

Diversified Fabricators Inc.

Owner / Operator Manual

Lube Truck

1325 US 41 Bypass South
Griffin, Georgia 30224
1-800-526-6480
www.dfiequipment.com

Diversified Fabricators, Inc.

1325 Highway 41 Bypass South
Griffin, Ga. 30224

1-800-526-6480 / fax: 770-412-0459

WATER TRANSPORT / MOBILE LUBRICATION / SOIL STABILIZATION

website: www.dfiequipment.com

“DO NOT USE OR OPERATE THIS EQUIPMENT UNTIL THIS MANUAL HAS BEEN READ AND UNDERSTOOD.”



WARNING

EQUIPMENT MISUSE HAZARD

Equipment misuse can cause the equipment to rupture or malfunction and result in serious injury.

- ❑ This equipment is for professional use only.
- ❑ Read all instruction manuals, tag, and labels before operating the equipment.
- ❑ Use the equipment only for its intended purpose. If you are not sure, call Diversified Fabricators, Inc. 1-800-526-6480.
- ❑ Do not alter or modify this equipment.
- ❑ Check equipment daily. Repair or replace worn or damaged parts immediately.
- ❑ Do not exceed the maximum working pressure of the lowest rated component in your system
- ❑ Use fluids and solvents that are compatible with the equipment wetted parts. Read the fluid and solvent manufacturer's warnings.
- ❑ Handle hoses carefully. Do not pull on hoses to move equipment.
- ❑ Route hoses away from traffic areas, sharp edges, moving parts, and hot surfaces. Do not expose hoses to extreme temperatures.



WARNING

FLUID INJECTION HAZARD

Fluid from the dispensing valve, leaks or ruptured components can inject fluid into your body and cause extremely serious injury, including the need for amputation. Fluid splashed in the eyes or on the skin can also cause serious injury.

- Fluid injected into the skin might look like just a cut, but it is a serious injury. **Get immediate medical attention.**
- Do not point the dispensing valve at anyone or at any part of the body.
- Do not put your hand or fingers over the end of the dispensing valve.
- Do not stop or deflect leaks with your hand, body, glove or rag.
- Use only extensions and couplers that are designed for use with your dispensing valve.
- Do not use a low pressure flexible nozzle with this equipment.
- Follow the **Pressure Relief Procedure** if the grease fitting coupler clogs and before cleaning, checking or servicing the equipment.
- Tighten all fluid connections before operating the equipment.
- Check the hoses, tubes, and couplings daily. Replace worn or damaged parts

TOXIC FLUID HAZARD

Hazardous fluids or toxic fumes can cause serious injury or death if splashed in the eyes or on the skin, inhaled, or swallowed.

- Know the specific hazards of the fluid you are using.
- Store hazardous fluid in an approved container. Dispose of hazardous fluid according to all local, state and national guidelines.
- Always wear protective eyewear, gloves, clothing and respirator as recommended by the fluid and solvent manufacturer.

WARNING:

**DO NOT OPERATE THIS EQUIPMENT
WHILE BYSTANDERS ARE WITHIN 50
FEET, OF UNIT.**





WARNING

FIRE AND EXPLOSION HAZARD

Improper grounding, poor ventilation, open flames, or sparks can cause a hazardous condition and result in a fire or explosion and serious injury.

- ❑ Ground the equipment and the object being dispensed to.
- ❑ If there is any static sparking or you feel an electric shock while using this equipment, **STOP DISPENSING IMMEDIATELY**. Do not use the equipment until you identify and correct the problem.
- ❑ Provide fresh air ventilation to avoid the buildup of flammable fumes from solvents or the fluid being dispensed.
- ❑ Keep the dispense area free of debris, including solvent, rags, and gasoline.
- ❑ Do not smoke in the dispense area.

MOVING PARTS HAZARD

Moving parts can pinch or amputate your fingers.

- ❑ Keep clear of all moving parts when starting or operating pumps.
- ❑ Before servicing the equipment, follow the **Pressure Relief Procedure** to prevent the equipment from starting unexpectedly.

