

# **350, 500B, 600B Series Tractors**

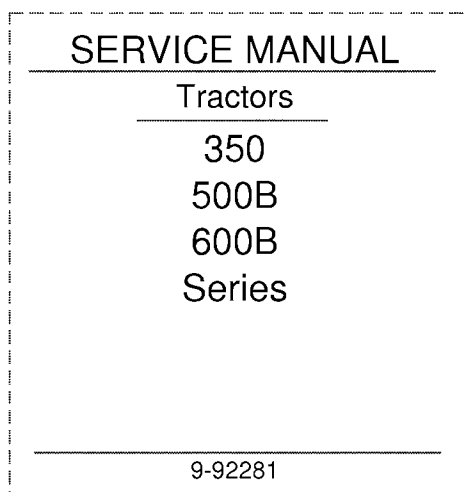
## **Service Manual**

**9-92281**

Reprinted

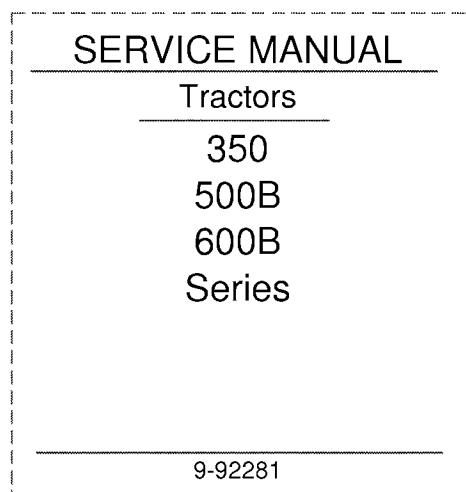






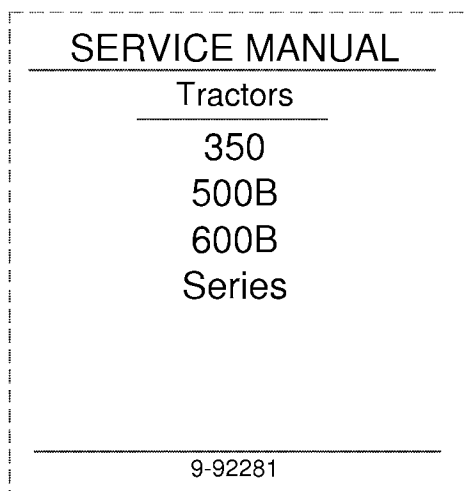
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2. Slide into pocket on Binder Spine.

TYPE 1-4



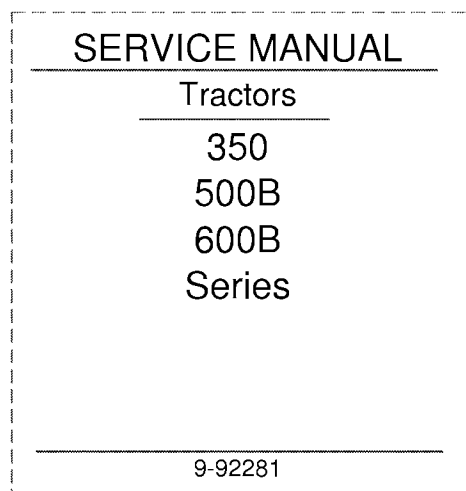
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TYPE 1-4



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2. Slide into pocket on Binder Spine.

TYPE 1-4

# "350," "500B," "600B" SERIES TRACTORS

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**Thanks very much for your reading,  
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**"350," "500B," "600B" SERIES TRACTORS**

**GROUP A — GENERAL**

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As a Member of the National Safety Council, we are privileged to use the Green Cross for Safety to designate not only our interest in Farm Safety, but to point out more clearly the safety precautions in this manual.

## "350," "500B," "600B" SERIES TRACTORS

### GROUP A — GENERAL

## SECTION I, USE OF MANUAL

This manual is divided into sections, with each section made up as an individual book. Each section or book is punched and can be combined into a complete manual with the cover and screw posts furnished or can be put in a standard ring book binder for convenient removal of individual sections as required in the service shop.

Here is how to use this manual:

1. **Groups.** Each complete unit or sub-assembly is covered in a "Group." Groups are identified by letters (A, B, C, etc.) To locate a *group* in which any particular assembly is contained, refer to the front page of this book.

To enable you to locate each group readily, the index is on the front and back sides of the first yellow page. The group index lists the items covered within each section and page references.

2. **Sections.** In each Group are Sections covering specific parts of the Group. Sections are designated by numerals (I, II, III, etc.)
3. **Pages.** The pages are numbered consecutively within each Group. Page numbers, along with Group identification, appear in the lower *outside* corner of the page while the date on which the page is printed, along with the form number, appears in the lower inside corner.

#### GROUP H, HYDRAULIC SYSTEMS "350," "500B," "600B" SERIES TRACTORS SECTION VII, EAGLE HITCH

##### SERVICING ROCKSHAFT ASSEMBLY

The rockshaft itself will require very little servicing if properly lubricated.

In the event the rockshaft is removed, the quadrant lever and depth control lever, Fig. H-76 should be inspected. On early models these two levers were pinned with a roll pin. Later models are equipped with an assembly with the two levers spotwelded together. If the roll pin shears, the two levers will not move together to throw the system back into neutral after the depth control lever has contacted the stop on the quadrant.

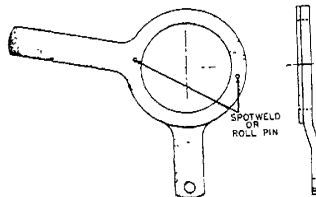


Fig. H-76 Quadrant Lever

##### CONTROL ROD ADJUSTMENT

1. Make certain the sliding spool of the control valve is in neutral position.
2. Place the hand control lever in neutral, (vertical position).

