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MANUAL PREVIEW

Caterpillar Operator's Manual

Twenty, Twenty-Five,
& Twenty-Eight

S/N L1, PL1, 3C1, 4F1 & Up

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Operator's Manual

Operators' Instruction Book

for

CATERPILLAR

Reg. U. S. Pat. Off.

TRACTORS

TWENTY

LI & UP

PLI & UP

TWENTY-FIVE

3CI & UP

TWENTY-EIGHT

4FI & UP

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PEORIA, ILLINOIS, U. S. A.

Track-Type Tractors Road Machinery

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Maintenance Instructions

The foregoing paragraphs have been devoted to instructions which are necessary for day to day operation of the tractor. The following topics give detailed instructions regarding the care and adjustment of the various assemblies.

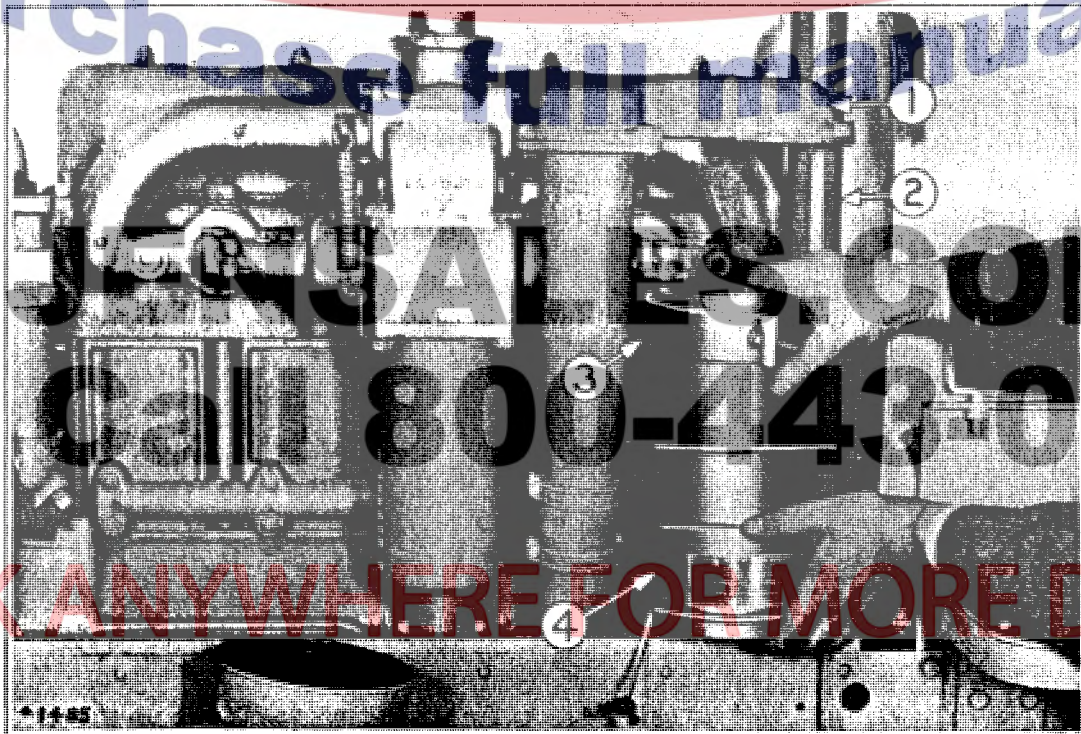
CARE OF THE AIR CLEANER

The air cleaner does its work efficiently as long as the oil in the cup is thin enough to spray into the filter section and wash back the dirt collecting there. For this reason, the air cleaner should be inspected frequently and serviced as often as necessary.

The interval between oil changes and cleaning will vary with the weather and working conditions. During the hot dusty months, and on jobs where dust conditions are severe, it may be necessary to service the air cleaner every 5 hours. In cold, damp weather, and on jobs where there is little or no dust, this operation may be necessary only every 60 hours.

