



Allis Chalmers

Operator's Manual

G

Operator's Manual

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AC-O-G

Make: Allis Chalmers	Model: G	Years Made: 1948-1955
HP-PTO:	HP-Engine:	HP-Drawbar: 10
HP-Range: 10	Engine-Make: CONTINENTAL	Engine-Fuel: GAS
Engine-Cyl(s)-CID: /62	Transmission-STD:	Optional:
Fwd/Rev Standard: 3	Fwd/Rev Optional:	Mfwd-Std/Opt:
Tires-Std Front:	Tires-Std Rear:	Wheelbase-Inch:
Pto Type:	Pto Speed:	CAT I-3pt Hitch: False
CAT II-3pt Hitch: False	CAT III-3pt Hitch: False	Hitch Lift:
Hydraulics-Type:	Hyd-Cap:	Hyd-Flow:
Hyd Std Outlets:	Cooling Capacity:	Fuel Tank Capacity:
Cab-Stdm A/C; Rops:	Weight: 1550	New Price: 970

TOP OF TRANS, REAR OF SHIFT LEVER		
Year	Beginning Serial Number	
1948	6	
1949	10961	
1950	23180	
1951	24006	
1952	25269	
1953	26497	
1954	28036	
1955	29036	

Paint Codes		
Location	MFG Color Name	
ENTIRE TRACTOR LESS RIMS	ACPERSIANORANGE1	
FRONT AND REAR RIMS	ACALUMINUM	

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**OPERATING INSTRUCTIONS
MAINTENANCE
AND
REPAIR PARTS ILLUSTRATIONS
MODEL "G" TRACTOR**



ALLIS-CHALMERS MFG. CO.

**TRACTOR DIVISION
MILWAUKEE, WISCONSIN, U. S. A.**

LITHO. IN U. S. A.

FORM TM-4 B

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TRANSMISSION

STEERING GEAR

FRONT WHEEL

BRAKE LEVER

BATTERY

FUEL TANK

RADIATOR INTAKE

AIR CLEANER

OIL SUMP

OIL FILTER

GENERATOR

purchase full manual at

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LUBRICATION GUIDE

NO GREASE FITTINGS REQUIRING THE USE OF GREASE GUN

FRONT WHEELS

Remove wheels, clean and repack with #2 wheel bearing grease every 200 hours.

STEERING GEAR

Use S.A.E. 140. Remove cover keep filled to 1/2" below front edge of housing.

BATTERY

Check weekly electrolyte solution must be maintained 1/4" above separators.

FUEL TANK

Capacity 5 gals.

RADIATOR

Capacity 6-1/2 qts. Keep filled, never allow level to fall below intake.

AIR CLEANER

Clean and refill oil cup daily. Fill to level mark, using engine oil of same viscosity as used in oil sump.

OIL FILTER

Capacity 1 pint. Replacement is usually necessary after 200 hours of operation.

BRAKE LEVER

Oil hinge or pivot with motor oil each 100 hours.

OIL SUMP

Capacity 3 quarts, 3-1/2 quarts with oil filter. Drain and refill after 60 hours. Maintain oil level to full mark on oil gauge rod. For temperatures above 90°F. use SAE 30; for lowest expected temperatures of 32°F. use SAE 20; for lowest expected temperatures of 10°F. use SAE 20W; for temperature below 10°F. use SAE 10W.

GENERATOR

1 drop oil of same viscosity as used in engine every 100 hours.