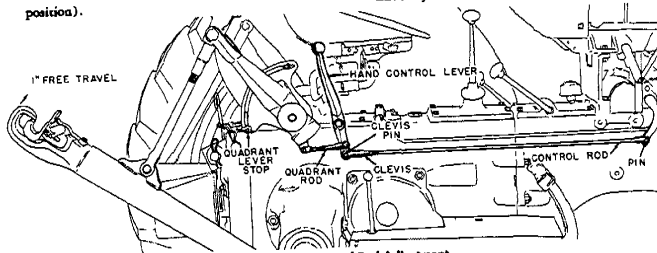


Fig. H-77 Control Rod Adjustment

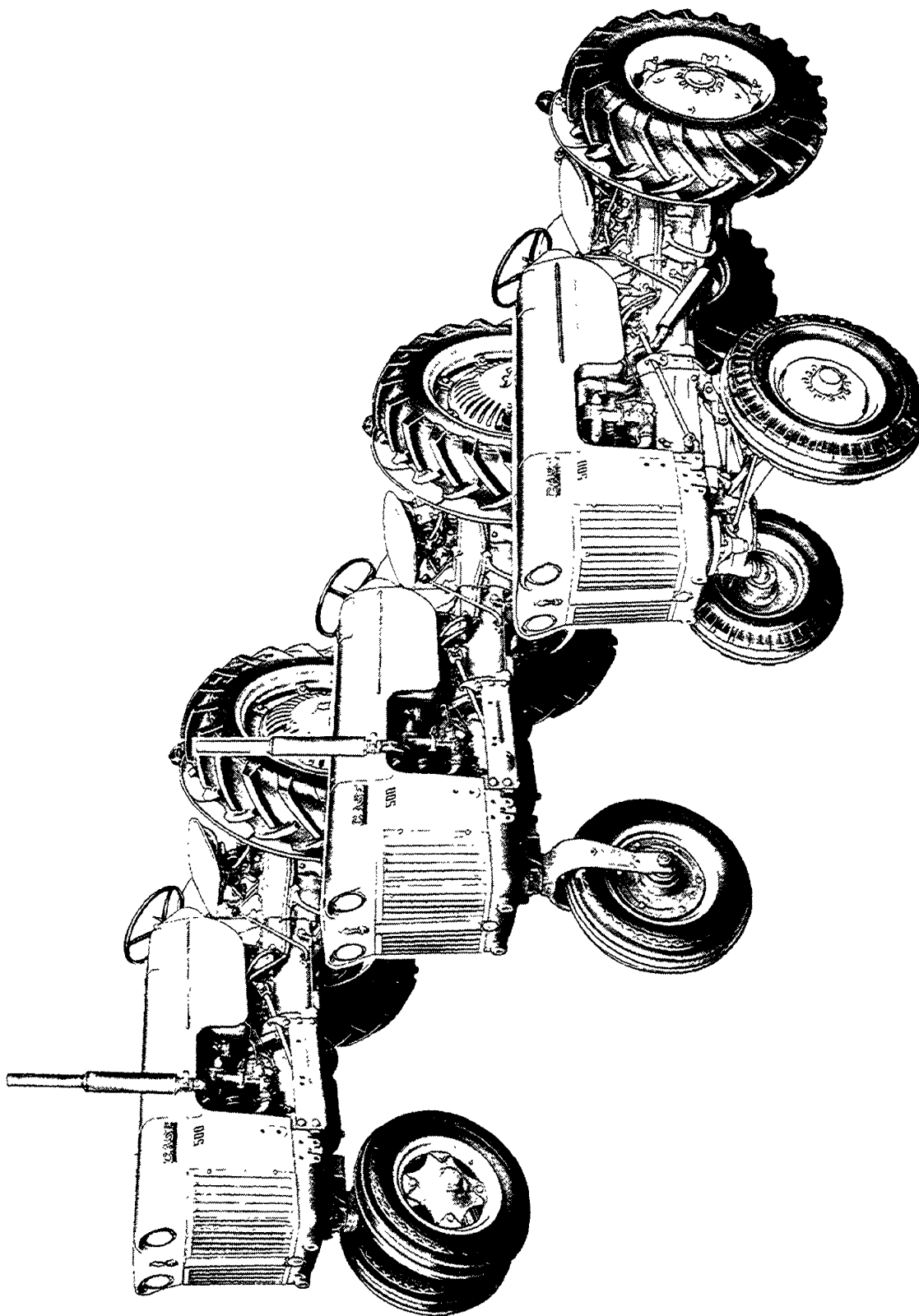
3. Adjust the clevis at the lever end of the rod until the pins can be installed at both ends of the rod without moving either the hand control lever or the crank for the control assembly Fig. H-77.

##### QUADRANT ROD ADJUSTMENT

1. Place the quadrant lever stops in extreme raise and extreme drop position.
2. Start tractor engine.
3. Move hand control lever to raise position.
4. When the draft arms reach the full raised position, the quadrant lever should contact the quadrant stop and throw the hand control lever back to neutral position.
5. While the draft arms are still in full raised position, grasp the Eagle claws and pull upward. There should be approximately one inch free travel at the claws before the rockshaft rocker arm strikes the stop on the housing. Fig. H-77.
6. If sufficient free movement does not exist, adjust the quadrant rod.
  - (a) Shorten rod to increase free travel.
  - (b) Lengthen rod to decrease free travel.
7. A lack of free movement may cause the rocker arm to bottom before the lift arms have reached full raised position. The control levers will not return to neutral and the pump will by-pass continuously.

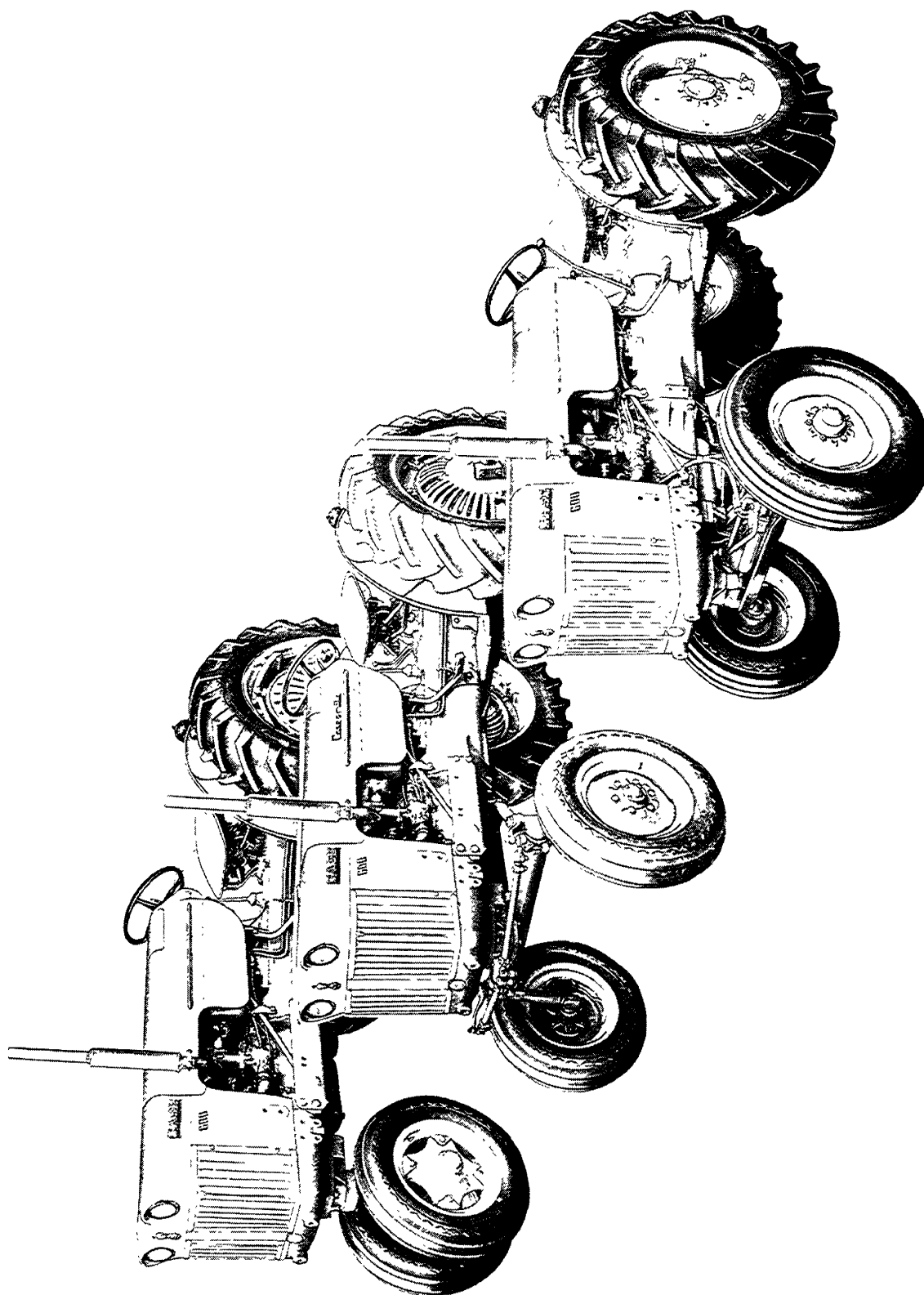
**"350," "500B," "600B" SERIES TRACTORS**

