA-S8A	19	MA-SND80	8	MA-SR438A-50	60	MA-THHN10R	58	MA-TN5088-100	29	MA-WHP32	61
MA-SAB1	60	MA-SOC19	38	MA-SR500	60	MA-THHN10W	58	MA-TN5088-25	29	MA-WL10C	34
MA-SAB1-50	60	MA-SOC19-MET	38	MA-SR500-50	60	MA-THHN12B	58	MA-TN5088-50	29	MA-WP1	61
MA-SB35	65	MA-SP41501	68	MA-SR502	60	MA-THHN12G	58	MA-TN51212	29	MA-WR6	37
MA-SC10	20	MA-SP44	68	MA-SR502-50	60	MA-THHN12R	58	MA-TN51212-100	29	MA-WR8	37
MA-SC1200CF	44	MA-SP45	68	MA-SR507	60	MA-THHN12W	58	MA-TN51212-25	29	MA-WR10	37
MA-SC15	20	MA-SP46	68	MA-SR507-50	60	MA-THHN14B	58	MA-TN51212-50	29	MA-WR12	37
MA-SC150CF	44	MA-SPA1	60	MA-SRT14-5	17	MA-THHN14G	58	MA-TR12	62	MA-WR681012	37
MA-SC20	20	MA-SPA1-50	60	MA-SRT18-5	17	MA-THHN14R	58	MA-TR14	62	MA-WSFD30A	21
MA-SC25	20	MA-SPO1	60	MA-SRT316-5	17	MA-THHN14W	58	MA-TR38	62	MA-WSFD60A	21
MA-SC30	20	MA-SPO1-50	60	MA-SRU	20	MA-THHN8B	58	MA-TR516	62	MA-WSNFD60A	21
MA-SC35	20	MA-SR11	60	MA-SRY	20	MA-THHN8G	58	MA-TX100	45	MA-WTJ1	48
MA-SC40	20	MA-SR11-50	60	MA-SSC-CK	63	MA-THHN8R	58	MA-TX202	45	MAXICAP3R	59
MA-SC45	20	MA-SR113	60	MA-SSG-CK	63	MA-THHN8W	58	MA-TX205	45	MAXICAP5R	59
MA-SC50	20	MA-SR113-50	60	MA-SSU	20	MA-THHNS-10B	58	MA-TX402	45	MAXICAP7R	59
MA-SC5000CF	44	MA-SR114	60	MA-SSW	20	MA-THHNS-10G	58	MA-TX403	45	MA-XL80-25	68
MA-SC60	20	MA-SR114-50	60	MA-SSW-CK	63	MA-THHNS-10R	58	MA-TX404	45	MA-XL80-5	68
MA-SC600CF	44	MA-SR12	60	MA-SSX	20	MA-THHNS-10W	58	MA-TX405	45	MA-XP5	21
MA-SDB2	36	MA-SR12-50	60	MA-SSY	20	MA-THHNS-12B	58	MA-TX406	45	MA-XP6	21
MA-SDB8	36	MA-SR134A	60	MA-ST200	15	MA-THHNS-12G	58	MA-TX407	45	MA-XP8	21



**WARRANTY** - All products sold are warranted by MA-Line Division/Monti & Associates Inc. (Hereinafter MA-Line/Monti) only to Purchaser for resale or for use in business or original equipment manufacture, against defects in workmanship or materials under normal use for one year after date of purchase, except where the manufacturer's guarantee is for a shorter period, or unless otherwise stated. MA-Line/Monti's only obligation and Purchaser's only remedy is to refund the purchase price. All other warranties express or implied, including but not limited to the implied warranties of merchantability and fitness for a particular purpose are specifically disclaimed. No warranty or affirmation of fact, express or implied, other than as set forth herein is made or authorized by MA-Line/Monti. MA-Line/Monti shall not be responsible for consequential, incidental, special, exemplary, or punitive damages. MA-Line/Monti's liability in all circumstances shall not exceed the purchase price paid for the product that give rise to any liability. **MA-Line/Monti disclaims any liability for product claims that are due to product misuse, improper product selection, or misapplication.** **Any product description does not express or imply a warranty that the products are merchantable or fit for a particular purpose.** Illustrations and descriptions in this catalog are for the sole purpose of identification, and do not express or imply a warranty that the products are merchantable for a particular purpose, or that the products will conform to the illustrations or descriptions. MA-Line/Monti cannot be held responsible for typographical or photographic errors. MA-Line/Monti reserves the right to change the design, or materials of its products without notification. **MA-Line/Monti specifically disclaims any warranty to cover replacement labor costs, or any cost claim incidental to the defective product, replacement, or reinstallation, or field repair expenses.** Different localities, states and nations have different codes and regulations governing sales, construction, installation, and or use of products for certain purposes. While the MA-Line/Monti attempts to assure that its products are in compliance with such codes, it cannot be responsible for how the product is installed or used. Before purchasing the product, it is the purchaser's responsibility to review the product application, and national and local code regulations, and be certain that the product, installation, and use of the product will comply with them.

**WARNING:** ALL MA-LINE PRODUCTS ARE FOR LICENSED AND PROFESSIONAL TRADESPEOPLE ONLY.

USE EXTREME CARE WHEN CHECKING ELECTRICAL CIRCUITS TO AVOID ELECTRICAL SHOCK. DO NOT APPLY MORE THAN THE RATED VOLTAGE AS MARKED ON THE PRODUCT. USE PROPER PROTECTIVE EQUIPMENT AS REQUIRED. ANYONE USING THIS PRODUCT SHOULD BE KNOWLEDGEABLE AND TRAINED ABOUT THE RISKS INVOLVED WITH MEASURING ELECTRICAL CIRCUITS. OUR METERS ARE DESIGNED FOR TRADE PROFESSIONALS WHO ARE FAMILIAR WITH THE REQUIRED SAFETY PROCEDURES AND THE HAZARDS OF THEIR TRADE.



**CUSTOMER SERVICE E-MAIL:**  
[kjohnson@ma-line.com](mailto:kjohnson@ma-line.com)  
[bcarlstrand@ma-line.com](mailto:bcarlstrand@ma-line.com)  
[bsullivan@ma-line.com](mailto:bsullivan@ma-line.com)

**TOLL FREE CUSTOMER SERVICE:**  
 PHONE: 1-800-956-8220  
 FAX: 1-800-336-8291  
**INT'L CUSTOMER SERVICE:**  
 PHONE: 001(847) 956-8200  
 FAX: 001(847) 956-8237