7500TBD
INDUSTRIAL DIESEL GENERATOR
OPERATOR’S MANUAL

WARNING
IT IS EXTREMELY IMPORTANT TO READ AND UNDERSTAND THE ENTIRE CONTENTS OF THIS OPERATOR’S MANUAL BEFORE ATTEMPTING TO OPERATE THE PRODUCT. THIS EQUIPMENT IS POTENTIALLY HAZARDOUS AND COULD CAUSE PHYSICAL INJURY OR EVEN DEATH IF IMPROPERLY USED.
## WARNING

**DO NOT OPERATE EQUIPMENT UNTIL READING & UNDERSTANDING OPERATOR’S MANUAL!**

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## IMPORTANT WARNING SYMBOLS

- Operator’s Manual
- Toxic Fumes
- Store in Dry Place
- Keep Dry
- Ground Generator
- Fire
- Hot Surfaces
- Proper Lifting
- Ground Properly

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The following signal words and meanings are intended to explain the level of risk associated with this product:

<table>
<thead>
<tr>
<th>Signal Word</th>
<th>Meaning</th>
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<tr>
<td><strong>DANGER</strong></td>
<td>Indicates a hazard which, if not avoided WILL result in death or serious injury.</td>
</tr>
<tr>
<td><strong>WARNING</strong></td>
<td>Indicates a hazard which, if not avoided, could result in death or serious injury.</td>
</tr>
<tr>
<td><strong>CAUTION</strong></td>
<td>Indicates a hazard which, if not avoided, could result in minor or moderate injury.</td>
</tr>
</tbody>
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IMPORTANT SAFETY INFORMATION

MANUFACTURER SHALL NOT BE RESPONSIBLE FOR ANY CONSEQUENCES RESULTING FROM IMPROPER USE OF THIS EQUIPMENT. THE OPERATOR IS REQUIRED TO READ THE ENTIRE CONTENTS OF THIS MANUAL BEFORE ATTEMPTING TO OPERATE THE UNIT. IF THE OPERATOR DOES NOT COMPLETELY UNDERSTAND THE INSTRUCTIONS AND ALL OF THE HAZARDS OF OPERATING THIS UNIT AFTER READING THIS MANUAL, OPERATOR MUST CALL THE FACTORY TO ANSWER THESE QUESTIONS TO OPERATOR’S COMPLETE SATISFACTION BEFORE PROCEEDING.

READ AND COMPLETELY UNDERSTAND ENTIRE CONTENTS OF THIS OPERATOR’S MANUAL AND BECOME FAMILIAR WITH THE UNIT BEFORE ATTEMPTING TO START USING THIS EQUIPMENT! IT IS YOUR RESPONSIBILITY TO KNOW ITS APPLICATIONS, LIMITATIONS, AND HAZARDS! CALL THE FACTORY WITH ANY QUESTIONS.

A MINIMUM OF THREE (3) FEET OF CLEARANCE ON ALL SIDES IS REQUIRED.

THIS UNIT IS ONLY TO BE USED FOR ITS INTENDED PURPOSE, ANY OTHER APPLICATIONS COULD VOID WARRANTY.

USER ACCEPTS RESPONSIBILITY FOR INJURIES AND/OR DAMAGE RESULTING FROM OTHER APPLICATIONS.

INSPECT UNIT PRIOR TO USE FOR ANY UNSAFE CONDITIONS.

FOLLOW ALL CODES FOR THE SAFE OPERATION OF THIS EQUIPMENT, BOTH LOCAL AND FEDERAL.

ONLY PEOPLE THAT ARE WELL ACQUAINTED WITH THE RULES OF SAFE OPERATION SHOULD USE THE GENERATOR.

KEEP CHILDREN AWAY FROM THE UNIT.

WEAR SAFETY GLASSES AND HEARING PROTECTION.

DO NOT STAND ON THE UNIT OR ATTEMPT TO USE IT AS A HAND HOLD.