**GROUP A — GENERAL**





**"350," "500B," "600B" SERIES TRACTORS**  
**GROUP A — GENERAL**



# "350," "500B," "600B" SERIES TRACTORS

## GROUP A — GENERAL

### SECTION III, LUBRICATION

#### RECOMMENDED ENGINE AND TRANSMISSION LUBRICANTS

		Anticipated Air Temperature			
Lubrication Points	Approx. Capacities	Above ±70°F.	70°F. to ±32°F.	32°F. to ±20°F.	—20°F. and below
*Engine Crankcase (with filter)	4 qts.	SAE 30	SAE 20-W	SAE 10-W	SAE 5-W
	5 qts.	SAE 30	SAE 20-W	SAE 10-W	SAE 5-W
Air Cleaner Cup	1 pt.	SAE 30	SAE 20-W	SAE 10-W	SAE 5-W
Transmission and Differential Case	11 gal.	Multi-Purpose Type Lubricant (E.P.) SAE 90      SAE 90      SAE 90**			SAE 90**
Case-O-Matic		4 gals. ***SAE No. 10-W Motor Oil (MS-DG)			
Reservoir					
Generator		A few drops of oil — Light oil			
All Pressure Fittings		Use No. 1 Pressure Gun Grease			
Steering Gear Housing		Use SAE No. 140 Multi-Purpose Lubricant (E.P.)			
Power Steering Reservoir		1 qt. Automatic Transmission Fluid, Type "A"			

\*When operating a tractor under continuous service, use SAE 10-W oil, in the engine crankcase even though the temperature range indicates SAE 5-W oil should be used.

\*\*During extremely cold weather transmission oil should be thinned with light weight engine oil. This will prevent gears from channeling in cold stiffened gear lubricant.

\*\*\*Alternate Oil — Automatic Transmission Fluid, Type A.  
±SAE 10W-30 Motor Oil can be used in this temperature range.

To simplify the selection of a suitable engine lubricating oil to meet any spark ignition engine service conditions, the American Petroleum Institute (composed of most major oil companies and refineries) has adopted three service designations for spark ignition engine service use:

1. Service "ML" — Not recommended for tractor engine use.
  2. Service "MM" — Moderate to severe engine service.
  3. Service "MS" — Severe engine service.
- These designations will usually be marked on the oil container.

Service "MM" — Moderate to severe engine use where there are *no harmful low or high* operating temperatures, or *no prolonged idling*.

Service "MS" — For severe engine service such as:

1. *Low temperature engine operating conditions* as a result of frequent stop and start operations, prolonged idling, operating with a light load (especially during cold weather).
2. *High temperature engine operating conditions* as a result of heavy loads during very hot weather. Lubricating oils that do not have protection additives to withstand high temperatures may break down under this type of condition, resulting in excessive engine wear and deposits.

Always use a high quality, stable, engine oil having a service designation of either MM or MS depending upon the engine operating conditions.

Front Wheel Bearings	Wheel Bearing Grease
All Pressure Fittings Steering Gear Housing	Use No. 1 Pressure Gun Grease Use SAE No. 140 Extreme Pressure Lubricant

## **"350," "500B," "600B" SERIES TRACTORS**

### **GROUP A — GENERAL**

## **SECTION III, LUBRICATION**

### **EAGLE HITCH AND HYDRAULIC CONTROL SYSTEM CAPACITIES AND OIL RECOMMENDATIONS**

<b>Torque-Tube Housing Capacity</b>	<b>Oil Recommendation</b>
12 qts.* (With Tripl-Range or Shuttle Unit)	**SAE No. 10-W Motor Oil (MS-DG)
14 qts.* (Without Tripl-Range or Without Shuttle Unit)	**SAE No. 10-W Motor Oil (MS-DG)

**\*\*Alternate Hydraulic Oil — Automatic Transmission Fluid, Type A**

### **LUBRICATION CHART**

The lubrication instructions that follow are essentially the same instructions given in the operator's manual but will assist the service man with a convenient lubrication reference when the tractor is in the shop for repair or annual check-up.

It is recommended that a strong effort be made to have each tractor owner bring his tractor into his Case dealers shop for an annual checkup; at which time a complete lubrication service can be performed.

### **10 HOUR SERVICE**

<b>Item to Be Serviced</b>	<b>No. of Fittings</b>	<b>Type of Lubricant</b>	<b>Amount</b>
Steering tie rod ends	2	Pressure Gun Grease	1 Stroke
Spindle bearings	2	Pressure Gun Grease	2 Strokes
Steering arm fittings	2	Pressure Gun Grease	1 Stroke
Power steering drag link (Utility)	2	Pressure Gun Grease	1 Stroke
Power steering valve (Utility)	1	Pressure Gun Grease	1 Stroke
Front axle pivot	1	Pressure Gun Grease	1 Stroke
Front axle pivot, rear	1	Pressure Gun Grease	1 Stroke
Steering column	2	Pressure Gun Grease	2 Strokes
Eagle Hitch draft arms	2	Pressure Gun Grease	1 Stroke

**"350," "500B," "600B" SERIES TRACTORS**

**GROUP A — GENERAL**

**SECTION III, LUBRICATION**

**60 HOUR SERVICE**

Item to Be Serviced	No. of Fittings	Type of Lubricant	Amount
Generator oil cups	2	Light oil	2 Drops
Distributor oil cups	1	Light oil	2 Drops
Eagle Hitch rockshaft bearings	2	Pressure Gun Grease	2 Strokes

**100 HOUR SERVICE**

Item to Be Serviced	No. of Fittings	Type of Lubricant	Amount
Engine crankcase		See temperature chart	5 Quarts
Clutch bellcrank	1	Pressure Gun Grease	1 Stroke
Clutch pedal	1	Pressure Gun Grease	2 Strokes
Brake pedal	1	Pressure Gun Grease	2 Strokes
Brake pedal cross shaft	2	Pressure Gun Grease	2 Strokes
Eagle Hitch turnbuckle	2	Pressure Gun Grease	1 Stroke
Eagle Hitch R.H. lift link adj. screw	2	Pressure Gun Grease	2 Strokes
Single front wheel hub	1	Pressure Gun Grease	2 Strokes

The governor and carburetor control linkage, Case-O-Matic control linkage and hydraulic control linkage should be cleaned and lightly lubricated at all hinge, pivot or contact points.