LUBE TRUCK OPERATING INSTRUCTIONS **(AIR SYSTEM ONLY.)**

Start Truck Engine And Apply Parking Brake.

CAUTION DUE TO VIBRATIONS INCURRED DURING TRANSPORTATION, VISUALLY CHECK FOR LEAKS IN HYDRAULIC / AIR SYSTEM PRIOR TO PLACING UNIT IN SERVICE.

Engage PTO by depressing clutch pedal and placing PTO Switch to the in position. Make sure that the light comes on. Release clutch slowly, the hydraulic side of the unit is now live and under pressure. (PTO will not engage when chassis air pressure is under 90psi)

PTO MAINTENANCE WARNING

Periodic PTO MAINTENANCE is required by the owner/operator to ensure proper, safe and trouble free operation.

1. **DAILY:** Check all air, hydraulic and working mechanisms before operating PTO. (PERFORM MAINTENANCE as required!)
2. **MONTHLY:** Inspect for possible leaks and tighten all air, hydraulic and mounting hardware, if necessary. Torque all bolts, nuts, etc. to Chelsea specifications. Insure that splines are properly lubricated, if applicable. (PERFORM MAINTENANCE as required!)

Diversified Fabricators, INC. will not be responsible for any damage due to the overloading of this auxiliary power product; failure to perform preventative maintenance; damage due to abuse, misapplication or misuse; or improper operation of the power take-off and ancillary equipment.

WARRANTY: Failure to comply entirely with the provisions set forth in the provided Owner's Manual will result in voiding ALL WARRANTY consideration.

Warning: Air Compressor starts when PTO is engaged (compressor is hydraulically driven using direct mount pump on PTO.) Make sure nothing is in or around the compressor that could become entangled with the belts and pulleys.

Caution: The hydraulic systems are now under pressure, and can be individually controlled from the reel compartment or from dovetail of the unit.

Air Compressor *Standard Operating and* *Maintenance Procedures.*

Warnings:

- Check oil level daily. Sight glass is located on compressor.
- Use only synthetic blend compressor oil (SAS 30-1)
- Check and clean filters weekly.
- Drain air tank, check filters and belts on a daily basis.
- Replace worn and damaged hoses and filters immediately.
- Replace with only factory replacement parts. Do not adjust factory set cut in/out pressure settings.

Caution!!!!

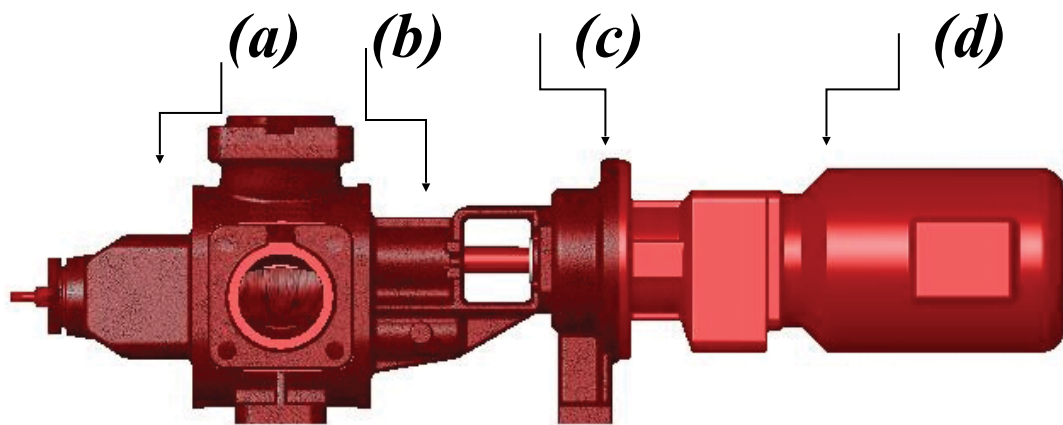
Do Not Use For Breathing Air

Fuel Pump Standard Operation Procedure:

The Diesel Fuel Pump is hydraulically driven off the PTO and live when PTO is engaged and the control valve is pulled out (push-pull control valve is located and labeled at reel location)

- Each fuel tank has an air operated safety valve mounted to the outlet of the tank.
- To change fuel filters and clean out inline strainers, the switch needs to be in the off position.
- To pump fuel the valve needs to be open (pulled out).
- The fuel shutoff valve will be the first air valve on your manifold labeled fuel shutoff
- With the safety valve open and the fuel valve pulled out you are now ready to pump fuel.

