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Maintenance after 250 hours of operation

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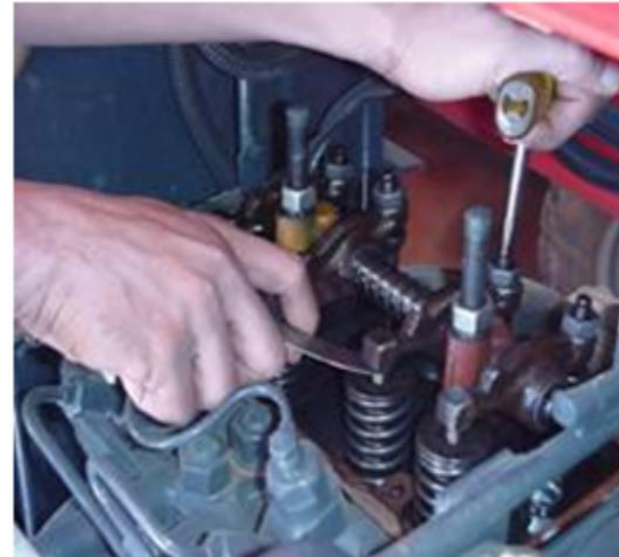


The maintenance after 250 hours of operation service includes the jobs which are necessary for tractor to tune-up, which are as below:

1. Repeating the activities carried out in 125hours maintenance schedule
2. Valve clearance adjustment:

Proper valve clearance is very important because:

- a) Valves give longer life
- b) Increases fuel efficiency
- c) Starting becomes easy
- d) Maximum power generation



View of valve system in tractors

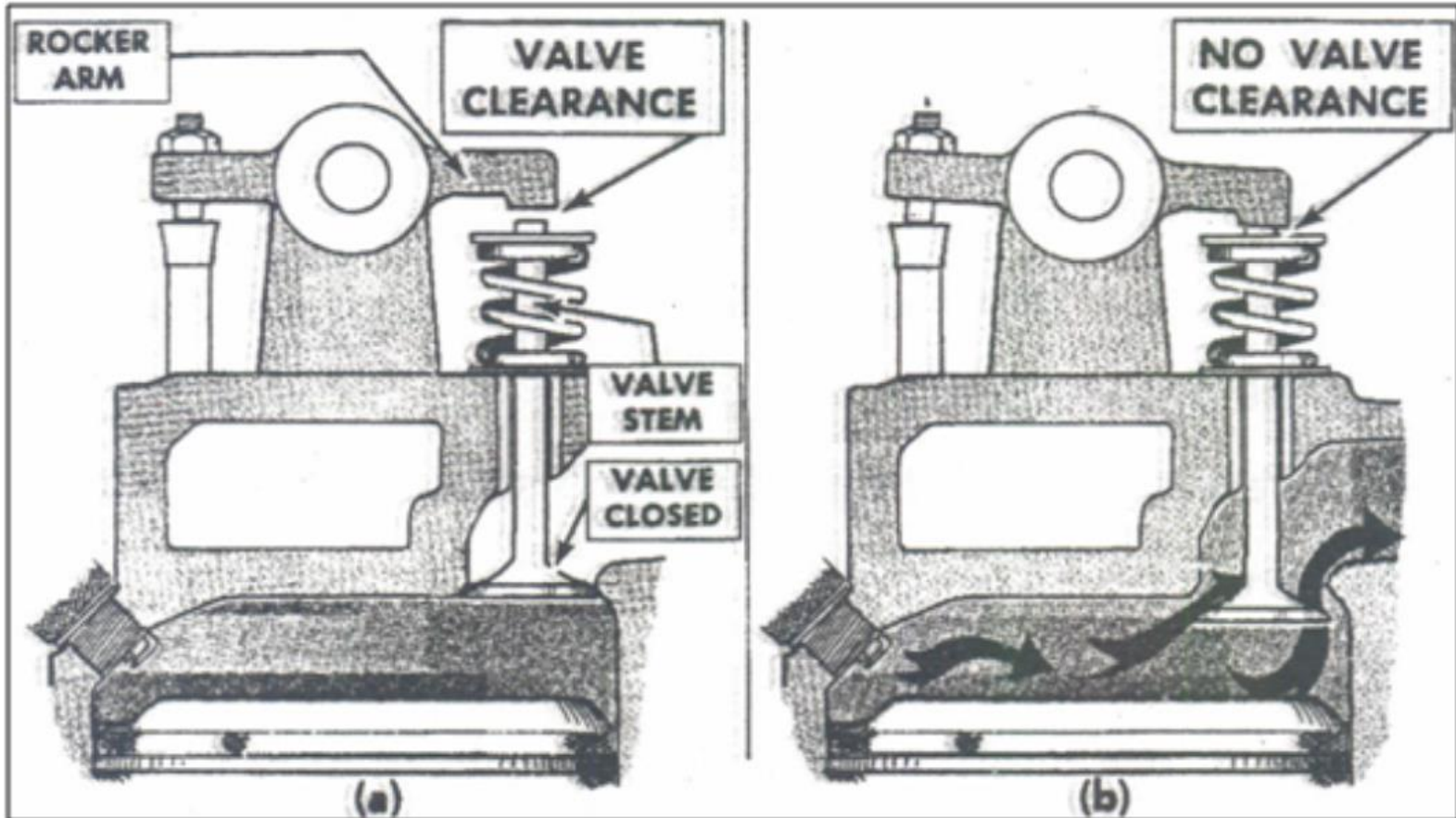


Recommended valve clearances for tractor engine are given in table below:

