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# INTRODUCTION

## to the Flo-Dynamics 735 SERIES

*Congratulations on the purchase of your Flo-Dynamics 735 SERIES 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 Flo-Dynamics 735 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 (TSPS & TSDPS 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 735 Series 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 machine hooks up directly to one of the vehicle's transmission cooler lines or through the dipstick tube (TSD & TSDPS only) 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 machine 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 735 Series unit. Your 735 Series 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 735 Series 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 735 Series 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 Flo-Dynamics 735 Series.**
- **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.**

**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 735 Series 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.*



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 735 Series. 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 735 Series is not designed for any other purpose than the exchanging of automatic transmission and power steering fluid.

*Operation of your 735 Series unit by anyone other than qualified personnel may result in injury.*

## ⚠ CAUTION

- Do not replace worn parts individually. If adapter hose fittings become worn, see “VI – 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.

## 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 Flo-Dynamics 735 Series is fully automatic. Refer to your control panel at all times.
- Never pull on the power cables or service hoses to transport the 735 Series. 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 (TSPS & TSDPS)**

- 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

**Fuse:**  
15 Amp

**Fluid Sensors:**  
Accurate sensor technology

**Filters:**  
22-micron absolute fluid filters

**Operating Temperature:**  
65° to 150°F (15° to 65°C)



## 2.03 MACHINE OVERVIEW



## 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.

#### **Line Wrenches**

3/8"  
7/16"  
1/2"  
9/16"  
5/8"  
11/16"  
3/4"

#### **End Wrenches**

3/8"  
7/16"  
1/2"  
9/16"  
5/8"  
11/16"  
3/4"

#### **Hex Wrenches**

1/8"  
11/16"

#### **Nut Drivers (American)**

3/16"  
1/4"  
5/16"  
3/8"  
7/16"

#### **Nut Drivers (Metric)**

6 mm  
8 mm  
9 mm  
10 mm  
11 mm  
12 mm  
13 mm  
14 mm

#### **Filter Band Clamp**

*For replacing canister filters*

#### **Metric End or Line Wrenches**

10 mm  
11 mm  
12 mm  
13 mm  
14 mm  
15 mm  
16 mm  
17 mm  
18 mm  
19 mm  
20 mm

#### **Screwdrivers**

| <b>Phillips</b> | <b>Standard</b> |
|-----------------|-----------------|
| 1 long          | 1 long          |
| 1 short         | 1 short         |

## 3.02 FIRST TIME OPERATION & TECHNICAL SUPPORT

### 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:

**1-800-303-5874**



# TS735

## Quick Start Instructions

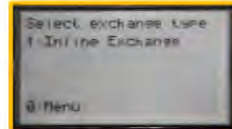
INLINE TRANSMISSION  
FLUID EXCHANGER

# INLINE Exchange

### CONNECTION

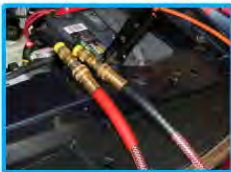


Connect battery cables to vehicle's battery.



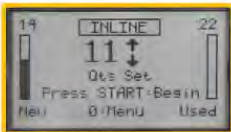
Press **1** for **Inline Exchange**




### OPERATION




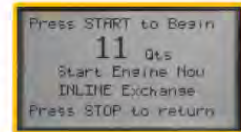
Connect appropriate adapters to vehicle's cooler line fittings.

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

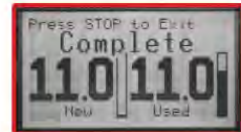


Use the arrow keys   to select the desired amount to be exchanged. Press  to proceed. Turn vehicle's **engine on**.

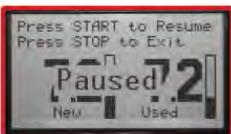
Press  to begin the exchange.






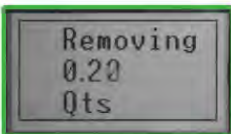
Once exchange is finished the screen will beep and display **"Complete"**.





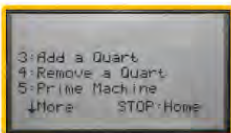
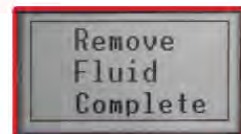
### ADDITIONAL FEATURES




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.



# TS735

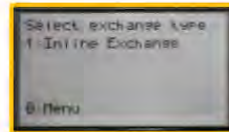
## Additional Functions

INLINE TRANSMISSION  
FLUID EXCHANGER

### MAIN MENU

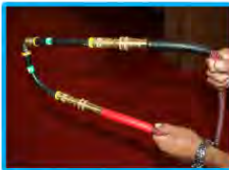


Connect battery cables to vehicle's battery.

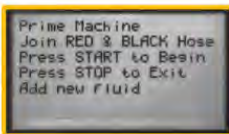
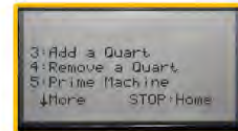


Press **0** for **Main Menu**

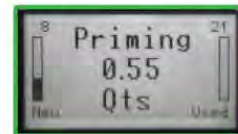
### PRIMING THE MACHINE



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** JKL. Press **ENTER START RESUME** to begin the process.  
The unit will shut off when complete.

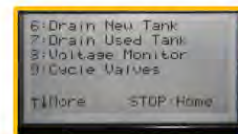


### DRAINING THE TANKS

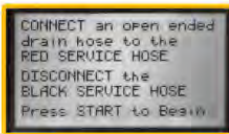


Connect any open end adapter to **red hose** and insert into appropriate disposal container. **Pull diverter valve knob OUT.**

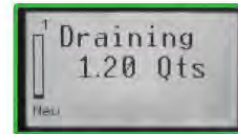
**Make sure all other hoses are disconnected!**



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

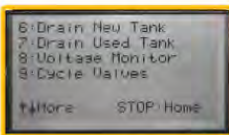


Press **6** MNO to drain the **New Fluid Tank**. Press **7** PQRS to drain the **Used Fluid Tank**. Press **ENTER START RESUME** to begin the process.



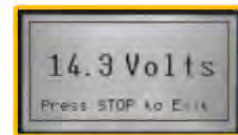
The unit will shut off when complete.

### VOLTAGE MONITOR



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

Press **8** TUV to display the voltage.





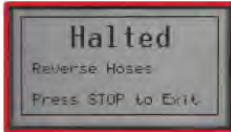



# TS735

## Additional Functions

INLINE TRANSMISSION  
FLUID EXCHANGER

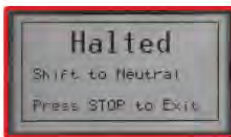
### HALTED: REVERSE HOSES




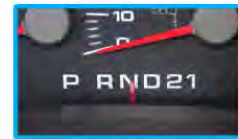
If the exchange stops and the display reads "Reverse Hoses", push or pull the knob on the flow diverter valve to switch directions, and press .