FUEL FILTER

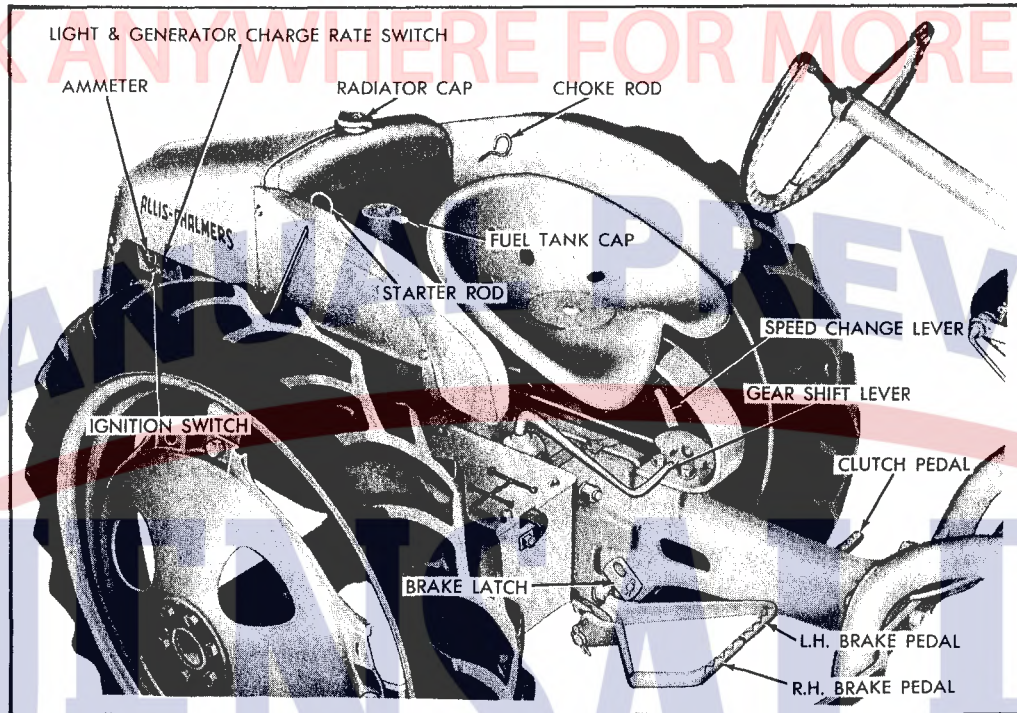
Check daily, clean when necessary.

TRANSMISSION AND DIFFERENTIAL

Transmission, Differential and Special Low Gears, capacity 8 quarts, SAE 20W transmission oil. Keep filled to level of filler plug. Drain flush and refill once a year. Drain from 2 plugs in bottom of transmission case and one plug in left side of frame casting.



BEFORE STARTING TRACTOR



1. Familiarize yourself with the tractor and its operating controls.
2. Check all points of lubrication as outlined in lubrication guide.
3. Check air pressure in tires.
4. Fill tank with gasoline. Never fill tank when engine is hot or running. Shut off engine and allow to cool.

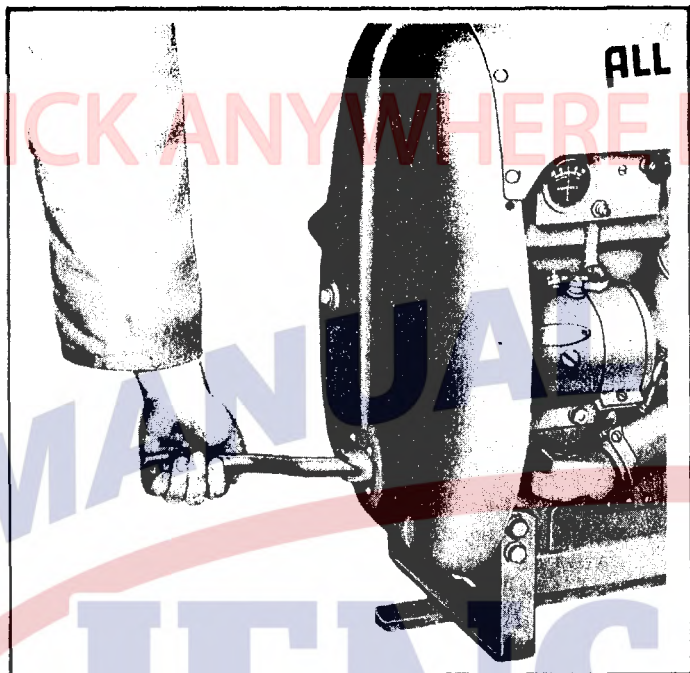
STARTING THE ENGINE

Place gear shift lever in neutral position. In cold weather hold clutch pedal down until engine starts to relieve starter load. Turn on ignition by pulling out switch located on instrument box. Move throttle control back about four notches. Pull carburetor choke

