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Operations Manual

Printed in the U.S.A. for Shift-Rite ®



Congratulations on the purchase of your Flo-Dynamics TSD440 automatic transmission fluid exchanging machine!

Simply put, this machine is the cleanest, safest, easiest, fastest, most thorough, and most costefficient method of fluid exchange ever devised. Suddenly, regular automatic transmission maintenance becomes a more realistic proposition. With the TSD440, you can exchange the transmission fluid through the vehicle's dipstick, making the exchange 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 TSD440 exchanges the used transmission fluid to new, without even requiring the transmission pan to be dropped. There is no spillage, and no mess.

- The TSD440 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 TSD440 hooks up directly to the vehicle's dipstick.
- The ATF fluid exchange, from setup to finish, typically takes 11 minutes or less!

No wonder an ATF exchange is the most requested method of preventative automatic transmission maintenance today.

Please take time to read through this manual to familiarize yourself with the TSD440 before performing your first ATF exchange.

I. SAFETY INFORMATION

1.01 IMPORTANT SAFETY NOTICE

For your safety, read this manual thoroughly before operating your TSD440 unit. Your TSD440 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 TSD440, 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 TSD440 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

Operations Manual



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.



(A WARNING



Improper use and operation.

- Read, understand and follow all safety messages and operational procedures in this manual before operating the Flo-Dynamics TSD440.
- 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.



A 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 TSD440 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. Only use the battery of the vehicle being serviced! Power sources 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 eves 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.



A 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
- "Appendix C 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 TSD440. 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 TSD440 is not designed for any other purpose than the exchanging of automatic transmission and power steering fluid.

Operation of your TSD440 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 Flo-Dynamics TSD440 is fully automatic. Refer to your control panel at all times.
- Never pull on the power cables or service hoses to transport the TSD440. 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.
- 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 6-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 (+/- 3%)
- Digital counter display with cumulative ATF options
- Indicating lamps are activated to show all machine operations and status functions
- Four capacity selections on machine to automatically pump specified quantity of ATF into transmission (capacities: 8, 12, 16 or 20 quarts)
- Select Plus feature allows you to select any quantity between 8 and 20 quarts.
- Fluid measurements can be changed from quarts to liters
- Drain used fluid tank (no need to tip machine upside-down)
- Drain new fluid tank
- 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 options menu:
 - "Auto Prime" feature automatically primes the system
 - Indicate new fluid volume
 - Indicate used fluid capacity

2.02 DIMENSIONS & TECHNICAL SPECIFICATIONS

DIMENSIONS:

40" Tall 24 3/4" Wide 25" Deep

Service Hoses:

10' outside of machine

Wheels:

6" locking casters (front) 6" casters (back)

Fluid Tanks:

24-Quart New Fluid Tank 24-Quart Used Fluid Tank

Weight:

95 lbs

TECHNICAL SPECIFICATIONS:

Power:

12-Volt DC from vehicle battery

Fluid Sensors:

+/- 3% accurate sensors

Filters:

22-micron absolute fluid filters

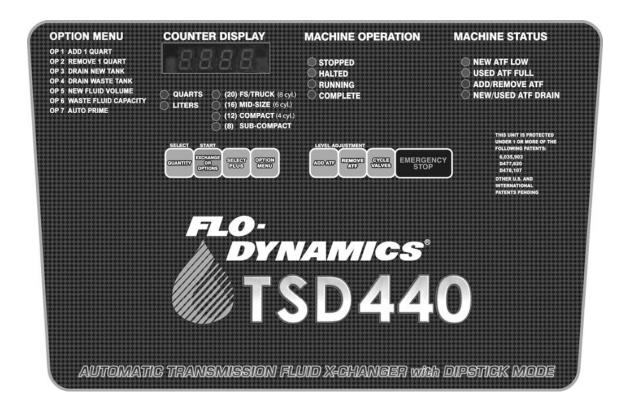
Operating Temperature:

60° to 150°F (15° to 65°C)

2.03 MACHINE OVERVIEW



2.04 CONTROL PANEL OVERVIEW



OPTION MENU

Option:	Function:
OP 1 – ADD 1 QUART	Quickly adds fluid; Used for filling the pan.
OP 2 – REMOVE 1 QUART	Quickly drains fluid; Used for draining the pan.
OP 3 – DRAIN NEW TANK	Allows operator to drain the fluid from the new fluid tank.
OP 4 – DRAIN WASTE TANK	Allows operator to drain the fluid from the waste fluid tank.
OP 5 – NEW FLUID VOLUME	Indicates exactly how much fluid is in the new fluid tank.
OP 6 – WASTE FLUID CAPACITY	Indicates the remaining capacity of the waste fluid tank.
OP 7 – AUTO PRIME	Automatically purges any air out of the system.

