

EDITION 2014

**MA-LINE**  
MONTI AND ASSOCIATES, INC.

**SPECIALTY PRODUCTS FOR THE HVAC & R INDUSTRY**

**FULL-LINE  
PRODUCT  
CATALOG**

**2014**



Monti & Associates established the MA-Line to provide access to a range of specialized products for customers in the HVAC/R industry. Family-owned and operated since 1965, Monti & Associates prides itself on maintaining the highest level of customer service.

The MA-Line and Monti & Associates are members of the RSES, HARDI, and NAPSA. Along with the MA-Line, Monti & Associates acts as a regional and national representative for many other manufacturers of specialized products.



**MA-LINE**

**SPECIALTY PRODUCTS FOR THE HVAC & R INDUSTRY**

[www.ma-line.com](http://www.ma-line.com)

# DESIGN YOUR OWN RACK

Purchase **APPROVED ELIGIBLE HANGING PRODUCT** and you can request a MA-LINE Spinning Display Rack. Our Display Rack includes: a base, 4 pegboard panels, hooks, a MA-LINE sign, and re-order cards. Your commitment is simply to hang only **MA-Line Products** on the rack.

**ELIGIBLE HANGING PRODUCT** includes MA-LINE products that are designed to hang on the MA-LINE Rack. MA-Line products that do **not** hang on the rack would not count toward the requirement. For example: Inspection Mirrors are eligible but Clear Vinyl Tubing is not packaged to hang therefore is **not** eligible toward the requirement. **CALL US TODAY AND ASK FOR DETAILS!**

## ASSORTED METERS FOR ALL PURPOSES



MA-600CF



MA-12818



MA-33C

## THERMOMETERS ASSORTED TYPES AVAILABLE

DIAL DIGITAL



MA-RT819



MA-RT900



MA-PDT392B

## SERVICE TOOLS



MA-QP400

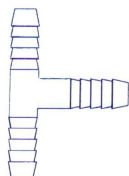


MA-49317



MA-FB2

## VARIETY OF FITTINGS



NYLON FITTINGS  
ELBOWS  
ADAPTORS  
TEES  
BUSHINGS



AF1200



KNIVES



TEST LEADS



WIRE TIES



WIRE CONNECTORS

R  
A  
C  
K  
  
D  
I  
M  
E  
N  
S  
I  
O  
N  
S



SPINNING DISPLAY RACK  
MA06007-1R

79"H  
X  
20"W  
X  
20"D  
APPROX.

D  
I  
M  
E  
N  
S  
I  
O  
N  
S



COUNTER DISPLAY RACK  
CR-RACK

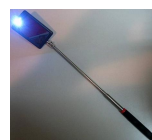
NEW

20"H  
X  
24"W  
X  
9"D  
APPROX.

## INSPECTION MIRRORS VARIETY OF SHAPE & SIZES AVAILABLE



MA-149



MA-IM24



MA-142A

## FLASHLIGHTS HEADLAMPS & WORKLIGHTS ALSO AVAILABLE



MA-AP3172



MA-0620

## ASSORTED TERMINALS

SOLDERLESS HI-TEMP



MA02726-1

RINGS



MA02825-1



MA02823-1

QUICK DISCONNECTS

INSULATED NON-INSULATED



MA02773-1

SPADES

## WIRE TIES/ WIRE CONNECTORS (ASSORTED SIZES AVAILABLE)



**MA-DM1**  
**DIGITAL MULTI-METER**  
FUNCTIONS:  
 DCV, ACV, DCA, OHM, DIODE TEST, &  
 TRANSISTOR TEST

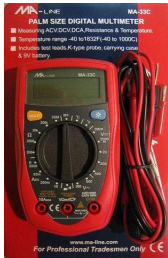
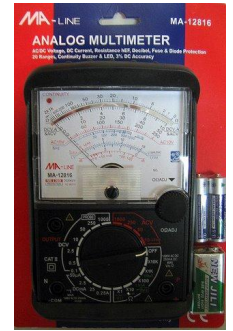
**MA-DMT3**  
**DIGITAL MULTI-METER**  
**WITH TEMPERATURE**

TEMPERATURE RANGE:  
 -58F TO 2498F (-50C TO 1370C)  
FUNCTIONS:  
 DCV, ACV, DCA, OHM, TEMPERATURE,  
 TEST SIGNAL,  
 & AUDIBLE CONTINUITY

**MA-12814**  
**ANALOG MULTI-METER**  
 UNIT SIZE:  
 3-1/2" X 2-1/4"  
FUNCTIONS :  
 DCV, ACV, DC CURRENT & OHM

**MA-12816A**  
**ANALOG MULTI-METER**  
**WITH LARGE DISPLAY**

UNIT SIZE:  
 5-1/2" X 3-3/4"  
FUNCTIONS:  
 DCV, ACV, DC CURRENT, RESISTANCE,  
 DECIBEL AC, ICEO, HFE & DIODE

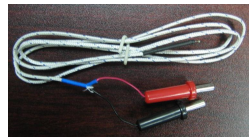


**MA-33C**  
**PALM SIZE DIGITAL**  
**MULTI-METER**  
TEMPERATURE RANGE :  
 -40F TO 1832F (-40C TO 1000C)

FUNCTIONS:  
 DCV, ACV,  
 DC CURRENT,  
 TEMPERATURE  
 & RESISTANCE



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



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



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



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



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



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



**MA-MY69**  
**AUTO RANGING**  
**DIGITAL MULTI - METER**  
TEMPERATURE RANGE :  
 -4F TO 1400F (-20C TO 750C)

FUNCTIONS:  
 ACV, DCV, DCA, ACA,  
 RESISTANCE,  
 CAPACITANCE, FREQUENCY,  
 DUTY CYCLE, TEMPERATURE,  
 TRANSISTOR TEST, DIODE TEST  
 & CONTINUITY BUZZER



**MA-12817B**  
**DIGITAL**  
**MULTI-METER**  
**WITH TEMPERATURE**

TEMPERATURE  
RANGE:  
 -40F TO 1832F  
 (-40C TO 1000C)

FUNCTIONS:  
 DCV, ACV  
 DC/AC CURRENT,  
 CAPACITANCE,  
 RESISTANCE  
 & TEMPERATURE

INCLUDES MECHANICAL DOORS  
 TO PREVENT WRONG HOOK-UP

FUNCTIONS:  
 DCV, ACV  
 DC/AC CURRENT,  
 CAPACITANCE,  
 RESISTANCE  
 & TEMPERATURE

INCLUDES MECHANICAL DOORS  
 TO PREVENT WRONG HOOK-UP



**MA-12818**  
**DIGITAL MULTI-METER**  
**WITH TEMPERATURE**

TEMPERATURE  
RANGE:  
 -20F TO 1832F  
 (-29C TO 1000C)



**MA-12812**  
**AUTO-RANGING**  
**MULTI-METER**

TEMPERATURE RANGE:  
-4F TO 1400F (-20C TO 750C)

**FUNCTIONS:**  
DCV, ACV, DC/AC CURRENT,  
CAPACITANCE, RESISTANCE, FREQUENCY,  
DUTY CYCLE, TEMPERATURE,  
TRANSISTOR TEST & CONTINUITY BUZZER

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

TEMPERATURE RANGE:  
-58F TO 1832F (-50C TO 1000C)

**FUNCTIONS:**  
DCV, ACV, DC/AC CURRENT,  
CAPACITANCE, RESISTANCE, FREQUENCY,  
DUTY CYCLE, TEMPERATURE,  
CONTINUITY TEST & DIODE CHECK



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

TEMPERATURE RANGE:  
-58F TO 1832F (-50C TO 1000C)

**FUNCTIONS:**  
DCV, ACV, DC/AC CURRENT,  
CAPACITANCE, RESISTANCE, FREQUENCY,  
DUTY CYCLE, TEMPERATURE,  
CONTINUITY TEST & DIODE CHECK

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

**FUNCTIONS:**  
DCV, ACV, CAPACITANCE,  
RESISTANCE & FREQUENCY



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

**MA-12823**  
**ANALOG CLAMP-ON**  
**METER**  
**WITH TEMPERATURE**  
TEMPERATURE RANGE:  
-4F TO 300F (-20C TO 150C)

**FUNCTIONS:**  
DCV, ACV, A/C CURRENT,  
RESISTANCE & TEMPERATURE



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

TEMPERATURE RANGE:  
-4F TO 2498F (-20C TO 1370C)

**FUNCTIONS:**  
DCV, ACV, DC/AC CURRENT,  
RESISTANCE & TEMPERATURE

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

TEMPERATURE RANGE:  
-38F TO 1750F (-38C TO 950C)

**FUNCTIONS:**  
DCV, ACV, AC CURRENT,  
RESISTANCE, CONTINUITY & DIODE  
TEST & TEMPERATURE



**MA-12353**  
**AC CURRENT**  
**CLAMP-ON**  
**ADAPTOR**

**MA-12358**  
**AC/DC CURRENT**  
**CLAMP-ON**  
**ADAPTOR**





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

**FUNCTIONS:**  
DCV/ACV,  
D/C, A/C CURRENT  
& RESISTANCE

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

**WITH TEMPERATURE**  
TEMPERATURE RANGE:  
32F TO 752F (0C TO 400C)

**FUNCTIONS:**  
DCV, ACV, AC CURRENT,  
RESISTANCE, FREQUENCY, CAPACITANCE & TEMPERATURE



**MA-12826A**  
**HVAC DIGITAL CLAMP-ON METER**  
FLAME SAFE GUARD CIRCUITS  
WITH MAGNET

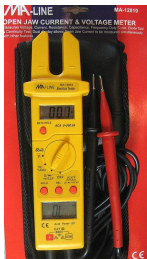
TEMPERATURE RANGE:  
-58F TO 2372F (-50C TO 1300C)

**FUNCTIONS:**  
DCV, ACV, DC/AC CURRENT,  
RESISTANCE, FREQUENCY, CAPACITANCE,  
CONTINUITY, DIODE TEST & TEMPERATURE

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

TEMPERATURE RANGE:  
-58F TO 1832F (-50C TO 1000C)

**FUNCTIONS:**  
DCV, ACV, DC/AC CURRENT, OHM,  
FREQUENCY, CAPACITANCE & TEMPERATURE



**MA-12819**  
**OPEN JAW CURRENT**  
**AND VOLTAGE METER**

DC/AC VOLTAGE & AC CURRENT

**FUNCTIONS:**  
DCV, ACV, AC CURRENT,  
RESISTANCE, FREQUENCY, CAPACITANCE,  
DUTY CYCLE, CONTINUITY, DIODE TEST

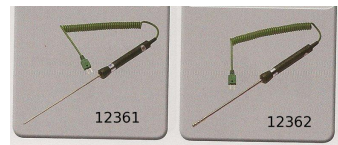
**MA-12356**  
**CLAMP-ON PROBE**  
**K-TYPE**  
**THERMOMETER**

JAW OPENING 1-1/4"  
TEMPERATURE RANGE:  
-40F TO 1100F (-40C TO 590C)



**MA-12355A**  
**CLAMP-ON PROBE**  
**K-TYPE THERMOMETER**

JAW OPENING 1-3/8"  
TEMPERATURE RANGE:  
-40F TO 212F (-40C TO 100C)



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

STAINLESS STEEL PROBES FOR  
MA-DMT123  
TEMPERATURE RANGE: -58F TO 1472F (-50C TO 800C)



**MA-12357A**  
**STRAP-ON PROBE**  
**K-TYPE THERMOMETER**

TEMPERATURE RANGE:  
-4F TO 300F  
(-20C TO 149C)

**MA-16544**  
**CLAMP-ON**  
**VOLTAGE AND**  
**CURRENT**  
**DATA LOGGER**



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

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





**INCLUDES:**  
**MA-AN84A**  
 MINI ANEMOMETER  
**MA-12838A**  
 MINI DUAL DIFFERENTIAL  
 MANOMETER  
**MA-16531B**  
 DIGITAL PSYCHROMETER  
 WITH WET BULB & DEW  
 POINT

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

**MA-12842**  
**PHOTO**  
**NON-CONTACT TACHOMETER**  
**MA-12844**  
**TAPE STRIPS**



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

LEVEL RANGE:  
 LOA = 35-100dB



**MA-12838A**  
**MINI DIGITAL DUAL**  
**DIFFERENTIAL MANOMETER**  
**WITH MAGNET**  
 -55.40 to +55.40 in. of water column  
**FUNCTIONS:**  
 inH2O, psi, Mbar, kPa, inHg, mmHg, ozin<sup>2</sup>, FtH2O,  
 cmH2o, Kgcm & Bar

**MA-12835A**  
**DIGITAL DUAL DIFFERENTIAL**  
**MANOMETER WITH MAGNET**  
 -55.40 to +55.40 in. of water column  
**FUNCTIONS:**  
 inH2O, psi, Mbar, kPa, inHg, mmHg, ozin<sup>2</sup>, FtH2O,  
 cmH2o, Kgcm & Bar



**MA-AN84**  
**DIGITAL MINI**  
**ANEMOMETER (CFM)**  
**FUNCTIONS:**  
 CFM, FT/MIN, M/S, KM/H, MPH, KNOTS

**MA-12843A**  
**DIGITAL ANEMOMETER**  
**(CFM) WITH**  
**FLEXIBLE NECK**  
**FUNCTIONS:**  
 CFM, FT/MIN, M/S, KM/H, MPH, KNOTS



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

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



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



**MA-12821**  
**WATT METER**  
 FOR SINGLE PHASE APPLICATIONS ONLY



**MA-12830A**  
**CARBON MONOXIDE**  
**DETECTOR**  
**MA-12830A-S**  
**SENSOR ONLY**

**MA-12815A**  
**DIGITAL CAPACITOR**  
**TESTER**





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

**MA-MMD3E**  
**LCD MOISTURE**  
**INDICATOR FOR**  
**WOOD, DRYWALL OR**  
**CONCRETE**



**MA-NG2000-B**  
**COMBUSTIBLE**  
**GAS INDICATOR**  
NATURAL GAS (METHANE)  
LPG (PROPANE, BUTANE)

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



**VIDEO BORESCOPE**  
WITH CASE

**MA-VID-1**  
3' TUBE LENGTH

**MA-VID-2**  
3' TUBE LENGTH PLUS  
10' EXTENSION

**MA-IM12**  
**MIRROR WITH**  
**SWIVEL HEAD**  
**AND LIGHT**



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

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

**MA-IM24**  
**RECTANGLE**  
**TELESCOPIC**  
**INSPECTION**  
**MIRROR WITH 2 LEDS**



**TELESCOPIC INSPECTION MIRRORS**



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

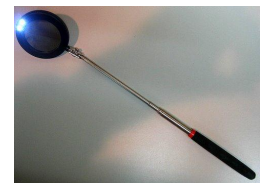


MA-157A



MA-149

**MA-IM30**  
**ROUND TELESCOPIC**  
**INSPECTION MIRROR**  
**WITH 2 LEDS**



- MA-142A**  
2-1/4" ROUND MIRROR EXTENDS TO 17"
- MA-142MA**  
2-1/4" ROUND MIRROR MAGNIFIED INSPECTION MIRROR EXTENDS TO 12"
- MA-143A**  
1-1/4" ROUND MIRROR EXTENDS TO 25"
- MA-143M**  
1-1/4" ROUND MIRROR MAGNIFIED INSPECTION MIRROR EXTENDS TO 17.5"
- MA-149**  
2-1/8" X 3-1/2" RECTANGULAR MIRROR EXTENDS TO 17"
- MA-157A**  
1" X 2" OVAL MIRROR EXTENDS TO 25"

**REPLACEMENT GLASS**  
\*\*MIRROR ONLY\*\*

- MA-142-1**  
2-1/4" ROUND
- MA-149-1**  
2-1/8" X 3-1/2" RECTANGLE
- MA-157-1**  
1" X 2" OVAL

**STAINLESS STEEL TELESCOPIC MIRRORS**  
EXTENDS TO 27"

- MA-SM6**  
1-1/4" X 2" RECTANGLE
- MA-SM7**  
2" X 3-3/4" RECTANGLE



- MA-SM8**  
3-3/4" ROUND







**MA-16509B**  
**INFRARED THERMOMETER**  
10:1 DISTANCE TO SPOT RATIO

TEMPERATURE RANGE:  
-58F TO 1022F (-50C TO 550C)



**MA-16551**  
**INFRARED THERMOMETER**  
50:1 DISTANCE TO SPOT RATIO

TEMPERATURE RANGE:  
-50F TO 1900F (-45C TO 1035C)



**MA-16505A**  
**INFRARED THERMOMETER**  
13:1 DISTANCE TO SPOT RATIO

TEMPERATURE RANGE:  
-58F TO 1472F (-50C TO 800C)



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

12:1 DISTANCE TO SPOT RATIO  
TEMPERATURE RANGE:  
-58F TO 1202F (-50C TO 650C)



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

8:1 DISTANCE TO SPOT RATIO  
TEMPERATURE RANGE:  
-58F TO 1112F (-50C TO 600C)



**HIGH & LOW TEMPERATURE**  
**INFRARED THERMOMETER**  
12:1 DISTANCE TO SPOT RATIO

**MA-16501**  
TEMP: -58F TO 1832F (-50C TO 1000C)  
**MA-16513**  
TEMP: -58F TO 932F (-50C TO 500C)



**MA-IRT203B**  
**SHIRT POCKET LASER THERMOMETER**  
6:1 DISTANCE TO SPOT RATIO

TEMPERATURE RANGE:  
-58F TO 518F (-50C TO 270C)

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

**MA-16531B**

TEMPERATURE RANGE:  
-22F TO 212F (-30C TO 100C)  
HUMIDITY: 0 TO 100% RH  
DEW POINT TEMP:  
-22F TO 212F (-30C TO 100C)  
WET BULB TEMP:  
32F TO 176F (0 TO 80C)



**MA-16533**  
**DIAGNOSTIC PSYCHROMETER**  
TARGETS SUPER HEAT AND  
EVAPORATOR EXIT  
TEMPERATURE

TEMPERATURE RANGE:  
-30F TO 199F (-30C TO 100C)  
HUMIDITY: 0 TO 100% RH  
DEW POINT TEMP: -22F TO 199F (-30C TO 100C)  
WET BULB TEMP: 32F TO 176F (0 TO 80C)

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

TEMPERATURE RANGE:  
-58F TO 392F (-50C TO 200C)



**MA-RT900**  
**HAND HELD DIGITAL**  
**THERMOMETER**

TEMPERATURE RANGE:  
-58F TO 392F (-50C TO 200C)



**MA-ST200**  
**PIPING THERMOMETER**

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



**MA-12834**  
**DIGITAL REFRIGERANT**  
**PRESSURE AND**  
**TEMPERATURE CHART**  
FOR 61 REFRIGERANTS



**MA-12836**  
**INFRARED THERMOMETER &**  
**REFRIGERANT**  
**PRESSURE/TEMPERATURE**

TEMPERATURE RANGE:  
-22F TO 932F (-30C TO 500C)  
13:1 DISTANCE TO SPOT RATIO





**MA-16542**  
**TEMPERATURE AND HUMIDITY DATA LOGGER WITH DISPLAY**

TEMPERATURE RANGE:  
 -40F TO 158F (-40C TO 70C)  
 HUMIDITY: 0 TO 100% RH

**MA-16540**  
**TEMPERATURE AND HUMIDITY DATA LOGGER**

TEMPERATURE RANGE:  
 -40F TO 158F (-40C TO 70C)  
 HUMIDITY: 0 TO 100% RH

**MA-16541**  
**SOFTWARE**



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

TEMPERATURE RANGE:  
 -328F TO 2498F (-200C TO 1370C)

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

TEMPERATURE RANGE:  
 -4F TO 140F (-20C TO 60C)  
 HUMIDITY: 0 TO 100% RH



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

INCLUDES:  
 1) MA-DMT123  
 2) K-TYPE PROBES  
 2) MA-12355A WITH 72" LEADS

**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



**MA-RT818**  
**BIG DIGIT POCKET THERMOMETER**

TEMPERATURE RANGE:  
 -40F TO 392F (-40C TO 200C)

**POCKET STICK THERMOMETER**



**MA-PS120** -40F TO 160F (12/CTN)

**MA-PS220** 0F TO 220F (12/CTN)



**MA-PDT392B**  
**POCKET DIGITAL THERMOMETER**

TEMPERATURE RANGE:  
 -40F TO 392F (-40C TO 200C)

**MA-RT819**  
**BIG DIGIT HYGRO THERMOMETER**

TEMP. RANGE: 32F TO 122F (0 TO 50C)  
 HUMIDITY: 20% TO 95% RH



**MA-RT330**  
**DIGITAL THERMOMETER**

ANTI-ROLLING DESIGN  
 TEMPERATURE RANGE:  
 -58F TO 302F (-50C TO 150C)

**MA-RT335**  
**DIGITAL THERMOMETER**

OVAL DESIGN  
 TEMPERATURE RANGE:  
 -58F TO 392F (-53C TO 200C)

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

TEMPERATURE RANGE:  
 -58F TO 302F (-50C TO 150C)

**MA-RT340** WITH 5" STEM

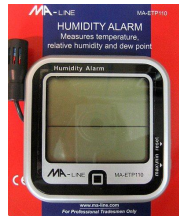
**MA-RT340LS** WITH 8" STEM





**MA-1660  
FREEZER  
ALERT**

FOR FREEZERS  
AND  
REFRIGERATORS



**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)



**MA-1665B  
FLOOD  
ALERT**



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

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

**INDOOR/OUTDOOR  
THERMOMETER WITH CLOCK**

**MA-RT1  
REFRIG./FREEZER THERM.**

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 THERMOMETER**

**MA-1001NS  
BATTERY THERMOMETER**

**MA-HRFT1  
HORIZONTAL  
REFRIG./FREEZER THERM.**

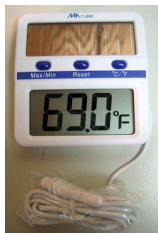
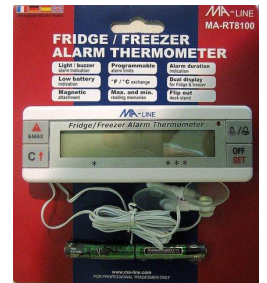
TEMPERATURE RANGE:  
-40F TO 80F (-40C TO 30C)



**HORIZONTAL THERMOMETERS**  
TEMPERATURE RANGE: -58F TO 302F (50C TO 150C)

**MA-RT8100  
FRIDGE/FREEZER  
ALARM THERMOMETER**

TEMPERATURE RANGE:  
-40F TO 158F (-40C TO 70C)



**MA-RT8101  
SOLAR POWERED DIGITAL  
THERMOMETER**  
INDOOR TEMP: 32F TO 122F (0 TO 50C)  
OUTDOOR TEMP: -58F TO 158F (-50C TO 70C)

**REMOTE  
READING VAPOR  
TENSION  
THERMOMETERS**

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



**REMOTE READING  
SOLAR  
THERMOMETERS**

STAINLESS STEEL  
TEMPERATURE RANGE:  
-58F TO 302F (-50C TO 150C)

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

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



**CLEAR VINYL TUBING**

- |                                    |                                  |
|------------------------------------|----------------------------------|
| <b>MA-CVT316</b><br>3/16"ID X 100' | <b>MA-CVT58</b><br>5/8"ID X 100' |
| <b>MA-CVT14</b><br>1/4"ID X 100'   | <b>MA-CVT34</b><br>3/4"ID X 100' |
| <b>MA-CVT38</b><br>3/8"ID X 100'   | <b>MA-CVT78</b><br>7/8"ID X 50'  |
| <b>MA-CVT12</b><br>1/2"ID X 100'   | <b>MA-CVT1</b><br>1"ID X 50'     |

**POLYETHYLENE TUBING**

- |                                 |                                   |
|---------------------------------|-----------------------------------|
| <b>MA-PT14</b><br>1/4"OD X 100' | <b>MA-PT516</b><br>5/16"OD X 100' |
| <b>MA-PT38</b><br>3/8"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**

- |                       |                      |
|-----------------------|----------------------|
| <b>181SP-02</b> 1/8"  | <b>181SP-04</b> 1/4" |
| <b>181SP-03</b> 3/16" | <b>181SP-06</b> 3/8" |



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

**ALUMINUM TUBING 5' KIT**  
INCLUDES FITTINGS

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



**50' COILS ALUMINUM TUBING**  
WITHOUT FITTINGS

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

ASTM: B483  
ALLOY: 3003  
WALL THICKNESS: .035

**RED SILICONE RUBBER TUBING**

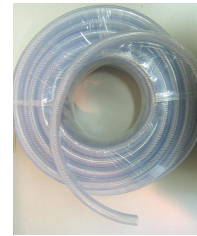


- MA-SRT18-5** 1/8"ID X 5/16"OD  
**MA-SRT316-5** 3/16"ID X 5/16"OD  
**MA-SRT14-5** 1/4"ID X 3/8"OD

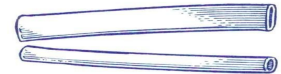
5' LENGTH

**HEAVY DUTY BRAIDED TUBING**

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



**HEAT SHRINK TUBING**



- 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) **MA03391-1** 1/2" (5/PK)  
**MA03385-1** 3/16" (8/PK) **MA03393-1** 3/4" (4/PK)  
**MA03387-1** 1/4" (7/PK) **MA03394-1** 1" (3/PK)  
**MA03389-1** 3/8" (10/PK) \*\* TUBING IS 4" IN LENGTH

**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'



**FLEXOGEN GARDEN HOSE**

- MA-GH25**  
5/8"ID GREEN 25' LONG  
**MA-GH50**  
5/8"ID GREEN 50' LONG



**INSULATED SPRAY NOZZLE**  
6 SPRAY PATTERNS

- MA-572A**  
SOAKER, SHOWER, CONE, FLAT, MIST AND JET  
**MA-W455**  
HOSE WASHERS (10/PK)



**COMBO-HEX CLAMP**

3/8" HEX HEAD COLLARED SCREW  
ZINC-PLATED CARBON STEEL SCREW  
300 STAINLESS BAND & HOUSING

10/BOX 6 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 CLAMPS



COMBO CLAMPS

**MICRO GEAR HOSE CLAMP**

1/4" HEX HEAD  
ZINC-PLATED CARBON STEEL SCREW  
300 STAINLESS BAND & HOUSING  
TINY BUT TOUGH

10/BOX 6 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**

18 GAUGE

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



**PERFORATED STRAPS**

20 GAUGE

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



**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 (50/PKG)
- MA-DT114** 1-1/4" ID (50/PKG)
- MA-DT112** 1-1/2" ID (25/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-BT14** 1/4" ID (100/PKG)
- MA-BT38** 3/8" ID (100/PKG)
- MA-BT12** 1/2" ID (250/PKG)
- MA-BT34** 3/4" ID (200/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)

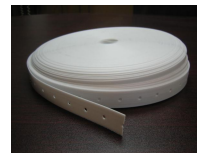
GALVANIZED



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



**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

**J-HOOKS 20 GAUGE**



25 PER BAG

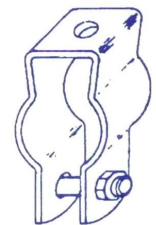
- MA-J1500** 1-1/2" DRAIN PIPE HOLDER
- MA-J2000** 2" DRAIN PIPE HOLDER
- MA-J3000** 3" DRAIN PIPE HOLDER
- MA-J4000** 4" DRAIN PIPE HOLDER
- MA-SH1500** 1-1/2" SWIVEL ADJ. HANGER
- MA-SH2000** 2" SWIVEL ADJ. HANGER
- MA-SH3000** 3" SWIVEL ADJ. HANGER
- MA-SH4000** 4" SWIVEL ADJ. HANGER

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.

**CONDUIT PIPE CLAMPS WITH BOLTS**

- MA-K12** 1/2" ID (100/PKG)
- 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)

HANGING  
CONDUIT  
OR  
IRON PIPE

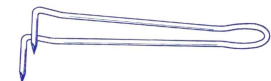


**WIRE PIPE HANGERS**

HANGING BLACK IRON PIPE

- MA-NW124** 1/2" X 4"
- MA-NW126** 1/2" X 6"
- MA-NW128** 1/2" X 8"
- MA-NW1210** 1/2" X 10"
- MA-NW344** 3/4" X 4"
- MA-NW346** 3/4" X 6"
- MA-NW348** 3/4" X 8"
- MA-NW3410** 3/4" X 10"
- MA-NW14** 1" X 4"
- MA-NW16** 1" X 6"
- MA-NW18** 1" X 8"
- MA-NW110** 1" X 10"
- MA-NW1146** 1-1/4" X 6"
- MA-NW1148** 1-1/4" X 8"
- MA-NW11410** 1-1/4" X 10"
- MA-NW1126** 1-1/2" X 6"
- MA-NW1128** 1-1/2" X 8"

9 GAUGE WIRE  
50/BOX



HANGING COPPER TUBE

- MA-NW124-C** 1/2" X 4"
- MA-NW126-C** 1/2" X 6"
- MA-NW128-C** 1/2" X 8"
- MA-NW344-C** 3/4" X 4"
- MA-NW346-C** 3/4" X 6"
- MA-NW348-C** 3/4" X 8"
- MA-NW14-C** 1" X 4"
- MA-NW16-C** 1" X 6"
- MA-NW18-C** 1" X 8"
- MA-NW1146-C** 1-1/4" X 6"
- MA-NW1148-C** 1-1/4" X 8"
- MA-NW1126-C** 1-1/2" X 6"
- MA-NW1128-C** 1-1/2" X 8"

**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

**FRNR & FRSR  
SERIES**



**ECNR & ECSR  
SERIES**



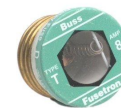
**BUSS ONE TIME FUSE  
250 VOLT**

PART#	AMP	PKG	PART#	AMP	PKG
MA-NON1	1	10	MA-NON45	45	10
MA-NON3	3	10	MA-NON50	50	10
MA-NON6	6	10	MA-NON60	60	10
MA-NON10	10	10	MA-NON70	70	5
MA-NON15	15	10	MA-NON80	80	5
MA-NON20	20	10	MA-NON100	100	5
MA-NON25	25	10	MA-NON150	150	1
MA-NON30	30	10	MA-NON175	175	1
MA-NON35	35	10	MA-NON200	200	1
MA-NON40	40	10			



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

PART#	AMP	PKG	PART#	AMP	PKG
MA-T1A	1	4	MA-T61/4A	6.25	4
MA-T11/4A	1.25	4	MA-T7A	7	4
MA-T16A	1.6	4	MA-T8A	8	4
MA-T2A	2	4	MA-T10A	10	4
MA-T21/2A	2.5	4	MA-T12A	12	4
MA-T32A	3.2	4	MA-T15A	15	4
MA-T4A	4	4	MA-T20A	20	4
MA-T5A	5	4	MA-T25A	25	4
			MA-T30A	30	4



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

PART#	AMP	PKG	PART#	AMP	PKG
MA-S1A	1	4	MA-S6A	6	4
MA-S11/4A	1.25	4	MA-S61/4A	6.25	4
MA-S16A	1.6	4	MA-S8A	8	4
MA-S2A	2	4	MA-S10A	10	4
MA-S21/2A	2.5	4	MA-S12A	12	4
MA-S32	3.2	4	MA-S15A	15	4
MA-S4A	4	4	MA-S20A	20	4
MA-S5A	5	4	MA-S25A	25	4
			MA-S31A	30	4



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

PART#	AMP	PKG	PART#	AMP	PKG
MA-SL15A	15	4	MA-TL15A	15	4
MA-SL20A	20	4	MA-TL20A	20	4
MA-SL25A	25	4	MA-TL25A	25	4
MA-SL30A	30	4	MA-TL30A	30	4



**TYPE S  
FUSE  
ADAPTOR**

PART#	AMP	PKG	PART#	AMP	PKG
MA-16SA	1.6	4	MA-30SA	30	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			

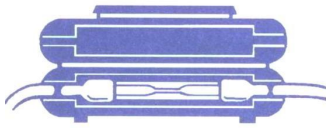


**BUSS W PLUG FUSES  
TIME DELAY, 250 VOLT**

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



**A/C METAL DISCONNECTS**  
UL & CUL LISTED

240 VAC, SINGLE PHASE, NEMA TYPE 3R, OUTDOOR ENCLOSURE



NON-FUSED

6/CASE 6 SOLD PER CASE  
**MA-NFD60A**  
60A, NON-FUSED  
**MA-FD30A**  
30A, FUSED  
**MA-FD60A**  
60A, FUSED



FUSED

**A/C DISCONNECTS WITH GFI OUTLET**

1/CASE 6 SOLD PER CASE  
**MA-UO65P010**



**3 PHASE DISCONNECTS**



240 VAC, THREE PHASE, NEMA TYPE 3R, OUTDOOR ENCLOSURE

1/CASE 6 SOLD PER CASE <b>MA-60NF3</b> 60A, NON-FUSED UL & CSL LISTED	1/CASE 6 SOLD PER CASE <b>MA-30F3</b> 30A, FUSED <b>MA-60F3</b> 60A, FUSED
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**PLASTIC A/C DISCONNECTS**

240 VAC, SINGLE PHASE, NEMA TYPE 3R, OUTDOOR ENCLOSURE

6/CASE 6 SOLD PER CASE <b>MA-PNFD60A</b> 60A, NON-FUSED UL & CSL LISTED	6/CASE 6 SOLD PER CASE <b>MA-PFD30A</b> 30A, FUSED <b>MA-PFD60A</b> 60A, FUSED
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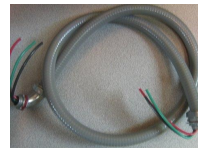
**"EXTRA-BOOST" HARD START KITS**



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

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 BTUs 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.

