

EDITION 2015



SPECIALTY PRODUCTS FOR THE HVAC & R INDUSTRY

**FULL-LINE
PRODUCT
CATALOG**

2015

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-600CFA



MA-CO801



MA-33C

THERMOMETERS ASSORTED TYPES AVAILABLE

DIAL
DIGITAL



MA-RT819



MA-RT900



MA-PDT392B

SERVICE TOOLS



MA-QP400

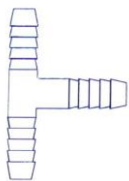


MA-49317



MA-FB2

VARIETY OF FITTINGS



NYLON FITTINGS
ELBOWS
ADAPTORS
TEES
BUSHINGS....



AF1200



KNIVES



HAND TOOLS



TEST LEADS



WIRE
TIES



WIRE
CONNECTORS

R
A
C
K

D
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O
N
S



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

SPINNING DISPLAY RACK MA06007-1R

D
I
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S



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

COUNTER DISPLAY RACK CR-RACK

INSPECTION MIRRORS VARIETY OF SHAPE & SIZES AVAILABLE



MA-149



MA-IM24



MA-142A

FLASHLIGHTS HEADLAMPS & WORKLIGHTS ALSO AVAILABLE



MA-AP3172



MA-FL460

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-33C
PALM SIZE DIGITAL
MULTI-METER

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



MA-MY69
AUTO-RANGING
DIGITAL
MULTI - METER

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



MA-12700A
MEGOHMMETER
AUTO-RANGING
INSULATION TESTER

INCLUDES:
TEST LEADS, CASE, MANUAL
& (6) AA BATTERIES



MA-12817B
DIGITAL
MULTI-METER
WITH TEMPERATURE

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

MECHANICAL
DOORS TO
PREVENT
WRONG
HOOK-UP



MA-12827
COMPACT DIGITAL
MULTI-METER

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



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

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



MA-12829
AUTO-RANGING
DIGITAL
MULTI-METER

INCLUDES:
MA-DMTL1, MA-DMTK1, CASE,
MANUAL & (1) 9V BATTERY



MA-12818
DIGITAL
MULTI-METER

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

MECHANICAL
DOORS TO
PREVENT
WRONG
HOOK-UP

FUNCTION	MA-33C	MA-MY69	MA-12700A	MA-12817B	MA-12827	MA-12837	MA-12829	MA-12818
DCV	200mV, 2000mV, 20V, 200V, 500V	400mV - 1000V	0.1mV	200mV, 2V, 20V, 200V, 1000V	1000V	600V	1000V	200mV, 2V, 20V, 200V, 1000V
ACV (50/60Hz)	200V, 500V	400mV - 750V	100V, 250V, 500V, 1000V	200mV, 2V, 20V, 200V, 700V	1000V	600V	1000V	2V, 20V, 200V, 700V
DCA	2000µA, 20mA, 200mA, 10A	400uA - 10A		2mA, 20mA, 200mA, 10A	10A		10A	2mA, 200mA, 10A
ACA		400uA - 10A		2mA, 20mA, 200mA, 10A	10A		10A	20mA, 200mA, 10A
RESISTANCE	200Ω, 2000Ω, 20kΩ, 200kΩ, 20MΩ	400Ω - 40MΩ	1MΩ - 20GΩ	200Ω, 2kΩ, 20kΩ, 200kΩ, 2MΩ, 20MΩ, 200MΩ	40MΩ	60MΩ	40MΩ	200Ω, 2kΩ, 20kΩ, 200kΩ, 2MΩ, 20MΩ, 200MΩ
TEMPERATURE	-40F TO 1832F (-40C TO 1000C)	-4F - 1400F (-20C - 750C)		-40F TO 1832F (-40C TO 1000C)	-58F TO 1832F (-50C TO 1000C)		-58F TO 1832F (-50C TO 1000C)	-20F TO 1832F (-29C TO 1000C)
CAPACITANCE		4nF - 200uF		2nF, 20nF, 200nF, 2uF, 200uF	200uF	30mF	100uF	20nF, 200nF, 20µF, 2000µF
FREQUENCY		100Hz - 10MHz		20kHz	10MHz	100kHz	10MHz	2000kHz
DUTY CYCLE		.1% - 99.9%			99.9%	99.9%	99.9%	
DIODE TEST		*				*		
TRANSISTOR TEST		*						
CONTINUITY		*	*			*		



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

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

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



MA-DMTL
TEST LEADS



MA-12361
IMMERSION PROBE
MA-12362
AIR PROBE



MA-DMTL1
PROTECTIVE COVER
TEST LEADS



MA-DMTP
TEMPERATURE
PROBE



MA-DMTK
K-PROBE



MA-DMTKA
ADAPTOR FOR
THE MA-DMTK



MA-DMTK1
K-PROBE WITH
ADAPTOR

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

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

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



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





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

JAW OPENING: 1-1/8"
INCLUDES:
MA-DMTL1, MA-DMTK, CASE,
MANUAL & (1) 9V BATTERY



MA-12813
DELUXE DIGITAL
CLAMP-ON METER

JAW OPENING : 1-1/2"
INCLUDES :
MA-DMTL1, MA-DMTP, CASE,
MANUAL & (1) 9V BATTERY



MA-821
DIGITAL
CLAMP-ON METER

JAW OPENING: 1-1/4"
INCLUDES:
MA-DMTL, CASE, MANUAL
& (2) AAA BATTERIES



MA-823
DIGITAL CLAMP-ON
METER

WITH TEMPERATURE
JAW OPENING: 1-1/4"
INCLUDES:
MA-DMTL1, MA-DMTK1, CASE,
MANUAL & (2) AAA BATTERIES



MA-12826A
HVAC DIGITAL
CLAMP-ON METER

JAW OPENING : 3/4"
INCLUDES :
MA-DMTL1, MA-DMTP, CASE,
MANUAL & (2) AAA BATTERIES

FLAME SAFE
GUARD
CIRCUITS
WITH MAGNET



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

JAW OPENING: 2-1/4"
INCLUDES:
MA-DMTL1, MA-DMTK,
CASE, MANUAL & (1) 9V BATTERY

FUNCTION	MA-600CF	MA-12813	MA-821	MA-823	MA-12822A	MA-12826A
DCV	200mV, 20V, 20V, 200V, 600V	600V	600V	40mV - 600V	400mV, 4V, 40V, 400V, 700V	600V
ACV	2V, 20V, 200V, 600V	600V	600V	4V - 600V	4V, 40V, 400V, 1000V	600V
DCA		200A, 600A			400A, 1000A	4000uF
ACA	2A, 20A, 200A, 600A	200A, 600A	2A, 20A, 200A, 600A	4A - 600A	400A, 1000A	400A, 1000A
RESISTANCE	200Ω, 2kΩ, 20kΩ, 200kΩ, 2MΩ, 20MΩ	2000Ω	20K - 20MΩ	400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ		400MΩ
TEMP.	-38F TO 1750F (- 38C TO 950C)	-4F TO 2498F (-20C TO 1370C)		32F TO 752F (0 - 400C)	-58F TO 1832F (-50C TO 1000C)	-58F TO 2372F (-50C TO 1300C)
OHM					400, 4K, 40K, 400K, 4M, 40M	
CAPACITANCE				40nF, 400nF, 4uF, 100uF	40nF, 400nF, 4uF, 40uF, 100uF	100uF
FREQUENCY		50/60Hz		10HZ - 10MHZ	40, 400, 4K, 40K, 400K, 4MHz	150KHz
CONTINUITY		*	*		*	*
DIODE TEST			*	*	*	*



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

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

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

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

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

AIR PRESSURE, HUMIDITY & TEMPERATURE DATA LOGGER

MA-DLSN71



FUNCTION	MA-DLSN7	MA-16540A	MA-16542	MA-16544
ACV				26V - 600V
ACA				2A - 200A
AIR PRESSURE	300 TO 1100hPA			
TEMPERATURE	-31F TO 176F (-35C TO 80C)	-40F TO 158F (-40C TO 70C)	-40F TO 158F (-40C TO 70C)	
HUMIDITY	0 TO 100%RH	0 TO 100%RH	0 TO 100%RH	
READING MEMORY	31,998	32,000 VALUES 16,000 TEMP. 16,000 RH	32,700 VALUES 16,350 TEMP. 16,350 RH	1,000,000
MEASURING RATE	2 SEC TO 24HR	1 SEC TO 24HR	1 SEC TO 24HR	1 SEC TO 24HR
SOFTWARE	WINDOWS XP/ VISTA/ WINDOWS 7 & 8	WINDOWS 98/ 2000/2007/XP/VISTA	WINDOWS 98/ 2000/XP/ VISTA	WINDOWS 2000/ XP/VISTA
BATTERY	(1) 3.6V LITHIUM	(1) 3.6V LITHIUM	(1) 3.6V LITHIUM	(4) AAA BATTERIES



MA-16544
CLAMP-ON VOLTAGE AND CURRENT DATA LOGGER



MA-16542
TEMPERATURE AND HUMIDITY DATA LOGGER WITH DISPLAY

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



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



MA-010669
ENVIRONMENTAL KIT
INCLUDES:
(1) MA-AN84A – (1) MA-12838A –
1) MA-16531B

MA-SND80
SOUND LEVEL
METER

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



TEMP.	32F TO 122F (0 TO 50C)
CFM (CFM=ft³/min)	0-999.900
Ft./Min.	196-4900
M/S	1.00-25.00
Km/h	3.6-90.0
MPH	2.24-56.0
knots	1.94-48.5

MA-AN84A
DIGITAL MINI ANEMOMETER (CFM)
WITH MAGNET
INCLUDES: CASE, MANUAL, & (1) 9V BATTERY

TEMP.	14F TO 140F (-10C TO 60C)
CFM (CFM=ft³/min)	0-999.900
Ft./Min.	119-5900
M/S	.60-30.00
Km/h	2.2-108.00
MPH	1.4-67.0
knots	1.2-58.0

MA-12843B
DIGITAL ANEMOMETER (CFM) WITH
FLEXIBLE NECK
INCLUDES: CASE, MANUAL & (1) 9V BATTERY



-55.40 TO +55.40IN
 OF
 WATER COLUMN

inH2O	±55.40"
psi	±2
mbar	±137.8
kPa	±13.79
inHg	±0.407
mmHg	±103.4
ozin²	±32.00
ftH2O	±4.612
cmH2O	±140.6
kgcm²	±.140
bar	±.137

MA-12838A
MINI DIGITAL DUAL DIFFERENTIAL
MANOMETER WITH MAGNET
INCLUDES: FLEXIBLE TUBING, 1/8" MPT X 1/8" BARB ACCESS
FITTING, CASE, MANUAL & (1) 9V BATTERY

inH2O	±55.40"
psi	±2
mbar	±137.8
kPa	±13.79
inHg	±0.407
mmHg	±103.4
ozin²	±32.00
ftH2O	±4.612
cmH2O	±140.6
kgcm²	±.140
bar	±.137

MA-12835B
DIGITAL DUAL DIFFERENTIAL
MANOMETER WITH MAGNET
INCLUDES: FLEXIBLE TUBING, 1/8" MPT X 1/8" BARB
ACCESS FITTING, CASE, MANUAL & (1) 9V BATTERY



MA-16531B
DIGITAL
PSYCHROMETER
WITH WET BULB
AND DEW POINT
WITH MAGNET

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

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

MA-16533
DIAGNOSTIC
PSYCHROMETER
TARGETS SUPER
HEAT &
EVAPORATOR
EXIT
TEMPERATURE

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





MA-12830A
CARBON MONOXIDE
DETECTOR

0 TO 1000 PPM

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

MA-12830A-S
SENSOR ONLY

MA-CO801
CARBON MONOXIDE
DETECTOR

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

INCLUDES:
CASE, MANUAL &
(6) AAA BATTERIES



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

THIS UNIT DETECTS THE ROTARY FIELD OF THREE PHASE SYSTEMS.

MA-12701
DIGITAL PHASE
ROTATION INDICATOR
INCLUDES: TEST LEADS, CASE & MANUAL

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

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

MA-12702
MOTOR & PHASE ROTATION
INDICATOR
INCLUDES: TEST LEADS, CASE & MANUAL



MA-12815A
DIGITAL
CAPACITOR TESTER

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

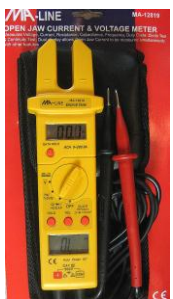
INCLUDES:
CASE, MANUAL &
(1) 9V BATTERY

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

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



MA-12821
WATT METER
FOR SINGLE PHASE
APPLICATIONS ONLY



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

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

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

MA-12842
PHOTO
NON-CONTACT
TACHOMETER

2.5 TO 99,999 RPM

INCLUDES:
CASE, MANUAL & (4) AA BATTERIES

MA-12844
REFLECTIVE
TAPE STRIPS

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





MA-7339
PEN PROBE STYLE DIGITAL MULTI-METER

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

INCLUDES :
MANUAL & (2) AAA BATTERIES

MA-12845
MICROWAVE LEAK DETECTOR

CALIBRATED: 2450MHZ
RANGE: 0-9.99 mW/cm²
WARNING VALUE: 5.0mW/cm²
INCLUDES:
CASE, MANUAL & (1) 9V BATTERY



The units LED will flash and alarm will sound when detecting leak above 5mW/cm².

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



VOLTAGE DC	200m,2V,20V,200V, 600V
VOLTAGE AC	2V,20V,200V, 600V
CURRENT DC	20, 200mA
CURRENT AC	20, 200mA
RESISTANCE	4KΩ,40KΩ, 400KΩ, 4MΩ
CAPACITANCE	40n,400n,4μ,40μ, 100μF
DIODE TEST	1.5V/.mA
CONTINUITY	*

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

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

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

MEASURES MOISTURE
FROM 0 TO 100%



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

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

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



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



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

INCLUDES:
MANUAL & (1) 9V BATTERY

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

INCLUDES:
(2) AA BATTERIES



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.





**VIDEO BORESCOPE
WITH CASE**

MA-VID-1 3' TUBE LENGTH
MA-VID-2 3' TUBE LENGTH
PLUS 10' EXTENSION

WATER RESISTANT IP67 CAMERA HEAD:
OUTER DIA. 3.93" WITH TWO DIMMABLE LEDS

LENS: F# 2.8

VIEWABLE OF ANGLE: 54°

FOCAL DISTANCE: 1-1/4" TO 2-1/4"

2.4" TFT LCD: 320 X 234 RESOLUTION

3 BUTTON OPERATION WITH UP/DOWN KEYS

PRESS UP/DOWN KEYS SIMUTANOUSLY TO
ROTATE PICTURE 180°

INCLUDES:
CASE, MANUAL & (4) AA
BATTERIES

RANGE	RESOLUTION
COLOR MOSAIC	RGB BAYER PATTERN
VIDEO FORMAT	NTSC COMPOSITE VIDEO
CAMERA ILLUMINATION	2 LEDS, WHITE
HANDLER END AVI PORT	NTSC SIGNAL OUT
TV CABLE LENGTH	APPOXIMATELY 60"
METAL TUBE LENGTH	35- 3/4"
DIAMETER OF CAMERA HEAD	OUTER DIAMETER 3.93"

**STAINLESS STEEL TELESCOPIC
MIRRORS**



MA-SM6

1-1/4" X 2" RECTANGLE
EXTENDS TO 23- 1/2"

MA-SM7

2" X 3-3/4" RECTANGLE
EXTENDS TO 26-3/4"

MA-SM8

3-3/4" ROUND
EXTENDS TO 27"



MA-IM12

**MIRROR WITH
SWIVEL HEAD
AND LIGHT**

MIRROR SWIVELS
MIRROR SIZE: 1-1/4" X 2-1/4"
TOTAL LENGTH: 18"



INCLUDES:
(2) AA BATTERIES

TELESCOPIC INSPECTION MIRRORS



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

MA-157A

MA-149

MA-142A

2-1/4" ROUND MIRROR EXTENDS TO 14-1/4"

MA-142MA

2-1/4" ROUND MIRROR MAGNIFIED INSPECTION
MIRROR EXTENDS TO 14-1/4"

MA-143A

1-1/4" ROUND MIRROR EXTENDS TO 19"

MA-143M

1-1/4" ROUND MIRROR MAGNIFIED INSPECTION
MIRROR EXTENDS TO 19"

MA-149

2-1/8" X 3-1/2" RECTANGULAR MIRROR
EXTENDS TO 15-1/2"

MA-157A

1" X 2" OVAL MIRROR EXTENDS TO 19"

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

ADJUSTS TO ANY ANGLE
MIRROR SIZE: 2" X 3-1/4"
LENGTH: 11-2/5"
EXTENDS TO: 34-1/2"

STAINLESS STEEL SHAFT
WITH VINYL GRIP HANDLE



INCLUDES:
(2) CR2032 BATTERIES

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

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

STAINLESS STEEL SHAFT
WITH VINYL GRIP HANDLE



INCLUDES:
(1) CR2032 BATTERY

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



**MA-16501 & MA-16513
HIGH & LOW
TEMPERATURE
INFRARED
THERMOMETER**



**MA-16509B
MINI INFRARED
THERMOMETER**



**MA-16551
INFRARED
THERMOMETER**



**MA-16505A
INFRARED
THERMOMETER**



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



**MA-IRT203B
SHIRT POCKET LASER
THERMOMETER**



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

FUNCTION	MA-16501	MA-16505A	MA-16506	MA-16507	MA-16509B	MA-16513	MA-16551	MA-IRT203B
TEMPERATURE	-58F TO 1832F (-50C TO 1000C)	-58F TO 1472F (-50C TO 800C)	-58F TO 1202F (-50C TO 650C)	-58F TO 1112F (-50C TO 600C)	-58F TO 1022F (-50C TO 550C)	-58F TO 932F (-50C TO 500C)	50F TO 1900F (-45C TO 1035C)	-58F TO 518F (-50C TO 270C)
K-PROBE		-58F TO 1472F (-50C TO 800C)						
RATIO	12:1	12:1	12:1	8:1	10:1	12:1	50:1	6:1
EMISSIVITY	.95 FIXED	.10 TO 1.0 ADJ.	.1 TO 1.0 ADJ.			.95 FIXED	.10 TO 1.0 ADJ.	
F/C SWITHABLE	*	*	*	*	*	*	*	*
MAX/MIN/DIF/ AVG RECORD		*					*	
DATA HOLD	*	*	*	*	*	*	*	
BACKLIGHT	*	*	*	*	*	*	*	*
AUTO SHUT OFF	*	*	*	*	*	*		*
HIGH/LOW ALARM		*					*	
BATTERY	(1) 9V	(1) 9V	(1) 9V	(1) 9V	(1) 9V	(1) 9V	(1) 9V	
CASE	*	*	*	*	*	*	*	*



MA-DMT123
DUAL PROBE DIGITAL THERMOMETER

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

F/C SWITCHABLE
4" LCD DUAL DISPLAY
RELATIVE FUNCTIONS, MIN, MAX, AVG, HOLD

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

GREAT FOR SUPER HEAT

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

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



MA-16532
2 IN 1 DIGITAL HUMIDITY AND TEMPERATURE METER

TEMPERATURE RANGE:
-4F TO 140F (-20C TO 60C)
HUMIDITY: 0 TO 100% RH
F/C SWITCHABLE
MIN, MAX, DATA HOLD FUNCTION
DUAL LCD DISPLAY – AUTO POWER OFF – BACKLIGHT BUTTON

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



MA-RT900A
HAND HELD DIGITAL THERMOMETER

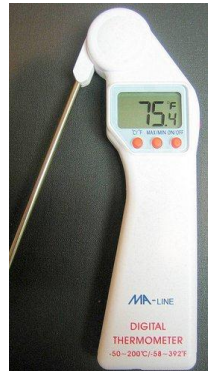
TEMPERATURE RANGE:
-58F TO 392F (-50C TO 200C)

F/C SWITCHABLE
WIDE MEASUREMENT RANGE
MIN/MAX TEMPERATURE MEMORY
DATA HOLD FUNCTION
STAINLESS STEEL PROBE
MAGNET ON BACK & FOLDING STAND
NEVER NEEDS TO BE CALIBRATED

INCLUDES:
(1) AAA BATTERY

MA-RT343
ROTARY PROBE POCKET DIGITAL THERMOMETER

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



INCLUDES:
(1) AAA BATTERY



DIGITAL THERMOMETER 180 DEGREE ROTATING HEAD

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

INCLUDES:
(1) 1.5V BATTERY

MA-RT340 WITH 5" STEM
MA-RT340LS WITH 8" STEM



MA-RT330
DIGITAL THERMOMETER
ANTI-ROLLING DESIGN

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

INCLUDES:
(1) 1.5V BATTERY

MA-RT335
DIGITAL THERMOMETER
ANTI-ROLLING OVAL DESIGN

INCLUDES:
(2) 1.5V BATTERY



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



INCLUDES:
(1) 1.5V BATTERY

TEMP. RANGE:
-40F TO 392F
(-40C TO 200C)

MA-PDT392B

POCKET DIGITAL THERMOMETER

F/C SWITCHABLE - STAINLESS STEEL STEM - ON/OFF SWITCH -
AUTO OFF - HIGH/LOW TEMPERATURE RECALL -
DATA HOLD - WATER RESISTANCE



INCLUDES:
(1) 1.5V BATTERY

TEMP. RANGE:
-40F TO 392F
(-40C TO 200C)

MA-RT818

**DIGITAL POCKET THERMOMETER
WITH LARGE DISPLAY**

F/C SWITCHABLE - STAINLESS STEEL STEM - ON/OFF SWITCH -
AUTO OFF - HIGH/LOW TEMPERATURE RECALL -
DATA HOLD - WATER RESISTANCE



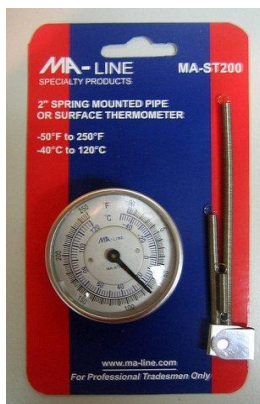
INCLUDES:
(1) AAA BATTERY

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

MA-RT819

**BIG DIGIT PEN SHAPE
HYGRO THERMOMETER**

F/C SWITCHABLE - MAX/MIN READING MEMORY -
DUAL DISPLAY FOR TEMPERATURE & HUMIDITY



MA-ST200

PIPING THERMOMETER

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

2 DIAL SPRING MOUNTED OR
SURFACE THERMOMETER
DESIGNED TO MEASURE SURFACE
TEMPERATURES OF PIPES,
CYLINDERS, SPINDLES, ETC. BETWEEN
3/4"OD TO 6"OD

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

**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

POCKET STICK THERMOMETER



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

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

FAHRENHIEIT SCALE - 5" IN LENGTH - SPIRIT FILLED

MA-12834

**DIGITAL REFRIGERANT
PRESSURE AND
TEMPERATURE CHART**

PRESSURE UNITS:
PSI, BAR, AND Mpa

FAHRENHIEIT & CELSIUS

INCLUDES: CASE, MANUAL &
(1) 3V BATTERY (CR2032)



FOR 61 REFRIGERANTS: R11, R12, R21, R22, R23, R32, R113, R114, R115, R116, R123, R124, R125, R134, R134A, R141B, R142B, R143, R143A, R152A, R176, R218, R290, R401A, R401B, R401C, R402A, R402B, R403A, R403B, R404A, R405A, R406A, R407A, R407B, R407C, R407D, R408A, R409A, R410A, R410B, R411A, R411B, R412A, R413A, R414A, R414B, R501, R502, R503, R504, R507, R508B, R509A, R600, R600A, R601, R601A, R717, R744

MA-12836

**INFRARED THERMOMETER &
REFRIGERANT
PRESSURE/TEMPERATURE**

TEMPERATURE RANGE:
-22F TO 932F (-30C TO 500C)

13:1 DISTANCE TO SPOT RATIO

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

FOR 65 REFRIGERANTS: R11, R12, R13, R21, R22, R23, R32, R113, R114, R115, R116, R123, R124, R125, R134, R134A, R134B, R142B, R143, R143A, R152A, R176, R218, R290, R401A, R401B, R401C, R402A, R402B, R403A, R403B, R404A, R405A, R406A, R407A, R407B, R407C, R407D, R408A, R409A, R410A, R410B, R411A, R411B, R412A, R413A, R414A, R414B, R417A, R422A, R422D, R423A, R501, R502, R503, R504, R507, R508B, R509A, R600, R600A, R601, R601A, R717, R744





MA-1660
FREEZER ALERT

PRESERVES & PROTECTS FOOD FROM SPOILAGE. ALARM SOUNDS WHEN FOOD STARTS TO DEFROST

INCLUDES:
(1) AA BATTERY 112" TEMP. PROBE



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

TEMP. RANGE:
14F TO 140F (-10C TO 60C)
HUMIDITY: 20% TO 95%
DEW POINT:
-20.2F TO 138.2F (-29C TO 59C)

(2) AAA BATTERIES NOT INCLUDED



MA-1665C
FLOOD ALERT & ALARM

DETECTS WATER OVERFLOW. 112" SENSOR CABLE

INCLUDES:
(1) AA BATTERY



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

INSTANT F/C SWITCH - WALL MOUNT OR TABLE DESIGN - TIME, DATE DISPLAY & ALARM - 12/24 HOURS SYSTEM CLOCK

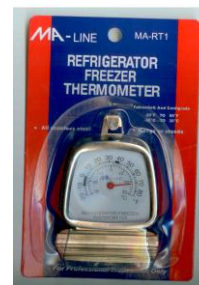
INCLUDES:
(1) AAA BATTERY

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 HORIZONTAL THERMOMETERS

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

F/C SWITCHABLE - 48" CAPILLARY - 1-1/2" X 1/2" DISPLAY

MA-HRFT1
HORIZONTAL REFRIG./FREEZER THERM.