REPLACE OR REPAIR ANY DEFECTIVE PARTS BEFORE USING.

DO NOT FILL FUEL TANK IF ENGINE IS HOT.

THE ENGINE GOVERNOR IS PRESET. DONOT TAMPER WITH THE SETTING. EXCESSIVELY FAST SPEEDS WILL SEVERELY SHORTEN THE LIFE OF THE ENGINE AND MAY BEHAZARDOUS.

!!! FOR OUTDOOR USE ONLY !!!

NEVER USE THIS UNIT INSIDE OF ANY BUILDING, ENCLOSURE OR A RECREATION VEHICLE (RV). NO MODIFICATIONS WILL ELIMINATE THE DANGER OF POSSIBLE CARBON MONOXIDE POISONING, FIRE OR EXPLOSION

!!! WARNINGS AND CAUTIONS !!!

IN THIS MANUAL AND OR DECALS AND TAGS ON THE UNIT ARE NOT ALL INCLUSIVE. IT WOULD BE IMPOSSIBLE TO ANTICIPATE EVERY CIRCUMSTANCE THAT MIGHT INVOLVE A HAZARD HANDLING.

AMERICAN FAB INC TRAVELERS REST, SC
EQUIPMENT SPECIFIC WARNINGS

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Turn the UNIT OFF AND DISCONNECT THE BATTERY to prevent accidental starting.

- GENERATORS PRODUCE A VERY POWERFUL VOLTAGE THAT CAN CAUSE EXTREMELY DANGEROUS ELECTRICAL SHOCK. AVOID CONTACT WITH BARE WIRES, TERMINALS, ETC. NEVER PERMIT AN UNQUALIFIED PERSON TO OPERATE OR SERVICE THE GENERATOR.

- NEVER HANDLE ANY KIND OF ELECTRICAL CORD OR DEVICE WHILE STANDING IN WATER, WHILE BAREFOOT, WITH WET HANDS OR WHEN FEET ARE WET. DANGEROUS ELECTRICAL SHOCK COULD RESULT.

- THE NATIONAL ELECTRIC CODE REQUIRES THAT THE FRAME AND EXTERNAL CONDUCTIVE PARTS BE PROPERLY CONNECTED TO AN APPROVED EARTH GROUND. LOCAL ELECTRICAL CODES MAY VARY. CHECK WITH AN ELECTRICIAN FOR LOCAL GROUNDING REQUIREMENTS.

- USE A GROUND FAULT CIRCUIT INTERRUPTER IN ANY DAMP OR HIGHLY CONDUCTIVE AREA SUCH AS METAL DECKING OR STEEL WORK.

- DO NOT USE WORN, BARE, FRAYED OR OTHERWISE DAMAGED ELECTRICAL CORDS OR WIRING WITH THE GENERATOR. A DEFECTIVE CORD MAY RESULT IN ELECTRICAL SHOCK OR MAY CAUSE DAMAGE TO EQUIPMENT.

- DO NOT EXPOSE UNIT TO EXCESSIVE MOISTURE, DIRT OR CORROSIVE VAPORS. UNIT MUST BE OPERATED ON A LEVEL SURFACE

- ONLY OPERATE THIS UNIT OUTSIDE WITH ADEQUATE VENTILATION. THIS GENERATOR’S EXHAUST PRODUCES CARBON MONOXIDE GAS THAT CAN CAUSE UNCONSCIOUSNESS OR EVEN DEATH.

- NEVER STORE A GENERATOR WITH FUEL IN THE TANK WHERE FUEL VAPORS COULD BE IGNITED BY A FLAME, SPARK, OR PILOT LIGHT FROM AN APPLIANCE SUCH AS A FURNACE, WATER HEATER, OR CLOTHES DRYER.

