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Congratulations on the purchase of your Snap-on HD35L fluid exchanging machine!

Simply put, this machine is the cleanest, safest, easiest, fastest, most thorough, and most cost-efficient method of fluid exchange ever devised. Suddenly, regular automatic transmission and power steering maintenance become a more realistic proposition. Transmission and power steering fluid exchanging are cleaner and neater than ever!

Transmission Fluid Exchange:
To attain the highest level of protection for internal transmission components and increase the transmission’s life span to the maximum, it is recommended that the transmission’s lubrication system is serviced every 15,000 miles (or according to the vehicle owner’s manual). The Snap-on HD35L SERIES exchanges virtually all of the used transmission fluid to new, without even requiring the transmission pan to be dropped. There is no spillage, and no mess.

Power Steering Fluid Exchange (EETF304B Only):
Service neglect leads to power steering system complaints including poor handling, hard or sluggish steering, and objectionable noise. Historically, power steering system fluid service has been neglected, often due to the lack of a convenient method for providing such flush or fluid exchange services. Previous methods for flushing the power steering system or replacing the power steering fluid were time consuming and often inefficient or incomplete. Now, it’s easier than ever to replace up to 95% of the old power steering fluid in less than 8 minutes, to ensure your power steering system has a long, trouble-free life.

• The HD35L can be used practically anywhere – and with almost any vehicle.
• It is compact, mobile, and self-contained.
• It operates off the 12-volt battery of the vehicle being serviced.
• It does not require a pit, lift, or ramp.
• The HD35L hooks up directly to one of the vehicle’s transmission cooler lines for a transmission fluid exchange.
• The ATF fluid exchange, from setup to finish, typically takes 15 minutes or less!

No wonder an ATF exchange is the most requested method of preventative automatic transmission maintenance today. Now there’s the option of a power steering fluid exchange as well... Both in one machine!

Please take time to read through this manual to familiarize yourself with the HD35L before performing your first ATF or PSX exchange.
I. SAFETY INFORMATION

1.01 IMPORTANT SAFETY NOTICE

For your safety, read this manual thoroughly before operating your HD35L unit. Your HD35L unit is intended for use by properly trained, skilled professional automotive technicians. The safety messages presented below and throughout this user’s manual are reminders to the operator to exercise care when using this unit. Before using your HD35L unit, always refer to and follow the safety messages and applicable service procedures provided by the manufacturer of the vehicle being serviced.

• Read All Safety Instructions
Read, understand and follow all safety messages and instructions in this manual. Safety messages in this section of the manual contain a signal word with a three-part message and, in some instances, an icon.

• Signal Words
The signal word indicates the level of the hazard in a situation:

⚠️ DANGER
Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury to the operator or to bystanders.

⚠️ WARNING
Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury to the operator or to bystanders.

⚠️ CAUTION
Indicates a potentially hazardous situation which, if not avoided, may result in moderate or minor injury to the operator or to bystanders.

IMPORTANT
Indicates a situation which, if not avoided, may result in damage to the HD35L or the vehicle being serviced.

• Safety Messages
Safety messages in this section contain three different type styles:

• Normal type states the hazard.
• Bold type states how to avoid the hazard.
• Italic type states the possible consequences of not avoiding the hazard.
• Safety Symbols

A safety symbol, when present, gives a graphical description of the potential hazard, and how to avoid the hazard:

- **Risk of Fire**
- **Read Instructions Before Use**
- **Risk of Explosion**
- **Mandatory Eye Protection**
- **Risk of Entanglement**
- **Mandatory Protective Gloves**
- **Dangerous Fumes**
- **Mandatory Protective Clothing**
- **Do Not Pull or Move**
1.02 IMPORTANT SAFETY INSTRUCTIONS

⚠️ DANGER

Engine exhaust contains toxic gases.
• Vent vehicle’s exhaust away from work area.
• Do not breathe exhaust.
Exhaust gases will cause injury or death.

⚠️ WARNING

Improper use and operation.
• Read, understand and follow all safety messages and operational procedures in this manual before operating the Snap-on HD35L.
• This equipment should be operated only by qualified personnel.
• Use this equipment only as described in this manual.
Improper use and operation of this product can result in injury.

⚠️ WARNING

Engine systems can malfunction expelling fuel, oil vapors, hot steam, hot toxic exhaust gases and other debris.
• Wear safety goggles and protective clothing, user and bystander.
Engine systems that fail can cause serious injury.

⚠️ WARNING

Risk of expelling pressurized fluids.
• Wear safety goggles and protective clothing, user and bystander.
• Verify that engine and machine are off before connecting or disconnecting cooler lines and adapter hoses.
• Always unplug the machine from its power source when not in use.
• Keep the service hoses away from hot or moving engine parts. Hoses can split or burst causing fluid to be expelled.
• Tighten all connections properly. Insufficient or excessive torque can result in fluid leakage.
• Avoid contact with automatic transmission or power steering fluid.
• Treatment methods are as follows:
  Eyes: Flush eyes with plenty of water.
  Skin: Wash with soap and water.
I. Safety Information  

Snap-on® HD35L SERIES™

Inhalation: Move to uncontaminated area.
Ingestion: If large amount, get medical attention.
If any irritation persists, get medical attention.

- Dispose of used fluid according to environmental laws and regulations.

Although automatic transmission and power steering fluid pose no significant health hazards, some individuals may experience adverse reactions upon contact. Pressurized fluid can cause serious injury.

⚠️ WARNING

Risk of unexpected vehicle movement.
- Block drive wheels before starting vehicle’s engine to begin an exchange.
- Unless instructed otherwise, set parking brake and put gear selector in park.
- Do not leave a running vehicle unattended.

A moving vehicle can cause injury.

⚠️ WARNING

Engine has moving parts. Risk of entanglement.
- Do not place tools on fenders or other places in engine compartment.
- Keep yourself, clothing, battery cables and service hoses clear of moving parts such as fan blades, belts and pulleys.

