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GENERAL SAFETY INSTRUCTIONS

Only qualified service personnel should operate this machine. Most states, countries, etc... may require the user to be licensed. Please check with your local government agency.

DANGER – This unit’s recovery tank contains liquid refrigerant. Overfilling of a recovery tank may cause a violent explosion resulting in severe injury or even death. Do not disable the overfill safety features. Always make sure the correct tank is on the scale.

DANGER – Only use the specified recovery tanks provided with this unit. See your distributor for replacement tanks.

DANGER – Avoid breathing refrigerant vapors and lubricant vapor or mist. Breathing high concentration levels may cause heart arrhythmia, loss of consciousness, or even cause suffocation.

DANGER – Electrical shock hazard!!!! Always disconnect power source when servicing this equipment.

DANGER – DO NOT USE COMPRESSED AIR TO PRESSURE TEST OR LEAK TEST THE MX UNIT OR VEHICLE AIR CONDITIONING SYSTEM. Mixtures of air and refrigerant are combustible at elevated pressures. These mixtures are potentially dangerous and may result in fire or explosion causing personal injury or property damage.

CAUTION – All hoses may contain liquid refrigerant under pressure. Contact with refrigerant may cause frostbite or other related injuries. Wear proper personal protective equipment such as safety goggles and gloves. When disconnecting any hose, please use extreme caution.

CAUTION – Exposure to refrigerant vapors may irritate eyes, nose, throat, and skin. Please read the manufacturers Material Safety Data Sheet for further safety information on refrigerants and lubricants.

CAUTION – To reduce the risk of fire, avoid the use of extension cords thinner than NO. 16 awg. (1,5mm2). The following table references extension cord wire size vs. maximum length:

<table>
<thead>
<tr>
<th>EXTENSION CORD (Imperial)</th>
<th>EXTENSION CORD (Metric)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gauge (awg)</td>
<td>Length (Ft)</td>
</tr>
<tr>
<td>16</td>
<td>10</td>
</tr>
<tr>
<td>14</td>
<td>20</td>
</tr>
<tr>
<td>12</td>
<td>25</td>
</tr>
</tbody>
</table>

CAUTION – Do not use this equipment in the vicinity of spilled or open containers of gasoline or other flammable substances. Make certain that all safety devices are functioning properly before operating the equipment.

CAUTION – This equipment should be used in locations with mechanical ventilation that provides as least 4 air changes per hour.

CAUTION – RISK OF INJURY, the equipment should only be operated by certified personnel.

CAUTION – Use only CPS certified hose assemblies on this unit. The hose assemblies are made to proper length, contain shut-offs where required and have direct affect on the proper operation of this equipment.

CAUTION – R-1234yf is a Class III highly flammable refrigerant. Use in well ventilated areas. Minimize leakage from the unit. Periodically check MX1234 machine for leaks.

High Pressure Alert

1. The MX1234 will alert the user should a high pressure condition exist on the outlet side of the compressor.
2. When such a condition is detected, the compressor will turn OFF and won’t restart until the high pressure condition is remedied.
3. If this occurs, check to ensure that Tank Valves and Hose Ball Valves running to the tank and filters are OPEN.
4. If all valves are open, contact CPS Technical Support to determine the cause of the alarm.
1. The MX1234 Series’ 30lb internal storage tank is designed to contain a maximum of 20.96 Lbs (9.52 Kg) of refrigerant.
2. If this amount is exceeded, the user will be alerted and system operations will be halted.
3. Before normal operation can continue, the overfill condition must be remedied by moving refrigerant from the tank to another storage tank or into a vehicle AC system. The charge function may be used to transfer internally stored refrigerant to an external storage facility.

PRODUCT REGISTRATION

To register this MX1234 Refrigerant Management Machine for the MAXXAIR™ 1-2-3 product warranty, please visit www.cpsproducts.com/hvac-warranty-registration/. Please contact us, if you have any technical issues during registration of this machine.

You may also register this MX1234 Machine by using the touch screen (See Page 21).

AGENCY APPROVALS, STANDARDS, PATENTS

CSA C22.2 120 DEI Issued: 2013/03/01 Ed: 4 Refrigeration Equipment (R2018)

• This machine is covered under US Patent 8,082,750.

OVERVIEW

This “MX” Series Refrigerant Management Center is for use with R-1234yf refrigerant and has been designed for automotive technicians to easily Recover, Recycle, Evacuate and Recharge air conditioning systems in passenger vehicles and light trucks. It features a seven inch, color touch screen display, a 30 Lb refrigerant tank, an oil-less compressor and motorized ball valves.
### Optional Accessories
- **Heater Blanket (#CCXHB)** – During colder weather, this CPS 120V AC accessory can be applied to the refrigerant tank to speed up charging, which eliminates the need to run a vehicle’s AC system.
- **TACI100 CarSmart AC Inspector** – Includes 2 probes for measuring or data logging temperature, humidity, dew point, etc., inside of, or around a vehicle.
- **50 Lb Refrigerant Tank** – Available from CPS as individual tanks, or in pallet quantities (see page 8).
- **Dust Cover (#MXXC)** – Fits any CPS MX series machine.

### Not Included (Shop Must Purchase)
- R-1234yf Refrigerant
- Refrigerant oil/dye injection system.

### Features/Benefits

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>7” Color Display, With Touch-Screen Icon</td>
<td>User-friendly icons allow fast, easy selection of Recovery, Evacuation, Charge, Full Cycle and Tank Refill functions, or Setup and Maintenance Menus.</td>
</tr>
<tr>
<td>Vehicle A/C System Database</td>
<td>MX machines include a database of refrigerants and refrigerant oil for most vehicles sold in North America since 1994.</td>
</tr>
<tr>
<td>Low and High Side “Barrier” Service Hoses &amp; Couplings</td>
<td>The included barrier hoses and couplings minimize the loss of expensive refrigerant, which can also harm the atmosphere.</td>
</tr>
<tr>
<td>Filter/Dryer</td>
<td>The installed filter-drier filters the R-1234yf refrigerant inside the vehicle’s A/C system, and absorbs any system contaminants which can reduce compressor life.</td>
</tr>
<tr>
<td>Motorized Ball Valves</td>
<td>Automatically open or close for a selected charge, recovery or evacuation routine.</td>
</tr>
<tr>
<td>Temperature Probe Accessory</td>
<td>MX Machines include a corded probe (#TMX2P) for measuring temperature in AC vents.</td>
</tr>
<tr>
<td>1 Lb (454 Gm) Check Weight</td>
<td>For accurately calibrating the installed refrigerant charging scale.</td>
</tr>
<tr>
<td>30 Lb Refrigerant Tank</td>
<td>The DOT certified tank is designed to safely recover, charge and transport refrigerant used with MX machine. Available in single cylinders or in pallet quantities (see below).</td>
</tr>
<tr>
<td>Bluetooth Low Energy (BLE) Capable</td>
<td>MX Series machines can be used with the CPS “CarSmart AC Inspector” wireless accessory (#TACI100) to log temperature, humidity, dew point and other diagnostic data inside of, or around a vehicle.</td>
</tr>
<tr>
<td>Wi-Fi Capable</td>
<td>MX Series Machines can be connected to other Wi-Fi devices or printers and job reports can be e-mailed directly from the machine.</td>
</tr>
<tr>
<td>MAXXAIR™ 1-2-3 Warranty</td>
<td>One Year Warranty (includes parts and labor), Two Year Parts Warranty, Three Year Compressor Warranty.</td>
</tr>
</tbody>
</table>
**SPECIFICATIONS**

### MX1234 OVERALL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>115V 60Hz</td>
</tr>
<tr>
<td>Compressor</td>
<td>2/3 HP Twin Cylinder Oil-less</td>
</tr>
<tr>
<td>Gauges</td>
<td>3.5&quot; Low side, 30 in/Hg to 250 psi; High Side, 0 to 600 psi</td>
</tr>
<tr>
<td>Hoses</td>
<td>10 Ft. (3.0 m), Barrier Type</td>
</tr>
<tr>
<td>Refrigerant</td>
<td>For Use With R-1234yf Only</td>
</tr>
<tr>
<td>ASHRAE Refrigerant Code</td>
<td>A1</td>
</tr>
<tr>
<td>Maximum Recovery Rate</td>
<td>Up To 1 Lb (0.453 kg) per minute</td>
</tr>
<tr>
<td>Storage Tank</td>
<td>1 x 30 lb DOT tank (specifications on page 8)</td>
</tr>
<tr>
<td>Display</td>
<td>7&quot; Touch Screen with 256 color graphical display</td>
</tr>
<tr>
<td>Construction</td>
<td>Sheet metal frame with molded plastic panels. 1 piece handlebar, 4&quot; front casters and 10&quot; foam-filled rear tires for exceptional maneuverability</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>50°F to 122°F (10°C to 50°C)</td>
</tr>
<tr>
<td>Operating Humidity Range</td>
<td>0% to 95% (Non-Condensing)</td>
</tr>
<tr>
<td>Dimensions (H x W x D)</td>
<td>43.6&quot; x 22.6&quot; x 28.9&quot; (1.1 x 0.57 x 0.28 m)</td>
</tr>
<tr>
<td>Weight (Without Packaging)</td>
<td>Gross Weight: 208 Lbs (With Packaging)</td>
</tr>
<tr>
<td>Warranty (Maxxair™ 1-2-3)</td>
<td>See Page 49</td>
</tr>
</tbody>
</table>