- ALWAYS ALLOW A MINIMUM OF 3 FEET OF CLEARANCE ON ALL SIDES FOR VENTILATION WHILE UNIT IS OPERATING. ALLOW 3 FEET OF CLEARANCE FROM ALL COMBUSTIBLES.

- GENERATOR MUST ALWAYS BE STopped OR STARTED WITH ALL LOADS DISCONNECTED. START THE ENGINE AND LET IT STABILIZE BEFORE CONNECTING ANY LOADS. DISCONNECT ALL LOADS BEFORE SHutting DOWN THE GENERATOR.

- NEVER INSERT ANY OBJECT THROUGH THE COOLING SLOTS OF THE ENGINE. YOU COULD DAMAGE THE UNIT OR CAUSE INJURY.

NEVER OPERATE THE GENERATOR:
- IN WET OR RAINY CONDITIONS
- IN AN ENCLOSED COMPARTMENT
- IF CONNECTED DEVICES OVERHEAT
<table>
<thead>
<tr>
<th>Item Description</th>
<th>Wattage</th>
<th>Item Description</th>
<th>Wattage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Conditioning Unit (12,000 btu)</td>
<td>1700</td>
<td>Impact Wrench</td>
<td>500</td>
</tr>
<tr>
<td>Battery Charger</td>
<td>500</td>
<td>*Jet Pump</td>
<td>800</td>
</tr>
<tr>
<td>Belt Sander</td>
<td>100</td>
<td>Lawn Mower</td>
<td>1200</td>
</tr>
<tr>
<td>Chain Saw</td>
<td>1200</td>
<td>Light Bulb</td>
<td>100</td>
</tr>
<tr>
<td>Coffee Maker</td>
<td>900</td>
<td>Microwave Oven</td>
<td>700</td>
</tr>
<tr>
<td>Air Compressor (1HP)</td>
<td>2000</td>
<td>*Milk Cooler</td>
<td>1100</td>
</tr>
<tr>
<td>Air Compressor (3/4HP)</td>
<td>1800</td>
<td>Oil Burner on Furnace</td>
<td>300</td>
</tr>
<tr>
<td>Air Compressor (1/2HP)</td>
<td>1400</td>
<td>Oil Fired Space heater (140,000 BTU)</td>
<td>400</td>
</tr>
<tr>
<td>Curling iron</td>
<td>700</td>
<td>Oil Fired Space heater (85,000 BTU)</td>
<td>225</td>
</tr>
<tr>
<td>Freezer</td>
<td>700</td>
<td>Oil Fired Space heater (30,000 BTU)</td>
<td>150</td>
</tr>
<tr>
<td>Disc Sander</td>
<td>1200</td>
<td>*Airless Paint Sprayer (1/3 HP)</td>
<td>600</td>
</tr>
<tr>
<td>Edge Trimmer</td>
<td>500</td>
<td>Handheld airless Paint Sprayer</td>
<td>150</td>
</tr>
<tr>
<td>Electric nail gun</td>
<td>1200</td>
<td>Radio</td>
<td>50</td>
</tr>
<tr>
<td>Electric Range</td>
<td>1600</td>
<td>Slow Cooker</td>
<td>200</td>
</tr>
<tr>
<td>Furnace Fan (1/3HP)</td>
<td>1200</td>
<td>*Submersible Pump (1-1/2 HP)</td>
<td>2800</td>
</tr>
<tr>
<td>Hair Dryer</td>
<td>1200</td>
<td>*Submersible Pump (1 HP)</td>
<td>2000</td>
</tr>
<tr>
<td>Hand Drill</td>
<td>1200</td>
<td>*Submersible Pump (1/2 HP)</td>
<td>1500</td>
</tr>
<tr>
<td>Television</td>
<td>500</td>
<td>Sump Pump</td>
<td>600</td>
</tr>
</tbody>
</table>
# OPERATION