Voltage: 120-230 Residential/Commercial



**A/C WHIPS**

ASSEMBLED WITH UL APPROVED COMPONENTS      KIT COMES WITH 2 REDUCING WASHERS

**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



**LIQUID TIGHT FITTINGS**  
METALLIC AND NON-METALLIC



**METALLIC STRAIGHT CONNECTOR**

**MA-E50A** 1/2"  
**MA-4E50A** 1/2" (4/PKG)  
**MA-E75** 3/4"  
**MA-4E75A** 3/4" (4/PKG)  
**MA-E100** 1" (5/PKG)  
**MA-LT125** 1-1/4" (5/PKG)  
**MA-LT150** 1-1/2" (2/PKG)

**METALLIC 90 DEGREE ELBOW**

**MA-E5090A** 1/2"  
**MA-4E5090A** 1/2" (4/PKG)  
**MA-E7590** 3/4"  
**MA-4E7590A** 3/4" (4/PKG)  
**MA-E10090** 1" (5/BOX)  
**MA-E12590** 1-1/4" (2/BOX)  
**MA-E15090** 1-1/2" (2/BOX)

**NON-METALLIC STRAIGHT CONNECTOR**

**MA-LC43D** 1/2" SCREW ON  
**MA-4LC43D** 1/2" SCREW ON (4/PKG)  
**MA-LC43E** 3/4" SCREW ON  
**MA-4LC43E** 3/4" SCREW ON (4/PKG)  
**MA-NMLT50** 1/2" 2 PIECE  
**MA-4NMLT50** 1/2" 2 PIECE (4/PKG)  
**MA-NMLT75** 3/4" 2 PIECE  
**MA-4NMLT75** 3/4" 2 PIECE (4/PKG)

**NON-METALLIC 90 DEGREE ELBOW**

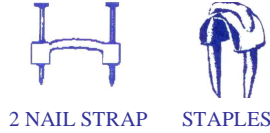
**MA-LC20D** 1/2" SCREW ON  
**MA-4LC20D** 1/2" SCREW ON (4/PKG)  
**MA-LC20E** 3/4" SCREW ON  
**MA-4LC20E** 3/4" SCREW ON (4/PKG)  
**MA-NMLT9050** 1/2" 2 PIECE  
**MA-4NMLT9050** 1/2" 2 PIECE (4/PKG)  
**MA-NMLT9075** 3/4" 2 PIECE  
**MA-4NMLT9075** 3/4" 2 PIECE (4/PKG)



**CABLE STRAPS & INSULATED STAPLES**

- 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 & UF  
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 & UF  
CABLE, OR 3 #12 UF CABLE

- MA-E27325** COPPER  
INSULATED STAPLES  
5/8" X 1/4" 25/PKG
- MA-E273-100** COPPER  
INSULATED STAPLES  
5/8" X 1/4" 100/PKG



**FITTINGS FOR BX-FLEXIBLE METAL CONDUIT**

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

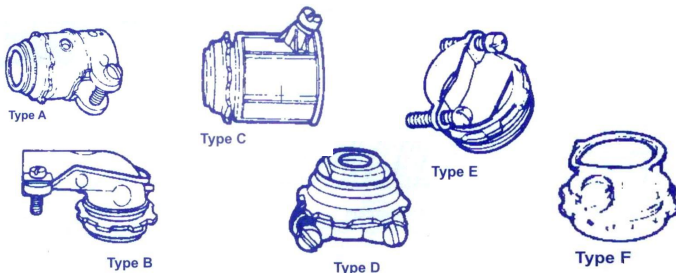
- MA-E42-1** 1/2" STRAIGHT SQUEEZE CONN.(TYPE A) 25/PKG.
- MA-E42-2** 3/4" STRAIGHT SQUEEZE CONN.(TYPE A) 25/PKG.
- MA-E42-3** 1" STRAIGHT SQUEEZE CONN.(TYPE A) 10/PKG.
- MA-E42-4** 1-1/4" STRAIGHT SQUEEZE CONN.(TYPE A) 10/PKG.
- MA-E42-5** 1-1/2" STRAIGHT SQUEEZE CONN.(TYPE A) 5/PKG.
- MA-E110** 3/8" 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) 25/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**

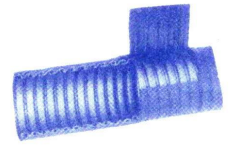
- MA-E58** 3/8" SET SCREW CONNECTOR (TYPE F) 100/PKG.
- MA-E48** 1/2" SET SCREW CONNECTOR (TYPE F) 25/PKG.
- MA-4E58** 3/8" SET SCREW CONNECTOR (TYPE F) 4/PKG.
- MA-4E48** 1/2" SET SCREW CONNECTOR (TYPE F) 4/PKG.



**FLEXIBLE CONDUIT**

TYPE ULC 6 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

**FLEXIBLE CONDUIT**

LIQUID TIGHT  
TYPE EFC-NON-UL

- 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

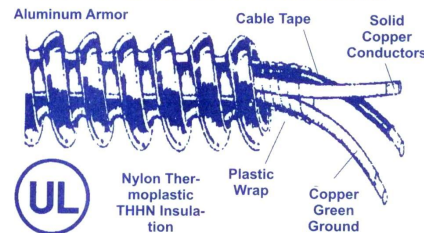
STEEL (GREENFIELD)

- 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 6 100'
- MA-MC22C**  
12/2 6 100'
- MA-MC43C**  
14/3 6 100'
- MA-MC23C**  
12/3 6 100'

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 6 THHN CONDUCTORS WITH GREEN INSULATED GROUND.  
MEETS U.L. 1569.

**ANTI-SHORT  
BUSHINGS**

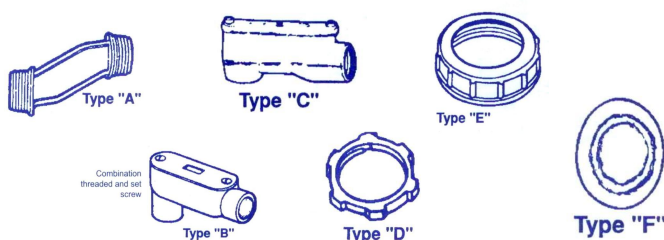
FOR FLEX 6 AC 6 MC CABLE



- 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**

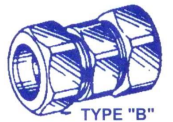
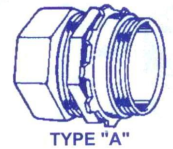
- MA-E376** 1/2" OFFSET NIPPLES (TYPE A) 20/PKG.
- MA-E377** 3/4" OFFSET NIPPLES (TYPE A) 10/PKG.
- MA-E378** 1" OFFSET NIPPLES (TYPE A) 10/PKG.
- MA-E379** 1-1/4" OFFSET NIPPLES (TYPE A) 10/PKG.
- MA-E380** 1-1/2" OFFSET NIPPLES (TYPE A) 10/PKG.
- MA-E96-1CG** 1/2" LB TYPE THREADED OVAL CONDUIT BODY 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)**

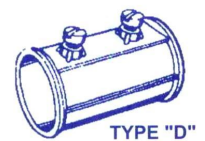
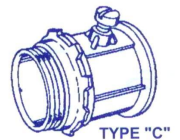
**COMPRESSION TYPE – RAIN TIGHT**

- 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.



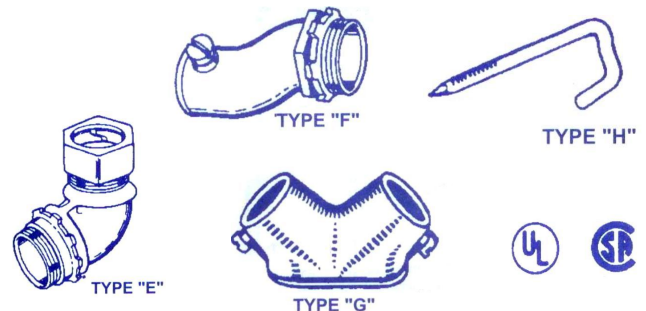
**SET SCREW TYPE – CONCRETE TIGHT**

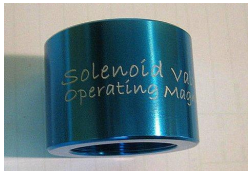
- MA-E121** 1/2" CONNECTOR (TYPE C) 50/PKG.
- MA-E123** 3/4" CONNECTOR (TYPE C) 25/PKG.
- MA-E125** 1" CONNECTOR (TYPE C) 20/PKG.
- MA-E127** 1-1/4" CONNECTOR (TYPE C) 5/PKG.
- MA-E129** 1-1/2" CONNECTOR (TYPE C) 10/PKG.
- MA-E122** 1/2" COUPLING (TYPE D) 50/PKG.
- MA-E124** 3/4" COUPLING (TYPE D) 25/PKG.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



**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-E5S** 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





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

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



<u>5/PKG</u>		<u>50/PKG</u>	
<b>AF1000</b>	1/8"OD	<b>AF1000-50</b>	1/8"OD
<b>AF1100</b>	3/16"OD	<b>AF1100-50</b>	3/16"OD
<b>AF1200</b>	1/4"OD	<b>AF1200-50</b>	1/4"OD
<b>AF1300</b>	5/16"OD	<b>AF1300-50</b>	5/16"OD
<b>AF1400</b>	3/8"OD	<b>AF1400-50</b>	3/8"OD

**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

**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

**MULTI-STEP BRASS BODY**



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

**REFRIGERANT RETENTION  
CONTROL VALVE**



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

**COPPER TUBE EXTENSIONS  
WITH 5/16" FITTING**

5/16" MALE FLARE - COPPER EXTENTION 2" LONG



**AF11516** 3/16"OD (3/PKG)  
**AF12516** 1/4"OD (3/PKG)  
**AF13516** 5/16"OD (3/PKG)

**CAP AND REPLACEMENT  
VALVE CORES**

**AF2000** (10/PKG)  
**AF2000BX** (100/PKG)  
1/4"SAE GASKET SEAL CAP  
W/CORE REMOVER



**AF2100** (5/PKG) **AF2100-25** (25/PKG)  
**AF2100-100** (100/PKG)  
1/4" VALVE CORE

AF2000

**VALVE CORE TOOL**

**AF2200-M** (1/PKG)  
INCLUDES 6 CORES



**COPPER SOLDER TEES  
WITH 1/4" MALE FLARE**

**AF3134** 1/4"OD (3/PKG) **AF3140** 5/8"OD (1/PKG)  
**AF3135** 5/16"OD (3/PKG) **AF3142** 3/4"OD (1/PKG)  
**AF3136** 3/8"OD (3/PKG) **AF3144** 7/8"OD (1/PKG) **AF3138** 1/2"OD (3/PKG) **AF3148** 1-1/8"OD (1/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

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

**COPPER SPUN  
DRIERS**  
DRIERS CONTAIN XH-9  
DESICCANT



**ADJUSTABLE LINE TAP  
VALVE**

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



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

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



MALLEABLE BLACK IRON PIPE FITTINGS

PART #	DESCRIPTION	PKG.	PART #	DESCRIPTION	PKG.
MA-12U	1/2" UNION	50	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			
MA-3490STEL	3/4" 90 DEG. STR. ELBOW	35			
MA-190STEL	1" 90 DEG. STR. ELBOW	30			



UNION



REDUCING COUPLING



45 ELBOW



TEE



90 STREET ELBOW



BUSHING



PLUG



COUPLING



90 ELBOW

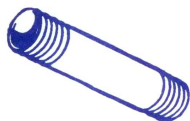


CAP



REDUCING TEE

SPECIFICATIONS:  
 MATERIAL: ASTM A-197  
 DIMENSIONS: ANSI B16.3 & ANSI B16.14  
 THREADS: ANSI B1.20.1



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			



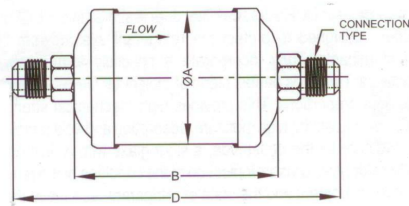
**LIQUID LINE FILTER DRIER  
DCH SERIES  
(SOLID CORE TYPE)**

**INTERNAL  
ASSEMBLY  
CORE TYPE**

**MAXIMUM WORKING  
PRESSURE  
45 BAR (653 PSIG)**

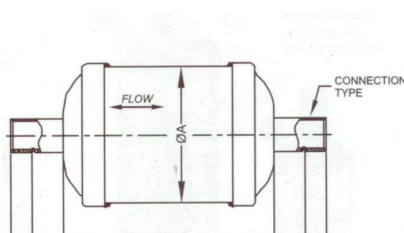
**SAE TYPE CONNECTION  
NICKEL PLATED  
STEEL**

**ODS TYPE CONNECTION  
COPPER**



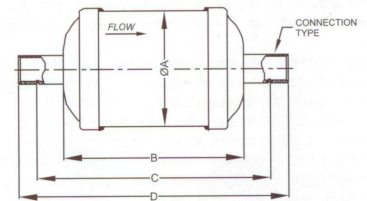
**DCH DRIER WITH SAE  
CONNECTION  
DIMENSIONS**

**DRAWING 1**



**DCH BI-FLOW DRIER WITH ODS  
CONNECTION DIMENSIONS**

**DRAWING 2**



**DCH DRIER WITH ODS  
CONNECTION  
DIMENSIONS**

**DRAWING 3**

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

**DCHBF083S**  
3/8" ODS LIQUID LINE FILTER DRIER  
**BI-FLOW**, 3/8" ODS CONNECTION,  
5.78" OVERALL LENGTH  
**DCHBF163S**  
3/8" ODS LIQUID LINE FILTER DRIER  
**BI-FLOW**, 3/8" ODS CONNECTION,  
6.57" OVERALL LENGTH  
**DRAWING 2**

**DCH163S**  
3/8" ODS LIQUID LINE FILTER DRIER  
3/8" ODS CONNECTION,  
6.77" OVERALL LENGTH  
**DCH164S**  
1/2" ODS LIQUID LINE FILTER DRIER  
1/2" ODS CONNECTION,  
6.77" OVERALL LENGTH  
**DRAWING 3**

**DCH032S**  
1/4" ODS LIQUID LINE FILTER DRIER  
1/4" ODS CONNECTION,  
4.61" OVERALL LENGTH  
**DCH053S**  
3/8" ODS LIQUID LINE FILTER DRIER  
3/8" ODS CONNECTION,  
5.04" OVERALL LENGTH  
**DCH083S**  
3/8" ODS LIQUID LINE FILTER DRIER  
3/8" ODS CONNECTION,  
5.86" OVERALL LENGTH  
**DRAWING 3**

**SCHEDULE 40 PVC FITTINGS**



PART #	DESCRIPTION	PKG.	TYPE
<b>MA-30105</b>	COUPLING 1/2" SLIP X SLIP	100	A
<b>MA-30107</b>	COUPLING 3/4" SLIP X SLIP	50	A
<b>MA-30110</b>	COUPLING 1" SLIP X SLIP	50	A
<b>MA-30605</b>	ELBOW 45 1/2" SLIP X SLIP	50	B
<b>MA-30607</b>	ELBOW 45 3/4" SLIP X SLIP	50	B
<b>MA-30610</b>	ELBOW 45 1" SLIP X SLIP	50	B
<b>MA-30705</b>	ELBOW 90 1/2" SLIP X SLIP	50	C
<b>MA-30707</b>	ELBOW 90 3/4" SLIP X SLIP	50	C
<b>MA-30710</b>	ELBOW 90 1" SLIP X SLIP	50	C
<b>MA-31318</b>	1/2" CLEAN OUT TEE	1	L
<b>MA-31348</b>	3/4" CLEAN OUT TEE	1	L
<b>MA-31405</b>	TEE 1/2" SLIP X SLIP X SLIP	50	D
<b>MA-31407</b>	TEE 3/4" SLIP X SLIP X SLIP	50	D
<b>MA-31410</b>	TEE 1" SLIP X SLIP X SLIP	50	D
<b>MA-30305</b>	ADAPTOR 1/2" SLIP X FPT	100	E
<b>MA-30307</b>	ADAPTOR 3/4" SLIP X FPT	50	E
<b>MA-30311</b>	ADAPTOR 1" SLIP X FPT	50	E
<b>MA-30357</b>	REDUCING FPT ADAPTOR 1/2" SLIP X 3/4" FPT	50	F
<b>MA-30405</b>	ADAPTOR 1/2" SLIP X MPT	100	G
<b>MA-30407</b>	ADAPTOR 3/4" SLIP X MPT	50	G
<b>MA-30410</b>	ADAPTOR 1" SLIP X MPT	50	G
<b>MA-30457</b>	REDUCING MPT ADAPTOR 1/2" SLIP X 3/4" MPT	50	H
<b>MA-30155</b>	CAP 1/2" SLIP	100	I
<b>MA-30157</b>	CAP 3/4" SLIP	50	I
<b>MA-30158</b>	CAP 1" SLIP	50	I
<b>MA-448007</b>	CAP 3/4" FPT	100	I

PART #	DESCRIPTION	PKG.	TYPE
<b>MA-450007</b>	PLUG 3/4" MPT	50	
<b>MA-30275</b>	REDUCING BUSHING 3/4" SLIP X 1/2" SLIP	100	J
<b>MA-437131</b>	REDUCING BUSHING 1" SLIP X 3/4" SLIP	100	J
<b>MA-436074</b>	REDUCING MPT ADAPTOR 3/4" SLIP X 1/2" MPT	100	H
<b>MA-32905</b>	STREET ELBOW 90 1/2" SLIP	50	M
<b>MA-32907</b>	STREET ELBOW 90 3/4" SLIP	50	M
<b>MA-409010</b>	STREET ELBOW 90 1" SLIP	50	M
<b>MA-33905</b>	ELBOW 90 1/2" SLIP X FPT	50	K
<b>MA-33907</b>	ELBOW 90 3/4" SLIP X FPT	50	K
<b>MA-33910</b>	ELBOW 90 1" SLIP X FPT	50	K
<b>MA-401020</b>	TEE 2" SLIP X SLIP X SLIP	25	D
<b>MA-407074</b>	ELBOW 90 3/4" FPT X 1/2" SLIP	50	K
<b>MA-410005</b>	STREET ELBOW 90 1/2" MPT X 1/2" SLIP	50	M
<b>MA-410007</b>	STREET ELBOW 90 3/4" MPT X 3/4" SLIP	50	M
<b>MA-410010</b>	STREET ELBOW 90 1" MPT X 1" SLIP	50	M
<b>MA-410101</b>	STREET ELBOW 90 3/4" MPT X 1/2" SLIP	50	M
<b>MA-457005</b>	UNION 1/2" SLIP X SLIP	10	N
<b>MA-457007</b>	UNION 3/4" SLIP X SLIP	10	N
<b>MA-457010</b>	UNION 1" SLIP X SLIP	10	N
<b>MA-457012</b>	UNION 1-1/4" SLIP X SLIP	5	N
<b>MA-457015</b>	UNION 1-1/2" SLIP X SLIP	5	N
<b>MA-457020</b>	UNION 2" SLIP X SLIP	2	N

PART #	DESCRIPTION	PKG.	TYPE
<b>MA-70115</b>	COUPLING 1-1/2"	100	A
<b>MA-70120</b>	COUPLING 2"	100	A
<b>MA-429025</b>	COUPLING 2-1/2" SCH 40	10	A
<b>MA-70130</b>	COUPLING 3"	60	A
<b>MA-D100040</b>	COUPLING 4"	25	A
<b>MA-70121</b>	RED. COUPLING 2" X 1-1/2"	25	B
<b>MA-70132</b>	RED. COUPLING 3" X 2"	20	B
<b>MA-D102420</b>	RED. COUPLING 4" X 2"	10	B
<b>MA-D102422</b>	RED. COUPLING 4" X 3"	10	B
<b>MA-70116</b>	REPAIR COUPLING 1-1/2"	25	C
<b>MA-70122</b>	REPAIR COUPLING 2"	25	C
<b>MA-70133</b>	REPAIR COUPLING 3"	10	C
<b>MA-D130040</b>	REPAIR COUPLING 4"	5	C
<b>MA-70151</b>	CAP SCH. 40 1-1/2"	25	D
<b>MA-70152</b>	CAP SCH. 40 2"	25	D
<b>MA-447025</b>	CAP SCH. 40 2-1/2"	10	D
<b>MA-70153</b>	CAP SCH. 40 3"	10	D
<b>MA-447040</b>	CAP SCH. 40 4"	5	D
<b>MA-72815</b>	90 DEG. ELBOW 1-1/2"	100	E
<b>MA-72820</b>	90 DEG. ELBOW 2"	50	E
<b>MA-406025</b>	90 DEG. ELBOW SCH 40 2-1/2"	10	E
<b>MA-72830</b>	90 DEG. ELBOW 3"	25	E
<b>MA-D300040</b>	90 DEG. ELBOW 3"	10	E
<b>MA-70615</b>	45 DEG. ELBOW 1-1/2"	100	H
<b>MA-70620</b>	45 DEG. ELBOW 2"	50	H
<b>MA-417025</b>	45 DEG. ELBOW 2-1/2" SCH 40	10	H
<b>MA-70630</b>	45 DEG. ELBOW 3"	20	H

**SCHEDULE 40 PVC-DWV FITTINGS**



PART #	DESCRIPTION	PKG.	TYPE
<b>MA-D321040</b>	45 DEG. ELBOW 4"	100	H
<b>MA-73815</b>	90 DEGREE LONG SWEEP ELBOW 1-1/2"	50	F
<b>MA-73820</b>	90 DEGREE LONG SWEEP ELBOW 2"	25	F
<b>MA-73830</b>	90 DEGREE LONG SWEEP ELBOW 3"	10	F
<b>MA-D304040</b>	90 DEGREE LONG SWEEP ELBOW 4"	5	F
<b>MA-71115</b>	TEE 1-1/2"	100	G
<b>MA-71120</b>	TEE 2"	35	G
<b>MA-401025</b>	TEE SCH. 40 2-1/2"	10	G
<b>MA-71130</b>	TEE 3"	30	G
<b>MA-D400040</b>	TEE 4"	5	G
<b>MA-70221</b>	BUSHING SCH. 40 2" X 1-1/2"	50	I
<b>MA-437292</b>	BUSHING SCH. 40 2-1/2" X 2"	10	I
<b>MA-70231</b>	BUSHING SCH. 40 3" X 1-1/2"	30	I
<b>MA-70232</b>	BUSHING 3" X 2"	30	I
<b>MA-437339</b>	BUSHING SCH. 40 3" X 2-1/2"	10	I
<b>MA-D309015</b>	LONG SWP. STR. ELB. 1-1/2"	10	
<b>MA-D309020</b>	LONG SWP. STR. ELB. 2"	25	
<b>MA-D309030</b>	LONG SWP. STR. ELB. 3"	20	
<b>MA-D323015</b>	45 DEG. STR. ELB. 1-1/2"	100	
<b>MA-D323020</b>	45 DEG. STR. ELB. 2"	50	
<b>MA-D323030</b>	45 DEG. STR. ELB. 3"	20	
<b>MA-207013</b>	NIPPLE TBE SCH. 80 3/4" X CL 50		
<b>MA-207030</b>	NIPPLE TBE SCH. 80 3/4" X 3" 50		

**MA-FL460**  
4 LED  
FLASHLIGHT & 60  
LED WORKLIGHT  
WITH STAND, HOOK  
AND MAGNET



**MA-FL32LED**  
32 LED  
WORKLIGHT  
WITH STAND, HOOK  
AND MAGNET



**MA-FL28L**  
28 LEDS  
TRI BEAM  
FLASHLIGHT



**MA-OV24-3**  
24 LED WORKLIGHT  
WITH 3 LED  
FLASHLIGHT

**MA-FL3A**  
3 LED EXTENDABLE  
FLASHLIGHT  
WITH FLEXIBLE NECK



**MA-HML7**  
7 LED HEAD LAMP  
3 POSITIONS 1-3-7 LED



**MA-FL3-M**  
MIRROR  
ATTACHMENT  
FOR MA-FL3A



**MA-0620**  
5 LED  
FLASHLIGHT

**MA-502N-8L**  
8 LED  
FLASHLIGHT



**MA-FL13089A**  
9 LED FLASHLIGHT

**MA-AP132**  
6 LED PEN LIGHT  
WITH MAGNET AND  
CLIP



**MA-AP3172**  
25 LED WORKLIGHT  
WITH 8 LED FLASHLIGHT  
AND 1 LASER

**MA-UVFL15-1**  
10 LED WHITE  
FLASHLIGHT  
5 UV LED-1 LASER  
AND COMPASS



**MAGNA-LITE**

**MA-1001** (12/CTN)  
MAGNA-LITE JR  
**MA-2001** (1/PKG)  
MAGNA-LITE SR.  
**MA-4001** (1EA/PKG)  
BULB & BATTERY  
REPLACEMENT FOR MA-1001



MA-1001



MA-2001

**INDUSTRIAL GRADE BATTERIES**

**MA-ALD** D ALKALINE  
6/PKG 6 72/CASE  
**MA-ALC** C ALKALINE  
6/PKG 6 72/CASE  
**MA-ALAA** AA ALKALINE  
8/PKG 6 96/CASE  
**MA-ALAAA** AAA ALKALINE  
8/PKG 6 96/CASE  
**MA-AL9V** 9V ALKALINE  
6/PKG 6 72/CASE





**MAGNETIC 180 DEGREE ADJUSTABLE METAL WORKLIGHT WITH 25' CORD**

**MA-748325A**

**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

**LIGHT BULBS**

GENERAL SERVICE BULBS

- MA-4101** 40 WATT (4/PKG)
- MA-4102** 60 WATT (4/PKG)
- MA-4104** 100 WATT (4/PKG)
- MA-4540** 150 WATT (1/PKG)

ROUGH SERVICE BULBS

- MA-4430** 50 WATT (6/PKG)
- MA-4429** 60 WATT (6/PKG)
- MA-4431** 100 WATT (6/PKG)
- MA-4433** 150 WATT (6/PKG)



TOUGHSKIN COATED SHATTER-PROOF BULBS

- MA-4401** 50 WATT (6/PKG)
- MA-4402** 60 WATT (4/PKG)
- MA-4404** 100 WATT (4/PKG)

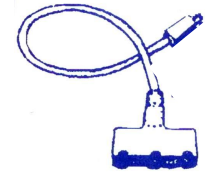
**ALL-WEATHER EXTENSION CORDS**



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

**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



**AIR CONDITIONING EXTENSION CORDS MEETS OSHA SPECIFICATIONS!**



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

**CIRCUIT AND VOLTAGE TESTERS**

- MA-8101** CIRCUIT TESTER 90-300V AC/DC, NEON GLOW INDICATES LIVE CIRCUIT. HEAVY DUTY TWIN LEAD TESTER
- MA-8202** 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-8201** COMBINATION CIRCUIT TESTER AND SCREWDRIVER FOR 80-250V AC/DC WITH POCKET CLIP
- MA-8205** GFI RECEPTACLE TESTER

MA-8101



MA-8202



MA-8201



MA-8203



MA-8205



**VOLTAGE PROBE & CONTINUITY TESTER**

**MA-8206**



**VOLTAGE TESTER**

**MA-7321**

TEST RANGE: 80-300V AC/DC, 50-60HZ



**SOLENOID VOLTAGE TESTER**

**MA-8207**

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



**TEST LEAD WITH START SWITCH**

**MA-69523**

**VOLTAGE TESTER AND LED FLASHLIGHT**  
24 TO 1000VAC

**MA-49858A**



**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 6 2 BLACK AND 2 RED (4/PKG)
- MA03093-1** BLACK & RED INSULATED BOOTS 6 LARGE (4/PKG)
- MA03096-2** JUMBO BATTERY CLIPS WITH 1 BLACK AND 1 RED BOOT

**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

**TEST LEAD ADAPTORS**

**MA02987-2** 1 BLACK AND 1 RED ADAPTORS 6" LENGTH (2/PKG)



MA02991-2

**TEST LEADS AND ADAPTORS**



MA05031-2



MA-32831  
MA-32832

- MA02991-2** 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

**RELAY/OVERLOAD COMBINATION**

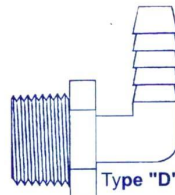
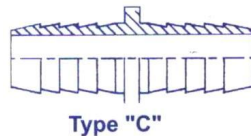
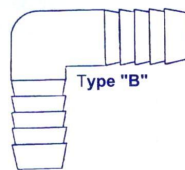
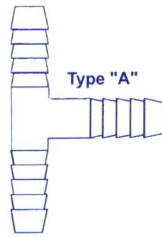
**MA-IC13**  
1/4 & 1/3 HP, 120V, 50/60HZ  
**MA-IC15**  
1/8, 1/6, 1/5 HP 120V, 50/60HZ



- 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.

