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MANUAL PREVIEW

Wabco
Service Manual
330 & 330H
Motor Grader

Service Manual

JENSALES.COM
or Call 800-443-0625



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WAB-S-330+

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MAINTENANCE

MANUAL

for

LW Motor Graders

Model 330

Model 330 H

AND

Model 440

WABCO



LeTOURNEAU-WESTINGHOUSE COMPANY
A Subsidiary of Westinghouse Air Brake Co.

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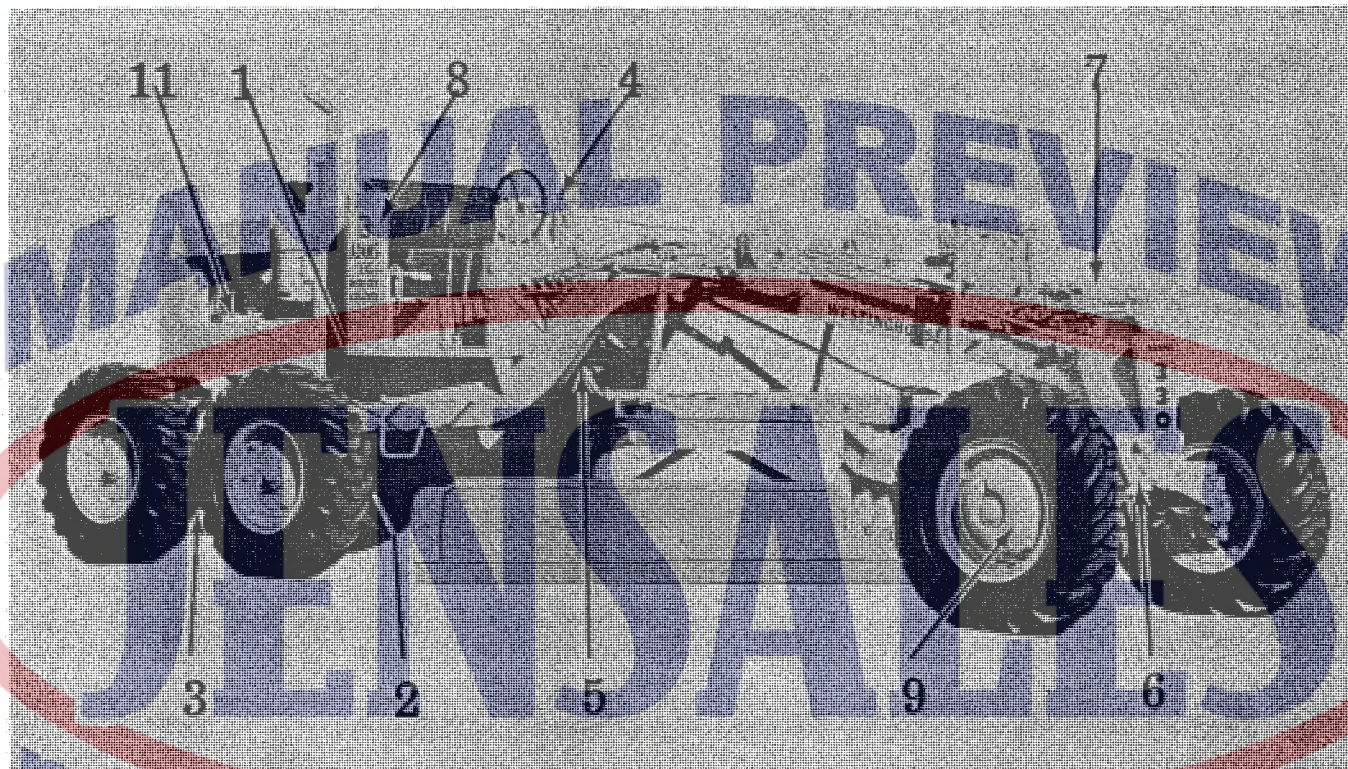
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SECTION NO.

ASSEMBLY DESCRIPTION

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CLUTCH

ENGINE REMOVAL

When major repairs to the engine are necessary, the engine must be removed from the frame. Since removal of Cummins and General Motors engines are similar, the following instructions and illustrations will aid in the removal of either engine.



Illust. 1

Remove air cleaner cap or air pre-cleaner, muffler, hood, lower hood sides and air cleaner hose with elbow (Illust. 1).

Drain hydraulic reservoir by installing a suitable length of hose onto drain cock. Open drain cock and allow oil to drain in a container. When reservoir is empty, close drain cock and remove hose. Next, shut fuel off at fuel shut-off valve. Disconnect fuel outlet and return lines from tank. Disconnect vent pipe from top of tank (Illust. 2).

Remove reducer from top of fuel tank and install a lift eye (Illust. 3).

Disconnect battery cables from engine. Remove wiring from voltage regulator and clamps from fire wall.