**200 HOUR SERVICE**

Engine oil filter	Replace Cartridge
-------------------	-------------------

**250 HOUR SERVICE**

Steering gear housing — add enough to bring level to top of worm.
---

**1,000 HOUR SERVICE OR ONCE EACH YEAR**

Transmission — Drain flush and refill <i>Note</i> —To do a thorough job, place at least three gallons of a reliable flushing oil in the transmission; jack up one rear wheel; start engine and operate in each gear for a period of 2-3 minutes.
Torque Tube — Drain flush and refill <i>Note</i> —Do not start engine while flushing oil is in torque tube. Be sure to completely drain Torque Converter and housing in Case-O-Matic tractors. See Case-O-Matic Section "K."

## "350," "500B," "600B" SERIES TRACTORS

### GROUP A — GENERAL

## SECTION IV, SPLITTING TRACTOR

This section deals with steps and safety precautions to be followed when splitting the tractor for engine removal. Notice the method in holding, supporting or lifting the various assemblies. Dimensional drawings are shown so similar devices can be made in your shop.

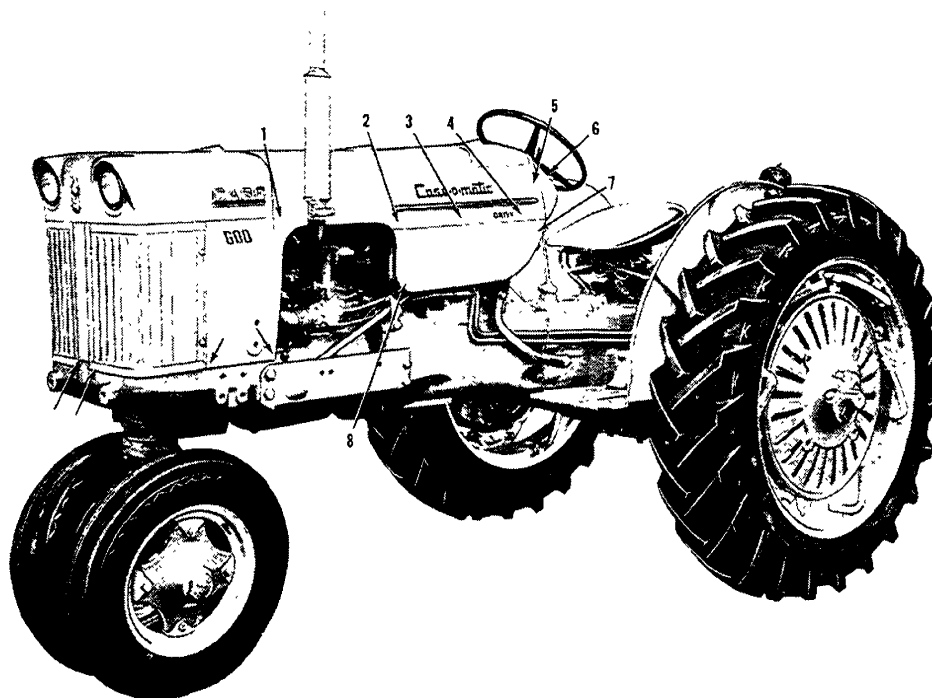


Fig. A-1 Sheet Metal Fasteners

See "300" Series Service Manual, Form 9-92001, for procedure to follow when removing sheet metal from a "350" series tractor.

#### REMOVING SHEET METAL COVER "500B" AND "600B"

1. Remove Phillips head bolts in order shown.
2. Remove rear side panel.
3. Repeat same procedure on other side of tractor and remove both rear panel and hood.
4. Remove grill screens.
5. Remove bolts at inside bottom of front side panels.
6. Remove 2 Phillips head bolts at bottom of grill center brace.
7. Disconnect light wires at snap coupler at rear of grill cap.
8. Remove grill cap and panel assembly.

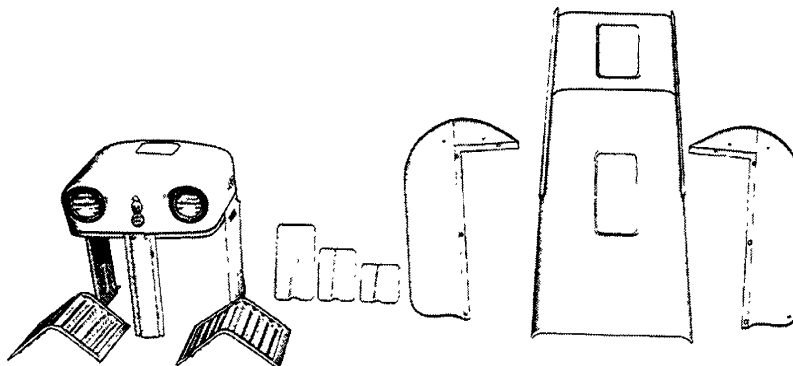
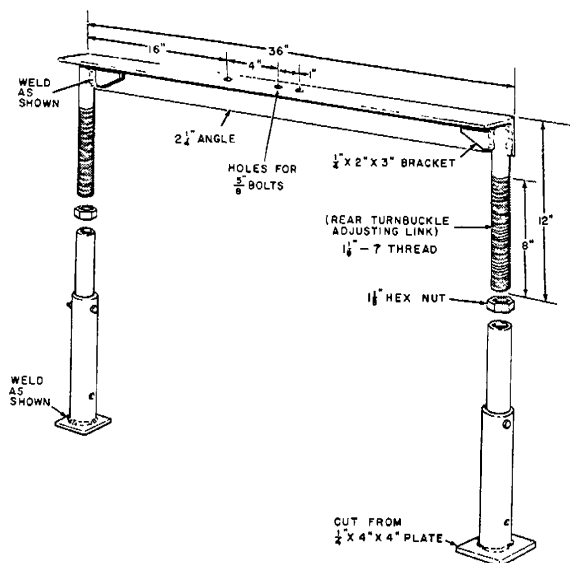


Fig. A-2 Sheet Metal Removed "500B" and "600B"

## "350," "500B," "600B" SERIES TRACTORS

### GROUP A — GENERAL

## SECTION IV, SPLITTING TRACTOR



**Fig. A-3 Torque Tube Saddle Stand**

When making a torque tube saddle stand as shown in Fig. A-3, any heavy duty pipe can be used for the legs.

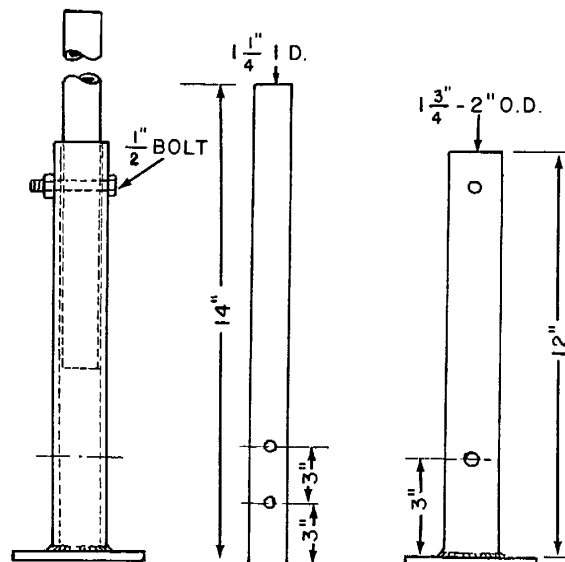
The inside telescoping pipe should be 1-1/4" I.D. to accommodate the 1-1/8" threaded adjusting rods. The size of the outside telescoping pipe will depend upon the wall thickness of the 1-1/4" I.D. pipe.

