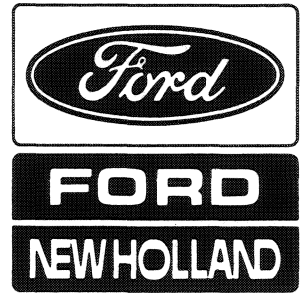


VERSATILE

Assembly Manual



(Includes Predelivery Information)

Tractor
1156



41115611

Reprinted

DELIVERY REGISTRATION

1. Complete the Predelivery Checklist and return it to Ford New Holland, Inc. as indicated on the back of the form.
2. Registration of the Cummins engine is required. Contact the Cummins distributors for the local custom of engine registration.
3. Explain the VERSATILE warranty to the operator.
4. Instruct the operator on care, maintenance, adjustments and safe operation of the tractor. Refer to both VERSATILE and Cummins operator's manuals.

GENERAL

Follow these instructions to install those parts removed or not originally installed. All parts and hardware are stored in the cab, battery compartment area, or in an extra shipping crate.

Follow the procedures in the listed sequence. Check each item off the checklist as it is completed.

SPECIAL TOOLS AND EQUIPMENT

Torque wrench 0 to 350 ft. lbs. (0 to 475 N·m) and a 4 to 1 torque multiplier.

LADDERS

Figure 1

Cab Ladder

1. Loosen the flange bolts securing the top of the ladder to the brackets on the fuel tank.
2. Remove the flange bolts from the inside of the rails at the bottom end of the ladder.
3. Pull the bottom of the ladder away from the fuel tank. Install the bottom ladder brackets with the flange bolts tightened securely.
4. Tighten the flange bolts at the top of the ladder and install two handrails to the top of the ladder with the flange bolts tightened securely.

NOTE: Install the long handrail on the left side of the ladder.

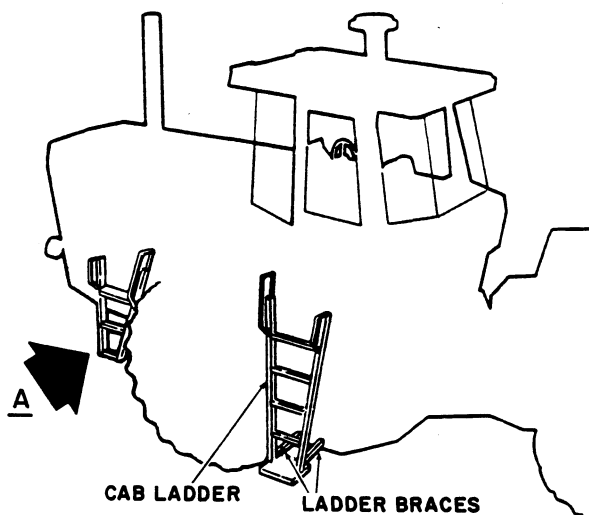
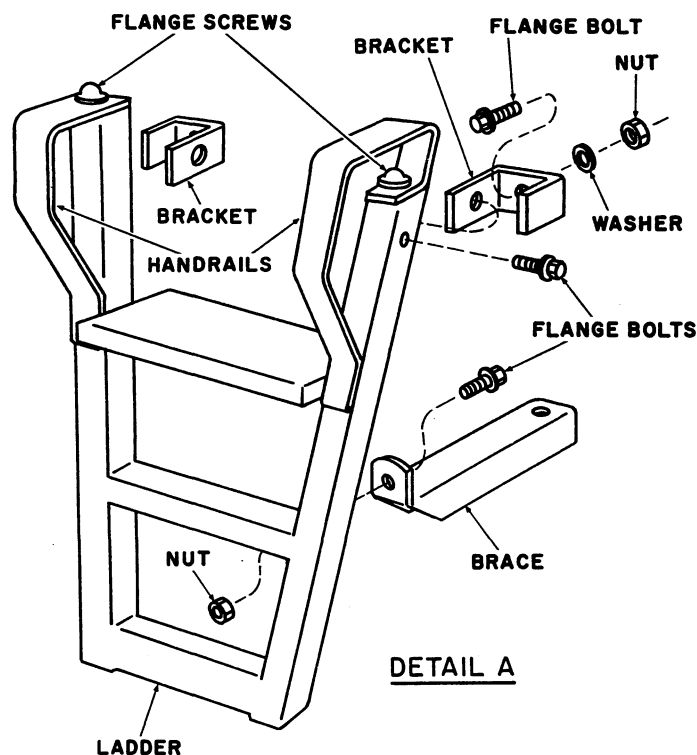