rod. Pull starter control lever rod. When engine has turned one complete turn, release choke rod. As soon as engine starts, release starter rod. If weather is cold more choking may be necessary, or if engine is hot, choking may not be required.

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HAND CRANKING



Push clutch pedal down and engage pedal lock. Proceed as under "Starting Engine".

Engage crank grasping handle with left hand, placing thumb on same side of crank as fingers.

Crank in quarter turns only, pulling up and over. Do not attempt to "spin" engine.

When engine starts release clutch pedal lock. Do not operate engine with pedal locked forward.

OIL PRESSURE



When the engine is started see that the oil pressure gauge is registering pressure. Do not operate engine unless the oil gauge registers. While operating engine look at oil pressure gauge at frequent intervals to make sure oil is being circulated by the pump. The oil pressure indicator needle should remain near the R or M in the word normal, when the engine is hot and running at its normal speed. A slight decrease will be noted when engine idles.

BREAK IN PERIOD

The engine requires very little "breaking in" however, if the work can be arranged, the tractor should be used on light loads, the first 10 or 20 hours of operation. It should also be operated at its rated R.P.M. This is usually about three notches from the wide open position on the throttle lever quadrant.

New and reconditioned engines for the initial 50 hours of operation should use S.A.E. 20 oil. If the operation is normal, the oil change recommendation in lubrication guide may be followed.

STOPPING THE ENGINE

Place throttle in idling position and allow to idle for a few moments. Push in switch lo-

cated on instrument panel.

STARTING TRACTOR

With the engine running, push and hold the clutch pedal forward to release clutch. Hold in this position until the clutch stops revolving. Move the gear shift lever to the desired

speed position. Release the clutch pedal slowly to avoid jerking. Have throttle open far enough to avoid stalling engine.

STOPPING TRACTOR

Push clutch pedal forward, allow tractor to stop or if necessary apply brakes. Place gear

shift lever in neutral position. Release clutch pedal.

OPERATING TRACTOR

Easy turns may be made by simply turning steering wheel to right or left as desired. Foot brakes are provided for making extremely short turns. Turn steering wheel in direction desired and then apply brake on side towards which the tractor is being turned. Do not attempt short turns when traveling at high speeds. When using the brakes for stopping on an incline or for belt work, the brake may be held in the engaged position with the

pedal lock. Operate engine at full throttle or nearly full throttle and select the desired transmission speed change gear to suit the work being done. The shift diagram is located on battery box cover. First to the right and down second to left and down third to the left and up. Reverse to the right and up. Special low to the extreme right and down, turning shift handle slightly while shifting.

FRONT WHEELS

Lubrication

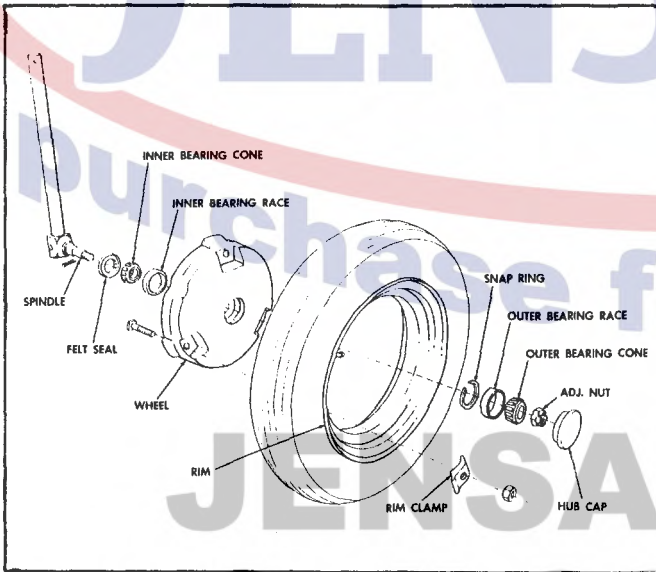
Remove wheels, clean and repack bearings with No. 2 wheel bearing grease every 30 to 60 days. Adjust bearings.