Contact with moving parts can cause injury.

⚠️ WARNING

Risk of fire or explosion.
- Do not operate the HD35L in the vicinity of open containers of flammable liquids such as gasoline.
- Keep hoses and jumper cables away from heat sources and sharp edges.
- Do not operate equipment with damaged cords or hoses until they have been examined by a qualified serviceman.

Fire or explosion can cause injury.

⚠️ WARNING

Risk of fire or explosion. Gases produced by a battery are highly explosive.
- Wear safety goggles and protective clothing, user and bystander.
- This machine is equipped to operate on 12-volt DC power only. A power source greater than this can result in serious injury to the user as well as damage to the machine.
- Do not smoke, place metal tools on battery or allow a spark or flame in vicinity of battery.
- Clean battery terminals before hooking the machine’s battery clips to them. During cleaning, keep airborne corrosion from eyes, nose and mouth.
• Be sure both battery cables are tightly connected to the battery terminals as instructed before proceeding with a fluid exchange.
• Never remove battery cables from the battery terminals while the machine is operating. Only use the “EMERGENCY STOP” button located on the control panel to stop an exchange.
  
  Battery explosion can cause injury.

**WARNING**

Battery acid is a highly corrosive sulfuric acid.

- **Wear safety goggles and protective gloves, user and bystander.**
- **Have plenty of fresh water and soap nearby. If battery acid contacts skin, clothing, or eyes, flush exposed area with soap and water for 10 minutes.**
- **While cleaning battery’s terminals, keep airborne corrosion from eyes, nose and mouth.**
- **Do not touch eyes while working near battery.**
  
  *Battery acid can burn eyes and skin.*

**WARNING**

Risk of burns.

- **Wear gloves when working near hot engine components.**
- **Do not touch hot exhaust systems, manifolds, engines, radiators, etc.**
- **The automatic transmission fluid coming from the vehicle along with some of the machine’s components that the fluid comes into direct contact with (i.e. external: hoses and quick-disconnect fittings; internal: hoses and all fittings) may reach temperatures uncomfortable to the touch. Exercise caution in avoiding contact with these items.**
  
  *Hot components can cause injury or discomfort.*

**CAUTION**

Ratchet mechanisms and tools may slip or break if dirty. Mismatched or partially worn parts can cause ratchet or any tool to slip or break.

- **Frequently inspect and clean any tools used, and lubricate all non-sealed ratchet mechanisms with light oil.**
- **Do not replace worn parts individually. If adapter hose fittings become worn, see “Ordering Replacement Parts” to order new hoses.**
- **The use of any other accessories not specified in this manual may create a hazard.**
  
  *Tools that slip or break can cause injury.*
I. Safety Information

**CAUTION**

Risk of injury.
- This equipment should be operated by qualified personnel only.
- Use this equipment only as described in this manual.
- Always unplug the machine from its power source when not in use.
- Loop the power cord loosely in its proper location when machine is not in use.
- Do not operate equipment with a damaged battery cables or hoses, or if the equipment has been dropped or damaged, until it has been examined by a qualified service representative.
- Care should be taken to arrange the battery cables and service hoses so that they will not be tripped over or pulled.
- Never pull on the power cables or service hoses to transport the HD35L. Damage may occur to these components, or machine may tip over.
- Keep area of operation clear of unnecessary tools and equipment. Utilize recessed tool storage areas on the top of the machine.
- Never leave the machine running unattended.
- The HD35L is not designed for any other purpose than the exchanging of automatic transmission and power steering fluid.

*Operation of your HD35L unit by anyone other than qualified personnel may result in injury.*

**IMPORTANT**

Risk of equipment damage.
- Flushing high mileage cars that have not been previously serviced can cause operating problems in the transmission.
- Connect battery cables to a 12-volt power source only (i.e. vehicle's battery).
- Servicing, transporting, or storing this machine in an attitude other than the normal operating position can result in fluid spillage and/or component damage.
- Use only the manufacturer's recommended attachments.
- The Snap-on HD35L is fully automatic. Refer to your control panel at all times.
- Never pull on the power cables or service hoses to transport the HD35L. Damage may occur to these components, or machine may tip over.
- Periodically clean the machine by wiping down with a clean, soft, dry cloth.

*Improper operation of equipment may result in damage to machine or components.*

SAVE AND FOLLOW THESE INSTRUCTIONS!
II. SYSTEM FEATURES & SPECIFICATIONS

2.01 FEATURES

Mechanical Features
- Accurate sensor technology allows optimum fluid level to be maintained in vehicle’s transmission.
- Two in-line 22-micron absolute fluid filters capture microscopic particles and contaminants.
- Numbered quick-disconnect hoses with adapters save time in identifying the proper hoses for the application.
- Easy to use adapters allow quick hookup to virtually any automobile make and model, saving time and money.
- Clear service hoses give visual confirmation of new and used fluid movements.
- Ergonomically correct working height means greater productivity, less stress and strain.
- Durable roto-cast polyethylene body and tanks prevent vehicle damage. The unit is also lightweight and durable, for easier handling and longer life.
- Large 5-inch locking caster wheels make machine easy to maneuver.
- Easy-access service panel provides hassle-free operations for greater efficiency.