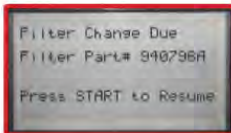
### HALTED: SHIFT TO NEUTRAL



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

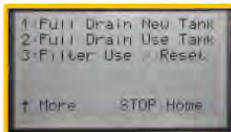



The machine will indicate when the canister filters need to be replaced. Use a standard filter band clamp tool to unscrew old filters, and replace them with new filters. Make sure new filters are on tight.





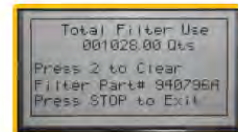
**IMPORTANT:** Machine must be primed after filter change.

### TOTAL FILTER USE

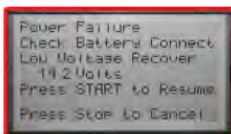


From the Main Menu, press  twice.


Press  to display the total filter use. Press  to reset.



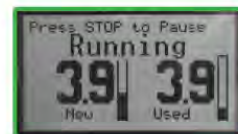
### POWER FAILURE MEMORY



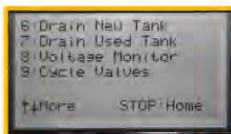
If there is a power failure during a transmission fluid exchange, the procedure can be continued seamlessly.

Simply reconnect the battery cables, and press .


The exchange will resume where it left off.

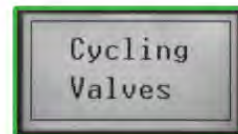


### CYCLE VALVES



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

Press  to cycle the valves.





# TSD735

## Quick Start Instructions

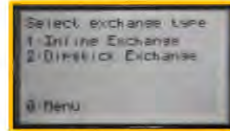
INLINE or DIPSTICK  
TRANSMISSION FLUID  
EXCHANGER

# INLINE Exchange

### CONNECTION



Connect battery cables to vehicle's battery.



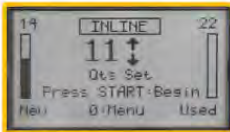
Press **1** for Inline Exchange




### OPERATION




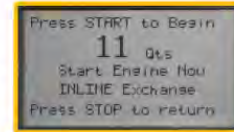
Connect appropriate adapters to vehicle's cooler line fittings.

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

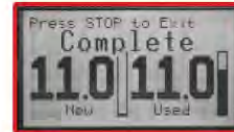


Use the arrow keys   to select the desired amount to be exchanged. Press  to proceed. Turn vehicle's **engine on**.

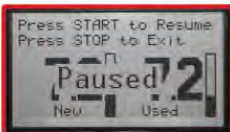
Press  to begin the exchange.






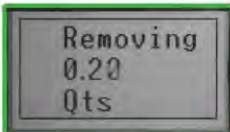
Once exchange is finished the screen will beep and display "Complete".





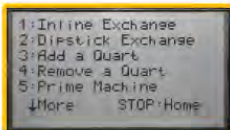
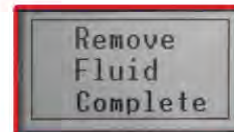
### ADDITIONAL FEATURES




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.



# TSD735

## Quick Start Instructions

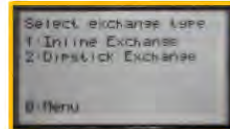
INLINE or DIPSTICK  
TRANSMISSION FLUID  
EXCHANGER

# DIPSTICK Exchange

### CONNECTION



Connect battery cables to vehicle's battery.



Press **2** for Dipstick Exchange

### 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.

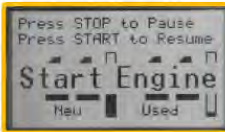
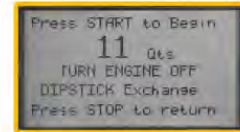


**IMPORTANT: Pull diverter valve knob OUT.**



With the **engine off**, use the arrow keys to select the desired amount to be exchanged.

Press to proceed. Press again to begin exchange.

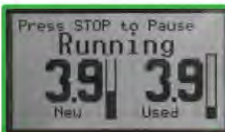


Start the vehicle's engine when display prompts you to do so.

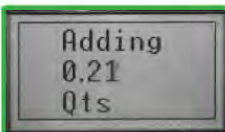
Press . Once exchange is finished the screen will beep and display "Complete".



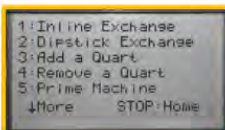
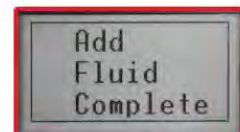
### ADDITIONAL FEATURES



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.



# TSD735

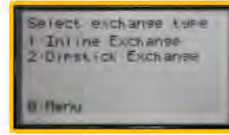
## Additional Functions

INLINE or DIPSTICK  
TRANSMISSION FLUID  
EXCHANGER

### MAIN MENU



Connect battery cables to vehicle's battery.

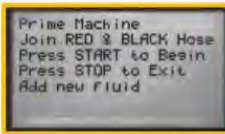
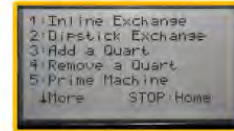


Press **0** for **Main Menu**

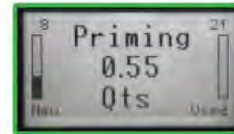
### PRIMING THE MACHINE



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** **JKL**. Press **ENTER START RESUME** to begin the process.  
The unit will shut off when complete.

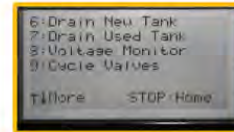


### DRAINING THE TANKS

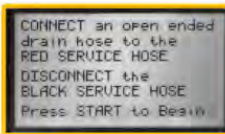


Connect any open end adapter to **red hose** and insert into appropriate disposal container. **Pull diverter valve knob OUT.**

**Make sure all other hoses are disconnected!**

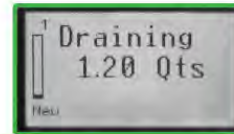


From the Main Menu, press **▼** to proceed to the next menu.

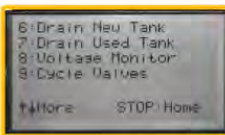


Press **6** **MNO** to drain the **New Fluid Tank**. Press **7** **PQRS** to drain the **Used Fluid Tank**. Press **ENTER START RESUME** to begin the process.

The unit will shut off when complete.

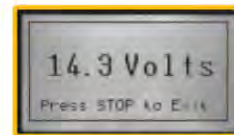


### VOLTAGE MONITOR



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

Press **8** **TUV** to display the voltage.