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-22151	ELBOW 1/4" BARB	5	B
MA-22151-25	ELBOW 1/4" BARB	25	B
MA-22151-50	ELBOW 1/4" BARB	50	B
MA-22151-100	ELBOW 1/4" BARB	100	B
MA-22152	ELBOW 3/8" BARB	5	B
MA-22152-25	ELBOW 3/8" BARB	25	B
MA-22152-50	ELBOW 3/8" BARB	50	B
MA-22152-100	ELBOW 3/8" BARB	100	B
MA-22153	ELBOW 1/2" BARB	4	B
MA-22153-25	ELBOW 1/2" BARB	25	B
MA-22153-50	ELBOW 1/2" BARB	50	B
MA-22153-100	ELBOW 1/2" BARB	100	B
MA-22154	ELBOW 5/8" BARB	4	B
MA-22154-25	ELBOW 5/8" BARB	25	B
MA-22154-50	ELBOW 5/8" BARB	50	B
MA-22154-100	ELBOW 5/8" BARB	100	B
MA-22192	ELBOW 3/4" BARB	3	B
MA-22192-25	ELBOW 3/4" BARB	25	B
MA-22192-50	ELBOW 3/4" BARB	50	B
MA-22192-100	ELBOW 3/4" BARB	100	B
MA-22031	CONNECTOR 1/4"BARB	5	C
MA-22031-25	CONNECTOR 1/4"BARB	25	C
MA-22031-50	CONNECTOR 1/4"BARB	50	C
MA-22031-100	CONNECTOR 1/4"BARB	100	C
MA-12032	CONNECTOR 3/8"BARB	5	C
MA-12032-25	CONNECTOR 3/8"BARB	25	C
MA-12032-50	CONNECTOR 3/8"BARB	50	C
MA-12032-100	CONNECTOR 3/8"BARB	100	C
MA-12033	CONNECTOR 1/2"BARB	4	C
MA-12033-25	CONNECTOR 1/2"BARB	25	C
MA-12033-50	CONNECTOR 1/2"BARB	50	C
MA-12033-100	CONNECTOR 1/2"BARB	100	C
MA-12034	CONNECTOR 5/8"BARB	4	C
MA-12034-25	CONNECTOR 5/8"BARB	25	C
MA-12034-50	CONNECTOR 5/8"BARB	50	C
MA-12034-100	CONNECTOR 5/8"BARB	100	C

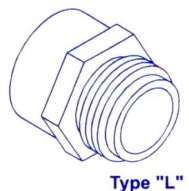
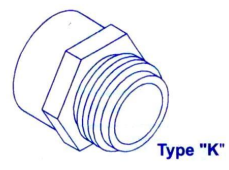
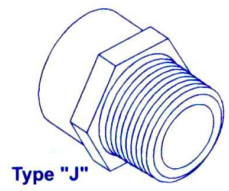
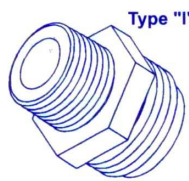
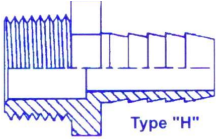
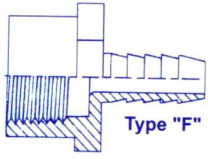
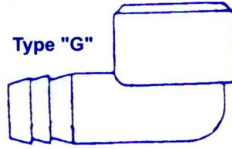
**NYLON FITTINGS**



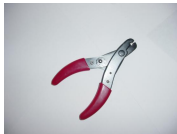
PART #	DESCRIPTION	PKG.	TYPE
MA-12035	CONNECTOR 3/4"BARB	3	C
MA-12035-25	CONNECTOR 3/4"BARB	25	C
MA-12035-50	CONNECTOR 3/4"BARB	50	C
MA-12035-100	CONNECTOR 3/4"BARB	100	C
MA-22263	ELBOW 1/4"B X 1/4"MPT	5	D
MA-22263-25	ELBOW 1/4"B X 1/4"MPT	25	D
MA-22263-50	ELBOW 1/4"B X 1/4"MPT	50	D
MA-22263-100	ELBOW 1/4"B X 1/4"MPT	100	D
MA-22264	ELBOW 1/4"B X 3/8"MPT	4	D
MA-22264-25	ELBOW 1/4"B X 3/8"MPT	25	D
MA-22264-50	ELBOW 1/4"B X 3/8"MPT	50	D
MA-22264-100	ELBOW 1/4"B X 3/8"MPT	100	D
MA-22112	ELBOW 3/8"B X 3/8"MPT	4	D
MA-22112-25	ELBOW 3/8"B X 3/8"MPT	25	D
MA-22112-50	ELBOW 3/8"B X 3/8"MPT	50	D
MA-22112-100	ELBOW 3/8"B X 3/8"MPT	100	D
MA-22113	ELBOW 3/8"B X 1/2"MPT	4	D
MA-22113-25	ELBOW 3/8"B X 1/2"MPT	25	D
MA-22113-50	ELBOW 3/8"B X 1/2"MPT	50	D
MA-22113-100	ELBOW 3/8"B X 1/2"MPT	100	D
MA-22114	ELBOW 3/8"B X 3/4"MPT	4	D
MA-22114-25	ELBOW 3/8"B X 3/4"MPT	25	D
MA-22114-50	ELBOW 3/8"B X 3/4"MPT	50	D
MA-22114-100	ELBOW 3/8"B X 3/4"MPT	100	D
MA-22116	ELBOW 1/2"B X 1/2"MPT	4	D
MA-22116-25	ELBOW 1/2"B X 1/2"MPT	25	D
MA-22116-50	ELBOW 1/2"B X 1/2"MPT	50	D
MA-22116-100	ELBOW 1/2"B X 1/2"MPT	100	D
MA-22117	ELBOW 1/2"B X 3/4"MPT	4	D
MA-22117-25	ELBOW 1/2"B X 3/4"MPT	25	D
MA-22117-50	ELBOW 1/2"B X 3/4"MPT	50	D
MA-22117-100	ELBOW 1/2"B X 3/4"MPT	100	D
MA-22120	ELBOW 5/8"B X 3/4"MPT	4	D
MA-22120-25	ELBOW 5/8"B X 3/4"MPT	25	D
MA-22120-50	ELBOW 5/8"B X 3/4"MPT	50	D
MA-22120-100	ELBOW 5/8"B X 3/4"MPT	100	D
MA-22122	ELBOW 3/4"B X 3/4"MPT	4	D
MA-22122-25	ELBOW 3/4"B X 3/4"MPT	25	D
MA-22122-50	ELBOW 3/4"B X 3/4"MPT	50	D
MA-22122-100	ELBOW 3/4"B X 3/4"MPT	100	D
MA-12052	BUSHING 1/2"MPT X 3/8"FPT	4	E
MA-12052-25	BUSHING 1/2"MPT X 3/8"FPT	25	E
MA-12052-50	BUSHING 1/2"MPT X 3/8"FPT	50	E
MA-12052-100	BUSHING 1/2"MPT X 3/8"FPT	100	E
MA-12053	BUSHING 3/4"MPT X 1/2"FPT	4	E
MA-12053-25	BUSHING 3/4"MPT X 1/2"FPT	25	E
MA-12053-50	BUSHING 3/4"MPT X 1/2"FPT	50	E
MA-12053-100	BUSHING 3/4"MPT X 1/2"FPT	100	E
MA-12054	BUSHING 1"MPT X 3/4"FPT	4	E
MA-12054-25	BUSHING 1"MPT X 3/4"FPT	25	E
MA-12054-50	BUSHING 1"MPT X 3/4"FPT	50	E
MA-12054-100	BUSHING 1"MPT X 3/4"FPT	100	E
MA-12055	BUSHING 1-1/4"MPT X 1"FPT	1	E
MA-12056	BUSHING 1-1/2"MPT X 1-1/4"FPT	1	E
MA-12057	BUSHING 2"MPT X 1-1/2"FPT	1	E

PART #	DESCRIPTION	PKG.	TYPE
MA-22182	ADAPTOR 1/2"B X 1/2" FPT	4	F
MA-22182-25	ADAPTOR 1/2"B X 1/2" FPT	25	F
MA-22182-50	ADAPTOR 1/2"B X 1/2" FPT	50	F
MA-22182-100	ADAPTOR 1/2"B X 1/2" FPT	100	F
MA-22185	ADAPTOR 1/2"B X 3/4" FPT	4	F
MA-22185-25	ADAPTOR 1/2"B X 3/4" FPT	25	F
MA-22185-50	ADAPTOR 1/2"B X 3/4" FPT	50	F
MA-22185-100	ADAPTOR 1/2"B X 3/4" FPT	100	F
MA-22186	ADAPTOR 5/8"B X 3/4" FPT	4	F
MA-22186-25	ADAPTOR 5/8"B X 3/4" FPT	25	F
MA-22186-50	ADAPTOR 5/8"B X 3/4" FPT	50	F
MA-22186-100	ADAPTOR 5/8"B X 3/4" FPT	100	F
MA-22187	ADAPTOR 3/4"B X 3/4" FPT	4	F
MA-22187-25	ADAPTOR 3/4"B X 3/4" FPT	25	F
MA-22187-50	ADAPTOR 3/4"B X 3/4" FPT	50	F
MA-22187-100	ADAPTOR 3/4"B X 3/4" FPT	100	F
MA-22065	ELBOW 1/2"B X 3/4" FPT	4	G
MA-22065-25	ELBOW 1/2"B X 3/4" FPT	25	G
MA-22065-50	ELBOW 1/2"B X 3/4" FPT	50	G
MA-22065-100	ELBOW 1/2"B X 3/4" FPT	100	G
MA-22064	ELBOW 5/8"B X 3/4" FPT	4	G
MA-22064-25	ELBOW 5/8"B X 3/4" FPT	25	G
MA-22064-50	ELBOW 5/8"B X 3/4" FPT	50	G
MA-22064-100	ELBOW 5/8"B X 3/4" FPT	100	G
MA-22066	ELBOW 3/4"B X 3/4" FPT	4	G
MA-22066-25	ELBOW 3/4"B X 3/4" FPT	25	G
MA-22066-50	ELBOW 3/4"B X 3/4" FPT	50	G
MA-22066-100	ELBOW 3/4"B X 3/4" FPT	100	G
MA-22002	ADAPTOR 1/4"B X 1/4" MPT	10	H
MA-22002-25	ADAPTOR 1/4"B X 1/4" MPT	25	H
MA-22002-50	ADAPTOR 1/4"B X 1/4" MPT	50	H
MA-22002-100	ADAPTOR 1/4"B X 1/4" MPT	100	H
MA-22003	ADAPTOR 1/4"B X 3/8" MPT	10	H
MA-22003-25	ADAPTOR 1/4"B X 3/8" MPT	25	H
MA-22003-50	ADAPTOR 1/4"B X 3/8" MPT	50	H
MA-22003-100	ADAPTOR 1/4"B X 3/8" MPT	100	H
MA-22005	ADAPTOR 3/8"B X 3/8" MPT	10	H
MA-22005-25	ADAPTOR 3/8"B X 3/8" MPT	25	H
MA-22005-50	ADAPTOR 3/8"B X 3/8" MPT	50	H
MA-22005-100	ADAPTOR 3/8"B X 3/8" MPT	100	H
MA-22006	ADAPTOR 3/8"B X 1/2" MPT	8	H
MA-22006-25	ADAPTOR 3/8"B X 1/2" MPT	25	H
MA-22006-50	ADAPTOR 3/8"B X 1/2" MPT	50	H
MA-22006-100	ADAPTOR 3/8"B X 1/2" MPT	100	H
MA-22007	ADAPTOR 1/2"B X 3/8" MPT	8	H
MA-22007-25	ADAPTOR 1/2"B X 3/8" MPT	25	H
MA-22007-50	ADAPTOR 1/2"B X 3/8" MPT	50	H
MA-22007-100	ADAPTOR 1/2"B X 3/8" MPT	100	H
MA-22009	ADAPTOR 1/2"B X 1/2" MPT	6	H
MA-22009-25	ADAPTOR 1/2"B X 1/2" MPT	25	H
MA-22009-50	ADAPTOR 1/2"B X 1/2" MPT	50	H
MA-22009-100	ADAPTOR 1/2"B X 1/2" MPT	100	H
MA-22013	ADAPTOR 3/8"B X 3/4" MPT	4	H
MA-22013-25	ADAPTOR 3/8"B X 3/4" MPT	25	H
MA-22013-50	ADAPTOR 3/8"B X 3/4" MPT	50	H
MA-22013-100	ADAPTOR 3/8"B X 3/4" MPT	100	H
MA-22010	ADAPTOR 1/2"B X 3/4" MPT	4	H
MA-22010-25	ADAPTOR 1/2"B X 3/4" MPT	25	H

**NYLON FITTINGS**



PART #	DESCRIPTION	PKG.	TYPE
MA-22010-50	ADAPTOR 1/2"B X 3/4" MPT	50	H
MA-22010-100	ADAPTOR 1/2"B X 3/4" MPT	100	H
MA-22012	ADAPTOR 5/8"B X 3/4" MPT	4	H
MA-22012-25	ADAPTOR 5/8"B X 3/4" MPT	25	H
MA-22012-50	ADAPTOR 5/8"B X 3/4" MPT	50	H
MA-22012-100	ADAPTOR 5/8"B X 3/4" MPT	100	H
MA-22014	ADAPTOR 3/4"B X 3/4" MPT	4	H
MA-22014-25	ADAPTOR 3/4"B X 3/4" MPT	25	H
MA-22014-50	ADAPTOR 3/4"B X 3/4" MPT	50	H
MA-22014-100	ADAPTOR 3/4"B X 3/4" MPT	100	H
MA-12010	ADAPTOR 3/4"MGHT X 3/4" FPT	4	K
MA-12010-25	ADAPTOR 3/4"MGHT X 3/4" FPT	25	K
MA-12010-50	ADAPTOR 3/4"MGHT X 3/4" FPT	50	K
MA-12010-100	ADAPTOR 3/4"MGHT X 3/4" FPT	100	K
MA-12004	ADAPTOR 3/4"MGHT X 3/4" MPT	4	I
MA-12004-25	ADAPTOR 3/4"MGHT X 3/4" MPT	25	I
MA-12004-50	ADAPTOR 3/4"MGHT X 3/4" MPT	50	I
MA-12004-100	ADAPTOR 3/4"MGHT X 3/4" MPT	100	I
MA-12060	ADAPTOR 3/4"MGHT X 3/4" FGHT	3	K
MA-12060-25	ADAPTOR 3/4"MGHT X 3/4" FGHT	25	K
MA-12060-50	ADAPTOR 3/4"MGHT X 3/4" FGHT	50	K
MA-12060-100	ADAPTOR 3/4"MGHT X 3/4" FGHT	100	K
MA-22048	ADAPTOR 3/4"FGHT X 5/8"B	4	L
MA-22048-25	ADAPTOR 3/4"FGHT X 5/8"B	25	L
MA-22048-50	ADAPTOR 3/4"FGHT X 5/8"B	50	L
MA-22048-100	ADAPTOR 3/4"FGHT X 5/8"B	100	L
MA-22049	ADAPTOR 3/4"FGHT X 3/4"B	4	L
MA-22049-25	ADAPTOR 3/4"FGHT X 3/4"B	25	L
MA-22049-50	ADAPTOR 3/4"FGHT X 3/4"B	50	L
MA-22049-100	ADAPTOR 3/4"FGHT X 3/4"B	100	L
MA-12013	ADAPTOR 3/4"MPT X 3/4"FGHT	4	J
MA-12013-25	ADAPTOR 3/4"MPT X 3/4"FGHT	25	J
MA-12013-50	ADAPTOR 3/4"MPT X 3/4"FGHT	50	J
MA-12013-100	ADAPTOR 3/4"MPT X 3/4"FGHT	100	J
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" BARB	25	A
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	
MA-22290-25	TEE 1/2"MPT X 1/2"B X 1/2" B	25	
MA-22290-50	TEE 1/2"MPT X 1/2"B X 1/2" B	50	
MA-22290-100	TEE 1/2"MPT X 1/2"B X 1/2" B	100	
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



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



**MA-VTC1**  
**VINYL TUBING CUTTER**  
CUTS VINYL TUBING, PVC PIPE AND RUBBER TUBING

**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



**DEBURRING TOOLS**

**MA-49310**  
DELUXE DE-BURRING TOOL  
**MA-49311A**  
REPLACEMENT BLADES FOR  
THE MA-49310



**MA-49316**  
ALL METAL DE-BURRING  
TOOL WITH FIXED BLADE



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



**MA-49318**  
**6 IN 1 SWAGING TOOL**  
3/16", 1/4", 5/16", 3/8", 1/2",  
AND 5/8" OD TUBING

**TORQ AND HEX KEY SETS**

**MA-88057** 7PC. TORX FOLD UP SET  
T10, T15, T20, T25, T27, T30 & T40

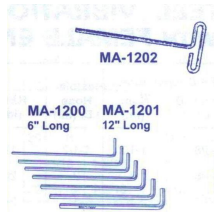
**MA-88081** 8PC. HEX KEY FOLD UP SET  
.050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64" & 5/32"

**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"



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



**8PC  
SCREWDRIVER  
SET**  
4 SLOTTED 6 4 PHILLIPS



**7PC NUT DRIVER SET**    **MA-9355**

REPLACEMENT DRIVERS

- MA-9306** 3/16"  
**MA-9308** 1/4"  
**MA-9310** 5/16"  
**MA-9311** 11/32"



HOLLOW SHAFTS

REPLACEMENT DRIVERS

- MA-9312** 3/8"  
**MA-9314** 7/16"  
**MA-9316** 1/2"

**6 IN 1 SCREWDRIVER**

2 SLOTTED 6 2 PHILLIPS 6 2 NUT DRIVERS  
12 PER DISPLAY BOX

**MA-9357** 6 IN 1 SCREWDRIVER

**MA-SDB2** LARGE & SMALL SLOTTED BIT

**MA-SDB8** LARGE & SMALL PHILLIPS BIT



**MA-9358**  
**6 IN 1 HEAVY DUTY  
RUBBER GRIP  
SCREWDRIVER**

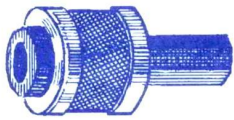


**MULTI-BIT & DRIVER KIT**

**MA-290**

29PC TOOL KIT ASSORTED BITS WITH  
DRIVER & EXTENSION





**QUICK CHANGE DRILL ADAPTOR**

**MA03500-2**

**19 PC. SOCKET SET**

**MA-SOC19**  
STANDARD SIZE  
**MA-SOC19-MET**  
METRIC SIZE



**5/16" ADAPTOR FOR R-410 SYSTEMS**

**MA-19173**

**ADJUSTABLE WRENCHES**

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



**QUICK CHANGE ADAPTOR KIT**

**MA-72066**

**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)

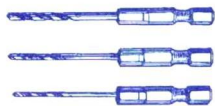


**13PC DRILL SET**  
1/16" 6 1/4" IN ROUND CASE

**MA-147B**

**QUICK CHANGE CHUCK DRILL BITS**

**MA03505-2** 1/16" HEX SHANK  
**MA03506-2** 3/32" HEX SHANK  
**MA03507-2** 1/8" HEX SHANK  
**MA03508-2** 5/32" HEX SHANK  
**MA03509-2** 3/16" HEX SHANK  
**MA03510-2** 1/4" HEX SHANK



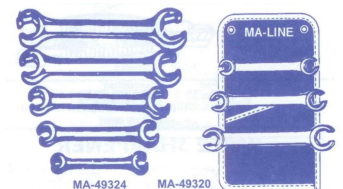
**FIN COMBS**

**MA-MFC1**  
ALL METAL FIN COMB  
**MA-MFC2**  
METAL FIN COMB WITH HANDLE  
**MA-MFC3**  
6 IN 1 FIN COMBS  
8, 9, 10, 12, 14, & 15 FINS/INCH



**FLARE WRENCH SET**

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



**REPLACEMENT WRENCHES**

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

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

**MA-FB2**



STEEL

**MA-70090**  
8" HEAVY DUTY  
**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

PIPE WRENCHES



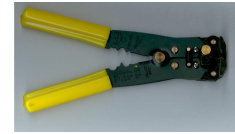
**30" LONG CONDENSER CLEANING TOOL**

**MA-0230**

**MA03200-2**  
**CRIMPING TOOL**



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



**PLIERS**

TONGUE AND GROOVE PLIERS

- MA-424G** 4-1/2" 6 CAPACITY 1/2"
- MA-426G** 6-1/2" 6 CAPACITY 7/8"
- MA-420G** 9-1/2" 6 CAPACITY 1-1/2"
- MA-430G** 10" 6 CAPACITY 2"
- MA-440G** 12" 6 CAPACITY 2-1/4"
- MA-GL10** 10" GRIPLOCK 6 CAPACITY 1-1/4"
- MA-422G** 9-1/2" V-JAW 6 CAPACITY 1-1/2"
- MA-442G** 12" V-JAW 6 CAPACITY 2-1/4"
- MA-460G** 16" 6 CURVED JAW CAPACITY 4-1/4"

STANDARD PATTERN PLIERS

- MA-326** 6" LONG NOSE PLIER
- MA-317G** 7-1/2" LONG NOSE PLIERS WITH SIDE CUTTER
- MA-318** 8" HEAVY DUTY LONG NOSE PLIERS WITH SIDE CUTTER
- MA-337** 7" LAP JOINT DIAGONAL PLIER
- MA-338** 8" LAP JOINT DIAGONAL PLIER
- MA-348** 8-1/2" LINEMAN'S BEVEL NOSE PLIER
- MA-909** CRIMPING TOOL

SNAP RING PLIER

- MA-926** 6" SNAP RING PLIER

WIRE CUTTER

- MA-908G** WIRE CUTTER



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



**"QUICK-PIERCE" REFRIGERANT RECOVERY TOOL**

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

**WISE-GRIP® LOCKING HAND TOOLS**

- MA-4LN
- MA-6LN
- MA-9LN



- MA-7CR
- MA-10CR



- MA-4LN** 4" LONG NOSE LOCKING PLIER WITH WIRE CUTTER
- MA-6LN** 6" LONG NOSE LOCKING PLIER WITH WIRE CUTTER
- MA-9LN** 9" LONG NOSE LOCKING PLIER WITH WIRE CUTTER
- MA-7CR** 7" CURVED JAW LOCKING PLIER
- MA-7WR** 7" CURVED JAW LOCKING PLIER WITH WIRE CUTTER
- MA-10CR** 10" CURVED JAW LOCKING PLIER
- MA-10WR** 10" CURVED JAW LOCKING PLIER WITH WIRE CUTTER
- MA-8R** 8" SHEET METAL LOCKING PLIER

- MA-7WR
- MA-10WR



- MA-8R





**MA-MT53**  
**PLIERS PLUS**  
 MULTIFUNCTIONAL TOOL  
 (PICTURE SHOWN TO THE LEFT)

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

**STAINLESS STEEL  
 POCKET KNIVES**

**MA-KVS007**  
 2" BLADE, 3" CLOSED SMOOTH BLADE  
**MA-KVS008**  
 2" BLADE, 3" CLOSED SERRATED BLADE



**MA-202**  
**DELUXE UTILITY CUTTER**  
**MA-202RB**  
**REPLACEMENT BLADES**

**FOLDING UTILITY**  
**MA-301C**

INCLUDES:  
 3 ADDITIONAL REPLACEMENT BLADES



**DUCTBOARD KNIFE & SHEATH**  
 STAINLESS STEEL 2 SIDED KNIFE

**MA-KN74HD**  
 1 SIDE SMOOTH \* 1 SIDE SERRATED

**FOLDING KNIFE WITH  
 SMOOTH/SERRATED  
 BLADE**

**MA-AP890**



**SURGICAL  
 STAINLESS STEEL  
 POCKET KNIFE**  
 WITH HARDWOOD HANDLE  
**MA-KC710**

**SCRAPER & PUTTY KNIVES**

MA-72435  
 MA-72437

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



MA-72439



MA-72433



**POCKET LEVELS**  
**MA-8400**  
 ALUMINUM 5"  
 POCKET LEVEL



**MA-8401**  
 PLASTIC 5" POCKET LEVEL



MA-8408

**MA-8408**  
 MAGNETIC PVC 9"  
 POCKET LEVEL

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

**SPECIALTY  
 TOOLS**



MA-186

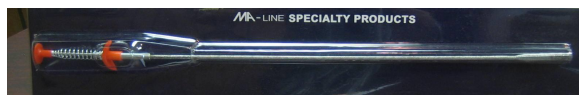


MA-159A

**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-114

**SNIPS**

**OFFSET SNIPS**



TINNER SNIPS



AVIATION SNIPS

AVIATION SNIPS

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

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

**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"

**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.

**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

**PLASTIC NIPPLE TRAYS**



**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**

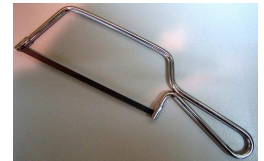
**MA-1266T** 1/2" (66 PCS)  
6EA. OF CLOSE TO 6"

**MA-3466T** 3/4" (66 PCS)  
6EA. OF CLOSE TO 6"

**MA-0160T** 1" (60 PCS)  
6EA. OF CLOSE TO 6"



**HACKSAWS**



**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)

**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

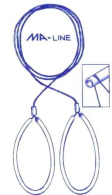
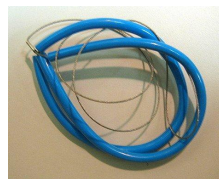


**REEL TAPE**

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

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

**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.

**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



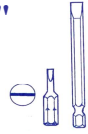
The Deluxe Digital Electronic Caliper represents the latest in technology at an economical price. The unit will measure in standard inches or metric. It comes with a deluxe storage case to protect this valuable instrument. The LED display is designed to measure at the speed of 60"/second or 1.5m/second.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





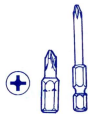
**MA-MGT1**  
MAGNETIC PARTS TRAY ROUND

**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



**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 6 100 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 6 500 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"

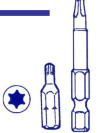
HEX WASHER HEAD FAST PENETRATING HEAD SLOTTED SCREWS

- BAGS 6 100 PCS  
**MA03413-2** 6 X 3/8"  
**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 6 500 PCS  
**MA03565-3** 8 X 1"  
**MA03567-3** 10 X 1"  
TUBS 6 1000 PCS  
**MA03413-4** 6 X 3/8"  
**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"



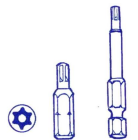
**MA-MGT2**  
MAGNETIC PARTS TRAY RECTANGULAR

**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**

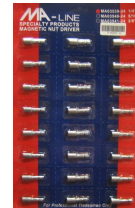


- 1" LENGTH  
**MA-9634** T-10 (3/PKG)  
**MA-9635** T-15 (3/PKG)  
**MA-9636** T-20 (3/PKG)  
**MA-9637** T-25 (3/PKG)  
**MA-9638** T-30 (3/PKG)  
**MA-9639** T-40 (3/PKG)  
2" LENGTH  
**MA-9640** T-10 (2/PKG)  
**MA-9641** T-15 (2/PKG)  
**MA-9642** T-20 (2/PKG)  
**MA-9643** T-25 (2/PKG)  
**MA-9644** T-30 (2/PKG)  
**MA-9645** T-40 (2/PKG)

**MAGNETIC CHUCKS**

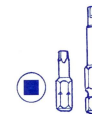
FOR ELECTRIC DRILLS AND POWER SCREWDRIVERS

- 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"



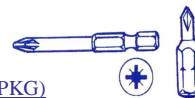
- 2-9/16" LENGTH  
**MA03544-2** 1/4"  
**MA03545-2** 5/16"  
**MA03546-2** 3/8"  
POINT OF PURCHASE DISPLAY CARD 24 PCS. PER CARD  
**MA03539-24** 1/4" X 1-5/8"  
**MA03540-24** 5/16" X 1-5/8"  
**MA03541-24** 3/8" X 1-5/8"

- |                  |                            |                            |
|------------------|----------------------------|----------------------------|
|                  | <u>1" LENGTH 6 (3/PKG)</u> | <u>2" LENGTH 6 (2/PKG)</u> |
| <b>ROBERTSON</b> | <b>MA-9650</b> 1/16"       | <b>MA-9654</b> 1/16"       |
| <b>1/4" HEX</b>  | <b>MA-9651</b> 3/32"       | <b>MA-9655</b> 3/32"       |
| <b>INSERT</b>    | <b>MA-9652</b> 1/8"        | <b>MA-9656</b> 1/8"        |
|                  | <b>MA-9653</b> 9/64"       | <b>MA-9657</b> 9/64"       |



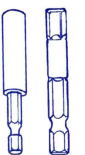
**POZIDRIVE 1/4" HEX INSERT**

- 1" LENGTH 6 (3/PKG)    2" LENGTH 6 (2/PKG)  
**MA-9646** 1 PT    **MA-9648** 1 PT  
**MA-9647** 2 PT    **MA-9649** 2 PT



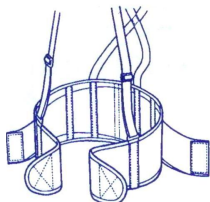
**MAGNETIC BIT HOLDER 1/4" HEX DRIVE**

- 1" LENGTH 6 (1/PKG)  
**MA-9662** 2-1/2"  
**MA-9663** 3"  
**MA-9664** 1/4" X 1/4"  
**MA-9665** 1/4" X 3/8"



**BACK BELT  
WITH SUSPENDERS**

- \* MESH BACK SUPPORT BELT
- \* 8" WIDE MESH BACK PANEL
- \* 5" WIDE ELASTIC BANDS FOR PROPER FIT
- \* 1-1/4" WIDE ELASTIC BAND ADJUSTABLE SUSPENDERS



- MA-5400S** SMALL FITS WAIST 26" - 33"
- MA-5400M** MEDIUM FITS WAIST 32" - 38"
- MA-5400L** LARGE FITS WAIST 37" - 43"
- MA-5400XL** EXTRA LARGE FITS WAIST 41" - 49"

DOES NOT  
OFFER  
RESPIRATORY  
PROTECTION



**NON-TOXIC  
PARTICLE &  
DUST MASK**

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

**COVERALLS &  
BOOT/SHOE  
COVERS**



- MA-36732** LARGE (42-44) WHITE COVERALLS WITH ATTACHED HOOD
- MA-36742** EXTRA LARGE (46-50) WHITE COVERALLS WITH ATTACHED HOOD
- MA-73532** BLUE SHOE COVERS FITS SIZES 6-12 (150 PAIRS PER CASE)

**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.

**GLOVES**

**MA-48L** 8 OZ. WHITE COTTON CANVAS WITH NAVY KNIT WRIST



MA-48L & MA-508L

**MA-508L** LARGE BROWN JERSEY KNIT WRIST

**MA-167L** PVC VINYL OUTER SHELL WITH COTTON FLEECE LINING - EXTRA LONG 14" GAUNTLET CUFF AND TEXTURED 6 ROUGH FINISH FOR EXCELLENT WET GRIP 6 CHEMICAL RESISTANT 6 LIQUIDPROOF



MA-167L

**MA-190** BLACK NEOPRENE WITH BLUE KNIT WRIST COATING OVER 100% COTTON BACKING 6 CHEMICAL, FUEL & OIL RESISTANT 6 LIQUIDPROOF



MA-190

**MA-192** BLACK NEOPRENE WITH 12" GAUNTLET CUFF COATING OVER 100% COTTON BACKING 6 CHEMICAL, FUEL & OIL RESISTANT 6 LIQUIDPROOF



MA-192

**MA-302L** 9 OZ. BROWN COTTON 6 HOB-NOB PLASTIC DOTS ON PALM, THUMB AND FOREFINGER FOR BETTER GRIP



MA-302L

**MA-1132L** ADJUSTABLE BALL AND STRAP FASTENER 6 GRAIN LEATHER 6 USE WHERE EXTRA DURABILITY & HAND PROTECTION ARE IMPORTANT



MA-1132L

**MA-2149L** 100% BROWN COTTON JERSEY OUTER FABRIC BONDED TO RED FLEECE COTTON LINING 6 BUNN CUT 6 SIDE OPENING



MA-2149L

- (1) PLASTIC CARRYING CASE
- (4) EXTRA-STRENGTH NON-ASPIRIN TABLETS
- (2) IBUPROFEN TABLETS
- (2) ASPIRIN 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 PACKS
- (1) FIRST AID TAPE ROLL 1/2" X 5 YDS.
- (1) FINGER SPLINT
- (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

**CARRY ALL  
BLACK NYLON  
POUCH**

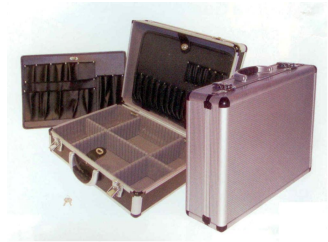
**MA-MC123**

12"L X 6"W X 2"D



**EXECUTIVE  
TOOL CASE**

**MA-5TCA**  
FOR LIGHT WEIGHT  
TOOLS



**PLASTIC TOOL  
& TOTE CASES**

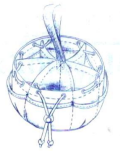


**MA-303** TOOL BOX WITH LIFT TRAY 15-3/8" X 7-3/4" X 4-1/4"

**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"

**BUCKETS &  
BUCKET ORGANIZERS**



**MA-5GP** 5 GALLON BUCKET, BLUE, TOUGH & LONGLASTING

**MA-1117** HEAVY DUTY BUCKET POCKET, 30 POCKETS 6 16 MULTI SIZE INSIDE AND 14 OUTSIDE TO ORGANIZE A WIDE RANGE OF TOOLS & ACCESSORIES 6 FITS 3-1/2 TO 5 GAL.

