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Flo-Dynamics TF-040425 Automatic Transmission Fluid Exchanging Machine



Product Information

Specifications

• Brand: Flo-Dynamics

• Model: TSD450

• Type: Automatic Transmission Fluid Exchanging Machine

 Recommended Service Interval: Every 15,000 miles or as per vehicle owner's manual

• **Features:** Cleanest, safest, easiest, fastest, most thorough, and a cost-efficient method of fluid exchange

Product Usage Instructions

Introduction

Congratulations on your purchase of the Flo-Dynamics TSD450 automatic transmission

fluid exchanging machine. This machine offers a clean, safe, and efficient method for exchanging transmission fluid.

Transmission Fluid Exchange

- To ensure optimal protection for internal transmission components and extend the transmission's lifespan, it is recommended to service the lubrication system every 15,000 miles or as advised in the vehicle owner's manual.
- The TSD450 exchanges almost all used transmission fluid with new fluid without the need to drop the transmission pan, resulting in a spill-free process.

Getting Started

 Before performing your first ATF exchange, familiarize yourself with the TSD450 by reading through this manual thoroughly.

Operating Procedures

 Refer to Section 3 of the manual for detailed operating procedures, including suggested additional tools, transmission fluid exchange steps, and additional instructions.

Troubleshooting & Maintenance

• For any issues or maintenance requirements, consult Section 5 of the manual for troubleshooting tips and maintenance procedures.

Replacement Parts

• If replacement parts are needed, Section 6 provides a list of replacement parts, illustrations, and ordering information.

INTRODUCTION

 Congratulations on the purchase of your Flo-Dynamics TSD450 automatic transmission 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 maintenance becomes a more realistic proposition.
- With the TSD450, you can exchange the transmission fluid either through the transmission cooler lines OR through the vehicle's dipstick. Transmission fluid exchange is cleaner and easier 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 be serviced every 15,000 miles (or according to the vehicle owner's manual). The Flo-Dynamics TSD450 exchanges virtually all of the used transmission fluid for new, without even requiring the transmission pan to be dropped. There is no spillage, and no mess.
- The TSD450 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 TSD450 hooks up directly to one of the vehicle's transmission cooler lines for a transmission fluid exchange or through the dipstick.
- The ATF fluid exchange, from setup to finish, typically takes 15 minutes or less for inline mode, and 10 minutes or less for dipstick mode!
- 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 TSD450 before performing your first ATF exchange.

SAFETY INFORMATION

IMPORTANT SAFETY NOTICE

- For your safety, read this manual thoroughly before operating your TSD450 unit.
- Your TSD450 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 TSD450, 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.
- Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury to the operator or bystanders.
- Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury to the operator or bystanders.
- Indicates a potentially hazardous situation which, if not avoided, may result in moderate or minor injury to the operator or bystanders.
- Indicates a situation which, if not avoided, may result in damage to the TSD450 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

IMPORTANT SAFETY INSTRUCTIONS





Engine exhaust contains toxic gases.

- Vent the vehicle's exhaust away from the work area.
- Do not breathe exhaust.
- Exhaust gases will cause injury or death.

AWARNING



- Improper use and operation.
- Read, understand, and follow all safety messages and operational procedures in this manual before operating the Flo-Dynamics TSD450.
- 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.



- DEngine 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.

AWARNING







Risk of expelling pressurized fluids.

- Wear safety goggles and protective clothing, user and bystander.
- Verify that the engine and machine are off before connecting or disconnecting the 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 an uncontaminated area.
- **Ingestion:** If a large amount is ingested, 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.



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



- The engine has moving parts. Risk of entanglement.
- Do not place tools on fenders or other places in the 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.







Risk of fire or explosion.

- Do not operate the TSD450 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 an explosion can cause injury.











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 the battery, or allow a spark or flame in the vicinity of the battery.
- Clean battery terminals before hooking the machine's battery clips to them. During cleaning, keep airborne corrosion from the 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.
- A battery explosion can cause injury.

AWARNING

- 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 the exposed area with soap and water for 10 minutes.
- While cleaning the battery's terminals, keep airborne corrosion from the eyes, nose, and mouth.
- Do not touch your eyes while working near a battery.
- Battery acid can burn eyes and skin.

AWARNING



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.



