

EBS PRODUCTS

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OPERATIONS MANUAL



EDS-1 Dip Stick Fluid Exchange Equipment

#1000-0075

1-1-16

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I. SAFETY INFORMATION

1.01 IMPORTANT SAFETY NOTICE

For your safety, read this manual thoroughly before operating your EBS Dip Stick Fluid Exchange Equipment. Always refer to and follow the safety messages and applicable service procedures provided by the manufacturer of the vehicle being serviced. Only properly trained professional automotive technicians should perform the service. *Improper use and operation of this product can result in injury.*

• Safety Symbols



Risk of Fire



Mandatory Eye Protection



Risk of Entanglement



Mandatory Protective Gloves



Dangerous Fumes



Mandatory Protective Clothing

1.02 IMPORTANT SAFETY INSTRUCTIONS



WARNING



Insure both ambient and electro mechanical ventilation of work area.

When using chemicals always refer to the MSDS sheets and local laws for proper emergency medical treatment, cleanup, handling, and storage requirements.

Wear safety glasses (user and bystanders), chemical resistant gloves, and protective clothing when servicing a vehicle with the EBS Dip Stick Fluid Exchange Equipment.

Keep yourself, clothing, adapters and service hoses clear of moving parts.

Avoid exposure to flames, sparks, hot engine parts, and other ignition sources

Care should be taken to arrange the power cord and service hoses so that they will not be tripped over or pulled.



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EDS-1 #1000-0075 Dip Stick Fluid Exchange Equipment Specifications

- ⇒ Heavy duty HDPE cabinet with a built in handle, locking front swivel wheels and large 8" rear wheels
- ⇒ Both 110vac fused power converted to 12vdc operation or 12vdc battery power available
- ⇒ Heavy Duty 110vac 22 ft. power cord with holder
- ⇒ 12ft. Heavy Duty 12vdc battery cable attached to cabinet
- ⇒ Easy to use electric switch control panel
- ⇒ Two - 2 gallon new fluid tanks, front visible, level marked and top filled for your choice of oil, transmission fluids, etc. No brake or coolant fluids
- ⇒ 1.0 GPM rated separate fill pumps for each new fluid tank - 6.5 ft. braided service hoses
- ⇒ Two- separate 2.5 gallon marked waste tanks - service tank in top receptacle - spare in the rear of the cabinet
- ⇒ Heavy duty ½ GPM vacuum pump - 5.5ft. braided service hose
- ⇒ Dual service valve control of fill and vacuum for active servicing
- ⇒ 6 foot braided fill and vacuum hoses
- ⇒ 4 foot each .180" id and .242" id dipstick service hoses with quick connects
- ⇒ Hose drain reservoir for dipstick hoses



Machine Dimensions:

Height	48 ½ inches
Depth	27 inches
Width	19 inches
Machine Weight	65 lbs.
Shipping Weight	105 lbs.

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III. OPERATING PROCEDURES

Call 714-896-6700 for any operation, service or maintenance questions

3.01 CONTROL PANEL OVERVIEW



Figure 1

KEYS NAME/FUNCTION	DETAILS
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VAC	Turns vacuum on for vacuuming.
NEW 1 FILL	Pumps New Fluid from the New 1 Fluid Tank
NEW 2 FILL	Pumps New Fluid from the New 2 Fluid Tank

3.02 IDENTIFYING THE SYSTEM FLUID REQUIREMENTS

Identify the OEM fluid specification of the vehicle to be serviced before performing any set up or servicing procedure on vehicle. **Follow the vehicle manufacturer's recommendation for fluid type.**

3. **Vehicle Preparation for Dip Stick Fluid Exchange**

1. Insure vehicle is safely parked and **engine is OFF.**
2. Repair any leaks or malfunction prior to fluid service.
3. Refer to manufacturer's maintenance manual for compliance with manufacturer's precautions or recommendations prior to exchanging fluid.
4. Wear appropriate protective clothing and goggles.