**(a)-Roper fuel pump/ (b)-Grease fitting
(c)-Coupling (d) –Hydraulic motor**

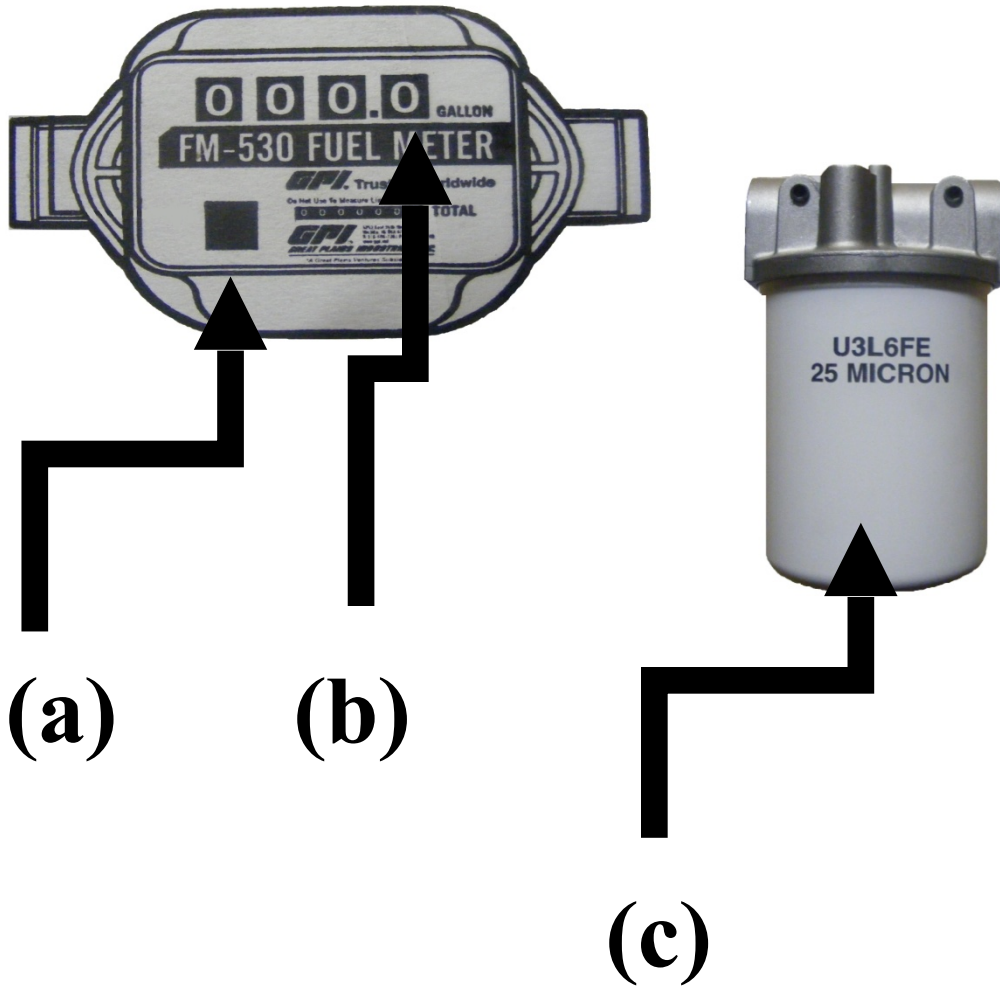


Roper model#3611

Warnings:

- Pull hose off reel by the hose, not the nozzle.
- In case of hose and or pump failure, shut off fuel safety valve and hydraulic system.(PTO)
- Fire and explosion hazard. Keep fire extinguishers accessible.
- Clean up any spills immediately.
- Clean inline Y-strainers weekly.

- Change fuel filters monthly.



