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Applications

• Priming after Filter Service
  - Eliminates the use of hand priming pumps after performing maintenance
  - Uses on-board fuel to prime engines and filters, avoids the hassle of keeping reserve fuel on hand
  - Eliminates cross contamination of fuel

• Fuel Transfer
  - Filters and transfers fuel in one operation
  - Transfers fuel when repairing tanks or crossover lines
  - Transfers fuel for trucks being sold or taken out of service

• Tank Cleaning
  - Removes contaminated fuel, sediment and water from fuel tanks of diesel powered equipment or from diesel storage tanks
  - Cleans fuel tanks during service — can be a value added service or a new revenue stream
  - Eliminates downtime due to fuel contamination

Specifications

• Height: 47.4"
• Width: 23.3"
• Depth: 17.4"
• Weight: 100 lbs
• Electric Motor: 120VAC, 3450 RPM
• Flow Rate: 115 GPH

Shop Pro Filtration

• All-in-one fuel filter and water separator for diesel fuel
• Superior fuel/water separation
• Easy to access drain
• Lightweight aluminum construction

Features

• Cart
  - Heavy-duty steel construction
  - Portable and self-contained

• Electrical
  - UL® Listed, rear-facing receptacle
  - Waterproof ON/OFF switch
  - 120VAC connection

• Pump and Motor
  - Electric motor/pump combination rated for continuous operation
  - UL® Listed and CSA approved

• Adapters and hoses
  - No-drip fittings
  - Color-coded for function

⚠️ Product Warning: The Shop Pro is only approved for use with diesel fuel. It is not approved for use with gasoline or any other flammable liquids.
SHOP PRO® FXP COMPONENTS

- Pick-up Wand
- Suction Hose
- Hose Retainer
- Pressure Hose
- Sight Tube
- Filtration Unit
- Drain Valve
- Drain Hose
- Pump
- Motor
- Heavy Duty Cart

120VAC RECEPTACLE

12VDC CONNECTORS

12VDC SWITCH
IMPORTANT SAFETY PRECAUTIONS

General Safety Precautions

• The Shop Pro is only approved for use with diesel fuel. It is not approved for use with gasoline or any other flammable liquids.
• Read all instructions before use to avoid injury.
• To avoid serious injury or death, follow the safety information in this document.
• Keep this manual. If you need to replace the manual, call customer service at 800-328-2611 or visit www.davco.com for a replacement.
• Read all product safety labels.
• Refer to appropriate regulations for environmental and workplace safety rules.

WARNING: To prevent personal injury

• **Recommended Personal Protection Equipment:**
  - Eye Protection
  - Chemical resistant gloves

• **Avoid Fuel Spillage:** When disconnecting attachments equipped with Quick connect fittings, wrap a shop rag around the fitting to catch any residual fuel. Allow fuel to drain back into hoses before closing ball valves to avoid spillage when returning hoses to the Cart.

• Do not leave the Shop Pro running unattended. Follow engine manufacturer guidelines for proper priming procedures. Always disconnect the power supply when the Shop Pro is not in use.

• **Scalding hazard:** When diesel fuel is circulated through an operating engine, it can become very hot. Do not allow fuel to come in contact with eyes or unprotected skin. Allow the engine and fuel to cool to ambient temperature before replacing the fuel filter or performing service operations which could result in spillage of fuel from the fuel system.

• **Fire Prevention:** Heated fuel can form combustible vapor mixtures in the area around the fuel source. To eliminate the potential for fire, keep open flames, sparks or other potential ignition sources away from the work area. Do not smoke during filter replacement or service operations.

• **Inhalation Precaution:** Always perform engine or vehicle fuel system maintenance in a well ventilated area that is kept free of bystanders.

• The ignition key must be in the **off** position, unless otherwise directed. To avoid unintentional engine startup, use a lockout key and/or signage to alert personnel that work is being performed.

Government Regulations

• Engine fluids (oil, fuel, and coolant) may be a hazard to human health and the environment. Handle all fluids and other contaminated materials (such as filters and rags) in accordance with applicable regulations. Recycle or dispose of engine fluids, filters, and other contaminated materials according to applicable regulations.
**Set-up and First Use**

1. Unpack the Shop Pro and remove the cable ties from hoses.
2. Remove the vent cap from the filtration unit.
3. Pour diesel fuel into the clear cover until it reaches the black band on the filter element (approximately 1 gallon). (This fuel will be on the “dirty” side of the filter, meaning that the fuel will be filtered before flowing through the Shop Pro FXP to the engine or tank.)
4. Reinstall the vent cap and tighten by hand until it clicks. The Shop Pro FXP is now ready for use.
5. Connect the Shop Pro to a power source. Install the pick-up wand (green hose) and dispensing wand (red hose). Put the wands in a five-gallon (minimum) fuel container or truck fuel tank. Turn the Shop Pro power on and circulate fuel until there are no bubbles in the sight tube. Turn off the Shop Pro. Close the ball valves on both hoses. Remove the wands from the hoses and return them to their storage area. Connect the hoses to the hose retainers. (Refer to photo on page 2.)