FIGURE 1

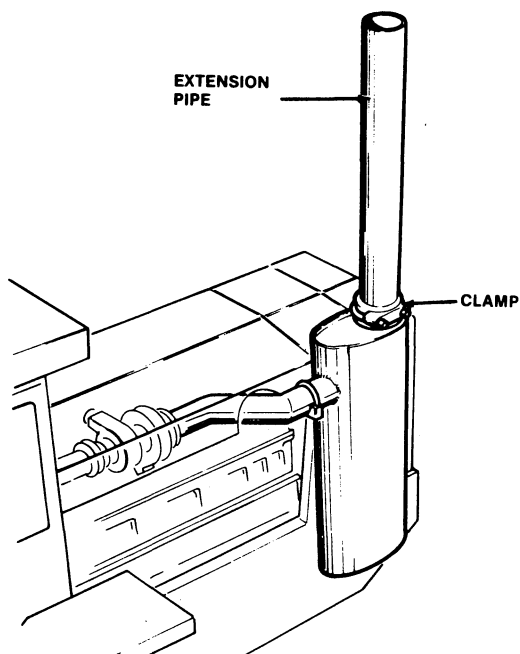


FIGURE 2

Engine Access Ladder

1. Align the holes on the brackets with the holes on the frame. Secure with flange bolts, washers, and hex nuts (Figure 1, Detail A).
2. Remove the bolt and nut from the underside of the frame. Align the brace with the hole and fasten with the hardware previously removed.
3. Fasten the ladder to the brackets and brace with the flange bolts and washers provided.
4. Align the holes on the handrails and secure with flange bolts.
5. Repeat this procedure for the ladder on the other side.

NOTE: Long handrail mounts on rear of ladder.

ENGINE EXHAUST STACK

Figure 2

1. Install the exhaust pipe extension to the muffler.

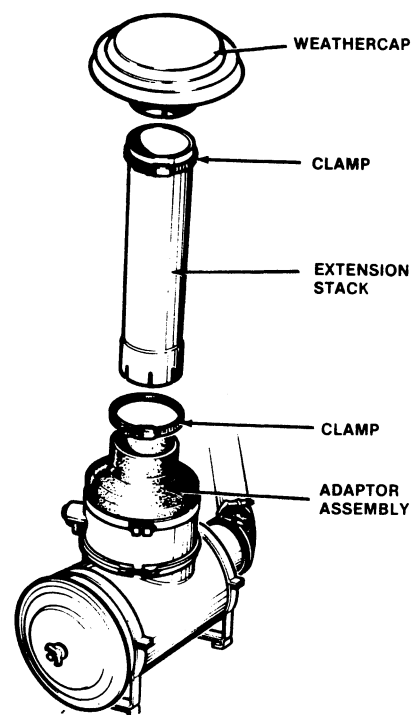


FIGURE 3

2. Install a muffler clamp to the joint where the muffler and exhaust pipe meet. Tighten securely.

ENGINE AIR INTAKE EXTENSION

Figure 3

1. Remove the weathercap from the engine air intake canister. Retain the gear clamp.
2. Install the weathercap to the top of the extension stack with the gear clamp.
3. Do not change the extension stack to the air cleaner assembly. Attach fuel tank breather securely to the air cleaner assembly with clamp.
4. Attach fuel tank breather to upper band bolt on precleaner housing.