If the telescoping pipes are cut to length and drilled as shown the stand can be used for splitting all models of the following tractors, 200B, 300, 300B, 400B, 500B, and 600B.

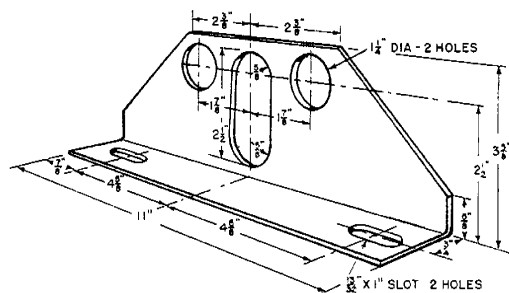
Any available angle can be used for the top section, however, it should not be lighter than 3/8"x2-1/4" leg to provide sufficient strength and stability.

It will be noted that the hole spacing in the torque pad is 4 inches in standard tractors and 5 inches in the Case-O-Matic tractors making 3 holes necessary in the stand top angle to accommodate all models.

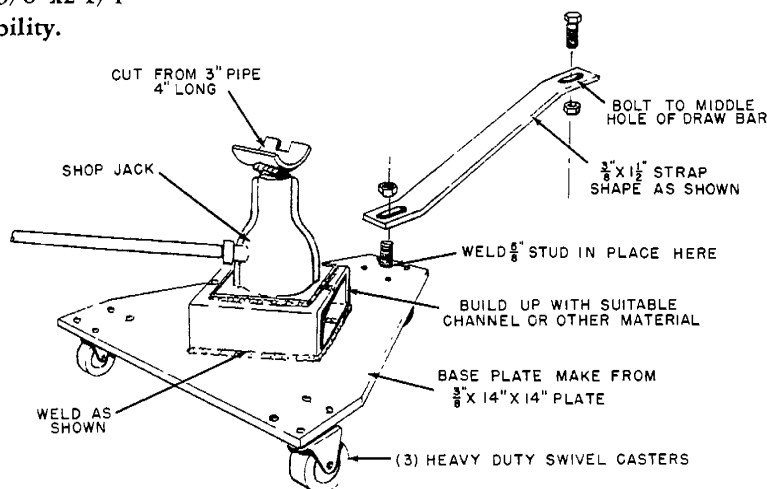
In making the transmission jack Fig. A-5, a piece of 3/8" plate steel, three swivel casters and a screw jack are the basic materials needed for assembling this handy roller jack. A safety support rod which attaches to the jack and the drawbar support bracket is essential in preventing the jack from skidding.



The G11322 engine lifting bracket, Fig. A-4, can be ordered from the Branch Parts Department, or made in the Service Shop according to the dimensions given.



**Fig. A-4 Engine Lifting Bracket**



**Fig. A-5 Transmission Jack**

## SECTION IV, SPLITTING TRACTOR

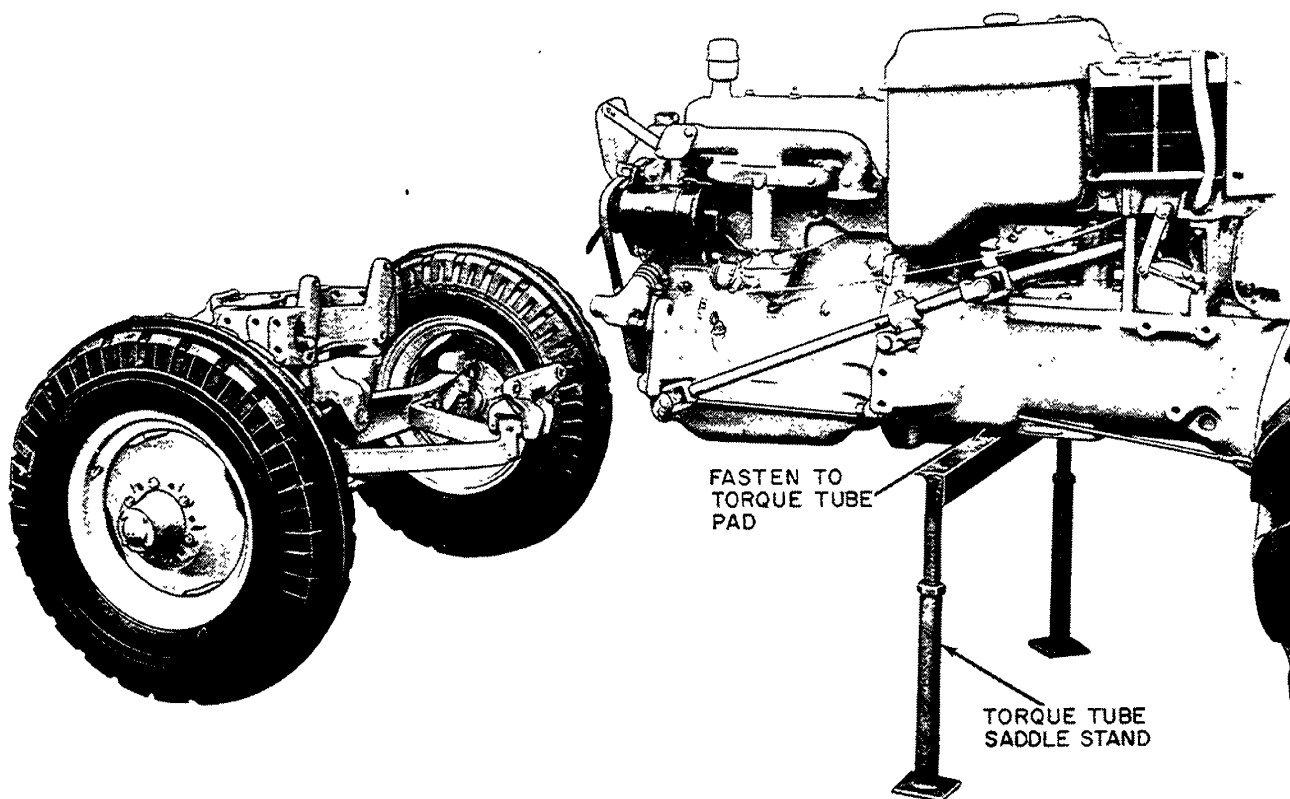


Fig. A-6 Separating from Front Support Bracket

### SEPARATING FROM FRONT SUPPORT BRACKET

Separation at this point will vary slightly with the model and type of front axle; however, the corresponding steps should be followed in any case:

1. Drain cooling system.
2. Remove tractor sheet metal.
3. Remove air cleaner.
4. Remove radiator.
5. Attach the torque tube saddle support stand.
6. Disconnect steering linkage at front universal joint by tapping out the roll pin and moving the assembly rearward.
7. Disconnect radius rod pivot bracket from forward end of torque tube.
8. Disconnect front support from engine block and roll front end forward.