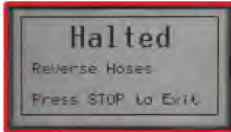



# TSD735

## Additional Functions

INLINE or DIPSTICK  
TRANSMISSION FLUID  
EXCHANGER

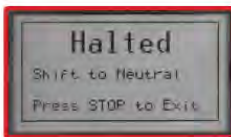
### HALTED: REVERSE HOSES




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 .



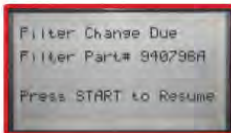
### HALTED: SHIFT TO NEUTRAL



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

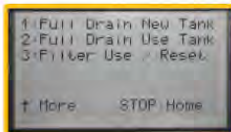



The machine will indicate when the canister filters need to be replaced. Use a standard filter band clamp tool to unscrew old filters, and replace them with new filters. Make sure new filters are on tight.



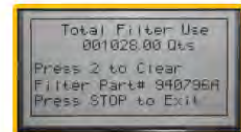
**IMPORTANT:** Machine must be primed after filter change.

### TOTAL FILTER USE

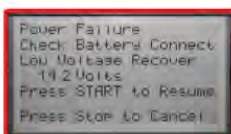


From the Main Menu, press  twice.


Press  to display the total filter use. Press  to reset.



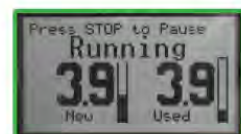
### POWER FAILURE MEMORY



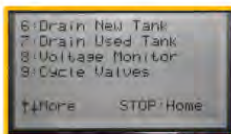
If there is a power failure during a transmission fluid exchange, the procedure can be continued seamlessly.

Simply reconnect the battery cables, and press .


The exchange will resume where it left off.

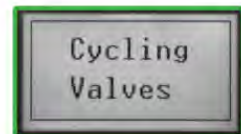


### CYCLE VALVES



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

Press .





# TSPS735

## Quick Start Instructions

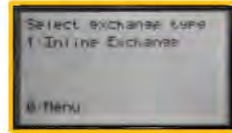
INLINE TRANSMISSION  
& POWER STEERING  
FLUID EXCHANGER

# INLINE Exchange

### CONNECTION

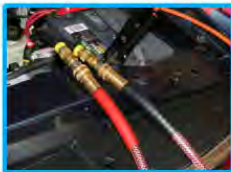


Connect battery cables to vehicle's battery.



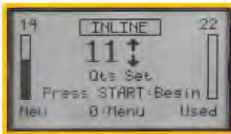
Press **1** for Inline Exchange




### OPERATION




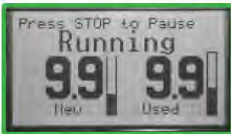
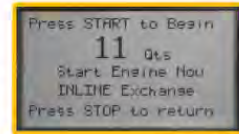
Connect appropriate adapters to vehicle's cooler line fittings.

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

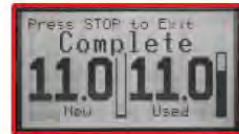


Use the arrow keys   to select the desired amount to be exchanged. Press  to proceed. Turn vehicle's **engine on**.

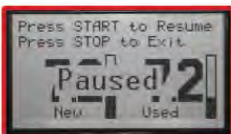
Press  to begin the exchange.






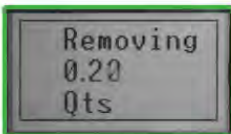
Once exchange is finished the screen will beep and display "Complete".





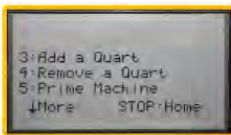
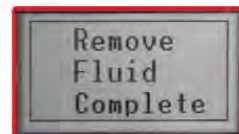
### ADDITIONAL FEATURES




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.



# TSPS735

## Quick Start Instructions

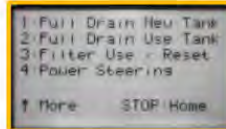
INLINE TRANSMISSION  
& POWER STEERING  
FLUID EXCHANGER

# POWER STEERING Exchange

### CONNECTION



Connect battery cables to vehicle's battery.



Press **0** for **Main Menu**.

Press **▼** twice.

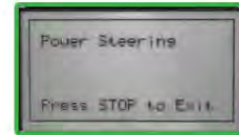
Press **4** for **Power Steering mode**

### 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.



# TSPS735

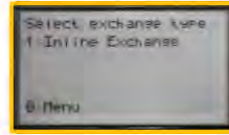
## Additional Functions

INLINE TRANSMISSION  
& POWER STEERING  
FLUID EXCHANGER

### MAIN MENU

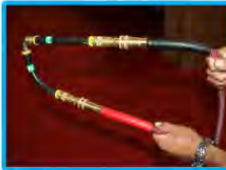


Connect battery cables to vehicle's battery.

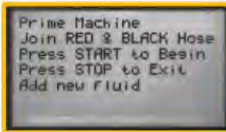
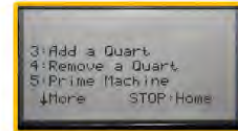


Press **0** for **Main Menu**

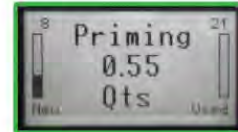
### PRIMING THE MACHINE



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** **JKL**. Press **ENTER START RESUME** to begin the process. The unit will shut off when complete.

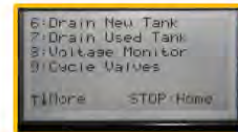


### DRAINING THE TANKS

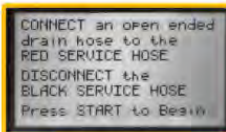


Connect any open end adapter to **red hose** and insert into appropriate disposal container. **Pull diverter valve knob OUT.**

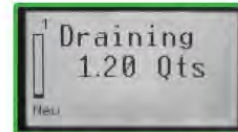
**Make sure all other hoses are disconnected!**



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

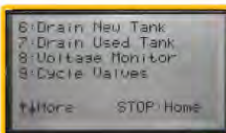


Press **6** **MNO** to drain the **New Fluid Tank**. Press **7** **QRS** to drain the **Used Fluid Tank**. Press **ENTER START RESUME** to begin the process.



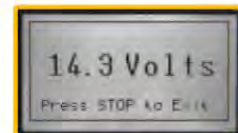
The unit will shut off when complete.

### VOLTAGE MONITOR



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

Press **8** **TUV** to display the voltage.





