



Allis Chalmers

Operator's Manual

D-15

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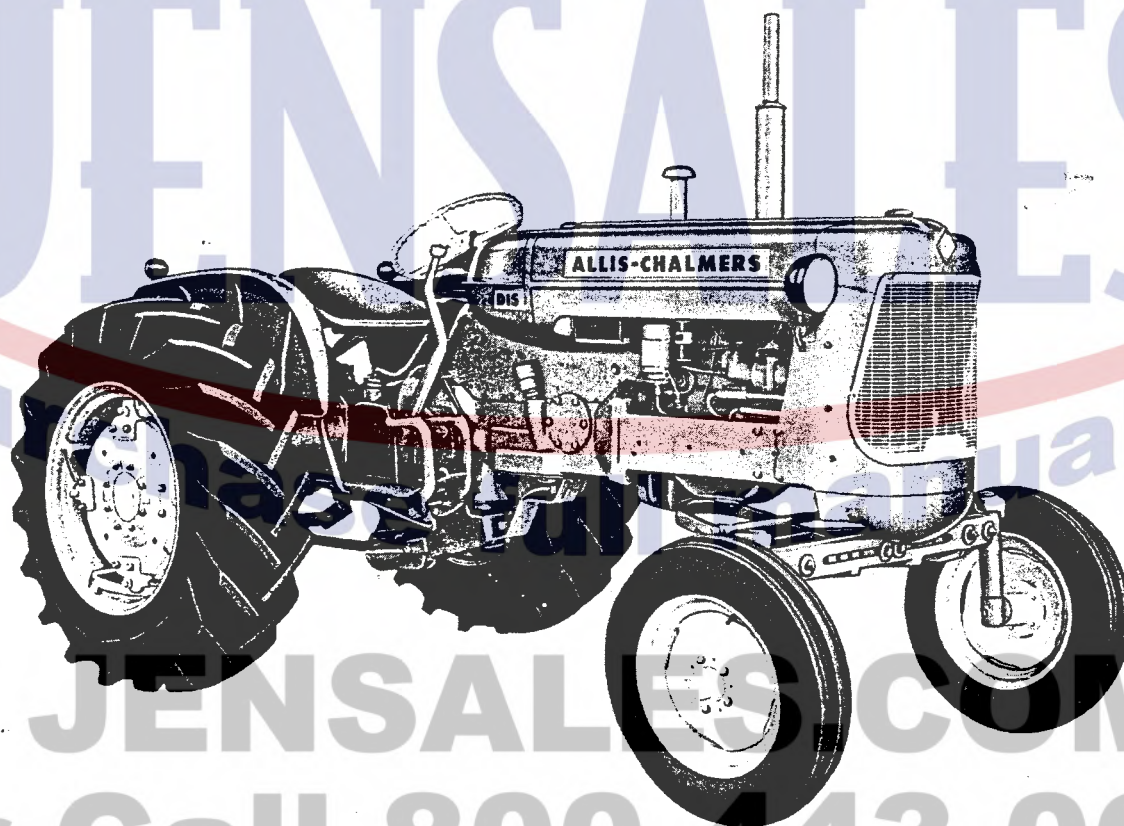
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AC-O-D15 GAS