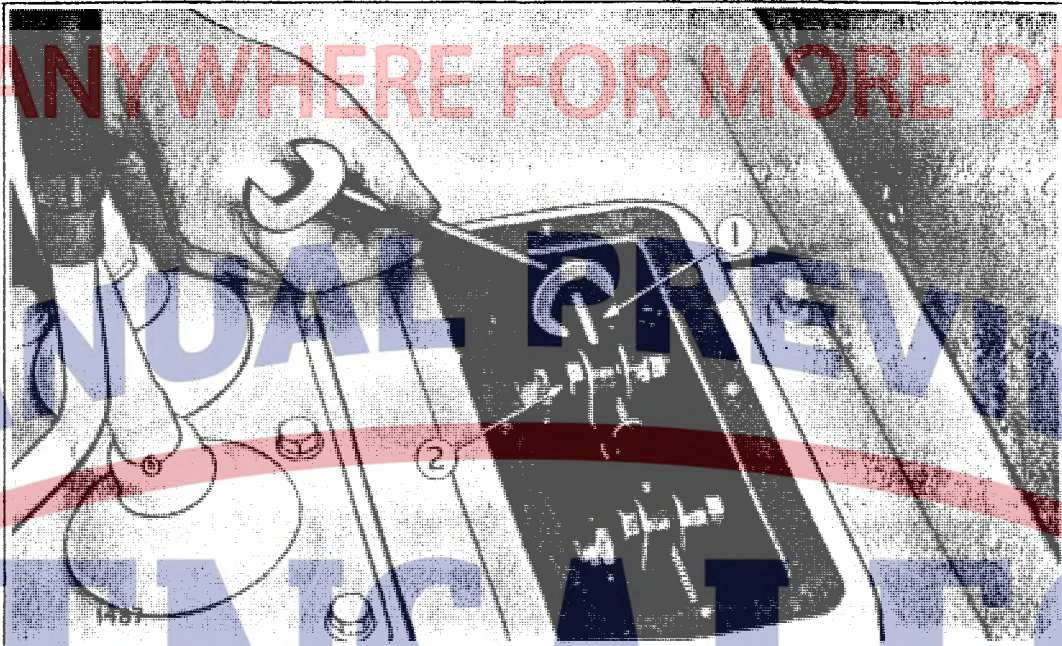
To Wash Air Cleaner: Remove the hood, and the oil cup. Take out the cap screws that hold the air cleaner outlet elbow to the top of the air cleaner. Remove the small set screw that holds the lower end of the air inlet pipe to the elbow of the air cleaner body and pull the inlet pipe out of the elbow. Remove the cap screw that holds the air cleaner clamp band to the bracket. Lower the body of the cleaner until it is clear of the clamp band and remove it.

Shake the filter section in gasoline or kerosene. After washing, pour about $\frac{1}{2}$ pint (0.24 liters) of oil through the filter. Wash the cup, refill to the circular oil level mark, and replace before the engine is started. Keep all connections between the air cleaner and carburetor air tight. Whenever the air cleaner is washed, clean all pipes through which the air flows.



REMOVING AIR CLEANER

1—Air cleaner outlet pipe. 2—Air inlet pipe. 3—Clamp band. 4—Air cleaner body.

**STEERING CLUTCH CONTROL ADJUSTMENT**

1—Adjusting screw. 2—Clamp bolt.

STEERING CLUTCH BRAKE ADJUSTMENT

Keep the brakes adjusted just tight enough so that the tractor will turn correctly when the steering clutch is released and the brake pedal is depressed about three-fourths of the way to the floor. The band should be entirely free from the drum when the pedal is in the released position.

To adjust, turn the adjusting nut in a clockwise direction to tighten the brakes. Turn the nut sufficiently to allow the notches on the nut to seat firmly on the brake lever pin. A compression spring mounted on

**STEERING CLUTCH BRAKE ADJUSTMENT**

1—Adjusting nuts.

STOPPING THE ENGINE

When stopping the engine, move the throttle control lever to the idling position and turn the fuel control valve to the OFF position. Allow the engine to burn all the fuel in the carburetor. Then turn the ignition switch "OFF". This will make it unnecessary to drain the carburetor of "tractor fuel" when starting on gasoline.

OPERATING IN COLD WEATHER

The special attachments for burning tractor fuels include a curtain that is adjustable to several different vertical positions. To adjust the curtain, loosen the wing nut on the lower right hand corner of the radiator (as viewed from the front) and turn the left wing nut enough to permit the curtain rod to be hooked into the desired slots. Tighten the right wing nut to maintain the tension on the curtain.

Use the radiator curtain to maintain an efficient operating temperature of approximately 190° to 200°F. (87.8° to 93.3°C.) In extremely cold weather, if it is difficult to maintain this temperature, it will be advisable to install hood side doors and perhaps cover the louvers in the doors with cardboard or some similar material. Side doors are available through your "Caterpillar" dealer as special attachments.

When the temperature is below 20°F. (−7°C.) sufficient anti-freeze solution should be used in the cooling system to prevent freezing. Commercial solutions are available for this purpose or glycerine may be used. Alcohol cannot be used successfully in tractors operating on "tractor fuels" since it evaporates rapidly at the normal operating temperature of the engine.

CARBURETOR ADJUSTMENT



CARBURETOR ADJUSTMENT

- 1—High speed or load adjustment. 2—Idling adjustment.
3—Idling speed control.