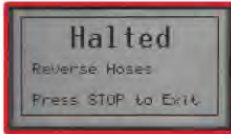



# TSPS735

## Additional Functions

INLINE TRANSMISSION  
& POWER STEERING  
FLUID EXCHANGER

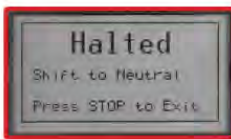
### HALTED: REVERSE HOSES




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 .



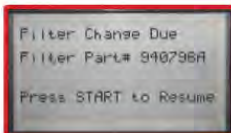
### HALTED: SHIFT TO NEUTRAL



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

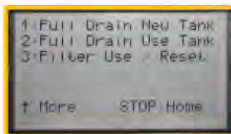



The machine will indicate when the canister filters need to be replaced. Use a standard filter band clamp tool to unscrew old filters, and replace them with new filters. Make sure new filters are on tight.





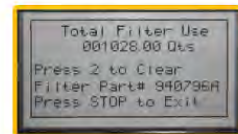
**IMPORTANT:** Machine must be primed after filter change.

### TOTAL FILTER USE

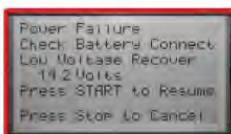


From the Main Menu, press  twice.


Press  to display the total filter use. Press  to reset.



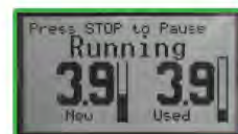
### POWER FAILURE MEMORY



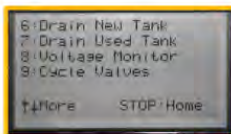
If there is a power failure during a transmission fluid exchange, the procedure can be continued seamlessly.

Simply reconnect the battery cables, and press .


The exchange will resume where it left off.

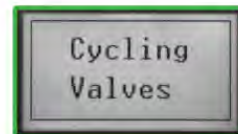


### CYCLE VALVES



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

Press  to cycle the valves.





# TSDPS735

## Quick Start Instructions

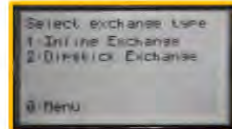
INLINE or DIPSTICK  
TRANSMISSION & POWER  
STEERING FLUID EXCHANGER

# INLINE Exchange

### CONNECTION

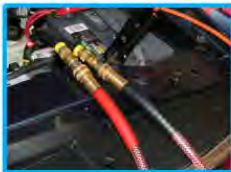


Connect battery cables to vehicle's battery.



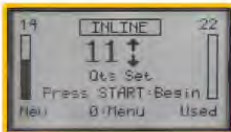
Press **1** for Inline Exchange




### OPERATION




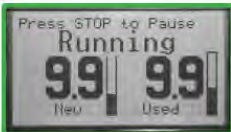
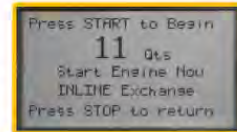
Connect appropriate adapters to vehicle's cooler line fittings.

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

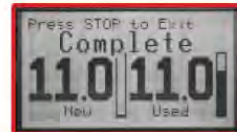


Use the arrow keys   to select the desired amount to be exchanged. Press  to proceed. Turn vehicle's **engine on**.

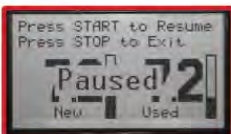
Press  to begin the exchange.






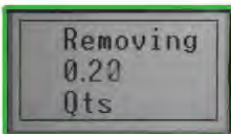
Once exchange is finished the screen will beep and display "Complete".





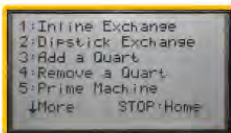
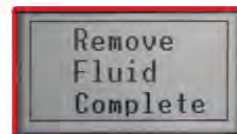
### ADDITIONAL FEATURES




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.



# TSDPS735

## Quick Start Instructions

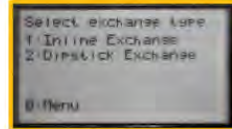
INLINE or DIPSTICK  
TRANSMISSION & POWER  
STEERING FLUID EXCHANGER

# DIPSTICK Exchange

## CONNECTION



Connect battery cables to vehicle's battery.



Press **2** for Dipstick Exchange

## 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.

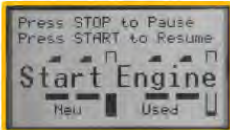
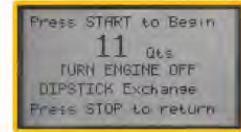


**IMPORTANT: Pull diverter valve knob OUT.**



With the **engine off**, use the arrow keys to select the desired amount to be exchanged.

Press to proceed. Press again to begin exchange.

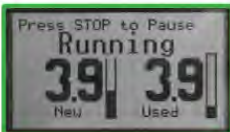


Start the vehicle's engine when display prompts you to do so.

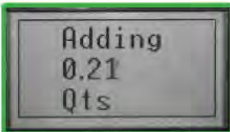
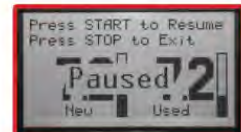
Press . Once exchange is finished the screen will beep and display "Complete".



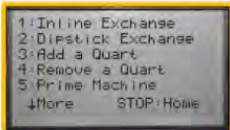
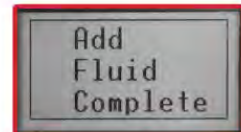
## ADDITIONAL FEATURES



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.



# TSDPS735

## Quick Start Instructions

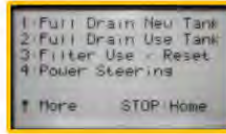
INLINE or DIPSTICK  
TRANSMISSION & POWER  
STEERING FLUID EXCHANGER

# POWER STEERING Exchange

## CONNECTION



Connect battery cables to vehicle's battery.



Press **0** for **Main Menu**.

Press **▼** twice.

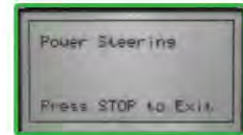
Press **4** for **Power Steering mode**

## OPERATION



Connect the left side red & grey service hoses to the PSX tube assembly. Master connector must be used for grey hose.

With the vehicle's engine running, insert tube 3/4 of the way into power steering fluid reservoir. Turn the ball valve on red hose to the "on" position.



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 valve on the red hose to the "off" position, and remove hoses from power steering fluid reservoir.

Turn off vehicle's engine, and replace reservoir cap.



# TSDPS735

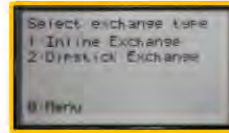
## Additional Functions

INLINE or DIPSTICK  
TRANSMISSION & POWER  
STEERING FLUID EXCHANGER

### MAIN MENU

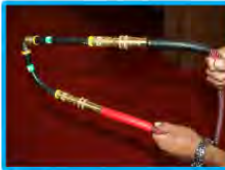


Connect battery cables to vehicle's battery.

