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MANUAL PREVIEW

International Harvester

Service Manual

Hydraulic Pumps,
control Valves & Lift
Cylinders For

Crawlers & Loaders

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Check Your Stock of ISS-1511
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REVISION NO. 2 OF ISS-1511

Attached are revised and additional pages which should be filed in your "International Crawler Tractor and Loader Hydraulic Equipment" Service Manual, form number ISS-1511.

Replace pages in your manual dated (10-65) and (Rev. No. 1 2-67) with the following new or additional pages dated (4-69).

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TECHNICAL PUBLICATIONS SECTION
CONSTRUCTION EQUIPMENT DIVISION
INTERNATIONAL HARVESTER COMPANY
Melrose Park, Illinois



INTERNATIONAL CRAWLER TRACTOR AND LOADER HYDRAULIC EQUIPMENT

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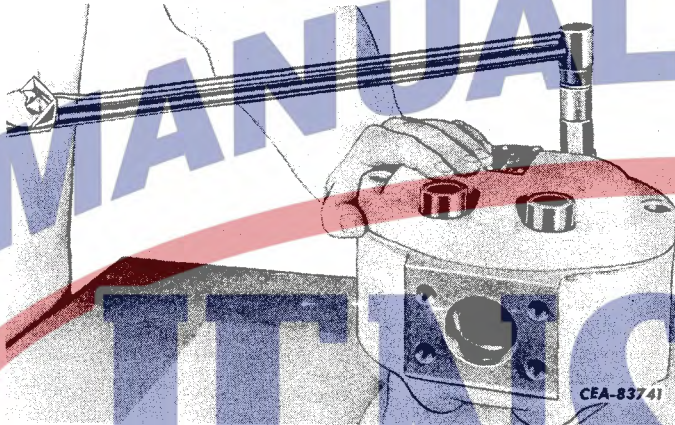
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HYDRAULIC PUMP
(HYDRECO MODELS 3015A8F6AL, 3020A8F6AL
AND 3035A8F6AL)

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14. Install the four large cap screws and torque to 190 foot pounds with torque wrench, hex adapter tool No. J-1313, and tool No. J8664 (Illust. 31). Be sure cap screws and spot faces are free of nicks and burrs.



Illust. 31
Torquing Cover Bolts.

15. Install small cap screws (21, Illust. 1) with lock nuts and torque to 60 foot pounds. Be certain to replace lock nuts with the same type.

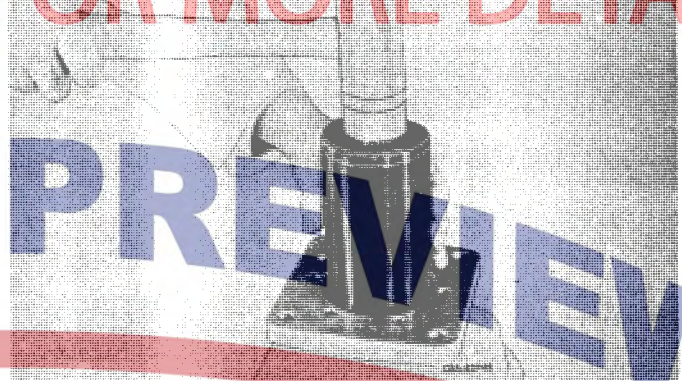
16. Check for proper running clearance. If the shaft can be rotated with a wrench 8 inches long with only a slight drag the running clearance is proper. If too much effort is required loosen the capscrews and then retighten them evenly while rotating the shaft. If the rotation is still too tight additional shimming is required, but first be sure all internal parts are clean and free of nicks and burrs. Do not exceed a total running clearance of .006 inch.

17. Install the bearing (13) over the shaft (14). Be sure the side marked "THRUST HERE" is facing up.

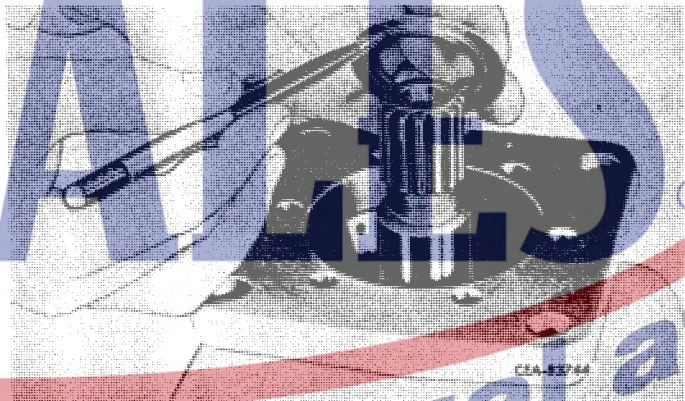
18. Place the roller bearing remover (body), tool No. J-8656-2 on the outer race of the bearing and tap down lightly until the bearing is bottomed in the adapter housing (16) (Illust. 32).

19. Install the seal assembly (5) as follows:

- a. Install the washer (11) so the shoulder of the washer is against the bearing (13) (Illust. 33).



Illust. 32
Installing Drive Shaft Bearing.



