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MANUAL PREVIEW

White

Service Manual

2-30 & 2-35

Field Boss

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Service Manual

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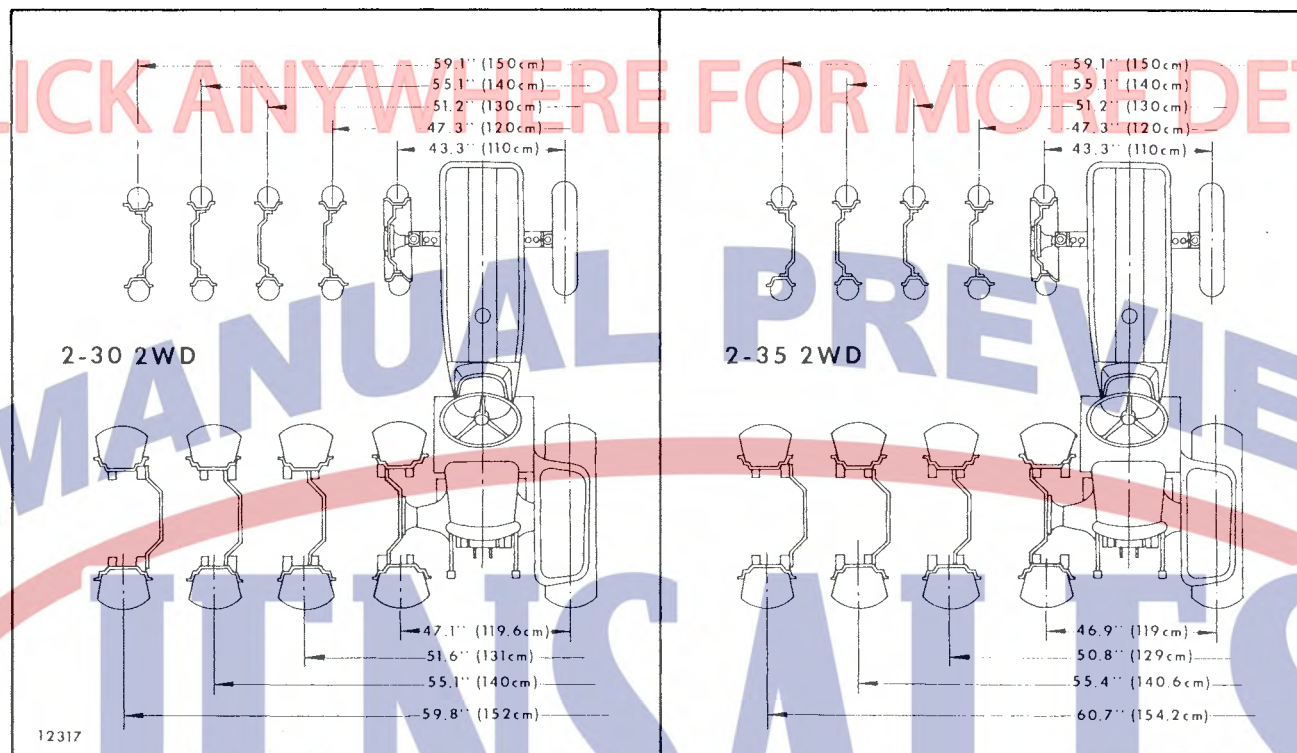


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WH-S-2-30



TRAVEL SPEEDS — MPH (KM/HR)

	2-30	2-35
Gear		
1	0.8 (1.3)	0.7 (1.2)
2	1.1 (1.8)	1.0 (1.6)
3	1.7 (2.7)	1.6 (2.5)
4	2.4 (3.9)	2.2 (3.6)
5	4.0 (6.5)	3.9 (6.2)
6	5.6 (9.0)	5.3 (8.5)
7	8.6 (13.9)	8.2 (13.2)
8	12.2 (19.7)	11.6 (18.7)
R1	1.1 (1.8)	1.0 (1.6)
R2	5.6 (9.0)	5.3 (8.5)