**Filtration Unit Maintenance**

**Drain Water**

Water that has been separated from fuel will collect in the bottom of the body of the filtration unit. Drain the water periodically. The frequency will depend on how often the Shop Pro is used and the quality of the fuel it has filtered.

1. Open the vent cap slightly to break the vacuum. Place the end of the drain hose in a suitable container and open the drain valve.
2. When only fuel is coming out of the hose, shut the valve. Hand tighten the vent cap until it clicks.

**Filter Replacement**

Replace the filter in the filtration unit when there is low flow/pressure or when the filter is visibly contaminated. The filter change will also include replacement of the seals on the vent cap and on the collar.

1. Remove the vent cap and open the drain valve to drain the fuel completely. Close the drain valve.
2. Remove the collar (use the DAVCO wrench) then remove the clear cover. Remove the filter. Remove the seals from the cover and the vent cap. Dispose of the filter and the seals properly.
3. Using a clean shop rag, clean the cover, vent cap, collar and threads on the filtration unit body. Do not use any acetone based cleaners on the clear cover.
4. Install the new filter and the seals (included with the replacement filter).

**Replacement filter part numbers:**

- Fleetguard: FS19915
- Detroit Diesel: A0000903651

**Pro Tip:** Write the date of the filter change with a permanent marker on the filter wrap.

**Pro Tip:** Install the cover and collar on the filtration unit housing. Apply downward pressure on the top of the cover and rotate the collar until contact. Use a DAVCO wrench to tighten three additional ribs.

5. Pour clean fuel into the filtration unit.
6. Reinstall the vent cap and tighten by hand until it clicks.

**Service Parts**

See page 10 for service parts. Call DAVCO customer service at 800-328-2611 to order.
### HOSES AND ADAPTERS

#### HOSES

<table>
<thead>
<tr>
<th>Hose</th>
<th>Connection</th>
<th>Description</th>
<th>Photo</th>
</tr>
</thead>
</table>
| Red   | Quick connect| Pressure Hose with check valve                      | ![Pressure Hose](image)
| Green | Quick connect| Suction Hose                                         | ![Suction Hose](image) |

#### ADAPTERS/WANDS

<table>
<thead>
<tr>
<th>Hose</th>
<th>Connection</th>
<th>Description</th>
<th>Photo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue Compucheck</td>
<td>Compucheck</td>
<td>Compucheck fitting for priming Fuel Module</td>
<td><img src="image" alt="Compucheck" /></td>
</tr>
<tr>
<td>60&quot; White tube</td>
<td>Quick connect</td>
<td>Pick-up Wand: Put in fuel tank or container</td>
<td><img src="image" alt="Pick-up Wand" /></td>
</tr>
<tr>
<td>20&quot; White tube</td>
<td>Quick connect</td>
<td>Dispensing Wand: Tank sweeping or fuel transfer</td>
<td><img src="image" alt="Dispensing Wand" /></td>
</tr>
</tbody>
</table>
HOSE CONNECTIONS FOR PRIMING

FUEL PRIMING COMPUCHECK FITTING

QUICK CONNECT

PRESSURE HOSE

SUCTION HOSE

PRESSURE (RED)

SUCTION (GREEN)

COMPUCHECK ADAPTER (BLUE)

QUICK CONNECT

PRESSURE (RED)

SUCTION (GREEN)

FUEL TANK

QUICK CONNECT

PRESSURE (RED)

SUCTION (GREEN)
PRIMING THE FUEL MODULE WITH THE COMPUCHECK ADAPTER

1. Attach the pick-up (60") wand to the suction hose (green) and insert it into the fuel tank.

2. Open the ball valve.

3. Attach the Compucheck Adapter (blue hose) to the pressure hose (red) on the Shop Pro.

4. Connect the Compucheck fitting to the priming port on the fuel module.

5. Open the ball valve.

6. Turn the Shop Pro FXP ON. Prime the fuel system for four (4) minutes.

7. While the Shop Pro is still turned ON, start the engine. Allow the engine to idle for one minute before revving the engine. Turn off the engine.

8. Turn the Shop Pro off. Close the Shop Pro pressure hose ball valve. Remove the Compucheck adapter from the fuel module.

9. Remove the pick-up wand from the fuel tank.
   - Allow the fuel to drain back into the tank before closing the ball valve.
   - Return the adapters to the cart.
   - Return the hoses to the hose retainers.