Illust. 33
Installing Washer.

b. Install the key (8) so the square head of the key will align with the slot in the seal (7) (Illust. 34).

c. Coat the "O" ring (9) with a light grease or oil and install the "O" ring into the groove of the seal (7). Install the spring (10) onto the seal.

d. Apply a few drops of light oil to the lapped face of the seal (7). Note that the square slot in the seal (Illust. 35) is to be aligned with the square head of the key (8) which was previously installed in the shaft (14).

NOTE: The key (8) can easily be deformed or sheared off if not in alignment with the slot in the seal (7).

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HYDRAULIC LIFT CYLINDER
(FOR TD-14A (141 SERIES) AND TD-18A (181 SERIES)
CRAWLER TRACTORS)

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(TD-14 (142 SERIES), TD-15 (150 AND 151 SERIES),
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DIRECT LIFT HYDRAULIC SYSTEM

(TD-9 SERIES B, TD-15 SERIES B AND TD-20
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AND 250 DROTT LOADERS AND MODEL 175
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TRACK FRAME MOUNTED HYDRAULIC SYSTEM

1. GENERAL

Before attempting the following checks, be sure:

- The entire system is filled with the proper type and viscosity oil recommended.
- The oil strainer is free from obstruction.
- The oil is at normal operating temperatures or above 120°F.
- When disconnecting hydraulic lines for any reason, they should be properly capped with the correct size plastic cap. If these caps are not available, tape or clean rubber stoppers may be used. Hydraulic openings must never be plugged with rags. This practice could easily introduce dirt or lint into critical hydraulic components of the tractor.

2. VALVE CONTROL LEVER ADJUSTMENT

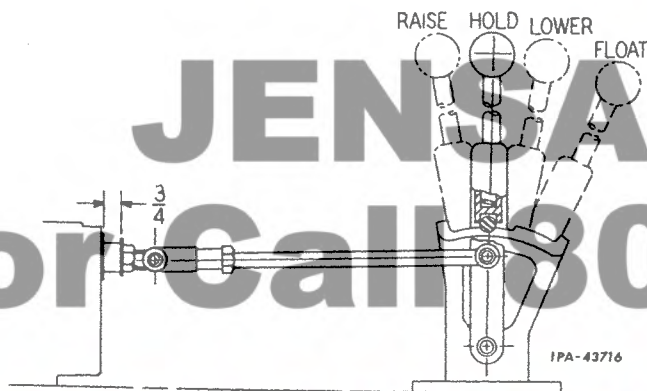
(Ref. Nos. Refer to Illust. 2.)

To insure maximum speed and satisfactory operation, be sure that the valve control hand lever is properly adjusted in conjunction with the operating plunger of the control valve.

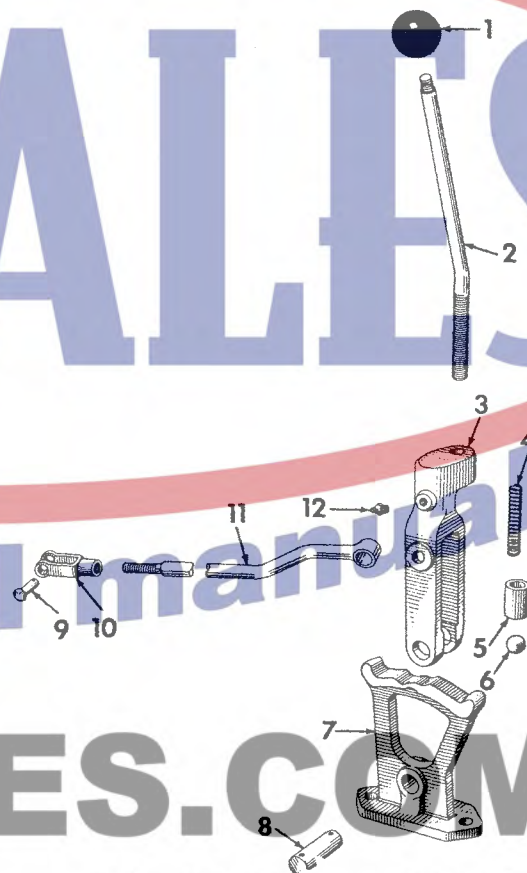
The operating plunger should extend forward 3/4 of an inch out of the valve housing with the lever in "HOLD" position (Illust. 1).

Place the control lever in the "HOLD" position (second notch from the rear of the control quadrant) and adjust as follows:

- Remove the clevis pin (9) from the clevis (10) and disconnect the clevis from the eye of the operating plunger.
- Using a ruler, slide the operating plunger in or out to obtain a 3/4 inch adjustment (Illust. 1).



Illust. 1
Valve Plunger Adjustment.



Illust. 2
Valve Control Lever.

- | | | |
|------------|--------------|--------------|
| 1. Ball. | 5. Retainer. | 9. Pin. |
| 2. Handle. | 6. Ball. | 10. Clevis. |
| 3. Yoke. | 7. Bracket. | 11. Rod. |
| 4. Spring. | 8. Pin. | 12. Fitting. |

Operator's Manual

INSTALLING INSTRUCTIONS



Hydraulic Remote Control Attachment

for

T-6, TD-6, T-9, TD-9
and TD-14A

Crawler Tractors

JENSALES.COM

or Call **800-443-0625**

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