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



MA-RT8101
SOLAR POWERED DIGITAL THERMOMETER

INDOOR TEMP: 32F TO 122F (0 TO 50C)
OUTDOOR TEMP: -58F TO 158F (-50C TO 70C)

F/C SWITCHABLE - MAX/MIN MEMORY

MA-RT8100
FRIDGE/FREEZER THERMOMETER WITH ALARM

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

F/C SWITCHABLE - ALARM - DUAL DISPLAY - MIN/MAX MEMORY - MAGNET, DESK STAND & TWO SUCTIONS CUPS



INCLUDES: (2) AAA BATTERIES



REMOTE READING SOLAR THERMOMETERS

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

F/C SWITCHABLE
ALL STAINLESS STEEL CASE

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

REMOTE READING VAPOR TENSION THERMOMETERS

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

F/C SWITCHABLE
ALL STAINLESS STEEL CASE

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





CLEAR VINYL TUBING

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

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

HEAVY DUTY BRAIDED TUBING



- MA-HDT316**
3/16"ID X 50'
- MA-HDT14**
1/4"ID X 50'
- MA-HDT38**
3/8"ID X 50'
- MA-HDT12**
1/2"ID X 50'

- MA-HDT58**
5/8"ID X 50'
- MA-HDT34**
3/4"ID X 50'
- MA-HDT78**
7/8"ID X 50'
- MA-HDT1**
1"ID X 50'

MA-PT14 POLYETHYLENE TUBING

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

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

RUBBER DRAIN LINE ELBOWS

FOR QUICK DISCONNECT AND RECONNECT OF DRAIN LINE

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



PILOT LIGHT (BREAKAWAY) FITTINGS

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



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

5' SQUARE BLACK NEOPRENE TUBING

MA-SNAT316-5 BLACK NEOPRENE AIR TUBING

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



ALUMINUM TUBING 5' KIT INCLUDES FITTINGS

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



50' COILS ALUMINUM TUBING WITHOUT FITTINGS

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

ASTM: B483
ALLOY: 3003
WALL THICKNESS: .035

FLEXOGEN GARDEN HOSE

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



INSULATED SPRAY NOZZLE 6 SPRAY PATTERNS

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



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

COMBO-HEX CLAMP

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

10/BOX - SOLD PER BOX

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

MICRO 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 - 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 (25/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-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"
- MA-NW11210** 1-1/2" X 10"

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
FUZE
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
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

PART #	AMP	VOLT	PKG
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





MIDWEST A/C METAL DISCONNECTS
 NON-FUSED UL & CUL LISTED FUSED

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

6/CASE - SOLD PER CASE

MA-NFD60A **MA-FD30A** **MA-FD60A**
 30A, FUSED 60A, NON-FUSED 60A, FUSED



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



WORLD SOURCE A/C METAL DISCONNECTS
 UL & CUL LISTED

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

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

MA-WSFD60A
 60A, FUSED

12 PER CASE - SOLD PER CASE

A/C DISCONNECTS WITH GFI OUTLET

1/CASE - SOLD PER CASE



MA-UO65P010



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)



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

1/CASE - SOLD PER CASE



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

MA-60F3 60A, FUSED

UL & CSL LISTED

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)

"EXTRA-BOOST" HARD START KITS

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

Voltage: 120 230 Residential/Commercial




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

NSA'S FURNACE MOUNTING BLOCK


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




HEAT PUMP STANDS



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



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

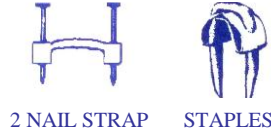


MA-HP3-2P 3" 2 PIECE
MA-HP6-2P 6" 2 PIECE

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

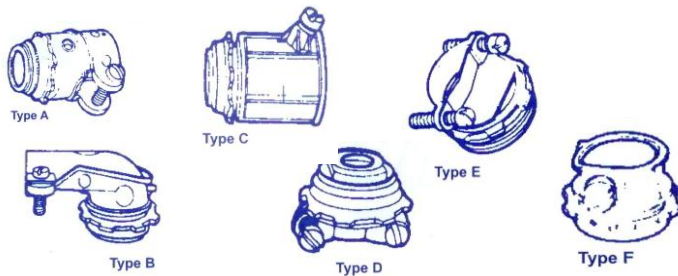
- MA-E42-1** 1/2" STRAIGHT SQUEEZE CONN.(TYPE A) 25/PKG.
- MA-E42-2** 3/4" STRAIGHT SQUEEZE CONN.(TYPE A) 25/PKG.
- MA-E42-3** 1" STRAIGHT SQUEEZE CONN.(TYPE A) 10/PKG.
- MA-E42-4** 1-1/4" STRAIGHT SQUEEZE CONN.(TYPE A) 10/PKG.
- MA-E42-5** 1-1/2" STRAIGHT SQUEEZE CONN.(TYPE A) 5/PKG.
- MA-E110** 3/8"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

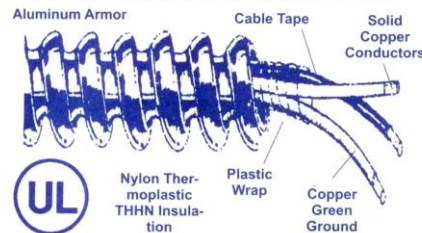
STEEL (GREENFIELD)

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

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

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

**ANTI-SHORT
BUSHINGS**

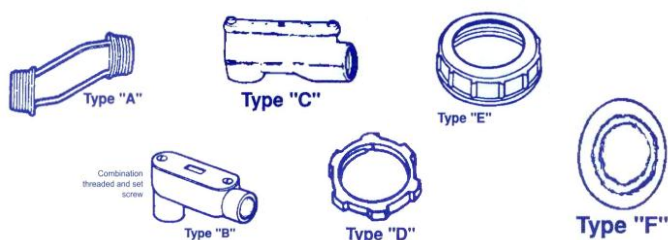
FOR FLEX – AC – MC CABLE



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

FITTINGS FOR RIGID CONDUIT

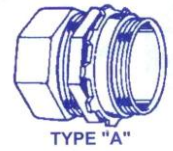
- MA-E376** 1/2" OFFSET NIPPLES (TYPE A) 20/PKG.
- MA-E377** 3/4" OFFSET NIPPLES (TYPE A) 10/PKG.
- MA-E378** 1" OFFSET NIPPLES (TYPE A) 10/PKG.
- MA-E379** 1-1/4" OFFSET NIPPLES (TYPE A) 10/PKG.
- MA-E380** 1-1/2" OFFSET NIPPLES (TYPE A) 10/PKG.
- MA-E96-1CG** 1/2" LB TYPE THREADED OVAL CONDUIT BODY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



FITTINGS FOR THINWALL CONDUIT (EMT)

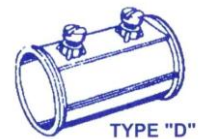
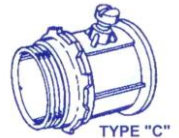
COMPRESSION TYPE – RAIN TIGHT

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



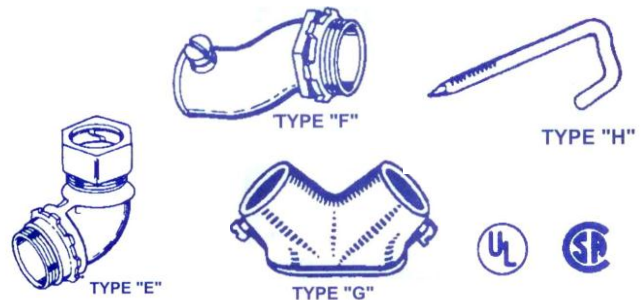
SET SCREW TYPE – CONCRETE TIGHT

- 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-E55** 1/2" STEEL DRIVE STRAPS (TYPE H) 100/PKG
- MA-E7S** 3/4" STEEL DRIVE STRAPS (TYPE H) 100/PKG
- MA-E10S** 1" STEEL DRIVE STRAPS (TYPE H) 100/PKG





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

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



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

PRICE PER PACKAGE

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

PRICE PER PACKAGE

MULTI-STEP BRASS BODY



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

PRICE PER PACKAGE

**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 EXTENSION 2" LONG
PRICE PER PACKAGE

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

**CAP AND REPLACEMENT
VALVE CORES**

PRICE PER PACKAGE
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)



PRICE PER PACKAGE

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
PRICE PER PACKAGE

**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





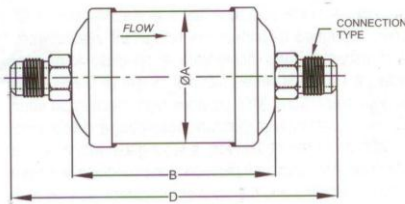
**LIQUID LINE FILTER DRIER
DCH SERIES
(SOLID CORE TYPE)**

**INTERNAL
ASSEMBLY
CORE TYPE**

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

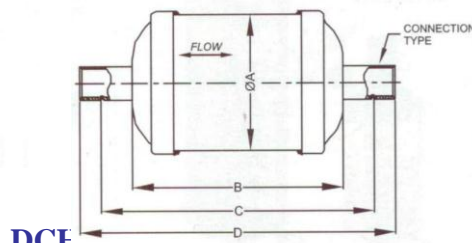
**SAE TYPE CONNECTION
NICKEL PLATED
STEEL**

**ODS TYPE CONNECTION
COPPER**



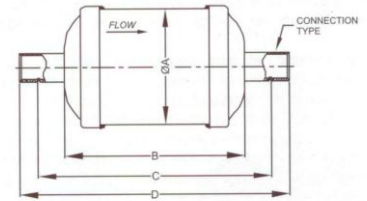
**DCH DRIER WITH SAE
CONNECTION
DIMENSIONS**

DRAWING 1



DCH 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

DCH032S

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

DCH033S

3/8" **ODS** LIQUID LINE FILTER DRIER
3/8" **ODS** CONNECTION,
4.61" OVERALL LENGTH

DRAWING 3

DCH052S

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

DCH053S

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

DCH082S

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

DCH083S

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

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

DCH165S

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

DRAWING 3

DCH303S

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

DCH304S

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

DCH305S

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

DCH306S

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

DCH307S













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

DCH309S

1-1/8" **ODS** LIQUID LINE FILTER DRIER
1-1/8" **ODS** CONNECTION,
10.39" OVERALL LENGTH

DRAWING 3

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
MA-1U	1" UNION	20			MA-1T	1" TEE
MA-12CPLG	1/2" COUPLING	120			MA-341212T	3/4" X 1/2" X 1/2" TEE
MA-34CPLG	3/4" COUPLING	75			MA-343412T	3/4" X 3/4" X 1/2" TEE
MA-1CPLG	1" COUPLING	50			MA-1238BG	1/2" X 3/8" HEX BUSHING
MA-3412CPLG	3/4" X 1/2" RED. COUPLING	90			MA-3412BG	3/4" X 1/2" HEX BUSHING
MA-112CPLG	1" X 1/2" RED. COUPLING	30			MA-112BG	1" X 1/2" HEX BUSHING
MA-134CPLG	1" X 3/4" RED. COUPLING	50			MA-134BG	1" X 3/4" HEX BUSHING
MA-1290EL	1/2" 90 DEGREE ELBOW	100			MA-12CAP	1/2" CAP
MA-3490EL	3/4" 90 DEGREE ELBOW	35			MA-34CAP	3/4" CAP
MA-190EL	1" 90 DEGREE ELBOW	30			MA-1CAP	1" CAP
MA-1245EL	1/2" 45 DEGREE ELBOW	100			MA-12PLG	1/2" PLUG
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				

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

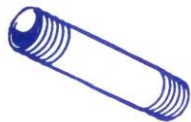


PLASTIC NIPPLE TRAYS

- 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"



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			

SCHEDULE 40 PVC FITTINGS



Type "A"

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



Type "B"



Type "C"



Type "D"



Type "E"



Type "F"



Type "G"



Type "H"



Type "I"



Type "J"



Type "K"



Type "L"



Type "M"



Type "N"

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

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

SCHEDULE 40 PVC-DWV FITTINGS



Type "A"



Type "B"



Type "C"



Type "D"



Type "E"



Type "F"



Type "G"



Type "H"



Type "I"

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

FERNCO FLEXIBLE COUPLINGS

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



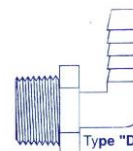
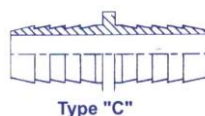
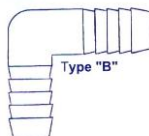
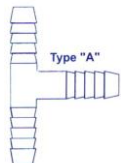
- MA-1056-075**
3/4" CI/PL/C/ST/L TO 3/4" & 1" CI/PL/C/ST/L
- MA-1056-100**
1" CI/PL/C/ST/L TO 1-1/4" CI/PL/C/ST/L
- MA-1056-22**
2" CI/PL/C/ST/L TO 2" CI/PL/C/ST/L
- MA-1056-33**
3" CI/PL/C/ST/L TO 3" CI/PL/C/ST/L
- MA-1056-44**
4" CI/PL/C/ST/L TO 4" CI/PL/C/ST/L
- MA-1056-32**
3" CI/PL/C/ST/L TO 2" CI/PL/C/ST/L

PART #	DESCRIPTION	PKG.	TYPE
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

NYLON FITTINGS

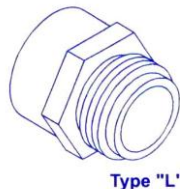
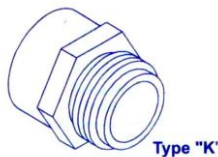
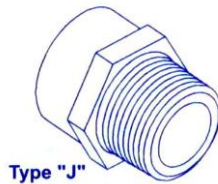
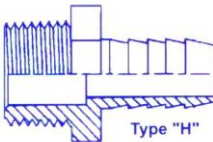
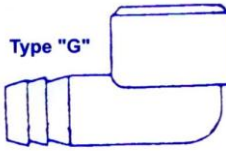
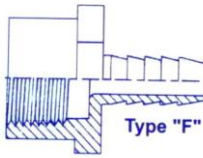
PART #	DESCRIPTION	PKG.	TYPE
MA-22157	TEE 1/4" BARB	5	A
MA-22157-25	TEE 1/4" BARB	25	A
MA-22157-50	TEE 1/4" BARB	50	A
MA-22157-100	TEE 1/4" BARB	100	A
MA-22159	TEE 3/8" BARB	5	A
MA-22159-25	TEE 3/8" BARB	25	A
MA-22159-50	TEE 3/8" BARB	50	A
MA-22159-100	TEE 3/8" BARB	100	A
MA-22160	TEE 1/2" BARB	4	A
MA-22160-25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

PART #	DESCRIPTION	PKG.	TYPE
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
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



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-FL37LED-12
7 LED FLASHLIGHT & 30 LED WORKLIGHT
 WITH "S" HOOK AND MAGNET
 INCLUDES: (3) AA BATTERIES

MA-AP181-12
4 LED FLASHLIGHT & 24 LED WORKLIGHT
 WITH "S" HOOK, STAND AND MAGNET
 INCLUDES: (3) AAA BATTERIES



MA-FL460
4 LED FLASHLIGHT & 60 LED WORKLIGHT
 WITH STAND, HOOK AND MAGNET
 INCLUDES: (3) AA BATTERIES

MA-FL3A
3 LED EXTENDABLE FLASHLIGHT
 WITH FLEXIBLE NECK
 INCLUDES: (4) LR44

ALSO AVAILABLE IN A DISPLAY CARTON OF 12
MA-FL3A-12



MA-OV24-3
24 LED WORKLIGHT WITH 3 LED FLASHLIGHT
 INCLUDES:
 (3) AAA BATTERIES



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



MA-HML7
7 LED HEAD LAMP
 3 POSITIONS 1-3-7 LED
 INCLUDES:
 (3) AAA BATTERIES

MA-PBL1
BAT LIGHT

MATERIAL:
 ANODIZED ALUMINUM WITH RUBBER COVER
 3 FUNCTIONS:
 HIGH, LOW & TACTICAL STROBE
 INCLUDES:
 (3) AA BATTERIES

MA-FL28L
28 LED TRI BEAM FLASHLIGHT
 INCLUDES:
 (3) AAA BATTERIES



MA-0620
5 LED FLASHLIGHT
 INCLUDES:
 (1) AA BATTERIES

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



MA-FL13089A
9 LED FLASHLIGHT
 INCLUDES:
 (3) AAA BATTERIES

MA-UVFL15-1
10 LED WHITE FLASHLIGHT
5 UV LED-1 LASER AND COMPASS
 INCLUDES: (3) AAA BATTERIES



MA-AP3172
25 LED WORKLIGHT WITH 8 LED FLASHLIGHT AND 1 LASER
 INCLUDES: (3) AAA BATTERIES

INDUSTRIAL GRADE BATTERIES

MA-ALD D ALKALINE
 6/PKG - 72/CASE

MA-ALC C ALKALINE
 6/PKG - 72/CASE

MA-ALAA AA ALKALINE
 8/PKG - 96/CASE

MA-ALAAA AAA ALKALINE
 8/PKG - 96/CASE

MA-AL9V 9V ALKALINE
 6/PKG - 72/CASE

MA-303/357RB LR44
 1/PKG



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



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



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)



SOLD PER CASE

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 (6/CASE)

MA-74213 100 FT. 12/3 SJEOW (4/CASE)

MA-60743 50 FT. 12/3 SJTW (6/CASE)

MA-72023 100 FT. 12/3 SJTW (4/CASE)

MA-70474 25 FT. 14/3 SJTW (12/CASE)

MA-63493 50 FT. 14/3 SJTW (6/CASE)

MA-61623 100 FT. 14/3 SJTW (6/CASE)

MA-65093 25 FT. 16/3 SJTW (12/CASE)

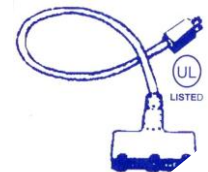
MA-63223 50 FT. 16/3 SJTW (12/CASE)

MA-67363 100 FT. 16/3 SJTW (6/CASE)

SOLD PER CASE

HANDI-TAP 3-OUTLET EXTENSION CORDS

ORANGE



MA-72314 2 FT. 12/3 STW, 15A

MA-71354 25 FT. 12/3 SJTW, 15A

MA-72744 50 FT. 12/3 SJTW, 15A

MA-62044 100 FT. 12/3 SJTW, 15A

MA-61834 25 FT. 14/3 SJTW, 15A

MA-60954 50 FT. 14/3 SJTW, 15A

MA-70204 100 FT. 14/3 SJTW, 15A

SOLD PER CASE

AIR CONDITIONING EXTENSION CORDS MEETS OSHA SPECIFICATIONS!



SOLD PER CASE

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

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

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



MA-04907 CORD CADDY 16/3 25' BLACK CORD

4 HANDY GROUND OUTLETS
10 AMP CIRCUIT BREAKER - POWER LIGHT

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

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)



MA02991-3

TEST LEADS AND ADAPTORS



MA05031-2



MA-32831
MA-32832

- MA02991-3** 14 AWG, 24" LONG LEADS
- MA05031-2** 18 AWG, 10EA. 18" LONG TEST LEADS
- MA-32831** 2' FEMALE CORD ADAPTER
- MA-32832** 6' MALE CORD ADAPTER

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.



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-493114

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

TORQUE AND HEX KEY SETS

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

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

MA-88091 9PC. HEX KEY FOLD UP SET
5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32" & 1/4"

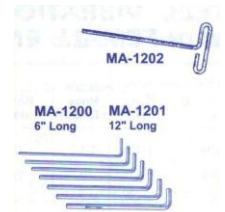
MA-1200 7PC HEX KEY SET - 6" LONG
3/32", 5/64", 1/8", 5/32", 3/16", 7/32" & 1/4"

MA-1201 7PC HEX KEY SET
12" LONG - 3/32", 5/64", 1/8", 5/32",
3/16", 7/32" & 1/4"

MA-1202 8PC T-HANDLE HEX
WRENCH SET - 9" LONG - 3/32",
7/64", 1/8", 9/64", 5/32", 3/16", 7/32" & 1/4"



MA-88057
MA-88081
MA-88091



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

3PC OFFSET
SCREWDRIVER
SET

MA-70059P



8PC
SCREWDRIVER
SET

4 SLOTTED - 4 PHILLIPS

MA-AP8SD



6 IN 1 SCREWDRIVER

2 SLOTTED - 2 PHILLIPS - 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

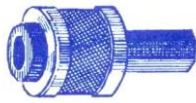


MULTI-BIT &
DRIVER KIT

MA-290

29PC TOOL KIT
ASSORTED BITS WITH DRIVER
& EXTENSION





**QUICK CHANGE
DRILL ADAPTOR**
MA03500-2



**5/16" ADAPTOR FOR
R-410 SYSTEMS**
MA-19173

HUB PULLER
PULLS OFF FAN BLADES AND
BLOWER WHEELS

MA-FB2



**QUICK CHANGE
ADAPTOR KIT**
MA-72066

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



ADJUSTABLE WRENCHES

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



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)

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

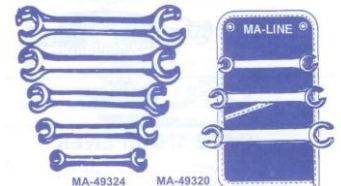
- MA-MFC1**
ALL METAL FIN COMB
MA-MFC2
METAL FIN COMB
WITH HANDLE
MA-MFC3
6 IN 1 FIN COMBS
8, 9, 10, 12, 14, & 15 FINS/INCH



MA-MFC1 MA-MFC3
MA-MFC2

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"

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





MA-RRWBK REVERSIBLE RATCHET WRENCH BIT KIT

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

FLEXIBLE RATCHET WRENCH SET

MA-FWP7

U.S. STANDARD SIZE

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

REPLACEMENT WRENCHES

MA-FWP7-MET

METRIC SIZE

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

REPLACEMENT WRENCHES



MA-SOC19 19 PC. RATCHETING SOCKET SET

U.S. STANDARD SIZE

INCLUDES: 1/4" & 3/8"

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



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

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

7PC NUT DRIVER SET

MA-9355

REPLACEMENT DRIVERS

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



REPLACEMENT DRIVERS

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

HOLLOW SHAFTS

MA-NDK10

10 PC. HEX MANGNETIC NUT DRIVER KIT

INCLUDES:

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

QUICK CHANGE ADAPTOR



PLIERS

TONGUE AND GROOVE PLIERS

- MA-430G 10" - CAPACITY 2" (A)
- MA-440G 12" - CAPACITY 2-1/4" (A)

STANDARD PATTERN PLIERS

- MA-317G 7-1/2" LONG NOSE PLIERS WITH SIDE CUTTER (B)
- MA-337 7" LAP JOINT DIAGONAL PLIER (C)



A



B



C

LOCKING PINCH-OFF TOOL

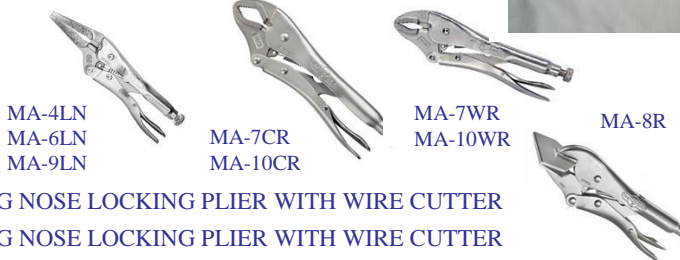
MA-1RR



"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-7WR
MA-10WR

MA-8R

MA03200-2 CRIMPING TOOL



MA03203-2 DELUXE WIRE STRIPPER & CUTTER



- 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-MT53
PLIERS PLUS
 MULTIFUNCTIONAL TOOL
 (PICTURE SHOWN TO THE LEFT)
MA-MT62
MINI-POCKET
MULTI-TOOL

STAINLESS STEEL
POCKET KNIVES

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



FOLDING
UTILITY KNIFE
MA-301C

INCLUDES:
 (3) ADDITIONAL
 REPLACEMENT BLADES



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

FOLDING KNIFE WITH
SMOOTH/SERRATED
BLADE

MA-AP890



DUCTBOARD KNIFE & SHEATH
 STAINLESS STEEL 2 SIDED KNIFE

MA-KN74HD
 1 SIDE SMOOTH * 1 SIDE SERRATED

SCRAPER & PUTTY KNIVES



MA-72433

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

MA-72439



MA-72435
 MA-72437



SURGICAL
STAINLESS STEEL
POCKET KNIFE
 WITH HARDWOOD HANDLE
MA-KC710



POCKET LEVELS

MA-8400
 ALUMINUM 5"
 POCKET LEVEL



MA-8401
 PLASTIC 5" POCKET LEVEL



MA-8408

MA-8408
 MAGNETIC PVC 9"
 POCKET LEVEL

SCREW
STARTERS
 WITH MAGNET



MA-175D

MA-176E

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

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-114



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

- MA-70250** CUTS LEFT (RED) AVIATION SNIPS
- 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 hardened. 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.