Electronic Features
- Self-contained battery cables hook up to the vehicle’s 12-volt battery.
- Automatic monitoring of fluid in new and used fluid tanks assures safe operation.
- Accurate sensor technology.
- LCD counter display with cumulative ATF options.
- Ability to exchange anywhere from 1 to 35 quarts in 1 quart intervals.
- Drain used fluid tank (no need to tip machine upside-down).
- Drain new fluid tank.
- Ability to pause machine during exchange to change transmission filter.
- Battery backup allows machine to resume where it left off should it lose power.
- Add new fluid to transmission in 2/10 quart increments (approx. 1/8” on the dipstick)
- Remove fluid from transmission in 2/10 quart increments (approx. 1/8” on the dipstick).
- Cycle valves feature allows you to electronically clean out valves.
- Totalizer check (indicates lifetime use).
- Interactive menu:
  - “Auto Prime” feature automatically primes the system
  - Indicate new fluid volume
  - Indicate used fluid capacity
  - Read battery voltage

Power Steering Fluid Exchange Unit  (EETF304B Only)
- Remote pendant for ease of operation.
- Compartment for new fluid bottle.
- Drains directly to waste tank.
2.02 DIMENSIONS & TECHNICAL SPECIFICATIONS

DIMENSIONS:

- 39 1/2" Tall
- 23" Wide
- 25 1/2" Deep

Service Hoses:
- 10’ outside of machine

Wheels:
- 5” locking casters (front)
- 5” casters (back)

Fluid Tanks:
- 40-Quart New Fluid Tank
- 40-Quart Used Fluid Tank

Weight:
- 135 lbs.

TECHNICAL SPECIFICATIONS:

Power:
- 12-Volt DC from vehicle battery

Fluid Sensors:
- Accurate sensor technology

Filters:
- 22-micron absolute fluid filters

Operating Temperature:
- 65º to 150ºF (15º to 65ºC)
2.03 MACHINE OVERVIEW

**EETF303B & EETF306A**

- **Dipstick Manifold** (EETF306A Only)
  Used when performing a dipstick exchange.

- **Control Panel**
  The HD35L is fully automatic. Refer to your control panel at all times.

- **Grey Service Hose** (EETF306A Only)
  Carries waste fluid from the vehicle’s dipstick tube to the machine.

- **Canister Filters**
  Protect the machine’s components & vehicle’s transmission. Placed for easy access.

- **Red Service Hose**
  Carries new ATF fluid from the machine to the vehicle being serviced. Also used to drain fluid tanks.

- **Battery Cables**
  Connect directly to the vehicle’s battery to power the machine.

- **Black Service Hose**
  Carries used ATF fluid from the vehicle being serviced to the machine.

- **Used Fluid Reservoir**
  Holds up to 40 quarts of used ATF or power steering fluid.

- **New PSX Fluid Bottle** (EETF304B Only)
  Holds new power steering fluid for PSX exchange.

- **PSX Dock Magnet** (EETF304B Only)
  Allows pendant assembly to dock on the control panel. Also conveniently holds PSX service hoses out of the way while performing a power steering fluid exchange.

- **Flow Diverter Valve**
  Allows user to switch hoses without disconnecting them from the vehicle.

- **Service Door**
  Removes for easy access to internal parts.

- **5” Locking Caster Wheels**
  Allow easy transport of the HD35L, while preventing unwanted rolling on non-level surfaces.
### III. OPERATING PROCEDURES

#### 3.01 SUGGESTED ADDITIONAL TOOLS

⚠️ **CAUTION**
- Frequently inspect and clean any tools used, and lubricate all non-sealed ratchet mechanisms with light oil.
- The use of any other accessories not specified in this manual may create a hazard.
- Read, understand and follow Safety Instructions in the front pages of this manual and on product safety labels.

<table>
<thead>
<tr>
<th>Line Wrenches</th>
<th>End Wrenches</th>
<th>Hex Wrenches</th>
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</thead>
<tbody>
<tr>
<td>3/8”</td>
<td>3/8”</td>
<td>1/8”</td>
</tr>
<tr>
<td>7/16”</td>
<td>7/16”</td>
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<td>1/2”</td>
<td>1/2”</td>
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<td>9/16”</td>
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<tr>
<td>3/4”</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Nut Drivers (American)</th>
<th>Nut Drivers (Metric)</th>
<th>Filter Band Clamp</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/16”</td>
<td>6 mm</td>
<td>For replacing canister filters</td>
</tr>
<tr>
<td>1/4”</td>
<td>8 mm</td>
<td></td>
</tr>
<tr>
<td>5/16”</td>
<td>9 mm</td>
<td></td>
</tr>
<tr>
<td>3/8”</td>
<td>10 mm</td>
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<tr>
<td>7/16”</td>
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<td>12 mm</td>
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<td>13 mm</td>
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<td></td>
<td>14 mm</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Metric End or Line Wrenches</th>
<th>Screwdrivers</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>10 mm</td>
<td>Phillips 1 long</td>
<td>Standard 1 long</td>
</tr>
<tr>
<td>11 mm</td>
<td>Phillips 1 short</td>
<td>Standard 1 short</td>
</tr>
</tbody>
</table>
IMPORTANT
Turn vehicle's A/C system OFF before starting an exchange.
New transmission fluid MUST be 65°F or above for optimal performance.

FIRST TIME OPERATION (Priming the System)
(Only necessary when machine is received, before first operation.)
System must be primed before first use.
1. Connect machine to battery
2. Make sure fluid is in new fluid tank
3. Connect the red and black service hoses together using the adapters
4. Press 0
5. Press 5
6. Press START

TECHNICAL SUPPORT
If you experience any problems or have any questions, call technical support at:
1-800-225-5786 (U.S.)
1-800-661-1786 (Canada)
III. Operating Procedures

Snap-on® HD35L SERIES™

FX-HD35L
Quick Start Instructions

INLINE Exchange

CONNECTION

Connect battery cables to vehicle's battery.

Press 1 for Inline Exchange

OPERATION

Connect appropriate adapters to vehicle's cooler line fittings.
Connect red and black service hoses to quick disconnect adapters on the end of the cooler line adapters.

Use the arrow keys ▲▼ to select the desired amount to be exchanged. Press 2 to proceed. Turn vehicle's engine on.
Press START to Begin

Press STOP to Pause Running

99 99
New Used

Once exchange is finished the screen will beep and display "Complete".

ADDITIONAL FEATURES

If needed, while running, pressing STOP once will pause the machine. Press PAUSE to resume from pause, or press a second time to cancel the exchange.