### INSTALLED VACUUM PUMP SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stage</td>
<td>2</td>
</tr>
<tr>
<td>Maximum Free Air Displacement</td>
<td>2 CFM at 60 Hz / 48l/m @ 50 Hz</td>
</tr>
<tr>
<td>Motor Size (HP), RPM @ 50/60Hz</td>
<td>1/3 HP (@1440 RPM/50 Hz Or 1720 RPM/60 Hz)</td>
</tr>
<tr>
<td>Voltage, Watts, Amps</td>
<td>110~120VAC Or 220VAC @50/60 Hz</td>
</tr>
<tr>
<td>Ignition Proof Construction</td>
<td>Meets ANSI 12.12.1</td>
</tr>
<tr>
<td>Ultimate Vacuum</td>
<td>10 Microns</td>
</tr>
<tr>
<td>Refrigerant Class</td>
<td>A1, A2</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>32°F to 125°F (0°C to 52°C)</td>
</tr>
<tr>
<td>Storage Temperature Range</td>
<td>32 F to 104 F (0 C to 40 C)</td>
</tr>
<tr>
<td>Pro-Set® Vacuum Pump Oil Capacity</td>
<td>11 oz (330 ml)</td>
</tr>
<tr>
<td>Intake Fittings</td>
<td>1/4&quot; &amp; 3/8&quot; SAE Male, ACME 1/2&quot;</td>
</tr>
<tr>
<td>High Side Gauge (Analog)</td>
<td>0 – 550 psi, (38 bar ~ bar), 3792 – kPa</td>
</tr>
<tr>
<td>Low Side Gauge (Analog)</td>
<td>0 – 350 psi, (0 ~ 24 bar), 0 ~ 2400 kPa</td>
</tr>
<tr>
<td>Motor Thermally Protected</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### INSTALLED REFRIGERANT SCALE SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tare (Empty) Weight Mode</td>
<td>Yes</td>
</tr>
<tr>
<td>Units (Weight) Readout</td>
<td>lb &amp; oz, or kg &amp; gm</td>
</tr>
<tr>
<td>Weight Accuracy</td>
<td>0.015% of Reading [or ± 0.25 oz (10 g) whichever &gt;]</td>
</tr>
<tr>
<td>Display Resolution (Increments)</td>
<td>0.25 Oz (10 g)</td>
</tr>
<tr>
<td>Platform Dimensions</td>
<td>8.75&quot; x 8.75&quot; (22.3 x 22.3 cm)</td>
</tr>
<tr>
<td>Overload Protection</td>
<td>Mechanical (Internal Overload Stop)</td>
</tr>
<tr>
<td>Calibrated To NIST Standards</td>
<td>Yes</td>
</tr>
</tbody>
</table>
CPS REFRIGERANT TANK SPECIFICATIONS (Industry Standard)

<table>
<thead>
<tr>
<th></th>
<th>Weight Of Empty Tank</th>
<th>Tank Water Capacity</th>
<th>Max. Refrigerant Weight (80% Of Water Capacity)</th>
<th>Total Weight (Tank &amp; Refrigerant)</th>
<th>Tank Foot Ring Diameter</th>
<th>Tank Outside Diameter</th>
<th>Tank Height</th>
<th>Max. Pressure Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>lb</td>
<td>kg</td>
<td>lb</td>
<td>kg</td>
<td>lb</td>
<td>kg</td>
<td>in</td>
<td>mm</td>
</tr>
<tr>
<td>CRX430T 30 Lb (13.60 kg) Included</td>
<td>17.5</td>
<td>7.9</td>
<td>26.2*</td>
<td>11.9*</td>
<td>20.96*</td>
<td>9.52*</td>
<td>38.46</td>
<td>17.42</td>
</tr>
<tr>
<td>Optional Accessory: CRX400T 50 Lb (22.7 kg)</td>
<td>28.3</td>
<td>12.8</td>
<td>47.4</td>
<td>21.5</td>
<td>37.92*</td>
<td>17.2*</td>
<td>66.22</td>
<td>30.0</td>
</tr>
</tbody>
</table>

*Maximum weight of refrigerant that should be recovered

REFRIGERANT RECOVERY TANKS
- DOT Certified for refrigerant storage
- Refrigerant compatible sealant used on all mechanical connection points
- Auxiliary port for optional overfill sensor
- Liquid and Vapor UL listed
- Y-valve powder coated for maximum rust protection
- 1/4” SAE Male fittings

REFRIGERANT CYLINDER HEATER BLANKET (OPTIONAL ACCESSORY)

<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
<th>AR27XHB115-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage (Hz)</td>
<td>120 VAC (50/60 Hz)</td>
</tr>
<tr>
<td>Watts</td>
<td>340 W</td>
</tr>
<tr>
<td>Amps</td>
<td>2.8</td>
</tr>
<tr>
<td>For Cylinder Sizes</td>
<td>From 8” (20 cm) to 14” (35 cm) Diameter Tanks</td>
</tr>
<tr>
<td>Control (Overheat Protection)</td>
<td>Automatic Thermal Cutoff (Encapsulated Thermostat)</td>
</tr>
<tr>
<td>Minimum Surface Temperature Of Tank</td>
<td>115°F (46°C)</td>
</tr>
<tr>
<td>Maximum Thermostat Temperature</td>
<td>130°F (55°C)</td>
</tr>
<tr>
<td>Power Cord Length</td>
<td>20” (0.50 m)</td>
</tr>
<tr>
<td>Adjustable Velcro Strap Max Length</td>
<td>19” (0.48 m)</td>
</tr>
<tr>
<td>Heater Blanket Width</td>
<td>3” (76 mm)</td>
</tr>
<tr>
<td>Heater Blanket Length</td>
<td>24” (.60 m)</td>
</tr>
<tr>
<td>Heater Blanket Color</td>
<td>Dark Orange</td>
</tr>
<tr>
<td>Electrical Connection Type</td>
<td>IEC320 C15 Female Connector</td>
</tr>
</tbody>
</table>

SHOWN: HEATER BLANKET APPLIED TO TANK
**MACHINE LAYOUT**

**FRONT VIEW**

![Front View of the Machine](image1)

**CONTROL PANEL**

- **3.5” High Side Gauge (Analog)**
- **3.5” Low Side Gauge (Analog)**
- **Storage Tray For Small Tools Or Fittings**
- **Machine Model #**
- **7” Color Touch Screen LCD Display**
- **RCA Port (For Temperature Probe #TMX2P Accessory (Included))**
- **Power (On/Off) Button**
- **USB Port**
MACHINE LAYOUT (Cont’d)

REAR VIEW

- Handle Bar (1 Piece)
- SD Card Port (Access North American A/C Database)
- Left & Right Side Hose Connections
- Replaceable Refrigerant Filter/Dryer
- Refrigerant Identifier (For MX1234 & 3030 Only)
- 30 Lb Refrigerant Recovery (Internal) Tank
- One Piece Welded Frame
- Vacuum Pump Oil Level (Sight Glass)
- Rear Rubber Wheels (Foam Filled)
- 4” Swivel Locking Caster Brake, Polyurethane Tread

SIDE VIEW

- Refrigerant Identifier
- Refrigerant Oil Recovery Bottle
1. Remove the protective packaging between the storage tank and the scale.

2. **NOTE: BEFORE TURNING THE MX1234 MACHINE ON, ENSURE THERE ARE NO HOSES CONNECTED TO VEHICLE**

3. The Vacuum Pump on MX Series Machines contains Vacuum Pump Oil (factory filled). Check the “Sight Glass” on the Vacuum Pump to ensure the oil level is between the MAX and MIN lines.