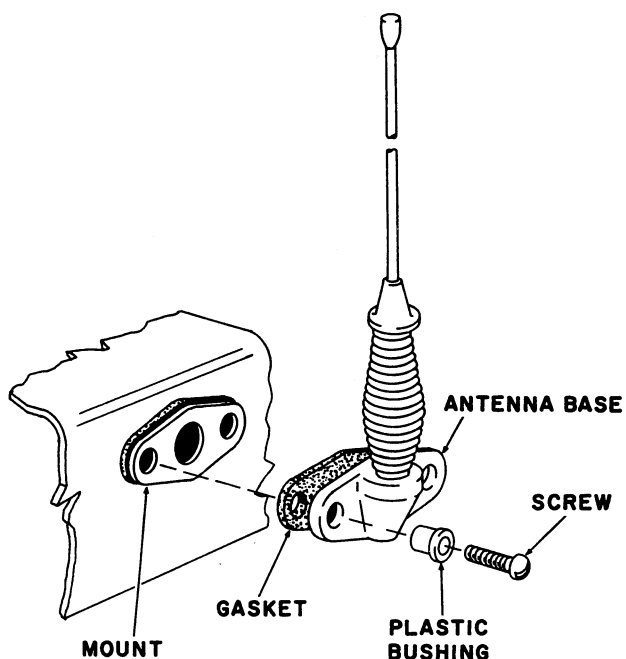


FIGURE 4

MOUNTING THE ANTENNA

Figure 4

1. Apply a gasket to the antenna.
2. Align the antenna base with the mount on the cab roof.
3. Install the antenna to the mount with two screws and plastic bushings tightened securely.

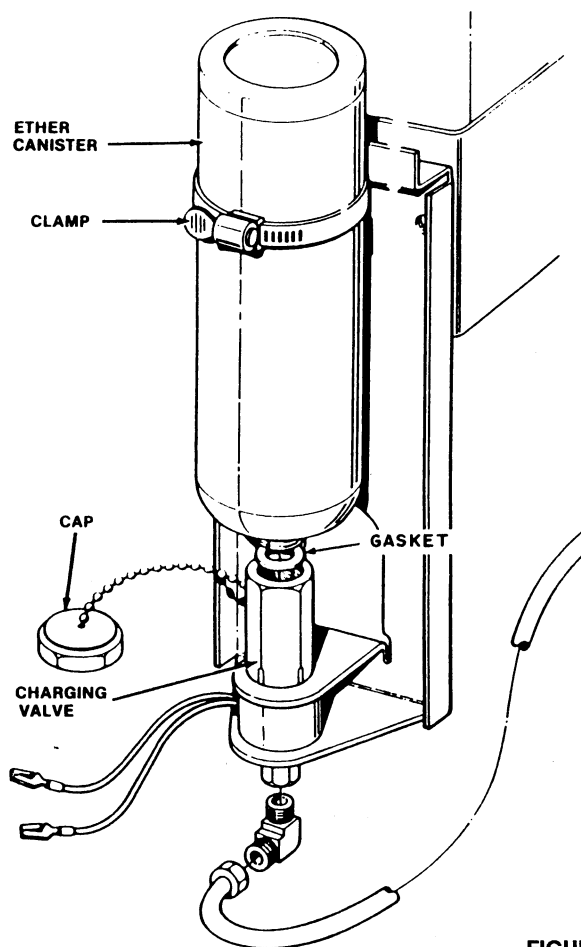
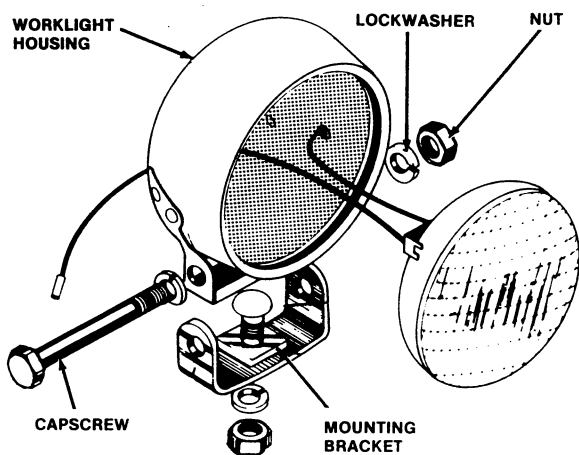
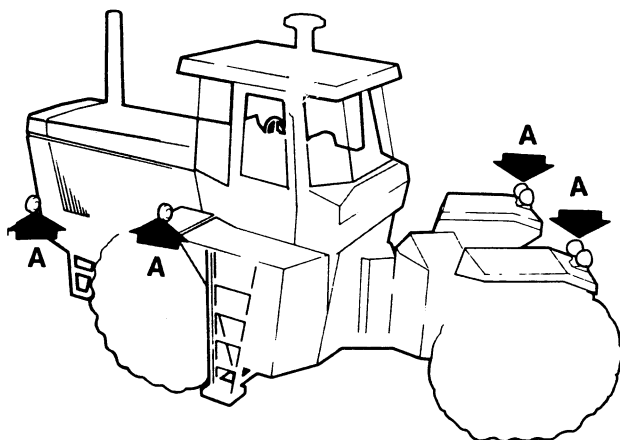


FIGURE 5

COLD STARTING AID

Figure 5

1. Remove the ether bottle from the clamp.
2. Remove the cap from the charging valve. Be sure the gasket is seated in the valve. Lubricate the gasket with oil.
3. Lower the ether bottle in the valve; screw it in clockwise. Secure the bottle tightening the clamp.