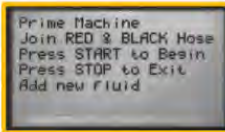
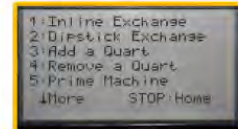


Press **0** for Main Menu

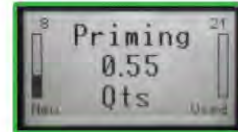
### PRIMING THE MACHINE



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** JKL. Press **ENTER START RESUME** to begin the process.  
The unit will shut off when complete.

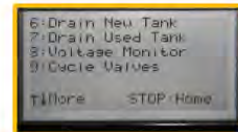


### DRAINING THE TANKS

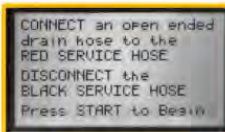


Connect any open end adapter to **red hose** and insert into appropriate disposal container. **Pull diverter valve knob OUT.**

**Make sure all other hoses are disconnected!**

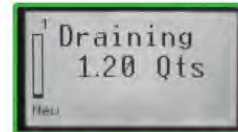


From the Main Menu, press **▼** to proceed to the next menu.

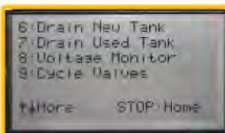


Press **6** MNO to drain the **New Fluid Tank**. Press **7** QRS to drain the **Used Fluid Tank**. Press **ENTER START RESUME** to begin the process.

The unit will shut off when complete.

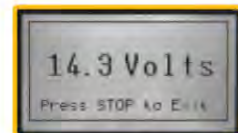


### VOLTAGE MONITOR



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

Press **8** TUV to display the voltage.



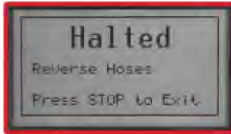



# TSDPS735

## Additional Functions

INLINE or DIPSTICK  
TRANSMISSION & POWER  
STEERING FLUID EXCHANGER

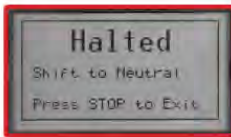
### HALTED: REVERSE HOSES




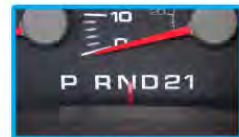
If the exchange stops and the display reads "Reverse Hoses", push or pull the knob on the flow diverter valve to switch directions, and press .



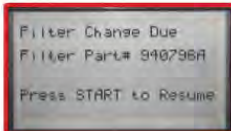
### HALTED: SHIFT TO NEUTRAL



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

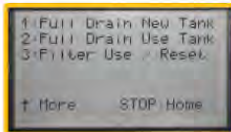



The machine will indicate when the canister filters need to be replaced. Use a standard filter band clamp tool to unscrew old filters, and replace them with new filters. Make sure new filters are on tight.





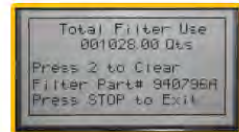
**IMPORTANT:** Machine must be primed after filter change.

### TOTAL FILTER USE

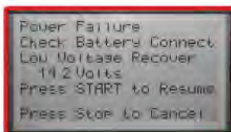


From the Main Menu, press  twice.


Press  to display the total filter use. Press  to reset.



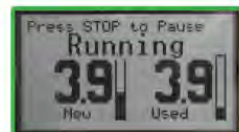
### POWER FAILURE MEMORY



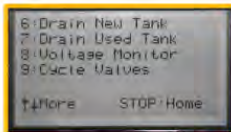
If there is a power failure during a transmission fluid exchange, the procedure can be continued seamlessly.

Simply reconnect the battery cables, and press .


The exchange will resume where it left off.

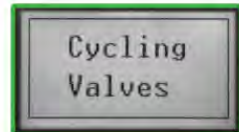


### CYCLE VALVES



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

Press  to cycle the valves.





# 735 SERIES

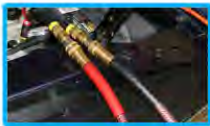
## Cleaning Feature

HEAVY DUTY AUTOMATIC  
TRANSMISSION & POWER  
STEERING FLUID EXCHANGERS

### INLINE Exchange

#### CLEANING OPERATION

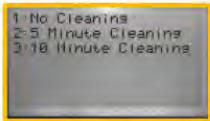
If selected, the cleaning feature will delay the start of the flush to allow cleaning chemicals time to circulate prior to flushing.



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

**NOTE:** This machine is fully interactive. Always follow the on-screen instructions.

Use the arrow keys to select the desired amount to be exchanged.



Press to proceed.

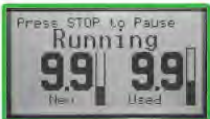
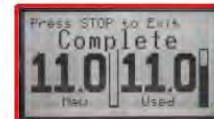
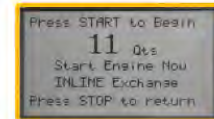
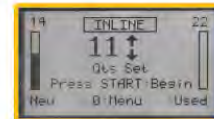
Press for No Cleaning, for 5 Minute Cleaning, or for

10 Minute Cleaning.

Press to begin exchange.

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

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



### DIPSTICK Exchange (TSD & TSDPS Only)

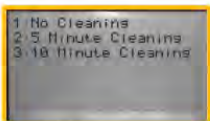
#### CLEANING OPERATION



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.

**NOTE:** This machine is fully interactive. Always follow the on-screen instructions.

Use the arrow keys to select the desired amount to be exchanged.



Press to proceed.

Press for No Cleaning, for 5 Minute Cleaning, or for

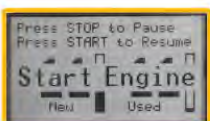
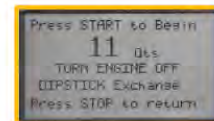
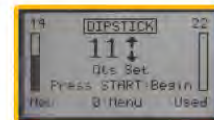
10 Minute Cleaning.

Press to begin exchange.