4. Plug the MX1234 Power Cord into a proper power source.

5. On the front control panel, push the **POWER BUTTON**. A Blue Light will then turn ON.

6. Machine will go through the following internal status check (not all screens are shown)

   a. **Initial Start-Up Screen** (shows Version #)

   b. **SERVICE HOSES SHOULD NOT BE CONNECTED TO CAR AT THIS TIME.**

   a. Checking DOA Chamber (for oil separation) Pressure.

   a. **ENSURE SERVICE HOSES ARE NOT CONNECTED TO VEHICLE.**

   a. Acceptable Distillation Chamber Pressure.

   a. **AUTOMATIC AIR PURGE**

   a. Automatic Air Purge is now complete.

   b. Home Screen (will reappear once Air Purge has completed).

   c. Connect service hoses to the machine and install the include Oil Recovery Bottle.

   d. Machine can now be operated by using the color Touch Screen.
OVERVIEW (Primary Touch Screen Keys)

This MX series machine features a 7” (17.8 cm), color, touch-screen LCD display from which all machine functions or settings can be accessed.

HOME SCREEN

5 Selectable Functions

1. Refrigerant Recovery Key  Pg 24
2. A/C System Evacuation Key  Pg 26
3. Refrigerant Charge Key  Pg 27
4. Full Cycle Key (Recovery, Evacuate & Recharge)  Pg 29
5. Refrigerant Tank Refill Key  Pg 30

Touch Keys & Information Icons

- Weight Of Refrigerant In Tank (4 Segment Icon)
- Refrigerant Type In Tank
- Weight Of Refrigerant In Tank
- Filter Dryer Life (4 Segment Icon)
- Car System Health Mode Key  Pg 42
- A/C Data Base & End User License Agreement Key  Pg 44
- Job Tracker Key  Pg 46
- Refrigerant Identification Key
- Hybrid Vehicle Key  Pg 15
- Help Menu Key  Pg 13
- Machine Upkeep Key  Pg 14
  - Setup Function
  - Maintenance Menu
- Print Key  Pg 13
a. Use the MX1234’s Bluetooth Low Energy or Wi-Fi functions to connect to a wireless printer. The Bluetooth range is generally 30 ft, while Wi-Fi is generally 150 ft (both direct line of sight).
b. Touch to receive a printed copy showing results of the LAST function performed.

a. Touch to enter the HELP MENU.

a. Firmware Version shown at UPPER RIGHT.
b. Touch to return to Home Screen.
OVERVIEW (Primary Touch Screen Keys, Cont’d)

MACHINE UPKEEP (2 Functions)

1. Home Screen
   a. Touch \( \square \) to access the MACHINE UPKEEP Screen

2. Machine Upkeep Screen
   a. To enter the SETUP FUNCTION, touch \( \square \)
   b. Or to enter the MAINTENANCE MENU, touch \( \square \)

SETUP FUNCTIONS

- Units Of Measure
- Language
- Wireless Setup
- Set Time Or Date

Previous Screen

MAINTENANCE MENU

- Scale Maintenance Modes
- Filter Change
- Automatic Air Purge
- Valves & Controls

- Tank Weight Or Refrigerant Weight
- Job Tracker
- SAE (Or Global Standards)
- Shop Information
- Next Screen/Enter
- Cancel

- Pressure Transducer
- Change Tanks
- Software Upgrade
HYBRID VEHICLE KEY

1. Touch if the vehicle is Hybrid so service hoses are automatically flushed.

2. Touch if vehicle uses a HIGH VOLTAGE COMPRESSOR
   b. Or touch to return to HOME SCREEN

3. Connect service hoses to FLUSH PORTS.
   b. OPEN SERVICE COUPLERS

4. SERVICE HOSES BEING FLUSHED
   PLEASE WAIT

5. CLOSE SERVICE COUPLERS

6. PLEASE WAIT

7. a. DISCONNECT SERVICE HOSES from Flush Block
   b. Touch to move to Home Screen.
SETUP

SET LANGUAGE
(Not All Screens Are Shown)

MX Series Machines have an English language default setting. To change the default FROM English TO either German, French or Spanish, use the following instructions.

1. **Setup Function Screen**
   - a. Touch 📚 to view languages to work in.

2. **Select Default Language**
   - a. Touch a key that corresponds to the screen language you prefer: English / Spanish / French / German
   - b. Touch ➔ to enter selected language

SET UNITS OF MEASURE
(Not All Screens Are Shown)

Use this function to set up the MX1234 so that it displays Pressure, Temperature, Weight and Altitude in SAE or Metric units of measure that you want to work with.

1. **Setup Function Screen**
   - a. Touch 📚 to select Units Of Measure

2. **Select Pressure, Temperature, Weight, Altitude**
   - a. Touch keys to select default **Units Of Measure:**
     - Pressure Units 🔥
     - Temperature 🔥
     - Weight Units 🔥
     - Altitude 🌈 (enter value with keyboard)
   - b. Touch ➔ to enter data and move to next screen
SETUP (Cont’d)

SET TANK & REFRIGERANT WEIGHTS
(Not All Screens Are Shown)

Setup Function Screen

1

- a. Touch and to move to next screen

Confirm (Or Change) Weights*
(*For 30 Lb Tank Shown)

2

- a. If weights shown are correct, touch
- b. If weights shown must be changed, touch

Enter Password (Before Changing Weights)

3

- a. Use keypad to enter shop password (example only shown above).
- b. Touch to enter password and move to the next screen.

Confirm (Or Change) Tank Weight

4

- a. Enter EMPTY TANK WEIGHT. (example only shown above)
- b. Touch to enter tank weight and move to the next screen.

Enter Tank Water Capacity

5

- a. Touch “W” for WEIGHT, OR “V” for VOLUME

Confirm Or Change Refrigerant/Tank Weights

6

- a. Touch if values are correct, and move to next screen.
- b. Touch if further changes needed.
a. Touch any white box to check or uncheck which items to appear on a report.

b. Touch \( \rightarrow \) to enter selections and go to next screen.

---

a. Warranty Code - Touch white box to have MX machine generate an encrypted warranty code for manufacturer’s vehicle being serviced.

b. Track Jobs - Touch white box to have Job Data appear (in next screen).

c. Touch \( \rightarrow \) to enter selections and move to next screen.

---

a. Touch any white box to check or uncheck which items to appear on a report.

b. Touch \( \rightarrow \) to enter selections and go to next screen.
The MX Series features Bluetooth Low Energy and Wi-Fi capability for wireless connection to other wireless devices.

**Bluetooth LE**

Bluetooth Low Energy (Bluetooth LE, colloquially BLE, formerly marketed as Bluetooth Smart) is a wireless personal area network technology designed and marketed by the Bluetooth Special Interest Group (Bluetooth SIG). BLE is independent of classic Bluetooth and has no compatibility. Mobile operating systems including iOS, Android, Windows Phone and BlackBerry, as well as macOS, Linux, Windows 8 and Windows 10, natively support Bluetooth Low Energy.

**TACi100 CarSmart® A/C Inspector Temperature Probes (an optional accessory from CPS Products)** can be paired via BLE to any of the MX Series Machines. These 2 probes allow technicians to data log temperature, feels like temperature, humidity, dry and wet bulb, and dew point readings inside of, or around passenger vehicles and light trucks over a preset period of time.

Other BLE devices such as a thermal printer can be connected to the MX1234.

a. Ambient and Cabin Temperature values can be viewed when in the Car Health Mode (shown).
Wi-Fi
Wi-Fi is the wireless technology used to connect computers, tablets, smartphones and other devices to the internet, and is the radio signal sent from a wireless router to a nearby device, which translates the signal into data you can see and use. MX Series Machines can be connected to other Wi-Fi devices or printers. The MX Series also has the ability to mail job reports by entering an e-mail address in the MX machine.

Bluetooth Low Energy (BLE) Devices
a. After the CPS brand CarSmart BLE devices have been set up, they can be enabled/disabled by touching a “checkbox” under the BT logo image.
b. When a BLE device is enabled, the system will search for and connect to it when found and, when a BLE device has been connected, the Bluetooth icons will appear on the LCD touch screen.