DETAIL A

FIGURE 6

INSTALLING THE WORKLIGHT

Figure 6, Detail A

NOTE: There are eight worklights to be installed.

1. Remove the nut and lock washer from the worklight stem and install the worklight to the rear fender. Install the nut and lock washer to the worklight.
2. Adjust the light as desired and tighten the nut securely.

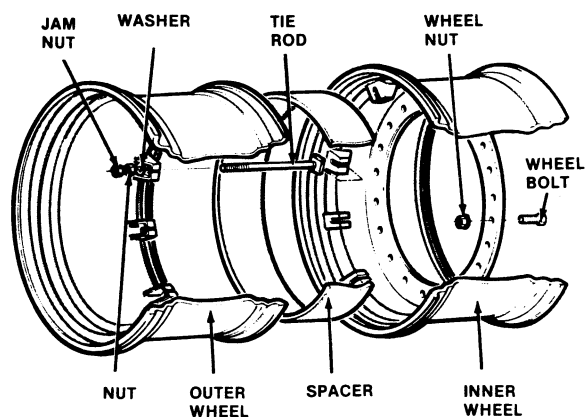


FIGURE 7

3. Remove the wire with spade connector from the harness near the worklight and connect the spade connector from the harness to the spade connector from the lamp stem.

IMPORTANT: Be sure the light wires are secured away from the tires.

4. Install the remaining worklights.

WHEELS

NOTE: Install the wheels so both inner and outer tire treads point in the direction of rotation.

30.5 x 32 Duals

Figure 7

1. Torque the wheel nuts to 325 ft. lbs. (440 N·m). Hold the stud securely to prevent rotation.
2. Place a jack under the axle pad area. Raise one side.

WARNING: ENGAGE THE ARTICULATION LOCK BEFORE LIFTING THE TRACTOR.

CAUTION: MAKE SURE THE PARK BRAKE IS SET AND THE TRACTOR IS ON LEVEL GROUND.

3. Line up the antirotation clips with the spacer. Tap with a hammer until the spacer remains in the inner wheel.

4. Roll the dual tire against the spacer and carefully rotate the dual until the rotation clips align.
5. Place two tie rods in the inner wheel bracket 180 degrees apart.

Place the outer end into the dual wheel clips. Place a washer and nut on the rods. Tighten lightly.
6. Install the remaining rods.
7. Tighten the rods in a cross torque pattern. Continue to torque until 220 ft. lbs. (295 N·m) is achieved.
8. After all duals are installed, drive the tractor for several minutes. Recheck the torque on all tie rods.
9. Install jam nuts. Torque to 150 ft. lbs. (200 N·m).

TABLE 1: Torque Setting for Wheels and Axle Mounting Bolts

Dual Wheel	Ft. Lbs.	N·m
Inner Wheel	325	440
Tie Rod Nut (20.8 x 42, 30.5 x 32)	220	300
Tie Rod Jam Nut (20.8 x 42, 30.5 x 32)	150	200
Axle Mounting Bolts	775	1050
Jam Nut	370	500
Triple Wheel		
Inner Wheel	325	440
Tie Rod Nut (20.8 x 42)	220	300
Tie Rod Jam Nut (20.8 x 42)	150	200