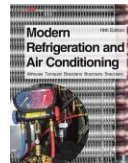
**MA-1148** 22 POCKET DRAWSTRING BUCKET BAG - 6 LARGE POCKETS INSIDE AND 16 POCKETS OUTSIDE - EASY-LOCK/PUSH BUTTON-RELEASE DRAWSTRING - 10"R X 6" H

**MAX-FLOW™  
COMBINATION OIL PUMP**

**MA-77940**

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

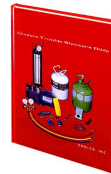


**MODERN REFRIGERATION &  
AIR CONDITIONING BOOKS**  
LATEST EDITION IN HARD COVER

**MA-340-5** MODERN REFRIGERATION & AIR CONDITIONING

**MA-345-1** DOOLINS TROUBLE SHOOTER BIBLE (ENGLISH)

**MA-345-2** DOOLINS TROUBLE SHOOTER BIBLE (SPANISH)



**GREASE, GREASE GUNS, FITTINGS  
TOOLS AND ACCESSORIES**



MA-11315



MA-11302



MA-11354



MA-30132



MA-30200

**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

**FORM HOLDER CLIPBOARDS**



AH SERIES

SN SERIES

**MA-AH8512** 8-1/2" X 12"

**MA-SN5795** 5-2/3" X 9-1/2"

**MA-SN8512** 8-1/2" X 12"



**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)



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

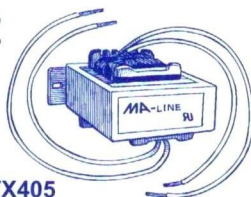
**MINI PRESSURE SWITCHES**



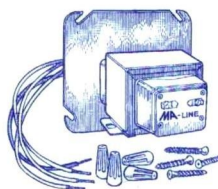
**MA-LINE CLASS 2 TRANSFORMERS**



MA-TX402



MA-TX405



MA-TX501



MA-TX502



MA-TX779

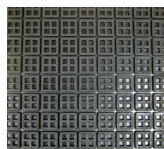
PART #	REPLACES	CONNECTION TYPE	PRIMARY VOLTAGE	SECONDARY VOLTAGE	OUTPUT RATING	MOUNTING STYLE
<b>MA-TX202</b>	620-202	NOT UL	120	24	20VA	PLUG-IN
<b>MA-TX205</b>	50351	WIRE LEAD	120	24	20VA	FOOT
<b>MA-TX402</b>	50333	WIRE LEAD	120/208/240	2, 5, 12, 24	48VA	MULTI
<b>MA-TX403</b>	50302	WIRE LEAD	120	24	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

**ANTI-VIBRATION PADS**



ALL RUBBER

- MA-002RR** 2" X 2" X 3/8" 48/BOX
- MA-003RR** 3" X 3" X 3/8" 36/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



NATURAL RUBBER

- 81 SQUARES PER SHEET PRICE PER SHEET
- MA-181834** 18" X 18" X 3/4" 6/BOX
  - MA-181838** 18" X 18" X 3/8" 12/BOX



CORK AND RUBBER

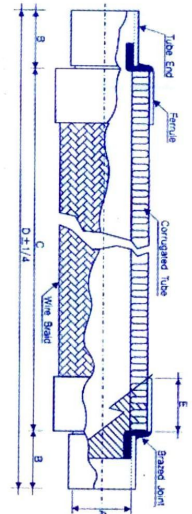
- MA-002CR** 2" X 2" X 7/8" 48/BOX
- MA-003CR** 3" X 3" X 7/8" 36/BOX
- MA-004CR** 4" X 4" X 7/8" 24/BOX
- MA-006CR** 6" X 6" X 7/8" 24/BOX
- MA-012CR** 12" X 12" X 7/8" 12/BOX
- MA-018CR** 18" X 18" X 7/8" 6/BOX

**WORLD SOURCE VIBRATION ELIMINATORS (IMPORT)**

**STAINLESS STEEL VIBRATION ELIMINATORS WITH FEMALE COPPER ENDS**



PART NUMBER	ACTUAL OD OF COPPER TUBING (IN.)	A (ID.)	DIMENSION (INCHES)				MAX WORKING PRESSURE (PSIG.)	BURST PRESSURE (PSIG.)
			B (+/- 1/8")	C (+/- 1/8")	D (+/- 1/4")	E (+/- 1/16")		
<b>VE140D</b>	1/4	1/4	3/4	6-5/8	8-1/16	1/2	500	2500
<b>VE380D</b>	3/8	3/8	13/16	6-15/16	8-9/16	1/2	500	2500
<b>VE120D</b>	1/2	1/2	7/8	7-1/4	9	1/2	500	2500
<b>VE580D</b>	5/8	5/8	15/16	8	9-7/8	11/16	500	2500
<b>VE340D</b>	3/4	3/4	1-1/4	8-1/16	10-9/16	11/16	500	2500
<b>VE780D</b>	7/8	7/8	1-7/16	9-1/8	12	13/16	500	2500
<b>VE1180D</b>	1-1/8	1-1/8	1-13/16	9-7/16	13-1/16	13/16	500	2500
<b>VE1380D</b>	1-3/8	1-3/8	2	11-1/2	15-9/16	7/8	500	2500
<b>VE1580D</b>	1-5/8	1-5/8	2-1/4	12-3/8	16-7/8	15/16	500	2500
<b>VE2180D</b>	2-1/8	2-1/8	2-3/4	15-3/16	20-5/8	15/16	390	1950
<b>VE2580D</b>	2-5/8	2-5/8	3-1/8	18-1/16	24-5/16	1-1/4	340	1700
<b>VE3180D</b>	3-1/8	3-1/8	3-7-16	20	26-15/16	1-1/2	300	1500
<b>VE3580D</b>	3-5/8	3-5/8	4-1/8	24	32-3/16	1-9/16	175	525
<b>VE4180D</b>	4-1/8	4-1/8	4-7/16	24	32-15/16	1-9/16	175	525



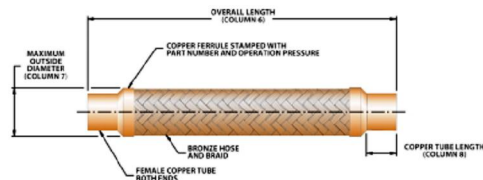
**ANACONDA/UNIVERSAL VIBRATION ELIMINATORS**

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>3618FZ</b>	1/4	1/8	3/16	7	1/2	9/16	1/2	700
<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 ó R22 ó R23 ó R125  
 R134A ó R401A ó R401B  
 R402A ó R402B ó R404A  
 R407A ó R407B ó R407C  
 R408A ó R409A ó R410A  
 R410B ó R412A ó R502  
 R507 ó R508 ó R509



- MA-6182** DOUBLE ROW 4 TERMINAL  
20AMP BLOCK 2.2" LONG
- MA-6183** DOUBLE ROW 6 TERMINAL  
20AMP BLOCK 2.9" LONG
- MA-6184** DOUBLE ROW 8 TERMINAL  
20AMP BLOCK 3.7" LONG
- MA-6185** DOUBLE ROW 10 TERMINAL  
20AMP BLOCK 4.4" LONG
- MA-6186** DOUBLE ROW 12 TERMINAL  
20AMP BLOCK 5.2" LONG
- MA-6187** DOUBLE ROW 14 TERMINAL  
20AMP BLOCK 5.9" LONG
- MA-6188** JUMPER FOR 20AMP  
TERMINAL BLOCK (10/PKG)

### TERMINAL BLOCKS & JUMPERS



**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

- MA-6192** DOUBLE ROW 4 TERMINAL  
30AMP BLOCK 3.2" LONG
- MA-6193** DOUBLE ROW 6 TERMINAL  
30AMP BLOCK 4.3" LONG
- MA-6194** DOUBLE ROW 8 TERMINAL  
30AMP BLOCK 5.5" LONG
- MA-6195** DOUBLE ROW 10 TERMINAL  
30AMP BLOCK 6.6" LONG
- MA-6196** DOUBLE ROW 12 TERMINAL  
30AMP BLOCK 7.7" LONG
- MA-6197** DOUBLE ROW 14 TERMINAL  
30AMP BLOCK 8.8" LONG
- MA-6198** JUMPER FOR 30AMP  
TERMINAL BLOCK (10/PKG)

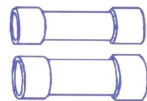


### FLARED VINYL INSULATED RINGS

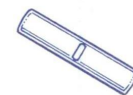
PART#	RANGE	STUD	PKG	PART#	RANGE	STUD	PKG
MA02536-1	16-14	6	20	MA02956-1	16-14	3/8	15
MA02537-1	16-14	8	20	MA02960-1	12-10	6	15
MA02528-1	16-14	10	20	MA02962-2	12-10	8	100
MA02532-1	16-14	1/4	15	MA02969-1	12-10	1/2	5
MA02581-1	12-10	8	15	MA02620-2	16-14	8	100
MA02530-1	12-10	10	15	MA02621-2	16-14	10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

### BUTT SPLICE CONNECTORS

PART#	RANGE	PKG	PART#	RANGE	PKG
MA02014-1	ASSORT	15	MA02816-1	22-18	20
MA02521-1	16-14	20	MA02818-1	16-14	35
MA02522-1	12-10	15	MA02820-1	12-10	35
MA02591-1	22-18	20	MA03790-2	22-18	100
MA02596-2	16-14	100	MA03791-2	16-14	100
MA03011-2	22-18	100	MA03792-2	12-10	100
MA03012-2	12-10	100			



FLARED 6 VINYL INSULATED



NON-INSULATED

### RINGS-SPADES-DISCONNECTS NON-INSULATED

PART#	RANGE	STUD	PKG	PART#	RANGE	STUD	PKG
MA02707-2	22-10	6	100	MA02762-2	22-18	6	100
MA02724-2	16-14	6	100	MA02770-1	16-14	6	35
MA02726-1	16-14	8	35	MA02771-2	16-14	6	100
MA02727-2	16-14	8	100	MA02773-1	16-14	8	35
MA02729-1	16-14	10	35	MA02774-2	16-14	8	100
MA02729-2	16-14	10	100	MA02776-1	16-14	10	35
MA02744-1	12-10	8	25	MA02777-2	16-14	10	100
MA02745-2	12-10	8	100	MA02779-1	12-10	6	25
MA02746-1	12-10	10	25	MA02780-2	12-10	6	100
MA02747-2	12-10	10	100	MA02782-1	12-10	8	25
MA02749-1	12-10	1/4	20	MA02783-2	12-10	8	100
MA01123-1	8	10	5	MA02785-1	12-10	10	25
MA01124-1	8	1/4	5	MA02786-2	12-10	10	100



MA02726-1



MA02773-1

#### DISCONNECTS

MA02821-1	22-18F	110	20	MA02837-2	22-18M	250	100
MA02822-2	22-18F	110	100	MA02839-1	16-14M	250	35
MA02823-1	22-18F	250	35	MA02840-2	16-14M	250	100
MA02824-2	22-18F	250	100	MA02842-1	12-10M	250	35
MA02825-1	16-14F	250	35	MA02843-2	12-10M	250	100
MA02826-2	16-14F	250	100				
MA02827-1	12-10F	250	30				
MA02828-2	12-10F	250	100				
MA02830-1	22-18F	187	35				
MA02833-1	16-14F	187	35				
MA02834-2	16-14F	187	100				



MA02823-1



MA02825-1

### SOLDERLESS TERMINALS HIGH TEMPERATURE NON INSULATED

PART#	RANGE	STUD	PKG	PART#	RANGE	STUD	PKG
MA02127-1	16-14	.250	4	DISCONNECTS CON'T			
MA02127-2	16-14	.250	100	MA02882-2	12-10F	250	100
MA02065-1	8	1/4	15	MA03362-1	16-14	250	20
MA02065-2	8	1/4	100	FLAG			
MA02142-1	8	1/4	20	MA03363-2	16-14	250	100
MA02142-2	8	1/4	100	FLAG			
MA03771-1	22-18	6	30	MA03798-1	12-10	250	20
MA03772-1	22-18	10	30	FLAG			
MA03773-1	16-14	6	30	MA03798-2	12-10	250	100
MA02860-1	16-14	10	30	FLAG			
MA02861-2	16-14	10	100	MA03776-1	16-14F	187	20
MA02869-1	12-10	10	20	MA03782-2	16-14F	187	100
MA02870-2	12-10	10	100	MA03783-2	22-18	187	100
MA02872-1	12-10	1/4	15	FEMALE			
MA02873-2	12-10	1/4	100	MA03784-1	22-18	187	20
MA03774-1	16-14	1/4	20	MALE			
MA03778-2	22-18	6	100	MA03784-2	22-18	187	100
MA03779-2	22-18	10	100	MALE			
MA03780-2	16-14	6	100	MA03785-1	18-14M	250	15
MA03781-2	16-14	1/4	100	SPADE			
DISCONNECTS				MA03785-2	18-14M	250	100
MA02875-1	16-14F	250	20	SPADE			
MA02876-2	16-14F	250	100	MA03793-1	22-10	10	25
MA02881-1	12-10F	250	20	SPADE			
MA02127-1	MA03798-1			MA03793-2	22-10	10	100
				SPADE			
				MA03794-2	16-14	10	100
				SPADE			



MA02880-1



MA03362-1



MA02881-1



### COMPRESSOR NON-INSULATED



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

### SPADES-FLARED VINYL INSULATED

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

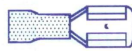
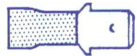


TYPE A



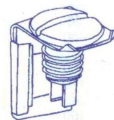
TYPE B

### QUICK DISCONNECTS FLARED VINYL INSULATED

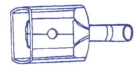


PART#	RANGE	TAB	PKG	PART#	RANGE	TAB	PKG
MA02013-1	ASSORT	-	20	MA02598-2	16-14 F	250	100
MA02526-1	16-14M	250	20	MA02619-2	12-10 F	250	100
MA02586-1	22-18 F	250	20	MA03013-2	22-18 F	250	100
MA02587-1	22-18M	250	20	MA03016-2	22-18 F	187	100
MA02588-1	16-14 F	250	20	MA03019-2	16-14 F	187	100
MA02589-1	12-10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

### 90 DEGREE DISCONNECT WITH SCREW



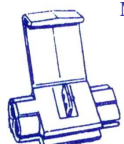
PART#	TAB	PKG
MA03775-1	.250	5
MA03775-2	.250	100



### FLAG DISCONNECT NON-INSULATED

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

### SPECIAL DEVICE IN-LINE SPLICES



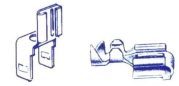
MA03063-1

MA01066-1

**MA03063-1** IN-LINE 18-14  
BLUE (8/PKG)  
**MA01066-1** T-TAP/MALE ASSORTMENT  
KIT/250 TAB/BLUE (8/PKG)



### SPECIAL DEVICE DISCONNECTS



PART#	RANGE	TAB	PKG
MA02109-1	-	250 INSUL.	10
MA02911-2	-	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
MA03349-1	-	250/10STUD	10
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

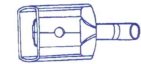


MA03042-1 MA03349-1



MA01029-1  
MA01029-2

### QUICK DISCONNECTS

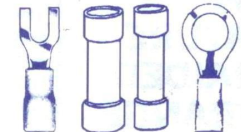


PART#	RANGE	TAB	PKG	PART#	RANGE	TAB	PKG
MA03465-1	22-18MF	250	10	MA03467-2	22-18F	250	100
MA03466-1	16-14MF	250	10	MA03469-2	22-18M	250	100
MA03467-1	22-18 F	250	10	MA03471-2	16-14F	250	100
MA03469-1	22-18M	250	10	MA03473-2	16-14M	250	100
MA03471-1	16-14 F	250	10	MA03475-2	12-10F	250	100
MA03473-1	16-14M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

### SMALL ASSORTMENT KITS - INSULATED

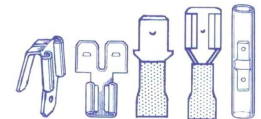
#### ASSORTED RING & BUTT CONNECTORS (14/PKG)

**MA02012-1**  
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



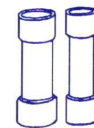
#### ASSORTED QUICK DISCONNECTS (20/PKG)

**MA02013-1**  
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



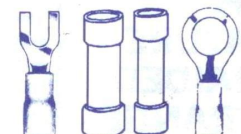
#### ASSORTED BUTT CONNECTORS (17/PKG)

**MA02014-1**  
8PCS. 16-14  
6PCS. 22-10  
3PCS. 12-10



#### ASSORTED RINGS, SPADES, & CONNECTORS (20/PKG)

**MA02015-1**  
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





**175PC.  
TERMINAL KIT**  
(STORED IN PLASTIC BOX)  
**MA02652-2**

TO SERVICE A/C,  
REFRIGERATION, AND  
COOLING UNITS

- 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, 1/46 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  
 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: 16-14x8, 12-10x7  
 9 pcs. Wire Connector: Orange (4) Yellow (5)  
 3 pcs. Wire Connector: Red

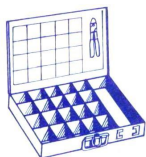


**201PC.  
DELUXE  
TERMINAL KIT**  
(STORED IN A METAL BOX)  
**MA02653-2**

201 OF THE MOST POPULAR  
ITEMS 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  
 10 pcs. Closed-End Connectors: 12-18  
 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

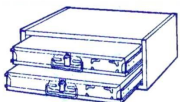
**METAL STORAGE DRAWERS  
& SLIDE RACKS FOR MA03375-2**



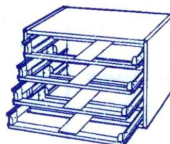
**MA03375-2**  
21 COMPARTMENT DRAWER  
13- 3/16" X 9-1/4" X 2"



**MA03376-2**  
32 COMPARTMENT DRAWER  
18" X 12" X 3"



**MA03353-2**  
2 DRAWER SLIDE RACK  
FOR MA03375-2

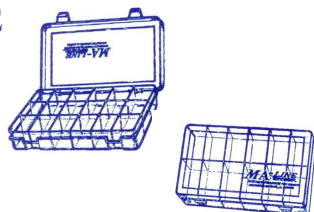


**MA03355-2**  
4 DRAWER SLIDE RACK  
FOR MA03375-2

(SLIDE RACKS DO NOT INCLUDE DRAWERS)

**PLASTIC STORAGE  
BOXES**

**MA-3600**  
18 COMPARTMENT BOX  
**MA-3612**  
12 COMPARTMENT BOX



**WIRE CONNECTOR  
ASSORTMENT**

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

**MA06295-2** (44 ASSORTED PCS)  
GREY, BLUE, RED, YELLOW & ORANGE  
IN A REUSABLE BAG



INCLUDES 50 ANCHORS & 50 COMBINATION  
PAN HEAD SCREWS

**MA-8414** 8 X 1-1/4" PLASTIC  
**MA-8415** 8 X 1-1/4" METAL

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

**ANCHOR  
KITS**



**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

**MA03754-2** (60 PCS)  
SPECIAL NUT KIT  
6-32, 8-32, 10-24 & 1/4-20



MA03754-2

**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** (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



MA03750-2

**MA03757-2** (60 PCS)  
SHEET METAL SCREW KIT  
8X1/2, 8X3/4, 10X1/2, 10X1



MA03757-2

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



MA03752-2



MA03802-2



UL 1015,  
600V, 105C

**MOTOR  
HOOK UP  
WIRE**



STRANDED

PART #	AWG	FT/PKG	PART #	AWG	FT/PKG
<u>RED</u>					
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
<u>BLACK</u>					
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
<u>WHITE</u>					
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
<u>GREEN</u>					
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
<u>BLUE</u>					
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.

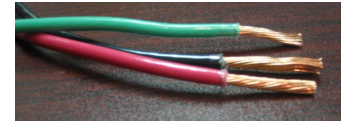
400F AND 200C MAX. TEMPERATURE 6 600 MAX. VOLTAGE  
14 GAUGE UL 3071 AND 12 GAUGE UL STYLE 3074,  
CSA TYPE SEW-2

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

PART #	LENGTH	PART #	LENGTH	PART #	LENGTH	PART #	LENGTH	PART #	LENGTH
<u>12 GAUGE</u>									
MA0512G	5'	MA0514G	5'	MA0HT14R1	5'	MA0HT14B1	5'	MA0HT14W1	5'
MA01012G	10'	MA01014G	10'	MA0HT14R2	10'	MA0HT14B2	10'	MA0HT14W2	10'
MA02512G	25'	MA02514G	25'	MA0HT14R3	25'	MA0HT14B3	25'	MA0HT14W3	25'
MA05012G	50'	MA05014G	50'	MA0HT14R4	50'	MA0HT14B4	50'	MA0HT14W4	50'
				MA0HT14R5	100'	MA0HT14B5	100'	MA0HT14W5	100'

**COPPER THHN  
WIRE**

UL APPROVED  
500Ø SPOOLS



PART	STRANDED	PART	SOLID
<u>BLACK</u>			
MA-THHN8B	8 GAUGE	MA-TTHNS-10B	10 GAUGE
MA-THHN10B	10 GAUGE	MA-TTHNS-12B	12 GAUGE
MA-THHN12B	12 GAUGE	MA-TTHNS-14B	14 GAUGE
MA-THHN14B	14 GAUGE	<u>RED</u>	
<u>RED</u>			
MA-TTHNS-10R	10 GAUGE	MA-TTHNS-12R	12 GAUGE
MA-TTHNS-12R	12 GAUGE	MA-TTHNS-14R	14 GAUGE
<u>WHITE</u>			
MA-TTHNS-10W	10 GAUGE	MA-TTHNS-12W	12 GAUGE
MA-TTHNS-14W	14 GAUGE	<u>GREEN</u>	
<u>GREEN</u>			
MA-TTHNS-8G	8 GAUGE	MA-TTHNS-10G	10 GAUGE
MA-TTHNS-10G	10 GAUGE	MA-TTHNS-12G	12 GAUGE
MA-TTHNS-12G	12 GAUGE	MA-TTHNS-14G	14 GAUGE
MA-TTHNS-14G	14 GAUGE		

USED FOR:  
APPLIANCES  
COIL LEADS  
SWITCHBOARD PANELS  
TRANSFORMERS  
MOTOR LEADS

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

250F AND 125C MAX. TEMPERATURE 6 600 MAX. VOLTAGE  
12 & 14 GAUGE UL TYPE 3173, CSA TYPE CL 1251/AWM  
SINGLE WIRE 6 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
<u>RED</u>					
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
<u>RED</u>					
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'

**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)



**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 POUND  
TENSILE  
STRENGTH**

**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

**WIRE TIE MOUNTING PAD**

PART #	DESCRIPTION	PKG.
<b>MA03765-1</b>	1" X 1" FLEXIBLE BASE	10



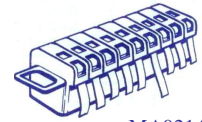
**WIRE MARKER IDENTIFICATION  
TAPE DISPENSER/BOOKS**



MA02152-2  
MA02153-2

- 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)

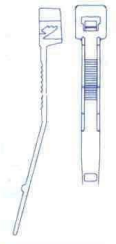
**MA-LINE oMARK-ITo**  
TOUGH VINYL MARKERS WITH ACRYLIC ADHESIVE.  
SERVICE TEMP. -50F TO 200F (-45C TO 90C)  
DISPENSER PROTECTS UNUSED LABELS



MA02148-2

**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



**PLENUM RATED WIRE TIES**

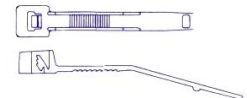
PART #	LENGTH	BUNDLE DIA.	PKG.
<b>MA07172-2</b>	4"	1/16" TO 3/4"	100
<b>MA07178-2</b>	7-1/2"	1/16" TO 1-3/4"	100
<b>MA07181-2</b>	11"	1/16" TO 3"	50
<b>MA07182-2</b>	14"	1/16" TO 4"	50



SUITABLE FOR USE IN AIR HANDLING SPACES  
TEMPERATURE RATING: -65F TO 302F (-54C TO 150C)  
MATERIAL: TEZEL®  
WEATHER RESISTANT & MEETS UL94V-V FLAMMABLE RATING

**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)



MA05007-2

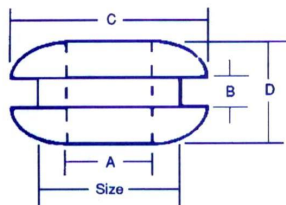
**WIRE TIE  
GUNS**



MA05008-2

- MA05007-2** LIGHTWEIGHT PLASTIC FOR SMALL WIRE TIES
- MA05008-2** HEAVY DUTY METAL FOR LARGE WIRE TIES

IDEAL FOR TENSIONING AND FOR CUTTING o 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
MA00151-1	1/4", 5/16", 3/8"	40	MA03168-1	7/8"	15
MA00152-1	7/16", 1/2", 5/8"	20	MA03169-1	1"	5
MA00153-1	21/32", 7/8", 1"	10	MA03161-2	1/4"	100
MA00154-1	1/4" THRU 1"	25	MA03162-2	5/16"	100
MA03161-1	1/4"	40	MA03163-2	3/8"	100
MA03162-1	5/16"	40	MA03164-2	7/16"	100
MA03163-1	3/8"	35	MA03165-2	1/2"	100
MA03164-1	7/16"	35	MA03166-2	5/8"	100
MA03165-1	1/2"	30	MA03167-2	21/32"	100
MA03166-1	5/8"	25	MA03168-2	7/8"	100
MA03167-1	21/32"	15	MA03169-2	1"	100



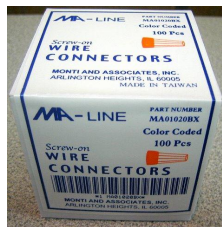
1/8" THRU 9/16" =  
3/8" WIDE

5/8" THRU 1" =  
1/2" WIDE

**NYLON CABLE CLAMPS**

PART #	DESCRIPTION	PKG	PART #	DESCRIPTION	PKG
MA00036-1	CLAMPS, GROMMETS & WIRE TIES	40	MA03149-1	1/8"	35
MA00098-1	1/8", 3/8", 7/16"	30	MA03149-2	1/8"	100
MA00099-1	5/16", 3/8", 7/16"	25	MA03150-1	3/16"	35
MA00100-1	1/2", 9/16", 5/8"	25	MA03150-2	3/16"	100
MA00101-1	3/4", 1"	10	MA03151-1	1/4"	25
MA00102-1	1/8" THRU 1"	25	MA03151-2	1/4"	100
MA03152-1	5/16"	25	MA03152-2	5/16"	100
MA03153-1	3/8"	25	MA03153-2	3/8"	100
MA03154-1	7/16"	15	MA03154-2	7/16"	100
MA03155-1	1/2"	15	MA03155-2	1/2"	100
MA03156-1	9/16"	15	MA03156-2	9/16"	100
MA03157-1	5/8"	15	MA03157-2	5/8"	100
MA03158-1	3/4"	10	MA03158-2	3/4"	100
MA03159-1	1"	10	MA03159-2	1"	100

- 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**

- MA01019-1 (20/BAG)
- MA01019-2 (50/BAG)
- MA01019-3 (100/BAG)
- MA01019BX (100/BOX)
- MA01019P (500/TUB)
- BLUE

- MA01020-1 (15/BAG)
- MA01020-2 (50/BAG)
- MA01020-3 (100/BAG)
- MA01020BX (100/BOX)
- MA01020P (250/TUB)
- ORANGE

- MA01021-1 (10/BAG)
- MA01021-2 (50/BAG)
- MA01021-3 (100/BAG)
- MA01021BX (100/BOX)
- MA01021P (250/TUB)
- YELLOW

- MA01022-1 (5/BAG)
- MA01022-2 (50/BAG)
- MA01022-3 (100/BAG)
- MA01022BX (100/BOX)
- MA01022P (100/TUB)
- RED

**COLOR CHART**

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.

**WINGED WIRE CONNECTORS**

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

**COLOR CHART**

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

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.

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

**MA06295P**



**TAN WINGED WIRE CONNECTORS**  
IN A PLASTIC TUB WITH HANDLE  
WIRE SIZE: 22-8

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



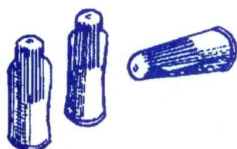
**110 PIECES ASSORTED WINGED WIRE CONNECTORS**  
IN A PLASTIC TUB WITH HANDLE

**MA10610P**



**SOFT WIRE CONNECTORS**  
SPECIAL DEVICES  
SCOTCHLOCKS®

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



**PORCELAIN WIRE CONNECTOR**  
MAX. TEMP. RATING  
UP TO 1800F (982C)



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

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

**CLOSED END CONNECTORS**

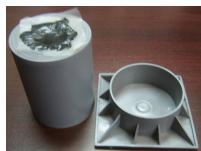
PART#	WIRE RANGE	DIMENSIONS	PKG
<b>MA02548-1</b>	16-14	7/8"	10
<b>MA02549-1</b>	22-18	5/8"	15
<b>MA02551-1</b>	12-10	5/8"	10
<b>MA03033-2</b>	22-18	5/8"	100
<b>MA03034-2</b>	12-10	5/8"	100
<b>MA03035-2</b>	16-14	7/8"	100

**GRAY HEAT PUMP STANDS**

- MA-HP3** 3" 1 PIECE  
**MA-HP6** 6" 1 PIECE
- MA-HP3-2P** 3" 2 PIECE  
**MA-HP6-2P** 6" 2 PIECE



1 PC.



2 PC.

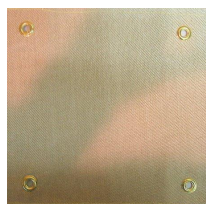


**MA-EXT4** 4" EXTENSION  
FOR 2 PIECE UNITS

EXT.

**FLAME SHIELDS**  
11" X 11-1/2"

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



**NSA'S FURNACE MOUNTING BLOCKS**  
PATENT #8262054B2

**MA-68150**





TYPE A

**GAS BALL VALVES**



TYPE C



TYPE D



TYPE B

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)

3/8" I.D. TUBE 6 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

INDOOR/OUTDOOR GAS CONNECTOR FOR RESIDENTIAL AND COMMERCIAL GAS APPLIANCE

TEMPERATURE RANGE:  
-40F TO 150F

1/2" I.D. TUBE 6 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

CSA APPROVED

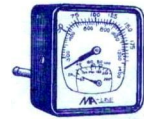
POLYMER COATING RESISTS SEA SALT, UV RAYS, HARSH CHEMICAL RESIDUE AND BUILDING PRODUCTS SUCH AS SOLDER FLUX, MURIATIC ACID, AMMONIA AND CHLORINE.

1/2" I.D. TUBE 6 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



**HEATING SYSTEM BOILER GAUGES**



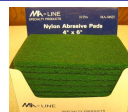
- MA-10344** 1/2" NPT 0-75 PSI  
BOTTOM MOUNT, 4" SQUARE 60F TO 260F (20C TO 120C)
- MA-10345** 1/2" NPT 0-75 PSI  
BACK MOUNT, 4" SQUARE 60F TO 260F (20C TO 120C)
- MA-10346** 1/2" NPT 0-200 PSI  
BOTTOM MOUNT, 4" SQUARE 60F TO 260F (20C TO 120C)
- MA-10347** 1/2" NPT 0-200 PSI  
BACK MOUNT, 4" SQUARE 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)

**PROTECTIVE BOOT COVERS**

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



**OXYGEN TANKS**

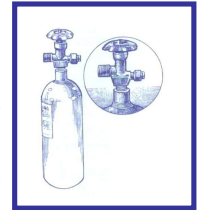
- T 002** 20 CU. FT.
- T 003** 40 CU. FT.
- T 032** 55 CU. FT.
- T 080** 80 CU. FT.

**NITROGEN TANKS**

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

**CO2 TANK**

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



**ACETYLENE TANKS**

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



**REFRIGERANT RECOVERY CYLINDERS**

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

ALL TANKS ARE MADE OF STEEL

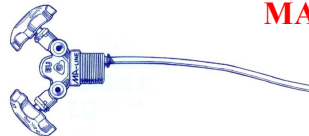
EQUIPPED WITH A LIQUID/VAPOR 5Y6 VALVE AND 3/4" OPENING.