Tire Pressure

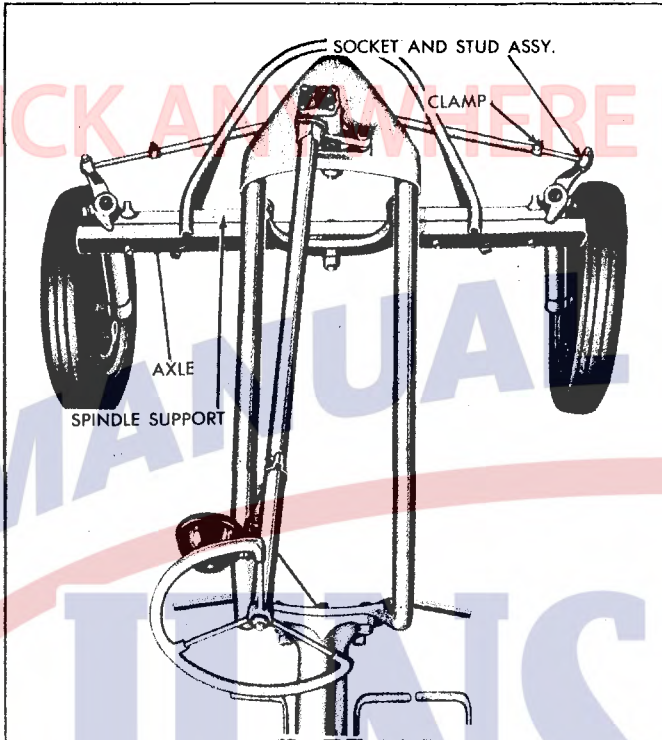
15 lbs. front.

Bearing Adjustment

Remove the weight from wheels and check for side play. If side play exists, it will indicate bearings are loose and it will be necessary to adjust bearings. To adjust bearings: Remove hub cap and tighten the nut on end of spindle until all play is removed and bearings have a free rolling fit. The inside of wheel hub is provided with a felt washer to protect bearings from dirt and to retain grease in the hub. This felt washer should be replaced once each season or oftener if necessary.



FRONT WHEEL SPACING



The front axle tread is changed by jacking up the front axle bar placing jack so it will not interfere with spindle supports. Remove the two retaining bolts holding spindle support in the front axle bar and loosen clamp on drag link. It is advisable to oil or grease tie rod to aid in future adjustment. The following chart shows the position and spacings obtainable.

The steering arm should be in the straight ahead position and line up with center line of tractor. The steering wheel spoke verticle as shown, cut out portion of wheel is in upper right position.

The "toe-in" should be from zero or straight ahead to 1/16" "toe-in" at the front.

Tighten clamp bolts on tie rod securely.