<table>
<thead>
<tr>
<th>CHECK AND FILL OIL</th>
<th>CHECK AND FILL FUEL</th>
<th>CHECK/REPLACE FILTER</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAUTION</strong></td>
<td><strong>WARNING</strong></td>
<td><strong>CAUTION</strong></td>
</tr>
<tr>
<td>DO NOT ATTEMPT TO START THE ENGINE BEFORE CHECKING OIL</td>
<td>DO NOT OVERFILL! LEAVE ROOM FOR FUEL EXPANSION. NEVER FILL FUEL INDOORS. NEVER FILL FUEL WHEN ENGINE IS HOT OR RUNNING. DONOTSMOKEORFILL.</td>
<td>DO NOT CLEAN AIR FILTER WITH ANY TYPE OF DETERGENT.</td>
</tr>
<tr>
<td>1. Place generator on a level surface.</td>
<td>1. Fill with diesel fuel only</td>
<td>1. Remove cover panel.</td>
</tr>
<tr>
<td>2. Clean area around oil fill opening.</td>
<td>2. Clean area around fuel cap.</td>
<td>2. Loosen wing nut and remove air filter cover.</td>
</tr>
<tr>
<td>3. Remove the dipstick.</td>
<td>3. Remove fuel cap.</td>
<td>3. Never wash air cleaner with any kind of detergent or cleaning solvent.</td>
</tr>
<tr>
<td>4. Wipe the dipstick clean.</td>
<td>4. Add diesel fuel to fuel tank.</td>
<td>4. Air filter should be changed if engine performance decreases or color of exhaust changes.</td>
</tr>
<tr>
<td>5. Reinsert dipstick and check oil level.</td>
<td>5. DO NOT overfill. Do not fill above the red plug inside the fuel tank filter (this allows for fuel expansion)</td>
<td>5. Never run engine without air filter. This will cause rapid engine wear.</td>
</tr>
<tr>
<td>6. CLOSE OIL CAP.</td>
<td>7. Wipe up any spilled diesel fuel.</td>
<td></td>
</tr>
<tr>
<td>7. Change oil as published</td>
<td></td>
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</tr>
</tbody>
</table>

![Oil Dipstick Image]

## STARTING THE ENGINE

- BE SURE UNIT IS AT A LEVEL, WELL VENTILATED POSITION
- CHECK FLUIDS FOR PROPER LEVELS.
- TURN ON FUEL VALVE. (FIGURE #3)
- PUT THROTTLE LEVER IN THE RUN POSITION. (FIGURE #5)
- TURN THE IGNITION KEY TO THE “START” POSITION.
- ONCE ENGINE HAS STARTED RETURN THE KEY TO THE “ON”.
- LET ENGINE STABILIZE BEFORE ATTACHING ANY APPLIANCES.
- MAKE SURE DEVICES TO BE CONNECTED ARE IN GOOD WORKING ORDER AND IN THE “OFF” POSITION BEFORE CONNECTING TO THE GENERATOR.

## STOPPING THE ENGINE

- TURN OFF ALL ELECTRICAL DEVICES CONNECTED TO THE GENERATOR.
- **WARNING: DO NOT START OR STOP GENERATOR WITH ELECTRICAL DEVICES PLUGGED IN.**
- ALLOW THE GENERATOR ENGINE TO RUN AT A ‘NO LOAD’ CONDITION FOR SEVERAL MINUTES TO STABILIZE INTERNAL ENGINE TEMPERATURE BEFORE STOPPING.
- TURN THE ON/OFF SWITCH ON THE CONTROL PANEL TO THE “OFF” POSITION.
- TURN FUEL VALVE TO THE “OFF” POSITION.
- KEEP THE GENERATOR CLEAN AND DRY. USE A DAMP CLOTH TO CLEAN EXTERIOR SURFACES. REMOVE CAKED ON DIRT WITH A SOFT BRUSH.
- NEVER SPRAY WITH WATER. WATER WILL CAUSE ELECTRICAL SHORTS IN THE ELECTRICAL SYSTEM

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**DANGER**

Fuel tank should never be filled indoors. Avoid spilling fuel on hot engine and allow engine to cool completely before fueling. Never fill fuel tank when engine is running or when hot. Do not light a cigarette or smoke when filling the fuel tank. Gasoline vapors are highly explosive.
DIESEL GENERATOR ENGINES REQUIRE 15W – 40 TYPE CJ-4 MOTOR OIL.

