The sub groups and items numbers for special tools in this description are in reference to the special Cummins tools outlined in sub group 2.1.11.

1. Remove cylinder head

Drain coolant, remove vent lines at the crankcase ventilation.

Remove turbo charger lube oil line. Loosen turbo charger from the exhaust pipe, intake manifold, intake pipe and remove exhaust manifold.

Remove the plug for the cold start at the intake pipe and remove intake pipe.

Remove fuel manifold with O-rings.

Knock the coolant connecting tubes with special tool 8 - See page 2.1.11.02 in the direction of the fan drive - see fig. 1. Remove cylinder head covers.

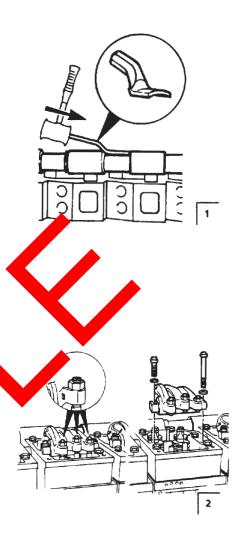
Loosen rocker arm adjustment screws and recover assemblies. Pull push rods for values and injectors from the engine block store appropriately, see fig. 2.

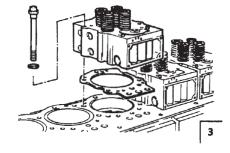
Remove the screws for the rocker as a hely how a fin the reverse order of installation, see purely on 2, 16 on the reverse page. Remove and story howing an gasket. Remove the screws for cylinder hear in the reverse order of installation as a graph 2, figure on the reverse side.

Carefully remove a store the linder head with gasket.

Important: Careful, ect protruces.

Remove and store cylinear head gasket and seals for oil - cor ant drilling roush ds, and cylinder head screws with wash







Benennung Description Dènomination

Replace Cylinder Head Gasket Cummins Engine Typ/ab Type/from Type/a partir de

PR 751

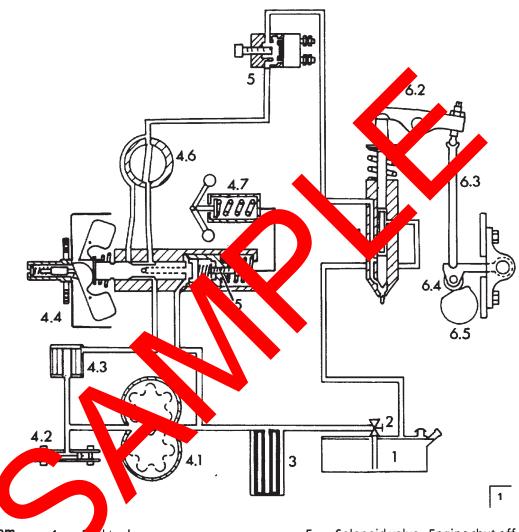
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4.2.05.01

The sub groups and item numbers for special tools mentioned in this description are in reference to the special Cummins tools outlined in sub group 2.1.11.

1. Description

The Cummins PT fuel system (PT = pressure / time) includes two main components, the fuel pump and the 6 injectors with mechanical actuation. The fuel pump supplies Diesel fuel to the injectors at a relative low pressure. The actual injection pressure is produced by the injectors due to mechanical actuation. Excess fuel returns from the injectors to the tank.



Fuel System Components:

- el tank
- ruel shut off valve
 - 3 Fuel filter (2 x)
 - 4 Fuel pump
 - 4.1 Gear pump
 - Vibration damper 4.2
 - 4.3 Filter screen
 - Flyball type governor 4.4
 - 4.5 High idle adjustment screw
 - Restrictor shaft 4.6
 - **VS-Throttle control** 4.7

- Solenoid valve Engine shut off
- 6 Injector group
- Injector 6.1
- 6.2 Rocker lever
- Push rod 6.3
- 6.4 Cam followers
- Cam shaft 6.5

LIEBHERR

Benennung Description Denomination

Fuel System Cummins Engine Typ/ab Type/from Type/a partir de

PR 751

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4.2.06.01

Datum Edition Date

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The travel hydraulic on LIEBHERR dozers and loaders includes a fully hydrostatic drive with closed loop circuit.

Each side (track) has its own independent close loop circuit, whose main components consist of a variable displacement axial piston pump in swash plate design and a variable flow axial piston motor.

All travel movements of the machine are hydraulically controlled with the single lever of a servo control unit. The movements go from normal forward or reverse to counter-rotation. This type of hydraulic system assures infinitely variable travel speed in all directions, and maximum utilization of the available power at all times (speed x force = power = constant).

main components: Diesel engine - distributor gear- distributor gear

Two variable displacement pumps in swap plate design

two replenishing gear pumps and filt

Two variable axial piston motors side

One gear type servo pump (mounted trave pump)

One gear type cooling pump (mounter on e travel

pump)

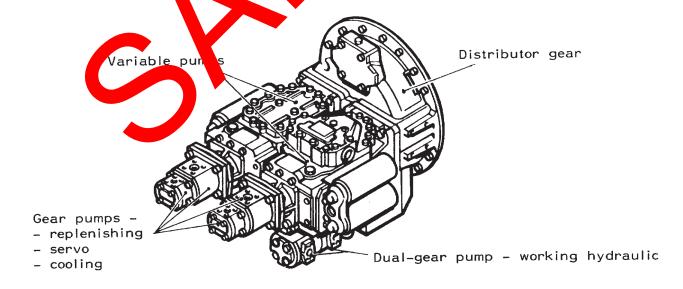
Load limit valve

Servo control unit

Hydraulic tank wireturn il filt

The multi-pump unit is driven a contain via a distributor gear and centaflex coupling by a basel evine.

Mounted on the distribute gear are to travel pumps. Mounted on each travel pump is a gear too repletishing pump as well as a gear type pump on the right travel pump for the servo system and a gear type pump on the left travel pump to drive the oil cooler motor. Mounted below the travel pumps and dual grap pump for the working hydraulic.





Benennung Description Dénomination

escription
Travelling hydraulic

Datum Edition Date Description

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Typ/ab Type/from Type/a partir de

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