Wi-Fi Devices
a. Select one or more of the desired Wi-Fi devices (Wi-Fi Device, Printer, E-mail) to pair the MX1234.
b. After a Wi-Fi device has been set up, it can be enabled/disabled by touching a “checkbox” under the image of that device.
c. When a wireless device is enabled, the system will search for and connect to it when found and, when a Wi-Fi device has been connected, one or more of the 4 icons (from #a above) will appear on the touch screen.
Please register this MX1234 Refrigerant Management Center for warranty (2 methods possible):


1. CPS Products Home Page (CPSPRODUCTS.COM)
2. On the “Support” tab, select the “Automotive” drop down.
3. a. Select Equipment Warranty Registration.
4. a. Enter information in the fields provided.
B. On-Screen Method:
Users may register an MX series machine via the following “Onscreen” method:

**Home Screen**
- Touch one of the three lines where you want to enter data.
- Touch \( \text{ } \) to reveal keypad.

**Shop Information**
- Touch \( \text{ } \) and enter information by following the prompts.
- Touch \( \text{ } \) to reveal keypad.

**Enter Business Name**
- Use the keypad to enter data (example shown).
- Touch \( \text{ } \) to enter data and move to next screen.

**Shop Information**
- If entries are OK, touch \( \text{ } \) to move to next screen.
MX Series machines are shipped with a default SAE Mode setting (for the U.S. and most Canadian markets). Yet, some Canadian and many global markets use the International setting.

**Setup Function Screen**

1. To change the factory default SAE Mode setting to International Mode, touch the SAE key.

2. Enter password (example password shown. Contact CPS Technical Support for password to change to International Mode) that has been set up for this machine.
   - Touch → to enter password.

3. Touch so the MX1234 machine operation follows SAE J2788 standard, then touch → OR,
   - Touch → for the MX1234 to follow INTERNATIONAL STANDARDS.
   - Touch → to enter selection and move to next screen.
DO NOT CONNECT SERVICE HOSES TO REFRIGERANT SOURCE UNTIL INSTRUCTED TO DO SO.

The RECOVERY process pulls refrigerant into a distillation chamber which has a coil that is heated by compressor outlet gas. This distills the refrigerant (turns it to gas) and separates liquids and debris from the refrigerant. Refrigerant then passes through the distillation chamber and compressor and is condensed into a liquid before coming to rest in the internal (included 30 Lb) storage tank.

Refrigerant recovery automatically ends when the machine detects that the vehicle’s system is void of refrigerant.

The color display will show the amount (weight) of refrigerant that has been recovered. This information may be printed by touching on the Home Screen.

1. Before opening the vehicles’ AC system for repair, first Recover & Recycle refrigerant from the AC system.

2. a. Touch .
   b. Touch Job Tracker white box for Job Info to appear on reports.
   c. Touch to move to next screen.

3. a. Follow onscreen instructions to complete Refrigerant Identification process.

4. a. As Refrigerant Identification process continues, connect identifier hose and OPEN COUPLER.
REFRIGERANT RECOVERY (Cont’d)

5

- Refrigerant Identification process complete.
- CLOSE VALVES and DISCONNECT COUPLER(S).

6

- CONNECT HOSES to vehicle and VALVES OPEN
- Touch ➤ to enter data and move to next screen.

7

- Screen displays weight of refrigerant RECOVERED and REMAINING TANK WEIGHT CAPACITY.

8

- Refrigerant Oil draining (into the MX machine’s included Oil Recovery Bottle).
- Countdown timer indicates remaining time.

9

- Use keypad to enter amount of recovered oil.
- Touch ➤ to enter data and move to next screen.

10

- Touch ✅ to return to Home Screen.
After all refrigerant has been recovered from the vehicle’s AC system, and the system has been reassembled following any repairs, the AC system must be evacuated.

Within a vehicle’s AC system, any moisture that is present can mix with oil to form “sludge”, while moisture mixed with refrigerant forms hydrofluoric and hydrochloric acids all of which can permanently damage a system. The MX1234 Refrigerant Management Center will “evacuate” (degas and dehydrate) an AC or refrigeration system prior to refrigerant charging. A system that has been properly “evacuated” assures that non-condensable and moisture won’t later harm the refrigerant or refrigerant oil in the system.

1. Touch for vehicle’s 2 CFM vacuum pump to evacuate the A/C system.

2. A custom vacuum time may be entered, or one of the preset 15 or 30 minute times may be selected.
   a. If a vacuum time of 15 minutes or greater is selected, evacuation will be followed by a 2 minute leak test (vacuum decay test).
   b. Touch to enter evacuation time and move to the next screen.

3. “Vacuum Time Remaining” will appear on the display.

4. When the specified Vacuum Time has expired, this screen will appear.
   a. Touch to return to Home Screen.
1. An **A/C Database** is integrated into the MX1234 and, can be accessed by touching the key. This database will specify the correct type and amount (weight) of refrigerant and refrigerant oil for vehicles sold in North America.

2. The charging sequence begins with a 10-minute vacuum leak test. This is an SAE requirement in SAE J2843 (R-1234yf systems only). If the system passes the vacuum leak test, the machine will charge the system to 15% of the selected charge.

3. Use an electronic leak detector meeting SAE J2913 for R-1234yf to leak test the evaporator(s).

4. The MX1234 will complete the remaining 85% of the charge.

5. Note: During cold conditions, a Heater Blanket (CPS optional accessory # CCXHB) may be wrapped around the Recovery Tank to assist with charging. If the MX1234 cannot complete a charge due to pressure equalization, it will notify the user to close the high side coupler and start the vehicle.

---

**Home Screen**

1. Touch .

   a. Touch or to confirm if system uses a high voltage compressor.

   If the system uses High Voltage Compressor, follow onscreen instructions to flush service hoses. (page 45)


   a. Touch White Box for Job Tracker and proceed to next screen.

3. Touch or to confirm if system uses a high voltage compressor.

4. Using the keypad, enter the desired charge amount (refrigerant weight).
a. Ensure hoses are connected to vehicle and hose valves are OPEN.

a. Start the vehicle.

a. Start the vehicle.

a. Vehicle AC system charging has begun.

b. Touch for Car Health Mode (see page 44 for details, OR
c. Touch to proceed to next screen.
FULL CYCLE

Select “Full Cycle” on the Home Screen to Recover, Recycle, Vacuum, Leak Check (if desired) and Charge the vehicle’s AC system.

1. The display will prompt you to enter a vacuum time and a vehicle charge amount.
2. Once Full Cycle has been selected and started, the machine will proceed with the Recovery process described in a previous section.
3. At the end of Recovery, the MX1234 will automatically proceed to Vacuum and Leak Test (if the vacuum time selected was greater than 10 minutes.)
4. Once the Vacuum process is complete, the desired charge amount will be installed in the vehicle.
5. The MX1234 will then ask if you want to enter the Car Health Mode. Select this mode to check/print system pressures and vent temperature.
6. If Car Health Mode is not selected, the MX1234 will instruct how to transfer refrigerant contained in the hoses into the vehicle’s AC system.
7. Final results of the Full Cycle process can be printed by touching the Print Key found at the bottom of the “Home” screen.

Full Cycle complete.

1
Home Screen

2
Full Cycle Screen

Full Cycle complete.

a. Touch to go to FULL CYCLE function.

a. Touch to proceed to next screen.
It is suggested that at least 4.5 lbs (2 kg) of refrigerant be available in the storage tank to begin any operation. If less is observed, choose this operation to add refrigerant to the internal tank. This operation transfers refrigerant in the liquid state to the internal storage tank. The Refrigerant amount transferred in this mode is not counted toward the filter life.

**CAUTION:** If hoses were connected before instructed, the machine will post a warning and instruct that the couplers be closed and the hoses removed. Not doing so will result in refrigerant loss (at the user’s expense).

**FOLLOW DIRECTIONS ON SCREEN AND DO NOT OPEN COUPLER OR TANK VALVE UNTIL SCREEN SHOWS TO OPEN BOTH.**

1. Touch ‼️ to add refrigerant to the MX1234 Tank.

   **FAILURE TO OPEN TANK VALVES WHEN INSTRUCTED WILL RESULT IN HAVING TO START OVER FROM BEGINNING**

2. Connect High Side Service Hose to Supply Tank.
   a. Touch ‼️ and follow the on screen instructions.

3. a. Invert the Supply Tank (source of refrigerant for the MX1234 tank) so that a liquid transfer can occur.
   b. Touch ‼️ and follow the on screen instructions.

   **FOLLOW DIRECTIONS ON SCREEN AND DO NOT OPEN COUPLER OR TANK VALVE UNTIL SCREEN SHOWS TO OPEN BOTH. IF YOU FAIL TO OPEN TANK, START OVER.**
a. Refrigerant transfer in process (screen shows weight of refrigerant that can still be transferred to MX1234 tank until it is full).

7. A “NO PRESSURE DETECTED IN THE TANK!” message will appear. Touch Continue to proceed.

8. A “STILL NO PRESSURE DETECTED!” message will appear. Touch Continue to proceed.

9. The main menu will appear. Touch and refer to page 30 (previous page) for further instructions on how to fill the tank.