- 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 the 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 TSD450. Damage may occur to these components, or the 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 TSD450 is not designed for any other purpose than the exchange of automatic transmission and power steering fluid.
- Operation of your TSD450 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 TSD450 is fully automatic. Refer to your control panel at all times.
- Never pull on the power cables or service hoses to transport the TSD450. 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 the machine or components.

SYSTEM FEATURES & SPECIFICATIONS

FEATURES

Mechanical Features

- Accurate sensor technology allows the optimum fluid level to be maintained in a 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 the 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 20 quarts in 1-quart intervals
- Fluid measurements can be changed from quarts to liters
- Drain used fluid tank (no need to tip the machine upside-down)
- Drain the new fluid tank
- Ability to pause the machine during exchange to change the transmission filter
- Battery backup allows the 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)
- The cycle valve feature allows you to electronically clean out the valves
- Totalizer check (indicates lifetime use)

Interactive menu:

- "Auto Prime" feature automatically primes the system
- Indicate the new fluid volume
- Indicate the used fluid capacity
- Read battery voltage

DIMENSIONS & TECHNICAL SPECIFICATIONS

DIMENSIONS:

- 39" Tall
- 24 3/4" Wide
- 25" Deep
- Service Hoses: 10' outside of machine
- Wheels: 5" locking casters (front), 5" casters (back)
- Weight: 95 lbs

TECHNICAL SPECIFICATIONS:

• Power: 12-Volt DC from vehicle battery

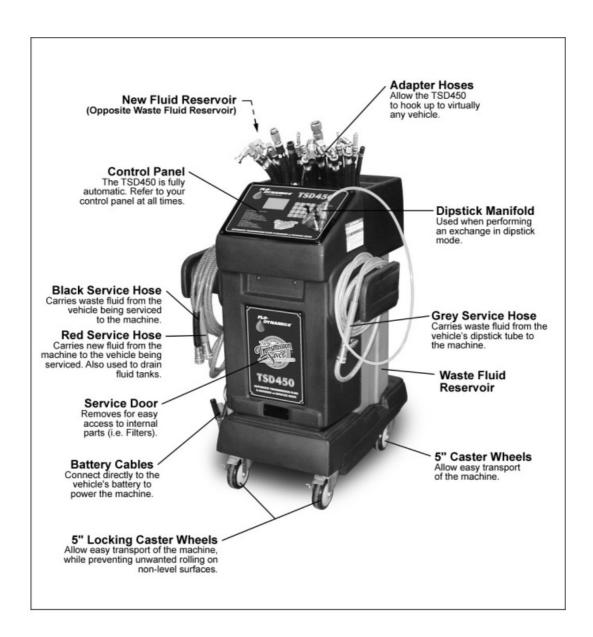
• Fuse: 15 Amp

• Fluid Sensors: Accurate sensor technology

• Filters: 25-micron absolute fluid filters

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

MACHINE OVERVIEW



OPERATING PROCEDURES

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	End Wrenches	Hex Wrenches
3/8"	3/8"	1/8"
7/16"	7/16"	11/16"
1/2"	1/2"	
9/16"	9/16"	
5/8"	<i>5</i> /8"	
11/16"	11/16"	
3/4"	3/4"	

Nut Drivers (American)	Nut Drivers (Metric)	Filter Band Clamp For replacing canister filters
3/16"	6 mm	
1/4"	8 mm	
5/16"	9 mm	
3/8"	10 mm	
7/16"	11 mm	
	12 mm	
	13 mm	
	14 mm	

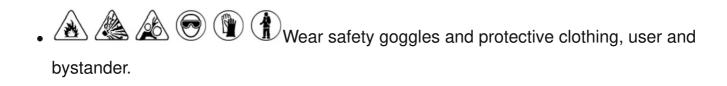
Metric End or	Screwdrivers		
Line Wrenches	Phillips	Standard	
10 mm	1 long	1 long	
11 mm	1 short	1 short	
12 mm			
13 mm			
14 mm			
15 mm			
16 mm			
17 mm			
18 mm			
19 mm			
20 mm			





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





- Do not operate the TSD450 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 the battery, or allow a spark or flame in the vicinity of the battery.
- Clean battery terminals before hooking the machine's battery clips to them. During cleaning, keep airborne corrosion from the 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 the parking brake and put the 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.