UNIT CAPACITIES

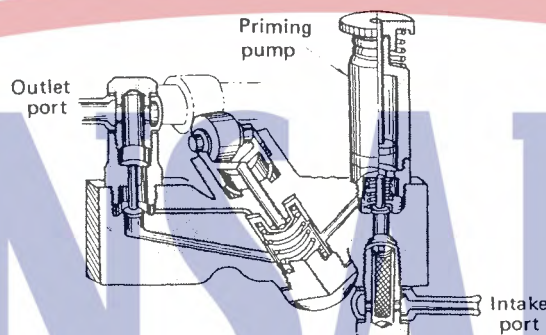
	U.S. Measure	Metric Measure	Imperial Measure
Cooling System	8.4 Quarts	7.9 Liters	1.7 Gallons
Fuel Tank	8 Gallons	30 Liters	6.6 Gallons
Engine Crankcase	6.5 Quarts	6.2 Liters	1.4 Gallons
Transmission and Rear Differential	16.9 Quarts	16 Liters	3.5 Gallons
4WD Components			
Front Axle	8.5 Quarts	8 Liters	1.75 Gallons
Transfer Case	0.8 Quarts	0.8 Liters	0.2 Gallons
Hydraulic System	8.5 Quarts	8 Liters	1.8 Gallons
Injection Pump	0.12 Quarts	0.11 Liters	0.11 Quarts
Governor	0.16 Quarts	0.16 Liters	0.15 Quarts

OPERATION (Refer to Fuel Flow Schematic)

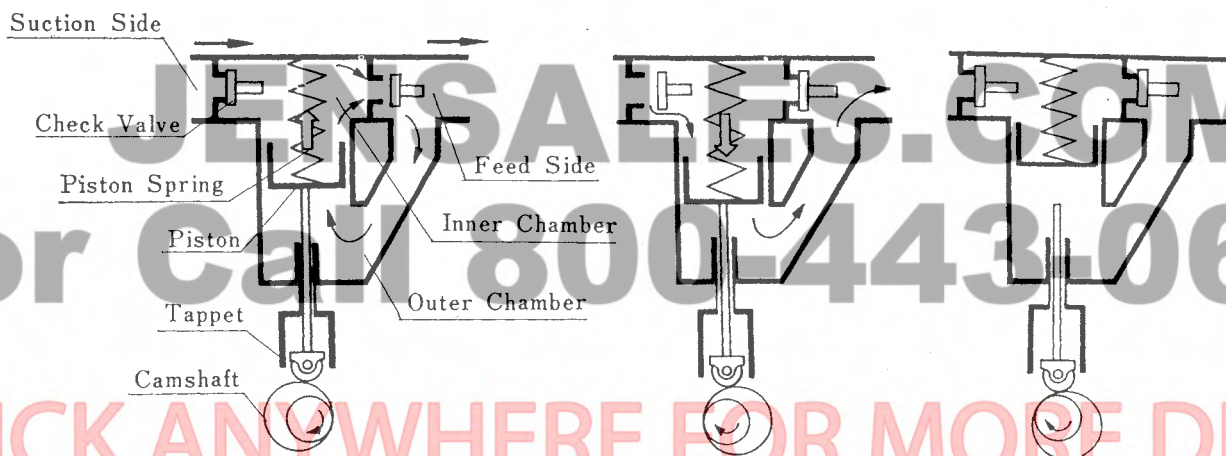
Fuel is drawn from fuel supply tank through fuel strainer by feed pump (transfer pump). Pressurized fuel is directed through fuel filter with excessive fuel from filter being returned to fuel supply tank. Clean fuel from filter enters injection pump chamber, is pressurized and directed to nozzle where fuel is atomized in combustion chamber. Excess fuel at nozzle is returned to fuel filter and returned to fuel supply tank.

FEED PUMP

Feed pump is driven by eccentric on injection pump camshaft and delivers fuel to filter and on to injection pump. Single acting pump provides one suction stroke and one pressure stroke per revolution of injection pump camshaft.