10. Please contact CPS Technical Support if you have any problems registering this machine.

a. Refill function has been completed (the SMX1234 tank has been filled to capacity).

b. Touch to return to the Home Screen.
MAINTENANCE MENU

FILTER/DRYER
(Not All Screens Are Shown)

The included filter Filter/Dryer has the capacity to dry 150 lbs of recovered refrigerant. The remaining FILTER life is graphically displayed TOP CENTER of the HOME SCREEN. When all 4 segments are no longer visible, change the Filter/Dryer.

1. On the Home Screen touch and select from the Machine Upkeep Screen. Follow the displayed directions and enter the “Filter Reset Code” found in the NEW Filter/Dryer.
2. On the above screen, touch to change the Filter/Dryer.
3. Refrigerant Recovery cannot be performed if Filter Dryer life has been exceeded.
4. Close Liquid Valve on Recovery Tank Ball Valve.

Maintenance Screen

Maintenance – Filter/Dryer Change

Maintenance – Filter/Dryer Change

Maintenance – Filter/Dryer Change

Maintenance – Filter/Dryer Change
a. Turn Filter Dryer on end.

b. Check or change the Vacuum Pump Oil.

c. Touch ▶ to move to the next screen.

a. Replace the Filter Dryer with CPS part #FX3030X1.

a. Install the Filter Dryer.

a. Using the keypad, enter the NEW Filter Dryer ID #.

a. This screen will appear if an incorrect Filter ID# has been entered.

b. Touch ◀ to return to the keyboard screen and re-enter the correct Filter/Dryer ID #.

c. Touch ▶ to move to the next screen.

a. Filter Dryer replacement is complete.

b. Check or change the Vacuum Pump Oil.

a. Using the keypad, enter the NEW Filter Dryer ID #.
CPS® recommends replacing the oil with fresh CPS® brand Premium Vacuum Pump Oil when:

- Oil becomes contaminated (condensation, particles) or is discolored.
- A 100 hour run time break-in period has been reached.
- NOT RUNNING the pump for an extended time.
- Vacuum pump level is significantly higher than the rated blank-off vacuum.
- When pump no longer reaches a desired vacuum level (test with a vacuum gauge attached directly on the pump).
- Depending on your oil type, application, and possible contaminants acquired when servicing A/C systems, oil change frequency may range from daily to monthly.

CAUTION: DO NOT RUN THIS MX MACHINE WITH LOW OR NO OIL. RUNNING THIS EQUIPMENT WITH NO OR IMPROPER OIL WILL CAUSE PREMATURE FAILURE.

OIL CHANGE PROCEDURE

1. Before draining the Vacuum Pump Oil from an MX Series machine, ensure oil is warmed up. If not, run pump for 10 minutes. **Then, before draining oil, allow oil to reach room temperature.**
   If in doubt as to the temperature, use an infrared thermometer to check the housing temperature.
2. Turn MX Machine OFF then **REMOVE POWER CORD FROM OUTLET.**
3. Place MX Machine series pump over a suitable container for draining oil.
4. Remove Oil Drain CAP, then remove Oil Drain PLUG from drain port. **AVOID CONTACT WITH HOT OIL. HOUSING COMPONENTS MAY BE HOT.** Let contaminated oil drain into suitable container. Reinstall OIL DRAIN PLUG.
5. Add fresh Pro-Set Premium Vacuum Pump Oil (by CPS) until level is between the MAX and MIN lines on the pump housing.

PRO-SET® PREMIUM VACUUM PUMP OIL

Pro-Set® Premium Vacuum Pump Oil is an extremely high quality, severely hydro-treated vacuum pump oil and can be used in pumps made by most manufacturers.

Vacuum pump oil should always be clean and free of contaminants such as moisture, acids, vapors, dirt etc., to extend the life of your pump. So, replace the oil at the appropriate interval with Pro-Set Premium Vacuum Pump oil (available in pints, quarts and gallons).

<table>
<thead>
<tr>
<th>VPOG6</th>
<th>VPOG</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1 Gallon, 6/Case)</td>
<td>(1 Gallon)</td>
</tr>
<tr>
<td>VPOQ12</td>
<td>VPOQ</td>
</tr>
<tr>
<td>(1 Quart, 12/Case)</td>
<td>(1 Quart)</td>
</tr>
<tr>
<td>VPOP12</td>
<td>VPOP</td>
</tr>
<tr>
<td>(1 Pint, 12/Case)</td>
<td>(1 Pint)</td>
</tr>
</tbody>
</table>
a. On the Home Screen touch \( \mathcal{H} \) to access the MACHINE UPKEEP Screen.

a. Touch \( \mathcal{H} \) to enter the MAINTENANCE MENU.

a. Touch \( \mathcal{H} \) then \( \mathcal{H} \).

a. Touch Maintenance Mode Icon to: (left to right)
   - Check Calibration
   - Tare (Zero) the Scale
   - Scale Calibration (by CPS Products only).

a. Set the included 1 lb weight on the scale.
   b. If the scale weight is within \( \pm 1\% \) of 1 lb (0.99 – 1.01 lbs), touch the \( \mathcal{H} \) icon.

a. On the “Scale Maintenance Modes” screen, touch \( \mathcal{H} \).
b. Remove the refrigerant tank from the scale.
c. Touch \( \mathcal{H} \).
b. Touch \( \mathcal{H} \) to reset the empty tank weight to zero.
e. Touch \( \mathcal{H} \) to move to next screen.
MAINTENANCE (Cont’d)

Actual scale calibration is suggested only if the calibration test was off by more than 0.02 lbs. Calibration may be performed by a CPS® authorized service center. CPS Technical Support can also assist with the process. Scale calibration requires a certified 25 lb weight.

Note: The scale is powered by the MX machine (no batteries to replace)

PRESSURE TRANSDUCER (Tare Or Calibrate)
(Not All Screens Are Shown)

The internal pressure transducers are used during recovery, vacuum, air purge and in the manifold mode. Access this menu if you suspect that the internal pressure transducer readings are inaccurate.
- Calibration will require a certified pressure source above 70 PSIG.
- Follow the displayed direction for the select transducer maintenance function.
- Select Maintenance Mode for Pressure Transducer.

1. On the Maintenance Screen, touch .
2. Touch either the “Tare” or “Calibrate” keys.

Tare (Zero) The Pressure Transducer
(Not All Screens Are Shown)

3. Touch to “Tare” (zero out) the Pressure Transducer (PT).
4. Wait while PT1 zeros out.
a. Wait while PT2 zeros out.

a. Chart will populate with PT data

---

Calibrate Pressure Transducer

(Not All Screens Are Shown)

1. Touch to calibrate the Pressure Transducer.

2. Touch for HELP or to proceed.

3. Touch to proceed to the next Maintenance step.
The MX series features automatic air purge at machine start up. Air Purge may also be selected in the Maintenance Mode. Air Purge reduces “non-condensable gases” in the storage tank to an acceptable level and may take a few minutes to complete. **DO NOT TURN THE MACHINE OFF OR UNPLUG THE MACHINE DURING AN AIR PURGE CYCLE.**

1. This mode should only be entered with direction by CPS® Products Technical Support or by a CPS® Authorized Service Center.
2. This mode enables the testing of each device controlled by the MX Series computer. These devices include the ball valves, vacuum pump, compressor and pressure transducers.

**Maintenance Screen**

1. Touch 🔄 on the Maintenance Screen.

**Automotive Air Purge**

2. The MX1234 will check the Refrigerant Tank Pressure.

**Automotive Air Purge**

3. Automatic Air Purge in process.
   a. When Air Purge has been completed, the Maintenance Home Screen will appear.
a. Touch (Valves & Controls Icon).

Valves & Controls Screen

a. Select a valve or control for individual diagnostics.

Valves & Controls Screen

a. Or, select PT1 or PT2 for diagnostics.

Valves & Controls Screen

a. Zeroing PT1 & PT2.
Use this mode to update the MX1234 system software.

Loading New Firmware
1. The latest MX1234 firmware can be downloaded at https://www.cpsproducts.com/support/firmware-updates/.
2. Select the MX1234 model and follow the instructions also available on this page.

MAINTENANCE (Cont’d)

TOUCH SCREEN DISPLAY CALIBRATION

Under certain conditions, the touch screen may lose its calibration (i.e., touches on the screen don’t result in the desired result). When touching a screen function key, if it does not actuate the function, or engages an adjacent function, the screen needs to be calibrated.