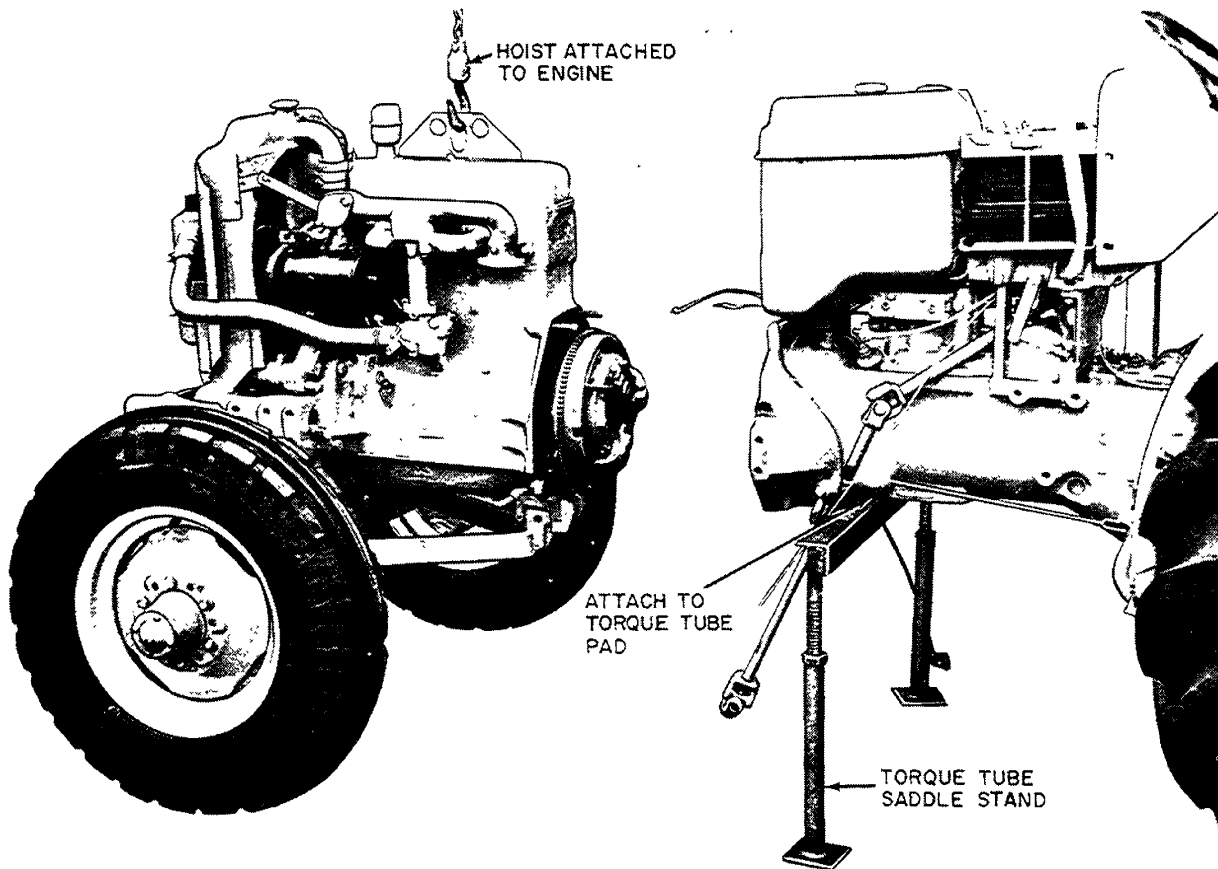
### ASSEMBLY

Install front support bracket in reverse order in which it was removed.

**"350," "500B," "600B" SERIES TRACTORS**

**GROUP A — GENERAL**

**SECTION IV, SPLITTING TRACTOR**



**Fig. A-7 Separating at Torque Tube**

**SEPARATION AT TORQUE TUBE**

1. Remove starter assembly.
2. Shut off fuel supply and loosen fuel line at carburetor.
3. Extract temperature gage at adaptor in cylinder head.
4. Remove primary wire to coil and generator wires.
5. Remove oil gage line.
6. Attach engine hoist brackets and hoist.

**ASSEMBLY**

Install engine and front end assembly to the tractor in reverse order to which they were removed.

*Note*—See Group B Section VII for installation and service procedure covering clutches for standard model tractors. See Group K for removal or installation of torque converter in Case-O-Matic tractors.



## SECTION IV, SPLITTING TRACTOR

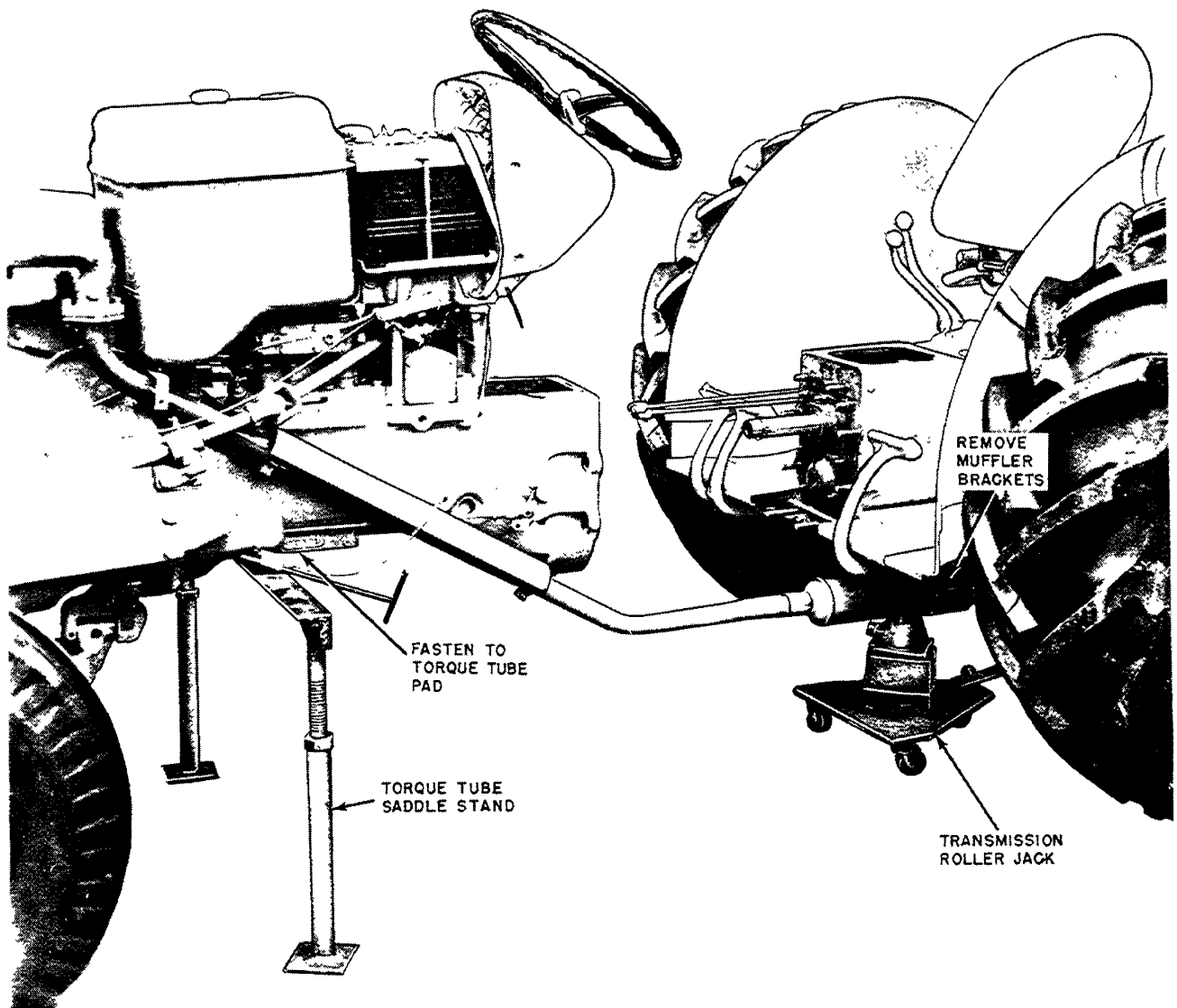


Fig. A-8 Splitting Tractor at Transmission and Torque Tube

### SPLIT TRACTOR AT TRANSMISSION TORQUE TUBE

1. Install torque tube saddle stand.
2. Place roller jack under transmission case.
3. Drain oil from hydraulic reservoir in torque tube.
4. Disconnect clutch rod.
5. Remove gear shift cover and disconnect speedometer drive assembly.