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

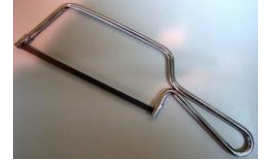
The all stainless steel construction, shockproof unit measures in standard and metric. It comes with a deluxe storage case.



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.

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.



PVC PIPE CUTTERS

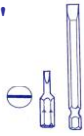
- MA-S25** CUTS UP TO 1"
- MA-L42** CUTS UP TO 1-1/4"
- MA-L50** CUTS UP TO 2"

- MA-S25RB** REPLACEMENT BLADE FOR MA-S25
- MA-L42RB** REPLACEMENT BLADE FOR MA-L42
- MA-L50RB** REPLACEMENT BLADE FOR MA-L50



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 - 100 PCS
MA03758-2 8 X 1/2"
MA03759-2 8 X 3/4"
MA03760-2 8 X 1"
MA03761-2 10 X 1/2"
MA03762-2 10 X 3/4"
MA03763-2 10 X 1"
 TUBS - 500 PCS
MA03758-3 8 X 1/2"
MA03759-3 8 X 3/4"
MA03760-3 8 X 1"
MA03761-3 10 X 1/2"
MA03762-3 10 X 3/4"
MA03763-3 10 X 1"

HEX WASHER HEAD FAST PENETRATING HEAD SLOTTED SCREWS

- BAGS - 100 PCS
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 - 500 PCS
MA03565-3 8 X 1"
MA03567-3 10 X 1"
 TUBS - 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)

MAGNETIC CHUCKS

1-5/8" LENGTH FOR ELECTRIC DRILLS AND POWER SCREWDRIVERS

- 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"

MA0353940-MX

(12) 1/4" X 1-5/8" & (12) 5/16" X 1-5/8"

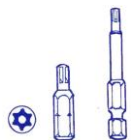
POINT OF PURCHASE DISPLAY CARD FOR COUNTER TOP OR HANG ON RACK



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

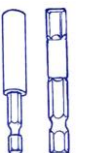


TAMPER-PROOF TORQ 1/4" HEX INSERT



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

MAGNETIC BIT HOLDER 1/4" HEX DRIVE

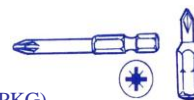


1" LENGTH - (1/PKG)

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

POZIDRIVE 1/4" HEX INSERT

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



DOES NOT
OFFER
RESPIRATORY
PROTECTION



**NON-TOXIC
PARTICLE &
DUST MASK**

MA-7300
(50 MASKS PER BOX)

**BLUE NITRILE
DISPOSABLE POWDERED
GLOVES**

100 GLOVES PER BOX



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

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

**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)

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

GLOVES



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
- ROUGH FINISH FOR EXCELLENT
WET GRIP - CHEMICAL RESISTANT
- LIQUIDPROOF



MA-167L

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



MA-190

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



MA-192

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



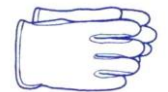
MA-302L

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



MA-1132L

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



MA-2149L

**ALL PURPOSE
FIRST AID KIT**

MA-FA134

200 PC FIRST AID KIT



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

- (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"

**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

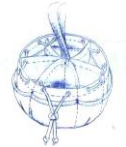


**BUCKETS &
BUCKET ORGANIZERS**

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

MA-1119 HEAVY DUTY BUCKET POCKET, 48 POCKETS – 14 MULTI SIZE INSIDE AND 34 OUTSIDE TO ORGANIZE A WIDE RANGE OF TOOLS & ACCESSORIES – 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



MA-5GP

MA-1119

MA--1148

**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

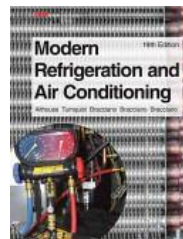
MA-30132 MINI-GREASE GUN KIT

MA-30200 HEAVY DUTY GREASE GUN

MA-05028 COUPLER

MA-10214 12" GREASE HOSE

MA-10218 18" GREASE HOSE



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

MA-340-5

MODERN REFRIGERATION & AIR
CONDITIONING

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

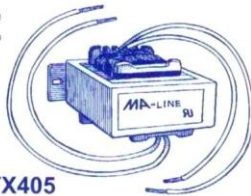
MINI PRESSURE SWITCHES



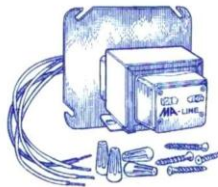
MA-LINE CLASS 2 TRANSFORMERS



MA-TX402



MA-TX405



MA-TX501



MA-TX502



MA-TX779

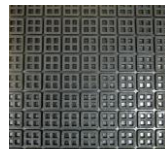
PART #	REPLACES	CONNECTION TYPE	PRIMARY VOLTAGE	SECONDARY VOLTAGE	OUTPUT RATING	MOUNTING STYLE
MA-TX202	620-202	NOT UL	120	24	20VA	PLUG-IN
MA-TX205	50351	WIRE LEAD	120	24	20VA	FOOT
MA-TX402	50333	WIRE LEAD	120/208/240	2.5, 12, 24	48VA	MULTI
MA-TX403	50302	WIRE LEAD	120	24	40VA	MULTI
MA-TX404	50303	WIRE LEAD	208/240	24	40VA	MULTI
MA-TX405	50352	WIRE LEAD	120	24	40VA	FOOT
MA-TX406	50353	WIRE LEAD	208/240	24	40VA	FOOT
MA-TX407	50304	WIRE LEAD	120/208/240	24	40VA	MULTI
MA-TX482	50354	WIRE LEAD	120/208/240	24	40VA	FOOT
MA-TX501	620-501	TERMINAL	120/208/240	28	50VA	UNIVERSAL CONNECTION WITH TERMINAL BOARD
MA-TX502	50314	WIRE LEAD	120/208/240	24	50VA	MULTI
MA-TX775	50320	WIRE LEAD	120/208/240/480 WITH FUSE	24	75VA	FOOT
MA-TX779	50321	WIRE LEAD	120/208/240/480 WITH CIRCUIT BREAKER	24	75VA	FOOT
MA-TX100	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" 24/BOX
- MA-004RR** 4" X 4" X 3/8" 24/BOX
- MA-006RR** 6" X 6" X 3/8" 24/BOX
- MA-012RR** 12" X 12" X 3/8" 12/BOX
- MA-018RR** 18" X 18" X 3/8" 6/BOX



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

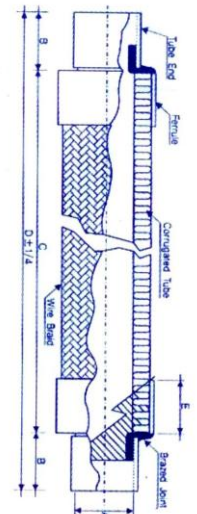
- MA-002CR** 2" X 2" X 7/8" 48/BOX
- MA-003CR** 3" X 3" X 7/8" 36/BOX
- MA-004CR** 4" X 4" X 7/8" 24/BOX
- MA-006CR** 6" X 6" X 7/8" 12/BOX
- MA-012CR** 12" X 12" X 7/8" 6/BOX
- MA-018CR** 18" X 18" X 7/8" 6/BOX

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")		
VE140D	1/4	1/4	3/4	6-5/8	8-1/16	1/2	500	2500
VE380D	3/8	3/8	13/16	6-15/16	8-9/16	1/2	500	2500
VE120D	1/2	1/2	7/8	7-1/4	9	1/2	500	2500
VE580D	5/8	5/8	15/16	8	9-7/8	11/16	500	2500
VE340D	3/4	3/4	1-1/4	8-1/16	10-9/16	11/16	500	2500
VE780D	7/8	7/8	1-7/16	9-1/8	12	13/16	500	2500
VE1180D	1-1/8	1-1/8	1-13/16	9-7/16	13-1/16	13/16	500	2500
VE1380D	1-3/8	1-3/8	2	11-1/2	15-9/16	7/8	500	2500
VE1580D	1-5/8	1-5/8	2-1/4	12-3/8	16-7/8	15/16	500	2500
VE2180D	2-1/8	2-1/8	2-3/4	15-3/16	20-5/8	15/16	390	1950
VE2580D	2-5/8	2-5/8	3-1/8	18-1/16	24-5/16	1-1/4	340	1700
VE3180D	3-1/8	3-1/8	3-7-16	20	26-15/16	1- 1/2	300	1500
VE3580D	3-5/8	3-5/8	4-1/8	24	32-3/16	1-9/16	175	525
VE4180D	4-1/8	4-1/8	4-7/16	24	32-15/16	1-9/16	175	525

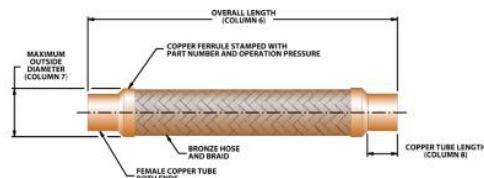


ANACONDA/UNIVERSAL VIBRATION ELIMINATORS

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.)	
3618FZ	1/4	1/8	3/16	7	1/2	9/16	1/2	700
1418FZ	1/4	1/8	1/4	7-1/2	9/16	5/8	1/2	700
5614FZ	3/8	1/4	5/16	8-1/4	11/16	3/4	5/8	700
3838FZ	1/2	3/8	3/8	9	3/4	7/8	3/4	500
1212FY	5/8	1/2	1/2	9-3/4	1	1-1/8	7/8	450
1258FY	3/4	5/8	1/2	10	1	1-1/8	1	450
3458FY	3/4	5/8	3/4	11-1/4	1-3/8	1-1/2	1-1/8	450
3434FY	7/8	3/4	3/4	11-1/2	1-3/8	1-1/2	1-1/4	450
1010FY	1-1/8	1	1	13	1-5/8	1-7/8	1-1/2	450
5454FY	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.)	
6464FS	1-5/8	1-1/2	1-1/2	17	2-1/4	2-3/8	2	400
2020FS	2-1/8	2	2	20	3-1/8	3-1/4	2-1/2	360
5252FS	2-5/8	2-1/2	2-1/2	24	3-3/4	3-7/8	3	300
3030FS	3-1/8	3	3	27	4-3/8	4-1/2	3-1/2	300
7272FS	3-5/8	3-1/2	3-1/2	23	4-5/8	4-15/16	3-3/16	150
4040FS	4-1/8	4	4	25	5-5/16	5-3/4	4-3/8	150
5050FS	5-1/8	5	5	27-1/2	6-1/4	---	5-1/2	150
6060FS	6-1/8	6	6	33	7-1/4	---	6-1/2	150
8080FS	8-1/8	8	8	42-1/2	9-1/2	---	7	150

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



COLD-CLIMATE TIES

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

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



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



PLENUM RATED WIRE TIES

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

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

UL FLAME RATING:
94V-2

GAMMA RADIATION RESISTANCE:
1 X 10RADS

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

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

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)



WIRE TIE MOUNTING PAD

MA03765-1

1" X 1" FLEXIBLE BASE
(10/PKG)



NATURAL WIRE TIES

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



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

BLACK WIRE TIES

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

NATURAL SCREWDOWN WIRE TIES

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



BLACK SCREWDOWN WIRE TIES

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

DUCT TIES



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

ASSORTED WIRE TIES MA-LINE PACKS

MA-PAK-1

250 NATURAL WIRE TIES

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

MA-PAK-2

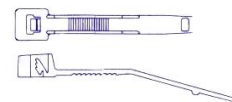
300 NATURAL & BLACK WIRE TIES

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

MA-PAK-3

450 BLACK WIRE TIES

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



WIRE TIE GUNS



MA05007-2

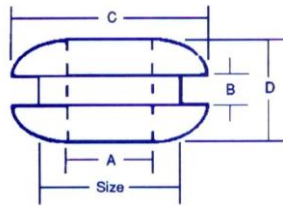
LIGHTWEIGHT PLASTIC FOR SMALL WIRE TIES

MA05008-2

HEAVY DUTY METAL FOR LARGE WIRE TIES

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

VINYL GROMMETS



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

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

PART #	DESCRIPTION	PKG
MA03168-1	7/8"	15
MA03169-1	1"	5
MA03161-2	1/4"	100
MA03162-2	5/16"	100
MA03163-2	3/8"	100
MA03164-2	7/16"	100
MA03165-2	1/2"	100
MA03166-2	5/8"	100
MA03167-2	21/32"	100
MA03168-2	7/8"	100
MA03169-2	1"	100



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

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

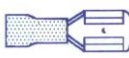
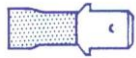
NYLON CABLE CLAMPS

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

MA02526-1

**QUICK DISCONNECTS
FLARED
VINYL INSULATED**

MA02598-2



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				

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



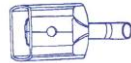
TYPE B

**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
MA02581-1	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

**QUICK DISCONNECTS
FULLY INSULATED**



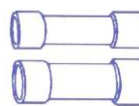
PART #	RANGE	TAB	PKG	PART #	RANGE	TAB	PKG
MA03465-1	22-18MF	250	10	MA03467-2	22-18F	250	100
MA03466-1	16-14MF	250	10	MA03469-2	22-18M	250	100
MA03467-1	22-18 F	250	10	MA03471-2	16-14F	250	100
MA03469-1	22-18M	250	10	MA03473-2	16-14M	250	100
MA03471-1	16-14 F	250	10	MA03475-2	12-10F	250	100
MA03473-1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

CLOSED END CONNECTORS

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



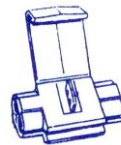
FLARED - VINYL INSULATED



NON-INSULATED

SPECIAL DEVICE IN-LINE SPLICES

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



MA03063-1



MA01066-1

**SPECIAL DEVICE
DISCONNECTS**

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



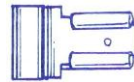
MA01029-1
MA01029-2



**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



**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



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

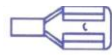


MA02726-1 MA02773-1

PART #	RANGE	STUD	PKG	PART #	RANGE	STUD	PKG
RINGS				SPADES			
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

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



**WIRE MARKER IDENTIFICATION
TAPE DISPENSER/BOOKS**

MA02152-2 10-PAGE WIRE MARKER BOOK
#1 THROUGH #45 (1/PKG)
MA02153-2 10-PAGE WIRE MARKER BOOK
A-Z, 0-15, +, - and / (1/PKG)



MA02148-2 DISPENSER W/TAPE 0-9 (1/PKG)
MA02149-2 REPLACEMENT ROLLS 0-4 (1/PKG)
MA02150-2 REPLACEMENT ROLLS 5-9 (1/PKG)
MA02151-2 REPLACEMENT ROLLS 0-9 (1/PKG)

MA-LINE "MARK-IT"

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



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

**90 DEGREE
DISCONNECT
WITH SCREW**



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

**HIGH TEMPERATURE NON INSULATED
SOLDERLESS TERMINALS**

MA02127-1

MA03798-1

MA02881-1



MA02880-1



MA03362-1

PART # RANGE STUD PKG

MA02127-1	16-14	.250	4
MA02127-2	16-14	.250	100

RINGS

MA02065-1	8	1/4	15
MA02065-2	8	1/4	100
MA02142-1	8	1/4	20
MA02142-2	8	1/4	100
MA03771-1	22-18	6	30
MA03772-1	22-18	10	30
MA03773-1	16-14	6	30
MA02860-1	16-14	10	30
MA02861-2	16-14	10	100
MA02869-1	12-10	10	20
MA02870-2	12-10	10	100
MA02872-1	12-10	1/4	15
MA02873-2	12-10	1/4	100
MA03774-1	16-14	1/4	20
MA03778-2	22-18	6	100
MA03779-2	22-18	10	100
MA03780-2	16-14	6	100
MA03781-2	16-14	1/4	100

DISCONNECTS

MA02875-1	16-14F	250	20
MA02876-2	16-14F	250	100
MA02881-1	12-10F	250	20

PART # RANGE STUD PKG

DISCONNECTS CON'T

MA02882-2	12-10F	250	100
MA03362-1	16-14	250	20
FLAG			
MA03363-2	16-14	250	100
FLAG			
MA03798-1	12-10	250	20
FLAG			
MA03798-2	12-10	250	100
FLAG			
MA03776-1	16-14F	187	20
MA03782-2	16-14F	187	100
MA03783-2	22-18	187	100
FEMALE			
MA03784-1	22-18	187	20
MALE			
MA03784-2	22-18	187	100
MALE			
MA03785-1	18-14M	250	15
SPADE			
MA03785-2	18-14M	250	100
SPADE			
MA03793-1	22-10	10	25
SPADE			
MA03793-2	22-10	10	100
SPADE			
MA03794-2	16-14	10	100
SPADE			

TERMINAL BLOCKS & JUMPERS

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

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

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.

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.

WINGED WIRE CONNECTORS

MA10606-1 (5/BAG)
MA10606-2 (50/BAG)
MA10606BX (50/BOX)
 GREY

MA10608-1 (5/BAG)
MA10608-2 (50/BAG)
MA10608BX (50/BOX)
 BLUE

MA10602-1 (15/BAG)
MA10602-2 (100/BAG)
MA10602BX (100/BOX)
 YELLOW

MA10604-1 (10/BAG)
MA10604-2 (100/BAG)
MA10604BX (100/BOX)
 RED

TAN WINGED WIRE CONNECTORS

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

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



PORCELAIN WIRE CONNECTOR

SMALL =
 2X18GA, 3X18GA OR 4X20GA

MEDIUM =
 3X18GA, 4X18GA OR 5X20GA

LARGE =
 2X14GA, 5X18GA OR 6X20GA

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

MA01164-1
 SMALL (15/PKG)

MA01164C-2
 SMALL (100/PKG)

MA01165-1
 MEDIUM (10/PKG)

MA01165C-2
 MEDIUM (100/PKG)

MA01166-1
 LARGE (10/PKG)

MA01166C-2
 LARGE (100/PKG)

240 PIECES ASSORTED WIRE CONNECTORS

IN A PLASTIC TUB WITH HANDLE
MA06295P

110 PIECES ASSORTED WINGED WIRE CONNECTORS

IN A PLASTIC TUB WITH HANDLE
MA10610P



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



SOFT WIRE CONNECTORS

SPECIAL DEVICES
 SCOTCHLOCKS®

MA03075-1 (10/BAG)
MA03076-2 (50/BAG)
 RED/YELLOW: 16-10/18-12

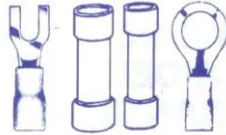
MA03077-1 (5/BAG)
MA03373-2 (25/BAG)
 BLUE/GREY: 12-6/14-8

SMALL ASSORTMENT KITS - INSULATED

ASSORTED RING & BUTT CONNECTORS (14/PKG)

MA02012-1

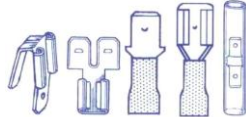
- 3PCS. 12-10 BUTT CONN.
- 3PCS. 12-10 #10 STUD SPADES
- 4PCS. 12-10 #10 STUD RINGS
- 2PCS. 12-10 #8 STUD RINGS
- 2PCS. 12-10 1/4" STUD RINGS



ASSORTED QUICK DISCONNECTS (20/PKG)

MA02013-1

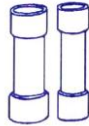
- 2PCS. EA. 12-10F, 16-14F, 22-18F .250 TAB
- 2PCS. EA. 12-10M, 16-14M, 22-18M .250 TAB
- 2PCS. 3 WAY ADAPTOR .250 TAB
- 2PCS. PIN TYPE MALE
- 4PCS. .250 SPECIAL DEVICES



ASSORTED BUTT CONNECTORS (17/PKG)

MA02014-1

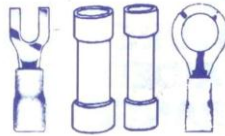
- 8PCS. 16-14
- 6PCS. 22-10
- 3PCS. 12-10



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



MA03754-2

MA03754-2 (60 PCS)

SPECIAL NUT KIT

6-32, 8-32, 10-24 & 1/4-20

MA03756-2 (90 PCS)

**NYLON INSERT
LOCK NUT KIT**

6-32, 8-32, 10-24, 10-32, 1/4-20 & 5/16-18



MA03756-2



MA03750-2

MA03750-2 (50 PCS)

SET SCREW KIT

6-32X1/4, 8-32X1/4, 8-32X3/4,
10-24X1/4, 10-32X1/4, 10-32X3/4,
1/4-20X3/8 & 5/16-18X3/8



MA03757-2

MA03757-2 (60 PCS)

SHEET METAL SCREW KIT

8X1/2, 8X3/4, 10X1/2, 10X1



MA03752-2

MA03752-2 (40 PCS)

**SOLDERLESS
TERMINAL KIT INSULATED**

MA03802-2 (24 PCS)

**SOLDERLESS LG. GAUGE
TERMINAL KIT
NON-INSULATED**



MA03802-2

**PLASTIC STORAGE
BOXES**

MA-3600

18 COMPARTMENT BOX

MA-3612

12 COMPARTMENT BOX



**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, 1/4" Stud
- 7 pcs. Insulated Rings: Yellow: 12-10, 8 Stud
- 10 pcs. Insulated Rings: Blue: 16-14, 10 Stud
- 10 pcs. Insulated Rings: Blue: 16-14, 8 Stud
- 10 pcs. Insulated Q/D: Male, Blue: 16-14
- 11 pcs. Butt Connector: Red: 22-18
- 10 pcs. Butt Connector: Blue: 16-14
- 7 pcs. Butt Connector: Yellow: 12-10
- 10 pcs. Insulated Spade: Blue: 16-14, 10 Stud
- 10 pcs. Insulated Spade: Blue: 16-14, 8 Stud
- 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: 22-18
- 10 pcs. Closed-End Connectors: 12-10
- 5 pcs. Non-Insulated Flag Disconnects: 16-14F
- 10 pcs. Insulated Spade: 16-14F, 8 Stud
- 10 pcs. Insulated Disconnect: 16-14M/.250 Tab
- 10 pcs. Insulated Ring: 12-10, 8 Stud
- 10 pcs. Insulated Spade: 16-14F, 10 Stud
- 10 pcs. Wire Connector: Orange
- 5 pcs. Wire Connector: Yellow
- 1 pc. Crimping Tool

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**



**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"

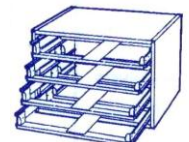
MA03353-2

2 DRAWER SLIDE RACK
FOR MA03375-2

MA03355-2

4 DRAWER SLIDE RACK
FOR MA03375-2

(SLIDE RACKS DO NOT INCLUDE DRAWERS)



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 – 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>		<u>14 GAUGE</u>		<u>RED</u>		<u>BLACK</u>		<u>WHITE</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
500' SPOOLS



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

USED FOR:
APPLIANCES
COIL LEADS
SWITCHBOARD PANELS
TRANSFORMERS
MOTOR LEADS

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

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

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

SINGLE STRAND 12 GAUGE WIRE

PART #	LENGTH	PART #	LENGTH	PART #	LENGTH
<u>RED</u>		<u>BLACK</u>		<u>WHITE</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>		<u>BLACK</u>		<u>WHITE</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'



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 - 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**



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

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

COATED STAINLESS STEEL

INDOOR/OUTDOOR GAS CONNECTOR FOR RESIDENTIAL AND COMMERCIAL GAS APPLIANCE

TEMPERATURE RANGE:
-40F TO 150F

CSA APPROVED

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

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

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



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



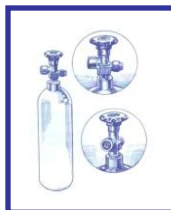
- MA-04625** ABRASIVE PADS (10/BOX)
- MA-90303** 1-1/2" X 10YRDS. SAND CLOTH
- MA-90304** 1-1/2" X 25YRDS. SAND CLOTH
- MA-90502** 1-1/2" X 5YRDS. OPEN MESH
- MA-90503** 1-1/2" X 10YRDS. OPEN MESH

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

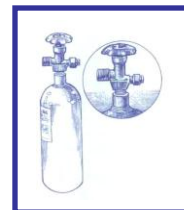
- T 002** 20 CU. FT.
- T 003** 40 CU. FT.
- T 032** 55 CU. FT.
- T 080** 80 CU. FT.