Touch Screen Calibration:
1. Turn the machine’s power off.
2. Then, while pressing and holding any spot on the touch screen turn the power back on. A screen SET UP menu will be displayed.
3. Select Screen Calibration and follow the on-screen directions. (next page)
4. Calibration is then complete.
TOUCH SCREEN DISPLAY CALIBRATION (Cont’d)

1. Performing touch screen calibration. Touch screen to continue.

2. Press and release on the filled circle.

3. Press and release on the filled circle (upper right).

4. Press and release on the filled circle (lower right).

5. Press and release on the filled circle (lower left).

6. Press anywhere to check for accuracy. Touch rectangle to confirm calibration. Wait timeout to repeat calibration...

7. Press anywhere to check for accuracy. Press rectangle to confirm calibration. Wait timeout to repeat calibration...

8. To repeat calibration, reset the board while pressing on the screen until the calibration prompt appears. Touch screen to continue.

a. Touch and release the filled circle (upper left).

b. Touch rectangle to confirm accuracy.

c. Wait timeout to repeat calibration.

a. Touch anywhere to check for accuracy.

a. To repeat calibration, reset the board while touching the screen until calibration prompt appears.
CAR SYSTEM HEALTH MODE

Use this mode for checking system pressures and vent temperature before and after servicing the AC system.
1. System parameters can be printed while in this mode to provide a before and after comparison.
2. When entering the Car Health mode, the machine will provide a prompt to start the vehicle’s AC system.
3. Readings can then be collected and printed.
4. If Refrigerant Recovery is planned next, touch [ ]. This will take users to the Home Screen. If all is well, touch [ ] and the machine will guide users through clearing the hoses of refrigerant back into the AC system.

1. Touch [ ] to view vehicle’s AC system Low & High Side Pressures, and Probe Temperature (if used).

2. Ensure HOSES are CONNECTED TO VEHICLE and VALVES are OPEN.

3. Ambient, High & Low Side pressures shown
   a. Touch [ ] to proceed to next screen.

4. Select RECOVERY or FULL CYCLE.

5. CONFIRMATION - Touch [ ] to proceed to RECOVERY or FULL CYCLE.

6. CLOSE HIGH PRESSURE VALVE.
a. Wait.

a. CLOSE VALVES and DISCONNECT COUPLERS.

a. Wait.

a. Home Screen.

**CORDED TEMPERATURE PROBE ACCESSORY #TMX2P (INCLUDED)**

The TMX2P has a 15’ (4.5m) cord is commonly used to measure vent or liquid temperatures in vehicles. It has an operating temperature range of -40°F to 257°F / -40°C to +125°C.

a. At any time, plug the end of the corded Temperature Probe into the RCA jack on the FRONT of the MX Control Panel.

b. Insert the probe end into a vehicle’s A/C Vent or other location where a temperature reading is needed (Note: Keep metal portion of probe away from any moving or electrical parts).

a. View the resulting temperature in the Car System Health Mode section, or in the Valves & Controls Screen #2,3 or 4 on page 39.
A/C DATABASE FOR NORTH AMERICAN VEHICLES

A/C DATABASE FOR NORTH AMERICAN VEHICLES (Since 1994)
(Not All Screens Are Shown)

NORTH AMERICAN VEHICLE A/C DATA BASE
1. Insert the included SD Card (Secure Digital Memory Card) into the back of the MX1234 Machine.
2. An “End User License Agreement” (see APPENDIX in this manual) will appear on the MX1234 color screen.
3. By accessing any of the motor databases via this website, you automatically agree to all the terms and conditions of this agreement. If you do NOT agree to all terms and conditions, do NOT access or use the databases.
4. This database shows the type and weight of all refrigerants/oil used in vehicles sold in North America since 1994.

1. Insert the included SD Card (Secure Digital Memory Card) into the back of the MX1234 Machine.

2. An “End User License Agreement” (see APPENDIX in this manual) will appear on the MX1234 color screen.

3. By accessing any of the motor databases via this website, you automatically agree to all the terms and conditions of this agreement. If you do NOT agree to all terms and conditions, do NOT access or use the databases.

4. This database shows the type and weight of all refrigerants/oil used in vehicles sold in North America since 1994.

5. AC Database will provide REFRIGERANT TYPE, REFRIGERANT CAPACITY AND REFRIGERANT OIL TYPE
b. If all information shown is OK, touch ✔ to enter data and move to next screen.
a. On the HOME screen, touch if the vehicle is Hybrid/Electric to flush service hoses.
b. Touch to continue.

If machine is in Non-SAE mode, touch to flush service hoses.

a. If you want to Clear Service Hoses (of refrigerant), CLOSE COUPLERS and DISCONNECT SERVICE HOSES, then
b. Touch to continue.
c. The Home Screen will appear after the clearing process has been completed.

a. Touch on the Home Screen.

a. If CURRENT JOB data was previously entered, it will appear in TOP portion of screen.
b. Touching the “+” icon brings up the next screen.
c. Enter your Shop Password.

a. Touch any to enter data for each field.
b. Touch to proceed to next screen.
<table>
<thead>
<tr>
<th>ICON NAME</th>
<th>DESCRIPTION</th>
<th>OFF/ON</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIR PURGE</td>
<td>Touch to select AIR PURGE</td>
<td></td>
</tr>
<tr>
<td>AMERICAN</td>
<td>Touch to select AMERICAN Units</td>
<td></td>
</tr>
<tr>
<td>BAR</td>
<td>Touch to select BAR</td>
<td></td>
</tr>
<tr>
<td>BOTH COUPLERS</td>
<td>Touch to select BOTH couplers</td>
<td></td>
</tr>
<tr>
<td>° C</td>
<td>Touch to select CELSIUS</td>
<td></td>
</tr>
<tr>
<td>Calibration</td>
<td>Touch to select CALIBRATION</td>
<td></td>
</tr>
<tr>
<td>Car system health mode</td>
<td>Touch to launch CAR SYSTEM HEALTH MODE</td>
<td></td>
</tr>
<tr>
<td>Change tank</td>
<td>The CHANGE TANK icon notifies the user to change the tank</td>
<td></td>
</tr>
<tr>
<td>CHANGE UOM</td>
<td>Touch to change the unit of measurement</td>
<td></td>
</tr>
<tr>
<td>Charge</td>
<td>Touch to perform a CHARGE service</td>
<td></td>
</tr>
<tr>
<td>Charge complete</td>
<td>Indicates that the CHARGE service is COMPLETE</td>
<td></td>
</tr>
<tr>
<td>Charge low side</td>
<td>Press to select Low Side Charging</td>
<td></td>
</tr>
<tr>
<td>Check scale complete</td>
<td>The SCALE CHECK COMPLETE notifies users that a scale check is complete</td>
<td></td>
</tr>
<tr>
<td>Close ball valve</td>
<td>Press to close ball valve</td>
<td></td>
</tr>
<tr>
<td>Close coupler</td>
<td>The CLOSE COUPLER icon notifies the user to close the coupler during a recharge service</td>
<td></td>
</tr>
<tr>
<td>Close HP</td>
<td>Notifies the user to CLOSE HP valve during a CHARGE service</td>
<td></td>
</tr>
<tr>
<td>Close valve</td>
<td>Notifies user to CLOSE VALVE</td>
<td></td>
</tr>
<tr>
<td>Connect HP</td>
<td>Notifies user to connect HP port during tank refill</td>
<td></td>
</tr>
<tr>
<td>CPS filter</td>
<td>CPS FILTER</td>
<td></td>
</tr>
<tr>
<td>Disconnect couplers</td>
<td>Notifies the user to DISCONNECT COUPLERS</td>
<td></td>
</tr>
<tr>
<td>Drain oil</td>
<td>The DRAIN OIL icon notifies the user that oil is draining from the vehicle</td>
<td></td>
</tr>
<tr>
<td>End user agreement</td>
<td>Touch to access the End User License Agreement</td>
<td></td>
</tr>
<tr>
<td>Error</td>
<td>Displays when there is an ERROR</td>
<td></td>
</tr>
<tr>
<td>° F</td>
<td>Touch to select FARENHEIGHT</td>
<td></td>
</tr>
<tr>
<td>Failed</td>
<td>Indicates that a given operation FAILED</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ICON NAME</th>
<th>DESCRIPTION</th>
<th>OFF/ON</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILTER</td>
<td>Displays the current status of the filter life.</td>
<td></td>
</tr>
<tr>
<td>Filter change</td>
<td>Displays when a filter change is required</td>
<td></td>
</tr>
<tr>
<td>Filter change</td>
<td>Touch to CHANGE FILTER</td>
<td></td>
</tr>
<tr>
<td>Filter change</td>
<td>Touch to CHANGE FILTER</td>
<td></td>
</tr>
<tr>
<td>Full cycle complete</td>
<td>Indicates that the FULL CYCLE service is COMPLETE</td>
<td></td>
</tr>
<tr>
<td>Grams</td>
<td>Touch to select Grams as UOM</td>
<td></td>
</tr>
<tr>
<td>Help</td>
<td>Touch to launch the HELP Menu</td>
<td></td>
</tr>
<tr>
<td>Help</td>
<td>Provides Firmware version</td>
<td></td>
</tr>
<tr>
<td>High coupler</td>
<td>Touch to select the HIGH SIDE coupler only</td>
<td></td>
</tr>
<tr>
<td>Home</td>
<td>Touch to launch the HOME screen</td>
<td></td>
</tr>
<tr>
<td>Injection</td>
<td>Notifies the user to INJECT oil and/or dye at this point in the service</td>
<td></td>
</tr>
<tr>
<td>International</td>
<td>Touch to select INTERNATIONAL UOM</td>
<td></td>
</tr>
<tr>
<td>Kgcm2</td>
<td>Touch to select Kgcm2</td>
<td></td>
</tr>
<tr>
<td>Kgs</td>
<td>Touch to select Kgs as UOM</td>
<td></td>
</tr>
<tr>
<td>Kpa</td>
<td>Touch to select Kpa</td>
<td></td>
</tr>
<tr>
<td>Language</td>
<td>Touch to select LANGUAGE</td>
<td></td>
</tr>
<tr>
<td>Lbs</td>
<td>Touch to select Lbs as UOM</td>
<td></td>
</tr>
<tr>
<td>Lbs:Oz</td>
<td>Touch to select Lbs:Oz as UOM</td>
<td></td>
</tr>
<tr>
<td>Low coupler</td>
<td>Touch to select the LOW SIDE coupler only</td>
<td></td>
</tr>
<tr>
<td>Maintenance</td>
<td>Touch to launch the MAINTENANCE menu</td>
<td></td>
</tr>
<tr>
<td>Metric</td>
<td>Touch to select Metric UOM’s</td>
<td></td>
</tr>
<tr>
<td>Mpa</td>
<td>Touch to select MPA</td>
<td></td>
</tr>
<tr>
<td>Not now</td>
<td>Touch to postpone suggested operation</td>
<td></td>
</tr>
<tr>
<td>Open ball valve</td>
<td>Press to Open Ball Valve</td>
<td></td>
</tr>
<tr>
<td>Oz</td>
<td>Touch to select Oz as UOM</td>
<td></td>
</tr>
</tbody>
</table>
## APPENDIX (Complete Icon Library)