6. Disconnect muffler bracket under operator's platform.

7. Disconnect torque tube at transmission and move transmission section rearward.

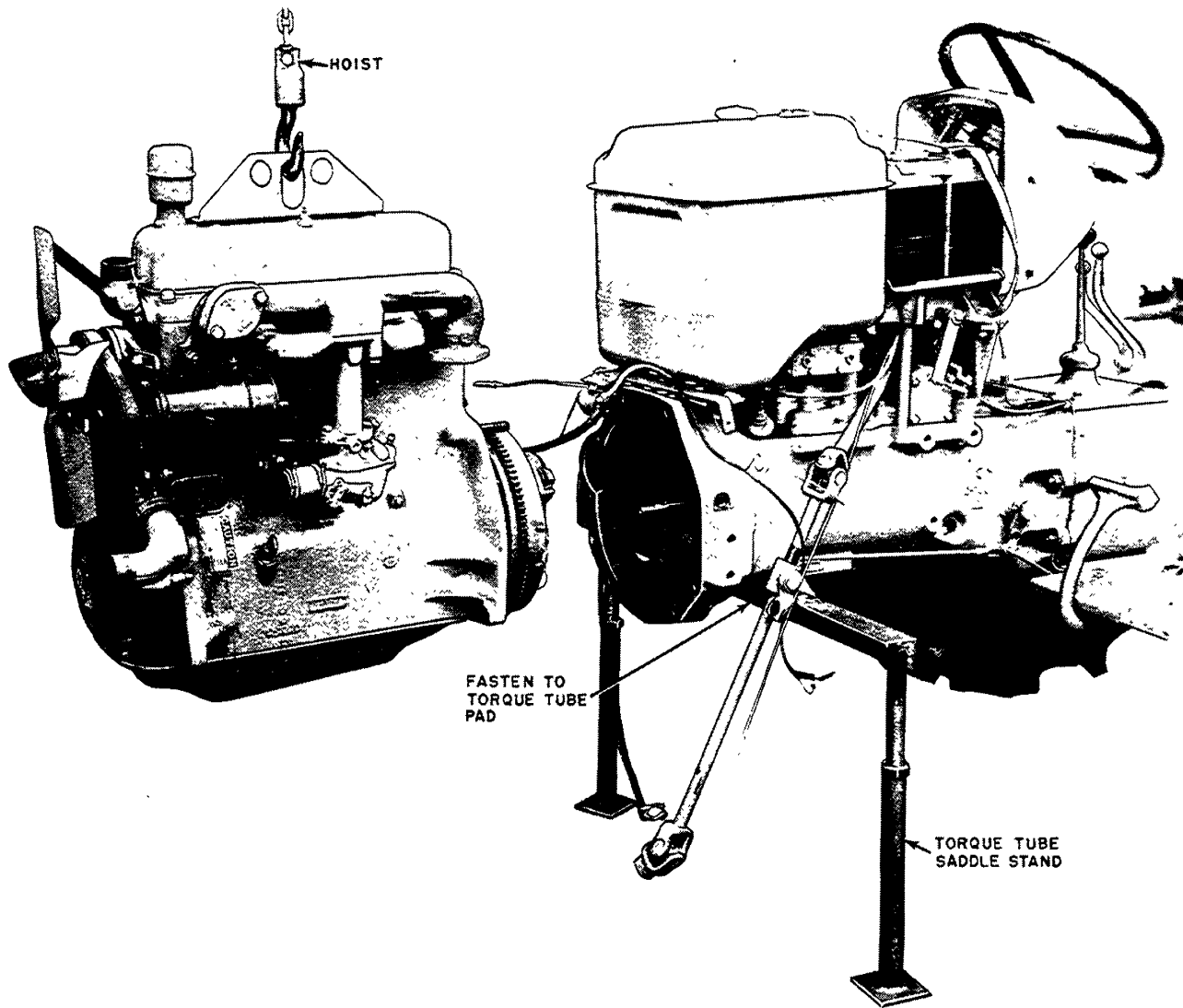
### ASSEMBLY

Install transmission and torque tube in reverse order of which they were removed.

**"350," "500B," "600B" SERIES TRACTORS**

**GROUP A — GENERAL**

**SECTION IV, SPLITTING TRACTOR**



**Fig. A-9 Separating Engine from Front Support and Torque Tube**

**SEPARATING ENGINE ASSEMBLY FROM  
FRONT SUPPORT AND TORQUE TUBE**

Follow procedures outlined on Page A-11.

**ASSEMBLY**

Install engine and front support in reverse order in which they were removed.

On L.P. equipped tractors the fuel line and filters must be disconnected out of doors and the fuel tank removed and stored in a well ventilated area. Perform these operations in an open area where there is no danger of escaping gas entering building or enclosure of any type. Refer to Group B, Section XIII.