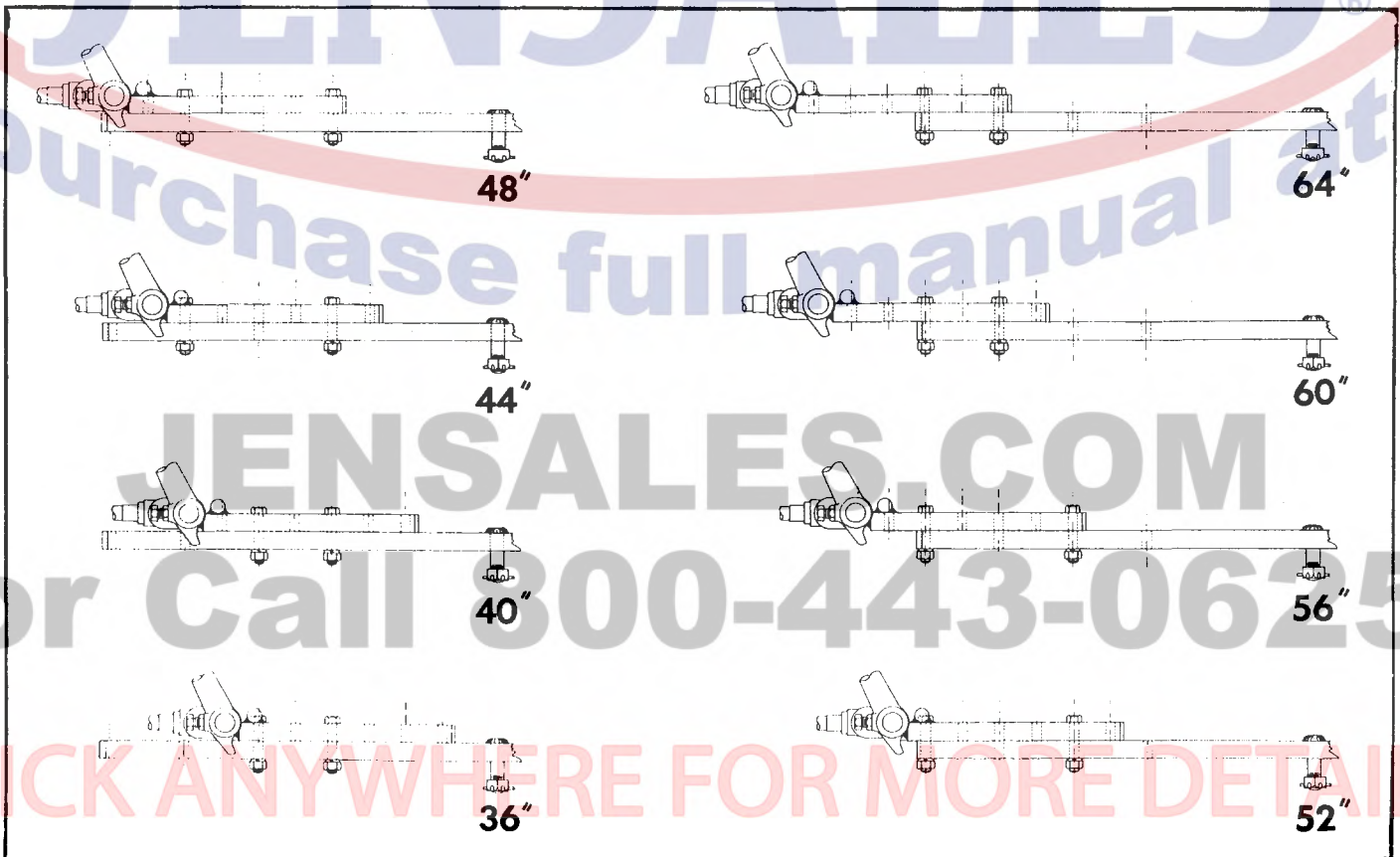


Diagram shows wheel spacing for left side only. Adjust right axle in same manner to

acquire wheel spacings shown.

REAR WHEELS

Tires:

Do not add any wheel weights or calcium chloride solution to tires. The recommended inflation is 12 lbs. for the rear tires. When plowing the furrow wheel has greater traction than the land wheel. Do not decrease pressure