<table>
<thead>
<tr>
<th>ICON NAME</th>
<th>DESCRIPTION</th>
<th>OFF/ON</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLACE WEIGHT</td>
<td>Notifies user to PLACE WEIGHT on the scale</td>
<td></td>
</tr>
<tr>
<td>PRINT</td>
<td>Touch to PRINT a report of the service</td>
<td></td>
</tr>
<tr>
<td>PSIG</td>
<td>Touch to select PSIG</td>
<td></td>
</tr>
<tr>
<td>PT</td>
<td>Touch to select PRESSURE TRANSDUCER</td>
<td></td>
</tr>
<tr>
<td>PURITY</td>
<td>PURITY</td>
<td></td>
</tr>
<tr>
<td>QUIT</td>
<td>Touch to quit the current function</td>
<td></td>
</tr>
<tr>
<td>R-1234yf</td>
<td>Touch to select R-1234yf Refrigerant</td>
<td></td>
</tr>
<tr>
<td>R134a</td>
<td>Touch to select R134a Refrigerant</td>
<td></td>
</tr>
<tr>
<td>R22</td>
<td>Touch to select R22 Refrigerant</td>
<td></td>
</tr>
<tr>
<td>R407</td>
<td>Touch to select R407 Refrigerant</td>
<td></td>
</tr>
<tr>
<td>RECOVERY</td>
<td>Touch to perform an RECOVERY service</td>
<td></td>
</tr>
<tr>
<td>RECOVERY COMPLETE</td>
<td>Indicates that the RECOVERY service is COMPLETE</td>
<td></td>
</tr>
<tr>
<td>REFRIGERANT</td>
<td>REFRIGERANT</td>
<td></td>
</tr>
<tr>
<td>REFRIGERANT CHANGE</td>
<td>Touch to CHANGE REFRIGERANT</td>
<td></td>
</tr>
<tr>
<td>REFRIGERANT IDENTIFICATION</td>
<td>Touch to detect REFRIGERANT TYPE</td>
<td></td>
</tr>
<tr>
<td>REGISTER</td>
<td>Touch to REGISTER unit</td>
<td></td>
</tr>
<tr>
<td>RELAY</td>
<td>Touch to select RELAY</td>
<td></td>
</tr>
<tr>
<td>REMOVE WEIGHT</td>
<td>Notifies user to REMOVE WEIGHT from scale</td>
<td></td>
</tr>
<tr>
<td>SAE</td>
<td>Touch to select SAE</td>
<td></td>
</tr>
<tr>
<td>SAE CHARGE</td>
<td>Touch to perform a SAE CHARGE service</td>
<td></td>
</tr>
<tr>
<td>SAE CHARGE COMPLETE</td>
<td>Indicates that the SAE CHARGE service is COMPLETE</td>
<td></td>
</tr>
<tr>
<td>SCALE</td>
<td>Touch for SCALE functions</td>
<td></td>
</tr>
<tr>
<td>SCALE CHECK</td>
<td>Touch to perform SCALE CHECK</td>
<td></td>
</tr>
<tr>
<td>SCALE CHECK</td>
<td>The SCALE CHECK icon notifies users that a scale check is in progress</td>
<td></td>
</tr>
<tr>
<td>FULL CALIBRATION</td>
<td>Touch to perform full calibration</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ICON NAME</th>
<th>DESCRIPTION</th>
<th>OFF/ON</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCALE ZERO</td>
<td>Touch to RE-ZERO the scale</td>
<td></td>
</tr>
<tr>
<td>SERVICE</td>
<td>Touch to select SERVICE</td>
<td></td>
</tr>
<tr>
<td>SERVICE HOSES BEING FLUSHED</td>
<td>Indicates that the SERVICES HOSES are BEING FLUSHED</td>
<td></td>
</tr>
<tr>
<td>SET TIME</td>
<td>Touch to SET TIME</td>
<td></td>
</tr>
<tr>
<td>SETTINGS</td>
<td>Touch to launch the SETTINGS screen</td>
<td></td>
</tr>
<tr>
<td>SETUP</td>
<td>Touch to launch the SETUP menu</td>
<td></td>
</tr>
<tr>
<td>SPEAKER</td>
<td>Touch to enable sound</td>
<td></td>
</tr>
<tr>
<td>START AC</td>
<td>Notifies user to start vehicle and turn on AC during service</td>
<td></td>
</tr>
<tr>
<td>TANK</td>
<td>Indicates the level of refrigerant in the TANK</td>
<td></td>
</tr>
<tr>
<td>TANK FULL</td>
<td>Notifies user that TANK is FULL</td>
<td></td>
</tr>
<tr>
<td>TANK REFILL</td>
<td>Touch to perform a TANK REFILL</td>
<td></td>
</tr>
<tr>
<td>Tank Tare Setup</td>
<td>Press to change tank weight and WC</td>
<td></td>
</tr>
<tr>
<td>TANKS REFILL COMPLETE</td>
<td>Indicates that the TANK REFILL is COMPLETE</td>
<td></td>
</tr>
<tr>
<td>TURN UPSIDE DOWN</td>
<td>Notifies user to TURN TANK UPSIDE DOWN during tank refill</td>
<td></td>
</tr>
<tr>
<td>UNIT</td>
<td>Touch to select UOM</td>
<td></td>
</tr>
<tr>
<td>UPDATE</td>
<td>Touch to UPDATE</td>
<td></td>
</tr>
<tr>
<td>UPGRADE</td>
<td>Touch to select UPGRADE</td>
<td></td>
</tr>
<tr>
<td>UPKEEP</td>
<td>Touch to launch the UPKEEP menu</td>
<td></td>
</tr>
<tr>
<td>VACUUM</td>
<td>Touch to perform a VACUUM service</td>
<td></td>
</tr>
<tr>
<td>VACUUM COMPLETE</td>
<td>Indicates that the VACUUM service is COMPLETE</td>
<td></td>
</tr>
<tr>
<td>WARNING</td>
<td>The WARNING icon appears to caution users of a potential hazard</td>
<td></td>
</tr>
<tr>
<td>WEIGHT</td>
<td>Touch to Choose WEIGHT UOM</td>
<td></td>
</tr>
<tr>
<td>ZERO</td>
<td>Touch to RE-ZERO the pressure transducer</td>
<td></td>
</tr>
<tr>
<td>ZEROING</td>
<td>Indicates that the unit is ZEROING</td>
<td></td>
</tr>
</tbody>
</table>
MX ERROR CODES