Type of valve	Recommended valve clearance
Inlet valve	0.008"
Exhaust valve	0.010 to 0.016" 0.004" (1 thou) = 0.1 mm

Following steps may be followed to valve clearance adjustments: Steps for valve clearance adjustment:

- a) Check cylinder head bolts for tightness
- b) Slowly turn crankshaft until piston number 1, in the cylinder is at top dead centre (TDC) of compression stroke.
- c) Check clearance with filler gauge between valve stem and rocker arm of both the valves.
- d) If the clearance is not proper, loosen the adjusting screw nut and turn adjusting screw and check with filler gauge.



View head for tightness. of proper and improper valve clearance



3. Checking the battery:

- a) Disconnect cable and ground strap from the battery terminals.
- b) Clean cable clamps.
- c) Remove dust and corrosion particles from battery terminals.
- d) Brush soda and water mixture on top of the battery.
- e) Apply coating of petroleum jelly.
- f) Reconnect power cable and tighten properly.



View of Battery used in tractor



4. Cleaning the sediment bowl and fuel filters:

- a) Remove the sediment bowl after closing the fuel supply. (Fig: 5.)
- b) Remove gasket, if any.
- c) Remove the filter or strainer and wash it with diesel. Pass the compressed air through it, so that dust and dirt can be removed more effectively.
- d) Clean sediment bowl also. Open fuel valve and check whether fuel is coming from tank is free from dirt or not, if not make a free flow:



Fig: 5. View of sediment bowl (Courtesy: Escort Ltd.)

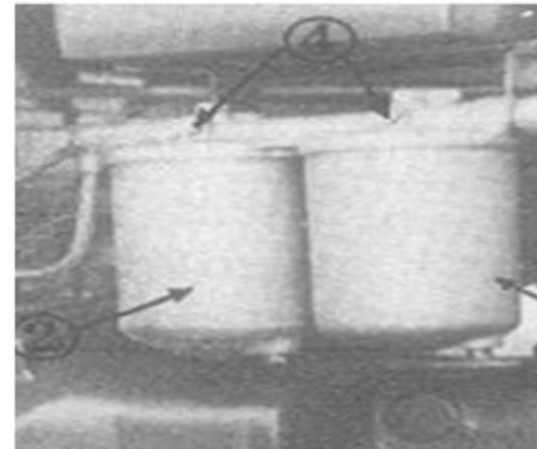


Fig: 6. View of Fuel filters in tractor (Courtesy: Escort Ltd.)

- e) Assemble the sediment bowl and reinstall it over to the tractor.
- f) Change fuel filter elements as per recommendation of the manufacturer.



5. Adjust engine clutch: Adjustment of foot operated clutches: To adjust the foot operated clutch proceed as follows:

- Determine from your operator's manual how much free travel in clutch pedal is needed. Recommendations vary from 15mm to more than 60mm.
- Check clutch pedal for free travel.



Fig: 8. View of Clutch

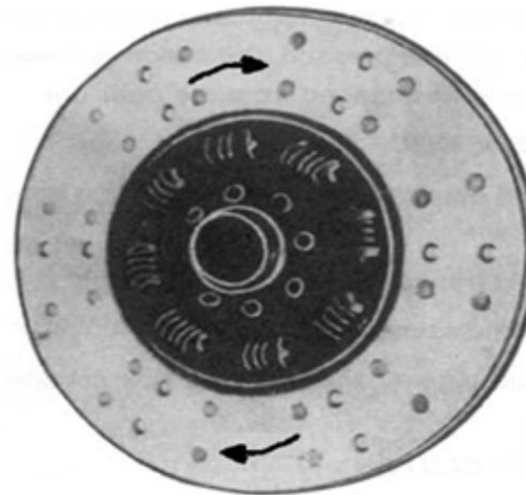


Fig: 9. View of disc type clutch

(Courtesy: Escort Ltd. Faridabad)

- Locate means provided for clutch adjustments.
- Adjust linkage until clutch pedal has sufficient free travel.
- Tighten lock nut so that it holds adjustment securely.



Adjustment of hand-operated clutches: To adjust the hand-operated clutch proceeds as follows:

- a) Check clutch lever adjustment to determine whether adjustment is needed.
- b) Disengage the clutch.
- c) Place gear shift lever in neutral.
- d) Remove hand-hole cover on clutch housing
- e) Turn clutch by handle until locking mechanism is on side next to hand-hole.
- f) Do the adjustment
- g) Reassemble it.