**3 IN 1 12 OZ. CAN TAP**

**MA-49116**

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



**MA-563211**

**REFRIGERANT CYLINDER BAND HEATER**

**3054**

120V, heater draws 200 watts and has 135° preset thermostat

Fits 30lb and 50lb cylinders



**REFRIGERANT LABELS**

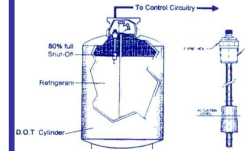
4-1/4" X 3-5/8"

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-SR407C** LIGHT BROWN
- MA-SR408A** MEDIUM PURPLE
- MA-SR409A** DESERT BEIGE
- MA-SR410A** BURGUNDY
- MA-SR417A** GREEN
- MA-SR421A** GREEN YELLOW
- 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

50 PACK

- MA-SR11-50** OSHA ORANGE
- MA-SR12-50** BLACK
- MA-SR22-50** OSHA SAFETY GREEN
- MA-SR113-50** DARK PURPLE
- MA-SR114-50** BLUE
- MA-SR134A-50** LIGHT BLUE
- MA-SR401A-50** CORAL
- MA-SR401B-50** DULL ALUMINUM
- MA-SR402A-50** BRASS
- MA-SR402B-50** ERIN GREEN
- MA-SR404A-50** CITRUS ORANGE
- MA-SR406A-50** OSHA BLUE
- MA-SR407C-50** LIGHT BROWN
- MA-SR408A-50** MEDIUM PURPLE
- MA-SR409A-50** DESERT BEIGE
- MA-SR410A-50** BURGUNDY
- MA-SR417A-50** GREEN
- MA-SR421A-50** GREEN YELLOW
- MA-SR422B-50** MEDIUM BLUE
- MA-SR422D-50** (PANTONE) BLUE
- MA-SR438A-50** BLUE JAY
- MA-SR500-50** OSHA SAFETY YELLOW
- MA-SR502-50** VIOLET
- MA-SR507-50** TEAL BLUE
- MA-SHCFC123-50** CHROME ALUMINUM
- MA-SAB1-50** ALKYL BENZENE
- MA-SMO1-50** MINERAL OIL
- MA-SPA1-50** PAG OIL
- MA-SPO1-50** POLYOL ESTER



**REFRIGERANT CYLINDER LIQUID LEVEL SWITCHES**

**MA-128500** DESIGNED FOR 30# & 50# WORTHINGTON AND MANCHESTER CYLINDERS ONLY. REFER TO OEM LIST BELOW.

- OEM LIST
- NATL REFRIGERATION PRODUCTS (NRP)
  - PROMAX N ROBINAIR
  - THERMAL ENGINEERING
  - WATSCO N PENGUIN
  - RIDGID (RIDGE TOOL)
  - JAMESKAMM (KATY INSTRUMENTS)

**MA-152540** DESIGNED FOR 26# & 48# AMTROL CYLINDERS ONLY. -BOTH ITEMS HAVE A 3-PIN BRAD HARRISON RECEPTACLE. -80% SHUT-OFF FEATURE

**SAFE FOR DISPOSAL & EVACUATION CERTIFICATION TAGS**

10 PACK

- MA-SDF1** SAFE FOR DISPOSAL
- MA-SRECT** EVACUATION TAG

50 PACK

- MA-SRECT-50** EVACUATION TAG

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



**HAND HELD SCALE & TAPE MEASURE**

**MA-HS50**

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



**MA-LINE DIGITAL SCALE**

**MA-49052B** SCALE  
**MA-49052AUS**  
AUSTRALIAN POWER CORD  
**MA-49052EPC**  
EUROPEAN POWER CORD

CAPACITY: 0-260LBS

99% ACCURACY 6 GRADUATION .01 OZ. (0.05KG) 6  
PLATFORM SIZE: 10" X 10" WITH RUBBER PAD - POWER SUPPLY  
110V, 60HZ/220V, 50HZ 6 AC POWER ADAPTOR INCLUDED 6 (1) 9V  
BATTERY INCLUDED - MEASURES LBS, OZ. & KGS

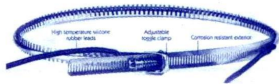
**HAND HELD DIGITAL SCALE**

**MA-49051**



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

**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"

**DIGITAL AND MECHANICAL SCALES**



- MA-8250** DIAL SCALE 1LB TO 250LB  
WITH MEMORY LOCK. 1LB GRADUATION
- MA-4010** DIGITAL SCALE 1/2LB TO 125LB  
WITH DETACHABLE CONTROL PANEL WITH 9FT.  
CORD AND LCD DISPLAY - OPERATES AC ADAPTOR  
(INCLUDED) OR 1 9V BATTERY (NOT INCLUDED) 6  
AUTO CALIBRATION - .02LB/60KG X .01  
GRADUATION
- MA-4040** DIGITAL SCALE 1/2LB TO 400LB  
WITH WALL MOUNT CONTROL PANEL WITH 6FT.  
CORD AND LCD DISPLAY - OPERATES AC ADAPTOR  
(INCLUDED) OR 1 9V BATTERY (NOT INCLUDED) 6  
AUTO CALIBRATION - 1/2LB/.2KG GRADUATION

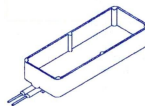
**REFRACTOMETERS**



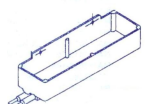
- MA-REF700** OIL
- MA-REF401F** GLYCOL (F)
- MA-REF401C** GYLCOL (C)

-This handheld refractometer, **MA-REF700**, is easy to use and accurately measures the mineral oil in a polyolester (POE) lubricant.  
**SPECIFICATIONS:** Range1.435-1.520nD (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.

**CONDENSATE PANS**



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



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

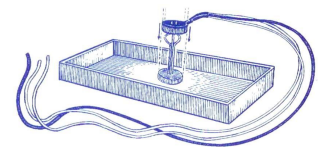
- MA-CP35-120** 38OZ. CAPACITY, 160W,120V
- MA-CP35-240** 38OZ. CAPACITY, 160W,220V
- MA-CP52-120** 50OZ. CAPACITY, 160W,115V
- MA-CP52-240** 50OZ. CAPACITY, 160W,220V

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. Ther units heating element is sealed in 1/4" bundyweld tubing.

**UNIVERSAL DRAIN HEATER**

**MA-32950**

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



**DRAIN PAN SAFETY SWITCH**

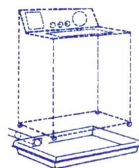


**MA-J100**

**SPECIFICATIONS:**  
72" WIRE LEADS, 4 AMP RATING, 125/250VAC, UL RECOGNIZED

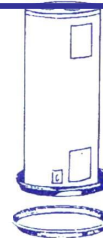
The MA-J100 Drain Pan Safety Switch is a water-level sensing device deigned to shut down air conditioning or refrigeration, in the event of a high water accumulation in the pan or reservoir. The switch is wired closed from the factory but can be field changed to open. The switch assembly comes with 72" wire leads and installation hardware.

**PANS**



MA-WP1

**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.



- MA-WHP22
- MA-WHP24
- MA-WHP26
- MA-WHP28
- MA-WHP32

AUXILIARY CONDENSATE PANS

- MA-CP1** 28-3/4" X 33-3/4"
  - MA-CP2** 17" X 39-3/4"
- 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.
- WASHING MACHINE PAN
- MA-WP1** 29" - 27" ID DIA.



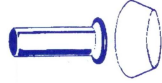
**PLASTIC "Y" STRAINERS**

øYö 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

**DELTRIN SLEEVE AND BRASS INSERT**



**MA-DS4** 1/4" DELTRIN SLEEVE FOR 1/4" OD PLASTIC TUBING (25/PKG)

**MA-DS6** 3/8" DELTRIN SLEEVE FOR 3/8" OD PLASTIC TUBING (25/PKG)

**MA-B14** 1/4" BRASS INSERT 1/4" OD PLASTIC TUBING (25/PKG)

**MA-B16** 3/8" BRASS INSERT FOR 3/8" OD PLASTIC TUBING (25/PKG)

**MA02525-2 HEAT GUN ONLY**

**MA02525-3 HEAT GUN KIT**

INCLUDES: HEAT GUN, SCRAPER, 3) ASSORTED SCRAPING STYLES AND 4 ASSORTED BLOWER NOZZLES

**MA02525-EUKIT**

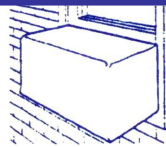
**EUROPEAN HEAT GUN KIT**

SAME AS ABOVE WITH EUROPEAN CONTINENTAL PLUG



**AC COVERS**

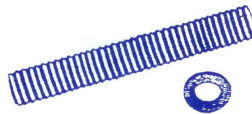
**MA-AC14** 34"DIA. X 30"H ROUND



**MA-WU17** 27"W X 18"H X 18"D STANDARD WINDOW

**MA-WU21** 28"W X 20"H X 30"D LARGE WINDOW

**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 USS FLAT WASHERS FOR THREADED ROD

STEEL BRIGHT ZINC PLATED HEX NUTS FOR THREADED ROD

**MA-N14** 1/4" 6 20

**MA-N516** 5/16" 6 18

**MA-N38** 3/8" - 16

**MA-N12** 1/2" - 13

**MA-W14** 1/4"

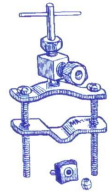
**MA-W516** 5/16"

**MA-W38** 3/8"

**MA-W12** 1/2"



**ICEMAKER & HUMIDIFIER HOOK-UP KIT**



**MA-VIMK3** SELF PIERCING SADDLE VALVE MEETS NSF REQUIREMENTS

**MA-VIMK4** 1/4" DRILL TYPE SADDLE VALVE MEETS NSF REQUIREMENTS

**MA-VIMK2** SELF-TAPPING SADDLE VALVE 6 CLAMP KIT 6 DOES NOT MEET NSF REQUIREMENTS

**MA-IMK1** HUMIDIFIER KIT 6 INCLUDES SELF PIERCING SADDLE VALVE, 25øOF 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.



**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 unopened 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

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

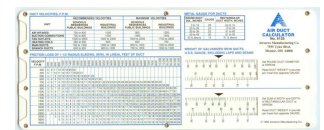
**PERMANENT MARKING PENS**

**MA-84002** BROAD TIP (12/BOX)



**AIR DUCT CALCULATOR**

**5125**



Handy size calculator uses only three sides to give all information needed when figuring duct size.



**EXPANDING POLYURETHANE  
FOAM SEALANT  
CLOSED CELL FOAM**



- MA-1-12X** SINGLE COMPONENT 12OZ. (12/CS)
- MA-11-12X** TWO COMPONENT 12 BD.FT. (12/CS)

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.

**BLACK FLASHING**

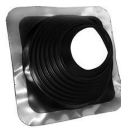


- MA-BFC** 12.8 OZ CARTRIDGE (12/CS)
- MA-BF1** 1GALLON CAN (4/CS)

ALL WEATHER-NEVER HARDENS  
MEETS FEDERAL SPECIFICATIONS #SS-C-153C

**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.



**CAULK  
GUNS**  
ALL STEEL



- MA-101** EZ THRUST CAULK GUN
- MA-102** HEAVY DUTY DELUXE CAULK GUN

**SILICONE CAULK  
AND HIGH TEMP.  
SILICONE CAULK**



- MA-SSC-CK** CLEAR CAULK (12/CS)
- 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.

**FURNACE CEMENT**

- MA-HT1** 1 GAL. (4/CS)
- MA-HT64** 64OZ. (6CS)



ASBESTOS FREE, GRAY, HIGH HEAT CEMENT  
TEMPERATURE RATING: 0F TO 3000F

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)

**PVC  
CEMENT**

REGULAR



ALL PURPOSE



ALL WEATHER



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**

- 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, Cylolac, Polypropylene, iron, steel or copper threads. **Do not use on oxygen, fluorine, or molten metal lines.**



**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.



- MA-322-2**  
2" X 50 YARDS (24/CASE)
- MA-322-3**  
3" X 50 YARDS (16/CASE)



**ALUMINUM FOIL TAPE**

**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)

- MA-C950** (48/CASE)  
1/2" X 520"
- MA-C950-4** (4/PKG)  
1/2" X 520"



**TEFLON THREAD SEAL TAPE**

**FEATURES:**  
MA-LINE OFFERS MORE VALUE WITH OUR TEFLON BRAND, HIGH QUALITY SEAL TAPE.

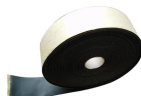
- MA-CT1** (12/CASE)  
1/8" X 2" X 30'



**CORK TAPE**

**FEATURES:**  
ADHERES FIRMLY TO ALL METALS & PREVENTS CONDENSATION AND DRIPPING & CAN BE USED ON HOT OR COLD PIPES

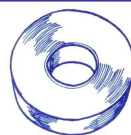
- MA-FT1** (12/CASE)  
1/8" X 2" X 30'



**FOAM TAPE**

**FEATURES:**  
CAN BE USED ON HOT AND COLD PIPES & PREVENTS CONDENSATION AND DRIPPING & WORKS WELL AROUND VALVES AND FITTINGS

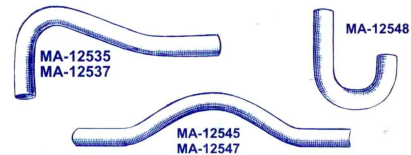
- MA-398** SILVER  
2" X 60 YARDS (24/CASE)
- MA-398BL** BLACK  
2" X 60 YARDS (24/CASE)



**DUCT TAPE**

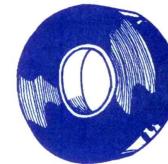
**FEATURES:**  
INDUSTRIAL GRADE & 8 MIL THICKNESS & ADHESIVE NATURAL RUBBER

- MA-12535** 1/2" 600PSI PVC P-TRAP
- MA-12537** 3/4" 480PSI PVC P-TRAP
- MA-12545** 1/2" 600PSI PVC R-TRAP
- MA-12547** 3/4" 480PSI PVC R-TRAP
- MA-12548** 3/4" 480PSI PVC J-TRAP



**CONDENSATE PVC TRAPS**

- MA-C6408**  
3/4" X 60" (10/PKG)
- MA03364-2**  
3/4" X 60" (3/PKG)



**MA-LINE ELECTRICAL TAPE**

**3M PREMIUM ELECTRICAL TAPE & 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

MADE IN USA & UL & CSA LISTED  
3/4" X 66' & UV RESISTANT  
10 ROLLS PER CARTON

**3M SPLICING TAPE**

- MA-C2242** 3/4" X 15' ROLL 24/CASE

**FEATURES:**  
ALL PURPOSE RUBBER TAPE USED FOR ALL VOLTAGE SPLICING, JACKETING AND GENERAL INSULATING



MADE IN USA

**RUBBER STRAPS**



The EPDM Rubber Tie Down rubber is oil, ozone and chemical resistant. It will not fade in ultraviolet 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



**POLYPROPYLENE ROPE**

COLOR: YELLOW

TENSILE STRENGTH:  
1/4" DIA. 1250 LBS.  
3/8" DIA. 2700 LBS.

- 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.

**MOTOR MOUNTING BRACKET**

INCLUDES: GROMMETS AND EYELETS



- MA-FM50** 5" TORSION BRACKET
- MA-FM55** 5.5" TORSION BRACKET

For use with direct Drive Blower Motors

**MOTOR MOUNTING BRACKET**

INCLUDES: GROMMETS AND EYELETS



- MA-FM554A** 5-5/8" TORSION BRACKET WITH 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

**LUG MOUNTING BRACKETS**

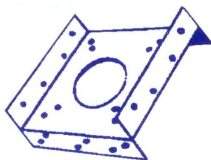
- MA80293** FOR 5.5" MOTORS



**RHEEM MOUNTING BRACKET**

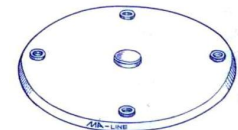
- MA60306K**

Replaces cables used to mount motors on Rheem Condensing units



**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



**RUBBER GROMMET KIT**

- MA60049K**  
Used for 3/4" slots  
Screws & sleeves included



**COMPRESSOR MOUNTING GROMMETS & SLEEVES**

4/PKG

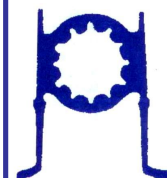
- MA-9001** 1 TO 5 TONS
- MA-9002** 7-1/2 TO 10 TONS
- MA-9003** 12 TO 24 TONS



**MOUNTING BRACKET**

- MA68004**

Adjustable bracket for unit bearing motors.



**3 PINT HAND PUMP SPRAYER**

- MA-41500**

Adjustable spray nozzle, trigger may be locked for continuous operation, chemical resistant.



**PUMP STYLE PLASTIC SPRAYERS**

- MA-00106** 1 GALLON
- MA-00205** 2 GALLON
- MA-00304** 3 GALLON

**FEATURES:**  
COMPRESSION SPRAYER  
ADJUSTABLE NOZZLE  
CORROSION RESISTANT  
DURABLE EXTENSION WAND



**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.





**FAN BLADE PITCH GAUGE**

**MA-PG1**

**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.



**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

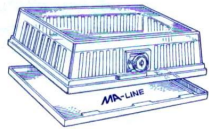


PART#	ROTATION	PITCH	SHAFT SIZE	#OF BLADES	DIA. INCHES
MA-CW300	CW	32	1/8"	4	3
MA-CW301	CW	32	3/16"	4	3
MA-CW401	CW	27	1/8"	5	4
MA-CCW403	CCW	27	1/8"	5	4
MA-CCW404	CCW	27	3/16"	5	4
MA-CW406	CW	35	1/8"	4	4
MA-CW501	CW	22	3/16"	5	5
MA-CW502	CW	22	1/4"	5	5
MA-CW503	CW	22	5/16"	5	5
MA-CCW504	CCW	22	3/16"	5	5
MA-CCW505	CCW	22	1/4"	5	5
MA-CCW550	CCW	22	3/16"	4	5-1/2
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
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

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**



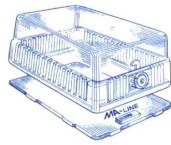
INCLUDES:  
SOLID BASE  
&  
RING BASE

**MA-BTGDK** CLEAR PLASTIC  
**MA-BTGDDB** BRONZE PLASTIC  
**MA-F336** UNIVERSAL KEY

INSIDE DIMENSIONS:  
DUAL SOLID BASE:  
4-1/4"H x 7-5/8"W  
DUAL RING BASE:  
4-1/8"H x 7-1/16"W

**THERMOSTAT COVERS**

**DELUXE SERIES**



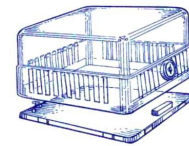
INCLUDES:  
SOLID BASE  
&  
RING BASE

**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

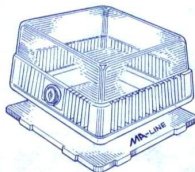
INSIDE DIMENSIONS:  
SOLID BASE:  
3-1/2"H x 3-7/8"W x 2-1/2"D

**MEDIUM SIZE**



**MA-BTGK**  
INCLUDES:  
SOLID & RING BASE

**MA-BTGKM**  
INCLUDES  
SOLID BASE ONLY



**MA-BTGK** CLEAR PLASTIC  
**MA-BTGKM** BEIGE METAL  
**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-BTGUM  
MA-BTGUWM



**MA-BTGUK2** CLEAR PLASTIC  
INCLUDES A RING AND SOLID BASE  
**MA-BTGUM** BEIGE, METAL  
INCLUDES SOLID BASE  
**MA-BTGUWM** BEIGE, METAL  
INCLUDES RING BASE  
**MA-F336** UNIVERSAL KEY

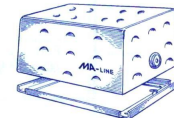
PLASTIC INSIDE DIMENSIONS:

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

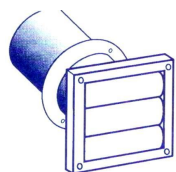
**TAMPER PROOF SERIES**



**MA-BTG54VL** BEIGE,  
METAL, SOLID BASE  
**MA-BTG54VLW** BEIGE,  
METAL, RING BASE  
**MA-F336** UNIVERSAL KEY

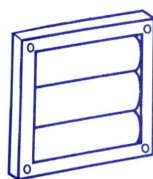
INSIDE DIMENSIONS:  
SOLID BASE:  
6-1/4"H x 4-3/4"W x 3"D  
RING BASE:  
6"H x 3-13/16"W x 3-1/8"D

The Tamper Proof Series is strong and completely tamper proof. This strong thermostat cover can be mounted horizontal or vertical.



**LOUVERED VENT HOOD**  
INCLUDES HOOD,  
ALUMINUM PIPE  
& COLLAR

ASSEMBLED  
**MA-SVHAW4** 4" WHITE  
**MA-SVHAB4** 4" BROWN  
UNASSEMBLED  
**MA-SVHUW4** 4" WHITE  
**MA-SVHUB4** 4" BROWN

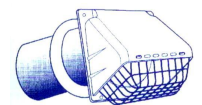


**LOUVERED VENT HOOD**

WITHOUT BIRD GUARD  
**MA-HS4W** 4" WHITE  
**MA-HS4B** 4" BROWN  
WITH BUILT IN BIRD GUARD  
**MA-HSB4W** 4" WHITE  
**MA-HSB4B** 4" BROWN

**DRYER-VENT WIDE MOUTH HOOD**

INCLUDES HOOD,  
ALUMINUM PIPE  
& COLLAR



ASSEMBLED  
**MA-RVHAW4** 4" WHITE  
**MA-RVHAB4** 4" BROWN  
UNASSEMBLED  
**MA-RVHUW4** 4" WHITE  
**MA-RVHUB4** 4" BROWN

**UNIVERSAL BIRD & PEST GUARD**

FITS OVER ANY 3" OR 4" VENT HOOD



**MA-UBGWB** WHITE  
**MA-UBGBB** BROWN



**CLAMPS**

**MA-MSC4100**  
4" SPRING TENSION



**MA-MC450**  
4" METAL WORM DRIVE

**METALLIC DUCT**

-2-PLY WITH REINFORCED SCRIM  
-UL LISTED 181A CLASS 1 AIR CONDITIONER



**MA-FLS0325** 3" X 25'  
**MA-FLS0425** 4" X 25'  
**MA-FLS0450** 4" X 50'

**SEMI RIDGID ALUMINUM DUCT (SEMI-FLEXIBLE)**



**MA-A038** 3" X 8'  
**MA-A048** 4" X 8'

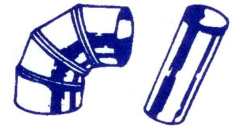
**AIR DEFLECTOR**

**MA-99** MAGNET ADJUSTABLE 10"-14"  
**MA-51** WALL REGISTER ADJUSTABLE 10"-16"



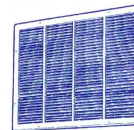
**ALUMINUM PIPE & ELBOWS**

**MA-DE904** 4" X 90°  
**MA-DP244** 4" X 24"

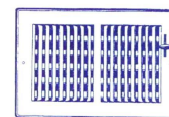


**REGISTERS, GRILLS AND DIFFUSERS**

PART#	OPENING SIZE (INCHES)	FREE AREA SQ. IN.	PER CTN	OVERALL SIZE (INCHES)
<b>372W SERIES RETURN GRILL</b>				
<b>372W8X8</b>	8 X 8	43	10	9-7/8 X 9-7/8
<b>372W10X4</b>	10 X 4	26	10	11-7/8 X 5-7/8
<b>372W10X6</b>	10 X 6	39	10	11-7/8 X 7-7/8
<b>372W10X8</b>	10 X 8	52	10	11-7/8 X 9-7/8
<b>372W12X4</b>	12 X 4	31	10	13-7/8 X 5-7/8
<b>372W12X6</b>	12 X 6	47	10	13-7/8 X 7-7/8
<b>372W12X8</b>	12 X 8	64	10	13-7/8 X 9-7/8
<b>372W12X12</b>	12 X 12	96	10	13-7/8 X 13-7/8
<b>372W14X6</b>	14 X 6	56	10	15-7/8 X 7-7/8
<b>372W14X8</b>	14 X 8	75	10	15-7/8 X 9-7/8
<b>372W14X14</b>	14 X 14	132	10	15-7/8 X 15-7/8
<b>372W14X20</b>	14 X 20	182	10	15-7/8 X 21-7/8
<b>372W20X20</b>	20 X 20	262	5	21-7/8 X 21-7/8
<b>372W30X6</b>	30 X 6	118	5	31-7/8 X 7-7/8
<b>382W SERIES SIDEWALL REGISTER</b>				
<b>382W8X4-R</b>	8 X 4	18	10	9-1/2 X 5-1/2
<b>382W8X6-R</b>	8 X 6	29	10	9-1/2 X 7-1/2
<b>382W8X8-R</b>	8 X 8	40	10	9-1/2 X 9-1/2
<b>382W10X4-R</b>	10 X 4	24	10	11-1/2 X 5-1/2
<b>382W10X6-R</b>	10 X 6	38	10	11-1/2 X 7-1/2
<b>382W10X8-R</b>	10 X 8	52	10	11-1/2 X 9-1/2
<b>382W12X4-R</b>	12 X 4	30	10	13-1/2 X 5-1/2
<b>382W12X6-R</b>	12 X 6	46	10	13-1/2 X 7-1/2
<b>382W12X8-R</b>	12 X 8	63	10	13-1/2 X 9-1/2
<b>382W14X4-R</b>	14 X 4	35	10	15-1/2 X 5-1/2
<b>382W14X6-R</b>	14 X 6	55	10	15-1/2 X 7-1/2
<b>382W14X8-R</b>	14 X 8	75	10	15-1/2 X 9-1/2
<b>413B SERIES FLOOR DIFFUSER BROWN</b>				
<b>413B2X10-R</b>	10 X 2-1/4	13	10	11-5/16 X 3-9/16
<b>413B4X10-R</b>	10 X 4	25	10	11-5/16 X 5-5/16
<b>413B2X12-R</b>	12 X 2-1/4	16	10	13-5/16 X 3-9/16
<b>413B4X12-R</b>	12 X 4	30	10	13-5/16 X 5-5/16



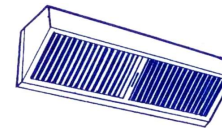
372 SERIES



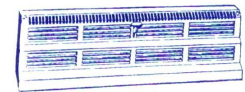
382 SERIES



1800B SERIES



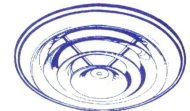
3015 SERIES



3018 SERIES



413 SERIES



1500 SERIES

PART#	OPENING SIZE (INCHES)	FREE AREA SQ. IN.	PER CTN	OVERALL SIZE (INCHES)
<b>3015W SERIES DIFFUSER</b>				
<b>3015W15-R</b>	15	38	12	15
<b>3018W SERIES DIFFUSER</b>				
<b>3018W18-R</b>	18	33	12	18
<b>1500W SERIES CEILING DIFFUSER WHITE</b>				
<b>1500W6</b>	6	23	10	10
<b>1500W8</b>	8	40	10	12
<b>1500W10</b>	10	61	10	14
<b>1800B SERIES ROUND DAMPER</b>				
<b>1800B6</b>	6	6	10	6-3/4
<b>1800B8</b>	8	8	10	9-1/2
<b>1800B10</b>	10	10	10	11-1/2

**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	5	10	14	125	5-1/4	.65	3/8 OD	1/2 OD	1/2 OD	9
<b>MALS-105A</b>	1050	5	16-1/2	14	125	5-1/4	.65	3/8 OD	1/2 OD	1/2 OD	12
<b>MALS-135A</b>	1350	5	20-1/2	14	225	(2) 5-1/4	1.30	3/8 OD	1/2 OD	1/2 OD	16
<b>MALS-190A</b>	1700	4-1/2	24	14-1/2	225	(2) 5-1/4	1.30	1/2 OD	1/2 OD	1/2 OD	21
<b>MALS-240A</b>	2400	6-5/8	24	16-1/2	300	8	.73	1/2 OD	1/2 OD	1/2 OD	24
<b>MALS-320A+</b>	3000	4-1/2	40	14-1/2	350	(3) 5-1/4	1.95	1/2 OD	1/2 OD	1/2 OD	33
<b>MALS-410A+</b>	4300	4-1/2	58-3/8	14-1/2	475	(4) 5-1/4	2.60	1/2 OD	1/2 OD	1/2 OD	44

**COATED COILS**

<b>MALS-55A-P</b>	550	5	10	14	125	5-1/4	.65	1/2 OD	1/2 OD	1/2 OD	9
<b>MALS-105A-P</b>	1050	5	16-1/2	14	125	5-1/4	.65	1/2 OD	1/2 OD	1/2 OD	12
<b>MALS-135A-P</b>	1350	5	20-1/2	14	225	(2) 5-1/4	1.30	1/2 OD	1/2 OD	1/2 OD	16
<b>MALS-190A-P</b>	1700	4-1/2	24	14-1/2	225	(2) 5-1/4	1.30	1/2 OD	1/2 OD	1/2 OD	21

**STANDARD 115/60/1 (230/60/1 OPTIONAL)**

\* Low silhouette design for maximum use of shelf area \* Textured aluminum cabinet \* Moisture-proof wiring harness \* Full-hard temper aluminum fins and seamless copper tubing \* Drain pan and bottom panel are on piece for easy servicing \* Adapts easily as a replacement unit or original equipment \* Durable poly carbonate fans and fan guards MALS-55A, MALS-105A, and MALS-135A (also applies to the coated coils) \* Aluminum fans and plated steel fan guards MALS-190A, MALS-240A, MALS-320A, and MALS-410A(also applies to the coated coils) \* Thermally protected, permanently lubricated motors \* Expansion valve mounts inside cabinet \* UL recognized ó NSF approved \* + Indicates that external equalized expansion valve is recommended (external equalizer tube field installed)



**LOW TEMPERATURE – ELECTRIC DEFROST**

PART#	BTU/HR 10° T.D.	DIMENSIONS			CFM	FAN DIA.	MTR AMPS	HEATERS AMPS - WATTS	CONNECTIONS			APPROX. SHIP WT.
		H.	W.	D.					INLET	SUCTION	DRAIN	
<b>MALS-50E1</b>	500	5	10	14	125	5-1/4	.65	1.80-215	3/8 OD	1/2 OD	1/2 OD	10
<b>MALS-95E1</b>	950	5	16-1/2	14	125	5-1/4	.65	4.20-480	3/8 OD	1/2 OD	1/2 OD	13
<b>MALS-125E1</b>	1250	5	20-1/2	14	200	(2) 5-1/4	1.30	4.31-495	3/8 OD	1/2 OD	1/2 OD	17
<b>MALS-160E1</b>	1600	5	24-1/2	15	225	(2) 5-1/4	1.30	5.05-580	3/8 OD	1/2 OD	1/2 OD	19
<b>MALS-210E1+2100</b>	2100	6-5/8	24	16-1/2	300	8	.73	7.52-865	1/2 OD	1/2 OD	1/2 OD	24
<b>MALS-210E2+2100</b>	2100	6-5/8	24	16-1/2	300	8	.45	3.83-880	1/2 OD	1/2 OD	1/2 OD	24
<b>MALS-280E1+2800</b>	2800	8	30-5/8	20-3/8	400	10	.73	9.80-1125	1/2 OD	5/8 OD	5/8 MF	38
<b>MALS-280E2+2800</b>	2800	8	30-5/8	20-3/8	400	10	.45	4.90-1125	1/2 OD	5/8 OD	5/8 MF	38
<b>MALS-360E2+3600</b>	3600	7-1/2	38	18-1/4	600	(2) 8	.90	6.10-1400	1/2 OD	5/8 OD	5/8 MF	47
<b>MALS-540E2+5400</b>	5400	7-1/2	50	18-1/4	800	(3) 8	1.35	8.00-1850	1/2 OD	5/8 OD	5/8 MF	145

**E1 MODELS 115/60/1**

**E2 MODELS 230/60/1**

\* Low silhouette design for maximum use of shelf area \* High quality, easily replaceable tubular heater with moisture proof, odor free, molded neoprene sealed ends \* Positive contact between heaters and drain pan eliminates freeze-up \* Defrost termination switch and fan delay control insures defrost without overheating \* Durable polycarbonate fans and fan guards MALS-50E, MALS-95E1, MALS-125E1 and MALS-160E1 \* Aluminum fans and plated steel fan guards MALS-210E1, MALS-210E2, MALS-360E2, and MALS-540E2 \* UL recognized ó NSF approved \* + Indicates external equalized expansion valve is recommended (external equalizer Tube field installed)



**MEDIUM TEMPERATURE – AIR DEFROST**

PART#	BTU/HR 10° T.D.	DIMENSIONS			CFM	FAN DIA.	MTR 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+3000</b>	3000	11	23-3/8	16	500	10	.75	1/2 OD	1/2 OD	1/2 OD	27

**STANDARD 115/60/1 (230/60/1 OPTIONAL)**

\* Compact unit for ceiling mounting \* Drain pan and bottom panel are one piece for easy servicing \* Tectured aluminum cabinet \* Exclusive öOff-Centerö construction reduces the number of welded return bends. öWhere there are no joints, there are no leaks.ö \* Full-hard temper aluminum fins and seamless copper tubing \* Adapts easily as a replacement unit or original equipment \* Aluminum fans and plated steel fan guards \* Thermal protected, permanently lubricated motors \* Moisture-proof wiring harness \*Expansion valve mounts inside cabinet \* UL recognized ó NSF approved \* + Indicates external equalized expansion valve is recommended (external equalizer tube field installed)



UNIT COOLERS FOR REFRIGERATED CABINETS

MEDIUM TEMPERATURE – AIR DEFROST

PART#	BTU/HR 10° T.D.	DIMENSIONS			CFM	FAN DIA.	MTR AMPS	CONNECTIONS			APPROX. SHIP WT.
		H.	W.	D.				INLET	SUCTION	DRAIN	
<b>MAMJ-40</b>	400	7	13-5/8	8	125	5-1/4	.65	3/8 OD	3/8 OD	1/2 OD	7
<b>MAMJ-70</b>	700	7	13-5/8	8	125	5-1/4	.65	3/8 OD	3/8 OD	1/2 OD	9
<b>MAMJ-90</b>	900	7	13-5/8	9	125	5-1/4	.65	3/8 OD	3/8 OD	1/2 OD	10
<b>MAMJ-120</b>	1200	7	20-5/8	9	250	(2) 5-1/4	1.30	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	5-1/4	.65	3/8 OD	3/8 OD	1/2 OD	7
<b>MAMJ-70-P</b>	700	7	13-5/8	8	125	5-1/4	.65	3/8 OD	3/8 OD	1/2 OD	9
<b>MAMJ-90-P</b>	900	7	13-5/8	9	125	5-1/4	.65	3/8 OD	3/8 OD	1/2 OD	10
<b>MAMJ-120-P</b>	1200	7	20-5/8	9	250	(2) 5-1/4	1.30	3/8 OD	3/8 OD	1/2 OD	15



\* Compact unit for ceiling or wall mount \* Front panel and drain pan are on piece for easy servicing \* Textured aluminum cabinet \* Exclusive δOff-Centerδ construction reduces the number of welded return bends. δWhere there are no joints, there are no leaks.δ \* Full-hard temper aluminum fins and seamless copper tubing \* Adapts easily as a replacement unit or original equipment \* Durable poly carbonate fans and fan guards \* Thermally protected, permanently lubricated motors \* Moisture-proof