- 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 TSD450 is fully automatic. Refer to your control panel at all times.

ACAUTION

- 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 TSD450. 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.

BASIC OPERATING INSTRUCTIONS

- **IMPORTANT:** Turn the 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 the machine is received, before the first operation.)
- The system must be primed before first use.
 - 1. Connect the machine to the battery
 - 2. Make sure the fluid is in the new fluid tank
 - 3. Connect the red and black service hoses using the adapters
 - 4. Press 0
 - 5. Press 5
 - 6. Press START

TRANSMISSION FLUID EXCHANGE

Dipstick Exchange

- 1. Connect battery leads.
- 2. Press 2 to select "Dipstick Exchange".
- 3. Connect red & grey service hoses to the chrome manifold.
- 4. Insert the nylon tube down the ATF dipstick tube, being cautious not to insert too far.
- 5. With the engine off, select the quantity using the ▲ and ▼ buttons, and press START.
- 6. To skip the cleaning process, press "1" and continue to step 10.
 - Cleaning Process (Optional)
- 7. Press "2" for 5 Minute Cleaning, or "3" for 10 Minute Cleaning. When adding chemicals, add directly to the vehicle for best results.
- 8. Press "START" to begin the cleaning process.
- 9. When the cleaning process is complete, shut off the engine.
- 10. Follow instructions on screen and press START. Exchange will begin. Once the exchange has begun, press the STOP button once to pause the machine. Press

- START to resume from pause. Press STOP a second time to cancel the exchange.
- 11. After the first cycle completes, start the vehicle's engine and press START.
- 12. After the second cycle completes, the unit will beep and display "Complete".
- 13. You may top off or remove fluid by using the "ADD FLUID" or "REMOVE FLUID" buttons.
- 14. Press 0 to return to the main menu.

Inline Exchange

- 1. Connect battery leads.
- 2. Locate and disconnect the most easily accessible hose or fitting at the radiator end of the transmission cooler system.
- 3. Refer to Section 4.01- Adapter Hoses to identify the specific adapter hoses required for the vehicle, and attach the adapter hoses to the vehicle.
- Connect red & black service hoses to quick-disconnect adapters on ends of adapter hoses.
- 5. Press 1 to select "Inline Exchange".
- 6. Select quantity using the ▲ and ▼ buttons, and press START.
- 7. Press "1" for No Cleaning, "2" for 5 Minute Cleaning, or "3" for 10 Minute Cleaning. When adding chemicals, add them directly to the vehicle for best results.
- 8. Start the vehicle's engine, and press START to confirm choices. Exchange will begin. Once the exchange has begun, press the STOP button once to pause the machine. Press START to resume from pause. Press STOP a second time to cancel the exchange.
- 9. When the exchange is finished, the unit will beep and display "Complete".
- 10. You may top off or remove fluid by using the "ADD FLUID" or "REMOVE FLUID" buttons.
- 11. Press 0 to return to the main menu.

ADDITIONAL INSTRUCTIONS

Add 1 Quart

- 1. Press 0
- 2. Press 3

Remove 1 Quart

- 1. Press 0
- 2. Press 4

Drain Waste Fluid Tank

- 1. Connect to the battery
- 2. Connect open open-end adapter to the red hose. Make sure all other hoses are disconnected
- 3. Press 0
- 4. Press ▼
- 5. Press 7
- 6. The unit will shut off when complete

Drain New Fluid Tank

- 1. Connect to the battery
- 2. Connect open open-end adapter to the red hose. Make sure all other hoses are disconnected
- 3. Press 0
- 4. Press ▼
- 5. Press 6
- 6. The unit will shut off when complete

Prime the Machine

- 1. Connect to the battery
- 2. Make sure the fluid is in the new fluid tank
- 3. Connect the red and black service hoses using the adapters
- 4. Press 0
- 5. Press 5
- 6. Press START

Switch Hoses

- 1. Turn the vehicle off
- 2. Switch hoses
- 3. Restart the vehicle
- 4. Press START
- 5. Press 3

Shift to Neutral

- 1. Shift the vehicle to neutral
- 2. Press START

CUSTOMER SERVICE CONTACT INFORMATION

• If you experience any problems or have any questions, call technical support at: 18003035874

HOSES & ADAPTERS

ADAPTER HOSES STANDARD HOSES



-Green- 5/8"-18 [F]