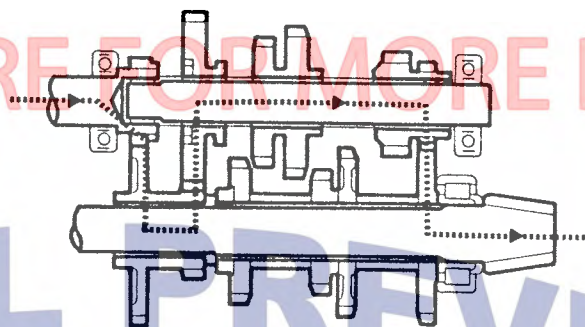
Feed pump consists of: piston, piston spring, push rod, tappet, check valves, and pump housing. Camshaft of injection pump pushes piston on pressure stroke, check valve on suction side closes, and fuel in inner chamber passes outlet check valve to outer chamber. Down stroke of piston (moved by piston return spring) displaces fuel in outer chamber to injection pump while fuel is drawn past inlet check valve to inner chamber.



GEAR SELECTION

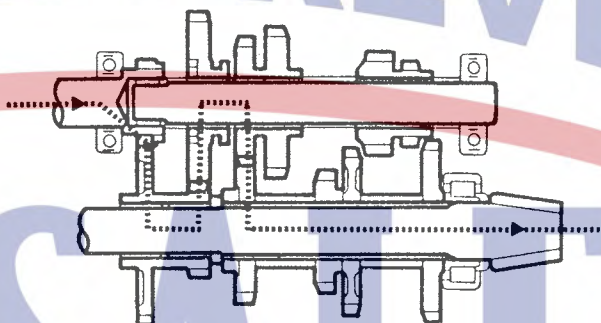
Main speed : 1st

Auxiliary speed : LOW



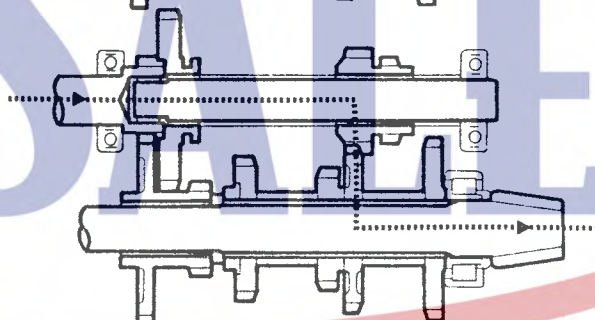
Main speed : 2nd

Auxiliary speed : LOW



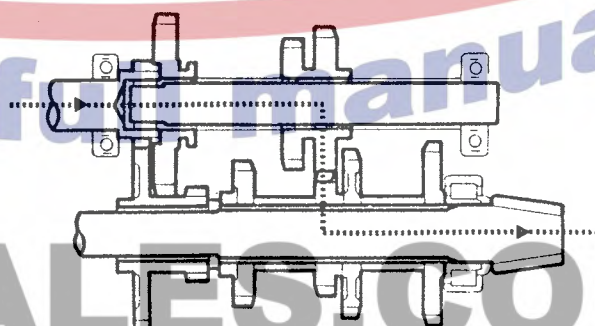
Main speed : 3rd

Auxiliary speed : HIGH



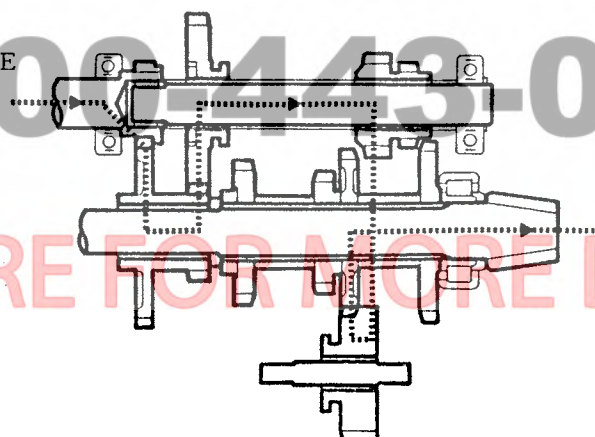
Main speed : 4th

Auxiliary speed : HIGH



Main speed : REVERSE

Auxiliary speed : LOW



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