(a) Meter Reset

(b) Gallons Pumped

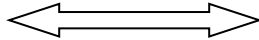
(c) Filter

Evacuation System. Standard Operating Procedures.

- The evac pump is hydraulically driven & operational when PTO engaged and control is pulled. (Push pull valve is and labeled at reel location.)
- The unit comes with evac tubes for you to



is
valve
located
three
use.



Off load

Load



To load truck tank through reel:

- Remove all hose that is supplied on the hose reel. (this is to make your evac system work at optimum performance).
- Move the evac control lever to the right.

- Make sure used filter box is turned off.
- Install evac nozzle to cam-loc and secure.
- Place nozzle in drain pan to be emptied.
- Turn on evac system (push/pull located and labeled at reel location)
- Open ball valve located at the end of the hose.
- When finished, shut off hose first to prevent backflow.
- Shut off evac pump.

To empty used filter box (if equipped)

- Move evac control lever to the right.
- Make sure hose reel is off.
- Turn on evac pump.
- Open 1/2" ball valve on right side of evac reel.
- When filter box is emptied, shut off ball valve.
- Turn off evac system.

To off load trucks evac system:

- Place evac hose into your bulk used oil holding tank.
- Move evac control lever to the left.
- Turn on the evac system.
- Open ball valve located on the end of the hose.
- Waste oil being pumped out is under pressure, do not leave hose unattended.
- When tank is emptied, turn off ball valve.
- Turn off evac system.

Reel Compartment Drains:

- Each truck equipped with a reel enclosure has an evac drain located under the rear bumper. Connect evac reel, open ball valves, use evac system to drain any fluid from the reel enclosure.
- To drain the nozzle holder, lock evac reel to the pipe on the right hand side and evac excess fluid out.

Warnings:

- Pull hose off reel by hose not the nozzle.
- Never leave hose unattended.
- Do not run pump dry (this will damage the pump seals).

Troubleshooting:

- **Evac will not load trucks tank.**

Check used filter box, it must be in the off position. If open, the pump will pull air in and pump will lose its prime. Check to make sure evac lever is in the load position. Check to see if the 1" Y- strainer (located at hose end) is clean. Make sure you pull all hose off hose reel.

Evac will not off load.

Check to make sure control lever is in the off load position. Make sure ball valve on hose is open. Check the Y-strainer located at the end of the hose and clean if necessary. Check under tank, make sure tank valve is open.

AIR CONTROLS

(Center valve bank in reel compartment contains controls for all oil / grease / air reels.)

- **By pulling individual control levers from front to back, the function (indicated by the label) is now operational. (fig. A)**
- **Each air operated pump has a separate pressure regulator/water separator / lubricator in-line prior to air supply reaching the pump.(factory set for optimum performance)(fig B)**
- **Water drains from water separator each time pump is shut off.(a)**
- **Check oil level in each lubricator daily.(b)**
- **Check and replace any worn and/or damaged air system parts.**
- **There are two gauges: one at the tank location and one at the air manifold.**



(A)

(B)

OIL DELIVERY SYSTEM:



- Each oil system on the truck is tagged to the corresponding reel and tank. Tags are located on selector valve, reel rollers, and splash guard on tank.
- Locate oil to be dispensed
- Pull air valve on manifold to turn on desired oil pump. (air pumps factory set for optimum performance)
- Pull hose off of reel by the hose, not the nozzle.
- You are now ready to pump oil.

- Check oilers daily. (Located on right side of regulator).

Oil Delivery Troubleshooting:

- Oil delivery too slow. Check inline filter in nozzle for contaminations.
- Check air regulator for proper air pressure. (45psi-65psi)
- Check nozzle tip - make sure tip is open.
- Check to make sure tank valve (located on bottom of tank) is open.
- Make sure air valve is pulled completely open.

Grease System

Air operated 400lb and 120lb.

Warning: the grease system is under high pressure. Relieve system pressure before attempting any service. Fluid injection hazard.



- Make sure follower plate is installed in grease barrel, and barrel is tightly fastened to truck.