# "350", "500B", "600B" SERIES TRACTORS

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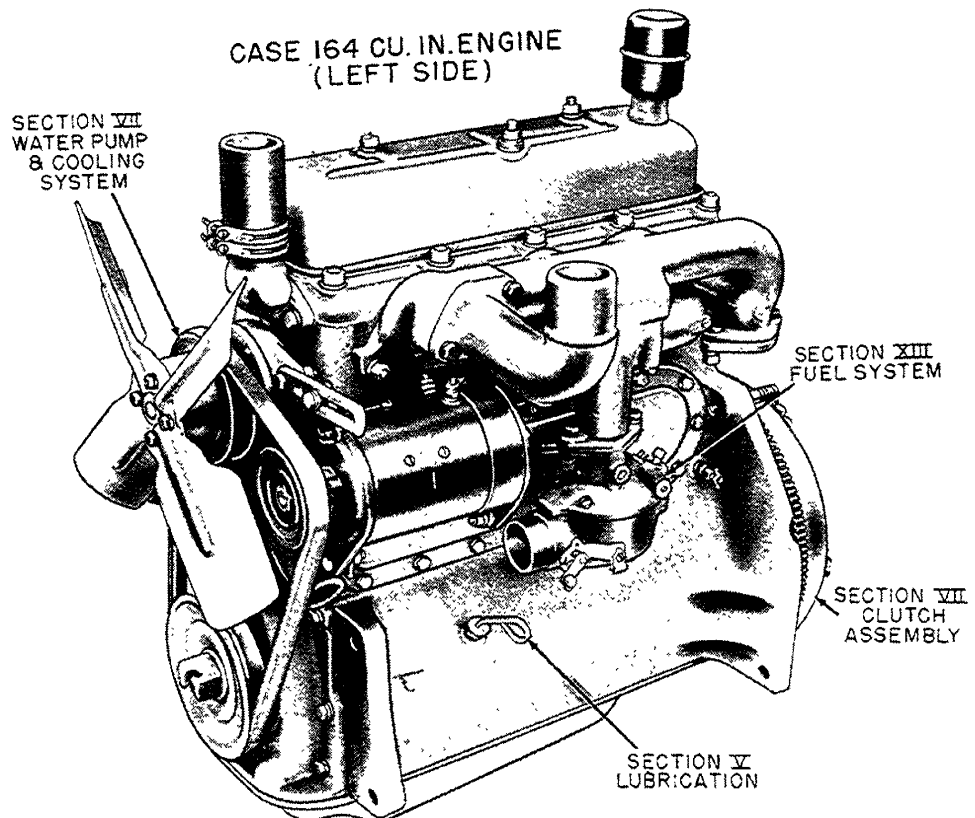
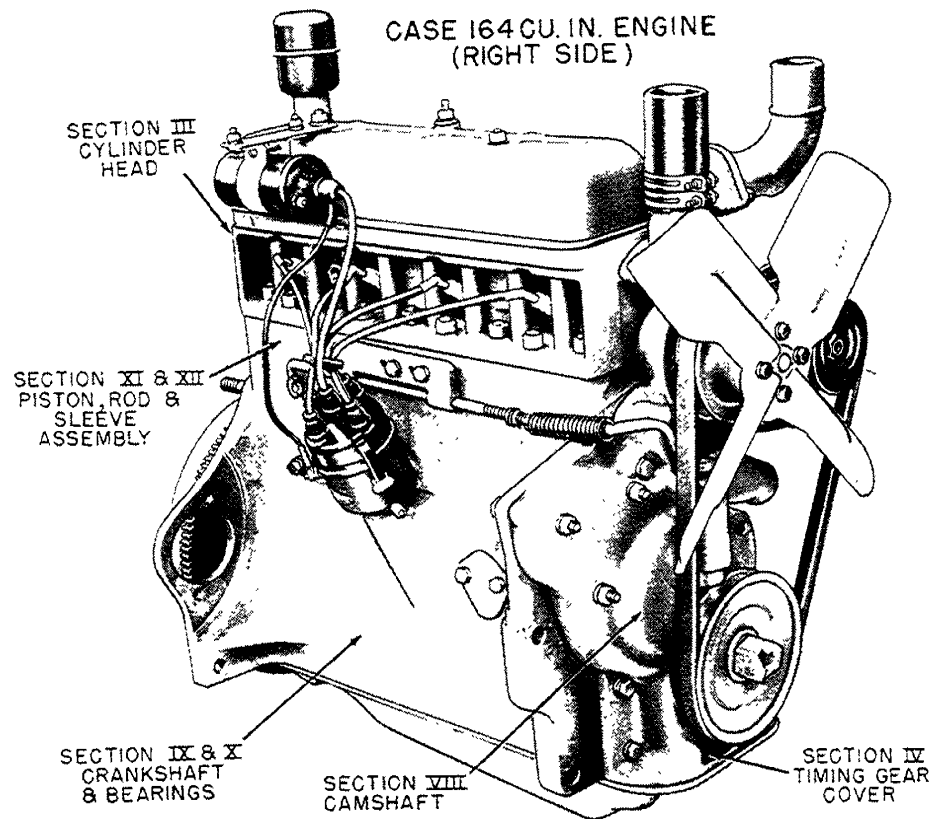
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## GROUP B — ENGINE

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Compression Ratio .....	7.25-1 (gas.) 8.5 to 1 (high altitude & LP)
Exhaust Valve Rotators .....	Positive Type
Valve Guides .....	Replaceable

### TIMING GEAR AND GOVERNOR

Governor .....	Flyweight (Wts. on timing gear)
----------------	------------------------------------

### WATER PUMP AND COOLING SYSTEM

Water Pump .....	Centrifugal Type
Water Pump Drive .....	"V" Belt
Thermostat Position .....	Outlet Elbow
Upper Hose .....	3 ply (3¼" long) (1¾" I.D.) (2½" O.D.)
Drain Elbow Hose .....	3 ply (2" long) (1¾" I.D.) (2½" O.D.)
Fan — Pull Type .....	16" — 4 blade
Radiator .....	Pressurized 4 lb. pressure cap

### LUBRICATING SYSTEM

Oil Pump .....	Gear Type—Floating Intake Screen
Oil Filter .....	Replaceable Cartridge
Oil Pressure .....	14-20 lbs. @ 1900 R.P.M.

### PISTONS AND SLEEVES

Cylinders .....	4
Type Cylinder .....	Dry Sleeve
Bore .....	3 9/16"
Stroke .....	4½"
Piston Displacement .....	164 Cu. In.
Pistons .....	Aluminum Alloy
Piston Rings .....	3 compression; 1 oil

### FUEL SYSTEM

Carburetor .....	Updraft
Air Cleaner .....	Oil Bath

### ELECTRICAL AND IGNITION SYSTEM

Ignition Switch .....	Includes Key Starting
Battery (Dry charge type) .....	12V, 50 Amp. Hr. Positive Post Grounded
Spark Plugs .....	Gasoline Champion No. D16 LPG Champion No. D14 (or equivalent) Thread 18-M/M; Gap .025"
Distributor (Std.) .....	Automatic Advance 26° Point Gap .020"
Magneto (Optional) Case No. 41 .....	Mag. Advance 25° Point Gap .008" - .012"
Generator .....	3 brush type W/Voltage Regulator 3rd brush not adjustable
Starting Motor .....	W/sealed Starter Drive
Head Lights .....	12V, Sealed Beam Units
Rear Lights .....	12V, Combination Tail & Flood W/electrical Outlet for Safety Light Attachment
Fuse .....	20 Amp. in Light Circuit

### ENGINE SPEED

	No Load	Full Load
350 Tractors .....	2050	1900
500B Tractors .....	2125	2000
600B Tractors .....	2400	2250
Engine Idle Speed .....	500 RPM	
(Engine must be reduced to 1750 RPM for all Power Take-Off Operations)		

### CLUTCH (Foot)

350-510B (Std.) .....	11" Single Disc, Spring Loaded Organic Type Lining
351-511B .....	10" Single Disc, Spring Loaded Organic Type Lining
350-510B (Extra Equip.) .....	11" Single Disc Spring Loaded W/Feramic Lining
600B .....	(See Case-O-Matic Section)

### APPROXIMATE CAPACITIES (Engine)

	U.S.	Imperial
Cooling System .....	(Qts.) 13	10.02
Engine Crankcase .....	(Qts.) 4	3.34
(With Filter) .....	(Qts.) 5	4.18
Air Cleaner Oil Cup .....	(Pts.) 1	0.83
Hydraulic System (Torque Tube)		
350 .....	(Qts.) 12	10.02
500B .....	(Qts.) 12	10.02
600B .....	(Qts.) 16	13.3
Fuel Tank (350) .....	(Gals.) 13	10.86
Fuel Tank (500B,600B) .....	(Gals.) 13.8	11.4