10. Restart the truck and check for leaks.
Overview:
The suction hose (green) is connected to the pick-up wand (60” white wand). The pressure hose (red) is connected to the dispensing wand (20” white wand). The fuel is filtered as it is drawn from the tank and returned to the same tank (or auxiliary tank). By moving the wand along the sides and bottom of the tank, water and contaminants that have settled in the tank are removed. The sight tube aids in determining the length of time needed to clean the tank.

Pro Tip: Remove the anti-siphon fill cap from the fuel tank before sweeping.

Pro Tip: Elevate the end of the truck to allow water and contaminants to collect closest to the fuel fill point.

1. Connect the Shop Pro to a power source.
2. Attach the 60” pick-up wand to the suction hose (green) and insert it into the fuel tank.
3. Open the ball valve.
4. Attach the 20” dispensing wand to the pressure hose (red).
5. Insert the dispensing wand into the fuel tank and open the ball valve.
6. Turn the Shop Pro ON.
7. With the pick up wand, slowly sweep the bottom and sides of the fuel tank with a side-to-side motion. Refer to the appearance of the fuel in the sight tube to determine when sweeping is complete. If the tank being cleaned has excessive water (visible in the clear cover) turn the Shop Pro off and drain the filtration unit.
8. When sweeping is complete, run for one additional minute to flush residual water from the Shop Pro to prevent gear corrosion. Turn the Shop Pro OFF.
9. Remove the wands from the fuel tank.
   - Allow the fuel to drain back into the tank before closing the ball valves.
   - Return the wands to the cart.
   - Return the hoses to the hose retainers.
Overview:
The suction hose (green) is connected to the pick-up wand (60" white wand). The pressure hose (red) is connected to the dispensing wand (20" white wand). The fuel is filtered as it is drawn from the Tank A or storage container and transferred to Tank B. Water and contaminants that have settled in the tank are removed as the fuel is transferred between the tanks.

1. Connect the Shop Pro to a power source.
2. Attach the 60" pick-up wand to the suction hose (green) and insert it into the fuel tank.
3. Open the ball valve.
4. Attach the 20" dispensing wand to the pressure hose (red). Insert the dispensing wand into the fuel tank or container that the fuel is to be transferred to.
5. Open the ball valve.
6. Turn the Shop Pro ON. If the tank the fuel is being transferred from has excessive water (visible in the clear cover) turn the Shop Pro off and drain the filtration unit.
7. When the fuel transfer is complete, run for one additional minute to flush residual water from the Shop Pro to prevent gear corrosion. Turn the Shop Pro OFF.
8. Remove the wands from the fuel tank.
   - Allow the fuel to drain back into the tank before closing the ball valves.
   - Return the wands to the cart.
   - Return the hoses to the hose retainers.
## SERVICE PARTS

### Cart
- **A** Plugs (10) 1” x 1” Sq 782196S
- **B** Gripper Clips & Screws 782213S
- **C** Motor Cover and (5) Screws* 782126S-B
  - Motor Fasteners (Not Shown) 782225S
  - Petcocks (2) (Not Shown) 782197S
  - Pump Bracket, Washers & Screws (Not Shown)* 782214S-B
- **D** Wheels (2), Pins & Washers 782194S

### Electrical
- **E** Coupler Asm 782058S
- **F** Electrical Box with Switch 782061S
- **G** Electrical Switch 782215S

Motor (Not Shown) Note: If the Shop Pro was purchased prior to 08/22/2016, the pump bracket kit is also required (P/N/ 782214S-B)*

- **H** Pump 782002S

### Fuel Filtration
- **I** Cover, Collar, Vent Cap and O-rings 782157S
- **J** Drain Valve 102008
- **K** Fuel Filter-Fleetguard P/N FS19915
  - Detroit Diesel P/N A0000903651
- **L** Fuel Filter-Fleetguard FS19915
- **M** Sight Glass Kit 782149S
- **N** Wrench 482017

### Hoses

<table>
<thead>
<tr>
<th>Description</th>
<th>Purchased before 09/06/16</th>
<th>Purchased after 09/06/16</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>O</strong> Pressure Hose (red) 17 ft.</td>
<td>782134S</td>
<td>782286S</td>
</tr>
<tr>
<td><strong>P</strong> Suction Hose (green) 12 ft.</td>
<td>782117S</td>
<td>782287S</td>
</tr>
<tr>
<td><strong>Q</strong> Hose Kit (Sight Glass, Sight Glass-Filter, Pump-Filter)</td>
<td>782212S</td>
<td></td>
</tr>
<tr>
<td><strong>R</strong> Drain Hose</td>
<td>782268S</td>
<td></td>
</tr>
</tbody>
</table>

Purchase Service Parts directly from the DAVCO online store. Scan this code with your cell phone to go directly to the Shop Pro FXP Service Parts page.