**When cleaning process is complete, shut off engine and press to continue!**

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

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



## IV. HOSES & ADAPTERS

### 4.01 ADAPTER HOSES

#### STANDARD HOSES



**941801- Hose #51**  
(Mates with #52)

-Green- 5/8"-18 [F]  
SAE 45° Flare - Swivel  
(Chrysler - 1993 and Newer)



**941802- Hose #52**  
(Mates with #51)

-Green- 5/8"-18 [M]  
SAE 45° Flare  
(Chrysler)



**941803- Hose #53**  
(Mates with #57)

-Blue- 5/8"-18 [M]  
SAE 45° Flare - Swivel  
(General Motors with 3/8" Tube Diameter Lines - All Years)



**941805- Hose #55**  
(Mates with Step Fitting)

-Black- 3/8" Diameter Hose [F]  
Open End Hose w/Clamp  
(Import - 1987 and Newer)



**941807- Hose #57**  
(Mates with #53)

-Blue- 5/8"-18 [F]  
SAE 45° Inverted  
(General Motors with 3/8" Tube Diameter Lines - 1997 and Newer)



**941809- Hose #59**  
(Mates with Step Fitting)

-Black- 1/2" Diameter Hose [F]  
Open End Hose w/Clamp  
(Import)



**941813- Hose #63**  
(Mates with Step Fitting)

-Black- 5/16" Diameter Hose [F]  
Open End Hose w/Clamp  
(Import)



**941815- Hose #65**  
(Mates with #75)

-Green- 1/4"-18 [M]  
NPTF  
(Jeep Cherokee- 1980-1986)



**941816- Hose #66**  
(Mates with #67)













-Red- 1/2"-20 [F]  
SAE 45° Inverted  
(Chrysler, Ford Aerostar, Jaguar, Mercedes, & Cadillac-1985 and Newer) \* Needs Ford Slide Tool 940140 for Aerostar / Windstar



**941817- Hose #67**  
(Mates with #66)

-Red- 1/2"-20 [M]  
SAE 45°  
(Chrysler and Ford)



|   |         |  |
|---|---------|--|
|    | -Red-   | 5/8"-18 [M]<br>SAE Inverted - Swivel<br><i>(Ford With Large Nut Adapter - 1980 and Newer)</i>                  |
| <b>941818- Hose #68</b><br><i>(Mates with #69)</i>                                  |         |  |
|    | -Red-   | 5/8"-18 [F]<br>SAE Inverted<br><i>(Ford)</i>   |
| <b>941819- Hose #69</b><br><i>(Mates with #68)</i>                                  |         |  |
|    | -Blue-  | 1/2"-20 [M]<br>SAE 90° Inverted - Swivel<br><i>(General Motors with 5/16" Tube Diameter Lines - All Years)</i> |
| <b>941820- Hose #70</b><br><i>(Mates with #71)</i>                                  |         |  |
|    | -Blue-  | 1/2"-20 [F]<br>SAE Inverted<br><i>(General Motors &amp; Ford Expedition)</i>                                   |
| <b>941821- Hose #71</b><br><i>(Mates with #70)</i>                                  |         |  |
|    | -Red-   | 1/2"-20 [F]<br>SAE Inverted<br><i>(Ford)</i>   |
| <b>941822- Hose #72</b><br><i>(Mates with #73)</i>                                  |         |  |
|    | -Red-   | 1/2"-20 [M]<br>SAE 90° Inverted - Swivel<br><i>(Ford 5/16" Small / Long Nut Adapter - 1980 and Newer)</i>      |
| <b>941823- Hose #73</b><br><i>(Mates with #72)</i>                                  |         |  |
|  | -Green- | M14 x 1.5 [F]<br>Swivel O-ring<br><i>(Jeep Cherokee, Ford Escort - 1980-1986)</i>                              |
| <b>941825- Hose #75</b><br><i>(Mates with #65)</i>                                  |         |  |
|  | -Red-   | M14 [F]<br>Banjo Fitting<br><i>(Ford Escort – 1994 and Newer)</i>  |
| <b>940874- Hose #78</b><br><i>(Mates with #79)</i>                                  |         |  |
|  | -Red-   | M14 x 1.5 [M]<br>Bolt w/ 2 Washers<br><i>(Ford Escort - 1994 and Newer)</i>                                    |
| <b>940875- Hose #79</b><br><i>(Mates with #78)</i>                                  |         |  |
|  | -Black- | 1/4" [M]<br>Universal Bump Fitting<br><i>(Import)</i>  |
| <b>941828- Hose #80</b><br><i>(Mates with #81)</i>                                  |         |  |
|  | -Black- | 1/4" Diameter Hose [F]<br>Open End Hose w/Clamp<br><i>(Import)</i>   |
| <b>941829- Hose #81</b><br><i>(Mates with #80)</i>                                  |         |  |
|  | -Black- | 5/16" [M]<br>Universal Bump Fitting<br><i>(Infiniti, Lexus, and BMW - 1980 and Newer)</i>                      |
| <b>941830- Hose #82</b><br><i>(Mates with #63)</i>                                  |         |  |

- 

**941831- Hose #83**  
(Mates with #55)

-Black- 3/8" [M]  
Universal Bump Fitting  
(Toyota, Nissan, Honda, Ford and Chrysler - 1975 and Newer)
- 

**941832- Hose #84**  
(Mates with #59)

-Black- 1/2" [M]  
Universal Bump Fitting  
(Toyota, Nissan and Honda - 1980 and Newer)
- 

**941835- Hose #87**  
(Mates with #88)

-Green- 9/16"-18 [M]  
JIC 37° Flare - Inverted  
(Dodge Durango/Dakota - All Years)
- 

**941836- Hose #88**  
(Mates with #87)

-Green- 9/16"-18 [F]  
JIC 37° Flare - Swivel  
(Dodge Durango/Dakota - All Years)
- 

**941841- Hose #89**  
(Mates with #90)

-Black- 3/4"-16 [M]  
SAE O-Ring  
(Chevy DuraMax w/Allison Transmission – 2001 & Newer)
- 

**941842- Hose #90**  
(Mates with #89)

-Black- 3/4"-16 [F]  
SAE O-Ring Adapter  
(Chevy DuraMax w/Allison Transmission – 2001 & Newer)
- 

**941960- Hose #91**  
(Mates with #92)

-Red- 3/4"-18 [M]  
  
(Ford F-250 & F-350 w/ Torqueshift Transmission)
- 

**941961- Hose #92**  
(Mates with #91)

-Red- 3/4"-18 [F]  
  
(Ford F-250 & F-350 w/ Torqueshift Transmission)
- 

**941080- Hose #93**  
(Mates with #94)

-Red- 5/8-18 [M]  
(Ford Focus / Mercury Mystique)
- 

**941081- Hose #94**  
(Mates with #93)

-Red- 5/8-18 [F]  
(Ford Focus / Mercury Mystique)
- 

**940388- Hose #124**  
(Mates with #142)

-Yellow- 3/4"-18 [M]  
90° Inverted SAE 45° - Swivel  
(Ford Torqshift / 250SD / 550SD / Econoline / Excursion)
- 

**940389- Hose #142**  
(Mates with #124)

-Yellow- 3/4"-18 [F]  
Inverted SAE 45° Rigid - Straight  
(Ford Torqshift / 250SD / 550SD / Econoline / Excursion)
- 