- Make sure hoses are connected to their proper location, and coupled correctly.
- Pull selector valve labeled grease.
- Pull hose off reel by hose.
- You are now ready to pump grease.

Grease Barrel heater. (If equipped)

- Grease barrel heater works off the cooling system of the truck.
- To turn off heater, the manifold is located under the hood in the engine compartment.
- During the first 90 hours of service, keep a check on the radiator and top off as needed.

WATER / ANTIFREEZE SYSTEM

(IF EQUIPPED)

- To operate the water / antifreeze system, open manifold valve labeled water / antifreeze.
- Pull hose off reel by the hose and begin pumping.

- **Water pumps are equipped with a pump drain to prevent pump failure in freezing temperatures.**
- **Drains located in reel enclosure.**
- **Inlet fluid strainers need to be cleaned weekly.(poly tank models only)**
- **Stainless steel tank strainers are built into the tanks.**

HYDRAULICLY DRIVEN PRESSURE WASHERS
STANDARD OPERATING PROCEDURES.
(IF EQUIPPED)

WARNING!!!

- **HIGH PRESSURE FLUID WARNING.**
- **FLUID INJECTION WARNING.**
- **EXTREME TEMPERATURE WARNING (WHEN EQUIPPED WITH HEATER.)**
- **WEAR PROTECTIVE CLOTHING. (GLOVES / GLASSES)**
- **RELIEVE PRESSURE FROM SYSTEM WHEN DONE.**

OPERATION:

- Open hydraulic valve labeled pressure washer.
- Pull hose off the reel by the hose.
- Couple pressure washer wand to hose.
- If using soap, place inductor tube in soap container.
- You are now ready to wash.
- When shutting down, turn off hydraulic valve and open nozzle to relieve pressure on system.

Caution:

- Check oil level before each use.
- Do not adjust factory pressure settings.
- Inspect hose before each use.

MAINTENANCE INSTRUCTIONS AND SERVICE SCHEDULING.

Air Compressor:

- Check oil level daily.
- Drain condensate from water separators daily.
- Check belts daily.
- Clean air filters weekly. Change as needed.
- Check safety valve manually to see that it does not stick.
- Check entire system weekly for vibrations, leaks, and worn belts.
- Change oil every three months. Use SAS 30-1 compressor oil.
- For excessively dusty conditions, check all above daily.

FUEL PUMP:

- Clean Y-strainer monthly
- Change fuel filter monthly or every 30,000 gallons of fuel pumped. If you notice a change in the flow (gpm) change filter.
- Grease fuel pump monthly.
- Check pump to motor coupling, weekly.
- Check for leaks daily.
- Check hoses daily.

POWER TAKE OFF:

- Check for leaks daily
- Check for loose bolts daily.
- Check braces and their bolts daily.

AIR SYSTEMS:

- Check oilers daily.(located on regulators)
- Check for leaks daily.
- Check for proper pressure weekly.
- Check air dryer (if equipped) weekly.

Evac System:

- Clean y-strainer daily.(located on hose end)
- Check hoses daily.
- Check pump for leaks daily.
- Check filter box daily.

Body :

- Check hydraulic oil daily. Use only Max-Flow AW-46 oil.
- Check for leaks daily.
- Check sight gauges daily.
- Drain fuel rollovers daily.
- Check body tie down bolts weekly.
- Check tank tie down bolts weekly.
- Check fire extinguishers and service as needed. Weekly.

DIVERSIFIED FABRICATORS, INC. is hereinafter called DFI.

The products manufactured by DFI, exclusive of used or re-built machinery or equipment, are subject to the following warranty:

a) Warranty.

DFI warrants all products manufactured by it to be free from defects in material and manufacture at the time of shipment and for twelve (12) months from date of delivery to customer, and provided that the product is in normal use and service. DFI will furnish to the customer without charge, f.o.b. Griffin, Georgia replacements for such parts as DFI finds to have been defective at the time of shipment, or at DFI's discretion, will make repairs to such parts, provided that, upon request, such parts are returned, transportation prepaid, to the factory at Griffin, Georgia. THIS WARRANTY SHALL NOT BE EFFECTIVE IF THE BUYER IS IN DEFAULT AS OUTLINED BELOW.