*Ryder Customers: To order parts with red finish, use “R” on part number instead of “Adapter B”.*

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DAVCO Technology, LLC 1600 Woodland Drive, Saline, MI 48176 800-328-2611 www.davco.com F1304 REV I
## SERVICE PARTS

<table>
<thead>
<tr>
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<th>Purchased before 09/06/16</th>
<th>Purchased after 09/06/16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compucheck Adapter (Blue)</td>
<td>782236S</td>
<td>782294S</td>
</tr>
<tr>
<td>Pick-Up Wand (60° tube)</td>
<td>782114S</td>
<td>782289S</td>
</tr>
<tr>
<td>Dispensing Wand (20° tube)</td>
<td>782133S</td>
<td>782288S</td>
</tr>
</tbody>
</table>
Please review DAVCO’s Product Warranty terms and conditions carefully before installing and/or using a DAVCO product.

**Diesel Pro® 243, Diesel Pro® 245, Fuel Pro® 382, Fuel Pro® 482, Fuel Pro® 483, Fuel Pro® 485, Fuel Pro® 487, Industrial Pro®, Pro-Chek®, Sea Pro®**

DAVCO Technology, LLC warrants these products to be free of defects in material and workmanship for five years, 500,000 miles or 10,000 hours (whichever comes first) and electrical parts for two-years, 200,000 miles or 4,000 hours (whichever comes first) from the purchase date*.

**Shop Pro®**

DAVCO Technology, LLC warrants the Shop Pro (except for the motor) to be free of defects in material and workmanship for two years from the date of purchase. The Shop Pro motor is warranted for one year from date of purchase.

**REN Products, EyeMax®, and Fuel Pro® 384**

DAVCO Technology, LLC warrants these products to be free of defects in material and workmanship for two-years or 200,000 miles (whichever comes first) from the purchase date.

By installing and/or using the product, you agree to be bound by the following:

**This Warranty does not apply to:**

- Failure or inadequate performance due to improper installation, misuse, misapplication, faulty installation, alteration/ modification, poor maintenance, neglect, accident, or conditions resulting from actions outside DAVCO’s control, including but not limited to the use of contaminated, corrosive, and unapproved fluids.
- Downtime, loss of use, loss of profits or income, loss of capital, cost of substitute equipment, living expenses, claims by purchaser’s customers or other third parties, or other incidental, special or consequential damages.
- Attachments, accessory items, and parts not manufactured or distributed by DAVCO.
- Any aftermarket or OEM component not approved specifically to work with a DAVCO manufactured product
- Product that has been installed with aftermarket parts or altered or modified in any way.
- Normal wear and tear, abuse, vandalism, acts of God, improper storage or handling, disasters such as flood, fire, or war, failure to operate, maintain or repair in accordance with instructions, or failure to repair the vehicle into which the product is installed in accordance with the vehicle manufacturer’s instructions or common maintenance practices.

This warranty is the sole warranty made by DAVCO. DAVCO makes no other warranties, expressed or implied, of merchantability or fitness for a particular purpose.

In the unlikely event of a defective product, DAVCO will either rework the defective product or replace it at DAVCO’s discretion. If you feel you have a warrantable issue, contact DAVCO at 800-328-2611 for a Return Goods Authorization (RGA) number **. An RGA number is required prior to the return of any product.

* Purchase Date: The date of the first retail purchase of a new vehicle or piece of equipment from the OEM dealer or factory. For “Over the Counter” purchase: The date of sale to the first retail customer.

**Products submitted for Warranty consideration will be inspected by DAVCO personnel. Re-work or replacement will be based on DAVCO’s Warranty procedure and/or the results of their evaluation. DAVCO's Warranty Program does not in any way constitute a product guarantee.
PARTS RETURN POLICY

Parts Return General Policy
A Return Goods Authorization (RGA) must be obtained from DAVCO prior to returning any products. Returns may be accepted under the following circumstances:

• Order Shipping Error: A credit against the original invoice, including freight charges for both ways will be issued for returns in which DAVCO inadvertently shipped incorrect quantity or product.

• Overstock: Returns for ordering more product(s) than required, or incorrect part(s), will be accepted within 60 days from the date of purchase. Proof of purchase will be required, i.e.: original invoice/delivery receipt. These types of return(s) are subject to a minimum restock fee of 40% or $40.00, whichever is higher. Additional restock fees may apply. Product(s) will be inspected for “like new” condition and additional costs will be the responsibility of the customer. No obsolete parts may be returned.

• Freight charges for return(s) will be the responsibility of the customer.