SAE 45° Flare - Swivel (Chrysler - 1993 and Newer)



(Mates with #52)

SAE 45° Flare (Chrysler)



-Blue-5/8"-18 [M]

941803- Hose #53 (Mates with #57)

SAE 45° Flare - Swivel (General Motors with 3/8" Tube Diameter Lines - All Years)



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



5/8"-18 [F]

Newer)

SAE 45° Inverted (General Motors with 3/8" Tube Diameter Lines - 1997 and 941807- Hose #57 (Mates with #53)

-Black-

- Ci -Black-941809- Hose #59

1/2" Diameter Hose [F] Open End Hose w/Clamp

(Mates with Step Fitting)

(Import)

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

5/16" Diameter Hose [F] Open End Hose w/Clamp

(Import)

-Green- 1/4"-18 [M] 941815- Hose #65

NPTF

(Jeep Cherokee- 1980-1986) (Mates with #75)

17.7]] -Red-

1/2"-20 [F] SAE 45° Inverted

941816- Hose #66 (Mates with #67)

(Chrysler, Ford Aerostar, Jaguar, Mercedes, & Cadillac-1985 and Newer) * Needs Ford Slide Tool 940140 for Aerostar / Windstar

1/2"-20 [M] SAE 45°

941817- Hose #67 (Mates with #66)

-Red-

(Chrysler and Ford)

-Red-5/8"-18 [M] 941818- Hose #68 SAE Inverted - Swivel (Mates with #69) (Ford With Large Nut Adapter - 1980 and Newer) -Red-5/8"-18 [F] SAE Inverted 941819- Hose #69 (Mates with #68) (Ford) -Blue-1/2"-20 [M] SAE 90° Inverted - Swivel 941820- Hose #70 (Mates with #71) (General Motors with 5/16" Tube Diameter Lines - All Years) -Blue-1/2"-20 [F] 941821- Hose #71 SAE Inverted (Mates with #70) (General Motors & Ford Expedition) 1/2"-20 [F] -Red-941822- Hose #72 SAE Inverted (Mates with #73) (Ford) -Red-1/2"-20 [M] 941823- Hose #73 SAE 90° Inverted - Swivel (Ford 5/16" Small / Long Nut Adapter - 1980 and Newer) (Mates with #72) -Green- M14 x 1.5 [F] 941825- Hose #75 Swivel O-ring (Jeep Cherokee, Ford Escort - 1980-1986) (Mates with #65) -Red-M14 [F] 940874- Hose #78 Banjo Fitting (Ford Escort - 1994 and Newer) (Mates with #79) -Red-M14 x 1.5 [M] 940875- Hose #79 Bolt w/ 2 Washers (Mates with #78) (Ford Escort - 1994 and Newer) 0 115 -Black- 1/4" [M] 941828- Hose #80 Universal Bump Fitting (Mates with #81) (Import) 0 -Black- 1/4" Diameter Hose [F] 941829- Hose #81 Open End Hose w/Clamp

(Mates with #80)

(Mates with #63)

(Import)

@ str ... -Black- 5/16" [M] Universal Bump Fitting 941830- Hose #82

(Infiniti, Lexus, and BMW - 1980 and Newer)



ADAPTERS

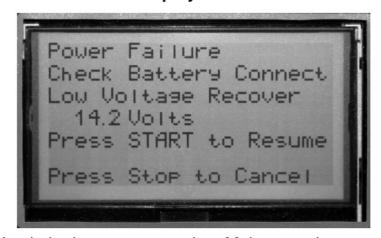
The following adapters allow quick and easy hookup to virtually any vehicle make and model.



TROUBLESHOOTING & MAINTENANCE

COMMON PROBLEMS / SOLUTIONS

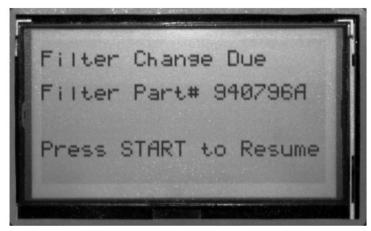
• Problem: "Power Failure" screen displays



- Solution 1: Check the 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 the vehicle's A/C system is turned off.
- 2. **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 the 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 at the bottom of the recessed hose tray area)
- This helps eliminate surface tension caused by debris and contamination from the air.
- Using a sharp pick, remove the screen. Clean using degreaser and brush, and blow out with an air compressor.
- Periodically Wipe Down the Exterior using a soft, damp cloth.