Check the fluid level. Press + or − to add or remove fluid in 2/10 of a quart increments. Use option 3 in the main menu to add a full quart and option 4 to remove a full quart.

Press 0 to return to the main menu.
III. Operating Procedures

**FX-HD35L Additional Functions**

**MAIN MENU**

- Connect battery cables to vehicle's battery.
  - Press 0 for Main Menu

**PRIMING THE MACHINE**

- Make sure there is fluid in the New Fluid Tank. Connect the Red and Black service hoses together using any two mating adapters.
  - Press 5
  - Press to begin the process.
  - The unit will shut off when complete.

**DRAINING THE TANKS**

- Connect any open end adapter to red hose and insert into appropriate disposal container. Pull diverter valve knob OUT.
  - Make sure all other hoses are disconnected!
  - From the Main Menu, press \( \downarrow \) to proceed to the next menu.
  - Press 6 to drain the New Fluid Tank. Press 7 to drain the Used Fluid Tank.
  - The unit will shut off when complete.

**VOLTAGE MONITOR**

- From the Main Menu, press \( \downarrow \) to proceed to the next menu.
- Press 8 to display the voltage.

942084
### Operating Procedures

**III. Operating Procedures**

---

### FX-HD35L

**Additional Functions**

#### HALTED: REVERSE HOSES

If the exchange stops and the display reads “Reverse Hoses”, push or pull the knob on the flow diverter valve to switch directions, and press .

#### HALTED: SHIFT TO NEUTRAL

If the exchange stops and the display reads “Shift to Neutral”, set the vehicle’s parking brake, shift to Neutral, and press .

#### FILTER CHANGE DUE

The machine will indicate when the canister filters need to be replaced. Use a standard filter band clamp tool to unscrew old filters, and replace them with new filters. Make sure new filters are on tight.

**IMPORTANT:** Machine must be primed after filter change.

#### TOTAL FILTER USE

From the Main Menu, press twice. Press to display the total filter use. Press to reset.

#### POWER FAILURE MEMORY

If there is a power failure during a transmission fluid exchange, the procedure can be continued seamlessly. Simply reconnect the battery cables, and press .

The exchange will resume where it left off.

#### CYCLE VALVES

From the Main Menu, press to proceed to the next menu. Press  to cycle the valves.

---

*942084*
**Snap-on® HD35L SERIES™**

**III. Operating Procedures**

---

**MFX-HD35L**

Quick Start Instructions

---

**INLINE Exchange**

---

**CONNECTION**

Connect battery cables to vehicle's battery.

---

**OPERATION**

Connect appropriate adapters to vehicle's cooler line fittings.

Connect red and black service hoses to quick disconnect adapters on the end of the cooler line adapters.

Use the arrow keys to select the desired amount to be exchanged. Press to proceed. Turn vehicle's engine on.

Press to begin the exchange.

Once exchange is finished the screen will beep and display "Complete".

---

**ADDITIONAL FEATURES**

If needed, while running, pressing once will pause the machine. Press to resume from pause, or press a second time to cancel the exchange.

Check the fluid level. Press or to add or remove fluid in 2/10 of a quart increments. Use option 3 in the main menu to add a full quart and option 4 to remove a full quart.

Press to return to the main menu.

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III. Operating Procedures

Snap-on® HD35L SERIES™

MFX-HD35L Quick Start Instructions

INLINE TRANSMISSION & POWER STEERING FLUID EXCHANGER

POWER STEERING Exchange

**CONNECTION**

Connect battery cables to vehicle’s battery.

<table>
<thead>
<tr>
<th>Press</th>
<th>for Main Menu.</th>
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<tbody>
<tr>
<td>4</td>
<td>twice.</td>
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<tr>
<td>4</td>
<td>for Power Steering mode</td>
</tr>
</tbody>
</table>

**OPERATION**

Connect the left side red & black service hoses to the PSX tube assembly.

With the vehicle’s engine running, insert tube 3/4 of the way into power steering fluid reservoir. Turn the ball valves to the “on” position on both hoses.

While watching the fluid level in the reservoir, use the “DRAIN” and “FILL” buttons on the remote pendant to repeatedly drain and add fluid. Repeated purging and adding of fluid will flush the old fluid out of the reservoir.

Turn the vehicle’s steering wheel all the way to the left, then all the way to the right, and back to center. Check the color of the fluid in the reservoir to ensure a clean exchange. Repeat if necessary.

When finished, adjust fluid level, turn the ball valves to the “off” position on both hoses, and remove hoses from power steering fluid reservoir.

Turn off vehicle’s engine, and replace reservoir cap.
III. Operating Procedures

MFX-HD35L
Additional Functions

**MAIN MENU**

Connect battery cables to vehicle's battery.

Press 0 for Main Menu

**PRIMING THE MACHINE**

Make sure there is fluid in the New Fluid Tank. Connect the Red and Black service hoses together using any two mating adapters.

Press 5. Press START to begin the process.

The unit will shut off when complete.

**DRAINING THE TANKS**

Connect any open end adapter to red hose and insert into appropriate disposal container. Pull diverter valve knob OUT.

Make sure all other hoses are disconnected!

From the Main Menu, press to proceed to the next menu.

Press to drain the New Fluid Tank. Press to drain the Used Fluid Tank. Press to begin the process.

The unit will shut off when complete.

**VOLTAGE MONITOR**

From the Main Menu, press to proceed to the next menu.

Press to display the voltage.
HALTED: REVERSE HOSES
If the exchange stops and the display reads "Reverse Hoses", push or pull the knob on the flow diverter valve to switch directions, and press .

HALTED: SHIFT TO NEUTRAL
If the exchange stops and the display reads "Shift to Neutral", set the vehicle's parking brake, shift to Neutral, and press .

FILTER CHANGE DUE
The machine will indicate when the canister filters need to be replaced. Use a standard filter band clamp tool to unscrew old filters, and replace them with new filters. Make sure new filters are on tight.