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

FLAME SHIELDS

11" X 11-1/2"



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

ALL TANKS ARE MADE OF STEEL

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



MA-49116
3 IN 1 12 OZ.
CAN TAP

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

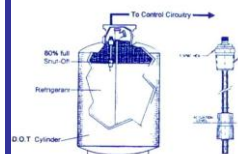
- MA-SR11-50** OSHA ORANGE
- MA-SR12-50** BLACK
- MA-SR22-50** OSHA SAFETY GREEN
- MA-SR113-50** DARK PURPLE
- MA-SR114-50** BLUE
- MA-SR134A-50** LIGHT BLUE
- MA-SR401A-50** CORAL
- MA-SR401B-50** DULL ALUMINUM
- MA-SR402A-50** BRASS
- MA-SR402B-50** ERIN GREEN
- MA-SR404A-50** CITRUS ORANGE
- MA-SR406A-50** 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 BAND HEATER

3054

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

Fits 30lb and 50lb cylinders



REFRIGERANT CYLINDER LIQUID LEVEL SWITCHES

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

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

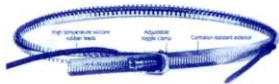
**HAND HELD
DIGITAL
SCALE**

MA-49051

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



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) –
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) –
AUTO CALIBRATION - 1/2LB/.2KG GRADUATION

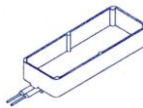
REFRACTOMETERS



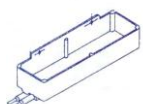
- MA-REF700** OIL
- MA-REF401F** GLYCOL (F)
- MA-REF401C** GLYCOL (C)

-This handheld refractometer, **MA-REF700**, is easy to use and accurately measures the mineral oil in a polyolester (POE) lubricant.
SPECIFICATIONS: Range 1.435-1.520nD (with 3 scales)
-The **MA-REF401F**, measures the freezing point of ethylene or propylene glycol. The two Fahrenheit non-linear scales cover -60F to 32F for ethylene glycol and propylene glycol. The resolution of the temperature scale is 10F.
-The Celsius reading, **MA-REF401C** is also available.

**CONDENSATE
PANS**



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



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

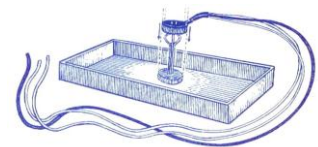
- MA-CP35-120** 38OZ. CAPACITY, 160W, 120V
- MA-CP35-240** 38OZ. CAPACITY, 160W, 220V
- MA-CP52-120** 50OZ. CAPACITY, 160W, 115V
- MA-CP52-240** 50OZ. CAPACITY, 160W, 220V

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 TUBE ICING &
PLUGGING
CAN BE USED ON ALL MODELS AND
MAKES OF REFRIGERATORS



**DRAIN PAN SAFETY
SWITCH**

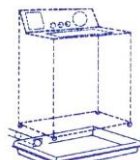


MA-J100

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.



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.



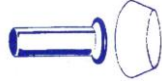
PLASTIC "Y" STRAINERS

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

MA-S14 1/4" FPT

MA-S38 3/8" FPT

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-BI4 1/4" BRASS INSERT 1/4" OD PLASTIC TUBING (25/PKG)

MA-BI6 3/8" BRASS INSERT FOR 3/8" OD PLASTIC TUBING (25/PKG)



MA02525-2 HEAT GUN ONLY

MA02525-3 HEAT GUN KIT

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

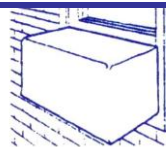
MA02525-EUKIT

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 HEX NUTS FOR THREADED ROD

MA-N14 1/4" - 20

MA-N516 5/16" - 18

MA-N38 3/8" - 16

MA-N12 1/2" - 13

STEEL BRIGHT ZINC PLATED USS FLAT WASHERS FOR THREADED ROD

MA-W14 1/4"

MA-W516 5/16"

MA-W38 3/8"

MA-W12 1/2"



ICEMAKER & HUMIDIFIER HOOK-UP KIT



MA-VIMK3 SELF PIERCING SADDLE VALVE MEETS NSF REQUIREMENTS

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

MA-IMK1 HUMIDIFIER KIT - INCLUDES SELF PIERCING SADDLE VALVE, 25' OF 1/4" OD POLYETHYLENE TUBING.

COPPER ICE MAKER AND HUMIDIFIER HOOK-UP KIT

MA-CIMK2 COPPER ICE MAKER

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



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 12OZ. (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.



**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.



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

SOLD PER CASE

- 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

SOLD PER CASE

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



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

FURNACE CEMENT

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

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



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)

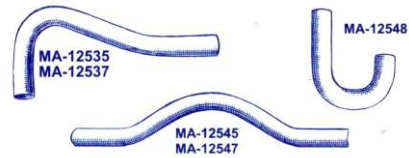
- MA-C950** (48/CASE)
1/2" X 520"
- MA-C950-4** (4/PKG)
1/2" X 520"



TEFLON THREAD SEAL TAPE

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

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



CONDENSATE PVC TRAPS

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



MA-LINE ELECTRICAL TAPE

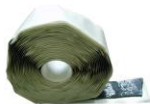
3M PREMIUM ELECTRICAL TAPE & VINYL COLOR CODING TAPE



- 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

CORK TAPE

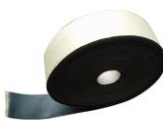


- MA-CT1** (12/CASE)
1/8" X 2" X 30'



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

FOAM TAPE

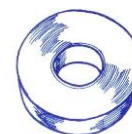


- MA-FT1** (12/CASE)
1/8" X 2" X 30'



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

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.

MINI SPLIT CONDENSING BRACKET

MA-SB35

- 18" X 33.5" X 24"
- (4) ANCHORING BOLT SCREWS
- (4) ANTI-VIBRATION PAD
- LEVELING BUBBLE
- NOT TO EXCEED 450LBS.



MOTOR MOUNTING BRACKET

INCLUDES: GROMMETS AND EYELETS

MA-FM554A 5-5/8" TORSION BRACKET WITH 4 LEGS

For use with direct Drive Blower Motors



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



LUG MOUNTING BRACKETS

MA80293 FOR 5.5" MOTORS



MOUNTING BRACKETS

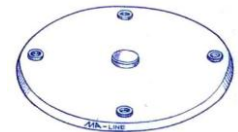
INCLUDES: BRACKET, SLEEVES, STEEL SCREWS, & RUBBER GROMMETS

MA60042 5" ID -42 FRAME
MA60048 5.5"-48 FRAME



CONDENSER FAN RAIN SHIELD

MA61000 1/2"ID X 6.88"OD
MA61056 5/8"ID X 6.88"OD
MA80105 1/2"ID X 7.00"OD



RUBBER GROMMET KIT

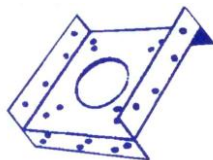
MA60049K
Used for 3/4" slots
Screws & sleeves included



RHEEM MOUNTING BRACKET

MA60306K

Replaces cables used to mount motors on Rheem Condensing units



MOUNTING BRACKET

MA68004

Adjustable bracket for unit bearing motors.



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

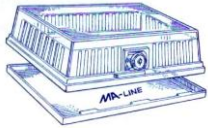


PART#	ROTATION	PITCH	SHAFT SIZE	#OF BLADES	DIA. INCHES
MA-CW300	CW	32	1/8"	4	3
MA-CW301	CW	32	3/16"	4	3
MA-CW401	CW	27	1/8"	5	4
MA-CCW403	CCW	27	1/8"	5	4
MA-CCW404	CCW	27	3/16"	5	4
MA-CW406	CW	35	1/8"	4	4
MA-CW501	CW	22	3/16"	5	5
MA-CW502	CW	22	1/4"	5	5
MA-CW503	CW	22	5/16"	5	5
MA-CCW504	CCW	22	3/16"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



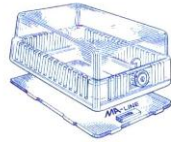
INCLUDES:
SOLID BASE
&
RING BASE

MA-BTGDK CLEAR PLASTIC
MA-BTGDB 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



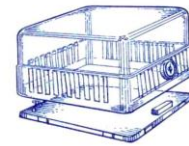
INCLUDES:
SOLID BASE
&
RING BASE

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

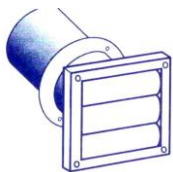
INSIDE DIMENSIONS:
SOLID BASE:
6-1/4"H x 4-3/4"W x 3"D
RING BASE:
6"H x 3-13/16"W x 3-1/8"D

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

SOLD PER CASE



ASSEMBLED

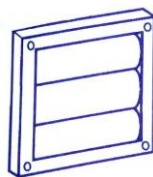
MA-SVHAW4 4" WHITE (6/CASE)
MA-SVHAB4 4" BROWN (6/CASE)

UNASSEMBLED

MA-SVHUW4 4" WHITE(12/CASE)
MA-SVHUB4 4" BROWN(12/CASE)

LOUVERED VENT HOOD

SOLD PER CASE



WITHOUT BIRD GUARD

MA-HS4W 4" WHITE (48/CASE)
MA-HS4B 4" BROWN (48/CASE)

WITH BUILT IN BIRD GUARD

MA-HSB4W 4" WHITE (24/CASE)
MA-HSB4B 4" BROWN(24/CASE)

DRYER-VENT WIDE MOUTH HOOD

INCLUDES HOOD,
ALUMINUM PIPE
& COLLAR

SOLD PER CASE



ASSEMBLED

MA-RVHAW4 4" WHITE (6/CASE)
MA-RVHAB4 4" BROWN (6/CASE)

UNASSEMBLED

MA-RVHUW4 4" WHITE (12/CASE)
MA-RVHUB4 4" BROWN (12/CASE)

UNIVERSAL BIRD & PEST GUARD



FITS OVER ANY 3" OR 4" VENT HOOD

SOLD PER CASE – 48/CASE

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

CLAMPS



MA-MSC4100
4" SPRING TENSION
(100/CASE)



MA-MC450
4" METAL WORM
DRIVE
SOLD PER CASE (50/CASE)

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' SOLD PER CASE
- MA-A048** 4" X 8' 9/CASE

AIR DEFLECTORS

SOLD PER CASE – 12/CASE
MA-99 MAGNET ADJUSTABLE 10"-14"



MA-51 WALL REGISTER ADJUSTABLE 10"-16"



ALUMINUM PIPE & ELBOWS

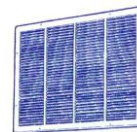
- MA-DE904** 4" X 90°
- MA-DP244** 4" X 24"



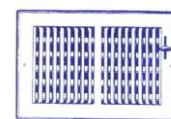
SOLD PER CASE 12/CASE

REGISTERS, GRILLS AND DIFFUSERS

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



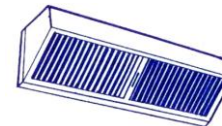
372 SERIES



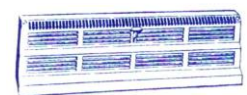
382 SERIES



1800B SERIES



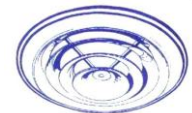
3015 SERIES



3018 SERIES



413 SERIES



1500 SERIES

PART#	OPENING SIZE (INCHES)	FREE AREA SQ. IN.	PER CTN	OVERALL SIZE (INCHES)
3015W SERIES DIFFUSER				
3015W15-R	15	38	12	15
3018W SERIES DIFFUSER				
3018W18-R	18	33	12	18
1500W SERIES CEILING DIFFUSER WHITE				
1500W6	6	23	10	10
1500W8	8	40	10	12
1500W10	10	61	10	14
1800B SERIES ROUND DAMPER				
1800B6	6	6	10	6-3/4
1800B8	8	8	10	9-1/2
1800B10	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	
MALS-55A	550	5	10	14	125	5-1/4	.65	3/8 OD	1/2 OD	1/2 OD	9
MALS-105A	1050	5	16-1/2	14	125	5-1/4	.65	3/8 OD	1/2 OD	1/2 OD	12
MALS-135A	1350	5	20-1/2	14	225	(2) 5-1/4	1.30	3/8 OD	1/2 OD	1/2 OD	16
MALS-190A	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
MALS-240A	2400	6-5/8	24	16-1/2	300	8	.73	1/2 OD	1/2 OD	1/2 OD	24
MALS-320A+	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
MALS-410A+	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

MALS-55A-P	550	5	10	14	125	5-1/4	.65	1/2 OD	1/2 OD	1/2 OD	9
MALS-105A-P	1050	5	16-1/2	14	125	5-1/4	.65	1/2 OD	1/2 OD	1/2 OD	12
MALS-135A-P	1350	5	20-1/2	14	225	(2) 5-1/4	1.30	1/2 OD	1/2 OD	1/2 OD	16
MALS-190A-P	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 – NSF approved * + Indicates that external equalized expansion valve is recommended (external equalizer tube field installed)



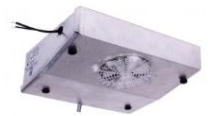
LOW TEMPERATURE – ELECTRIC DEFROST

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	
MALS-50E1	500	5	10	14	125	5-1/4	.65	1.80-215	3/8 OD	1/2 OD	1/2 OD	10
MALS-95E1	950	5	16-1/2	14	125	5-1/4	.65	4.20-480	3/8 OD	1/2 OD	1/2 OD	13
MALS-125E1	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
MALS-160E1	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
MALS-210E1+2100	2100	6-5/8	24	16-1/2	300	8	.73	7.52-865	1/2 OD	1/2 OD	1/2 OD	24
MALS-210E2+2100	2100	6-5/8	24	16-1/2	300	8	.45	3.83-880	1/2 OD	1/2 OD	1/2 OD	24
MALS-280E1+2800	2800	8	30-5/8	20-3/8	400	10	.73	9.80-1125	1/2 OD	5/8 OD	5/8 MF	38
MALS-280E2+2800	2800	8	30-5/8	20-3/8	400	10	.45	4.90-1125	1/2 OD	5/8 OD	5/8 MF	38
MALS-360E2+3600	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
MALS-540E2+5400	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 – 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	
MASF-105	1000	9	11-3/8	14	300	8	.73	3/8 OD	3/8 OD	1/2 OD	14
MASF-135	1300	9	14-3/8	14	300	8	.73	3/8 OD	3/8 OD	1/2 OD	16
MASF-175	1700	9	17-3/8	14	300	8	.73	3/8 OD	3/8 OD	1/2 OD	18
MASF-235	2300	9-7/8	20-3/8	15	300	8	.73	3/8 OD	1/2 OD	1/2 OD	22
MASF-305+	3000	11	23-3/8	16	500	10	.75	1/2 OD	1/2 OD	1/2 OD	27
MASF-105-P	1000	9	11-3/8	14	300	8	.73	3/8 OD	3/8 OD	1/2 OD	14
MASF-135-P	1300	9	14-3/8	14	300	8	.73	3/8 OD	3/8 OD	1/2 OD	16
MASF-175-P	1700	9	17-3/8	14	300	8	.73	3/8 OD	3/8 OD	1/2 OD	18
MASF-235-P	2300	9-7/8	20-3/8	15	300	8	.73	3/8 OD	1/2 OD	1/2 OD	22
MASF-305-P+3000	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 * Textured aluminum cabinet * Exclusive “Off-Center” construction reduces the number of welded return bends. “Where there are no joints, there are no leaks.” * 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 – 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	
MAMJ-40	400	7	13-5/8	8	125	5-1/4	.65	3/8 OD	3/8 OD	1/2 OD	7
MAMJ-70	700	7	13-5/8	8	125	5-1/4	.65	3/8 OD	3/8 OD	1/2 OD	9
MAMJ-90	900	7	13-5/8	9	125	5-1/4	.65	3/8 OD	3/8 OD	1/2 OD	10
MAMJ-120	1200	7	20-5/8	9	250	(2) 5-1/4	1.30	3/8 OD	3/8 OD	1/2 OD	15
COATED COILS											
MAMJ-40-P	400	7	13-5/8	8	125	5-1/4	.65	3/8 OD	3/8 OD	1/2 OD	7
MAMJ-70-P	700	7	13-5/8	8	125	5-1/4	.65	3/8 OD	3/8 OD	1/2 OD	9
MAMJ-90-P	900	7	13-5/8	9	125	5-1/4	.65	3/8 OD	3/8 OD	1/2 OD	10
MAMJ-120-P	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 "Off-Center" construction reduces the number of welded return bends. "Where there are no joints, there are no leaks." * 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	
MATM-100	1000	4-5/8	20-3/8	16	125	5-1/4	.65	3/8 OD	3/8 OD	1/2 OD	11
MATM-135	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
MATM-180	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
MATM-250	2500	5-5/8	20-3/8	16	300	8	.73	3/8 OD	3/8 OD	1/2 OD	16
COATED COILS											
MATM-100-P	1000	4-5/8	20-3/8	16	125	5-1/4	.65	3/8 OD	3/8 OD	1/2 OD	11
MATM-135-P	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
MATM-180-P	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
MATM-250-P	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 "Off-Center" construction reduces the number of welded joints. "Where there are no joints, there are no leaks." * 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 – 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	
MAPLP-380	3800	13-1/2	22-1/2	12-1/4	600	10	1.70		1/2 OD	5/8 OD	1 FPT	35
MAPLP-500	5000	13-1/2	27	12-1/4	600	10	1.70		1/2 OD	7/8 OD	1 FPT	38
MAPLP-600	6000	13-1/2	33	12-1/4	600	10	1.70		1/2 OD	7/8 OD	1 FPT	46
MAPLP-750	7500	13-1/2	38	12-1/4	1200	(2)10	3.40		1/2 OD	7/8 OD	1 FPT	55
MAPLP-1000	10000	13-1/2	45	12-1/4	1200	(2)10	3.40		1/2 OD	7/8 OD	1 FPT	67
MAPLP-1500	15000	13-1/2	63	12-1/4	1800	(3)10	5.10		1/2 OD	7/8 OD	1 FPT	90
MAPLP-2000	20000	13-1/2	81	12-1/4	2400	(4)10	6.80		1/2 OD	1-1/8 OD	1 FPT	120
MAPLP-2500	25000	13-1/2	99	12-1/4	3000	(5)10	8.50		1/2 OD	1-1/8 OD	1 FPT	155
MAPLP-3000	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 – 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	
MAPLP-430E	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
MAPLP-640E	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
MAPLP-860E	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
MAPLP-1290E	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
MAPLP-1720E	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
MAPLP-2150E	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
MAPLP-2580E	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

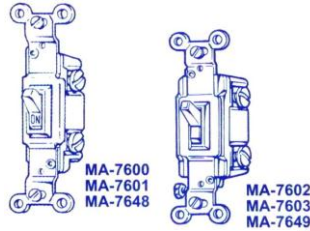
Standard 230/60/1 External equalized expansion valve required (1/4" dia. External equalizer tube provided

* 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 – NSF approved *



QUIET SWITCHES

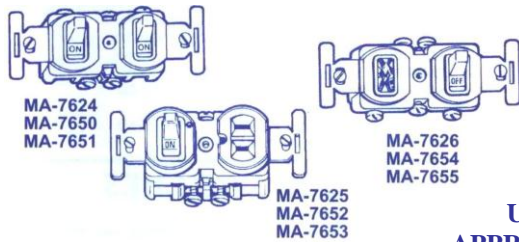
Horsepower Rated for Motor Loads
 Rated - 15A
 120V AC 1/2HP
 Max. Amps - 12A
UL APPROVED ONLY



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

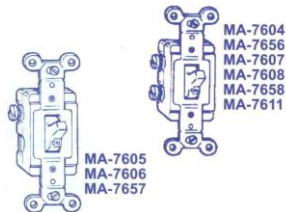
SINGLE POLE, 15A, 120-277V, AC SWITCH
MA-7624 IVORY **MA-7650** BROWN **MA-7651** WHITE

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



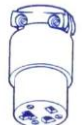
MA-7525



MA-7599



MA-7638



MA-7639

- MA-179ED** PLASTIC HANDLE PLUG 15A, 125V, 2 POLE, 2-WIRE 13/32" CORD HOLE (2/BAG) **UL & CSA APPROVED**
- MA-7525** 3 WIRE RECEPTACLE TO 3 WIRE GROUNDING OUTLET VINYL, 15A, 125V, GRAY **UL APPROVED**
- MA-7599** TRI-TAP, 15A, 125V, NEMA 1-15
- MA-7638** VINYL PLUG 20A, 125V NEMA 5-20, YELLOW **UL & CSA APPROVED**
- MA-7639** VINYL PLUG CONNECTOR 20A, 125V, NEMA 5-20, YELLOW **UL APPROVED**



MA-7640



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

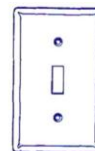


MA-7646

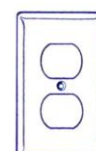


MA-7647

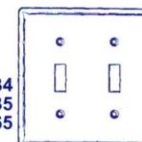
- MA-7645** VINYL ARMORED CONNECTOR 20A, 250V, NEMA 6-20, YELLOW
- MA-7646** RUBBER CONNECTOR, ROUND HANDLE CONNECTOR, 15A, 250V NEMA 5-15, BLACK **UL APPROVED**
- MA-7647** RUBBER PLUG, ROUND HANDLE CONNECTOR, 15A, 250V NEMA 5-15, BLACK **UL & CSA APPROVED**