This warranty is furnished to customer **only if work is performed** at our manufacturing facility in Griffin, Georgia.

This warranty shall not apply to any product which has been subjected to misuse, misapplication; neglect (including but not limited to use of unauthorized parts or attachments), unauthorized adjustments, or unauthorized repair. Engines, motors, and any accessories furnished with DFI's products, but which are not manufactured by DFI, are not warranted by DFI but are sold only with the express warranty, if any, of the manufacturer thereof. THE FOREGOING IS IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED (INCLUDING THOSE OF MERCHANTABILITY AND FITNESS OF ANY PRODUCT FOR A PARTICULAR PURPOSE), AND OF ANY OTHER OBLIGATION OF LIABILITY ON THE PART OF DFI. FURTHERMORE, THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF.

b) Limitation of Liability

It is expressly understood that DFI's liability for its products, whether due to breach of warranty, negligence, strict liability, or otherwise, is limited to the furnishing of such replacement parts, and DFI will not be liable for any other injury, loss, damage, or expense, whether direct or consequential, including but not limited to loss of use, income, profit, or production, or increased cost of operation, or spoilage of or damage to material, arising in connection with the sale, installation, use, or inability to use, or the repair or replacement of, DFI's products.

Any operation expressly prohibited in the operating instructions or safety manual furnished with the machine, or any adjustment, or assembly procedures not recommended or authorized in the operating or service instructions shall void such warranty.

c) THIS WARRANTY IS VOID UNLESS "DIVERSIFIED FABRICATORS WARRANTY" CARD IS COMPLETED AND RETURNED TO THE FACTORY AT GRIFFIN, GEORGIA WITHIN 30 DAYS AFTER DELIVERY OF UNIT TO CUSTOMER.

d) The laws of the State of Georgia apply to this transaction. DFI shall be granted by the Purchaser as listed on the front side, a purchase money security interest in the machinery, equipment, and parts listed and maintains the right to file a U.C.C.-1 financing statement to perfect said interest. Buyer hereby waives signature for the execution of the U.C.C.-1 and grants DFI a limited Power of Attorney to execute on Buyer's behalf a U.C.C.-1 financing statement if necessary. As this is a commercial transaction, DFI maintains the right to declare the indebtedness created by this invoice in default if payment is not made within forty-five (45) days or if the Buyer breaches any other term of this invoice.

e) In the event of default, DFI shall have the right of self help repossession in addition to other remedies allowed under the laws of the State of Georgia. Additionally, DFI shall have the right to apply for an immediate writ of possession pursuant to O.C.G.A. §44-14-260 et.seq. DFI shall be entitled in addition to the principal and interest reflected on the front of the invoices all costs of collection including 15% of the unpaid principal and interest as attorney fees.

f) Buyer listed on the front side of this invoice hereby agrees that this is a commercial transaction and waives any and all rights to notice of seizure by DFI if payment is not made within forty-five (45) days from the date of delivery on the front side of the invoice. Additionally, Buyer hereby waives and posting of bond by DFI for the issuance of the immediate writ of possession as outlined in O.C.G.A. §44-14-260 et.seq.

ALWAYS GIVE PART NAME, NUMBER, AND EQUIPMENT SERIAL NUMBER WHEN ORDERING PARTS

GQ-0155938B (06/02)

All accounts due and payable on terms as stated on the front of this invoice shall incur a finance charge of

1½% per month (18% Annual Percentage Rate) after 30 days from the date delivered.

A handling fee will be charged on all correctly filled orders returned for credit.

THANK YOU - WE APPRECIATE YOUR CONFIDENCE!

CONTACT INFORMATION

**Diversified Fabricators, Inc.
1325 US Highway 41 Bypass South
Griffin, Ga. 30224
1-800-526-6480
Fax: 1-770-412-0459**

**Service Manager:
Parts Manager
President:**

**Chris Moerman
Mark McBroom
Ralph Jones**

**cmoreman@dfiequipment.com
mmcroom@dfiequipment.com
rjones@dfiequipment.com**