MEDIUM TEMPERATURE – AIR DEFROST

PART#	BTU/HR 10° T.D.	DIMENSIONS			CFM	FAN DIA.	MTR AMPS	CONNECTIONS			APPROX. SHIP WT.
		H.	W.	D.				INLET	SUCTION	DRAIN	
<b>MATM-100</b>	1000	4-5/8	20-3/8	16	125	5-1/4	.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) 5-1/4	1.30	3/8 OD	3/8 OD	1/2 OD	15
<b>MATM-180</b>	1800	4-5/8	20-3/8	16	250	(2) 5-1/4	1.30	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	5-1/4	.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) 5-1/4	1.30	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) 5-1/4	1.30	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



\* Low silhouette design for maximum use of shelf area \* Two-way air discharge for maintaining uniform box temperature \* Textured aluminum cabinet \* Exclusive δOff-Centerδ construction reduces the number of welded joints. δWhere there are no joints, there are no leaks.δ \* Full-hard temper aluminum fins and seamless copper tubing \* Moisture-proof wiring harness \* Adapts easily as a replacement unit or original equipment \* Durable poly carbonate fans and fan guards MATM100, MATM-135, MATM180 (also applies to the coated coils) \* Aluminum fan and plated steel fan guard MATM-250 (also applies to the coated coils) \* Thermally protected, permanently lubricated motors \* Expansion valve mounts inside cabinet \* UL Recognized δ NSF approved \*

UNIT COOLERS FOR REFRIGERATED ROOMS

MEDIUM TEMPERATURE – AIR DEFROST

PART#	BTU/HR 10° T.D.	DIMENSIONS			CFM	FAN DIA.	MTR AMPS	HEATERS AMPS-WATTS	CONNECTIONS			APPROX. SHIP WT.
		H.	W.	D.					INLET	SUCTION	DRAIN	
<b>MAPLP-380</b>	3800	13-1/2	22-1/2	12-1/4	600	10	1.70		1/2 OD	5/8 OD	1 FPT	35
<b>MAPLP-500</b>	5000	13-1/2	27	12-1/4	600	10	1.70		1/2 OD	7/8 OD	1 FPT	38
<b>MAPLP-600</b>	6000	13-1/2	33	12-1/4	600	10	1.70		1/2 OD	7/8 OD	1 FPT	46
<b>MAPLP-750</b>	7500	13-1/2	38	12-1/4	1200	(2)10	3.40		1/2 OD	7/8 OD	1 FPT	55
<b>MAPLP-1000</b>	10000	13-1/2	45	12-1/4	1200	(2)10	3.40		1/2 OD	7/8 OD	1 FPT	67
<b>MAPLP-1500</b>	15000	13-1/2	63	12-1/4	1800	(3)10	5.10		1/2 OD	7/8 OD	1 FPT	90
<b>MAPLP-2000</b>	20000	13-1/2	81	12-1/4	2400	(4)10	6.80		1/2 OD	1-1/8 OD	1 FPT	120
<b>MAPLP-2500</b>	25000	13-1/2	99	12-1/4	3000	(5)10	8.50		1/2 OD	1-1/8 OD	1 FPT	155
<b>MAPLP-3000</b>	30000	13-1/2	117	12-1/4	3600	(6)10	10.20		1/2 OD	1-1/8 OD	1 FPT	180

\* For medium temperature walk-in storage rooms \* Low silhouette height of only 13-1/2" \* Flush ceiling mount \* UL Recognized δ NSF approved \* Removable side panel and hinged drain pan for easy servicing \* Textured aluminum cabinet \* Aluminum fins and seamless copper tubing \* Adapts easily as a replacement unit or original equipment \* Aluminum fan blades and plated steel fan guards \* Thermally protected, permanently lubricated motors \* Factory wired for convenience \* Junction box outside cabinet for up \*

LOW TEMPERATURE – ELECTRIC DEFROST

PART#	EVAP. SUC. TEMP. F				DIMENSIONS			CFM	FAN DIA.	MTR AMPS	HEATERS AMPS-WATTS	CONNECTIONS			APPROX. SHIP WT.
	+20°	-10°	-20°	-30°	H.	W.	D.					LIQUID	SUCTION	DRAIN	
<b>MAPLP-430E</b>	5000	4400	4300	4000	13-1/2	27	12-1/4	600	10	.45	4.48-1030	1/2 OD	5/8 OD	1 FPT	38
<b>MAPLP-640E</b>	7500	6600	6500	5900	13-1/2	38	12-1/4	1200	(2)10	.90	6.24-1435	1/2 OD	7/8 OD	1 FPT	55
<b>MAPLP-860E</b>	10000	8800	8600	7900	13-1/2	45	12-1/4	1200	(2)10	.90	7.24-1665	1/2 OD	7/8 OD	1 FPT	67
<b>MAPLP-1290E</b>	15000	13200	12900	11900	13-1/2	63	12-1/4	1800	(3)10	1.35	12.35-2840	1/2 OD	7/8 OD	1 FPT	90
<b>MAPLP-1720E</b>	20000	17600	17200	15800	13-1/2	81	12-1/4	2400	(4)10	1.80	16.41-3775	1/2 OD	1-1/8 OD	1 FPT	120
<b>MAPLP-2150E</b>	25000	22000	21500	19800	13-1/2	99	12-1/4	3000	(5)10	2.25	18.84-4330	1/2 OD	1-1/8 OD	1 FPT	155
<b>MAPLP-2580E</b>	30000	26400	25800	23700	13-1/2	117	12-1/4	3600	(6)10	2.70	21.20-4875	1/2 OD	1-1/8 OD	1 FPT	180

Standard 230/60/1 External equalized expansion valve required (1/4" dia. External equalizer tube provided

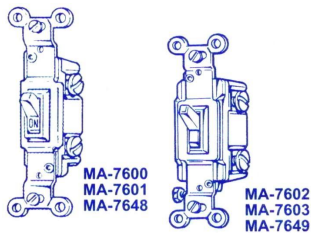
\* For low-temperature walk-in storage rooms \* Low silhouette height of only 13-1/2" \* Heaters are UL approved, moisture proof, odor and taste free, wit molded neoprene sealed ends \* Adapts easily as a replacement unit or original equipment \* Flush ceiling mount \* Serpentine tubular heating elements are evenly spaced for ideal defrosting \* Defrost termination switch and fan delay control insures defrost without over heating \* UL listed δ NSF approved \*





**QUIET SWITCHES**

Horsepower Rated for Motor Loads  
 Rated - 15A  
 120V AC 1/2HP  
 Max. Amps - 12A  
**UL APPROVED ONLY**



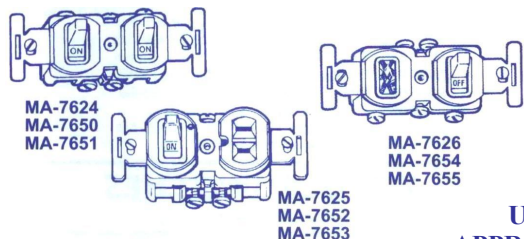
SINGLE POLE, 15A, 115V

- MA-7600** BROWN
- MA-7601** IVORY
- MA-7648** WHITE

THREE WAY, 15A, 115V

- MA-7602** BROWN
- MA-7603** IVORY
- MA-7649** WHITE

**DUPLEX SWITCHES**



**UL APPROVED ONLY**

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

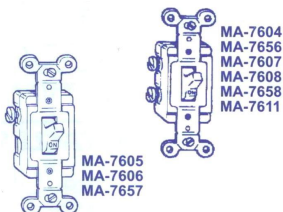
- MA-7625** IVORY **MA-7652** BROWN **MA-7653TR** WHITE

SINGLE POLE, 15A, 120-277V, AC SWITCH, W/PILOT LIGHT 120V

- MA-7626** IVORY **MA-7654** BROWN **MA-7655** WHITE

**HEAVY DUTY QUIET SWITCHES**

Horsepower Rated for Motor Loads  
 Rated - 120V AC - 240V AC - Max. Amps  
 15A - 1/2HP - 1HP - 12A  
 20A - 1HP - 2HP - 16A



DOUBLE POLE, 20A, 120-277V, AC SWITCH

- MA-7604** BROWN
- MA-7656** WHITE
- MA-7611** IVORY

THREE WAY, 20A, 120-277V, AC SWITCH

- MA-7607** BROWN
- MA-7608** IVORY
- MA-7658** 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**

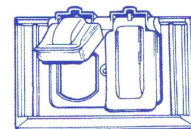
**MA-1257** FLUSH MOUNT 30A, 125/250V NEMA 14-30 RECEPTACLE, BLACK, 4 PRONG  
**UL & CSA APPROVED**

**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:  
 20A AT 125VAC/ 10A AT 250VAC  
 3/4HP 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 RATED:  
 20A AT 125VAC/ 10A AT 250VAC  
 1.5HP AT 125/250VAC

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

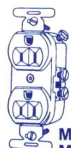
- MA-7612** SIDE WIRE, 2P, 3W GROUNDING 15A, 125V, NEMA 5-15R, DUPLEX RECEPTACLE, BROWN **UL & CSA APPROVED**
- MA-7613** SIDE WIRE, 2P, 3W GROUNDING 15A, 125V, NEMA 5-15R, DUPLEX RECEPTACLE, IVORY **UL & CSA APPROVED**
- MA-7659** SIDE WIRE, 2P, 3W GROUNDING 15A, 125V, NEMA 5-15R, DUPLEX RECEPTACLE, 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**



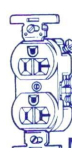
MA-7614  
MA-7615  
MA-7662



MA-7514  
MA-7515  
MA-7661



MA-7612  
MA-7613  
MA-7659



MA-7617  
MA-7618  
MA-7660

### 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

### STRAIGHT BLADE PLUGS, CONNECTORS, & ADAPTORS



MA-179ED



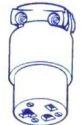
MA-7525



MA-7599



MA-7638



MA-7639

- MA-179ED** PLASTIC HANDLE PLUG 15A, 125V, 2 POLE, 2-WIRE 13/32ø 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



MA-7641



MA-7642



MA-7643



MA-7644

- 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

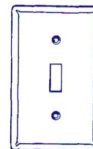


MA-7646

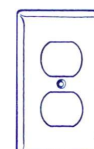


MA-7647

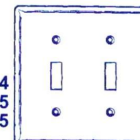
- MA-7645** VINYL ARMORED CONNECTOR 20A, 250V, NEMA 6-20, YELLOW
- MA-7646** RUBBER CONNECTOR, ROUND HANDLE CONNECTOR, 15A, 250V NEMA 5-15, BLACK **UL APPROVED**
- MA-7647** RUBBER PLUG, ROUND HANDLE CONNECTOR, 15A, 250V NEMA 5-15, BLACK **UL & CSA APPROVED**



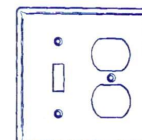
MA-7630  
MA-7631  
MA-7663



MA-7632  
MA-7633  
MA-7664



MA-7634  
MA-7635  
MA-7665



MA-7636  
MA-7637  
MA-7667



**SQUARE D  
DEFINITE PURPOSE  
CONTACTORS**

**3-POLE-LARGE FRAME**

	FULL LOAD AMPERES	COIL VAC
8910DPA23V14	25	24
8910DPA23V02	25	120
8910DPA23V09	25	240
8910DPA33V14	30	24
8910DPA33V02	30	120
8910DPA33V09	30	240
8910DPA43V14	40	24
8910DPA43V02	40	120
8910DPA43V09	40	240
8910DPA53V14	50	24
8910DPA53V02	50	120
8910DPA53V09	50	240
8910DPA63V14	60	24
8910DPA63V02	60	120
8910DPA63V09	60	240
8910DPA73V14	75	24
8910DPA73V02	75	120
8910DPA73V09	75	240
8910DPA93V14	90	24
8910DPA93V02	90	120
8910DPA93V09	90	240

**2-POLE-SMALL FRAME**

	FULL LOAD AMPERES	COIL VAC
8910DP22V14	25	24
8910DP22V02	25	120
8910DP22V09	25	240
8910DP32V14	30	24
8910DP32V02	30	120
8910DP32V09	30	240
8910DP42V14	40	24
8910DP42V02	40	120
8910DP42V09	40	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

**WORLD SOURCE  
DEFINITE PURPOSE  
CONTACTORS**



UNIVERSAL MOUNT  
LUG TERMINAL  
WITH QUICK CONNECT

**1-POLE**

	FULL LOAD AMPERES	COIL VAC
1P30A24V	30	24
1P40A24V	40	24

**1.5 POLE**

	FULL LOAD AMPERES	COIL VAC
112P30A24V	30	24
112P30A120V	30	120
112P30A240V	30	240

**2-POLE**

	FULL LOAD AMPERES	COIL VAC
2P20A24V	20	24
2P30A24V	30	24
2P30A120V	30	120
2P30A240V	30	240
2P40A24V	40	24
2P40A120V	40	120
2P40A240V	40	240

**3-POLE**

	FULL LOAD AMPERES	COIL VAC
3P30A24V	30	24
3P30A120V	30	120
3P30A240V	30	240
3P40A24V	40	24
3P40A120V	40	120
3P40A240V	40	240
3P50A24V	50	24
3P50A120V	50	120
3P50A240V	50	240
3P60A24V	60	24
3P60A120V	60	120
3P60A240V	60	240

**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



VISI-TRIP® = VISUAL RED INDICATOR IN WINDOW

**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

**SIEMENS  
CIRCUIT BREAKERS**

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

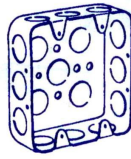
**4" SQUARE TWO DEVICE  
OUTLET BOXES**

**MA-E374** (50/PKG)

4"SQ x 1-1/2"  
WITH 1/2" KNOCKOUTS

**MA-E374D** (25/PKG)

4"SQ x 2-1/8"  
WITH 1/2" KNOCKOUTS

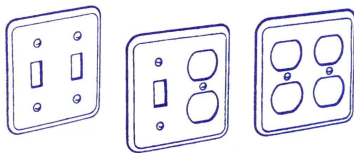


**4" COVERS FOR TWO  
DEVICE OUTLET BOXES**

**MA-E272** 2-TOGGLE SWITCHES  
(50/PKG)

**MA-E273** 1 TOGGLE SWITCH & 1  
DUPLEX RECEPTACLE (50/PKG)

**MA-E274** 2 DUPLEX  
RECEPTACLE (25/PKG)

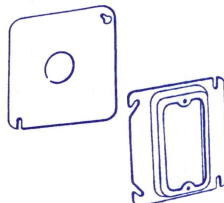
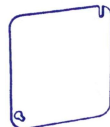


**4-11/16" COVERS  
FOR SQUARE  
OUTLET BOXES**

**MA-E584** 4-11/16" FLAT  
SQUARE BLANK COVER (25/PKG)

**MA-E590** 4-11/16" RAISED SQUARE  
SINGLE DEVICE (25/PKG)

**MA-E594** 4-11/16" FLAT SQUARE  
KNOCKOUT IN CENTER (25/PKG)



**4" SQUARE OUTLET BOX COVERS**

**MA-E554** 4" FLAT SQUARE  
BLANK COVER (50/PKG)

**MA-E560** 4" SQUARE 1/2" RAISED  
SINGLE FLUSH (50/PKG)

**MA-E564** 4" FLAT SQUARE WITH  
1/2" KNOCKOUT IN CENTER (50/PKG)

**MA-E570** 4" SQUARE 1/2" RAISED  
1 TOGGLE SWITCH (50/PKG)

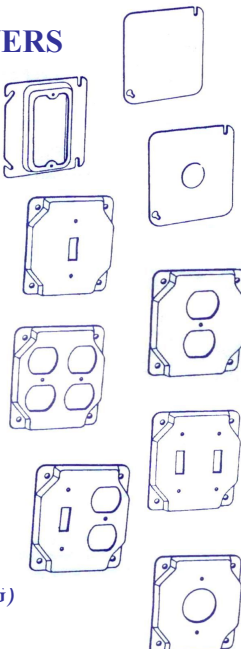
**MA-E571** 4" SQUARE 1/2" RAISED  
1 DUPLEX RECEPTACLE (50/PKG)

**MA-E572** 4" SQUARE 1/2" RAISED  
2 TOGGLE SWITCHES (50/PKG)

**MA-E573** 4" SQUARE 1/2" RAISED  
1 SWITCH & DUPLEX RECPT(50/PKG)

**MA-E574** 4" SQUARE 1/2" RAISED  
TWO DUPLEX RECEPTACLES (50/PKG)

**MA-E575** 4" SQUARE 1/2" RAISED  
SINGLE RECEPTACLE 1-13/32" (50/PKG)



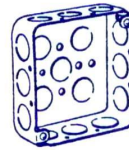
**4" SQUARE  
OUTLET BOXES**

**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



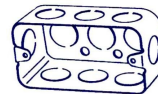
**STANDARD  
UTILITY  
BOXES**

**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"  
(50/PKG)WITH 1/2" & 3/4" KNOCKOUTS

**MA-E303D** 4" x 2-1/8"  
(25/PKG)WITH 1/2" & 3/4" KNOCKOUTS

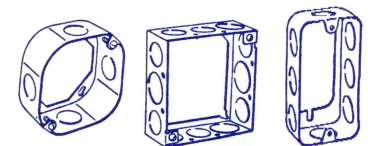


**EXTENSION RINGS**

**MA-E304EXT** 4" x 1-1/2"  
OCTAGON WITH 1/2" KNOCKOUTS  
(50/PKG)

**MA-E350EXT** 4" x 1-1/2"  
SQUARE WITH 1/2" & 3/4" KNOCKOUTS  
(50/PKG)

**MA-E200EXT** 4" x 2-1/8"  
RECTANGLE  
(50/PKG)



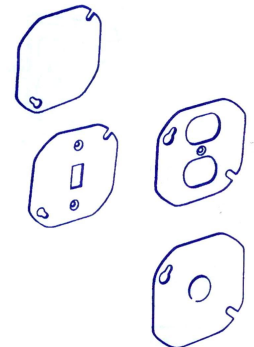
**4" OCTAGON  
OUTLET BOX  
COVERS**

**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**

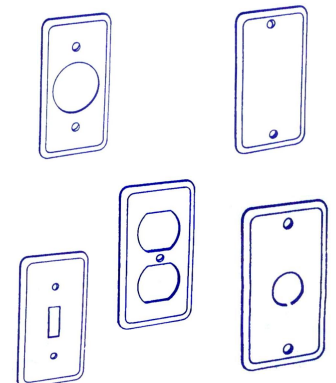
**MA-E251** 4" X 2-1/8"  
SINGLE RECEPTACLE

**MA-E252** 4" X 2-1/8"  
DUPLEX RECEPTACLE

**MA-E253** 4" X 2-1/8"  
TOGGLE SWITCH

**MA-E254** 4" X 2-1/8"  
BLANK

**MA-E255** 4" X 2-1/8"  
1-1/2" KNOCKOUT



**CONDENSER & HEAT EXCHANGER BRUSHES**



PART#		FEMALE THREADS	BRUSH LENGTH
<b>STAINLESS STEEL SINGLE SPIRAL</b>			
<b>AMA-502</b>	1/4" DIA.	8-32	3"
<b>AMA-504</b>	3/8" DIA.	12-24	4"
<b>AMA-507</b>	7/16" DIA.	12-24	4"
<b>AMA-510</b>	1/2" DIA.	12-24	4"
<b>AMA-513</b>	9/16" DIA.	12-24	4"
<b>AMA-516</b>	5/8" DIA.	12-24	4"
<b>AMA-519</b>	11/16" DIA.	12-24	4"
<b>AMA-522</b>	3/4" DIA.	12-24	4"
<b>AMA-525</b>	13/16" DIA.	12-24	4"
<b>AMA-528</b>	7/8" DIA.	12-24	4"
<b>AMA-531</b>	15/16" DIA.	12-24	4"
<b>AMA-533</b>	1" DIA.	12-24	4"
<b>BRASS WIRE SINGLE SPIRAL</b>			
<b>AMA-602</b>	1/4" DIA.	8-32	3"
<b>AMA-604</b>	3/8" DIA.	12-24	4"
<b>AMA-607</b>	7/16" DIA.	12-24	4"
<b>AMA-610</b>	1/2" DIA.	12-24	4"
<b>AMA-613</b>	9/16" DIA.	12-24	4"
<b>AMA-616</b>	5/8" DIA.	12-24	4"
<b>AMA-619</b>	11/16" DIA.	12-24	4"
<b>AMA-622</b>	3/4" DIA.	12-24	4"
<b>AMA-625</b>	13/16" DIA.	12-24	4"
<b>AMA-628</b>	7/8" DIA.	12-24	4"
<b>AMA-631</b>	15/16" DIA.	12-24	4"
<b>AMA-633</b>	1" DIA.	12-24	4"
<b>BLACK NYLON WIRE SINGLE SPIRAL</b>			
<b>AMA-702</b>	1/4" DIA.	8-32	3"
<b>AMA-704</b>	3/8" DIA.	12-24	4"
<b>AMA-707</b>	7/16" DIA.	12-24	4"
<b>AMA-710</b>	1/2" DIA.	12-24	4"
<b>AMA-713</b>	9/16" DIA.	12-24	4"
<b>AMA-716</b>	5/8" DIA.	12-24	4"
<b>AMA-719</b>	11/16" DIA.	12-24	4"
<b>AMA-722</b>	3/4" DIA.	12-24	4"
<b>AMA-725</b>	13/16" DIA.	12-24	4"
<b>AMA-728</b>	7/8" DIA.	12-24	4"
<b>AMA-731</b>	15/16" DIA.	12-24	4"
<b>AMA-733</b>	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**



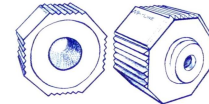
**SINGLE SPIRAL - 2 PLY WIRE CONSTRUCTION**  
STAINLESS STEEL WIRE & SOLID PLASTIC HAND-FITTING HANDLE

<b>AMA-824</b>	1/4"OD & 1/8"ID	
<b>AMA-825</b>	3/8"OD & 1/4"ID	<b>AMA-831</b> 1-1/8"OD & 1"ID
<b>AMA-826</b>	1/2"OD & 3/8"ID	<b>AMA-832</b> 1-3/8"OD & 1-1/8"ID
<b>AMA-827</b>	5/8"OD & 1/2"ID	<b>AMA-833</b> 1-1/2"OD & 1-3/8"ID
<b>AMA-828</b>	3/4"OD & 5/8"ID	<b>AMA-834</b> 1-5/8"OD & 1-1/2"ID
<b>AMA-829</b>	7/8"OD & 3/4"ID	<b>AMA-835</b> 2-1/8"OD & 2"ID
<b>AMA-830</b>	1"OD & 7/8"ID	<b>AMA-836</b> 2-1/2"OD & 2-1/8"ID

**DOUBLE SPIRAL - 4 PLY WIRE CONSTRUCTION**  
STAINLESS STEEL WIRE & SOLID PLASTIC HAND-FITTING HANDLE

<b>AMA-924</b>	1/4"OD & 1/8"ID	<b>AMA-931</b> 1-1/8"OD & 1"ID
<b>AMA-925</b>	3/8"OD & 1/4"ID	<b>AMA-932</b> 1-3/8"OD & 1-1/8"ID
<b>AMA-926</b>	1/2"OD & 3/8"ID	<b>AMA-933</b> 1-1/2"OD & 1-3/8"ID
<b>AMA-927</b>	5/8"OD & 1/2"ID	<b>AMA-934</b> 1-5/8"OD & 1-1/2"ID
<b>AMA-928</b>	3/4"OD & 5/8"ID	<b>AMA-935</b> 2-1/8"OD & 2"ID
<b>AMA-929</b>	7/8"OD & 3/4"ID	<b>AMA-936</b> 2-1/2"OD & 2-1/8"ID
<b>AMA-930</b>	1"OD & 7/8"ID	

**OUTSIDE TUBE CLEANING BRUSHES**



<b>AMA-960</b> 1/4", 3/8", 1/2", 5/8", 3/4" and 7/8"OD & SET OF 6	<b>AMA-966</b> 5/8"OD & 1/2"ID
<b>AMA-963</b> 1/4"OD & 1/8"ID	<b>AMA-967</b> 3/4"OD & 5/8"ID
<b>AMA-964</b> 3/8"OD & 1/4"ID	<b>AMA-968</b> 7/8"OD & 3/4"ID
<b>AMA-965</b> 1/2"OD & 3/8"ID	<b>AMA-969</b> 1"OD & 7/8"ID
	<b>AMA-970</b> 1-1/8"OD & 1"ID

**FLUX/ACID BRUSHES**



FOR  
BRAZING  
AND  
SOLDERING

**SOLD BY THE GROSS**

<b>AMA-001</b> 3/8"
TIN HANDLE
<b>AMA-002</b> 1/2"
TIN HANDLE
<b>AMA-003</b> 5/8"
TIN HANDLE

**PREPACKAGED**

<b>AMA-001-10</b> (10/PKG)
3/8" TIN HANDLE
<b>AMA-002-10</b> (10/PKG)
1/2" TIN HANDLE
<b>AMA-003-5</b> (5/PKG)
5/8" TIN HANDLE
<b>AMA-007-2</b> (2/PKG)
3/4" WOODEN HANDLE

**SOLD INDIVIDUALLY**

<b>AMA-007</b> 3/4"
WOODEN HANDLE



<b>AMA-130</b> 4" X 1/2"DIA. HANDGRIP (ONLY)12-24 SCREW
<b>AMA-132</b> 2' EXTENSION X 5/16"DIA. 12-24 THREADS ON ONE END AND FEMALE THREAD ON THE OTHER END
<b>AMA-133</b> 3' EXTENSION FOR USE WITH 3/8" THRU 1"DIA.

THE ABOVE ITEMS ARE FOR CONDENSER BRUSHES

**CONDENSER TUBE BRUSH-SPIN-GRIT™**



Spin Grit utilizes the sides of its impregnated nylon filaments to increase the brushes effectiveness!

BRUSH DIA.	TUBE SIZE
1/2"	1/4" - 5/16"
3/4"	3/8" - 9/16"
1"	5/8" - 11/16"
1-1/4"	3/4" - 1"

PART#	FEMALE THREADS	MALE THREADS
<b>MA-43482</b> 1/2" DIA.	8-32	
<b>MA-43484</b> 3/4" DIA.	12-24	
<b>MA-43486</b> 1" DIA.	12-24	
<b>MA-43488</b> 1-1/4" DIA.	12-24	
<b>MA-93482</b> 1/2" DIA.		8-32
<b>MA-93484</b> 3/4" DIA.		1/4-28
<b>MA-93486</b> 1" DIA.		1/4-28
<b>MA-93488</b> 1-1/4" DIA.		1/4-28

\* 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	15" OVERALL LENGTH
<b>AMA-530</b> 3/4" X 3"	<b>AMA-565</b> 1-1/2" X 4"
<b>AMA-539</b> 1" X 4"	<b>AMA-582</b> 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 6 BRUSH LENGTH 7 1/2

- AMA-762** 2" DIA. BLACK BRISTLE
- AMA-763** 2-1/2" DIA. SYNTHETIC BLACK HORSEHAIR
- AMA-765** 2-1/2" DIA. BLACK HORSEHAIR 6 POLY MIX

DUCT/VENT 48" OVERALL LENGTH 6 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

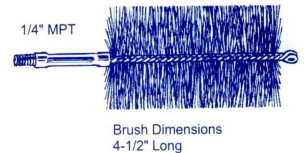
**CLOTHES DRYER VENT BRUSH WITH 10' FLEXIBLE HANDLE**



**AMA-410**

- FEATURES:**  
 REDUCES DRYING TIME  
 CONSERVES ENERGY  
 LOWERS UTILITY BILLS  
 PREVENTS VENT FIRES  
 EXTENDS DRYER LIFE

**FLUE AND FURNACE BRUSHES**



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 6 STIFF WIRE BOILER BRUSH - BRUSH DIA. 3/4" X 4" 6 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"



**SHOP WIPES**

**MA-SW70C-6**

(6/CTN SOLD BY CASE 6 PRICE PER EACH)