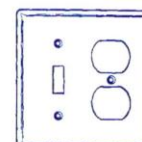
MA-7630
MA-7631
MA-7663



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



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



DOUBLE POLE, 240VAC
COMMON TRIP

- MA-Q215** 15AMP
- MA-Q220** 20AMP
- MA-Q225** 25AMP
- MA-Q230** 30AMP
- MA-Q240** 40AMP
- MA-Q250** 50AMP
- MA-Q260** 60AMP
- MA-Q270** 70AMP
- MA-Q280** 80AMP
- MA-Q290** 90AMP
- MA-Q2100** 100AMP
- MA-Q2125** 125AMP

DUAL

SINGLE POLE, 120/240VAC

- MA-QT2030** 20-30AMP
- MA-QT3030** 30-30AMP

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

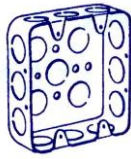
**4" SQUARE TWO DEVICE
OUTLET BOXES**

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

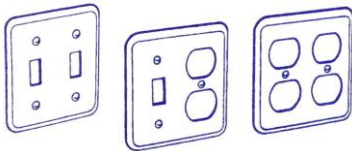


**4" COVERS FOR TWO
DEVICE OUTLET BOXES**

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

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

MA-E274 2 DUPLEX
RECEPTACLE (25/PKG)

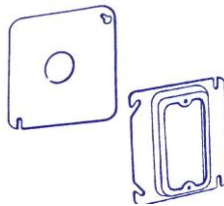
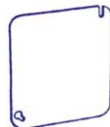


**4-11/16" COVERS
FOR SQUARE
OUTLET BOXES**

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)

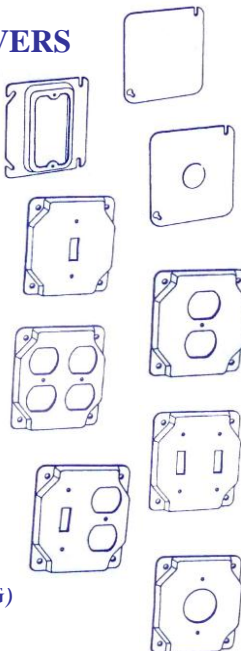
MA-E571 4" SQUARE 1/2" RAISED
1 DUPLEX RECEPTACLE (50/PKG)

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

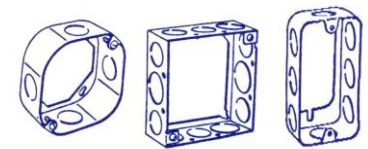


EXTENSION RINGS

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)



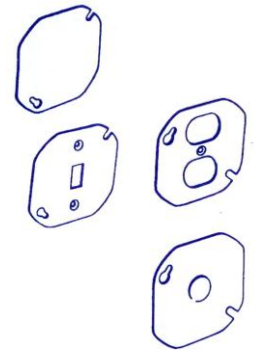
**4" OCTAGON
OUTLET BOX
COVERS**

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**

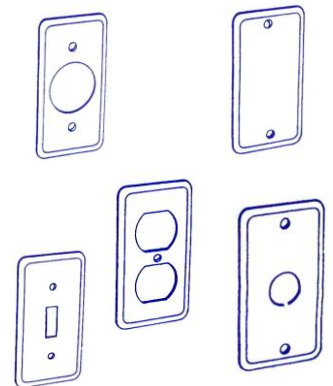
MA-E251 4" X 2-1/8"
SINGLE RECEPTACLE

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

AMA-044 4' EXTENSION X .162"DIA. 8-32 MALE THREAD FOR USE WITH 1/4" AND 5/16"DIA.
THE ITEM BELOW IS FOR CONDENSER BRUSHES



COPPER TUBE FITTING BRUSHES



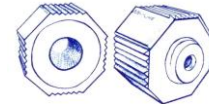
SINGLE SPIRAL – 2 PLY WIRE CONSTRUCTION
STAINLESS STEEL WIRE – SOLID PLASTIC HAND-FITTING HANDLE

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

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

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

OUTSIDE TUBE CLEANING BRUSHES



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

FLUX/ACID BRUSHES



FOR BRAZING AND SOLDERING

SOLD BY THE GROSS

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

PREPACKAGED

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

SOLD INDIVIDUALLY
AMA-007 3/4" WOODEN HANDLE



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

THE ABOVE ITEMS ARE FOR CONDENSER BRUSHES

CONDENSER TUBE BRUSH-SPIN-GRIT™



Spin Grit™ utilizes the sides of its impregnated nylon filaments to increase the brush's 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
MA-43482	1/2" DIA.	8-32
MA-43484	3/4" DIA.	12-24
MA-43486	1" DIA.	12-24
MA-43488	1-1/4" DIA.	12-24
MA-93482	1/2" DIA.	8-32
MA-93484	3/4" DIA.	1/4-28
MA-93486	1" DIA.	1/4-28
MA-93488	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
AMA-530 3/4" X 3"	AMA-565 1-1/2" X 4"
AMA-539 1" X 4"	AMA-582 2" X 4"

COLUMBIA BOILER BRUSH

AMA-348 1-1/2" X 1" X 4"

The bristles stick out in all directions and are rough cut to a rectangular shape. It is a much lighter fill than the flat style.



CLEANING BRUSHES

CLEANING BRUSH 24" OVERALL LENGTH – BRUSH LENGTH 7"

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

DUCT/VENT 48" OVERALL LENGTH – BRUSH LENGTH 7"

- AMA-200** 2-1/8" DIA. BRASS BRISTLE
- AMA-210** 2-1/8" DIA. STAINLESS STEEL
- AMA-220** 2-1/8" DIA. BLACK FIBER

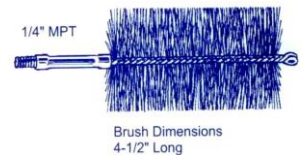
CLOTHES DRYER VENT BRUSH WITH 10' FLEXIBLE HANDLE



AMA-410

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

FLUE AND FURNACE BRUSHES



PART#	FLUE SIZE	BRUSH DIA.	PART#	FLUE SIZE	BRUSH DIA.
SINGLE SPIRAL THREADED NIPPLES			DOUBLE SPIRAL THREADED NIPPLES		
AMA-206	1"	3/4"	AMA-306	1"	3/4"
AMA-208	1-1/4"	1"	AMA-308	1-1/4"	1"
AMA-212	1-1/2"	1-1/4"	AMA-312	1-1/2"	1-1/4"
AMA-214	1-3/4"	1-1/2"	AMA-314	1-3/4"	1-1/2"
AMA-216	2"	1-3/4"	AMA-316	2"	1-3/4"
AMA-218	2-1/4"	2"	AMA-318	2-1/4"	2"
AMA-222	2-1/2"	2-1/4"	AMA-322	2-1/2"	2-1/4"
AMA-224	2-3/4"	2-1/2"	AMA-324	2-3/4"	2-1/2"
AMA-226	3"	2-3/4"	AMA-326	3"	2-3/4"
AMA-228	3-1/4"	3"	AMA-328	3-1/4"	3"
AMA-232	3-1/2"	3-1/4"	AMA-332	3-1/2"	3-1/4"
AMA-234	3-1/4"	3-1/2"	AMA-334	3-1/4"	3-1/2"
AMA-236	4"	3-3/4"	AMA-336	4"	3-3/4"

FLUE AND FURNACE BRUSH HANDLES & EXTENSIONS



AMA-1438 & AMA-1448

- AMA-438** 4' HANDLE 1/4" FPT
- AMA-548** 5' HANDLE 1/4" FPT
- AMA-1438** 4' EXTENSION 1/4" MPT AT ONE END AND 1/4" FPT AT THE OTHER END
- AMA-1448** 5' EXTENSION 1/4" MPT AT ONE END AND 1/4" FPT AT THE OTHER END



BOILER BRUSH

AMA-406 EXTRA LONG HANDLE – STIFF WIRE BOILER BRUSH - BRUSH DIA. 3/4" X 4" – OVERALL LENGTH 42"

WIRE BRUSHES



AMA-010 TEMPERED CARBON STEEL BRISTLES
14" HARDWOOD CURVED HANDLE

AMA-018 STAINLESS STEEL BRISTLES
14" HARDWOOD CURVED HANDLE



AMA-017 TEMPERED CARBON
STEEL BRISTLES 10" HARDWOOD
SHOE HANDLE



**GRILL CLEANING BRUSH
WITH SCRAPER**

MA-46810
STAINLESS STEEL BRISTLES
WITH RUBBER GRIP

OIL OR CHIP BRUSH



AMA-481

**REFRIGERATOR COIL
CLEANING BRUSH**



AMA-405

BRUSH LENGTH 15"
WOOD HANDLE 12"
OVERALL LENGTH 27"

NEW PARTS CLEANING BRUSH



AMA-015

POLY BRUSH MATERIAL
OVERALL LENGTH 10-3/4"



SHOP WIPES

MA-SW70C-6

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

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

**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



A

ACCESS FITTING	21
ADAPTOR KIT, QUICK CHANGE	31
AIR DEFLECTORS	57
AIR FLOW METER, DIGITAL	6
AIR PRESSURE SWITCH TUBING	14
AIR TUBING	14
ALLIGATOR CLIPS, LOW VOLTAGE	29
ALUMINUM FOIL TAPE	53
ALUMINUM TUBING	14
ANCHOR KITS	46
ANTI-SHORT BUSHINGS	19

B

BAND HEATER, REFRIGERANT CYLINDER ..	49
BATTERIES	27
BIRD & PEST GUARD	57
BOILER GAUGES	48
BOOKS	
MODERN REFRIGERATION & AC	37
BORESCOPE	9
BOX COVER UNITS, BUSSMAN	17
BRASS INSERTS	50
BREAKAWAY BRASS FITTINGS	14
BRUSHES	
BOILER	65
CLEANING	65
CONDENSER AND HEAT EXCHANGER	64
CONDENSER FIN WHISK	66
CONDENSER TUBE	65
COPPER TUBE FITTING	64
EXTENSIONS	64
FLUE AND FURNACE	65
FLUX AND ACID	64
GRILL CLEANING	66
NEW PARTS CLEANING	66
NYLON TUBE	65
OIL OR CHIP	66
RADIATOR CLEANING	66
REFRIGERATOR COIL CLEANING	66
VARNISH	66
VENT AND CLOTHES DRYER	65
WELDERS TOOTHBRUSH	66
WIRE	66
BUCKETS AND BUCKET ORGANIZER	37

C

CABLE CLAMPS NYLON	42
CABLE METAL CLAD	19
CABLE STRAPS AND INSULATED STRAPS ...	19
CALIPERS DIAL, DIGITAL, STEEL	34
CAPACITOR TESTER	7
CAPILLARY TUBE CUTTER	30
CARBON MONOXIDE DETECTOR	7
CAULK	52
CAULKING GUNS	52
CEMENT	
BLACK FLASHING	52
FURNACE CEMENT	52
CHISEL SCRAPER	33
CIRCUIT BREAKERS	
REPLACEMENT FOR SQUARE D-STYLE ...	62
SIEMENS	62
SIEMENS DUAL	62
SQUARE D	62
CIRCUIT TESTERS	28-29
CLAMPS	
PIPE CLAMPS	15
SPRING TENSION	57
WORM DRIVE	57
CLAMP ON ADAPTOR	5
COMPRESSOR	
LEADS	29
HOOK-UP KIT	46
CONDENSER FAN RAIN SHIELD	54
CONDENSATE PANS	50

C (CONTINUED)

CONDENSATE TRAPS	53
CONDENSER CLEANING TOOL	31
CONDUIT	
ALUMINUM	19
FLEXIBLE	19
LIQUID TIGHT	19
CONNECTORS	
BUTT SPLICE	43
CLOSED END	43
CONTACTORS	62
COPPER SPUN DRIERS	21
COPPER STRAPS	15
CORK & RUBBER PADS	38
CORK TAPE	53
COVERALLS	36
CRANKCASE HEATERS	50

D

DATA LOGGERS	5
DE-BURRING TOOL	30
DEFROST THERMOSTATS	38
DELFIN SLEEVE	51
DIFFUSERS	57
DIGITAL REFRIGERATION PRESSURE	
AND TEMPERATURE CHART	12
DISCONNECTS, AIR CONDITIONING	
METAL	18
THREE PHASE	18
DRAIN HEATER, UNIVERSAL	50
DRAIN TUBING	14
DRAIN LINE ELBOWS	14
DRAIN PAN SAFETY SWITCH	50
DRIERS	
COPPER SPUN DRIERS	21
LIQUID LINE FILTER DRIERS	22
DRILL SETS	31
DRYER & RANGE RECEPTACLES	60
DRYER VENT	
ALUMINUM	56
WIDE MOUTH HOOD	56
DUCT TAPE	53
DUCT TIES	41
DUCTS	
METALLIC	57
SEMI RIGID ALUMINUM	57
DUST MASKS	36

E

ELECTRICAL TAPE	53
ELECTRICAL POCKET TESTERS	28
ENVIRONMENTAL KIT	6
EVACUATION QUICK PIERCE TOOL	32
EXTENSION CORDS	28
EXTENSION RINGS	63

F

FAN BLADES	55
FAN BLADE PITCH GAUGE	55
FIN COMBS	31
FIRST AID KIT	36
FITTINGS	
BLACK IRON PIPE	23
BX-FLEXIBLE METAL CONDUIT	19
FERNCO COUPLINGS	25
LIQUID TIGHT - METAL	18
LIQUID TIGHT - NON METALLIC	18
NYLON	25-26
PVC	24
RIDGID CONDUIT	20
THINWALL CONDUIT (EMT)	20
FLAME SHEILDS	49
FLARE NUT WRENCH SET	31
FLASHING CEMENT	52
FLASHLIGHTS	27
FLOOD ALERT	13
FOAM SEALANT	52
FOAM TAPE	53
FREEZE ALERT	13

F (CONTINUED)

FURNACE BLOCK	18
FURNACE CEMENT	52
FURNACE LIGHTER - TELESCOPIC	33
FUSE ADAPTOR - TYPE S	16
FUSE HOLDER - IN-LINE	17
FUSE PULLERS	17
FUSE REDUCER	17
FUSES	16-17

G

GARDEN HOSE	14
GARDEN HOSE NOZZLE	14
GAS BALL VALVES	48
GAS CONNECTORS - FLEXIBLE	48
GASKET MATERIAL	33
GASKET SCRAPER	33
GAUGE BOOTS - PROTECTIVE	48
GAUGES - BOILER GAUGES	48
GAS PRESSURE TEST GAUGE	48
GLOVES	36
GLYCOL REFRACTOMETER	50
GREASE	37
GREASE GUNS	37
GRILLS - REGISTERS	57
GROMMET KIT - RUBBER	54
GROMMETS	42

H

HACKSAWS & BLADES	34
HANGER STRAP - PLASTIC	15
HANGING WIRE	15
HARD START KITS - EXTRA BOOST	18
HEAT GUNS	51
HEAT PUMP STANDS	18
HEX KEY ADAPTOR	31
HEX KEY SETS	30
HOLESAW KITS	30
HOSE CLAMPS	15
HOSE CUTTER	30
HUB PULLER	31
HUMIDIFIER HOOK UP KIT	51
HUMIDITY/TEMPERATURE TESTER	5

I

ICE MAKER & HUMIDIFIER	
HOOK UP KITS	51
INFRARED THERMOMETER	10
IN-LINE SPLICE	43
INSPECTION MIRRORS	9

J

J-HOOKS	15
---------------	----

K

KNIVES	33
--------------	----

L

LABELS - REFRIGERANT	49
LASER TAPE MEASURE	8
LED FLASHLIGHTS	27
LEVELS	33
LIGHT BULBS	28
LINE VOLTAGE CORD ADAPTORS	29
LIQUID LEVEL SWITCHES FOR	
RECOVERY CYLINDERS	49
LOCKING PINCH-OFF TOOL	32
LUG MOUNTING BRACKET	54

M

MAGNA-LITE	27
MAGNETIC ASSORTED BITS	35
MAGNETIC PARTS TRAY	35
MANOMETERS	6

M (CONTINUED)

MARKING PEN	51
MASKS – DUST & PARTICLE	36
MAXICAP COVERS	48
MEGOHMETER	2
METAL FITTINGS FOR LIQUID TITE	18
METALLIC DUCT	57
METERS	
AC/DC DIGITAL MULTIMETER WITH	
AUTO SELECTION	2
ANEMOMETER	6
ANALOG METER	3
ANALOG CLAMP ON	3
AUTO-RANGING MULTI-METER	2
DIGITAL CLAMP ON METERS	4
DIGITAL MULTI-METER	3
ENVIRONMENTAL KIT	6
MANOMETER	6
OPEN JAW VOLTAGE METER	7
PEN PROBE STYLE	8
SOUND METER	6
SUPERHEAT KIT	11
MICROWAVE LEAK DETECTOR	8
MIRRORS	
GLASS – TELESCOPIC	9
REPLACEMENT GLASS	9
MIRRORS WITH LED LIGHTS	9
STAINLESS STEEL – TELESCOPIC	9
MOISTURE INDICATOR	8
MOUNTING BRACKETS	54
MOUNTING PADS – NATURAL RUBBER	38
MOTOR AND PHASE INDICATOR	7
MULTI-BIT & DRIVER KIT	30
MULTI-TOOL – MINI POCKET	33

N

NATURAL GAS INDICATOR	8
NEOPRENE TUBING	14
NIPPLES – BLACK WELDED	22
NIPPLE TRAY	23
NOZZLE – GARDEN HOSE	14
NUT DRIVER SET	32
NUT KITS	46
NUTS	51
NYLON INSERT LOCK NUT KIT	46
NYLON CARRYING POUCH	37

O

OIL PUMP	37
OIL REFRACTOMETER	50
OUTLET BOXES	63
OUTLET BOX COVERS	63

P

PERFORATED STRAP	
GALVANIZED AND COPPER	15
PEN PROBE STYLE MULTI-METER	8
PHASE ROTATION INDICATOR	7
PICK-UP TOOLS	33
PIPE CLAMP TEMPERATURE LEAD	5
PIPE CLAMPS	15
PIPE FITTINGS – BLACK IRON	22
PIPE HANGERS	15
PIPE JOINT COMPOUND	53
PIPE NIPPLES	22
PIPE WRENCHES	31
PIPES AND ELBOW, ALUMINUM	57
PIPING THERMOMETER	12
PLASTIC HANGER STRAP	15
PLASTIC SPRAYERS	54
PLIERS	32
PRESSURE SWITCHES (HIGH & LOW)	38
PROBES STAINLESS STEEL	3
PROPANE GAS INDICATOR	8
PROTECTIVE COVER	
DUPLEX RECEPTACLE	60
PSYCHROMETER	6
PUMP STANDS	18
PUTTY KNIFE	33
PVC CEMENT	52-53
PVC PIPE CUTTER	34

R

R-410 ADAPTER	31
REAMER	30
RECEPTACLES – STRAIGHT BLADE	61
REFRACTOMETERS – GLYCOL & OIL	50
REFRIGERANT LABELS	49
REFRIGERANT RECOVERY CYLINDERS	49
REFRIGERANT RECOVERY TOOL	32
REFRIGERANT	
RETENTION CONTROL VALVE	21
RELAY OVERLOAD	29
ROPE – POLYPROPYLENE	54
RUBBER STRAPS	54
RUBBER VIBRATION PADS	38

S

SAND CLOTH & PADS	48
SCALES	50
SCREWDRIVER BITS	35
SCREWDRIVER SET	30
SCREWDRIVERS	30
SCREWS	35
SCREWSTARTERS	33
SCRIBE	33
SENSORS AC, LOW VOLTAGE AC	29
SHOE COVERS	36
SHOP TOWELS	66
SILICONE TUBING	14
SMOKE CARTRIDGES	37
SNIPS	34
SOCKET SET	32
SOLENOID VOLTAGE TESTER	29
SPRAYERS – PLASTIC	54
STORAGE DRAWERS	46
STRAINERS – PLASTIC	51
STRAPS	
NYLON	54
PERFORATED	15
RUBBER	54
STUD SENSOR	8
SUPER HEAT INSTRUMENT	11
SWAGING TOOL	30
SWITCHES	60

T

TACHOMETER	7
TANKS	49
TAPE	53
TAPE MEASURE	34
TERMINALS	
90 DEG. DISCONNECT WITH SCREW	44
BUTT CONNECTORS	43
COMPRESSOR	44
DISCONNECT NON-INSULATED	43
FLAG DISCONNECT	44
HIGH TEMPERATURE	43
QUICK DISCONNECT INSULATED	44
RING INSULATED	43
SPADES INSULATED	44
SPECIAL DEVICES	43
RING NON-INSULATED	44
SPADE NON-INSULATED	44
TERMINAL BLOCKS	44
TEST LEADS	
ADAPTORS	29
LOW VOLTAGE	29
START SWITCH	29
THERMOMETERS	
DIGITAL HAND HELD	11
DIGITAL STEM	11
DUAL PROBE	11
INDOOR/OUTDOOR	13
INFRAREDS	10
HORIZONTAL	13
PIPING	12
POCKET DIAL	12
POCKET DIGITAL	12

T (CONTINUED)

THERMOMETERS (CONTINUED)	
POCKET HYGROMETERS	12
POCKET STICK	12
ROTARY PROBE	11
REFRIGERATOR/FREEZER/OVEN	13
SOLAR POWER	13
SOLAR POWER REMOTE READING	13
VAPOR TENSION REMOTE READING	13
THERMOSTAT COVERS	56
THERMOSTAT DEFROST	38
THREADED ROD	51
TIME DELAYS	17
TOGGLE SWITCHES	60
TOOL BAGS	37
TOOL CASES	37
TOOLS	30-34
TOWELS	66
TRANSFORMERS	38
TROUBLE LIGHTS	28
TUBING	14

U

UV FLASHLIGHTS	27
UNIT COOLERS	58-59
UTILITY BOXES	63
UTILITY CUTTERS	33

V

V-BELTS	55
VACUUM CHARGE VALVE & CORE TOOL	21
VENT HOODS	56
VIBRATION ELIMINATORS	39
VIBRATION PADS	38
VIDIO BORESCOPE	9
VISE-GRIPS LOCKING HAND TOOLS	32
VOLTAGE TESTER	28-29

W

WALL PLATES	61
WASHERS	51
WASHING MACHINE PANS	50
WATER HEATER PANS	50
WATER LINE TAP VALVES	21
WATTMETER	7
WHIPS	18
WINDOW UNIT AC COVERS	51
WIRE	
THHN	47
GLASS BRAIDED SILICONE RUBBER	47
POLYETHYLENE RANGE	47
MOTOR HOOK UP	47
WIRE CONNECTORS	45
WIRE MARKER ID SYSTEM DISPENSER	44
WIRE PIPE HANGERS	15
WIRE STRIPPERS	32
WIRE TIE GUN	41
WIRE TIES	40-41
WORKLIGHTS	28
WRENCHES	
ADJUSTABLE	31
FLARE NUT	31
FLEXIBLE RATCHET WRENCH SET	31
OFFSET	31
PIPE	31
REVERSIBLE RATCHET WRENCH SET	31
STRAIGHT	31

PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #
3054	49	2P40A240V	62	4040FS	39	AF1200	21	AMA-132	64	AMA-519	64
5125	51	2P40A24V	62	413B2X10-R	57	AF1200-50	21	AMA-133	64	AMA-522	64
32745	38	3015W15-R	57	413B2X12-R	57	AF12516	21	AMA-1438	65	AMA-525	64
32750	38	3018W18-R	57	413B4X10-R	57	AF1300	21	AMA-1448	65	AMA-528	64
32755	38	3030FS	39	413B4X12-R	57	AF1300-50	21	AMA-200	65	AMA-530	65
32760	38	3434FY	39	5050FS	39	AF13516	21	AMA-206	65	AMA-531	64
32770	38	3458FY	39	5252FS	39	AF1400	21	AMA-208	65	AMA-533	64
32780	38	3618FZ	39	5454FY	39	AF1400-50	21	AMA-210	65	AMA-539	65
32790	38	372W10X4	57	5614FZ	39	AF1500	21	AMA-212	65	AMA-548	65
33329	38	372W10X6	57	6060FS	39	AF1500-50	21	AMA-214	65	AMA-565	65
33330	38	372W10X8	57	6464FS	39	AF1600	21	AMA-216	65	AMA-582	65
33353	38	372W12X12	57	7272FS	39	AF1600-50	21	AMA-218	65	AMA-602	64
33354	38	372W12X4	57	8080FS	39	AF1700	21	AMA-220	65	AMA-604	64
33355	38	372W12X6	57	8910DP22V02	62	AF1700-50	21	AMA-222	65	AMA-607	64
33356	38	372W12X8	57	8910DP22V09	62	AF1800	21	AMA-224	65	AMA-610	64
33357	38	372W14X14	57	8910DP22V14	62	AF1800-50	21	AMA-226	65	AMA-613	64
33358	38	372W14X20	57	8910DP32V02	62	AF1900	21	AMA-228	65	AMA-616	64
33359	38	372W14X6	57	8910DP32V09	62	AF1900-50	21	AMA-232	65	AMA-619	64
33362	38	372W14X8	57	8910DP32V14	62	AF2000	21	AMA-234	65	AMA-622	64
33363	38	372W20X20	57	8910DP42V02	62	AF2000BX	21	AMA-236	65	AMA-625	64
33364	38	372W30X6	57	8910DP42V09	62	AF2100	21	AMA-254	66	AMA-628	64
1010FY	39	372W8X8	57	8910DP42V14	62	AF2100-100	21	AMA-306	65	AMA-631	64
112P30A120V	62	382W10X4-R	57	8910DPA23V02	62	AF2100-25	21	AMA-308	65	AMA-633	64
112P30A240V	62	382W10X6-R	57	8910DPA23V09	62	AF2200-M	21	AMA-312	65	AMA-702	64
112P30A24V	62	382W10X8-R	57	8910DPA23V14	62	AF3134	21	AMA-314	65	AMA-704	64
1212FY	39	382W12X4-R	57	8910DPA33V02	62	AF3135	21	AMA-316	65	AMA-707	64
1258FY	39	382W12X6-R	57	8910DPA33V09	62	AF3136	21	AMA-318	65	AMA-710	64
1418FZ	39	382W12X8-R	57	8910DPA33V14	62	AF3138	21	AMA-322	65	AMA-713	64
1500W10	57	382W14X4-R	57	8910DPA43V02	62	AF3140	21	AMA-324	65	MA-716	64
1500W6	57	382W14X6-R	57	8910DPA43V09	62	AF3142	21	AMA-326	65	AMA-719	64
1500W8	57	382W14X8-R	57	8910DPA43V14	62	AF3144	21	AMA-328	65	AMA-722	64
1800B10	57	382W8X4-R	57	8910DPA53V02	62	AF3148	21	AMA-332	65	AMA-725	64
1800B6	57	382W8X6-R	57	8910DPA53V09	62	AMA-001	64	AMA-334	65	AMA-728	64
1800B8	57	382W8X8-R	57	8910DPA53V14	62	AMA-001-10	64	AMA-336	65	AMA-731	64
181SP-02	14	3838FZ	39	8910DPA63V02	62	AMA-002	64	AMA-348	65	AMA-733	64
181SP-03	14	3C	37	8910DPA63V09	62	AMA-002-10	64	AMA-405	66	AMA-762	65
181SP-04	14	3P30A120V	62	8910DPA63V14	62	AMA-003	64	AMA-406	65	AMA-763	65
181SP-06	14	3P30A240V	62	8910DPA73V02	62	AMA-003-5	64	AMA-410	60	AMA-765	65
1A	37	3P30A24V	62	8910DPA73V09	62	AMA-007	64	AMA-438	60	AMA-816	66
1P30A24V	62	3P40A120V	62	8910DPA73V14	62	AMA-007-2	64	AMA-481	61	AMA-824	64
1P40A24V	62	3P40A240V	62	8910DPA93V02	62	AMA-010	66	AMA-502	59	AMA-825	64
2020FS	39	3P40A24V	62	8910DPA93V09	62	AMA-015	66	AMA-503	61	AMA-826	64
2B	37	3P50A120V	62	8910DPA93V14	62	AMA-017	66	AMA-504	59	AMA-827	64
2P20A24V	62	3P50A240V	62	AF1000	21	AMA-018	66	AMA-505	61	AMA-828	64
2P30A120V	62	3P50A24V	62	AF1000-50	21	AMA-020	66	AMA-507	59	AMA-829	64
2P30A240V	62	3P60A120V	62	AF1100	21	AMA-026	66	AMA-510	59	AMA-830	64
2P30A24V	62	3P60A240V	62	AF1100-50	21	AMA-044	64	AMA-513	59	AMA-831	64
2P40A120V	62	3P60A24V	62	AF11516	21	AMA-130	64	AMA-516	64	AMA-832	64

PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #
AMA-833	64	DCH309S	22	MA01019-1	45	MA0130-50	34	MA02543-1	43	MA02774-2	44
AMA-834	64	DCHBF083S	22	MA01019-2	45	MA0131-100	34	MA02544-1	43	MA02776-1	44
AMA-835	64	DCHBF163S	22	MA01019-3	45	MA-0160T	23	MA02547-1	43	MA02777-2	44
AMA-836	64	HOM115	62	MA01019BX	45	MA-018CR	38	MA02548-1	43	MA02779-1	44
AMA-924	64	HOM120	62	MA01019P	45	MA-018RR	38	MA02549-1	43	MA02780-2	44
AMA-925	64	HOM130	62	MA01020-1	45	MA02012-1	46	MA02551-1	43	MA02782-1	44
AMA-926	64	HOM140	62	MA01020-2	45	MA02013-1	43	MA02577-1	43	MA02783-2	44
AMA-927	64	HOM150	62	MA01020-3	45	MA02014-1	43	MA02578-1	43	MA02785-1	44
AMA-928	64	HOM215	62	MA01020BX	45	MA02015-1	46	MA02579-1	43	MA02786-2	44
AMA-929	64	HOM220	62	MA01020P	45	MA02043-1	41	MA02580-1	43	MA02816-1	43
AMA-930	64	HOM230	62	MA01021-1	45	MA02044-1	44	MA02581-1	43	MA02818-1	43
AMA-931	64	HOM240	62	MA01021-2	45	MA02045-1	44	MA02583-1	43	MA02820-1	43
AMA-932	64	HOM250	62	MA01021-3	45	MA02046-1	41	MA02584-1	43	MA02821-1	44
AMA-933	64	HOM260	62	MA01021BX	45	MA02065-1	44	MA02585-1	43	MA02822-2	44
AMA-934	64	MA00014-1	17	MA01021P	45	MA02065-2	44	MA02586-1	43	MA02823-1	44
AMA-935	64	MA00030-1	17	MA01022-1	45	MA02066-1	43	MA02587-1	43	MA02824-2	44
AMA-936	64	MA00036-1	42	MA01022-2	45	MA02066-2	43	MA02588-1	43	MA02825-1	44
AMA-960	64	MA00098-1	42	MA01022-3	45	MA02109-1	43	MA02589-1	43	MA02826-2	44
AMA-963	64	MA00099-1	42	MA01022BX	45	MA021120-2	41	MA02590-1	43	MA02827-1	44
AMA-964	64	MA00100-1	42	MA01022P	45	MA021120-2B	41	MA02591-1	43	MA02828-2	44
AMA-965	64	MA00101-1	42	MA01023-1	43	MA02127-1	44	MA02592-1	44	MA02830-1	44
AMA-966	64	MA00102-1	42	MA01023-2	43	MA02127-2	44	MA02595-1	43	MA02833-1	44
AMA-967	64	MA-00106	49	MA01029-1	43	MA02142-1	44	MA02596-2	43	MA02834-2	44
AMA-968	64	MA00151-1	42	MA01029-2	43	MA02142-2	44	MA02597-2	43	MA02837-2	44
AMA-969	64	MA00152-1	42	MA01042-1	43	MA02148-2	44	MA02598-2	43	MA02839-1	44
AMA-970	64	MA00153-1	42	MA01042-2	43	MA02149-2	44	MA02618-2	44	MA02840-2	44
D109	20	MA00154-1	42	MA01043-1	43	MA02150-2	44	MA02619-2	43	MA02842-1	44
D110	20	MA-00205	54	MA01043-2	43	MA02151-2	44	MA02620-2	43	MA02843-2	44
D111	20	MA-002CR	38	MA01046-1	43	MA02152-2	44	MA02621-2	43	MA02860-1	44
D112	20	MA-002RR	38	MA01046-2	43	MA02153-2	44	MA02622-2	43	MA02861-2	44
D113	20	MA-00304	54	MA01066-1	43	MA-0230	31	MA02623-2	43	MA02869-1	44
D114	20	MA-003CR	38	MA-010669	6	MA02512G	47	MA02652-2	46	MA02870-2	44
D115	20	MA-003RR	38	MA01123-1	44	MA02512P	47	MA02653-2	46	MA02872-1	44
DCH052F	22	MA00478-1	14	MA01124-1	44	MA02514G	47	MA02707-2	44	MA02873-2	44
DCH032S	22	MA00479-1	14	MA01130-1	44	MA02514P	47	MA02724-2	44	MA02875-1	44
DCH033S	22	MA00480-1	14	MA01130-2	44	MA02521-1	43	MA02726-1	44	MA02876-2	44
DCH052S	22	MA-004CR	38	MA01164-1	45	MA02522-1	43	MA02727-2	44	MA02881-1	44
DCH053S	22	MA-004RR	38	MA01164C-2	45	MA02525-2	51	MA02729-1	44	MA02882-2	44
DCH082S	22	MA-006CR	38	MA01165-1	45	MA02525-3	51	MA02729-2	44	MA02894-1	44
DCH083S	22	MA-006RR	38	MA01165C-2	45	MA02525-EUKIT	51	MA02744-1	44	MA02894-2	44
DCH163S	22	MA01012G	47	MA01166-1	45	MA02526-1	43	MA02745-2	44	MA02896-1	43
DCH164S	22	MA01012P	47	MA01166C-2	45	MA02528-1	43	MA02746-1	44	MA02896-2	43
DCH165S	22	MA01014G	47	MA0126-12	34	MA02530-1	43	MA02747-2	44	MA02898-2	43
DCH303S	22	MA01014P	47	MA0127-16	34	MA02532-1	43	MA02749-1	44	MA02903-1	43
DCH304S	22	MA01018-1	45	MA0128-25	34	MA02534-1	43	MA02762-2	44	MA02904-2	43
DCH305S	22	MA01018-2	45	MA0129-30	34	MA02536-1	43	MA02770-1	44	MA02906-1	43
DCH306S	22	MA01018-3	45	MA-012CR	38	MA02537-1	43	MA02771-2	44	MA02907-2	43
DCH307S	22	MA01018BX	45	MA-012RR	38	MA02541-1	43	MA02773-1	44	MA02911-2	43

PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #
MA02933-1	29	MA03075-1	45	MA03172-2	41	MA03230-3	47	MA03414-2	35	MA03567-3	35
MA02936-1	29	MA03076-2	45	MA03174-1	41	MA03231-2	47	MA03414-4	35	MA-0360	54
MA02939-2	43	MA03077-1	45	MA03175-2	41	MA03231-3	47	MA03415-2	35	MA-0361	54
MA02940-2	43	MA03090-1	29	MA03177-1	41	MA03232-2	47	MA03415-4	35	MA036175-2	41
MA02942-2	43	MA03092-1	29	MA03178-2	41	MA03232-3	47	MA03416-2	35	MA036175-2B	41
MA02944-2	43	MA03093-1	29	MA03180-1	41	MA03233-2	47	MA03416-4	35	MA-0362	54
MA02951-2	43	MA03096-2	29	MA03181-2	41	MA03233-3	47	MA03417-2	35	MA-0363	54
MA02952-2	43	MA03149-1	42	MA03183-1	41	MA03234-2	47	MA03417-4	35	MA03750-2	46
MA02955-1	43	MA03149-2	42	MA03184-2	41	MA03234-3	47	MA03465-1	43	MA03751-2	46
MA02955-2	43	MA03150-1	42	MA03185-1	41	MA03235-2	47	MA03466-1	43	MA03752-2	46
MA02956-1	43	MA03150-2	42	MA03188-2	41	MA03235-3	47	MA03467-1	43	MA03754-2	46
MA02960-1	43	MA03151-1	42	MA03189-1	41	MA03236-2	47	MA03467-2	43	MA03756-2	46
MA02962-2	43	MA03151-2	42	MA03190-2	41	MA03236-3	47	MA03469-1	43	MA03757-2	46
MA02968-1	43	MA03152-1	42	MA03192-1	41	MA03237-2	47	MA03469-2	43	MA03758-1	35
MA02968-2	43	MA03152-2	42	MA03193-2	41	MA03237-3	47	MA03471-1	43	MA03758-2	35
MA02969-1	43	MA03153-1	42	MA03195-1	41	MA03238-2	47	MA03471-2	43	MA03758-3	35
MA02969-2	43	MA03153-2	42	MA03196-2	41	MA03238-3	47	MA03473-1	43	MA03759-1	35
MA02971-2	43	MA03154-1	42	MA03198-1	41	MA03239-2	47	MA03473-2	43	MA03759-2	35
MA02973-1	43	MA03154-2	42	MA03199-2	41	MA03239-3	47	MA03475-1	43	MA03759-3	35
MA02974-2	43	MA03155-1	42	MA03200-2	32	MA03240-2	47	MA03475-2	43	MA03760-1	35
MA02975-2	43	MA03155-2	42	MA03203-2	32	MA03240-3	47	MA03477-1	43	MA03760-2	35
MA02977-2	43	MA03156-1	42	MA03217-2	47	MA03241-2	47	MA03477-2	43	MA03760-3	35
MA02978-2	43	MA03156-2	42	MA03217-3	47	MA03241-3	47	MA03500-2	31	MA03761-1	35
MA02980-1	43	MA03157-1	42	MA03218-2	47	MA03343-1	44	MA03505-2	31	MA03761-2	35
MA02982-2	43	MA03157-2	42	MA03218-3	47	MA03344-2	44	MA03506-2	31	MA03761-3	35
MA02983-2	43	MA03158-1	42	MA03219-2	47	MA03344-3	44	MA03507-2	31	MA03762-1	35
MA02984-2	29	MA03158-2	42	MA03219-3	47	MA03349-1	43	MA03508-2	31	MA03762-2	35
MA02984-3	29	MA03159-1	42	MA03220-2	47	MA03353-2	46	MA03509-2	31	MA03762-3	35
MA02985-2	29	MA03159-2	42	MA03220-3	47	MA03355-2	46	MA03510-2	31	MA03763-1	35
MA02985-3	29	MA03161-1	42	MA03221-2	47	MA03360-1	44	MA-03532	28	MA03763-2	35
MA02987-2	29	MA03161-2	42	MA03221-3	47	MA03361-2	44	MA-03533	28	MA03763-3	35
MA02991-3	29	MA03162-1	42	MA03222-2	47	MA03362-1	44	MA03539-2	35	MA03765-1	41
MA03011-2	43	MA03162-2	42	MA03222-3	47	MA03363-2	44	MA03539-24	35	MA03771-1	44
MA03012-2	43	MA03163-1	42	MA03223-2	47	MA03364-2	44	MA0353940-MX	35	MA03772-1	44
MA03013-2	43	MA03163-2	42	MA03223-3	47	MA03373-2	45	MA03540-2	35	MA03773-1	44
MA03015-1	43	MA03164-1	42	MA03224-2	47	MA03375-2	46	MA03540-24	35	MA03774-1	44
MA03016-2	43	MA03164-2	42	MA03224-3	47	MA03376-2	46	MA03541-2	35	MA03775-1	44
MA03018-1	43	MA03165-1	42	MA03225-2	47	MA03383-1	14	MA03541-24	35	MA03775-2	44
MA03019-2	43	MA03165-2	42	MA03225-3	47	MA03385-1	14	MA03542-2	35	MA03776-1	44
MA03022-2	43	MA03166-1	42	MA03226-2	47	MA03387-1	14	MA03543-2	35	MA03778-2	44
MA03023-2	43	MA03166-2	42	MA03226-3	47	MA03389-1	14	MA03544-2	35	MA03779-2	44
MA03028-1	43	MA03167-1	42	MA03227-2	47	MA03391-1	14	MA03545-2	35	MA03780-2	44
MA03029-2	43	MA03167-2	42	MA03227-3	47	MA03393-1	14	MA03546-2	35	MA03781-2	44
MA03033-2	43	MA03168-1	42	MA03228-2	47	MA03394-1	14	MA03565-2	35	MA03782-2	44
MA03034-2	43	MA03168-2	42	MA03228-3	47	MA03395-1	44	MA03565-3	35	MA03783-2	44
MA03035-2	43	MA03169-1	42	MA03229-2	47	MA03395-2	44	MA03566-2	35	MA03784-1	44
MA03042-1	43	MA03169-2	42	MA03229-3	47	MA03413-2	35	MA03566-4	35	MA03784-2	44
MA03063-1	43	MA03171-1	41	MA03230-2	47	MA03413-4	35	MA03567-2	35	MA03785-1	44

PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #
MA03785-2	44	MA-09709	28	MA-10350	48	MA-12004-25	26	MA-1225	60	MA-12CAP	23
MA03790-2	43	MA-09857	28	MA-1056-075	28	MA-12004-50	26	MA-12353	5	MA-12CPLG	23
MA03791-2	43	MA-09858	28	MA-1056-100	28	MA-1201	30	MA-12355B	5	MA-12PLG	23
MA03792-2	43	MA0HT12B1	47	MA-1056-22	28	MA-12010	26	MA-12356	5	MA-12T	23
MA03793-1	44	MA0HT12B2	47	MA-1056-33	28	MA-12010-100	26	MA-12357A	5	MA-12U	23
MA03793-2	44	MA0HT12B3	47	MA-1056-44	28	MA-12010-25	26	MA-12358	5	MA-132A	34
MA03794-2	44	MA0HT12B4	47	MA-1056-32	28	MA-12010-50	26	MA-12361	3	MA-134BG	23
MA03798-1	44	MA0HT12B5	47	MA10602-1	45	MA-12013	26	MA-12362	3	MA-134CPLG	23
MA03798-2	44	MA0HT12R1	47	MA10602-2	45	MA-12013-100	26	MA-1238BG	23	MA-14012	52
MA03802-2	46	MA0HT12R2	47	MA10602BX	45	MA-12013-25	26	MA-1245EL	23	MA-14025	52
MA04132-1	45	MA0HT12R3	47	MA10604-1	45	MA-12013-50	26	MA-12535	53	MA-14050	52
MA04233-2	45	MA0HT12R4	47	MA10604-2	45	MA-1202	30	MA-12537	53	MA-14051	52
MA04501-2	60	MA0HT12R5	47	MA10604BX	45	MA-12032	25	MA-12545	53	MA-14052	52
MA04502-2	60	MA0HT12W1	47	MA10606-1	45	MA-12032-100	25	MA-12547	53	MA-14053	52
MA04503-2	60	MA0HT12W2	47	MA10606-2	45	MA-12032-25	25	MA-12548	53	MA-14054	52
MA04504-2	60	MA0HT12W3	47	MA10606BX	45	MA-12032-50	25	MA-1257	60	MA-14055	52
MA04505-2	60	MA0HT12W4	47	MA10608-1	45	MA-12033	25	MA-1258	60	MA-14056	52
MA04506-2	60	MA0HT12W5	47	MA10608-2	45	MA-12033-100	25	MA-1266T	23	MA-14057	52
MA-04625	48	MA0HT14B1	47	MA10608BX	45	MA-12033-25	25	MA-12700A	2	MA-142-1	9
MA04702-2B	41	MA0HT14B2	47	MA10610P	45	MA-12033-50	25	MA-12701	7	MA-142A	9
MA04704-2B	41	MA0HT14B3	47	MA-10CR	32	MA-12034	25	MA-12702	7	MA-142MA	9
MA04706-2B	41	MA0HT14B4	47	MA-10DT12	15	MA-12034-100	25	MA-12813	4	MA-143A	9
MA04708-2B	41	MA0HT14B5	47	MA-10DT34	15	MA-12034-25	25	MA-12814	3	MA-143M	9
MA04710-2B	41	MA0HT14R1	47	MA-10WR	32	MA-12034-50	25	MA-12815A	7	MA-145EL	23
MA04712-2B	41	MA0HT14R2	47	MA-1109	54	MA-12035	25	MA-12816A	3	MA-147B	31
MA04793-2B	41	MA0HT14R3	47	MA-11-12X	52	MA-12035-100	25	MA-12817B	2	MA-149	9
MA04796-2B	41	MA0HT14R4	47	MA-1115	54	MA-12035-25	25	MA-12818	2	MA-149-1	9
MA04799-2B	41	MA0HT14R5	47	MA-1119	37	MA-12035-50	25	MA-12819	7	MA-1500	49
MA048175-2	41	MA0HT14W1	47	MA-1122	54	MA-12052	25	MA-12821	7	MA-15005	19
MA048175-2B	41	MA0HT14W2	47	MA-112BG	23	MA-12052-100	25	MA-12822A	4	MA-15007	19
MA-04907	28	MA0HT14W3	47	MA-112CPLG	23	MA-12052-25	25	MA-12823	3	MA-15008	19
MA05007-2	41	MA0HT14W4	47	MA-1-12X	52	MA-12052-50	25	MA-12826A	4	MA-157-1	9
MA05008-2	41	MA0HT14W5	47	MA-11302	37	MA-12053	25	MA-12827	2	MA-157A	9
MA05012G	47	MA-1001	27	MA-1131	54	MA-12053-100	25	MA-12829	2	MA-159A	33
MA05012P	47	MA-10010	19	MA-11315	37	MA-12053-25	25	MA-12830A	7	MA-155A	16
MA05014G	47	MA-1001S	13	MA-1132L	36	MA-12053-50	25	MA-12830A-S	7	MA-16501	10
MA05014P	47	MA-10050	19	MA-11354	37	MA-12054	25	MA-12834	12	MA-16505A	10
MA-05028	37	MA-10075	19	MA-114	33	MA-12054-100	25	MA-12835B	6	MA-16506	10
MA05031-2	29	MA-101	52	MA-1141	54	MA-12054-25	25	MA-12836	12	MA-16507	10
MA0512G	47	MA-102	52	MA-1148	37	MA-12054-50	25	MA-12837	2	MA-16509B	10
MA0512P	47	MA-10214	37	MA-11830	52	MA-12055	25	MA-12838A	6	MA-16531B	6
MA0514G	47	MA-10218	37	MA-11840	52	MA-12056	25	MA-12842	7	MA-16532	11
MA0514P	47	MA-10344	48	MA-11853	52	MA-12057	25	MA-12843B	6	MA-16533	6
MA-0620	27	MA-10345	48	MA-11866	52	MA-12060	26	MA-12844	7	MA-16542	5
MA06295-2	45	MA-10346	48	MA-11879	52	MA-12060-100	26	MA-12845	8	MA-16544	5
MA06295P	45	MA-10347	48	MA-1200	30	MA-12060-25	26	MA-128500	49	MA-16551	10
MA09353-2	35	MA-10348	48	MA-12004	25	MA-12060-50	26	MA-1290EL	23	MA-1660	13
MA09354-2	35	MA-10349	48	MA-12004-100	26	MA-1212	60	MA-1290STEL	23	MA-1665C	13

PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #
MA-167L	36	MA-22002-25	26	MA-22049-25	26	MA-22152-25	25	MA-22263-25	25	MA-30307	24
MA-16N	33	MA-22002-50	26	MA-22049-50	26	MA-22152-50	25	MA-22263-50	25	MA-30311	24
MA-16RR	33	MA-22003	26	MA-22064	26	MA-22153	25	MA-22264	25	MA-30357	24
MA-16SA	16	MA-22003-100	26	MA-22064-100	26	MA-22153-100	25	MA-22264-100	25	MA-30405	24
MA-171	33	MA-22003-25	26	MA-22064-25	26	MA-22153-25	25	MA-22264-25	25	MA-30407	24
MA-17255	48	MA-22003-50	26	MA-22064-50	26	MA-22153-50	25	MA-22264-50	25	MA-30410	24
MA-17256	48	MA-22005	26	MA-22065	26	MA-22154	25	MA-22286	25	MA-30457	24
MA-17257	48	MA-22005-100	26	MA-22065-100	26	MA-22154-100	25	MA-22286-100	25	MA-30605	24
MA-174	33	MA-22005-25	26	MA-22065-25	26	MA-22154-25	25	MA-22286-25	25	MA-30607	24
MA-174D	33	MA-22005-50	26	MA-22065-50	26	MA-22154-50	25	MA-22286-50	25	MA-30610	24
MA-175D	33	MA-22006	26	MA-22066	26	MA-22157	25	MA-22289	26	MA-30705	24
MA-176E	33	MA-22006-100	26	MA-22066-100	26	MA-22157-100	25	MA-22289-100	26	MA-30707	24
MA-179ED	61	MA-22006-25	26	MA-22066-25	26	MA-22157-25	25	MA-22289-25	26	MA-30710	24
MA-181834	38	MA-22006-50	26	MA-22066-50	26	MA-22157-50	25	MA-22289-50	26	MA-30818	52
MA-181838	38	MA-22007	26	MA-22112	25	MA-22159	25	MA-22290	26	MA-30821	52
MA-185	33	MA-22007-100	26	MA-22112-100	25	MA-22159-100	25	MA-22290-100	26	MA-30834	52
MA-186	33	MA-22007-25	26	MA-22112-25	25	MA-22159-25	25	MA-22290-25	26	MA-30847	52
MA-18975	21	MA-22007-50	26	MA-22112-50	25	MA-22159-50	25	MA-22290-50	26	MA-30F3	18
MA-18985	21	MA-22009	26	MA-22113	25	MA-22160	25	MA-2300	50	MA-30SA	16
MA-190	36	MA-22009-100	26	MA-22113-100	25	MA-22160-100	25	MA-25E29821	20	MA-31012	52
MA-190EL	22	MA-22009-25	26	MA-22113-25	25	MA-22160-25	25	MA-25E29831	20	MA-31013	52
MA-190STEL	22	MA-22009-50	26	MA-22113-50	25	MA-22160-50	25	MA-25E29832	20	MA-31014	52
MA-19173	31	MA-22010	26	MA-22114	25	MA-22161	25	MA-25E59	20	MA-31015	52
MA-192	36	MA-22010-100	26	MA-22114-100	25	MA-22161-100	25	MA-25E80	20	MA-311	37
MA-1CAP	23	MA-22010-25	26	MA-22114-25	25	MA-22161-25	25	MA-263	17	MA-31132	52
MA-1CPLG	23	MA-22010-50	26	MA-22114-50	25	MA-22161-50	25	MA-263-R	17	MA-31133	52
MA-1PLG	23	MA-22012	26	MA-22116	25	MA-22182	26	MA-290	30	MA-31226	53
MA-1RR	32	MA-22012-100	26	MA-22116-100	25	MA-22182-100	26	MA-2E1441	20	MA-31227	53
MA-1T	23	MA-22012-25	26	MA-22116-25	25	MA-22182-25	26	MA-2E1442	20	MA-31228	53
MA-1U	23	MA-22012-50	26	MA-22116-50	25	MA-22182-50	26	MA-30038	19	MA-31229	53
MA-2001	25	MA-22013	26	MA-22117	25	MA-22185	26	MA-30050	19	MA-31230	53
MA-20010	19	MA-22013-100	26	MA-22117-100	25	MA-22185-100	26	MA-30075	19	MA-31231	53
MA-2001S	13	MA-22013-25	26	MA-22117-25	25	MA-22185-25	26	MA-30105	24	MA-31318	24
MA-2002S	13	MA-22013-50	26	MA-22117-50	25	MA-22185-50	26	MA-30107	24	MA-31348	24
MA-2003S	13	MA-22014	26	MA-22120	25	MA-22186	26	MA-30110	24	MA-31405	24
MA-20050	19	MA-22014-100	26	MA-22120-100	25	MA-22186-100	26	MA-30132	37	MA-31407	24
MA-20075	19	MA-22014-25	26	MA-22120-25	25	MA-22186-25	26	MA-30155	24	MA-31410	24
MA-202	33	MA-22014-50	26	MA-22120-50	25	MA-22186-50	26	MA-30157	24	MA-317G	32
MA-202RB	33	MA-22031	26	MA-22122	25	MA-22187	26	MA-30158	24	MA-322-2	53
MA-20534	66	MA-22031-100	26	MA-22122-100	25	MA-22187-100	26	MA-301C	33	MA-322-3	53
MA-207013	24	MA-22031-25	26	MA-22122-25	25	MA-22187-25	26	MA-30200	37	MA-32831	27
MA-207030	24	MA-22031-50	26	MA-22122-50	25	MA-22187-50	26	MA-30275	24	MA-32832	27
MA-20SA	16	MA-22048	26	MA-22151	25	MA-22192	25	MA-302L	36	MA-32905	24
MA-21/2SA	16	MA-22048-100	26	MA-22151-100	25	MA-22192-100	25	MA-303	37	MA-32907	24
MA-213	17	MA-22048-25	26	MA-22151-25	25	MA-22192-25	25	MA-303/357RB	17	MA-32950	50
MA-2149L	36	MA-22048-50	26	MA-22151-50	25	MA-22192-50	25	MA-30301	17	MA-32N	33
MA-22002	26	MA-22049	26	MA-22152	25	MA-22263	25	MA-30303	17	MA-32SA	16
MA-22002-100	26	MA-22049-100	26	MA-22152-100	25	MA-22263-100	25	MA-30305	24	MA-33002	21

PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #
MA-33005	21	MA3L470	55	MA-4540	28	MA-4E5090A	18	MA4L570	55	MA5L340	55
MA-33008	21	MA3L480	55	MA-457005	24	MA-4E50A	18	MA4L580	55	MA5L350	55
MA-33350	66	MA-40038	19	MA-457007	24	MA-4E51	19	MA4L590	55	MA5L360	55
MA-33570	66	MA-40050	19	MA-457010	24	MA-4E57	19	MA4L600	55	MA5L370	55
MA-337	32	MA-40075	19	MA-457012	24	MA-4E58	19	MA4L610	55	MA5L380	55
MA-33905	24	MA-400RC30	49	MA-457015	24	MA-4E59A	20	MA4L620	55	MA5L390	55
MA-33907	24	MA-400RC50	49	MA-457020	24	MA-4E75	18	MA4L630	55	MA5L400	55
MA-33910	24	MA-4010	50	MA-46810	66	MA-4E7590	18	MA4L640	55	MA5L410	55
MA-33C	2	MA-401020	24	MA-48L	36	MA4L170	55	MA4L650	55	MA5L420	55
MA-340-5	37	MA-401025	24	MA-49051	50	MA4L180	55	MA4L660	55	MA5L430	55
MA-341212T	23	MA-4012W	18	MA-49052B	50	MA4L190	55	MA4L670	55	MA5L440	55
MA-3412BG	23	MA-4034W	18	MA-49052AUS	50	MA4L200	55	MA4L680	55	MA5L450	55
MA-3412CPLG	23	MA-4040	50	MA-49052EPC	50	MA4L210	55	MA4L690	55	MA5L460	55
MA-343412T	23	MA-406025	24	MA-49090	50	MA4L220	55	MA4L700	55	MA5L470	55
MA-3445EL	23	MA-407074	24	MA-49091	48	MA4L230	55	MA4L710	55	MA5L480	55
MA-3466T	23	MA-409010	24	MA-49092	48	MA4L240	55	MA4L720	55	MA5L490	55
MA-34790	66	MA-410005	24	MA-49116	49	MA4L250	55	MA-4LC20D	18	MA5L500	55
MA-3490EL	23	MA-410007	24	MA-49191	48	MA4L260	55	MA-4LC20E	18	MA5L510	55
MA-3490STEL	23	MA-410010	24	MA-49192	48	MA4L270	55	MA-4LC43D	18	MA5L520	55
MA-34CAP	23	MA-4101	28	MA-49193	48	MA4L280	55	MA-4LC43E	18	MA5L530	55
MA-34CPLG	23	MA-410101	24	MA-49310	30	MA4L290	55	MA-4LN	32	MA5L540	55
MA-34PLG	23	MA-4102	28	MA-493114	30	MA4L300	55	MA-4NMLT50	18	MA5L550	55
MA-34RUEL	14	MA-4104	28	MA-49316	30	MA4L310	55	MA-4NMLT75	18	MA5L560	55
MA-34T	23	MA-41300	66	MA-49317	30	MA4L320	55	MA-4NMLT9050	18	MA5L570	55
MA-34U	23	MA-41500	44	MA-49318	30	MA4L330	55	MA-4NMLT9075	18	MA5L580	55
MA-3600	46	MA-417025	24	MA-49320	31	MA4L340	55	MA-508L	36	MA5L590	55
MA-3612	46	MA-429025	24	MA-49324	31	MA4L350	55	MA-50ABF	13	MA5L600	55
MA-36732	36	MA-430G	32	MA-49330	31	MA4L360	55	MA-51	57	MA5L610	55
MA-36742	36	MA-43482	65	MA-49331	31	MA4L370	55	MA-5406BX	15	MA5L620	55
MA-38RUEL	14	MA-43484	65	MA-49332	31	MA4L380	55	MA-5408BX	15	MA5L630	55
MA-398	53	MA-43486	65	MA-49333	31	MA4L390	55	MA-5410BX	15	MA5L640	55
MA-398BL	53	MA-43488	65	MA-49334	31	MA4L400	55	MA-5412BX	15	MA5L650	55
MA3L310	55	MA-436074	24	MA-49858A	29	MA4L410	55	MA-5416BX	15	MA5L660	55
MA3L320	55	MA-437131	24	MA-4E104A	19	MA4L420	55	MA-5420BX	15	MA5L670	55
MA3L330	55	MA-437292	24	MA-4E110	19	MA4L430	55	MA-5428BX	15	MA5L680	55
MA3L340	55	MA-437339	24	MA-4E1101	19	MA4L440	55	MA-5432BX	15	MA5L690	55
MA3L350	55	MA-4401	28	MA-4E1102	19	MA4L450	55	MA-56188	15	MA5L700	55
MA3L360	55	MA-4402	28	MA-4E121	20	MA4L460	55	MA-563211	49	MA5L710	55
MA3L370	55	MA-4404	28	MA-4E122	20	MA4L470	55	MA-572A	14	MA5L720	55
MA3L380	55	MA-440G	32	MA-4E123	20	MA4L480	55	MA-5DT1	15	MA-5TCA	37
MA3L390	55	MA-4429	28	MA-4E124	20	MA4L490	55	MA-5DT112	15	MA60042	54
MA3L400	55	MA-4430	28	MA-4E21	20	MA4L500	55	MA-5DT114	15	MA60048	54
MA3L410	55	MA-4431	28	MA-4E22	20	MA4L510	55	MA-5GP	37	MA60049K	54
MA3L420	55	MA-4433	28	MA-4E23	20	MA4L520	55	MA5L290	55	MA-600CF	4
MA3L430	55	MA-447025	24	MA-4E24	20	MA4L530	55	MA5L300	55	MA-6012W	18
MA3L440	55	MA-447040	24	MA-4E421	19	MA4L540	55	MA5L310	55	MA60306K	54
MA3L450	55	MA-448007	24	MA-4E422	19	MA4L550	55	MA5L320	55	MA-6034W	18
MA3L460	55	MA-450007	24	MA-4E48	19	MA4L560	55	MA5L330	55	MA-60609	31

PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #
MA-60610	31	MA-70059P	30	MA-72023	28	MA-7608	60	MA-7665	61	MA-9311	32
MA-60613	31	MA-70090	31	MA-72066	31	MA-7611	60	MA-7667	61	MA-9312	32
MA-60613-25	31	MA-70091	31	MA-72314	28	MA-76110	54	MA-7668	61	MA-9314	32
MA-60616	31	MA-70093	31	MA-72433	33	MA-7612	61	MA-7669	61	MA-9316	32
MA-60616-25	31	MA-70094	31	MA-72435	33	MA-7613	61	MA-7670	60	MA-93482	65
MA-60743	28	MA-70095	31	MA-72437	33	MA-7614	61	MA-7671	60	MA-93484	65
MA-60954	28	MA-70097	31	MA-72439	33	MA-7615	61	MA-7672	60	MA-93486	65
MA-60A	13	MA-70098	31	MA-72744	28	MA-7617	61	MA-7673	60	MA-93488	65
MA-60AFF	13	MA-70099	31	MA-72815	24	MA-7618	61	MA-7674	61	MA-9355	32
MA-60F3	18	MA-70100	31	MA-72820	24	MA-7621	60	MA-77940	37	MA-9357	30
MA-60NF3	18	MA-70115	24	MA-72830	24	MA-7624	60	MA-7CR	32	MA-9358	30
MA-61/4SA	16	MA-70116	24	MA-7300	36	MA-7625	60	MA-7WR	32	MA-9601	35
MA61000	54	MA-70120	24	MA-73093	28	MA-7626	60	MA80105	54	MA-9602	35
MA61056	54	MA-70121	24	MA-73101	48	MA-7630	61	MA-8016	54	MA-9603	35
MA-61623	28	MA-70122	24	MA-73102	48	MA-7631	61	MA80293	54	MA-9604	35
MA-6182	44	MA-70130	24	MA-73103	48	MA-7632	61	MA-8032	54	MA-9605	35
MA-6183	44	MA-70132	24	MA-73104	48	MA-7633	61	MA-8101	28	MA-9606	35
MA-61834	28	MA-70133	24	MA-73105	48	MA-7634	61	MA-8201	28	MA-9607	35
MA-6184	44	MA-70-14JR	34	MA-73106	48	MA-7635	61	MA-8202A	28	MA-9608	35
MA-6185	44	MA-70151	24	MA-73107	48	MA-7636	61	MA-8203	28	MA-9609	35
MA-6186	44	MA-70152	24	MA-73108	48	MA-7637	61	MA-8205	28	MA-9610	35
MA-6187	44	MA-70153	24	MA-73109	48	MA-7638	61	MA-8206	29	MA-9611	35
MA-6188	44	MA-70204	28	MA-73110	48	MA-7639	61	MA-8207	29	MA-9612	35
MA-6192	44	MA-70221	24	MA-73111	48	MA-7640	61	MA-821	4	MA-9613	35
MA-6193	44	MA-70231	24	MA-73112	48	MA-7641	61	MA-823	4	MA-9614	35
MA-6194	44	MA-70232	24	MA-7321	29	MA-7642	61	MA-8250	50	MA-9615	35
MA-6195	44	MA-70250	34	MA-7339	8	MA-7643	61	MA-8400	33	MA-9616	35
MA-6196	44	MA-70251	34	MA-73532	36	MA-7644	61	MA-84002	51	MA-9617	35
MA-6197	44	MA-70252	34	MA-73815	24	MA-7645	61	MA-8401	33	MA-9618	35
MA-6198	44	MA-70253	34	MA-73820	24	MA-7646	61	MA-8408	33	MA-9619	35
MA-6202BX	15	MA-70254	34	MA-73830	24	MA-7647	61	MA-8410	46	MA-9620	35
MA-6203BX	15	MA-70255	34	MA-7409	8	MA-7648	60	MA-8411	46	MA-9621	35
MA-62044	28	MA-70256	34	MA-74213	28	MA-7649	60	MA-8412	46	MA-9622	35
MA-6204BX	15	MA-70257	34	MA-748325A	28	MA-7650	60	MA-8414	46	MA-9623	35
MA-6205BX	15	MA-70343	28	MA-7514	61	MA-7651	60	MA-8415	46	MA-9624	35
MA-6206BX	15	MA-70474	28	MA-7515	61	MA-7652	60	MA-8646L	36	MA-9625	35
MA-63223	28	MA-70615	24	MA-7518	61	MA-7653TR	60	MA-8646XL	36	MA-9626	35
MA-63493	28	MA-70620	24	MA-7519	17	MA-7654	60	MA-88057	30	MA-9627	35
MA-64N	33	MA-70630	24	MA-7525	61	MA-7655	60	MA-88081	30	MA-9628	35
MA-65093	28	MA-71115	24	MA-7599	61	MA-7656	60	MA-88091	30	MA-9629	35
MA-650B	41	MA-71120	24	MA-7600	60	MA-7657	60	MA-8R	32	MA-9630	35
MA-650N	41	MA-71130	24	MA-7601	60	MA-7658	60	MA-90303	48	MA-9631	35
MA-651	37	MA-71-132R	34	MA-7602	60	MA-7659	61	MA-90304	48	MA-9632	35
MA-67363	28	MA-71354	28	MA-7603	60	MA-7660	61	MA-90502	48	MA-9633	35
MA68004	54	MA-71493	28	MA-7604	60	MA-7661	61	MA-90503	48	MA-9634	35
MA-68150	18	MA-71801P	34	MA-7605	60	MA-7662	61	MA-9306	32	MA-9635	35
MA-69523	29	MA-71802P	34	MA-7606	60	MA-7663	61	MA-9308	32	MA-9636	35
MA-6LN	32	MA-71803P	34	MA-7607	60	MA-7664	61	MA-9310	32	MA-9637	35

PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #
MA-9637	35	MA-AGC-1	17	MA-ATC25	17	MA-BN345	23	MA-C6435O	53	MA-CSSC21-36	48
MA-9638	35	MA-AGC-1/2	17	MA-ATC3	17	MA-BN34512	23	MA-C6435R	53	MA-CSSC21-48	48
MA-9639	35	MA-AGC-1/32	17	MA-ATC30	17	MA-BN346	23	MA-C6435W	53	MA-CSSC21-60	48
MA-9640	35	MA-AGC-1/4	17	MA-ATC4	17	MA-BN34CL	23	MA-C6435Y	53	MA-CSSC21-72	48
MA-9641	35	MA-AGC-10	17	MA-ATC5	17	MA-BP112	23	MA-C6488	53	MA-CSSC54-12	48
MA-9642	35	MA-AGC-11/2	17	MA-ATC7.5	17	MA-BP118	23	MA-C950	53	MA-CSSC54-18	48
MA-9643	35	MA-AGC-11/4	17	MA-BC1	15	MA-BP1212	23	MA-C950-4	53	MA-CSSC54-24	48
MA-9644	35	MA-AGC-15	17	MA-BC112	15	MA-BP1218	23	MA-CCT11	40	MA-CSSC54-36	48
MA-9645	35	MA-AGC-2	17	MA-BC114	15	MA-BP1224	23	MA-CCT11-K	40	MA-CSSC54-48	48
MA-9646	35	MA-AGC-20	17	MA-BC12	15	MA-BP1230	23	MA-CCT14	40	MA-CSSC54-60	48
MA-9647	35	MA-AGC-21/2	17	MA-BC14	15	MA-BP1236	23	MA-CCT14-K	40	MA-CSSC54-72	48
MA-9648	35	MA-AGC-25	17	MA-BC2	15	MA-BP124	23	MA-CCT15	40	MA-CSSD54-12	48
MA-9649	35	MA-AGC-3	17	MA-BC34	15	MA-BP1248	23	MA-CCT15-K	40	MA-CSSD54-18	48
MA-9650	35	MA-AGC-3/4	17	MA-BC38	15	MA-BP1260	23	MA-CCT7	40	MA-CSSD54-24	48
MA-9651	35	MA-AGC-30	17	MA-BDHTR	13	MA-BP130	23	MA-CCT7-K	40	MA-CSSD54-36	48
MA-9652	35	MA-AGC-4	17	MA-BDIOT	13	MA-BP136	23	MA-CCW403	55	MA-CSSD54-48	48
MA-9653	35	MA-AGC-5	17	MA-BF1	52	MA-BP148	23	MA-CCW404	55	MA-CSSD54-60	48
MA-9654	35	MA-AGC-6	17	MA-BFC	52	MA-BP160	23	MA-CCW504	55	MA-CSSD54-72	48
MA-9655	35	MA-AGC-7	17	MA-BI4	51	MA-BP3412	23	MA-CCW505	55	MA-CT1	53
MA-9656	35	MA-AGC-8	17	MA-BI6	51	MA-BP3418	23	MA-CCW550	55	MA-CVT1	14
MA-9657	35	MA-AGC-9	17	MA-BN12	23	MA-BP3424	23	MA-CCW605	55	MA-CVT12	14
MA-9658	35	MA-AL9V	27	MA-BN12112	23	MA-BP3430	23	MA-CCW606	55	MA-CVT14	14
MA-9659	35	MA-ALAA	27	MA-BN1212	23	MA-BP3436	23	MA-CCW703	55	MA-CVT316	14
MA-9660	35	MA-ALAAA	27	MA-BN122	23	MA-BP3448	23	MA-CF1	15	MA-CVT34	14
MA-9661	35	MA-ALC	27	MA-BN12212	23	MA-BP3460	23	MA-CF-100	15	MA-CVT38	14
MA-9662	35	MA-ALD	27	MA-BN123	23	MA-BT1	15	MA-CF-50	15	MA-CVT58	14
MA-9663	35	MA-AN84A	6	MA-BN12312	23	MA-BT112	15	MA-CH100	50	MA-CVT78	14
MA-9664	35	MA-API32	27	MA-BN124	23	MA-BT114	15	MA-CH101	50	MA-CW300	55
MA-9665	35	MA-API181-12	27	MA-BN12412	23	MA-BT12	15	MA-CH101-1	50	MA-CW301	55
MA-99	57	MA-AP3172	27	MA-BN125	23	MA-BT2	15	MA-CH101-2	50	MA-CW401	55
MA-9LN	32	MA-AP890	33	MA-BN12512	23	MA-BT34	15	MA-CH101-3	50	MA-CW406	55
MA-A038	57	MA-AP8SD	30	MA-BN126	23	MA-BTG54VL	56	MA-CH102	50	MA-CW501	55
MA-A048	57	MA-AT12	14	MA-BN12CL	23	MA-BTG54VLW	56	MA-CH102-1	50	MA-CW502	55
MA-AA45E	34	MA-AT14	14	MA-BN13	23	MA-BTGDB	56	MA-CH102-2	50	MA-CW503	55
MA-AA46V	34	MA-AT14-5	14	MA-BN1312	23	MA-BTGDK	56	MA-CH103	50	MA-CW601	55
MA-AA47R	34	MA-AT18	14	MA-BN14	23	MA-BTGEK	56	MA-CH103-2	50	MA-CW650	55
MA-ABC-1	17	MA-AT18-5	14	MA-BN1412	23	MA-BTGK	56	MA-CH135	50	MA-CW655	55
MA-ABC-10	17	MA-AT316	14	MA-BN15	23	MA-BTGKM	56	MA-CIMK2	51	MA-CW665	55
MA-ABC-12	17	MA-AT316-5	14	MA-BN1512	23	MA-BTGRK	56	MA-CL1	30	MA-CSSC54-48	48
MA-ABC-15	17	MA-AT38	14	MA-BN16	23	MA-BTGUK2	56	MA-CO801	7	MA-CSSC54-60	48
MA-ABC-2	17	MA-AT38-5	14	MA-BN1CL	23	MA-BTGUM	56	MA-CP1	50	MA-CW701	55
MA-ABC-20	17	MA-AT516	14	MA-BN34112	23	MA-BTGUWM	56	MA-CP2	50	MA-CW801	55
MA-ABC-3	17	MA-AT58	14	MA-BN342	23	MA-C6408	53	MA-CP35-120	50	MA-CW802	55
MA-ABC-30	17	MA-AT716	14	MA-BN34212	23	MA-C6433	53	MA-CP35-240	50	MA-D100040	24
MA-ABC-5	17	MA-ATC10	17	MA-BN343	23	MA-C6435B	53	MA-CP52-120	50	MA-D102420	24
MA-ABC-6	17	MA-ATC15	17	MA-BN34312	23	MA-C6435BR	53	MA-CP52-240	50	MA-D102422	24
MA-ABC-8	17	MA-ATC2	17	MA-BN344	23	MA-C6435G	53	MA-CSSC21-18	48	MA-D115	62
MA-AC14	51	MA-ATC20	17	MA-BN34412	23	MA-C6435GN	53	MA-CSSC21-24	48	MA-D120	62

PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #
MA-D120	62	MA-E107	19	MA-E298-21	20	MA-E51	19	MA-ECNR40	16	MA-FNM12	17
MA-D130	62	MA-E10S	20	MA-E298-31	20	MA-E52PL	20	MA-ECNR45	16	MA-FNM15	17
MA-D130040	24	MA-E110	19	MA-E298-32	20	MA-E554	63	MA-ECNR5	16	MA-FNM20	17
MA-D140	62	MA-E110-1	19	MA-E298-41	20	MA-E560	63	MA-ECNR50	16	MA-FNM25	17
MA-D150	62	MA-E110-2	19	MA-E298-42	20	MA-E564	63	MA-ECNR6.25	16	MA-FNM30	17
MA-D160	62	MA-E110-3	19	MA-E298-43	20	MA-E57	19	MA-ECNR60	16	MA-FNM35	17
MA-D215	62	MA-E110-4	19	MA-E298-51	20	MA-E570	63	MA-ECNR70	16	MA-FNM40	17
MA-D220	62	MA-E110-5	19	MA-E298-52	20	MA-E571	63	MA-ECNR80	16	MA-FNQ10	17
MA-D230	62	MA-E121	20	MA-E298-53	20	MA-E572	63	MA-ECSR10	16	MA-FNQ12	17
MA-D240	62	MA-E122	20	MA-E298-54	20	MA-E573	63	MA-ECSR100	16	MA-FNQ15	17
MA-D250	62	MA-E123	20	MA-E2PL	19	MA-E574	63	MA-ECSR125	16	MA-FNQ20	17
MA-D260	62	MA-E124	20	MA-E2PL-1	19	MA-E575	63	MA-ECSR15	16	MA-FNQ25	17
MA-D300040	24	MA-E125	20	MA-E2PL25	19	MA-E58	19	MA-ECSR150	16	MA-FNQ30	17
MA-D304040	24	MA-E12590	18	MA-E30	20	MA-E584	63	MA-ECSR20	16	MA-FRNR1	16
MA-D309015	24	MA-E126	20	MA-E303	63	MA-E59	20	MA-ECSR200	16	MA-FRNR1.25	16
MA-D309020	24	MA-E127	20	MA-E303D	63	MA-E590	63	MA-ECSR25	16	MA-FRNR1.6	16
MA-D309030	24	MA-E128	20	MA-E304EXT	63	MA-E594	63	MA-ECSR30	16	MA-FRNR10	16
MA-D321040	24	MA-E129	20	MA-E350EXT	63	MA-E5S	20	MA-ECSR35	16	MA-FRNR100	16
MA-D323015	24	MA-E130	20	MA-E352	63	MA-E60PL	20	MA-ECSR40	16	MA-FRNR110	16
MA-D323020	24	MA-E144-1	20	MA-E353	63	MA-E61PL	20	MA-ECSR45	16	MA-FRNR12	16
MA-D323030	24	MA-E144-2	20	MA-E353D	63	MA-E65PL	20	MA-ECSR50	16	MA-FRNR125	16
MA-D400040	24	MA-E15090	18	MA-E363D	63	MA-E69PL	20	MA-ECSR60	16	MA-FRNR15	16
MA-DE904	57	MA-E1PL	19	MA-E37-1	20	MA-E75	18	MA-ECSR70	16	MA-FRNR150	16
MA-DM1	3	MA-E200	63	MA-E37-2	20	MA-E7590	18	MA-ECSR80	16	MA-FRNR175	16
MA-DMT123	11	MA-E200EXT	63	MA-E37-3	20	MA-E7S	20	MA-ECSR90	16	MA-FRNR2	16
MA-DMT123KIT	11	MA-E201	63	MA-E374	63	MA-E80	20	MA-EM3213A	8	MA-FRNR2.5	16
MA-DMT3	3	MA-E201-3/4	63	MA-E374D	63	MA-E81	20	MA-EM3215	8	MA-FRNR20	16
MA-DMTK	3	MA-E202	63	MA-E376	20	MA-E82	20	MA-ETP110	13	MA-FRNR200	16
MA-DMTKA	3	MA-E21	20	MA-E377	20	MA-E83	20	MA-EXT4	18	MA-FRNR225	16
MA-DMTK1	3	MA-E22	20	MA-E378	20	MA-E900	20	MA-F336	56	MA-FRNR25	16
MA-DMTL	3	MA-E23	20	MA-E379	20	MA-E901	20	MA-FA134	36	MA-FRNR3.2	16
MA-DMTL1	3	MA-E2390-2	20	MA-E380	20	MA-E902	20	MA-FB2	31	MA-FRNR30	16
MA-DMTP	3	MA-E24	20	MA-E3PL	19	MA-E903	20	MA-FD30A	18	MA-FRNR35	16
MA-DP244	57	MA-E25	20	MA-E3PL-1	19	MA-E904	20	MA-FD60A	18	MA-FRNR4	16
MA-DS4	51	MA-E251	63	MA-E3PL25	19	MA-E96-1CG	20	MA-FL13089A	27	MA-FRNR40	16
MA-DS6	51	MA-E252	63	MA-E42-1	19	MA-E96-2CG	20	MA-FL28L	27	MA-FRNR45	16
MA-DT1	15	MA-E253	63	MA-E42-2	19	MA-E96-4CG	20	MA-FL3A	27	MA-FRNR5	16
MA-DT112	15	MA-E254	63	MA-E42-3	19	MA-E96-5CG	20	MA-FL3A-12	27	MA-FRNR50	16
MA-DT114	15	MA-E255	63	MA-E42-4	19	MA-ECNR10	16	MA-FL3-M	27	MA-FRNR6.25	16
MA-DT12	15	MA-E26	20	MA-E42-5	19	MA-ECNR100	16	MA-FL37LED-12	27	MA-FRNR60	16
MA-DT2	15	MA-E27	20	MA-E48	19	MA-ECNR125	16	MA-FL460	27	MA-FRNR70	16
MA-DT34	15	MA-E272	63	MA-E4PL	19	MA-ECNR15	16	MA-FLS0325	57	MA-FRNR8	16
MA-E0PL	19	MA-E273	63	MA-E504	63	MA-ECNR20	16	MA-FLS0425	57	MA-FRNR80	16
MA-E100	18	MA-E273-100	19	MA-E508D	63	MA-ECNR200	16	MA-FLS0450	57	MA-FRNR90	16
MA-E10090	18	MA-E27325	19	MA-E508T	63	MA-ECNR25	16	MA-FM50	54	MA-FRSR1	16
MA-E104A	19	MA-E274	62	MA-E509	63	MA-ECNR3.2	16	MA-FM55	54	MA-FRSR1.25	16
MA-E105	19	MA-E28	20	MA-E509A	18	MA-ECNR30	16	MA-FM554A	54	MA-FRSR1.6	16
MA-E106	19	MA-E29	20	MA-E50A	18	MA-ECNR35	16	MA-FNM10	17	MA-FRSR10	16

PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #
MA-FRSR100	16	MA-HRFT1	13	MALS-125E1	58	MA-MFC3	31	MA-NON70	16	MA-OV24-3	27
MA-FRSR110	16	MA-HS4B	56	MALS-135A	58	MA-MGT1	35	MA-NON80	16	MA-OVN1	13
MA-FRSR12	16	MA-HS4W	56	MALS-135A-P	58	MA-MGT2	35	MA-NS1	30	MA-P4012W	18
MA-FRSR125	16	MA-HSB4B	56	MALS-160E1	58	MA-MHG-2	5	MA-NS1000	30	MA-P4034W	18
MA-FRSR15	16	MA-HSB4W	56	MALS-190A	58	MAMJ-120	59	MA-NS12	30	MA-P6012W	18
MA-FRSR150	16	MA-HS50	50	MALS-190A-P	58	MAMJ-120-P	59	MA-NS14	30	MA-P6034W	18
MA-FRSR175	16	MA-HT1	52	MALS-210E1	58	MAMJ-40	59	MA-NS16	30	MA-PAK-1	41
MA-FRSR2	16	MA-HT64	52	MALS-210E2	58	MAMJ-40-P	59	MA-NS18	30	MA-PAK-2	41
MA-FRSR2.5	16	MA-HTSS-R	52	MALS-240A	58	MAMJ-70	59	MA-NS2	30	MA-PAK-3	41
MA-FRSR20	16	MA-HU1	51	MALS-280E1	58	MAMJ-70-P	59	MA-NS2000	30	MA-PDT392B	12
MA-FRSR200	16	MA-HWA02	15	MALS-280E2	58	MAMJ-90	59	MA-NS22	30	MA-PG1	55
MA-FRSR225	16	MA-HWA05	15	MALS-320A	58	MAMJ-90-P	59	MA-NS24	30	MA-PH100	15
MA-FRSR25	16	MA-HWG02	15	MALS-360E2	58	MA-MMD3E	8	MA-NS26	30	MA-PH50	15
MA-FRSR3.2	16	MA-HWG05	15	MALS-410A	58	MA-MSA4100	57	MA-NS28	30	MAPLB1	27
MA-FRSR30	16	MA-IC13	29	MALS-50E1	58	MA-MT53	33	MA-NS32	30	MAPLP-1000	59
MA-FRSR35	16	MA-IC15	29	MALS-540E2	58	MA-MT62	33	MA-NS36	30	MAPLP-1290E1	59
MA-FRSR4	16	MA-IM12	9	MALS-55A	58	MA-MY69	2	MA-NS40	30	MAPLP-1500	59
MA-FRSR40	16	MA-IM24	9	MALS-55A-P	58	MA-N12	51	MA-NSPD1	30	MAPLP-1720E2	59
MA-FRSR45	16	MA-IM30	9	MALS-95E1	58	MA-N14	51	MA-NW110	15	MAPLP-2000	59
MA-FRSR5	16	MA-IMK1	51	MA-LT125	18	MA-N38	51	MA-NW1126	15	MAPLP-2150E2	59
MA-FRSR50	16	MA-IRT203B	10	MA-LT150	18	MA-N516	51	MA-NW1126-C	15	MAPLP-2500	59
MA-FRSR6.25	16	MA-J100	50	MA-MC123	37	MA-NAT18-5	14	MA-NW1128	15	MAPLP-2580E3	59
MA-FRSR60	16	MA-J1500	15	MA-MC22C	19	MA-NAT316	14	MA-NW1128-C	15	MAPLP-3000	59
MA-FRSR70	16	MA-J2000	15	MA-MC23C	19	MA-NAT316-5	14	MA-NW11410	15	MAPLP-380	59
MA-FRSR8	16	MA-J3000	15	MA-MC42C	19	MA-NDK10	32	MA-NW1146	15	MAPLP-430E	59
MA-FRSR80	16	MA-J4000	15	MA-MC43C	19	MA-NFD60A	18	MA-NW1146-C	15	MAPLP-500	59
MA-FRSR90	16	MA-K1	15	MA-MC450	57	MA-NG2000-B	8	MA-NW1148	15	MAPLP-600	59
MA-FT1	53	MA-K112	15	MA-MDL-1	17	MA-NMLT50	18	MA-NW1148-C	15	MAPLP-640E	59
MA-FWP7	32	MA-K114	15	MA-MDL-1/2	17	MA-NMLT75	18	MA-NW1210	15	MAPLP-750	59
MA-FWP7-MET	32	MA-K12	15	MA-MDL-1/4	17	MA-NMLT9050	18	MA-NW124	15	MAPLP-860E	59
MA-GF1	15	MA-K2	15	MA-MDL-10	17	MA-NMLT9075	18	MA-NW124-C	15	MA-PLT11	40
MA-GF-100	15	MA-K212	15	MA-MDL-11/4	17	MA-NON1	16	MA-NW126	15	MA-PLT11-K	40
MA-GF-50	15	MA-K3	15	MA-MDL-15	17	MA-NON10	16	MA-NW126-C	15	MA-PLT14	40
MA-GH25	15	MA-K34	15	MA-MDL-2	17	MA-NON100	16	MA-NW128	15	MA-PLT14-K	40
MA-GH50	15	MA-KC710	33	MA-MDL-20	17	MA-NON15	16	MA-NW128-C	15	MA-PLT4	40
MA-HDT1	14	MA-KN74HD	33	MA-MDL2-1/2	17	MA-NON150	16	MA-NW14	15	MA-PLT4-K	40
MA-HDT12	14	MA-KVS007	33	MA-MDL-25	17	MA-NON175	16	MA-NW14-C	15	MA-PLT7	40
MA-HDT14	14	MA-KVS008	33	MA-MDL-3	17	MA-NON20	16	MA-NW16	15	MA-PLT7-K	40
MA-HDT316	14	MA-L42	34	MA-MDL-3.2	17	MA-NON200	16	MA-NW16-C	15	MA-PS120	12
MA-HDT34	14	MA-L42RB	34	MA-MDL-3/4	17	MA-NON25	16	MA-NW18	15	MA-PS220	12
MA-HDT38	14	MA-L50	34	MA-MDL-30	17	MA-NON3	16	MA-NW18-C	15	MA-PT110C	12
MA-HDT58	14	MA-L50RB	34	MA-MDL-4	17	MA-NON30	16	MA-NW3410	15	MA-PT134160	12
MA-HDT78	14	MA-LC20D	18	MA-MDL-5	17	MA-NON35	16	MA-NW344	15	MA-PT134220	12
MA-HML7	27	MA-LC20E	18	MA-MDL-6	17	MA-NON40	16	MA-NW344-C	15	MA-PT138160	12
MA-HP3	18	MA-LC43D	18	MA-MDL-7	17	MA-NON45	16	MA-NW346	15	MA-PT138220	12
MA-HP3-2P	18	MA-LC43E	18	MA-MDL-8	17	MA-NON50	16	MA-NW346-C	15	MA-PT14	14
MA-HP6	18	MALS-105A	58	MA-MFC1	31	MA-NON6	16	MA-NW348	15	MA-PT160	12
MA-HP6-2P	18	MALS-105A-P	58	MA-MFC2	31	MA-NON60	16	MA-NW348-C	15	MA-PT160B	12

PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #
MA-PT220	12	MA-RT900A	11	MA-SDF1	49	MA-SR402B-50	49	MA-SVHUW4	57	MA-THHNS-14B	47
MA-PT220B	12	MA-RVHAB4	56	MASF-105	58	MA-SR404A	49	MA-SVOM18	21	MA-THHNS-14G	47
MA-PT38	14	MA-RVHAW4	56	MASF-105-P	58	MA-SR404A-50	49	MA-SW70C-6	66	MA-THHNS-14R	47
MA-PT550	12	MA-RVHUB4	56	MASF-135	58	MA-SR406A	49	MA-T1005	23	MA-THHNS-14W	47
MA-PT70C	12	MA-RVHUW4	56	MASF-135-P	58	MA-SR406A-50	49	MA-T1007	23	MA-TL15A	16
MA-PVC27	34	MA-S10A	16	MASF-175	58	MA-SR407C	49	MA-T1010	23	MA-TL20A	16
MA-PVC42	34	MA-S11/4A	16	MASF-175-P	58	MA-SR407C-50	49	MA-T1057	23	MA-TL25A	16
MA-Q115	62	MA-S12A	16	MASF-235	58	MA-SR408A	49	MA-T10A	16	MA-TL30A	16
MA-Q120	62	MA-S14	51	MASF-235-P	58	MA-SR408A-50	49	MA-T11/4A	16	MATM-100	59
MA-Q125	62	MA-S144	54	MASF-305	58	MA-SR409A	49	MA-T12A	16	MATM-100-P	59
MA-Q130	62	MA-S15A	16	MASF-305-P	58	MA-SR409A-50	49	MA-T15A	16	MATM-135	59
MA-Q140	62	MA-S16A	16	MA-SH1500	15	MA-SR410A	49	MA-T16A	16	MATM-135-P	59
MA-Q150	62	MA-S1A	16	MA-SH2000	15	MA-SR410A-50	49	MA-T1A	16	MATM-180	59
MA-Q160	62	MA-S20A	16	MA-SH3000	15	MA-SR417A	49	MA-T20A	16	MATM-180-P	59
MA-Q2100	62	MA-S21/2A	16	MA-SH4000	15	MA-SR417A-50	49	MA-T21/2A	16	MATM-250	59
MA-Q2125	62	MA-S25	34	MA-SHCFC123	49	MA-SR421A	49	MA-T25A	16	MATM-250-P	59
MA-Q215	62	MA-S25A	16	MA-SHCFC123-50	49	MA-SR421A-50	49	MA-T2A	16	MA-TN5044	26
MA-Q220	62	MA-S25RB	34	MA-SL15A	16	MA-SR422B	49	MA-T30A	16	MA-TN5044-100	26
MA-Q225	62	MA-S2A	16	MA-SL20A	16	MA-SR422B-50	49	MA-T32A	16	MA-TN5044-25	26
MA-Q230	62	MA-S30	54	MA-SL25A	16	MA-SR422D	49	MA-T4A	16	MA-TN5044-50	26
MA-Q240	62	MA-S3003	8	MA-SL30A	16	MA-SR422D-50	49	MA-T5A	16	MA-TN5066	26
MA-Q250	62	MA-S31A	16	MA-SM6	9	MA-SR438A	49	MA-T61/4A	16	MA-TN5066-100	26
MA-Q260	62	MA-S32A	16	MA-SM7	9	MA-SR438A-50	49	MA-T7A	16	MA-TN5066-25	26
MA-Q270	62	MA-S38	51	MA-SM8	9	MA-SR500	49	MA-T8A	16	MA-TN5066-50	26
MA-Q280	62	MA-S4A	16	MA-SMO1	49	MA-SR500-50	49	MA-THHN10B	47	MA-TN5088	26
MA-Q290	62	MA-S5A	16	MA-SMO1-50	49	MA-SR502	49	MA-THHN10G	47	MA-TN5088-100	26
MA-QP400	32	MA-S60	54	MA-SNAT316-5	14	MA-SR502-50	49	MA-THHN10R	47	MA-TN5088-25	26
MA-QP400-12	32	MA-S61/4A	16	MA-SND80	6	MA-SR507	49	MA-THHN10W	47	MA-TN5088-50	26
MA-QP400-G	32	MA-S6A	16	MA-SOC19	32	MA-SR507-50	49	MA-THHN12B	47	MA-TN51212	26
MA-QT1515	62	MA-S8A	16	MA-SOC19-MET	32	MA-SRECT	49	MA-THHN12G	47	MA-TN51212-100	26
MA-QT1520	62	MA-SAB1	49	MA-SPA1	49	MA-SRECT-50	49	MA-THHN12R	47	MA-TN51212-25	26
MA-QT2020	62	MA-SAB1-50	49	MA-SPA1-50	49	MA-SRT14-5	14	MA-THHN12W	47	MA-TN51212-50	26
MA-QT2030	62	MA-SC10	17	MA-SPO1	49	MA-SRT18-5	14	MA-THHN14B	47	MA-TR12	51
MA-QT3030	62	MA-SC1200CF	37	MA-SPO1-50	49	MA-SRT316-5	14	MA-THHN14G	47	MA-TR14	51
MA-REF401C	50	MA-SC15	17	MA-SR11	49	MA-SRU	17	MA-THHN14R	47	MA-TR38	51
MA-REF401F	50	MA-SC150CF	37	MA-SR11-50	49	MA-SRY	17	MA-THHN14W	47	MA-TR516	51
MA-REF700	50	MA-SC20	17	MA-SR113	49	MA-SSC-CK	52	MA-THHN8B	47	MA-TX100	38
MA-RRWBK	32	MA-SC25	17	MA-SR113-50	49	MA-SSG-CK	52	MA-THHN8G	47	MA-TX202	38
MA-RS300	54	MA-SC30	17	MA-SR114	49	MA-SSU	17	MA-THHN8R	47	MA-TX205	38
MA-RT1	13	MA-SC35	17	MA-SR114-50	49	MA-SSW	17	MA-THHN8W	47	MA-TX402	38
MA-RT330	11	MA-SC40	17	MA-SR12	49	MA-SSW-CK	52	MA-THHNS-10B	47	MA-TX403	38
MA-RT335	11	MA-SC45	17	MA-SR12-50	49	MA-SSX	17	MA-THHNS-10G	47	MA-TX404	38
MA-RT340	11	MA-SC50	17	MA-SR134A	49	MA-SSY	17	MA-THHNS-10R	47	MA-TX405	38
MA-RT340LS	11	MA-SC5000CF	37	MA-SR134A-50	49	MA-ST200	12	MA-THHNS-10W	47	MA-TX406	38
MA-RT343	11	MA-SC60	17	MA-SR22	49	MA-SUT45	13	MA-THHNS-12B	47	MA-TX407	38
MA-RT8100	13	MA-SC600CF	37	MA-SR22-50	49	MA-SVHAB4	57	MA-THHNS-12G	47	MA-TX482	38
MA-RT8101	13	MA-SDB2	30	MA-SR402A-50	49	MA-SVHAW4	57	MA-THHNS-12R	47	MA-TX501	38
MA-RT818	12	MA-SDB8	30	MA-SR402B	49	MA-SVHUB4	57	MA-THHNS-12W	47	MA-TX502	38

PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #	PART #	PG #
MA-TX775	38	MA-W14	51	MA-WR8	31	MA-XP5	18	QO260	62	VE118OD	39
MA-TX779	38	MA-W38	51	MA-WR10	31	MA-XP6	18	T 002	49	VE12OD	39
MA-UO65P010	18	MA-W3A	16	MA-WR12	31	MA-XP8	18	T 003	49	VE138OD	39
MA-UBGBB	57	MA-W455	14	MA-WR681012	31	QO115	62	T 018	49	VE14OD	39
MA-UBGBW	57	MA-W516	51	MA-WSFD30A	18	QO120	62	T 019	49	VE158OD	39
MA-UVFL15-1	27	MA-W5A	16	MA-WSFD60A	18	QO130	62	T 0210	49	VE218OD	39
MA-V1	21	MA-W6A	16	MA-WSNFD60A	18	QO140	62	T 0220	49	VE258OD	39
MA-V2	21	MA-W8A	16	MA-WTJ1	41	QO150	62	T 0230	49	VE318OD	39
MA-VID-1	9	MA-WHP22	50	MA-WU17	51	QO160	62	T 0240	49	VE34OD	39
MA-VID-2	9	MA-WHP24	50	MA-WU21	51	QO215	62	T 027	49	VE358OD	39
MA-VIMK2	51	MA-WHP26	50	MAXICAP3R	48	QO220	62	T 032	49	VE38OD	39
MA-VIMK3	51	MA-WHP28	50	MAXICAP5R	48	QO230	62	T 076	49	VE418OD	39
MA-VTC1	30	MA-WHP32	50	MAXICAP7R	48	QO240	62	T 080	49	VE58OD	39
MA-W10A	16	MA-WP1	50	MA-XL80-25	66	QO250	62	T 085	49	VE78OD	39
MA-W12	51	MA-WR6	31	MA-XL80-5	66						

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USE EXTREME CARE WHEN CHECKING ELECTRICAL CIRCUITS TO AVOID ELECTRICAL SHOCK. DO NOT APPLY MORE THAN THE RATED VOLTAGE AS MARKED ON THE PRODUCT. USE PROPER PROTECTIVE EQUIPMENT AS REQUIRED. ANYONE USING THIS PRODUCT SHOULD BE KNOWLEDGEABLE AND TRAINED ABOUT THE RISKS INVOLVED WITH MEASURING ELECTRICAL CIRCUITS. OUR METERS ARE DESIGNED FOR TRADE PROFESSIONALS WHO ARE FAMILIAR WITH THE REQUIRED SAFETY PROCEDURES AND THE HAZARDS OF THEIR TRADE.



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