“E1-BAD TXT EPROM”; A bad scale may cause this, also.
“E2-SCALE ADC”; Connection to the scale electronics lost.
“E3-SCALE EPROM”; Scale not calibrated?
“E4-CANNOT CAL”; Scale cannot be calibrated or bad calibration.
“E5-MBV FAULT: X”; Where X is a number from 1 to 5 indicating which MBV has failed.
“E6-AMB. THRM”; Ambient thermistor in the “head” is bad.
“E7-TNK THRM”; Thermistor attached to the oil sep. is bad.
“E8-PT TRANS”; Pressure transducer is bad.
“E10-BAD FILTER TIME”; Filter code problems.
“E11-DEFAULTS NOT SET”; What it says…
“E12-BAD GRAPH MEM”; Problems with the graphics like Chinese and Russian.
“E13-BAD PTR. TO INFO MEM”; Major software corruption, fatal error.
“E15 FLOW SWITCH ERROR” Air flow switch is open.
“UNKNOWN ERROR”; Cause of problem cannot be identified

IDENTIFIER CODES

“00001” Error #1: The air or gas readings were unstable.
• Solution: Move the unit away from sources of EMF or RFI such as radio transmitters and arc welders.
“00002” Error #2: The air or gas readings were excessively high.
• Solution: Move the unit away from sources of EMF or RFI such as radio transmitters and arc welders.
“00003” Error #3: The air calibration resulted in a low output.
• Solution: Prevent refrigerant from flowing into the unit through the sample inlet during air calibration.
• Solution: Allow any refrigerant in the atmosphere to dissipate before performing air calibration.
• Solution: Verify that the air intake and the exhaust are not obstructed
• Solution: Verify that the white filter is correctly plugged into the rubber grommets.
“00004” Error #4: The unit is beyond the operating temperature range
• Solution: Move the unit to an area where the ambient temperature is within the specified operating range.
“00005” Error #5: The refrigerant sampled has an excessively large amount of air or there was little or no sample flow due to a closed valve or plugged sample filter. This is the code to prompt the user to change the brass filter. This should be considered more as a prompt than an actual error.
• Solution: Verify the coupler valve is open.
• Solution: Verify the sample filter is not plugged with debris or oil.
• Solution: Replace brass sample filter
• Solution: Verify that the white filter is correctly plugged into the rubber grommets.
“00006” Error #6: The air sensor has expired and must be replaced before the analyzer can be used.
“00007” Error #7: The pressure read by the sensor has been determined to be too high.
• Solution: Verify that the exhaust is not obstructed.

REPLACEMENT PARTS

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FX3030X1</td>
<td>FX Series Maintenance Kit—Filter, Vacuum Pump oil and Coupler O-rings</td>
</tr>
<tr>
<td>QCL134</td>
<td>Auto Coupler Brass Low Side 14mm</td>
</tr>
<tr>
<td>QCH134</td>
<td>Auto Coupler Brass High Side 14mm</td>
</tr>
<tr>
<td>AR2788X14A</td>
<td>R134a Refill Hose Adaptor 1/2 ACME</td>
</tr>
<tr>
<td>AR2788X14B</td>
<td>R134a Refill Hose Adaptor 1/4 SAE</td>
</tr>
<tr>
<td>CRX430T</td>
<td>30lb 400psi Recovery Tank</td>
</tr>
<tr>
<td>CRX400T</td>
<td>50lb 400psi Recovery Tank</td>
</tr>
<tr>
<td>481500YF</td>
<td>Spouton™ Oil Injection Kit</td>
</tr>
</tbody>
</table>
MAXXAIR™ 1-2-3 WARRANTY

One Year Full Warranty
CPS Products Inc (herein CPS), warrants this MX series machine to be free from defects in materials, workmanship, and components for 1 Year from the date of purchase. If equipment should fail during the warranty period, it will be repaired or replaced* (at our option), at no charge to the original owner. Any parts or labor required to repair a defective machine or components covered under the warranty will be covered at no charge to the original purchaser of the machine.

Two Year Parts Warranty
From the end of Year 1 through the end of Year 2, CPS will repair or replace (at our option)* any parts (at no charge to the original owner, except for labor) that are found to be defective.

Three Year Compressor Warranty
From the end of Year 1 through the end of Year 3, CPS will repair or replace (at our option)* the compressor (at no charge to the original owner, except for labor) that is found to be defective.

Restrictions That Apply To This Limited Warranty
- This machine must be used in normal use situations only (as described in this Owner’s Manual).
- This limited warranty does NOT apply if: This machine, or a product part is broken by accident; this machine is misused, tampered with or modified in any way; this machine is used for recovering or recycling any substance other than the specified refrigerant type.
- This machine must be serviced and maintained (as specified in this Owner’s Manual).
- All warranty service claims must be made within the specified warranty periods mentioned above. Proof-of-purchase date by the original owner must be supplied.
- Warranty or service claims are subject to authorized inspection for product defect(s).
- *At the discretion of CPS, any part that fails or must be repaired within the warranty period, may be a new or reconditioned part.
- *At the discretion of CPS, if this machine fails or must be repaired within the warranty period, will be repaired or replaced with a different reconditioned machine.
- All repaired equipment will carry an independent 90 day warranty.
- Transportation charges for warranty service will be reimbursed by CPS upon verification of the warranty claim and submission of a freight bill for normal ground service. Approval from CPS must be obtained prior to shipping to a CPS authorized service center.
- CPS shall not be responsible for any additional costs associated with a product failure including, but not limited to, loss of work time, loss of refrigerant, cross-contamination of refrigerant, and unauthorized shipping and/or labor charges.
- Use of recovery/recycling equipment with unauthorized refrigerants or sealants voids this warranty.
- Authorized refrigerants are listed on the equipment or are available through the CPS Technical Service Department.
- CPS is not responsible for lost refrigerant. Owners should leak test this machine regularly and store this machine with all valves closed.
- This warranty does not apply to equipment that has been altered, misused or solely in need of field service maintenance. This repair policy does not include equipment that is determined to be beyond economical repair. WARRANTY VOIDED IF MACHINE USED FOR ANY OTHER PURPOSE.
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5. **TERM; TERMINATION.** This Agreement is effective for the period of time set forth in your Agreement with the web site owner hosting the DATABASES, but in no event longer than the term of the agreement between MOTOR and that web site Distributor. MOTOR may terminate this Agreement if You do not comply with any term or condition of this Agreement. Should this Agreement terminate, You agree to destroy any data previously obtained from the DATABASES.

6. **MISCELLANEOUS.**
   (a) This Agreement is the complete and exclusive statement between You and MOTOR relating to the subject matter hereof and supersedes all prior oral, written and/or contemporaneous negotiations, commitments and understandings of the parties.
   (b) This Agreement shall be governed by the laws of the State of New York without giving effect to any principles of conflicts of law. The United Nations Convention on Contracts for the International Sale of Goods shall not apply. You hereby irrevocably and unconditionally submit to the exclusive jurisdiction of any state or federal court sitting in New York, New York over any suit, action or proceeding arising out of or relating to this Agreement; provided that the foregoing shall not restrict Licensor or its agents from filing suits, actions or proceedings arising out of Host's failure to pay in any jurisdiction of Licensor or its agent's choice.
   (c) No delay or failure by MOTOR to exercise or enforce at any time any right or provision hereof shall be considered a waiver thereof or of MOTOR's right thereafter to exercise or enforce each and every right and provision of this Agreement.
   (d) If any provision hereof shall be held illegal, invalid or unenforceable, in whole or in part, such provision shall be modified to the minimum extent necessary to make it legal, valid and enforceable, and the legality, validity and enforceability of all other provisions of this Agreement shall not be affected thereby.
   (e) This Agreement may only be amended, modified, suspended or canceled by a writing signed by MOTOR.
   (f) This Agreement may be assigned by MOTOR, but may not be assigned by You.

---

**CPS COMPANY LOCATIONS**

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E-mail: sales@cpsaustralia.com.au

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