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Minneapolis Moline

Service Manual

G-955

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MM-S-G955

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1870

**SAME AS MINNEAPOLIS
MOLINE G955**

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G955 – 1870 TRACTOR

GENERAL INFORMATION

1. SPECIFICATIONS:

See Service Letter 100-317-05

2. G955–1870 TRACTOR CHARACTERISTICS

A. Engine Clutch

Same as used in G1355, 2255, 2270 and 4-150; 6 button, 14-inch.

B. Transmission

Input Shaft has new high and low range gear.

High Range:	36 tooth
Low Range:	22 tooth

To mesh with new gears on input shaft mating gears on counter shaft have following tooth count:

High Range:	28 tooth
Low Range:	42 tooth

C. PTO

Proper PTO speeds at engine speed of 1800 rpm use following tooth count:

Driven Gear	
1000 RPM PTO	44 tooth
540 RPM PTO	53 tooth

Drive Gear	
20 and 31 tooth	

D. Hydraulic Pump Drive

To maintain 2400 hydraulic pump rpm at engine speed of 1800 rpm*following pump drive gears are installed in tractor. 21 tooth driven and 28 tooth drive gear. If low pump output (gpm) is noted, remove pump drive support and observe tooth count on driven gear.

3. GENERAL SERVICE INFORMATION

A. Camshaft

See Service Letter 100-055-03

Camshaft lobe lift is lift measured on pushrod side of rocker arm when all clearance is removed from valve train.

Valve Lift is distance valve moves in cylinder head.

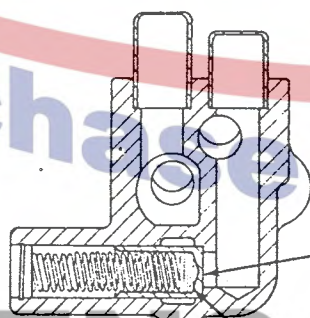
Lack of oil drain hole in rear camshaft bore on D585 engines permits excessive oil pressure build up resulting in expansion plug becoming dislodged from bore. Use cap screw in seal retainer as reference point for drilling drain hole. See illustration. Remove oil filter cannister to clean metal chips from crankcase after drilling.

FUEL INJECTION EQUIPMENT (Continued)

	LP GAS	DIESEL
Fuel Rate @ 1800 RPM		44-46 lbs/hr.
Pump Operating Speed		1/2 Engine Speed
Roller to Roller Dimension		1.967 ± 0.0005
Governor Linkage Gap		0.125-0.165
Minimum Delivery @ $\frac{140}{160}$ RPM Cranking Speed		40 mm 3/stroke

OIL PUMP

Type	Gear	Gear
Clearance between Housing and Drive Gear	0.010-0.030	0.010-0.030
Clearance between Gear Face and Cover	0.004-0.006	0.004-0.006
Pressure Regulator Spring		
ID	0.367	0.367
OD	0.493	0.493
Free Length	1.6250	1.6250
Load Rating		
Length @ 3 lb. Load	1.50	1.50
Length @ 16 lb. Load	1.00	1.00
Filter Bypass Spring		
ID	0.331	0.331
OD	0.409	0.409
Free Length	2.4375	2.4375
Load Rating		
Length @ 2, 15 lb. Load	1.65	1.65
Length @ 3, 75 lb. Load	1.065	1.065

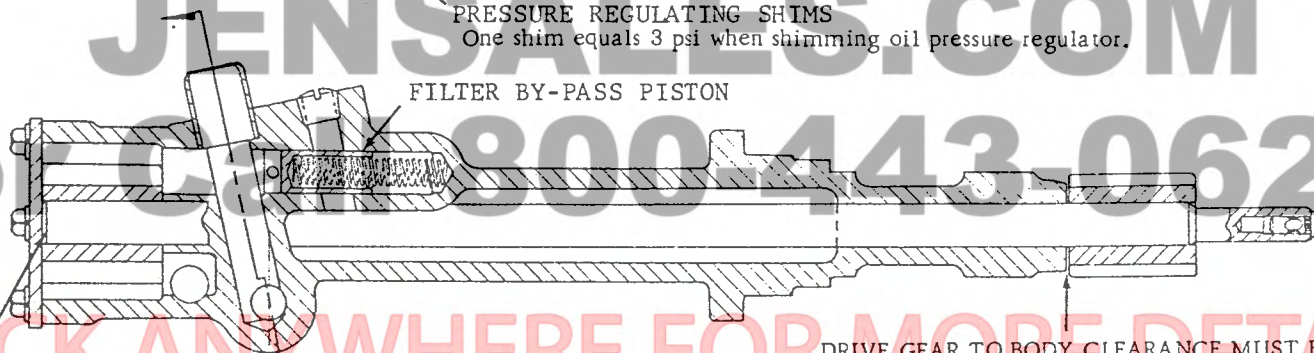


OIL PRESSURE REGULATOR PISTON

PRESSURE REGULATING SHIMS

One shim equals 3 psi when shimming oil pressure regulator.