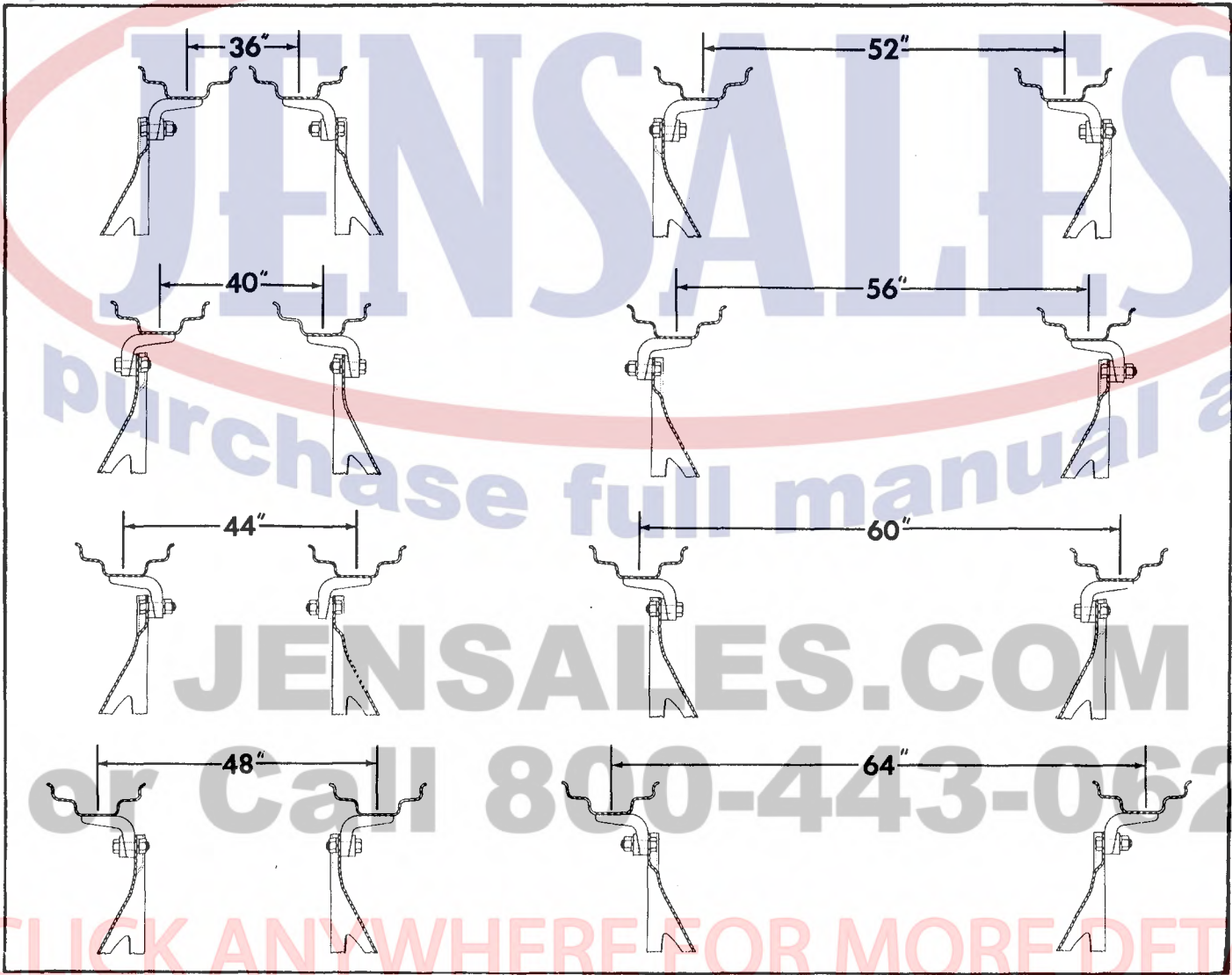
to equalize, instead increase the pressure in the furrow wheel to 13 lbs. High pressure will cause no damage to tires unless slippage is excessive. Watch the tread wear and correct tire pressure if it is excessive or uneven.