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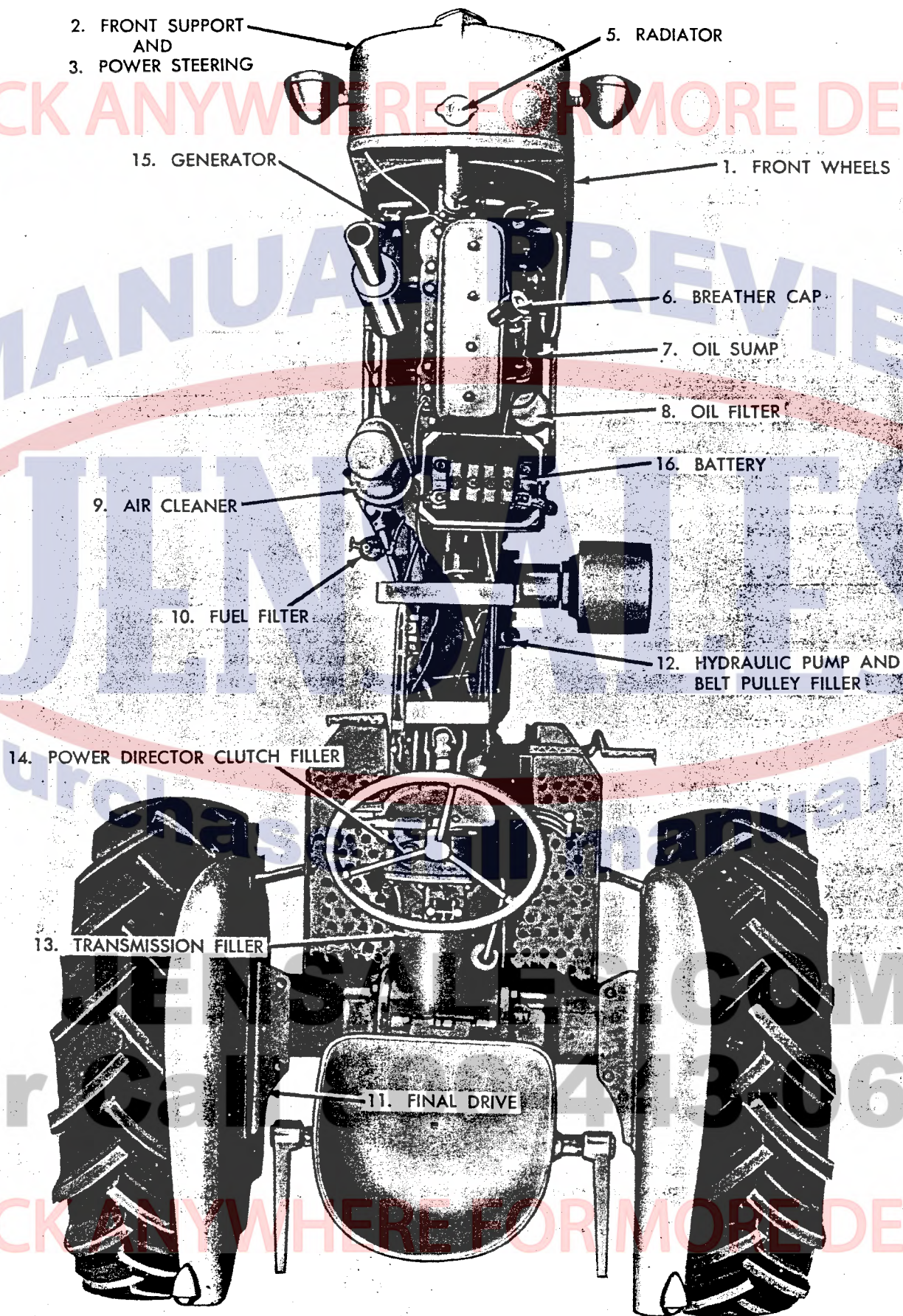
**OPERATORS INSTRUCTIONS
FOR
MODEL D15
GASOLINE TRACTOR**



ALLIS-CHALMERS MFG. CO.

MILWAUKEE, WISCONSIN, U. S. A.

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ENGINE CLUTCH

The clutch release pedal is located at the left hand side of the torque housing. The clutch is provided for engaging or disengaging the power of the engine from the tractor. It disengages power from all power outlets including belt pulley or P.T.O. shaft.

The clutch is adequate for many hours of normal use, but if abused or incorrectly used in any manner, its life can be drastically shortened. A clutch should never be slipped more than necessary, if used as a speed reducer or for starting loads under full engine power, the life of the clutch will be drastically shortened.

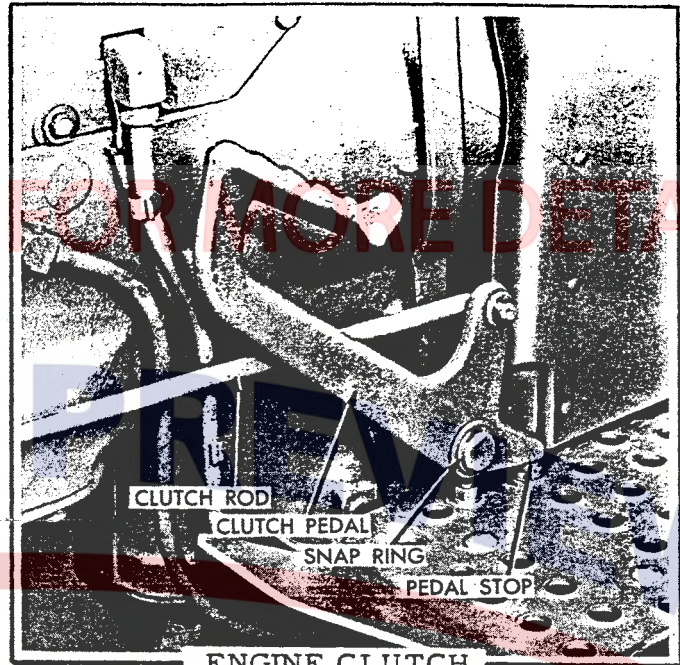
In the normal use of the clutch, it should only be engaged with the engine at reduced speed, and engaged as fast as possible to acquire a gentle start with the least amount of slipping. Therefore, the fastest engagement possible under the existing circumstances gives the best clutch life. Increase engine speed after the clutch is engaged.

CLUTCH ADJUSTMENT

As the clutch lining wears, the clutch release bearing clearance becomes lesser, and the clutch pedal free movement will gradually diminish. There must always be some free pedal free movement before starting to release the clutch, otherwise it will lead to clutch slippage or failure of the clutch release bearing.