IMPORTANT: Machine must be primed after filter change.

TOTAL FILTER USE
From the Main Menu, press twice.
Press to display the total filter use. Press to reset.

POWER FAILURE MEMORY
If there is a power failure during a transmission fluid exchange, the procedure can be continued seamlessly.

Simply reconnect the battery cables, and press .
The exchange will resume where it left off.

CYCLE VALVES
From the Main Menu, press to proceed to the next menu.
Press to cycle the valves.
**INLINE Exchange**

**CONNECTION**

Connect battery cables to vehicle’s battery.

**OPERATION**

Connect appropriate adapters to vehicle’s cooler line fittings. Connect red and black service hoses to quick disconnect adapters on the end of the cooler line adapters.

Use the arrow keys ↑↓ to select the desired amount to be exchanged. Press START to proceed. Turn vehicle’s engine on.

Press START to begin.

Once exchange is finished the screen will beep and display “Complete”.

**ADDITIONAL FEATURES**

If needed, while running, pressing STOP once will pause the machine. Press START to resume from pause, or press a second time to cancel the exchange.

Check the fluid level. Press + or – to add or remove fluid in 2/10 of a quart increments. Use option 3 in the main menu to add a full quart and option 4 to remove a full quart.

Press 0 to return to the main menu.
DIPSTICK Exchange

**CONNECTION**

Connect battery cables to vehicle’s battery.

**OPERATION**

Connect red and gray service hoses to chrome manifold.

Insert nylon tube down dipstick tube the same length as the dipstick, being cautious not to insert too far.

**IMPORTANT:** Pull diverter valve knob OUT.

With the engine off, use the arrow keys \(\uparrow\) \(\downarrow\) to select the desired amount to be exchanged.

Press \(\text{Enter}^{\text{Down}}\) to proceed. Press \(\text{Enter}^{\text{Down}}\) again to begin exchange.

Start the vehicle’s engine when display prompts you to do so.

Press \(\text{Start}^{\text{Down}}\). Once exchange is finished the screen will beep and display “Complete”.

**ADDITIONAL FEATURES**

If needed, while running, pressing \(\text{Stop}^{\text{Down}}\) once will pause the machine. Press \(\text{Start}^{\text{Down}}\) to resume from pause, or press \(\text{Stop}^{\text{Down}}\) a second time to cancel the exchange.

Check the fluid level. Press \(\text{Add}^{\text{Down}}\) or \(\text{ Subtract}^{\text{Down}}\) to add or remove fluid in 2/10 of a quart increments. Use option 3 in the main menu to add a full quart and option 4 to remove a full quart.

Press \(0\) to return to the main menu.

---

942082
III. Operating Procedures

FXD-HD35L

Additional Functions

MAIN MENU

Connect battery cables to vehicle's battery.

Press 0 for Main Menu

PRIMING THE MACHINE

Make sure there is fluid in the New Fluid Tank. Connect the Red and Black service hoses together using any two mating adapters.

Press 5. Press Enter to begin the process.
The unit will shut off when complete.

DRAINING THE TANKS

Connect any open end adapter to red hose and insert into appropriate disposal container. Pull diverter valve knob OUT.

Make sure all other hoses are disconnected!

From the Main Menu, press to proceed to the next menu.

Press 6 to drain the New Fluid Tank. Press 7 to drain the Used Fluid Tank. Press 8 to begin the process.
The unit will shut off when complete.

VOLTAGE MONITOR

From the Main Menu, press 8 to proceed to the next menu.

Press 8 to display the voltage.

942082
Halted: Reverse Hoses
If the exchange stops and the display reads "Reverse Hoses", push or pull the knob on the flow diverter valve to switch directions, and press the Start button.

Halted: Shift to Neutral
If the exchange stops and the display reads "Shift to Neutral", set the vehicle's parking brake, shift to Neutral, and press the Start button.

Filter Change Due
The machine will indicate when the canister filters need to be replaced. Use a standard filter band clamp tool to unscrew old filters, and replace them with new filters. Make sure new filters are on tight. IMPORTANT: Machine must be primed after filter change.

Total Filter Use
From the Main Menu, press the down arrow twice. Press 3 to display the total filter use. Press 2 to reset.

Power Failure Memory
If there is a power failure during a transmission fluid exchange, the procedure can be continued seamlessly. Simply reconnect the battery cables, and press the Start button. The exchange will resume where it left off.

Cycle Valves
From the Main Menu, press the down arrow to proceed to the next menu. Press 8 to cycle the valves.
IV. HOSES & ADAPTERS

⚠️ CAUTION

- Do not replace worn parts individually. If adapter hose fittings become worn, see “Ordering Replacement Parts” to order new hoses.
- The use of any other accessories not specified in this manual may create a hazard.
- Read, understand and follow Safety Instructions in the front pages of this manual and on product safety labels.

4.01 ADAPTER HOSES

STANDARD HOSES

941801 - Hose #51
- Green-
5/8”-18 [F]
SAE 45° Flare - Swivel
(Mates with #52)
(Chrysler - 1993 and Newer)

941802 - Hose #52
- Green-
5/8”-18 [M]
SAE 45° Flare
(Mates with #51)
(Chrysler)

941803 - Hose #53
- Blue-
5/8”-18 [M]
SAE 45° Flare - Swivel
(Mates with #57)
(General Motors with 3/8” Tube Diameter Lines - All Years)

941805 - Hose #55
- Black-
3/8” Diameter Hose [F]
Open End Hose w/Clamp
(Mates with Step Fitting)
(Import - 1987 and Newer)

941807 - Hose #57
- Blue-
5/8”-18 [F]
SAE 45° Inverted
(Mates with #53)
(General Motors with 3/8” Tube Diameter Lines - 1997 and Newer)

941809 - Hose #59
- Black-
1/2” Diameter Hose [F]
Open End Hose w/Clamp
(Mates with Step Fitting)
(Import)