75 TOWELS PER CONTAINER 6 NO NEED  
FOR WATER 6 SAFE FOR THE SKIN 6  
DRIES FAST

**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"

**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  
180 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



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5125	46	2P40A24V	57	413B2X10-R	52	AF1200	17	AMA-132	59	AMA-519	59
32745	34	3015W15-R	52	413B2X12-R	52	AF1200-50	17	AMA-133	59	AMA-522	59
32750	34	3018W18-R	52	413B4X10-R	52	AF12516	17	AMA-1438	60	AMA-525	59
32755	34	3030FS	35	413B4X12-R	52	AF1300	17	AMA-1448	60	AMA-528	59
32760	34	3434FY	35	5050FS	35	AF1300-50	17	AMA-200	60	AMA-530	60
32770	34	3458FY	35	5125	46	AF13516	17	AMA-206	60	AMA-531	59
32780	34	3618FZ	35	5252FS	35	AF1400	17	AMA-208	60	AMA-533	59
32790	34	372W10X4	52	5454FY	35	AF1400-50	17	AMA-210	60	AMA-539	60
33329	34	372W10X6	52	5614FZ	35	AF1500	17	AMA-212	60	AMA-548	60
33330	34	372W10X8	52	6060FS	35	AF1500-50	17	AMA-214	60	AMA-565	60
33353	34	372W12X12	52	6464FS	35	AF1600	17	AMA-216	60	AMA-582	60
33354	34	372W12X4	52	7272FS	35	AF1600-50	17	AMA-218	60	AMA-602	59
33355	34	372W12X6	52	8080FS	35	AF1700	17	AMA-220	60	AMA-604	59
33356	34	372W12X8	52	8910DP22V02	57	AF1700-50	17	AMA-222	60	AMA-607	59
33357	34	372W14X14	52	8910DP22V09	57	AF1800	17	AMA-224	60	AMA-610	59
33358	34	372W14X20	52	8910DP22V14	57	AF1800-50	17	AMA-226	60	AMA-613	59
33359	34	372W14X6	52	8910DP32V02	57	AF1900	17	AMA-228	60	AMA-616	59
33362	34	372W14X8	52	8910DP32V09	57	AF1900-50	17	AMA-232	60	AMA-619	59
33363	34	372W20X20	52	8910DP32V14	57	AF2000	17	AMA-234	60	AMA-622	59
33364	34	372W30X6	52	8910DP42V02	57	AF2000BX	17	AMA-236	60	AMA-625	59
1010FY	35	372W8X8	52	8910DP42V09	57	AF2100	17	AMA-254	61	AMA-628	59
112P30A120V	57	382W10X4-R	52	8910DP42V14	57	AF2100-100	17	AMA-306	60	AMA-631	59
112P30A240V	57	382W10X6-R	52	8910DPA23V02	57	AF2100-25	17	AMA-308	60	AMA-633	59
112P30A24V	57	382W10X8-R	52	8910DPA23V09	57	AF2200-M	17	AMA-312	60	AMA-702	59
1212FY	35	382W12X4-R	52	8910DPA23V14	57	AF3134	17	AMA-314	60	AMA-704	59
1258FY	35	382W12X6-R	52	8910DPA33V02	57	AF3135	17	AMA-316	60	AMA-707	59
1418FZ	35	382W12X8-R	52	8910DPA33V09	57	AF3136	17	AMA-318	60	AMA-710	59
1500W10	52	382W14X4-R	52	8910DPA33V14	57	AF3138	17	AMA-322	60	AMA-713	59
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1500W8	52	382W14X8-R	52	8910DPA43V09	57	AF3142	17	AMA-326	60	AMA-719	59
1800B10	52	382W8X4-R	52	8910DPA43V14	57	AF3144	17	AMA-328	60	AMA-722	59
1800B6	52	382W8X6-R	52	8910DPA53V02	57	AF3148	17	AMA-332	60	AMA-725	59
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181SP-02	10	3838FZ	35	8910DPA53V14	57	AMA-001-10	59	AMA-336	60	AMA-731	59
181SP-03	10	3C	33	8910DPA63V02	57	AMA-002	59	AMA-348	60	AMA-733	59
181SP-04	10	3P30A120V	57	8910DPA63V09	57	AMA-002-10	59	AMA-405	61	AMA-762	60
181SP-06	10	3P30A240V	57	8910DPA63V14	57	AMA-003	59	AMA-406	60	AMA-763	60
1A	33	3P30A24V	57	8910DPA73V02	57	AMA-003-5	59	AMA-410	60	AMA-765	60
1P30A24V	57	3P40A120V	57	8910DPA73V09	57	AMA-007	59	AMA-438	60	AMA-816	61
1P40A24V	57	3P40A240V	57	8910DPA73V14	57	AMA-007-2	59	AMA-481	61	AMA-824	59
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2B	33	3P50A120V	57	8910DPA93V09	57	AMA-015	61	AMA-503	61	AMA-826	59
2P20A24V	57	3P50A240V	57	8910DPA93V14	57	AMA-017	61	AMA-504	59	AMA-827	59
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2P30A24V	57	3P60A240V	57	AF1100	17	AMA-026	61	AMA-510	59	AMA-830	59
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AMA-833	59	HOM230	57	MA01020P	41	MA02043-1	40	MA02580-1	36	MA02816-1	36
AMA-834	59	HOM240	57	MA01021-1	41	MA02044-1	40	MA02581-1	36	MA02818-1	36
AMA-835	59	HOM250	57	MA01021-2	41	MA02045-1	40	MA02583-1	37	MA02820-1	36
AMA-836	59	HOM260	57	MA01021-3	41	MA02046-1	40	MA02584-1	37	MA02821-1	36
AMA-924	59	MA00014-1	13	MA01021BX	41	MA02065-1	36	MA02585-1	37	MA02822-2	36
AMA-925	59	MA00030-1	13	MA01021P	41	MA02065-2	36	MA02586-1	37	MA02823-1	36
AMA-926	59	MA00036-1	41	MA01022-1	41	MA02066-1	36	MA02587-1	37	MA02824-2	36
AMA-927	59	MA00098-1	41	MA01022-2	41	MA02066-2	36	MA02588-1	37	MA02825-1	36
AMA-928	59	MA00099-1	41	MA01022-3	41	MA02109-1	37	MA02589-1	37	MA02826-2	36
AMA-929	59	MA00100-1	41	MA01022BX	41	MA021120-2	40	MA02590-1	37	MA02827-1	36
AMA-930	59	MA00101-1	41	MA01022P	41	MA021120-2B	40	MA02591-1	36	MA02828-2	36
AMA-931	59	MA00102-1	41	MA01023-1	37	MA02127-1	36	MA02592-1	37	MA02830-1	36
AMA-932	59	MA-00106	49	MA01023-2	37	MA02127-2	36	MA02595-1	37	MA02833-1	36
AMA-933	59	MA00151-1	41	MA01029-1	37	MA02142-1	36	MA02596-2	36	MA02834-2	36
AMA-934	59	MA00152-1	41	MA01029-2	37	MA02142-2	36	MA02597-2	37	MA02837-2	36
AMA-935	59	MA00153-1	41	MA01042-1	37	MA02148-2	40	MA02598-2	37	MA02839-1	36
AMA-936	59	MA00154-1	41	MA01042-2	37	MA02149-2	40	MA02618-2	37	MA02840-2	36
AMA-960	59	MA-00205	49	MA01043-1	37	MA02150-2	40	MA02619-2	37	MA02842-1	36
AMA-963	59	MA-002CR	34	MA01043-2	37	MA02151-2	40	MA02620-2	36	MA02843-2	36
AMA-964	59	MA-002RR	34	MA01046-1	37	MA02152-2	40	MA02621-2	36	MA02860-1	36
AMA-965	59	MA-00304	49	MA01046-2	37	MA02153-2	40	MA02622-2	36	MA02861-2	36
AMA-966	59	MA-003CR	34	MA01066-1	37	MA-0230	27	MA02623-2	36	MA02869-1	36
AMA-967	59	MA-003RR	34	MA-010669	5	MA02512G	39	MA02652-2	38	MA02870-2	36
AMA-968	59	MA00478-1	10	MA01123-1	37	MA02512P	39	MA02653-2	38	MA02872-1	36
AMA-969	59	MA00479-1	10	MA01124-1	36	MA02514G	39	MA02707-2	36	MA02873-2	36
AMA-970	59	MA00480-1	10	MA01130-1	37	MA02514P	39	MA02724-2	36	MA02875-1	36
D109	17	MA-004CR	34	MA01130-2	37	MA02521-1	36	MA02726-1	36	MA02876-2	36
D110	17	MA-004RR	34	MA01164-1	42	MA02522-1	36	MA02727-2	36	MA02881-1	36
D111	17	MA-006CR	34	MA01164C-2	42	MA02525-2	46	MA02729-1	36	MA02882-2	36
D112	17	MA-006RR	34	MA01165-1	42	MA02525-3	46	MA02729-2	36	MA02894-1	37
D113	17	MA01012G	39	MA01165C-2	42	MA02525-EUKIT	46	MA02744-1	36	MA02894-2	37
D114	17	MA01012P	39	MA01166-1	42	MA02526-1	37	MA02745-2	36	MA02896-1	37
D115	17	MA01014G	39	MA01166C-2	42	MA02528-1	36	MA02746-1	36	MA02896-2	37
DCH032S	19	MA01014P	39	MA0126-12	30	MA02530-1	36	MA02747-2	36	MA02898-2	37
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DCH164S	19	MA01018P	41	MA-012RR	34	MA02541-1	37	MA02773-1	36	MA02911-2	37
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HOM120	57	MA01019BX	41	MA-018CR	34	MA02548-1	42	MA02779-1	36	MA02940-2	36
HOM130	57	MA01019P	41	MA-018RR	34	MA02549-1	42	MA02780-2	36	MA02942-2	36
HOM140	57	MA01020-1	41	MA02012-1	37	MA02551-1	42	MA02782-1	36	MA02944-2	36
HOM150	57	MA01020-2	41	MA02013-1	37	MA02577-1	36	MA02783-2	36	MA02951-2	36
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MA02955-2	36	MA03150-1	41	MA03185-1	40	MA03235-2	39	MA03466-1	37	MA03754-2	38
MA02956-1	36	MA03150-2	41	MA03188-2	40	MA03235-3	39	MA03467-1	37	MA03756-2	38
MA02960-1	36	MA03151-1	41	MA03189-1	40	MA03236-2	39	MA03467-2	37	MA03757-2	38
MA02962-2	36	MA03151-2	41	MA03190-2	40	MA03236-3	39	MA03469-1	37	MA03758-1	31
MA02968-1	36	MA03152-1	41	MA03192-1	40	MA03237-2	39	MA03469-2	37	MA03758-2	31
MA02968-2	36	MA03152-2	41	MA03193-2	40	MA03237-3	39	MA03471-1	37	MA03758-3	31
MA02969-1	36	MA03153-1	41	MA03195-1	40	MA03238-2	39	MA03471-2	37	MA03759-1	31
MA02969-2	36	MA03153-2	41	MA03196-2	40	MA03238-3	39	MA03473-1	37	MA03759-2	31
MA02971-2	37	MA03154-1	41	MA03198-1	40	MA03239-2	39	MA03473-2	37	MA03759-3	31
MA02973-1	37	MA03154-2	41	MA03199-2	40	MA03239-3	39	MA03475-1	37	MA03760-1	31
MA02974-2	37	MA03155-1	41	MA03200-2	28	MA03240-2	39	MA03475-2	37	MA03760-2	31
MA02975-2	37	MA03155-2	41	MA03203-2	28	MA03240-3	39	MA03477-1	37	MA03760-3	31
MA02977-2	37	MA03156-1	41	MA03217-2	39	MA03241-2	39	MA03477-2	37	MA03761-1	31
MA02978-2	37	MA03156-2	41	MA03217-3	39	MA03241-3	39	MA03500-2	27	MA03761-2	31
MA02980-1	37	MA03157-1	41	MA03218-2	39	MA03343-1	37	MA03505-2	27	MA03761-3	31
MA02982-2	37	MA03157-2	41	MA03218-3	39	MA03344-2	37	MA03506-2	27	MA03762-1	31
MA02983-2	37	MA03158-1	41	MA03219-2	39	MA03344-3	37	MA03507-2	27	MA03762-2	31
MA02984-2	23	MA03158-2	41	MA03219-3	39	MA03349-1	37	MA03508-2	27	MA03762-3	31
MA02984-3	23	MA03159-1	41	MA03220-2	39	MA03353-2	38	MA03509-2	27	MA03763-1	31
MA02985-2	23	MA03159-2	41	MA03220-3	39	MA03355-2	38	MA03510-2	27	MA03763-2	31
MA02985-3	23	MA03161-1	41	MA03221-2	39	MA03360-1	37	MA-03532	22	MA03763-3	31
MA02987-2	23	MA03161-2	41	MA03221-3	39	MA03361-2	37	MA-03533	22	MA03765-1	40
MA02991-3	23	MA03162-1	41	MA03222-2	39	MA03362-1	36	MA03539-2	31	MA03771-1	36
MA03011-2	36	MA03162-2	41	MA03222-3	39	MA03363-2	36	MA03539-24	31	MA03772-1	36
MA03012-2	36	MA03163-1	41	MA03223-2	39	MA03364-2	48	MA03540-2	31	MA03773-1	36
MA03013-2	37	MA03163-2	41	MA03223-3	39	MA03373-2	42	MA03540-24	31	MA03774-1	36
MA03015-1	37	MA03164-1	41	MA03224-2	39	MA03375-2	38	MA03541-2	31	MA03775-1	37
MA03016-2	37	MA03164-2	41	MA03224-3	39	MA03376-2	38	MA03541-24	31	MA03775-2	37
MA03018-1	37	MA03165-1	41	MA03225-2	39	MA03383-1	10	MA03542-2	31	MA03776-1	36
MA03019-2	37	MA03165-2	41	MA03225-3	39	MA03385-1	10	MA03543-2	31	MA03778-2	36
MA03022-2	37	MA03166-1	41	MA03226-2	39	MA03387-1	10	MA03544-2	31	MA03779-2	36
MA03023-2	37	MA03166-2	41	MA03226-3	39	MA03389-1	10	MA03545-2	31	MA03780-2	36
MA03028-1	37	MA03167-1	41	MA03227-2	39	MA03391-1	10	MA03546-2	31	MA03781-2	36
MA03029-2	37	MA03167-2	41	MA03227-3	39	MA03393-1	10	MA03565-2	31	MA03782-2	36
MA03033-2	42	MA03168-1	41	MA03228-2	39	MA03394-1	10	MA03565-3	31	MA03783-2	36
MA03034-2	42	MA03168-2	41	MA03228-3	39	MA03395-1	37	MA03566-2	31	MA03784-1	36
MA03035-2	42	MA03169-1	41	MA03229-2	39	MA03395-2	37	MA03566-4	31	MA03784-2	36
MA03042-1	37	MA03169-2	41	MA03229-3	39	MA03413-2	31	MA03567-2	31	MA03785-1	36
MA03063-1	37	MA03171-1	40	MA03230-2	39	MA03413-4	31	MA03567-3	31	MA03785-2	36
MA03075-1	42	MA03172-2	40	MA03230-3	39	MA03414-2	31	MA-0360	49	MA03790-2	36
MA03076-2	42	MA03174-1	40	MA03231-2	39	MA03414-4	31	MA-0361	49	MA03791-2	36
MA03077-1	42	MA03175-2	40	MA03231-3	39	MA03415-2	31	MA036175-2	40	MA03792-2	36
MA03090-1	23	MA03177-1	40	MA03232-2	39	MA03415-4	31	MA036175-2B	40	MA03793-1	36
MA03092-1	23	MA03178-2	40	MA03232-3	39	MA03416-2	31	MA-0362	49	MA03793-2	36
MA03093-1	23	MA03180-1	40	MA03233-2	39	MA03416-4	31	MA-0363	49	MA03794-2	36
MA03096-2	23	MA03181-2	40	MA03233-3	39	MA03417-2	31	MA03750-2	38	MA03798-1	36
MA03149-1	41	MA03183-1	40	MA03234-2	39	MA03417-4	31	MA03751-2	38	MA03798-2	36

PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #
MA03802-2	38	MAOHT12B4	39	MA10604-2	42	MA-1202	26	MA-12537	48	MA-14050	47
MA04132-1	42	MAOHT12B5	39	MA10604BX	42	MA-12032	24	MA-12545	48	MA-14051	47
MA04233-2	42	MAOHT12R1	39	MA10606-1	42	MA-12032-100	24	MA-12547	48	MA-14052	47
MA04501-2	55	MAOHT12R2	39	MA10606-2	42	MA-12032-25	24	MA-12548	48	MA-14053	47
MA04502-2	55	MAOHT12R3	39	MA10606BX	42	MA-12032-50	24	MA-1257	55	MA-14054	47
MA04503-2	55	MAOHT12R4	39	MA10608-1	42	MA-12033	24	MA-1258	55	MA-14055	47
MA04504-2	55	MAOHT12R5	39	MA10608-2	42	MA-12033-100	24	MA-1266T	30	MA-14056	47
MA04505-2	55	MAOHT12W1	39	MA10608BX	42	MA-12033-25	24	MA-12700A	3	MA-14057	47
MA04506-2	55	MAOHT12W2	39	MA10610P	42	MA-12033-50	24	MA-12701	4	MA-142-1	6
MA-04625	43	MAOHT12W3	39	MA-10CR	28	MA-12034	24	MA-12702	4	MA-142A	6
MA04702-2B	40	MAOHT12W4	39	MA-10DT12	11	MA-12034-100	24	MA-12812	3	MA-142MA	6
MA04704-2B	40	MAOHT12W5	39	MA-10DT34	11	MA-12034-25	24	MA-12813	3	MA-143A	6
MA04706-2B	40	MAOHT14B1	39	MA-10WR	28	MA-12034-50	24	MA-12814	2	MA-143M	6
MA04708-2B	40	MAOHT14B2	39	MA-1109	49	MA-12035	24	MA-12815A	5	MA-145EL	18
MA04710-2B	40	MAOHT14B3	39	MA-11-12X	47	MA-12035-100	24	MA-12816A	2	MA-147B	27
MA04712-2B	40	MAOHT14B4	39	MA-1115	49	MA-12035-25	24	MA-12817B	2	MA-149	6
MA04793-2B	40	MAOHT14B5	39	MA-1117	33	MA-12035-50	24	MA-12818	2	MA-149-1	6
MA04796-2B	40	MAOHT14R1	39	MA-1122	49	MA-12052	24	MA-12819	4	MA-1500	42
MA04799-2B	40	MAOHT14R2	39	MA-112BG	18	MA-12052-100	24	MA-12821	5	MA-15005	15
MA048175-2	40	MAOHT14R3	39	MA-112CPLG	18	MA-12052-25	24	MA-12822A	4	MA-15007	15
MA048175-2B	40	MAOHT14R4	39	MA-1-12X	47	MA-12052-50	24	MA-12823	3	MA-15008	15
MA05007-2	40	MAOHT14R5	39	MA-11302	33	MA-12053	24	MA-12826A	4	MA-152540	44
MA05008-2	40	MAOHT14W1	39	MA-1131	49	MA-12053-100	24	MA-12827	3	MA-157-1	6
MA05012G	39	MAOHT14W2	39	MA-11315	33	MA-12053-25	24	MA-12829	3	MA-157A	6
MA05012P	39	MAOHT14W3	39	MA-1132L	32	MA-12053-50	24	MA-12830A	5	MA-159A	29
MA05014G	39	MAOHT14W4	39	MA-11354	33	MA-12054	24	MA-12830A-S	5	MA-155A	12
MA05014P	39	MAOHT14W5	39	MA-114	29	MA-12054-100	24	MA-12834	7	MA-16501	7
MA-05028	33	MA-1001	21	MA-1141	49	MA-12054-25	24	MA-12835A	5	MA-16505A	7
MA05031-2	23	MA-10010	15	MA-1148	33	MA-12054-50	24	MA-12836	7	MA-16506	7
MA0512G	39	MA-1001NS	9	MA-11830	47	MA-12055	24	MA-12837	3	MA-16507	7
MA0512P	39	MA-1001S	9	MA-11840	47	MA-12056	24	MA-12838A	5	MA-16509B	7
MA0514G	39	MA-10050	15	MA-11853	47	MA-12057	24	MA-12842	5	MA-16513	7
MA0514P	39	MA-10075	15	MA-11866	47	MA-12060	25	MA-12843A	5	MA-16531B	7
MA-0620	21	MA-101	47	MA-11879	47	MA-12060-100	25	MA-12844	5	MA-16532	8
MA06295-2	38	MA-102	47	MA-1200	26	MA-12060-25	25	MA-12845	6	MA-16533	7
MA06295P	42	MA-10214	33	MA-12004	25	MA-12060-50	25	MA-128500	44	MA-16540	8
MA07172-2	40	MA-10218	33	MA-12004-100	25	MA-1212	55	MA-1290EL	18	MA-16541	8
MA07178-2	40	MA-10344	43	MA-12004-25	25	MA-1225	55	MA-1290STEL	18	MA-16542	8
MA07181-2	40	MA-10345	43	MA-12004-50	25	MA-12353	3	MA-12CAP	18	MA-16544	4
MA07182-2	40	MA-10346	43	MA-1201	26	MA-12355A	4	MA-12CPLG	18	MA-16551	7
MA09353-2	31	MA-10347	43	MA-12010	25	MA-12356	4	MA-12PLG	18	MA-1660	9
MA09354-2	31	MA-10348	43	MA-12010-100	25	MA-12357A	4	MA-12T	18	MA-1665A	9
MA-09709	22	MA-10349	43	MA-12010-25	25	MA-12358	3	MA-12U	18	MA-167L	32
MA-09857	22	MA-10350	43	MA-12010-50	25	MA-12361	4	MA-132A	30	MA-16N	29
MA-09858	22	MA10602-1	42	MA-12013	25	MA-12362	4	MA-134BG	18	MA-16RR	29
MAOHT12B1	39	MA10602-2	42	MA-12013-100	25	MA-1238BG	18	MA-134CPLG	18	MA-16SA	12
MAOHT12B2	39	MA10602BX	42	MA-12013-25	25	MA-1245EL	18	MA-14012	47	MA-171	38
MAOHT12B3	39	MA10604-1	42	MA-12013-50	25	MA-12535	48	MA-14025	47	MA-17255	43

PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #
MA-17256	43	MA-22005	25	MA-22065	25	MA-22154	24	MA-22286	24	MA-30605	20
MA-17257	43	MA-22005-100	25	MA-22065-100	25	MA-22154-100	24	MA-22286-100	24	MA-30607	20
MA-174	38	MA-22005-25	25	MA-22065-25	25	MA-22154-25	24	MA-22286-25	24	MA-30610	20
MA-174D	38	MA-22005-50	25	MA-22065-50	25	MA-22154-50	24	MA-22286-50	24	MA-30705	20
MA-175D	38	MA-22006	25	MA-22066	25	MA-22157	24	MA-22289	25	MA-30707	20
MA-176E	38	MA-22006-100	25	MA-22066-100	25	MA-22157-100	24	MA-22289-100	25	MA-30710	20
MA-179ED	56	MA-22006-25	25	MA-22066-25	25	MA-22157-25	24	MA-22289-25	25	MA-30818	47
MA-181834	34	MA-22006-50	25	MA-22066-50	25	MA-22157-50	24	MA-22289-50	25	MA-30821	47
MA-181838	34	MA-22007	25	MA-22112	24	MA-22159	24	MA-22290	25	MA-30834	47
MA-185	29	MA-22007-100	25	MA-22112-100	24	MA-22159-100	24	MA-22290-100	25	MA-30847	47
MA-186	29	MA-22007-25	25	MA-22112-25	24	MA-22159-25	24	MA-22290-25	25	MA-30F3	14
MA-18975	17	MA-22007-50	25	MA-22112-50	24	MA-22159-50	24	MA-22290-50	25	MA-30SA	12
MA-18985	17	MA-22009	25	MA-22113	24	MA-22160	24	MA-2300	42	MA-31012	47
MA-190	32	MA-22009-100	25	MA-22113-100	24	MA-22160-100	24	MA-25E29821	16	MA-31013	47
MA-190EL	18	MA-22009-25	25	MA-22113-25	24	MA-22160-25	24	MA-25E29831	16	MA-31014	47
MA-190STEL	18	MA-22009-50	25	MA-22113-50	24	MA-22160-50	24	MA-25E29832	16	MA-31015	47
MA-19173	27	MA-22010	25	MA-22114	24	MA-22161	24	MA-25E59	16	MA-311	33
MA-192	32	MA-22010-100	25	MA-22114-100	24	MA-22161-100	24	MA-25E80	16	MA-31132	47
MA-1CAP	18	MA-22010-25	25	MA-22114-25	24	MA-22161-25	24	MA-263	13	MA-31133	47
MA-1CPLG	18	MA-22010-50	25	MA-22114-50	24	MA-22161-50	24	MA-263-R	13	MA-31226	48
MA-1PLG	18	MA-22012	25	MA-22116	24	MA-22182	25	MA-290	26	MA-31227	48
MA-1RR	28	MA-22012-100	25	MA-22116-100	24	MA-22182-100	25	MA-2E1441	16	MA-31228	48
MA-1T	18	MA-22012-25	25	MA-22116-25	24	MA-22182-25	25	MA-2E1442	16	MA-31229	48
MA-1U	18	MA-22012-50	25	MA-22116-50	24	MA-22182-50	25	MA-30038	15	MA-31230	48
MA-2001	21	MA-22013	25	MA-22117	24	MA-22185	25	MA-30050	15	MA-31231	48
MA-20010	15	MA-22013-100	25	MA-22117-100	24	MA-22185-100	25	MA-30075	15	MA-31318	20
MA-2001S	9	MA-22013-25	25	MA-22117-25	24	MA-22185-25	25	MA-30105	20	MA-31348	20
MA-2002S	9	MA-22013-50	25	MA-22117-50	24	MA-22185-50	25	MA-30107	20	MA-31405	20
MA-2003S	9	MA-22014	25	MA-22120	24	MA-22186	25	MA-30110	20	MA-31407	20
MA-20050	15	MA-22014-100	25	MA-22120-100	24	MA-22186-100	25	MA-30132	33	MA-31410	20
MA-20075	15	MA-22014-25	25	MA-22120-25	24	MA-22186-25	25	MA-30155	20	MA-317G	28
MA-202	29	MA-22014-50	25	MA-22120-50	24	MA-22186-50	25	MA-30157	20	MA-318	28
MA-202RB	29	MA-22031	24	MA-22122	24	MA-22187	25	MA-30158	20	MA-322-2	48
MA-20534	61	MA-22031-100	24	MA-22122-100	24	MA-22187-100	25	MA-301C	29	MA-322-3	48
MA-207013	20	MA-22031-25	24	MA-22122-25	24	MA-22187-25	25	MA-30200	33	MA-326	28
MA-207030	20	MA-22031-50	24	MA-22122-50	24	MA-22187-50	25	MA-30275	20	MA-32831	23
MA-20SA	12	MA-22048	25	MA-22151	24	MA-22192	24	MA-302L	32	MA-32832	23
MA-21/2SA	12	MA-22048-100	25	MA-22151-100	24	MA-22192-100	24	MA-303	33	MA-32905	20
MA-213	13	MA-22048-25	25	MA-22151-25	24	MA-22192-25	24	MA-30301	13	MA-32907	20
MA-2149L	32	MA-22048-50	25	MA-22151-50	24	MA-22192-50	24	MA-30303	13	MA-32950	45
MA-22002	25	MA-22049	25	MA-22152	24	MA-22263	24	MA-30305	20	MA-32N	29
MA-22002-100	25	MA-22049-100	25	MA-22152-100	24	MA-22263-100	24	MA-30307	20	MA-32SA	12
MA-22002-25	25	MA-22049-25	25	MA-22152-25	24	MA-22263-25	24	MA-30311	20	MA-33002	17
MA-22002-50	25	MA-22049-50	25	MA-22152-50	24	MA-22263-50	24	MA-30357	20	MA-33005	17
MA-22003	25	MA-22064	25	MA-22153	24	MA-22264	24	MA-30405	20	MA-33008	17
MA-22003-100	25	MA-22064-100	25	MA-22153-100	24	MA-22264-100	24	MA-30407	20	MA-33350	61
MA-22003-25	25	MA-22064-25	25	MA-22153-25	24	MA-22264-25	24	MA-30410	20	MA-33570	61
MA-22003-50	25	MA-22064-50	25	MA-22153-50	24	MA-22264-50	24	MA-30457	20	MA-337	28

PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #
MA-338	28	MA3L480	50	MA-4433	22	MA-4E22	16	MA4L510	50	MA-563211	44
MA-33905	20	MA-4001	21	MA-447025	20	MA-4E23	16	MA4L520	50	MA-572A	10
MA-33907	20	MA-40038	15	MA-447040	20	MA-4E24	16	MA4L530	50	MA-5DT1	11
MA-33910	20	MA-40050	15	MA-448007	20	MA-4E421	15	MA4L540	50	MA-5DT112	11
MA-33C	2	MA-40075	15	MA-450007	20	MA-4E422	15	MA4L550	50	MA-5DT114	11
MA-340-5	33	MA-400RC30	44	MA-4540	22	MA-4E48	15	MA4L560	50	MA-5GP	33
MA-341212T	18	MA-400RC50	44	MA-457005	20	MA-4E5090A	14	MA4L570	50	MA5L290	50
MA-3412BG	18	MA-4010	45	MA-457007	20	MA-4E50A	14	MA4L580	50	MA5L300	50
MA-3412CPLG	18	MA-401020	20	MA-457010	20	MA-4E51	15	MA4L590	50	MA5L310	50
MA-343412T	18	MA-401025	20	MA-457012	20	MA-4E57	15	MA4L600	50	MA5L320	50
MA-3445EL	18	MA-4012W	14	MA-457015	20	MA-4E58	15	MA4L610	50	MA5L330	50
MA-345-1	33	MA-4034W	14	MA-457020	20	MA-4E59A	16	MA4L620	50	MA5L340	50
MA-345-2	33	MA-4040	45	MA-460G	28	MA-4E75	14	MA4L630	50	MA5L350	50
MA-3466T	30	MA-406025	20	MA-46810	61	MA-4E7590	14	MA4L640	50	MA5L360	50
MA-34790	61	MA-407074	20	MA-48L	32	MA4L170	50	MA4L650	50	MA5L370	50
MA-348	28	MA-409010	20	MA-49051	45	MA4L180	50	MA4L660	50	MA5L380	50
MA-3490EL	18	MA-410005	20	MA-49052B	45	MA4L190	50	MA4L670	50	MA5L390	50
MA-3490STEL	18	MA-410007	20	MA-49052AUS	45	MA4L200	50	MA4L680	50	MA5L400	50
MA-34CAP	18	MA-410010	20	MA-49052EPC	45	MA4L210	50	MA4L690	50	MA5L410	50
MA-34CPLG	18	MA-4101	22	MA-49090	43	MA4L220	50	MA4L700	50	MA5L420	50
MA-34PLG	18	MA-410101	20	MA-49091	43	MA4L230	50	MA4L710	50	MA5L430	50
MA-34RUEL	10	MA-4102	22	MA-49092	43	MA4L240	50	MA4L720	50	MA5L440	50
MA-34T	18	MA-4104	22	MA-49116	44	MA4L250	50	MA-4LC20D	14	MA5L450	50
MA-34U	18	MA-41300	61	MA-49191	43	MA4L260	50	MA-4LC20E	14	MA5L460	50
MA-3600	38	MA-41500	49	MA-49192	43	MA4L270	50	MA-4LC43D	14	MA5L470	50
MA-3612	38	MA-417025	20	MA-49193	43	MA4L280	50	MA-4LC43E	14	MA5L480	50
MA-36732	32	MA-420G	28	MA-49310	26	MA4L290	50	MA-4LN	28	MA5L490	50
MA-36742	32	MA-422G	28	MA-493114	26	MA4L300	50	MA-4NMLT50	14	MA5L500	50
MA-38RUEL	10	MA-424G	28	MA-49316	26	MA4L310	50	MA-4NMLT75	14	MA5L510	50
MA-398	48	MA-426G	28	MA-49317	26	MA4L320	50	MA-4NMLT9050	14	MA5L520	50
MA-398BL	48	MA-429025	20	MA-49318	26	MA4L330	50	MA-4NMLT9075	14	MA5L530	50
MA3L310	50	MA-430G	28	MA-49320	27	MA4L340	50	MA-502N-8L	21	MA5L540	50
MA3L320	50	MA-43482	60	MA-49324	27	MA4L350	50	MA-508L	32	MA5L550	50
MA3L330	50	MA-43484	60	MA-49330	27	MA4L360	50	MA-50ABF	9	MA5L560	50
MA3L340	50	MA-43486	60	MA-49331	27	MA4L370	50	MA-51	52	MA5L570	50
MA3L350	50	MA-43488	60	MA-49332	27	MA4L380	50	MA-5400L	32	MA5L580	50
MA3L360	50	MA-436074	20	MA-49333	27	MA4L390	50	MA-5400M	32	MA5L590	50
MA3L370	50	MA-437131	20	MA-49334	27	MA4L400	50	MA-5400S	32	MA5L600	50
MA3L380	50	MA-437292	20	MA-49858A	23	MA4L410	50	MA-5400XL	32	MA5L610	50
MA3L390	50	MA-437339	20	MA-4E104A	15	MA4L420	50	MA-5406BX	11	MA5L620	50
MA3L400	50	MA-4401	22	MA-4E110	15	MA4L430	50	MA-5408BX	11	MA5L630	50
MA3L410	50	MA-4402	22	MA-4E1101	15	MA4L440	50	MA-5410BX	11	MA5L640	50
MA3L420	50	MA-4404	22	MA-4E1102	15	MA4L450	50	MA-5412BX	11	MA5L650	50
MA3L430	50	MA-440G	28	MA-4E121	16	MA4L460	50	MA-5416BX	11	MA5L660	50
MA3L440	50	MA-4429	22	MA-4E122	16	MA4L470	50	MA-5420BX	11	MA5L670	50
MA3L450	50	MA-442G	28	MA-4E123	16	MA4L480	50	MA-5428BX	11	MA5L680	50
MA3L460	50	MA-4430	22	MA-4E124	16	MA4L490	50	MA-5432BX	11	MA5L690	50
MA3L470	50	MA-4431	22	MA-4E21	16	MA4L500	50	MA-56188	11	MA5L700	50

PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #
MA5L710	50	MA-63493	22	MA-70620	20	MA-7519	13	MA-7654	55	MA-8646XL	32
MA5L720	50	MA-64N	29	MA-70630	20	MA-7525	56	MA-7655	55	MA-88057	26
MA-5TCA	33	MA-65093	22	MA-71115	20	MA-7599	56	MA-7656	55	MA-88081	26
MA60042	49	MA-650B	40	MA-71120	20	MA-7600	55	MA-7657	55	MA-88091	26
MA60048	49	MA-650N	40	MA-71130	20	MA-7601	55	MA-7658	55	MA-8R	28
MA60049K	49	MA-651	33	MA-71-132R	30	MA-7602	55	MA-7659	56	MA-9001	49
MA-600CF	3	MA-67363	22	MA-71354	22	MA-7603	55	MA-7660	56	MA-9002	49
MA-6012W	14	MA68004	49	MA-71493	22	MA-7604	55	MA-7661	56	MA-9003	49
MA60306K	49	MA-68150	42	MA-71801P	30	MA-7605	55	MA-7662	56	MA-90303	43
MA-6034W	14	MA-69523	23	MA-71802P	30	MA-7606	55	MA-7663	56	MA-90304	43
MA-60609	27	MA-6LN	28	MA-71803P	30	MA-7607	55	MA-7664	56	MA-90502	44
MA-60610	27	MA-70059P	26	MA-72023	22	MA-7608	55	MA-7665	56	MA-90503	45
MA-60613	27	MA-70090	27	MA-72066	27	MA-7611	55	MA-7667	56	MA-908G	28
MA-60613-25	27	MA-70091	27	MA-72314	22	MA-76110	49	MA-7668	56	MA-909	28
MA-60616	27	MA-70093	27	MA-72433	29	MA-7612	56	MA-7669	56	MA-926	28
MA-60616-25	27	MA-70094	27	MA-72435	29	MA-7613	56	MA-7670	55	MA-9306	26
MA-60743	22	MA-70095	27	MA-72437	29	MA-7614	56	MA-7671	55	MA-9308	26
MA-60954	22	MA-70097	27	MA-72439	29	MA-7615	56	MA-7672	55	MA-9310	26
MA-60A	9	MA-70098	27	MA-72744	22	MA-7617	56	MA-7673	55	MA-9311	26
MA-60AFF	9	MA-70099	27	MA-72815	20	MA-7618	56	MA-7674	56	MA-9312	26
MA-60F3	14	MA-70100	27	MA-72820	20	MA-7621	55	MA-77940	33	MA-9314	26
MA-60NF3	14	MA-70115	20	MA-72830	20	MA-7624	55	MA-7CR	28	MA-9316	26
MA-61/4SA	12	MA-70116	20	MA-7300	32	MA-7625	55	MA-7WR	28	MA-93482	60
MA61000	49	MA-70120	20	MA-73093	22	MA-7626	55	MA80105	49	MA-93484	60
MA61056	49	MA-70121	20	MA-73101	43	MA-7630	56	MA-8016	49	MA-93486	60
MA-61623	22	MA-70122	20	MA-73102	43	MA-7631	56	MA80293	49	MA-93488	60
MA-6182	36	MA-70130	20	MA-73103	43	MA-7632	56	MA-8032	49	MA-9355	26
MA-6183	36	MA-70132	20	MA-73104	43	MA-7633	56	MA-8101	22	MA-9357	26
MA-61834	22	MA-70133	20	MA-73105	43	MA-7634	56	MA-8201	22	MA-9358	26
MA-6184	36	MA-70-14JR	30	MA-73106	43	MA-7635	56	MA-8202A	22	MA-9601	31
MA-6185	36	MA-70151	20	MA-73107	43	MA-7636	56	MA-8203	22	MA-9602	31
MA-6186	36	MA-70152	20	MA-73108	43	MA-7637	56	MA-8205	22	MA-9603	31
MA-6187	36	MA-70153	20	MA-73109	43	MA-7638	56	MA-8206	23	MA-9604	31
MA-6188	36	MA-70204	22	MA-73110	43	MA-7639	56	MA-8207	23	MA-9605	31
MA-6192	36	MA-70221	20	MA-73111	43	MA-7640	56	MA-821	4	MA-9606	31
MA-6193	36	MA-70231	20	MA-73112	43	MA-7641	56	MA-823	4	MA-9607	31
MA-6194	36	MA-70232	20	MA-7321	23	MA-7642	56	MA-8250	45	MA-9608	31
MA-6195	36	MA-70250	20	MA-7339	5	MA-7643	56	MA-8400	29	MA-9609	31
MA-6196	36	MA-70251	20	MA-73532	32	MA-7644	56	MA-84002	46	MA-9610	31
MA-6197	36	MA-70252	30	MA-73815	20	MA-7645	56	MA-8401	29	MA-9611	31
MA-6198	36	MA-70253	30	MA-73820	20	MA-7646	56	MA-8408	29	MA-9612	31
MA-6202BX	11	MA-70254	30	MA-73830	20	MA-7647	56	MA-8410	38	MA-9613	31
MA-6203BX	11	MA-70255	30	MA-7409	6	MA-7648	55	MA-8411	38	MA-9614	31
MA-62044	22	MA-70256	30	MA-74213	22	MA-7649	55	MA-8412	38	MA-9615	31
MA-6204BX	11	MA-70257	30	MA-748325A	22	MA-7650	55	MA-8414	38	MA-9616	31
MA-6205BX	11	MA-70343	22	MA-7514	56	MA-7651	55	MA-8415	38	MA-9617	31
MA-6206BX	11	MA-70474	22	MA-7515	56	MA-7652	55	MA-8646L	32	MA-9618	31
MA-63223	22	MA-70615	20	MA-7518	55	MA-7653TR	55	MA-8646M	32	MA-9619	31



PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #
MA-9620	31	MA-A038	52	MA-AP8SD	26	MA-BN126	18	MA-BTG54VL	51	MA-CL1	26
MA-9621	31	MA-A048	52	MA-AT12	10	MA-BN12CL	18	MA-BTG54VLW	51	MA-CP1	45
MA-9622	31	MA-AA45E	30	MA-AT14	10	MA-BN13	18	MA-BTGDB	51	MA-CP2	45
MA-9623	31	MA-AA46V	30	MA-AT14-5	10	MA-BN1312	18	MA-BTGDK	51	MA-CP35-120	45
MA-9624	31	MA-AA47R	30	MA-AT18	10	MA-BN14	18	MA-BTGEK	51	MA-CP35-240	45
MA-9625	31	MA-ABC-1	13	MA-AT18-5	10	MA-BN1412	18	MA-BTGK	51	MA-CP52-120	45
MA-9626	31	MA-ABC-10	13	MA-AT316	10	MA-BN15	18	MA-BTGKM	51	MA-CP52-240	45
MA-9627	31	MA-ABC-12	13	MA-AT316-5	10	MA-BN1512	18	MA-BTGRK	51	MA-CSSC21-12	43
MA-9628	31	MA-ABC-15	13	MA-AT38	10	MA-BN16	18	MA-BTGUK2	51	MA-CSSC21-18	43
MA-9629	31	MA-ABC-2	13	MA-AT38-5	10	MA-BN1CL	18	MA-BTGUM	51	MA-CSSC21-24	43
MA-9630	31	MA-ABC-20	13	MA-AT516	10	MA-BN34112	18	MA-BTGUWM	51	MA-CSSC21-36	43
MA-9631	31	MA-ABC-3	13	MA-AT58	10	MA-BN342	18	MA-C2242	48	MA-CSSC21-48	43
MA-9632	31	MA-ABC-30	13	MA-AT716	10	MA-BN34212	18	MA-C6408	48	MA-CSSC21-60	43
MA-9633	31	MA-ABC-5	13	MA-ATC10	13	MA-BN343	18	MA-C6433	48	MA-CSSC21-72	43
MA-9634	31	MA-ABC-6	13	MA-ATC15	13	MA-BN34312	18	MA-C6435B	48	MA-CSSC54-12	43
MA-9635	31	MA-ABC-8	13	MA-ATC2	13	MA-BN344	18	MA-C6435BR	48	MA-CSSC54-18	43
MA-9636	31	MA-AC14	46	MA-ATC20	13	MA-BN34412	18	MA-C6435G	48	MA-CSSC54-24	43
MA-9637	31	MA-AGC-1	13	MA-ATC25	13	MA-BN345	18	MA-C6435GN	48	MA-CSSC54-36	43
MA-9638	31	MA-AGC-1/2	13	MA-ATC3	13	MA-BN34512	18	MA-C6435O	48	MA-CSSC54-48	43
MA-9639	31	MA-AGC-1/32	13	MA-ATC30	13	MA-BN346	18	MA-C6435R	48	MA-CSSC54-60	43
MA-9640	31	MA-AGC-1/4	13	MA-ATC4	13	MA-BN34CL	18	MA-C6435W	48	MA-CSSC54-72	43
MA-9641	31	MA-AGC-10	13	MA-ATC5	13	MA-BP112	18	MA-C6435Y	48	MA-CSSD54-12	43
MA-9642	31	MA-AGC-11/2	13	MA-ATC7.5	13	MA-BP118	18	MA-C6488	48	MA-CSSD54-18	43
MA-9643	31	MA-AGC-11/4	13	MA-BC1	11	MA-BP1212	18	MA-C950	48	MA-CSSD54-24	43
MA-9644	31	MA-AGC-15	13	MA-BC112	11	MA-BP1218	18	MA-C950-4	48	MA-CSSD54-36	43
MA-9645	31	MA-AGC-2	13	MA-BC114	11	MA-BP1224	18	MA-CCW403	50	MA-CSSD54-48	43
MA-9646	31	MA-AGC-20	13	MA-BC12	11	MA-BP1230	18	MA-CCW404	50	MA-CSSD54-60	43
MA-9647	31	MA-AGC-21/2	13	MA-BC14	11	MA-BP1236	18	MA-CCW504	50	MA-CSSD54-72	43
MA-9648	31	MA-AGC-25	13	MA-BC2	11	MA-BP124	18	MA-CCW505	50	MA-CT1	48
MA-9649	31	MA-AGC-3	13	MA-BC34	11	MA-BP1248	18	MA-CCW550	50	MA-CVT1	10
MA-9650	31	MA-AGC-3/4	13	MA-BC38	11	MA-BP1260	18	MA-CCW605	50	MA-CVT12	10
MA-9651	31	MA-AGC-30	13	MA-BDHTR	9	MA-BP130	18	MA-CCW606	50	MA-CVT14	10
MA-9652	31	MA-AGC-4	13	MA-BDIOT	9	MA-BP136	18	MA-CCW703	50	MA-CVT316	10
MA-9653	31	MA-AGC-5	13	MA-BF1	47	MA-BP148	18	MA-CF1	11	MA-CVT34	10
MA-9654	31	MA-AGC-6	13	MA-BFC	47	MA-BP160	18	MA-CF-100	11	MA-CVT38	10
MA-9655	31	MA-AGC-7	13	MA-BI4	46	MA-BP3412	18	MA-CF-50	11	MA-CVT58	10
MA-9656	31	MA-AGC-8	13	MA-BI6	46	MA-BP3418	18	MA-CH100	45	MA-CVT78	10
MA-9657	31	MA-AGC-9	13	MA-BN12	18	MA-BP3424	18	MA-CH101	45	MA-CW300	50
MA-9658	31	MA-AH8512	33	MA-BN12112	18	MA-BP3430	18	MA-CH101-1	45	MA-CW301	50
MA-9659	31	MA-AL9V	21	MA-BN1212	18	MA-BP3436	18	MA-CH101-2	45	MA-CW401	50
MA-9660	31	MA-ALAA	21	MA-BN122	18	MA-BP3448	18	MA-CH101-3	45	MA-CW406	50
MA-9661	31	MA-ALAAA	21	MA-BN12212	18	MA-BP3460	18	MA-CH102	45	MA-CW501	50
MA-9662	31	MA-ALC	21	MA-BN123	18	MA-BT1	11	MA-CH102-1	45	MA-CW502	50
MA-9663	31	MA-ALD	21	MA-BN12312	18	MA-BT112	11	MA-CH102-2	45	MA-CW503	50
MA-9664	31	MA-AN84	5	MA-BN124	18	MA-BT114	11	MA-CH103	45	MA-CW601	50
MA-9665	31	MA-AP132	21	MA-BN12412	18	MA-BT12	11	MA-CH103-2	45	MA-CW650	50
MA-99	52	MA-AP3172	21	MA-BN125	18	MA-BT2	11	MA-CH135	45	MA-CW655	50
MA-9LN	28	MA-AP890	29	MA-BN12512	18	MA-BT34	11	MA-CIMK2	46	MA-CW665	50

PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #
MA-CW701	50	MA-DT34	11	MA-E272	58	MA-E4PL	15	MA-ECNR15	12	MA-FLS0425	52
MA-CW801	50	MA-E0PL	15	MA-E273	58	MA-E504	58	MA-ECNR20	12	MA-FLS0450	52
MA-CW802	50	MA-E100	14	MA-E273-100	15	MA-E508D	58	MA-ECNR200	12	MA-FM50	49
MA-D100040	20	MA-E10090	14	MA-E27325	15	MA-E508T	58	MA-ECNR25	12	MA-FM55	49
MA-D102420	20	MA-E104A	15	MA-E274	58	MA-E509	58	MA-ECNR3.2	12	MA-FM554A	49
MA-D102422	20	MA-E105	15	MA-E28	16	MA-E5090A	14	MA-ECNR30	12	MA-FNM10	13
MA-D115	57	MA-E106	15	MA-E29	16	MA-E50A	14	MA-ECNR35	12	MA-FNM12	13
MA-D120	57	MA-E107	15	MA-E298-21	16	MA-E51	15	MA-ECNR40	12	MA-FNM15	13
MA-D130	57	MA-E10S	16	MA-E298-31	16	MA-E52PL	16	MA-ECNR45	12	MA-FNM20	13
MA-D130040	20	MA-E110	15	MA-E298-32	16	MA-E554	58	MA-ECNR5	12	MA-FNM25	13
MA-D140	57	MA-E110-1	15	MA-E298-41	16	MA-E560	58	MA-ECNR50	12	MA-FNM30	13
MA-D150	57	MA-E110-2	15	MA-E298-42	16	MA-E564	58	MA-ECNR6.25	12	MA-FNM35	13
MA-D160	57	MA-E110-3	15	MA-E298-43	16	MA-E57	15	MA-ECNR60	12	MA-FNM40	13
MA-D215	57	MA-E110-4	15	MA-E298-51	16	MA-E570	58	MA-ECNR70	12	MA-FNQ10	13
MA-D220	57	MA-E110-5	15	MA-E298-52	16	MA-E571	58	MA-ECNR80	12	MA-FNQ12	13
MA-D230	57	MA-E121	16	MA-E298-53	16	MA-E572	58	MA-ECSR10	12	MA-FNQ15	13
MA-D240	57	MA-E122	16	MA-E298-54	16	MA-E573	58	MA-ECSR100	12	MA-FNQ20	13
MA-D250	57	MA-E123	16	MA-E2PL	15	MA-E574	58	MA-ECSR125	12	MA-FNQ25	13
MA-D260	57	MA-E124	16	MA-E2PL-1	15	MA-E575	58	MA-ECSR15	12	MA-FNQ30	13
MA-D300040	20	MA-E125	16	MA-E2PL25	15	MA-E58	15	MA-ECSR150	12	MA-FRNR1	12
MA-D304040	20	MA-E12590	14	MA-E30	16	MA-E584	58	MA-ECSR20	12	MA-FRNR1.25	12
MA-D309015	20	MA-E126	16	MA-E303	58	MA-E59	16	MA-ECSR200	12	MA-FRNR1.6	12
MA-D309020	20	MA-E127	16	MA-E303D	58	MA-E590	58	MA-ECSR25	12	MA-FRNR10	12
MA-D309030	20	MA-E128	16	MA-E304EXT	58	MA-E594	58	MA-ECSR30	12	MA-FRNR100	12
MA-D321040	20	MA-E129	16	MA-E350EXT	58	MA-E5S	16	MA-ECSR35	12	MA-FRNR110	12
MA-D323015	20	MA-E130	16	MA-E352	58	MA-E60PL	16	MA-ECSR40	12	MA-FRNR12	12
MA-D323020	20	MA-E144-1	16	MA-E353	58	MA-E61PL	16	MA-ECSR45	12	MA-FRNR125	12
MA-D323030	20	MA-E144-2	16	MA-E353D	58	MA-E65PL	16	MA-ECSR50	12	MA-FRNR15	12
MA-D400040	20	MA-E15090	14	MA-E363D	58	MA-E69PL	16	MA-ECSR60	12	MA-FRNR150	12
MA-DE904	52	MA-E1PL	15	MA-E37-1	16	MA-E75	14	MA-ECSR70	12	MA-FRNR175	12
MA-DM1	2	MA-E200	58	MA-E37-2	16	MA-E7590	14	MA-ECSR80	12	MA-FRNR2	12
MA-DMT123	8	MA-E200EXT	58	MA-E37-3	16	MA-E7S	16	MA-ECSR90	12	MA-FRNR2.5	12
MA-DMT123KIT	8	MA-E201	58	MA-E374	58	MA-E80	16	MA-EM3213A	5	MA-FRNR20	12
MA-DMT3	2	MA-E201-3/4	58	MA-E374D	58	MA-E81	16	MA-EM3215	5	MA-FRNR200	12
MA-DMTK	2	MA-E202	58	MA-E376	16	MA-E82	16	MA-ETP110	9	MA-FRNR225	12
MA-DMTKA	2	MA-E21	16	MA-E377	16	MA-E83	16	MA-EXT4	42	MA-FRNR25	12
MA-DMTK1	2	MA-E22	16	MA-E378	16	MA-E900	16	MA-F336	51	MA-FRNR3.2	12
MA-DMTL	2	MA-E23	16	MA-E379	16	MA-E901	16	MA-FA134	32	MA-FRNR30	12
MA-DMTL1	2	MA-E2390-2	16	MA-E380	16	MA-E902	16	MA-FB2	27	MA-FRNR35	12
MA-DMTP	2	MA-E24	16	MA-E3PL	15	MA-E903	16	MA-FD30A	14	MA-FRNR4	12
MA-DP244	52	MA-E25	16	MA-E3PL-1	15	MA-E904	16	MA-FD60A	14	MA-FRNR40	12
MA-DS4	46	MA-E251	58	MA-E3PL25	15	MA-E96-1CG	16	MA-FL13089A	21	MA-FRNR45	12
MA-DS6	46	MA-E252	58	MA-E42-1	15	MA-E96-2CG	16	MA-FL28L	21	MA-FRNR5	12
MA-DT1	11	MA-E253	58	MA-E42-2	15	MA-E96-4CG	16	MA-FL32LED	21	MA-FRNR50	12
MA-DT112	11	MA-E254	58	MA-E42-3	15	MA-E96-5CG	16	MA-FL3A	21	MA-FRNR6.25	12
MA-DT114	11	MA-E255	58	MA-E42-4	15	MA-ECNR10	12	MA-FL3-M	21	MA-FRNR60	12
MA-DT12	11	MA-E26	16	MA-E42-5	15	MA-ECNR100	12	MA-FL460	21	MA-FRNR70	12
MA-DT2	11	MA-E27	16	MA-E48	15	MA-ECNR125	12	MA-FLS0325	52	MA-FRNR8	12

PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #
MA-FRNR80	12	MA-HML7	21	MA-LC20E	14	MA-MDL-6	13	MA-NON45	12	MA-NW346	11
MA-FRNR90	12	MA-HP3	42	MA-LC43D	14	MA-MDL-7	13	MA-NON50	12	MA-NW346-C	11
MA-FRSR1	12	MA-HP3-2P	42	MA-LC43E	14	MA-MDL-8	13	MA-NON6	12	MA-NW348	11
MA-FRSR1.25	12	MA-HP6	42	MALS-105A	53	MA-MFC1	27	MA-NON60	12	MA-NW348-C	11
MA-FRSR1.6	12	MA-HP6-2P	42	MALS-105A-P	53	MA-MFC2	27	MA-NON70	12	MA-OV24-3	21
MA-FRSR10	12	MA-HRFT1	9	MALS-125E1	53	MA-MFC3	27	MA-NON80	12	MA-OVN1	9
MA-FRSR100	12	MA-HS4B	51	MALS-135A	53	MA-MGT1	31	MA-NS1	26	MA-P4012W	14
MA-FRSR110	12	MA-HS4W	51	MALS-135A-P	53	MA-MGT2	31	MA-NS1000	26	MA-P4034W	14
MA-FRSR12	12	MA-HSB4B	51	MALS-160E1	53	MA-MHG-2	5	MA-NS12	26	MA-P6012W	14
MA-FRSR125	12	MA-HSB4W	51	MALS-190A	53	MAMJ-120	54	MA-NS14	26	MA-P6034W	14
MA-FRSR15	12	MA-HS50	45	MALS-190A-P	53	MAMJ-120-P	54	MA-NS16	26	MA-PAK-1	40
MA-FRSR150	12	MA-HT1	47	MALS-210E1	53	MAMJ-40	54	MA-NS18	26	MA-PAK-2	40
MA-FRSR175	12	MA-HT64	47	MALS-210E2	53	MAMJ-40-P	54	MA-NS2	26	MA-PAK-3	40
MA-FRSR2	12	MA-HTSS-R	47	MALS-240A	53	MAMJ-70	54	MA-NS2000	26	MA-PDT392B	8
MA-FRSR2.5	12	MA-HU1	46	MALS-280E1	53	MAMJ-70-P	54	MA-NS22	26	MA-PG1	50
MA-FRSR20	12	MA-HWA02	11	MALS-280E2	53	MAMJ-90	54	MA-NS24	26	MA-PH100	11
MA-FRSR200	12	MA-HWA05	11	MALS-320A	53	MAMJ-90-P	54	MA-NS26	26	MA-PH50	11
MA-FRSR225	12	MA-HWG02	11	MALS-360E2	53	MA-MMD3E	6	MA-NS28	26	MAPLP-1000	54
MA-FRSR25	12	MA-HWG05	11	MALS-410A	53	MA-MSC4100	52	MA-NS32	26	MAPLP-1290E1	54
MA-FRSR3.2	12	MA-IC13	23	MALS-50E1	53	MA-MT53	29	MA-NS36	26	MAPLP-1500	54
MA-FRSR30	12	MA-IC15	23	MALS-540E2	53	MA-MT62	29	MA-NS40	26	MAPLP-1720E2	54
MA-FRSR35	12	MA-IM12	6	MALS-55A	53	MA-MY69	2	MA-NSPD1	26	MAPLP-2000	54
MA-FRSR4	12	MA-IM24	6	MALS-55A-P	53	MA-N12	46	MA-NW110	11	MAPLP-2150E2	54
MA-FRSR40	12	MA-IM30	6	MALS-95E1	53	MA-N14	46	MA-NW1126	11	MAPLP-2500	54
MA-FRSR45	12	MA-IMK1	46	MA-LT125	14	MA-N38	46	MA-NW1126-C	11	MAPLP-2580E3	54
MA-FRSR5	12	MA-IRT203B	7	MA-LT150	14	MA-N516	46	MA-NW1128	11	MAPLP-3000	54
MA-FRSR50	12	MA-J100	45	MA-MC123	33	MA-NAT18-5	10	MA-NW1128-C	11	MAPLP-380	54
MA-FRSR6.25	12	MA-J1500	11	MA-MC22C	15	MA-NAT316	10	MA-NW11410	11	MAPLP-430E	54
MA-FRSR60	12	MA-J2000	11	MA-MC23C	15	MA-NAT316-5	10	MA-NW1146	11	MAPLP-500	54
MA-FRSR70	12	MA-J3000	11	MA-MC42C	15	MA-NFD60A	14	MA-NW1146-C	11	MAPLP-600	54
MA-FRSR8	12	MA-J4000	11	MA-MC43C	15	MA-NG2000-B	6	MA-NW1148	11	MAPLP-640E	54
MA-FRSR80	12	MA-K1	11	MA-MC450	52	MA-NMLT50	14	MA-NW1148-C	11	MAPLP-750	54
MA-FRSR90	12	MA-K112	11	MA-MDL-1	13	MA-NMLT75	14	MA-NW1210	11	MAPLP-860E	54
MA-FT1	48	MA-K114	11	MA-MDL-1/2	13	MA-NMLT9050	14	MA-NW124	11	MA-PS120	8
MA-GF1	11	MA-K12	11	MA-MDL-1/4	13	MA-NMLT9075	14	MA-NW124-C	11	MA-PS220	8
MA-GF-100	11	MA-K2	11	MA-MDL-10	13	MA-NON1	12	MA-NW126	11	MA-PT110C	8
MA-GF-50	11	MA-K212	11	MA-MDL-11/4	13	MA-NON10	12	MA-NW126-C	11	MA-PT134160	8
MA-GH25	10	MA-K3	11	MA-MDL-15	13	MA-NON100	12	MA-NW128	11	MA-PT134220	8
MA-GH50	10	MA-K34	11	MA-MDL-2	13	MA-NON15	12	MA-NW128-C	11	MA-PT138160	8
MA-GL10	28	MA-KC710	29	MA-MDL-20	13	MA-NON150	12	MA-NW14	11	MA-PT138220	8
MA-HDT1	10	MA-KN74HD	29	MA-MDL2-1/2	13	MA-NON175	12	MA-NW14-C	11	MA-PT14	10
MA-HDT12	10	MA-KVS007	29	MA-MDL-25	13	MA-NON20	12	MA-NW16	11	MA-PT160	8
MA-HDT14	10	MA-KVS008	29	MA-MDL-3	13	MA-NON200	12	MA-NW16-C	11	MA-PT160B	8
MA-HDT316	10	MA-L42	30	MA-MDL-3.2	13	MA-NON25	12	MA-NW18	11	MA-PT220	8
MA-HDT34	10	MA-L42RB	30	MA-MDL-3/4	13	MA-NON3	12	MA-NW18-C	11	MA-PT220B	8
MA-HDT38	10	MA-L50	30	MA-MDL-30	13	MA-NON30	12	MA-NW3410	11	MA-PT38	10
MA-HDT58	10	MA-L50RB	30	MA-MDL-4	13	MA-NON35	12	MA-NW344	11	MA-PT550	8
MA-HDT78	10	MA-LC20D	14	MA-MDL-5	13	MA-NON40	12	MA-NW344-C	11	MA-PT70C	8

PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #
MA-PVC27	30	MA-S10A	12	MASF-175	53	MA-SR402A-50	44	MA-SVHAW4	51	MA-THHNS-12R	39
MA-PVC42	30	MA-S11/4A	12	MASF-175-P	53	MA-SR402B	44	MA-SVHUB4	51	MA-THHNS-12W	39
MA-Q115	57	MA-S12A	12	MASF-235	53	MA-SR402B-50	44	MA-SVHUW4	51	MA-THHNS-14B	39
MA-Q120	57	MA-S14	46	MASF-235-P	53	MA-SR404A	44	MA-SVOM18	17	MA-THHNS-14G	39
MA-Q125	57	MA-S144	49	MASF-305	53	MA-SR404A-50	44	MA-SW70C-6	61	MA-THHNS-14R	39
MA-Q130	57	MA-S15A	12	MASF-305-P	53	MA-SR406A	44	MA-T1005	30	MA-THHNS-14W	39
MA-Q140	57	MA-S16A	12	MA-SH1500	11	MA-SR406A-50	44	MA-T1007	30	MA-TL15A	12
MA-Q150	57	MA-S1A	12	MA-SH2000	11	MA-SR407C	44	MA-T1010	30	MA-TL20A	12
MA-Q160	57	MA-S20A	12	MA-SH3000	11	MA-SR407C-50	44	MA-T1057	30	MA-TL25A	12
MA-Q2100	57	MA-S21/2A	12	MA-SH4000	11	MA-SR408A	44	MA-T10A	12	MA-TL30A	12
MA-Q2125	57	MA-S25	30	MA-SHCFC123	44	MA-SR408A-50	44	MA-T11/4A	12	MATM-100	54
MA-Q215	57	MA-S25A	12	MA-SHCFC123-50	44	MA-SR409A	44	MA-T12A	12	MATM-100-P	54
MA-Q220	57	MA-S25RB	30	MA-SL15A	12	MA-SR409A-50	44	MA-T15A	12	MATM-135	54
MA-Q225	57	MA-S2A	12	MA-SL20A	12	MA-SR410A	44	MA-T16A	12	MATM-135-P	54
MA-Q230	57	MA-S30	49	MA-SL25A	12	MA-SR410A-50	44	MA-T1A	12	MATM-180	54
MA-Q240	57	MA-S3003	6	MA-SL30A	12	MA-SR417A	44	MA-T20A	12	MATM-180-P	54
MA-Q250	57	MA-S31A	12	MA-SM6	6	MA-SR417A-50	44	MA-T21/2A	12	MATM-250	54
MA-Q260	57	MA-S32A	12	MA-SM7	6	MA-SR421A	44	MA-T25A	12	MATM-250-P	54
MA-Q270	57	MA-S38	46	MA-SM8	6	MA-SR421A-50	44	MA-T2A	12	MA-TN5044	25
MA-Q280	57	MA-S4A	12	MA-SMO1	44	MA-SR422B	44	MA-T30A	12	MA-TN5044-100	25
MA-Q290	57	MA-S5A	12	MA-SMO1-50	44	MA-SR422B-50	44	MA-T32A	12	MA-TN5044-25	25
MA-QP400	28	MA-S60	49	MA-SN5795	33	MA-SR422D	44	MA-T4A	12	MA-TN5044-50	25
MA-QP400-12	28	MA-S61/4A	12	MA-SN8512	33	MA-SR422D-50	44	MA-T5A	12	MA-TN5066	25
MA-QP400-G	28	MA-S6A	12	MA-SNAT316-5	10	MA-SR438A	44	MA-T61/4A	12	MA-TN5066-100	25
MA-QT1515	57	MA-S8A	12	MA-SND80	5	MA-SR438A-50	44	MA-T7A	12	MA-TN5066-25	25
MA-QT1520	57	MA-SAB1	44	MA-SOC19	27	MA-SR500	44	MA-T8A	12	MA-TN5066-50	25
MA-QT2020	57	MA-SAB1-50	44	MA-SOC19-MET	27	MA-SR500-50	44	MA-THHN10B	39	MA-TN5088	25
MA-QT2030	57	MA-SC10	13	MA-SPA1	44	MA-SR502	44	MA-THHN10G	39	MA-TN5088-100	25
MA-QT3030	57	MA-SC1200CF	33	MA-SPA1-50	44	MA-SR502-50	44	MA-THHN10R	39	MA-TN5088-25	25
MA-REF401C	45	MA-SC15	13	MA-SPO1	44	MA-SR507	44	MA-THHN10W	39	MA-TN5088-50	25
MA-REF401F	45	MA-SC150CF	33	MA-SPO1-50	44	MA-SR507-50	44	MA-THHN12B	39	MA-TN51212	25
MA-REF700	45	MA-SC20	13	MA-SR11	44	MA-SRECT	44	MA-THHN12G	39	MA-TN51212-100	25
MA-RS300	49	MA-SC25	13	MA-SR11-50	44	MA-SRECT-50	44	MA-THHN12R	39	MA-TN51212-25	25
MA-RT1	9	MA-SC30	13	MA-SR113	44	MA-SRT14-5	10	MA-THHN12W	39	MA-TN51212-50	25
MA-RT330	8	MA-SC35	13	MA-SR113-50	44	MA-SRT18-5	10	MA-THHN14B	39	MA-TR12	46
MA-RT335	8	MA-SC40	13	MA-SR114	44	MA-SRT316-5	10	MA-THHN14G	39	MA-TR14	46
MA-RT340	8	MA-SC45	13	MA-SR114-50	44	MA-SRU	13	MA-THHN14R	39	MA-TR38	46
MA-RT340LS	8	MA-SC50	13	MA-SR12	44	MA-SRY	13	MA-THHN14W	39	MA-TR516	46
MA-RT343	7	MA-SC5000CF	33	MA-SR12-50	44	MA-SSC-CK	47	MA-THHN8B	39	MA-TX100	34
MA-RT8100	9	MA-SC60	13	MA-SR134A	44	MA-SSG-CK	47	MA-THHN8G	39	MA-TX202	34
MA-RT8101	9	MA-SC600CF	33	MA-SR134A-50	44	MA-SSU	13	MA-THHN8R	39	MA-TX205	34
MA-RT818	8	MA-SDB2	26	MA-SR22	44	MA-SSW	13	MA-THHN8W	39	MA-TX402	34
MA-RT819	8	MA-SDB8	26	MA-SR22-50	44	MA-SSW-CK	47	MA-THHNS-10B	39	MA-TX403	34
MA-RT900	7	MA-SDF1	44	MA-SR401A	44	MA-SSX	13	MA-THHNS-10G	39	MA-TX404	34
MA-RVHAB4	51	MASF-105	53	MA-SR401A-50	44	MA-SSY	13	MA-THHNS-10R	39	MA-TX405	34
MA-RVHAW4	51	MASF-105-P	53	MA-SR401B	44	MA-ST200	7	MA-THHNS-10W	39	MA-TX406	34
MA-RVHUB4	51	MASF-135	53	MA-SR401B-50	44	MA-SUT45	9	MA-THHNS-12B	39	MA-TX407	34
MA-RVHUW4	51	MASF-135-P	53	MA-SR402A	44	MA-SVHAB4	51	MA-THHNS-12G	39	MA-TX482	34

PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #
MA-TX501	34	QO115	57								
MA-TX502	34	QO120	57								
MA-TX775	34	QO130	57								
MA-TX779	34	QO140	57								
MA-UO65P010	14	QO150	57								
MA-UBGBB	52	QO160	57								
MA-UBGBW	52	QO215	57								
MA-UVFL15-1	21	QO220	57								
MA-V1	17	QO230	57								
MA-V2	17	QO240	57								
MA-VID-1	6	QO250	57								
MA-VID-2	6	QO260	57								
MA-VIMK2	46	T 002	44								
MA-VIMK3	46	T 003	44								
MA-VIMK4	46	T 018	44								
MA-VTC1	26	T 019	44								
MA-W10A	12	T 0210	44								
MA-W12	46	T 0220	44								
MA-W14	46	T 0230	44								
MA-W38	46	T 0240	44								
MA-W3A	12	T 027	44								
MA-W455	10	T 032	44								
MA-W516	46	T 076	44								
MA-W5A	12	T 080	44								
MA-W6A	12	T 085	44								
MA-W8A	12	VE118OD	35								
MA-WHP22	45	VE12OD	35								
MA-WHP24	45	VE138OD	35								
MA-WHP26	45	VE14OD	35								
MA-WHP28	45	VE158OD	35								
MA-WHP32	45	VE218OD	35								
MA-WP1	45	VE258OD	35								
MA-WR6	27	VE318OD	35								
MA-WR8	27	VE34OD	35								
MA-WR10	27	VE358OD	35								
MA-WR12	27	VE38OD	35								
MA-WR681012	27	VE418OD	35								
MA-WTJ1	40	VE58OD	35								
MA-WU17	46	VE78OD	35								
MA-WU21	46										
MAXICAP3R	43										
MAXICAP5R	43										
MAXICAP7R	43										
MA-XL80-25	61										
MA-XL80-5	61										
MA-XP5	14										
MA-XP6	14										
MA-XP8	14										

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