**941900- Hose #149**  
(Mates with 5/8" Adapter)

-Yellow- 5/8" Diameter Hose [F]  
Open End Hose w/Clamp  
(Chevy DuraMax w/Allison Transmission - 2003 & Newer)



941178  
(TSPS & TSDPS Only)

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

**ALLISON HOSES (Optional)**

 - Yellow- #16 PTT Thread  
941844- Hose #134 [Male]  
(Mates with #135)


 - Yellow- #16 PTT 30° Swivel  
941845- Hose #135 [Female]  
(Mates with #134)

 - Yellow- #12 SAE  
941846- Hose #136 [Male]  
(Mates with #137)


 - Yellow- #12 SAE  
941847- Hose #137 [Female]  
(Mates with #136)


 - Yellow- #16 JIC  
941848- Hose #138 [Female]  
(Mates with #139)

 - Yellow- #16 JIC  
941849- Hose #139 [Male]  
(Mates with #138)


 - Yellow- #10 JIC  
941850- Hose #140 [Female]  
(Mates with #141)


 - Yellow- #10 JIC  
941851- Hose #141 [Male]  
(Mates with #140)


 #12 ORFS  
941893- Fitting [Male]  
(Mates with #143)


 - Yellow- #12 ORFS  
941894- Hose #143 [Female]  
(Mates with 941893 Fitting)

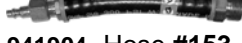
 - Yellow- #12 JIC  
941895- Hose #144 [Male]  
(Mates with #145)

- 

**941896- Hose #145**  
(Mates with #144)      -Yellow- **#12 JIC Swivel**  
[Female]
- 

**941897- Hose #146**  
(Mates with #147)      -Yellow- **1 1/16-1 w/ O-Ring**  
[Female]
- 












**941898- Hose #147**  
(Mates with #146)      -Yellow- **1 1/16-1 Flat Face**  
[Male]
- 

**941903- Hose #152**  
(Mates with #153)      -Yellow- **#10 ORFS**  
[Female]
- 

**941904- Hose #153**  
(Mates with #152)      -Yellow- **#10 ORFS**  
[Male]

## 4.02 ADAPTERS

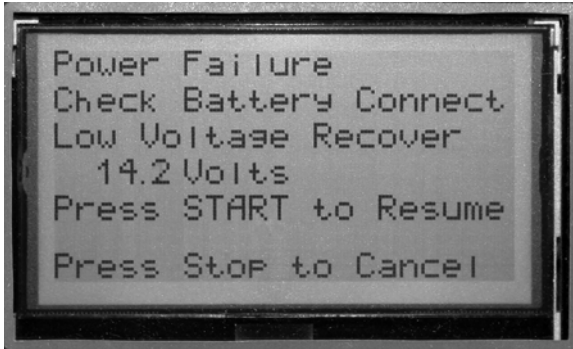
The following adapters allow quick and easy hookup to virtually any vehicle make and model.

- |  |   |   |   |
|--|---|---|---|
|  <p><b>940328</b><br/>1/2" Adapter</p>      |  <p><b>942163S</b><br/>GM Adapter</p>            |  <p><b>942162</b><br/>Quick Disconnect Tool</p>          |  <p><b>941899</b><br/>5/8" Duramax Adapter</p> |
|  <p><b>940329</b><br/>3/8" Adapter</p>      |  <p><b>940334</b><br/>5/16" Adapter</p>          |   |   |
|  <p><b>941910</b><br/>3/8" Ford Adapter</p> |  <p><b>942169</b><br/>1/2" Medium GM Adapter</p> |   |   |
|  <p><b>941923</b><br/>1/2" Adapter</p>      |  <p><b>941925</b><br/>3/8" Adapter</p>           |  <p><b>941966</b><br/>Slider Pin Adapter (Optional)</p> |   |

## V. TROUBLESHOOTING & MAINTENANCE

### COMMON PROBLEMS / SOLUTIONS

**Problem:** "Power Failure" screen displays

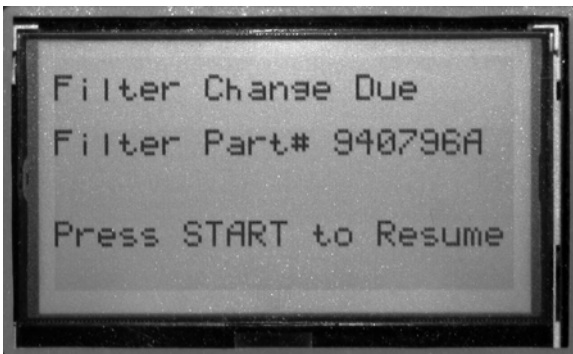


**Solution 1:** Check battery connection. Make sure there are no loose connections, and the machine's battery clips are not reversed. Remove all corrosion from the battery terminals. Make sure vehicle's A/C system is turned off.

**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.

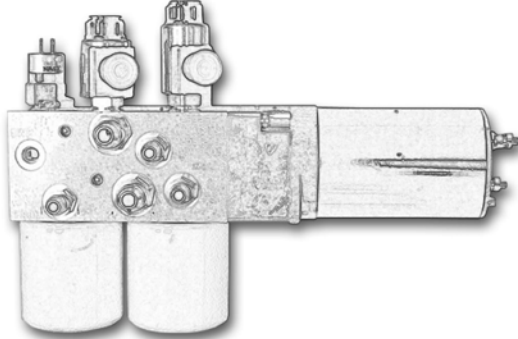
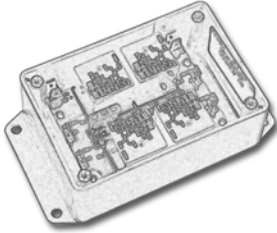