941813 - Hose #63
- Black-
5/16” Diameter Hose [F]
Open End Hose w/Clamp
(Mmates with Step Fitting)
(Import)

941815 - Hose #65
- Green-
1/4”-18 [M]
NPTF
(Mates with #75)
(Jeep Cherokee- 1980-1986)
<table>
<thead>
<tr>
<th>Part Number</th>
<th>Color</th>
<th>Size</th>
<th>Type</th>
<th>Compatibility</th>
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</thead>
<tbody>
<tr>
<td>941817</td>
<td>Red</td>
<td>1/2&quot;-20 [M]</td>
<td>SAE 45°</td>
<td>(Chrysler and Ford)</td>
</tr>
<tr>
<td>941818</td>
<td>Red</td>
<td>5/8&quot;-18 [M]</td>
<td>SAE Inverted - Swivel</td>
<td>(Ford With Large Nut Adapter - 1980 and Newer)</td>
</tr>
<tr>
<td>941819</td>
<td>Red</td>
<td>5/8&quot;-18 [F]</td>
<td>SAE Inverted</td>
<td>(Ford)</td>
</tr>
<tr>
<td>941820</td>
<td>Blue</td>
<td>1/2&quot;-20 [M]</td>
<td>SAE 90° Inverted - Swivel</td>
<td>(General Motors with 5/16&quot; Tube Diameter Lines - All Years)</td>
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<tr>
<td>941821</td>
<td>Blue</td>
<td>1/2&quot;-20 [F]</td>
<td>SAE Inverted</td>
<td>(General Motors &amp; Ford Expedition)</td>
</tr>
<tr>
<td>941822</td>
<td>Red</td>
<td>1/2&quot;-20 [F]</td>
<td>SAE Inverted</td>
<td>(Ford)</td>
</tr>
<tr>
<td>941823</td>
<td>Red</td>
<td>1/2&quot;-20 [M]</td>
<td>SAE 90° Inverted - Swivel</td>
<td>(Ford 5/16&quot; Small / Long Nut Adapter - 1980 and Newer)</td>
</tr>
<tr>
<td>940874</td>
<td>Red</td>
<td>M14 [F]</td>
<td>Banjo Fitting</td>
<td>(Ford Escort – 1994 and Newer)</td>
</tr>
<tr>
<td>940875</td>
<td>Red</td>
<td>M14 x 1.5 [M]</td>
<td>Bolt w/ 2 Washers</td>
<td>(Ford Escort - 1994 and Newer)</td>
</tr>
<tr>
<td>941828</td>
<td>Black</td>
<td>1/4&quot; [M]</td>
<td>Universal Bump Fitting</td>
<td>(Import)</td>
</tr>
<tr>
<td>Style No.</td>
<td>Description</td>
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<tr>
<td>941829-</td>
<td>Black - 1/4&quot; Diameter Hose [F] Open End Hose w/Clamp (Import)</td>
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<td>941832-</td>
<td>Black - 1/2&quot; [M] Universal Bump Fitting (Toyota, Nissan and Honda - 1980 and Newer)</td>
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<tr>
<td>941835-</td>
<td>Green - 9/16&quot;-18 [M] JIC 37° Flare - Inverted (Dodge Durango/Dakota - All Years)</td>
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<tr>
<td>941836-</td>
<td>Green - 9/16&quot;-18 [F] JIC 37° Flare - Swivel (Dodge Durango/Dakota - All Years)</td>
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<td></td>
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<tr>
<td>941842-</td>
<td>Black - 3/4&quot;-16 [F] SAE O-Ring Adapter (Chevy DuraMax w/Allison Transmission – 2001 &amp; Newer)</td>
<td></td>
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<tr>
<td>941080-</td>
<td>Red - 5/8-18 [M] (Ford Focus / Mercury Mystique)</td>
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<tr>
<td>941081-</td>
<td>Red - 5/8-18 [F] (Ford Focus / Mercury Mystique)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>940388-</td>
<td>Yellow - 3/4&quot;-18 [M] 90° Inverted SAE 45° - Swivel (Ford Torqshift / 250SD / 550SD / Econoline / Excursion)</td>
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<td></td>
</tr>
<tr>
<td>940389-</td>
<td>Yellow - 3/4&quot;-18 [F] Inverted SAE 45° Rigid - Straight (Ford Torqshift / 250SD / 550SD / Econoline / Excursion)</td>
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<tr>
<td>941900-</td>
<td>Yellow - 5/8&quot; Diameter Hose [F] Open End Hose w/Clamp (Chevy DuraMax w/Allison Transmission - 2003 &amp; Newer)</td>
<td></td>
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</tr>
</tbody>
</table>
### IV. Hoses & Adapters

**Snap-on® HD35L SERIES™**

941178  
1/2" Diameter PSX Y-Adapter  
(EETF304B Only)  
(All Vehicles)

### ALLISON HOSES (Optional)

<table>
<thead>
<tr>
<th>941844</th>
<th>Hose #134</th>
<th>Yellow-#16 PTT Thread</th>
<th>[Male]</th>
</tr>
</thead>
<tbody>
<tr>
<td>941845</td>
<td>Hose #135</td>
<td>Yellow-#16 PTT 30° Swivel</td>
<td>[Female]</td>
</tr>
<tr>
<td>941846</td>
<td>Hose #136</td>
<td>Yellow-#12 SAE</td>
<td>[Male]</td>
</tr>
<tr>
<td>941847</td>
<td>Hose #137</td>
<td>Yellow-#12 SAE</td>
<td>[Female]</td>
</tr>
<tr>
<td>941848</td>
<td>Hose #138</td>
<td>Yellow-#16 JIC</td>
<td>[Female]</td>
</tr>
<tr>
<td>941849</td>
<td>Hose #139</td>
<td>Yellow-#16 JIC</td>
<td>[Male]</td>
</tr>
<tr>
<td>941850</td>
<td>Hose #140</td>
<td>Yellow-#10 JIC</td>
<td>[Female]</td>
</tr>
<tr>
<td>941851</td>
<td>Hose #141</td>
<td>Yellow-#10 JIC</td>
<td>[Male]</td>
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<table>
<thead>
<tr>
<th>941893</th>
<th>Fitting</th>
<th>#12 ORFS</th>
<th>[Male]</th>
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<tbody>
<tr>
<td>941894</td>
<td>Hose #143</td>
<td>Yellow-#12 ORFS</td>
<td>[Female]</td>
</tr>
<tr>
<td>941895</td>
<td>Hose #144</td>
<td>Yellow-#12 JIC</td>
<td>[Male]</td>
</tr>
</tbody>
</table>
4.02 ADAPTERS

The following adapters allow quick and easy hookup to virtually any vehicle make and model.