To adjust the clutch release bearing clearance, or the clutch pedal free movement, disconnect the clutch rod from the pedal. To do this, remove the snap ring and slide pedal outward on pivot pin until the clutch rod can be disconnected without difficulty.

Shorten clutch rod by turning clockwise to in-



crease the clutch release bearing clearance. Adjust the length of rod until there is $1/4$ " plus or minus $1/32$ " between clutch release bearing and clutch release levers with clutch rod attached to pedal.

The clutch pedal is provided with a stop that contacts a capscrew attached to the foot platform. This pedal is originally adjusted by adding washers to the capscrew until a measurement of $4-1/8$ " plus or minus $1/8$ " between tip of toe plate on foot platform to bottom edge of clutch pedal.

The pedal may be adjusted closer to or further from the operator by removing or adding washers to the pedal stop capscrew. If the pedal position is adjusted to suit the operator, the pedal rod must also be adjusted to provide the proper clutch release bearing clearance.

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GEAR SHIFTING - TRANSMISSION

The transmission has a shift lever to select the proper gear speed for the work being done. Before shifting into any gear, release the engine clutch fully and allow it to almost stop rotating. At this instant move the shift lever from neutral to the desired gear position. With a little practice, the operator will be able to shift gears without clashing, or having difficulty of gears engaging.

Always stop the forward motion of tractor before changing from one gear to another by releasing clutch and applying brakes, if necessary. Never attempt to shift gears on the go as excessive gear clashing may result. To shift from one gear to another, shift directly to the neutral position, then move lever to desired position before shifting to the next gear, never force lever from one gear to another.

To shift from neutral to low gear, follow the diagram, and move lever to left and forward. Move rearward to neutral. To shift to second gear, move lever to right and rearward. Move forward to neutral. To shift to third gear, move lever to right and forward. Move rearward to neutral. To shift to fourth gear, move lever to left and rearward. Move forward to neutral. To shift to reverse gear, move lever to center of neutral position and rearward. Move forward to neutral.



GEAR SHIFTING

Transmission shift lever should always be in the neutral position before starting engine, or before dismounting from tractor. Gear shifting should be made at reduced engine speed. This will make shifting easier and reduce clashing. Increase engine speed sufficiently to start load. After clutch is engaged, increase engine speed to full throttle, especially on loads.

FRONT WHEEL TREAD ADJUSTMENT

FRONT WHEELS - STANDARD

The front wheels have a tread adjustment from 51" to 78". With the dish of the wheel turned in, the tread can be adjusted from 51" to 71". By reversing the wheels and turning the dish of the wheel out, the tread can be adjusted from 58" to 78".

Each wheel has five adjusting increments of two inches each. With the dish of wheels turned in will permit tread adjustment of 51" - 55" - 59" - 63" - 67" and 71". By reversing the wheels and turning the dish of the wheel out will permit tread adjustments of 58" - 62" - 66" - 70" - 74" and 78".

FRONT WHEELS - HIGH CLEARANCE

On high clearance equipped tractors the front wheel tread may be adjusted from 60" to 90-1/2". With the dish of the wheels turned in, the tread can be adjusted from 60" to 80". By reversing the wheels and turning the dish of the wheel out, the tread can be adjusted from 70-1/2" to 90-1/2".

Each wheel has five adjusting increments of two inches each. With the dish of the wheels turned in will permit tread adjustments of 60" - 64" - 68" - 72" - 76" and 80". By reversing the wheels and turning the dish of the wheel out will permit tread adjustments of 70-1/2" - 74-1/2" - 78-1/2" - 82-1/2" - 86-1/2" and 90-1/2".

ROLL SHIFT FRONT AXLE



ADJUSTING WHEELS TO WIDER TREAD

To adjust the right front wheel to wider tread, remove outer bolts from holes at "A" in axle assembly, and place bolt into hole at "B" in spindle arm. Loosen capscrew in slot at center. Turn steering wheel to extreme right to allow bolt to lock spindle arm rigid. Now turn steering wheel to left until desired holes match with holes at "A" and replace outer bolts. Tighten capscrew at center slot. Loosen right hand tie rod clamp and turn steering wheel to right until proper mark appears on tie rod, and retighten clamp. Return wheels to the straight ahead position.

To adjust the left front wheel to wider tread, remove outer bolts from holes at "A" in axle as-

sembly, and place bolt into hole at "B" in spindle arm. Loosen capscrew in slot at center. Turn steering wheel to extreme left to allow bolt to lock the spindle arm rigid. Now turn steering wheel to right until desired holes match with holes at "A" and replace outer bolts. Tighten capscrew at center slot. Loosen left hand tie rod clamp and turn steering wheel to left until proper mark appears on tie rod, and retighten clamp. Return wheels to the straight ahead position.

ADJUSTING WHEELS TO NARROWER TREAD

To adjust the right front wheel to narrower tread, turn steering wheel to the extreme right. Loosen the right hand tie rod clamp. Turn steering wheel to left until the proper mark appears on the tie rod, and retighten clamp. Remove bolts at "A"