FILTER BY-PASS PISTON



SHAFT TO BE FLUSH TO
.010 BELOW GEAR FACE.

DRIVE GEAR TO BODY CLEARANCE MUST BE
.010-.030 WITH GEAR IN PUMP BOTTOMED
IN BORE.

Service Letter

Location

Subject

Diesel Fuel Injection —
G950 & 1865 Tractors

Number

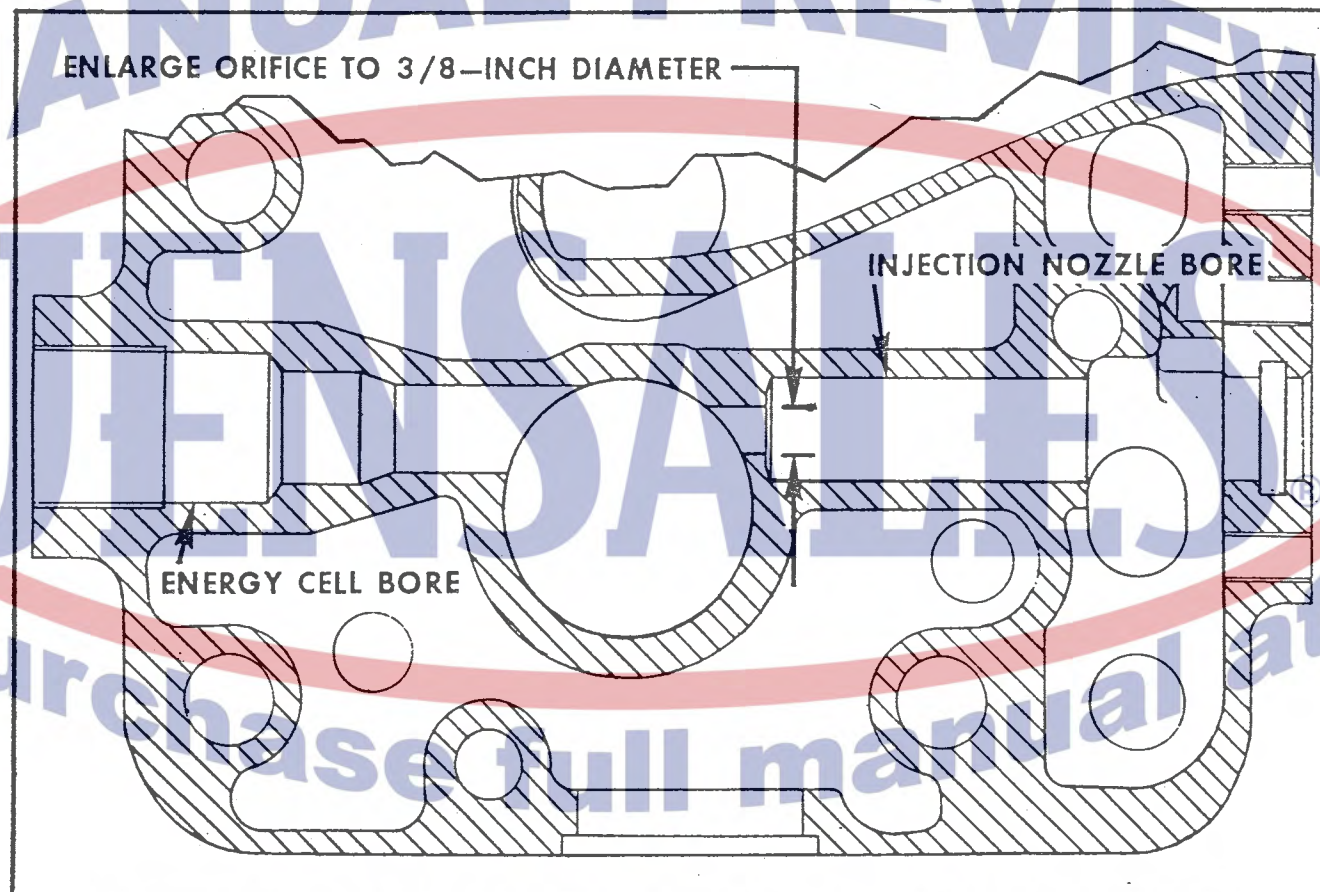
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Date

File

100-200-12

1 of 2



PROBLEM

Power loss and excessive exhaust smoke on some G950 and 1865 diesel tractors with 10A31139 Cylinder Heads.

OBSERVATION

Carbon buildup in cylinder head fuel orifice restricts fuel supply to combustion chamber.

CORRECTION

FACTORY

Fuel orifice between nozzle and combustion chambers has been enlarged from 5/16-inch to 3/8-inch diameter to permit fuel spray from injection nozzle to pass cleanly through orifice.

PARTS REPLACEMENT OR REPAIR AT COMPANY EXPENSE IS NOT AUTHORIZED UNLESS SUCH POLICY IS STATED.