BUTTONS

Function: **Button:**

QUANTITY Allows operator to choose one of four

different exchange volumes.

START / EXCHANGE Starts an exchange at the amount selected. or OPTIONS

Also activates options when selected in the

option menu.

SELECT PLUS Increases 1 quart from selected preset

quantity each time pressed.

OPTION MENU Scrolls through options.

ADD ATF Adds 2/10 qt. of new ATF to the vehicle.

(approx. 1/8" on the dipstick)

REMOVE ATF Removes 2/10 qt. of ATF from the vehicle.

(approx. 1/8" on the dipstick)

CYCLE VALVES Allows operator to manually cycle both valves.

STOP Stops operations.

MACHINE OPERATION (LED lights)

Light: Indication:

STOPPED The machine is stopped.

HALTED The machine has halted operation.

RUNNING The machine is running.

COMPLETE The exchange is complete.

MACHINE STATUS (LED lights)

Indication: Light:

NEW ATF LOW There is not enough fluid in the new fluid tank

to complete the quantity selected.

USED ATF FULL The waste fluid tank does not have enough

remaining capacity to complete the exchange.

ADD / REMOVE ATF The operator is either adding or removing ATF.

NEW / USED ATF DRAIN One of the tanks is being drained.

2.05 SPECIAL FUNCTIONS

A DANGER











- Wear safety goggles and protective clothing, user and bystander.
- 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.
- Avoid contact with automatic transmission or power steering fluid.
- Dispose of used fluid according to environmental laws and regulations.
- Read, understand and follow Safety Instructions in the front pages of this manual and on product safety labels.

• TOTALIZER CHECK

Hold "STOP" button for approximately 5 seconds.

The control panel will first display a dash with up to a 3 digit number. This number indicates how many times the totalizer has rolled over at 9999 quarts/liters. After a short delay, the total amount of fluid used since last rollover will be displayed in quarts/liters.

COMPLETELY DRAIN TANKS

By draining the tanks using Options 3 and 4, a small amount of fluid is left in the tanks. To empty ALL the fluid, select either Option 3 or 4 by repeatedly pressing the "OPTIONS" button. Press and hold the "START" button for 13 seconds, until tank begins to drain. The pump will continue to run until the "STOP" button is pressed.

NOTE: After tanks are completely drained, the system must be primed again before another exchange is performed.

SENSOR CHECK

This feature allows you to test the accuracy of the new and used fluid sensors.

- Press and hold the "OPTIONS" button for at least 6 seconds, until you hear an audible beep.
- 2. Scroll through the options menu by repeatedly pressing the "OPTIONS" button, until "OP 8" shows on the display, followed by a number.
- **3.** Reset this number to zero by pressing the "START" button.
- **4.** Pour 1 quart of ATF fluid into the new fluid reservoir, and record the number that shows up on the display.
- 5. Scroll through the options menu until "OP 9" shows on the display, followed by a number.
- **6.** Reset this number to zero by pressing the "START" button. Remove the used fluid screen located in the bottom of the recessed hose tray compartment.
- 7. Pour 1 quart of ATF fluid into the used fluid reservoir, and record the number that shows up on the display.
- **8.** If the difference between the new and used fluid sensor values is less than 3, the sensors are within tolerance.
- **9.** If the difference between the new and used fluid sensor values is greater than 3, repeat steps 1 8.
- **10.** If the difference between the values is still greater than 3, refer to *Appendix C Replacement Parts* to order a new board.

NOTE: After tanks are completely drained, the system must be primed again before another exchange is performed.

III. OPERATING PROCEDURES

A CAUTION







- Use this equipment only as described in this manual. Use only the manufacturer's recommended attachments.
- Care should be taken to arrange the battery cables and service hoses so that they will not be tripped over or pulled.
- The TSD440 is fully automatic. Refer to your control panel at all times.
- •Flushing high mileage cars that have not been previously serviced can cause operating problems in the transmission.
- Never pull on the power cables or service hoses to transport the TSD440. Damage may occur to these components, or machine may tip over.
- Servicing, transporting, or storing this machine in an attitude other than the normal operating position can result in fluid spillage and/or component damage.
- 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.

A DANGER



- Vent vehicle's exhaust away from work area.
- Do not breathe exhaust.
- Read, understand and follow Safety Instructions in the front pages of this manual and on product safety labels.

A WARNING













- Do not operate the TSD440 in the vicinity of open containers of flammable liquids such as gasoline.
- This machine is equipped to operate on 12-volt DC power only.
- 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.
- Keep yourself, clothing, battery cables and service hoses clear of moving parts such as fan blades, belts and pulleys.
- Unless instructed otherwise, set parking brake and put gear selector in park.
- Do not leave a running vehicle unattended.
- 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.