- **1/2" Adapter** (940328)
- **GM Adapter** (942163S)
- **Quick Disconnect Tool** (942162)
- **5/8" Duramax Adapter** (941899)
- **3/8" Adapter** (940329)
- **5/16" Adapter** (940334)
- **Master Hose Connector** (940831)
- **3/8" Ford Adapter** (941910)
- **5/8" Medium GM Adapter** (942169)
- **Slider Pin Adapter (Optional)** (941966)
V. TROUBLESHOOTING & MAINTENANCE

COMMON PROBLEMS / SOLUTIONS

Problem: “Power Failure” screen displays

Solution 1: Check battery connection. Make sure there are no loose connections, and the machine’s battery clips are not reversed. Remove all corrosion from the battery terminals. Make sure vehicle’s A/C system is turned off.

Solution 2: The vehicle’s battery is not putting out enough voltage to run the machine.
Connect the machine to a better 12V power source.
Stand-alone shelf batteries will not work.

MAINTENANCE PROCEDURES

• Replace Canister Filters (Part#: 940796A) when machine prompts you to do so:

Use a standard filter band clamp tool to unscrew old filters, and replace them with new filters. Make sure new filters are on tight.

• Clean Waste Fluid Screen (Located in bottom of recessed hose tray area)
This helps eliminate surface tension caused by debris and contamination from the air.
Using a sharp pick, remove screen. Clean using degreaser and brush, and blow out with air compressor.

• Periodically Wipe Down Exterior using a soft, damp cloth.
VI. ORDERING REPLACEMENT PARTS

REPLACEMENT PART LIST

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOR942089W</td>
<td>Control Panel w/ Elec. Board &amp; Label (EETF303B) [FX]</td>
</tr>
<tr>
<td>NOR942090W</td>
<td>Control Panel w/ Elec. Board &amp; Label (EETF304B) [MFX]</td>
</tr>
<tr>
<td>NOR942088W</td>
<td>Control Panel w/ Elec. Board &amp; Label (EETF306A) [FXD]</td>
</tr>
<tr>
<td>NOR940304</td>
<td>Battery Cable Assembly</td>
</tr>
<tr>
<td>NOR941617W</td>
<td>Motor Control Box</td>
</tr>
<tr>
<td>NOR940469</td>
<td>Sensor Rod</td>
</tr>
<tr>
<td>NOR941613</td>
<td>27 1/2&quot; Fluid Tube</td>
</tr>
<tr>
<td>NOR941226</td>
<td>Fluid Tube Elbow Fitting</td>
</tr>
<tr>
<td>NOR940551</td>
<td>PSX Fill Pump [EETF304B Only]</td>
</tr>
<tr>
<td>NOR940688W</td>
<td>Manifold/Pump Assembly</td>
</tr>
<tr>
<td>NOR940843</td>
<td>Pressure Switch (Factory preset to 6 psi)</td>
</tr>
<tr>
<td>NOR940839</td>
<td>3/2 Solenoid Valve [Short] (S2)</td>
</tr>
<tr>
<td>NOR940840</td>
<td>3/2 Solenoid Valve [Tall] (S1)</td>
</tr>
<tr>
<td>NOR940841</td>
<td>Coil with Spade Connector [Short] (S2)</td>
</tr>
<tr>
<td>NOR940842</td>
<td>Coil with Spade Connector [Tall] (S1)</td>
</tr>
<tr>
<td>NOR940875</td>
<td>Standard Hose Kit</td>
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<tr>
<td>NOR941168</td>
<td>Allison Hose Kit (Optional)</td>
</tr>
<tr>
<td>NOR940927</td>
<td>Hose Tray</td>
</tr>
<tr>
<td>NOR941220</td>
<td>Hose Rack</td>
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<tr>
<td>NOR940985</td>
<td>Internal Hose Kit (EETF303B) [FX]</td>
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<tr>
<td>NOR941171</td>
<td>Internal Hose Kit (EETF304B) [MFX]</td>
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<tr>
<td>NOR942094</td>
<td>Internal Hose Kit (EETF306A) [FXD]</td>
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<tr>
<td>NOR940831</td>
<td>Master Hose Connector</td>
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<tr>
<td>NOR940785</td>
<td>Service Hose Black</td>
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<tr>
<td>NOR940786</td>
<td>Service Hose Red</td>
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<tr>
<td>NOR940787</td>
<td>Service Hose Black (PSX) [EETF304B Only]</td>
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<td>NOR940788</td>
<td>Service Hose Red (PSX) [EETF304B Only]</td>
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<tr>
<td>NOR940837</td>
<td>12&quot; Tube w/ Air Nipple (PSX) [EETF304B Only]</td>
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<tr>
<td>NOR940834</td>
<td>Pendant Assembly (PSX) [EETF304B Only]</td>
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<tr>
<td>NOR940663</td>
<td>Pendant Switch (PSX) [EETF304B Only]</td>
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<tr>
<td>NOR940922</td>
<td>Dock Magnet Assembly (PSX) [EETF-304B Only]</td>
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<tr>
<td>NOR940913</td>
<td>New Power Steering Fluid Bottle [EETF304B Only]</td>
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<tr>
<td>NOR941716W</td>
<td>Dipstick Manifold Assembly [EETF306A Only]</td>
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<tr>
<td>NOR941728</td>
<td>Gray Service Hose [EETF306A Only]</td>
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<tr>
<td>NOR941708</td>
<td>Dipstick Reducer [EETF306A Only]</td>
</tr>
<tr>
<td>NOR940557</td>
<td>5/16” x 6’ Poly Tube [EETF306A Only]</td>
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### VI. Ordering Replacement Parts