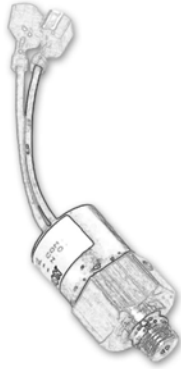


## VI. ORDERING REPLACEMENT PARTS

### REPLACEMENT PART LIST



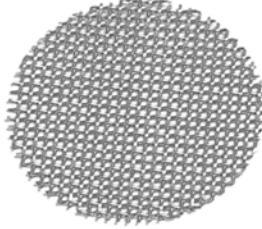
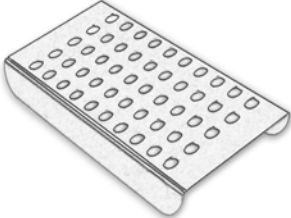


| Part #         | Description   |
|----------------|---|
| <b>943083W</b> | Control Panel w/ Elec. Board & Label <i>(TSPS)</i>        |
| <b>943082W</b> | Control Panel w/ Elec. Board & Label <i>(TSD)</i>         |
| <b>943081W</b> | Control Panel w/ Elec. Board & Label <i>(TS)</i>          |
| <b>943080W</b> | Control Panel w/ Elec. Board & Label <i>(TSDPS)</i>       |
| <b>940307</b>  | Battery Cable Assembly                                    |
| <b>941617W</b> | Motor Control Box   |
| <b>940469</b>  | Sensor Rod  |
| <b>941613</b>  | 27 1/2" Fluid Tube  |
| <b>941226</b>  | Fluid Tube Elbow Fitting                                  |
| <b>940551</b>  | PSX Fill Pump <i>(TSPS &amp; TSDPS Only)</i>              |
| <b>940468</b>  | Manifold/Pump Assembly                                    |
| <b>940843</b>  | Pressure Switch <i>(Factory preset to 6 psi)</i>          |
| <b>940839</b>  | 3/2 Solenoid Valve <i>[Short] (S2)</i>                    |
| <b>940840</b>  | 3/2 Solenoid Valve <i>[Tall] (S1)</i>                     |
| <b>940841</b>  | Coil with Spade Connector <i>[Short] (S2)</i>             |
| <b>940842</b>  | Coil with Spade Connector <i>[Tall] (S1)</i>              |
| <b>R940775</b> | Standard Hose Kit   |
| <b>941168</b>  | Allison Hose Kit <i>(Optional)</i>                        |
| <b>P940927</b> | Hose Tray   |
| <b>941220</b>  | Optional Hose Rack  |
| <b>R940985</b> | Internal Hose Kit <i>(TS)</i>                             |
| <b>R941171</b> | Internal Hose Kit <i>(TSPS)</i>                           |
| <b>R942094</b> | Internal Hose Kit <i>(TSD)</i>                            |
| <b>943069</b>  | Internal Hose Kit <i>(TSDPS)</i>                          |
| <b>940831</b>  | Master Hose Connector                                     |
| <b>940785</b>  | Service Hose Black  |
| <b>940786</b>  | Service Hose Red  |
| <b>940787</b>  | Service Hose PSX Black <i>(TSPS)</i>                      |
| <b>940788</b>  | Service Hose PSX Red <i>(TSPS &amp; TSDPS)</i>            |
| <b>941178</b>  | 12" Tube w/ Air Nipple <i>(TSPS &amp; TSDPS)</i>          |
| <b>940834</b>  | PSX Pendant Assembly <i>(TSPS &amp; TSDPS)</i>            |
| <b>R940663</b> | PSX Pendant Switch <i>(TSPS &amp; TSDPS)</i>              |
| <b>940922</b>  | PSX Dock Magnet Assembly <i>(TSPS &amp; TSDPS)</i>        |
| <b>940913</b>  | New Power Steering Fluid Bottle <i>(TSPS &amp; TSDPS)</i> |
| <b>941716W</b> | Dipstick Manifold Assembly <i>(TSD &amp; TSDPS)</i>       |

|                |   |
|----------------|---|
| <b>941728</b>  | Gray Service Hose ( <i>TSD &amp; TSDPS</i> )              |
| <b>941099</b>  | Diverter Valve  |
| <b>941708</b>  | Dipstick Reducer ( <i>TSD &amp; TSDPS</i> )               |
| <b>R940557</b> | 5/16" x 6' Poly Tube ( <i>TSD &amp; TSDPS</i> )           |
| <b>943087</b>  | Console   |
| <b>943086</b>  | Top   |
| <b>943085</b>  | Waste Fluid Tank  |
| <b>943084</b>  | New Fluid Tank  |
| <b>941603</b>  | Chassis   |
| <b>943079</b>  | Service Panel Label                                       |
|                |   |
| <b>R942118</b> | Locking Caster Wheel                                      |
| <b>R942137</b> | Caster Wheel  |
|                |   |
| <b>940905</b>  | Vinyl Mat   |
| <b>940796A</b> | Canister Filter   |
| <b>R942150</b> | Used Fluid Screen ( <i>1 1/4" Diameter</i> )              |
|                |   |
| <b>941921</b>  | Universal Standard Adapter Hose Chart                     |
| <b>943078</b>  | Operations Manual   |
| <b>943074</b>  | Quick Start & Add'l Functions Bundle Set ( <i>TSDPS</i> ) |
| <b>943075</b>  | Quick Start & Add'l Functions Bundle Set ( <i>TS</i> )    |
| <b>943076</b>  | Quick Start & Add'l Functions Bundle Set ( <i>TSD</i> )   |
| <b>943077</b>  | Quick Start & Add'l Functions Bundle Set ( <i>TSPS</i> )  |
| <b>943068</b>  | Cleaning Feature Universal Quick Start Supplement         |
| <b>940844</b>  | Adapter Instruction Sheet                                 |

## REPLACEMENT PART ILLUSTRATIONS

|  |   |   |
|--|---|---|
|  <p><b>940468</b><br/>Manifold / Pump Assembly</p> |   |   |
|  <p><b>941617W</b><br/>Motor Control Board</p>     |  <p><b>940469</b><br/>Sensor Rod</p>  |  <p><b>941613</b><br/>27 1/2" Fluid Tube<br/><b>941226</b><br/>Fluid Tube Elbow Fitting</p> |
|  <p><b>940843</b><br/>Pressure Switch</p>         |  <p><b>940839</b><br/>3/2 Solenoid Valve [Short] (S2)<br/><b>940840</b><br/>3/2 Solenoid Valve [Tall] (S1)</p> |  <p><b>940841 or 940842</b><br/>Coil with Spade Connector<br/>Short (S2) or Tall (S1)</p>  |



|   |   |   |
|---|---|---|
|  <p><b>940905</b><br/><i>Vinyl Mat</i></p>   |  <p><b>940796A</b><br/><i>Canister Filter</i></p>  |  <p><b>R942150</b><br/><i>Used Fluid Screen</i></p>    |
|  <p><b>P940927</b><br/><i>Hose Tray</i></p> |  <p><b>R942137</b><br/><i>Caster</i></p> <p><b>R942118</b><br/><i>Locking Caster</i></p> |  <p><b>940831</b><br/><i>Master Hose Connector</i></p> |

## ORDERING INFORMATION

To order replacement parts for the Flo-Dynamics 735 SERIES, call:

**1-800-303-5874**

## LIMITED ONE (1) YEAR WARRANTY

### Flo-Dynamics 735 SERIES

Flo-Dynamics 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.