REAR WHEEL SPACING

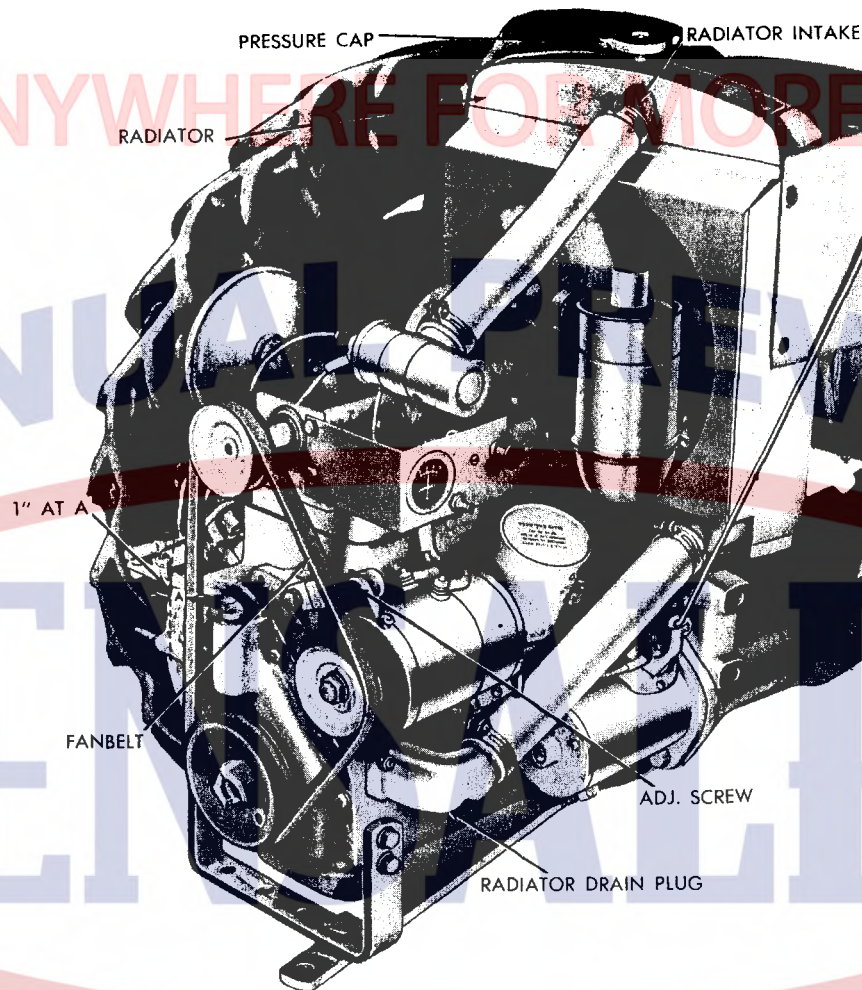
Wheel spacing is adjustable to meet the requirements of the various implements and the row spacing of different crops.

The rear wheels are adjustable by locating as shown on the chart and turning the rims

in or out. When turning the rims, they must be changed from one side of the tractor to the other to keep the tread turning in the proper direction. (The open end of V forward when viewing tread marks on ground.)



RADIATOR AND COOLING SYSTEM



Capacity: 6-1/2 quarts

The thermo-syphon system does not require the use of a water pump but it is extremely important with this system that the water level in radiator never falls below the intake where it enters radiator. Should this take place, the water will cease to circulate due to the break in continuity of water flow. Overheating will result with possible damage to the engine.

Radiator

The pressure radiator permits the use of a higher operating temperature. The cooling solution (pure water) will not boil in the pressure radiator until a temperature of 230°F is reached. CAUTION: Do not remove the cap when the temperature is above 212 F as the cooling solution will break into a violent boil which may splash on person removing cap.

With the thermo-syphon system it is unnecessary to provide thermostat, radiator shutter or temperature gauge because the temperature is automatically controlled reducing the possibility of condensation and corrosion.

Fan Belt

To adjust:

Loosen the generator adjusting screw and move the generator away from cylinder block until about 1" free movement at "A" is obtained. If fan belt bottoms in either of the sheaves the belt should be replaced.

Extreme tightness will reduce the life of the belt, generator bearings and fan shaft bearing.

Draining

Be sure cooling system is refilled before starting engine. To drain cooling system,