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tr>
<td>NOR942098</td>
<td>Chassis Red</td>
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<tr>
<td>NOR942097</td>
<td>Top Sink Red</td>
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<tr>
<td>NOR942099</td>
<td>Console Gray/Blk</td>
</tr>
<tr>
<td>NOR942113</td>
<td>Tank Cap</td>
</tr>
<tr>
<td>NOR942095</td>
<td>Red Tank - New Fluid</td>
</tr>
<tr>
<td>NOR942096</td>
<td>Red Tank - Waste Fluid</td>
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<tr>
<td>NOR942087</td>
<td>Service Panel Label</td>
</tr>
<tr>
<td>NOR942118</td>
<td>Locking Caster Wheel</td>
</tr>
<tr>
<td>NOR942137</td>
<td>Caster Wheel</td>
</tr>
<tr>
<td>NOR940905</td>
<td>Vinyl Mat</td>
</tr>
<tr>
<td>NOR940796A</td>
<td>Canister Filter</td>
</tr>
<tr>
<td>NOR942150</td>
<td>Used Fluid Screen (1 1/4&quot; Diameter)</td>
</tr>
<tr>
<td>NOR942085</td>
<td>Operations Manual</td>
</tr>
<tr>
<td>NOR942084</td>
<td>Quick Start &amp; Add'l Functions Bundle Set (EETF303B) [FX]</td>
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<td>Quick Start &amp; Add'l Functions Bundle Set (EETF304B) [MFX]</td>
</tr>
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<td>NOR942082</td>
<td>Quick Start &amp; Add'l Functions Bundle Set (EETF306A) [FXD]</td>
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<td>Additional Function Instructions (EETF304B) [MFX]</td>
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<td>Quick Start Instructions (EETF306A) [FXD]</td>
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<td>NOR942079</td>
<td>Additional Function Instructions (EETF306A) [FXD]</td>
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<tr>
<td>NOR940844</td>
<td>Adapter Instruction Sheet</td>
</tr>
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</table>
REPLACEMENT PART ILLUSTRATIONS

NOR940468
Manifold / Pump Assembly

NOR941617W
Motor Control Board

NOR940469
Sensor Rod

NOR941613
27 1/2” Fluid Tube

NOR941226
Fluid Tube Elbow Fitting

NOR940843
Pressure Switch

NOR940839
3/2 Solenoid Valve [Short] (S2)

NOR940840
3/2 Solenoid Valve [Tall] (S1)

NOR940841 or NOR940842
Coil with Spade Connector
Short (S2) or Tall (S1)
VI. Ordering Replacement Parts

ORDERING INFORMATION
To order replacement parts for the Snap-on HD35L SERIES, call:
1-800-225-5786 (U.S.)
1-800-661-1786 (Canada)

NOR940905
Vinyl Mat

NOR940796A
Canister Filter

NORR942150
Used Fluid Screen

NORH940927
Hose Tray

NOR941220
Optional Hose Rack
(Hoses Not Included)

NORR942137
Caster

NORR942118
Locking Caster
LIMITED ONE (1) YEAR WARRANTY
Snap-on EETF303B, EETF304B & EETF306A

Snap-on warrants only to the original Purchaser that under normal use, care and service, the Equipment (except as otherwise provided herein) shall be free from defects in material and workmanship for one year from the date of original invoice. External hoses, remote control modules, adapters and all other attachments, supplies and consumables (except as otherwise provided herein) are warranted for 90 calendar days from the date of original invoice. Filter elements are not warranted. Printed circuit boards purchased from, but not installed by Seller are not warranted.

SELLER’S OBLIGATIONS UNDER THIS WARRANTY ARE LIMITED SOLELY TO THE REPAIR OR, AT SELLER’S OPTION, REPLACEMENT OF EQUIPMENT OR PARTS WHICH TO SELLER’S SATISFACTION ARE DETERMINED TO BE DEFECTIVE AND WHICH ARE NECESSARY, IN SELLER'S JUDGEMENT, TO RETURN THE EQUIPMENT TO GOOD OPERATING CONDITION. NO OTHER WARRANTIES EXPRESS OR IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL APPLY AND ALL SUCH WARRANTIES ARE HEREBY EXPRESSLY DISCLAIMED.

This warranty does not cover (and separate charges for parts, labor and related expenses shall apply to) any damage to, malfunctioning, inoperability or improper operation of the Equipment caused by, resulting from or attributable to (A) abuse, misuse or tampering; (B) alteration, modification or adjustment of the Equipment by anyone other than Seller’s authorized representatives; (D) improper or negligent use, application, operation, care, cleaning, storage or handling; (E) fire, water, wind, lightning or other natural causes; (F) adverse environmental conditions, including, without limitation, excessive heat, moisture, corrosive elements, or dust or other air contaminants, radio frequency interference, electric power failure, power line voltages beyond those specified for the equipment, unusual physical, electrical or electromagnetic stress, and/or any other condition outside of Seller’s environmental specifications; (G) use of the Equipment in combination or connection with other equipment, attachments, supplies or consumables not manufactured or supplied by Seller; or (H) failure to comply with any applicable federal, state or local regulation.

Repairs or replacements qualifying under this Warranty will be performed on regular business days during Seller’s normal working hours within a reasonable time following Purchaser’s request. All requests for Warranty service must be made during the stated Warranty period. This warranty is non-transferable.