MAINTENANCE SCHEDULE

<table>
<thead>
<tr>
<th></th>
<th>DAILY</th>
<th>MONTHLY</th>
<th>3 MONTHS</th>
<th>6 MONTHS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check Air Filter</td>
<td>×</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check For Oil Leaks</td>
<td>×</td>
<td>×</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Replace Air Filter</td>
<td></td>
<td></td>
<td></td>
<td>×</td>
</tr>
<tr>
<td>Change Oil</td>
<td></td>
<td></td>
<td></td>
<td>×</td>
</tr>
</tbody>
</table>

*First oil change should be after 5 hours. After initial break-in period change oil every (30) hours.

**DANGER**

Stored batteries give off explosive hydrogen gas while recharging. An explosive mixture will remain around the battery for a period of time after it has completed recharging. Any spark can ignite the hydrogen and cause an explosion. Such an explosion can shatter.

**DANGER**

Avoid smoking, open flames, sparks or any other source of heat around a battery. Wear protective goggles, rubber apron and rubber gloves when working around a battery. Battery electrolyte fluids is an extremely corrosive sulfuric acid solution than can cause severe burns. If a spill
<table>
<thead>
<tr>
<th>Problem</th>
<th>cause</th>
<th>Solution</th>
</tr>
</thead>
</table>
| Engine is running but no power output is available. | 1. Circuit breaker is open.  
2. Poor connection or defective cord set.  
3. Connected device is bad.  
2. Check & repair.  
3. Connect another device that is in good condition.  
4. Contact service center. |
| Engine runs good until loads are connected, then bogs down. | 1. Short circuit in a connected load.  
2. Overloaded generator.  
3. Engine speed is too slow.  
2. See ‘Connecting electrical loads’ section of manual.  
3. Contact service center.  
4. Contact service center. |
| Engine will not start or engine starts but runs rough. | 1. On/Off Switch is turned ‘OFF’.  
2. Battery is dead  
3. Dirty air cleaner.  
4. Out of fuel.  
5. Stale fuel.  
6. Not enough speed or force is used for recoil start.  
7. Water in fuel.  
8. Speed control is not set to “Run”.  
9. Low Oil Level.  
10. Engine has lost compression. | 1. Turn On/Off Switch to ‘On’.  
2. Charge or replace it.  
3. Clean air filter  
4. Fill fuel tank.  
5. Drain fuel tank and refill.  
6. Read and follow directions.  
7. Drain and refill tank.  
8. Move speed control to “Run” position.  
9. Add oil to proper level.  
10. Contact service center. |
| Engine shuts down during Operation. | 1. Out of fuel.  
2. Fault in engine.  
3. Low oil level. | 1. Fill fuel tank.  
2. Contact service center.  
3. Add oil to proper level. |
| Engine lacks power | 1. Load is too high.  
2. Dirty air filter.  
3. Engine needs to be serviced. | 1. See ‘Connecting electrical loads’ section of manual.  
2. Replace the air filter.  
3. Contact service center. |

⚠️ **DANGER**

When working on the generator, always disconnect cable from the battery.

NEVER cover the generator while engine and exhaust areas are warm.

⚠️ **CAUTION**

Hot oil may cause burns. Allow engine to cool before draining oil. Avoid prolonged or repeated skin exposure with used oil. Thoroughly wash exposed areas with soap.
### Bleeding Instructions

1. With the fuel valve in the off position take off the rubber fuel line off the fuel pump port.
2. Open fuel valve and let rubber fuel line fill up with diesel fuel. Quickly replace rubber fuel line on the fuel pump port.
3. Follow starting procedure.