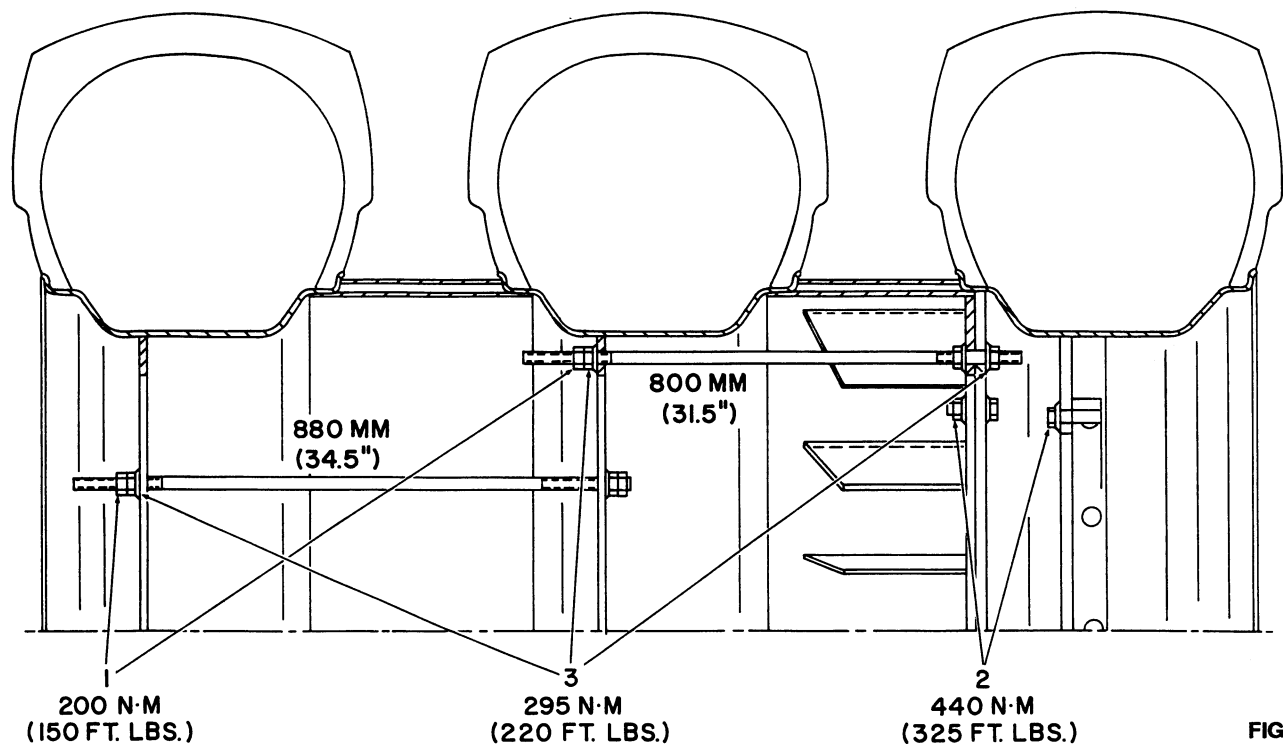


FIGURE 8

20.8 x 42 Triples

Figure 8

1. Check the inner wheel bolts. Proper torque should be 325 ft. lbs. (440 N·m).
2. Remove the tie rods from the shipping crate. Place the short rods 31.5" (800 mm) in one pile. Inspect and lubricate all threads. These rods will be used to mount the second wheel assembly.
3. Place the long tie rods, 34.5" (880 mm), in another pile. Inspect and lubricate all threads. These rods will be used to mount the triple wheel assembly.

CAUTION: MAKE SURE THE PARK BRAKE IS SET AND THE TRACTOR IS ON LEVEL GROUND.

4. Set the park brake. Carefully jack up one side of the tractor.

WARNING: ENGAGE THE ARTICULATION LOCK BEFORE LIFTING THE TRACTOR.

5. Locate the spacer with reinforcement welded on it.

Assemble the mounting plate to the inner rim by using eight cap screws. Skip every other hole. Torque the flange nut to 325 ft. lbs. (440 N·m).

6. Thread a flange nut on two shorter tie rods about 3" (75 mm). Place two rods through the existing holes in the flange area 180 degrees apart. Place a second nut on the rod. Do not tighten the nut.
7. Locate the tire and rim assembly. Make sure the tire tread is facing the correct direction. Align the antirotation clips and rods. Place the outer flange nut on the rods to hold the assembly in place. Install the remaining rods and nuts. Torque the inner flange nut first; then torque the other nut. Torque the nuts to 220 ft. lbs. (295 N·m).

NOTE: Use a cross torque method.

8. Place two tie rods in the inner flange of the dual wheel 180 degrees apart.
9. Place a flange nut on the tie rods. Thread the nut on the rod 2" (50 mm).

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