350, 500B, 600B Series Tractors

Service Manual

9-92281

Reprinted



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

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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 priviledged 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

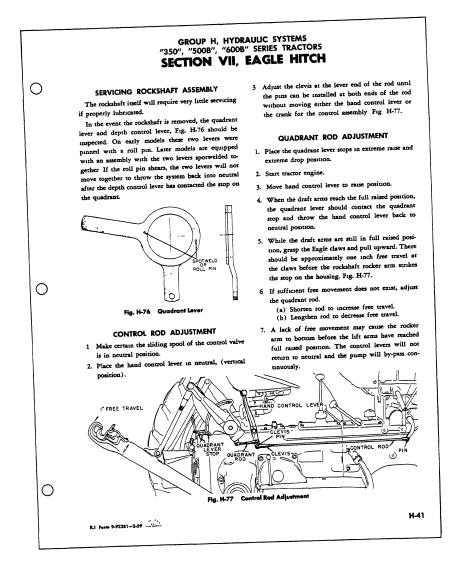
This manual is divided into sections, with each section made up as an individual book. Each section or book is punched and can be combined into a complete manual with the cover and screw posts furnished or can be put in a standard ring book binder for convenient removal of individual sections as required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



"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. 5 qts.	SAE 30 SAE 30	SAE 20-W SAE 20-W	SAE 10-W SAE 10-W	SAE 5-W SAE 5-W
Air Cleaner Cup	l pt.	SAE 30	SAE 20-W	SAE 10-W	SAE 5-W
Transmission and Differential Case	11 gal.	Multi-Purj SAE 90	oose Type Lubric SAE 90	ant (E.P.) 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	oir 1 qt. Automatic Transmission Fluid, Type "A"				

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

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:

- 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).
- 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	Use No. 1 Pressure Gun Grease	
Steering Gear Housing	Use SAE No. 140 Extreme Pressure Lubricant	

^{**}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.

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