Illust. 2

Remove fuel tank support anchor cap screws, nuts and lock washers. Lift fuel tank from frame, using a chain hoist (Illust. 3).

Disconnect wiring from cranking motor and generator. Remove all wiring harness clamps from engine (Illust. 4).

Disconnect engine solenoid switch cable on Cummins engine and engine shut-down cable on General Motors engine.



Illust. 3

Diameter of Clutch	Back Plate Material	No. of Springs	Spring Free Length	Test Springs at	
				Length	Lbs. Pressure
Model 330 14"	Steel	15	2-9/16"	1-13/16"	170 - 180
Model 440 15"	Steel	18	3-5/32"	2-1/8"	170 - 180

It is recommended that the lever assembly working parts and drive contacts between back plate and pressure plate be lubricated with "Lubriplate No. 220", manufactured by Lubriplate Division of Fiske Bros. Refining Company, Toledo, Ohio.

The clutch assembly procedure for Models 330 and 440 Motor Graders is identical except for adjustments.

Illust. 2 is an exploded view of lever assembly.

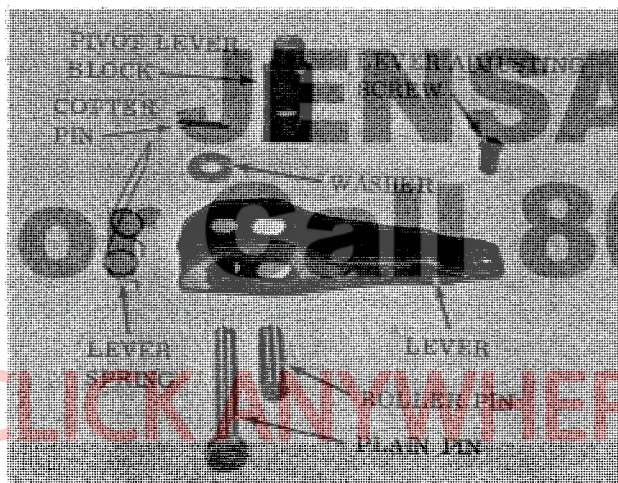
Tighten lever adjusting screw into lever until one (1) thread extends from underneath side of lever (Illust. 3).

Insert pivot lever block into lever. Align

pin hole in block with slotted hole (nearest adjusting lever screw) in lever and insert rolled pin (Illust. 4). Pin to be flush with sides of lever.



Illust. 3



Illust. 2



Illust. 4



Illust. 5

Insert lever between back plate brackets. Next, insert lever spring into lever with short ends of spring fitting into opening in lever (Illust. 5).

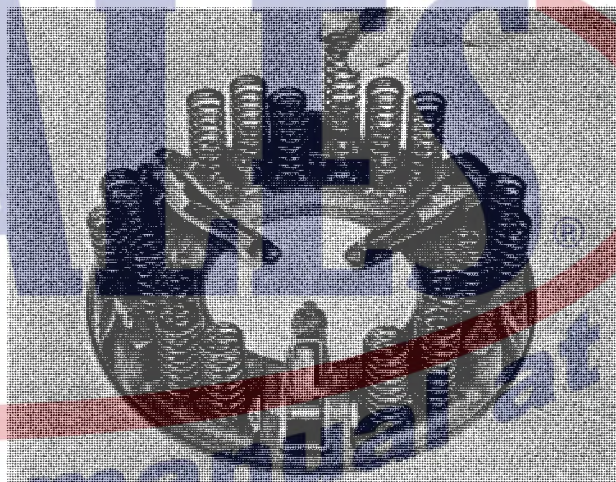
Align pin holes in lever, spring and back plate brackets, then insert plain pin (Illust. 6). NOTE: Head of pin to be against thrust of back plate.

Install washer and cotter pin on plain pin. Spread cotter pin (Illust. 7).

Install springs to back plate (Illust. 8).
NOTE: 330 Motor Grader clutch contains



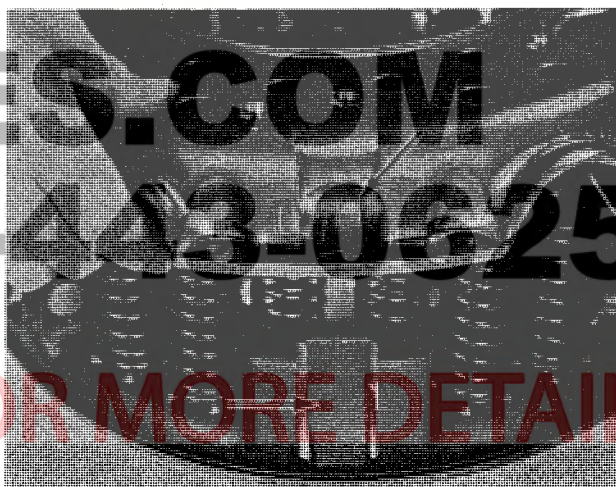
Illust. 6



Illust. 8



Illust. 7



Illust. 9