**If the unit still won’t start,**

1. Loosen remove the steel fuel line compression nut so you can see the top of the fuel pump. (Figure #6)
2. With the throttle lever in the run position turn over the engine. Diesel fuel should squirt out to the top of fuel pump.

*If no fuel is coming out of pump retry bleeding procedures, if still no fuel, contact customer service.*
3. Reconnect fuel line and follow starting procedures.

**Fuel pumping but unit will not start,**

1. Follow the steel fuel line up to the injector.
2. Disconnect the fuel line from the injector with a 17mm wrench (figure #7).
3. Remove the fuel injector from head assembly and inspect it. Make sure injector tip is clean and free from debris. Invert it. Reconnect metal fuel line. (Figure #8)
4. With the throttle lever in the run position turn over the engine. You should have four ports of fuel spraying from the injector tip.
5. Re-install injector in to the head assembly.
6. Follow starting procedures.

*If the fuel injector does not spray (possible bad injector)*

*If the fuel injector is functioning, look under the valve cover to see if the valves are function properly.*

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**Figure #6**

- Rubber Fuel Line
- Fuel Pump Port
- Steel Fuel Line
- Fuel Pump
- Throttle Lever

**Figure #7**

**Figure #8**

*Valve Cover Valve Settings*

- .012 – Intake
- .013 – Exhaust
**Remote Starting**

The ignition key has to be in the run position to operate the remote.

**WARNING**

**Battery Drain**

When the unit is not operating always keep the ignition key in the “OFF” position to avoid battery drain and accidental starting!
### WARRANTY

American Fab equipment is warranted to be free from defects in material and workmanship for a period of ONE year after date of purchase. The engine is warranted for a period of two years. See engine manual for details.

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Output</td>
<td>6300 watts</td>
</tr>
<tr>
<td>120v 20 amp receptacle</td>
<td></td>
</tr>
<tr>
<td>1- L14-30 Receptacle</td>
<td></td>
</tr>
<tr>
<td>1- L14-30 Auxiliary plug</td>
<td></td>
</tr>
<tr>
<td>1- 120 volt twist lock</td>
<td></td>
</tr>
<tr>
<td>Circuit Breaker Protection</td>
<td>74 Db. @ 10’</td>
</tr>
<tr>
<td>Electric Start Manual Recoil</td>
<td></td>
</tr>
<tr>
<td>418cc Diesel Engine</td>
<td></td>
</tr>
<tr>
<td>Steel Sleeve Cylinder</td>
<td></td>
</tr>
<tr>
<td>12.3 Gallon Fuel Tank</td>
<td></td>
</tr>
<tr>
<td>Approx. Run Time</td>
<td>34 hrs. @ 50%</td>
</tr>
<tr>
<td>Rpm</td>
<td>3600</td>
</tr>
<tr>
<td>Brushless Generator Head</td>
<td></td>
</tr>
<tr>
<td>Single Phase 60Hz</td>
<td></td>
</tr>
<tr>
<td>Low Oil Shut Down</td>
<td></td>
</tr>
<tr>
<td>Oil Capacity</td>
<td>1.2 US qts</td>
</tr>
<tr>
<td>Size</td>
<td>L-29” W-30” H-31”</td>
</tr>
<tr>
<td>Net. Weight</td>
<td>360lbs</td>
</tr>
<tr>
<td>Lockable Toolbox</td>
<td></td>
</tr>
<tr>
<td>Compartments Hex Key Locks</td>
<td></td>
</tr>
<tr>
<td>Engine Warranty</td>
<td>2 years</td>
</tr>
<tr>
<td>Equipment Warranty</td>
<td>1 year</td>
</tr>
</tbody>
</table>

Manufactured by:
American Fab Inc.
P.O. Box 1027
Travelers Rest, SC 29690
Customer Service: 1-800-845-4141