3.04 **Equipment Preparation**

1. Place equipment in a safe area at the front of the vehicle perpendicular to the vehicle's direction and lock equipment wheels. **Locate and confirm dip stick for fluid being serviced.**
2. **Turn all switches to the "OFF" position – left side of switch – will be unlighted.**
3. **Plug machine into a grounded 110 VAC electrical outlet. or attach battery cables to vehicle battery. Select power source – see Figure 2**
4. Turn equipment on. If 110vac powered, verify that the light on the main "Power" switch is illuminated and no equipment pumps turn on. If 12vdc powered turn VAC switch ON momentarily to verify 12vdc power.



Figure 2



Figure 3

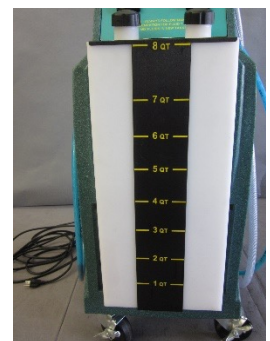


Figure 4

3.05 Empty WASTE TANK – Start with empty Waste Tank properly connected on top of equipment – See Figure 3

3.06 Fill NEW FLUID TANK – see Figure 4 – Fill NEW 1 Tank or NEW 2 Tank with the proper fluid for the service to be performed.

4.00 **Vehicle Dip Stick Fluid Servicing**

1. Remove vehicle dip stick – always check for fluid condition and contaminants.
2. Connect Vacuum and Fill Service Hoses to Service Manifold – See Figure 5 - and largest Dip Stick Service Hose to end of Service Manifold – See Figure 6.



Figure 5



Figure 6



Figure 7

3. Turn VAC Switch ON and monitor old fluid entering Waste Tank on top of equipment – See Figure 7
4. When waste fluid has been removed, turn VAC Switch OFF – observe waste fluid volume removed
5. At this time the pan can be dropped – transmission service – or the oil filter removed and replaced – oil service.
6. Once completed, turn NEW 1 or 2 FILL Switch ON and refill with the volume removed in Step 4 above.
7. Turn all switches OFF.
8. **It is recommended that the waste tank be emptied at the end of each service so proper monitoring of fluid removed from the vehicle can be replaced.**

For any service or operation issues please call
EBS Technical Support at 714-896-6700

IV PARTS LIST

	PART #	DESCRIPTION
1220-0026		CASTER SWIVEL, SILVER SIDE BRAKE
1220-0022		REAR WHEEL AXLE
3000-0420		WASTE TANK 2.5 GALLONS
3000-0096		NYLON DIP STK HOSES – 4FT - .180 AND .242ID'S
3000-0020		GEAR OIL FILL PUMP
3000-0050		GEAR OIL VACUUM PUMP
3000-0058		FILTER
3000-0100		HIGH FLOW GUN 1/4" FNPT
3000-0015		NEW 1 GALLON TANKS
1520-0000		ELECTRIC BOX
3000-0320		POWER SUPPLY 150 W
1520-0020		MAIN POWER SWITCH
3000-0060		MINIATURE VALVE 3/8" FNPT X 3/8" FNPT
1520-0010		POWER CORD CONNECTOR
1220-1023		CAPS FOR 64OZ BOTTLE
1520-0040		POWER CORD
3000-0410		FACE PLATE SWITCHES
3000-0400		TOUCH PAD

LIMITED TWO (2) YEAR WARRANTY

EBS warrants only to the original Purchaser that under normal use, care and service, the Dip Stick Fluid Service Equipment shall be free from defects in material and workmanship for two year from the date of original purchase. External hoses, remote control modules, adapters and all other attachments, supplies and consumables are warranted for 90 calendar days from the date of original invoice. Filter elements are not warranted.

PURCHASER'S TECHNICIAN MUST HAVE TELEPHONE COMMUNICATIONS WITH EBS TECHNICAL SUPPORT TO DIAGNOSE THE PROBLEM AND DETERMINE IF THE PROBLEM IS A WARRANTY ISSUE BEFORE ANY REPAIRS OR REPLACEMENT CAN BE MADE.

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-**the use of the equipment with non-approved fluids is misuse**; (B) alteration, modification or adjustment of the equipment, improper or negligent use, application, operation, care, cleaning, storage or handling; attachments, supplies or consumables not manufactured or supplied by Seller.