3.01 TRANSMISSION FLUID EXCHANGE

IMPORTANT

Turn vehicle's A/C system OFF before starting an exchange. New transmission fluid MUST be 65°F or above for optimal performance.

<u>NOTE</u>: This machine is fully automatic. Refer to your control panel at all times. Read and understand safety warnings on back of this sheet, hose chart, and machine.

PRIMING THE SYSTEM (The system must be primed before first use and immediately following a filter change):

- 1. Connect RED hose to fitting on left side of machine (Figure 1).
- 2. Have a minimum of 3 quarts of new ATF fluid in the machine.
- 3. Select "AUTO PRIME" (Option 7) by continually pressing the "OPTION MENU" button until OP 7 is displayed. Press "START". The system will prime, and is then ready to begin an exchange.

BASIC OPERATION:

Setup/Operation-

- 1. Using the "QUANTITY" button, select the amount of fluid required for the particular vehicle (refer to vehicle's owner's manual).
- 2. Pressing the select plus button will increase the quantity by one quart at a time (Example: To perform a 13 quart exchange, set the machine to 12 quarts and touch the "SELECT PLUS" button once).
- Connect RED Service Hose to manifold adapter fitting with red markings; Connect GREY Service Hose to adapter without red marking.
- 4. Insert hose down ATF dipstick tube, about the same length as the OE dipstick (Figure 2).
- 5. With the engine off, press the green "EXCHANGE" button.
- 6. Machine will run and prompt you to start the vehicle's engine. LCD will display "Car".
- 7. Start the vehicle's engine and press "EXCHANGE".
- 8. When finished, LED will display amount of ATF selected and complete light will be on.
- 9. Check fluid level, add or remove fluid as needed. "ADD ATF" or "REMOVE ATF" buttons will add or remove fluid in 2/10 quart increments (1/8" on the dipstick). Options 1 and 2 will add or remove fluid in 1 quart increments.
- If NEW ATF LOW light comes on, fill the new fluid tank.
- If USED ATF FULL light comes on, drain the waste fluid tank.



Figure 1



Figure 2

DRAINING THE WASTE ATF FLUID

With the battery cables connected to the vehicle's battery, connect an open-end hose (941288) to the **RED** service hose. Place this hose in your waste fluid receptacle and then select "DRAIN WASTE TANK" (Option 4).



IMPORTANT

- Dispose of used fluid according to environmental laws and regulations.
- Read, understand and follow Safety Instructions in the front pages of this manual and on product safety labels.

IV. TROUBLESHOOTING & ADDITIONAL HELP

A DANGER



- Vent vehicle's exhaust away from work area.
- Do not breathe exhaust.
- Read, understand and follow Safety Instructions in the front pages of this manual and on product safety labels.

WARNING











- Wear safety goggles and protective clothing, user and bystander.
- Do not operate the TSD440 in the vicinity of open containers of flammable liquids such as gasoline.
- This machine is equipped to operate on 12-volt DC power only.
- 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.
- Keep yourself, clothing, battery cables and service hoses clear of hot or moving engine parts such as fan blades, belts and pulleys.
- 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.
- Tighten all connections properly. Insufficient or excessive torque can result in fluid leakage.
- Read, understand and follow Safety Instructions in the front pages of this manual and on product safety labels.

A CAUTION





- · Wear safety goggles and protective clothing, user and bystander.
- Avoid contact with automatic transmission fluid.
- Read, understand and follow Safety Instructions in the front pages of this manual and on product safety labels.

A 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.

4.01 COMMON PROBLEMS / SOLUTIONS

Problem: System does not power up, operates erratically or display reads "Low E". Solution: 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.

Problem: Either new or waste fluid tank will not drain.

Solution: Make sure tanks are being drained through the RED service hose.

Problem: Machine operation becomes slow.

Solution: Make sure fluid temperature is at least 65°F. If machine is still slow, replace filters.

Problem: Machine stops after starting an exchange.

Solution: Make sure system has been primed, and new transmission fluid is at least 65°F.

Problem: After starting an exchange, the machine powers off.

Solution 1: The fuse is blown. Disconnect the battery cables, wait 15 seconds, and then

re-connect to reset the fuse.

Solution 2: If the fuse blows again, replace the filters and try again.

4.02 CUSTOMER SERVICE CONTACT INFORMATION

If you are still experiencing problems, call technical support at:

1-800-303-5874

V. APPENDIX A – MAINTENANCE

NOTE: The Flo-Dynamics TSD440 requires a minimal amount of maintenance.

A 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.