REPLACEMENT PARTS

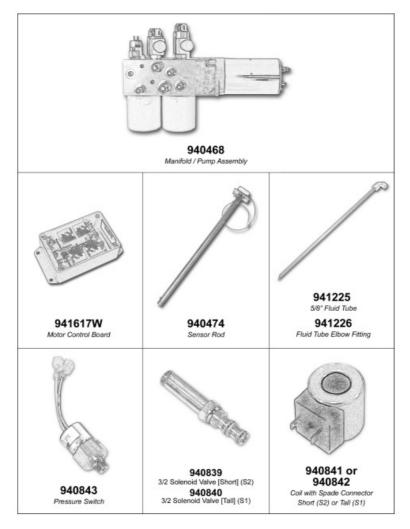
REPLACEMENT PART LIST

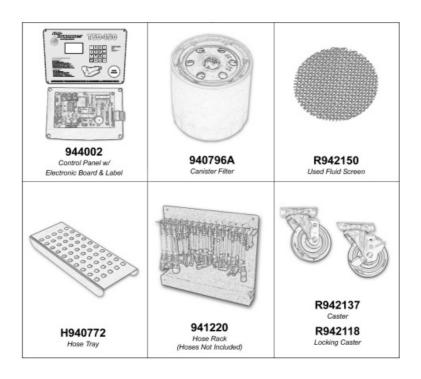
Part #	Description
944002	Control Panel w/ Elec. Board & Label
940307	Battery Cable Assembly
941617W	Motor Control Box
940474	Sensor Rod
941225	5/8" Fluid Tube
941226	Fluid Tube Elbow Fitting
940468	Manifold / Pump Assembly

940843	Pressure Switch (Factory preset to 6 psi)
940839	3/2 Solenoid Valve [Short] (S2)
940840	3/2 Solenoid Valve [Tall] (S1)
940841	Coil with Spade Connector [Short] (S2)
940842	Coil with Spade Connector [Tall] (S1)
R940775	Hose Kit
H940772	Hose Tray
941220	Hose Rack
940831	Master Hose Connector
940785	Service Hose (Black)
940786	Service Hose (Red)
941728	Service Hose (Grey)
941716W	Adapter Manifold Assembly
941708	Dipstick Reducer Hose
R940750	Chassis
941205	Console
R940752	Top Sink
942113	Tank Cap
941202	Tank Red New
941203	Tank Red Used
941705W	Service Panel w/ Label

R942118	Locking Caster Wheel
R942137	Caster Wheel
940796A	Canister Filter
R942150	Used Fluid Screen (1 1/4" Diameter)
941785	Operations Manual
941784	Quick Start Instructions
941783	Quick Start Instructions: Additional Functions
941921	Universal Hose Chart

REPLACEMENT PART ILLUSTRATIONS





ORDERING INFORMATION

To order replacement parts for the Flo-Dynamics TSD450, call: 18003035874

LIMITED WARRANTY

LIMITED ONE (1) YEAR WARRANTY

Flo-Dynamics TSD450

- 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 Sell, er 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 JUDGMENT, 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 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.

FAQ

- Q: How often should I service the lubrication system using the TSD450?
 - A: It is recommended to service the lubrication system every 15,000 miles or as per the vehicle owner's manual.
- Q: Can I perform a transmission fluid exchange without dropping the transmission pan?
 - A: Yes, the TSD450 allows you to exchange almost all of the used transmission fluid with new fluid without dropping the transmission pan.

Documents / Resources



Flo-Dynamics TF-040425 Automatic Transmission Fluid Exchanging Mac hine [pdf] Instruction Manual

TF-040425 Automatic Transmission Fluid Exchanging Machine, TF-04042 5, Automatic Transmission Fluid Exchanging Machine, Transmission Fluid Exchanging Machine, Exchanging Machine

References

- User Manual
- FLO-DYNAMICS
- ◆ Automatic Transmission Fluid Exchanging Machine, Exchanging Machine, FLO-DYNAMICS, Fluid Exchanging Machine, TF-040425, TF-040425 Automatic Transmission Fluid Exchanging Machine, Transmission Fluid Exchanging Machine

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