5.01 MAINTENANCE PROCEDURES

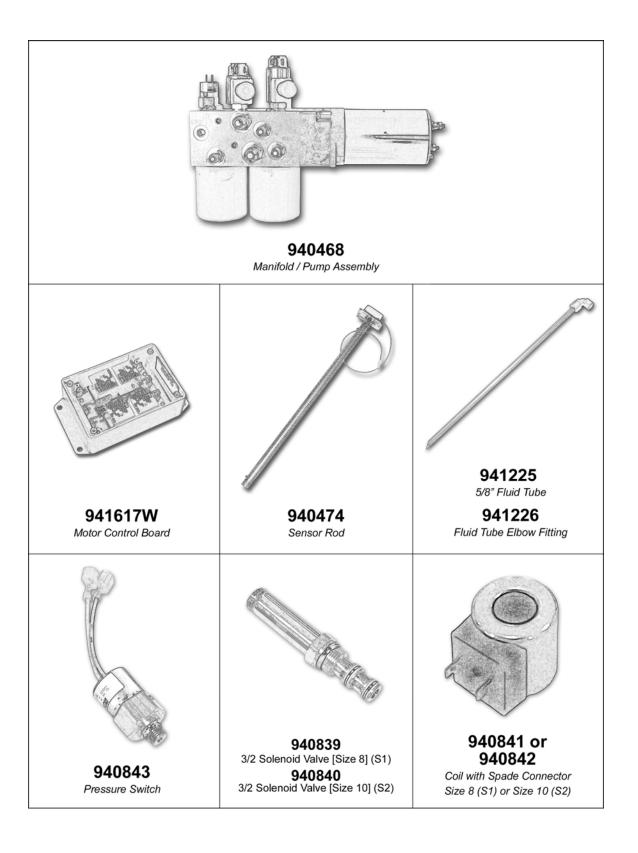
- Replace Canister Filters (Part#: 940796) every 50 exchanges, or as needed Use a standard filter band clamp tool to unscrew old filters, and replace them with new filters. Make sure new filters are on tight.
- Clean Waste Fluid Screen (Located in bottom of recessed hose tray area)
 This helps eliminate 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.
- Wipe Down Exterior using a soft, damp cloth.

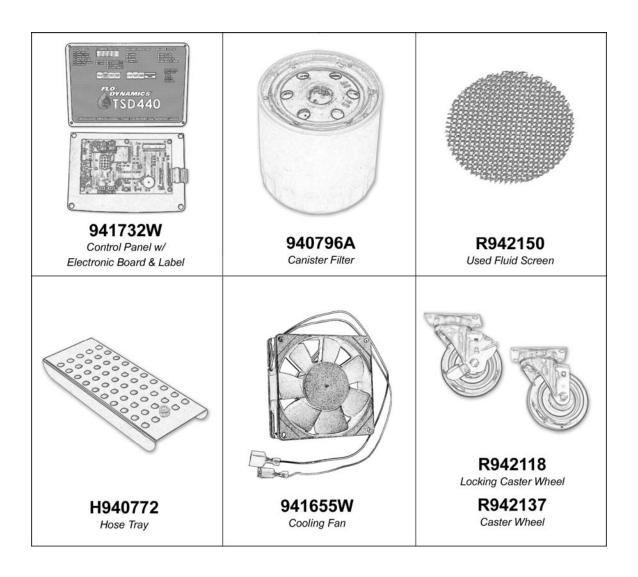
VI. APPENDIX B - REPLACEMENT PARTS

6.01 REPLACEMENT PART LIST

Part #	# Description				
941732W	Control Panel w/ Elec. Board & Label				
940304	Battery Cable Assembly				
941617W	Sensor Control Box				
940474	Sensor Rod				
941225	5/8" Fluid Tube				
941226	Fluid Tube Elbow Fitting				
940468	Manifold / Pump Assembly				
940843	Pressure Switch (Factory preset to 6 psi)				
940839	3/2 Solenoid Valve [Size 8] (S1)				
940840	3/2 Solenoid Valve [Size 10] (S2)				
940841	Coil with Spade Connector [Size 8] (S1)				
940842	Coil with Spade Connector [Size 10] (S2)				
940786	Service Hose (Red)				
941728	Service Hose (Grey)				
941716W	Adapter Manifold Assembly				
941708	Dipstick Reducer Hose				
P941725	Shepherd's Hook				
R940750	Chassis				
941205	Console				
R940752	Top Sink				
942113	Tank Cap				
941202	Tank Red New				
941203	Tank Red Used				
941733	Service Panel Label				
R942118	Locking Caster Wheel				
R942137	Caster Wheel				
940796A	Canister Filter				
R942150	Used Fluid Screen (1 1/4" Diameter)				
941734	Operations Manual				
941737	Operational Overview / Hose Chart				

6.02 REPLACEMENT PART ILLUSTRATIONS





6.03 ORDERING INFORMATION

To order replacement parts for the Flo-Dynamics TSD440, call:

1-800-303-5874

LIMITED ONE (1) YEAR WARRANTY

Flo-Dynamics TSD440

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.