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220
Baler

Service Manual

9-64161

Reprinted

CASE

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GENERAL SPECIFICATIONS

DRIVE OPTION

POWER TAKE-OFF	
Clutch	Built-in Overrunning
Safety Slip Clutch	Spring Loaded Disc
Operating Speed	540 RPM (Under Load)
ENGINE	
Make	Wisconsin THD
Type	4 Cycle, Air-Cooled
No. of Cylinders	2
Spark Plug Size	18 MM
Governed Engine Speed	
No Load	2950 RPM
Full Load	2800 RPM
Bore and Stroke	3-1/4 x 3-1/4 Inches
Air-Cleaner	Oil Bath-With-Dry Type Pre-Filter
Engine Crankcase (Capacity)	3-1/2 Quarts
Fuel Tank (Capacity)	9-1/4 Gallons
Standard Equipment	Rotating Air Intake Screen High Temperature Safety Switch Electric Starter

BALER

DRAWBAR	
Type	Swinging
2-Positions	Operating and Transport
PICKUP	
Type	Drum
Pickup Fingers	24 Individually Mounted
Height Control	Manually Adjusted
Mounting	Floating Type Spring Mounted
Drive	Power Driven-with Overrunning Shear Bolt Safety Clutch
Effective Operating Width	56 Inches

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LUBRICATION

A thorough lubrication of the 220 Baler will provide your customers with a smooth running machine. Check all New Balers for paint-clogged grease fitting. Oil pivot points, linkages and other moving parts.

Use the Lubrication Chart below -- and succeeding illustrations -- as a guide.

LUBRICATION CHART

ENGINE DRIVE				See Figure
Crankcase (3-1/2 Quart Capacity)	Check Level Every 10 Hours Drain and Refill Every 60 Hours			
Air Cleaner	Check Daily -- Twice Daily In Dusty Conditions -- When Dirty Fill To "Full" Level With Same Oil As Used In Crankcase.			21
Pre-Filter	EMPTY When Dust Level Is Reached			
Gear Cover Breather	Keep Opening Clean			
POWER TAKE-OFF	**LUBRICATION POINTS**	**LUBRICANT**	**LUBRICATION INTERVAL**	
Universal Joint, Tractor	1	Grease	Weekly	22
Universal Joint, Baler	1	Grease	Weekly	
Telescoping Shaft	1	Grease	Daily	
Overrunning Clutch	2	Oil Lightly	Weekly	
BALER Engine Drive or Power Take-Off	**LUBRICATION POINTS**	**LUBRICANT**	**LUBRICATION INTERVALS**	
Gear Box (3 Quart Capacity)	1	SAE 90 E. P. Hypoid Gear Lubricant	Check Weekly -- Keep Filled to Level Plug	23
Plunger Pitman	2	Grease	Daily	
Feeder Arm	2	Grease	Daily	
Pickup Overrunning Clutch	2	Oil Lightly	Weekly	24
Wheel Hub (Clean and Repack)	Both Wheels	Good Grade of Bearing Grease	Seasonally	25
R. H. Pickup Shaft	1	Grease	Daily	
Knotters, Back of	10	Grease	Daily	26
Knotters, Front of	2	Grease	Daily	27
Knotter Clutch	1	Grease	Daily	
Bale Tension Adjusting Screws	2	Oil Lightly	Weekly	28

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PLUNGER AND STATIONARY KNIVES

On the Plunger's compression stroke the Slicing and Stationary Knives cut the hay at the Bale Chamber Opening. Keeping the Knives sharp aid in avoiding ragged bales and excessive breakage of the Flywheel Shear Bolt. The frequency the Knives must be sharpened depends on the crop being baled and the presence of dirt, sand, rocks and other foreign material in the hay. Under normal conditions the cutting edges of the Knives should be examined AT LEAST ONCE A DAY.

To sharpen the Knives, of course, they must be removed from the machine. See below. Be certain the original taper of the cutting edge is maintained. DO NOT remove any material from the flat side of the Knives.

KNIFE REMOVAL

Removal of the Plunger IS NOT necessary for removal of the knives. To remove the Knives proceed as follows:

STATIONARY KNIFE

Remove the three cap screws and nuts holding the knife. The nuts, shown in Figure 39, are reached from outside the Bale Case. To gain access to the lower nut the cover must be removed.

SLICING KNIFE--ON PLUNGER

Turn the Flywheel by hand until the Slicing Knife is over the Feed Opening. See Figure 38. Reach in through the access cover over the Feed Opening, see Figure 39, and remove the three cap screws holding the Knife. Remove the Cross Bolts, See Figure 38, and slide the Knife out the rear of the knife guide.



Figure 39. Feed Opening and Knife Removal

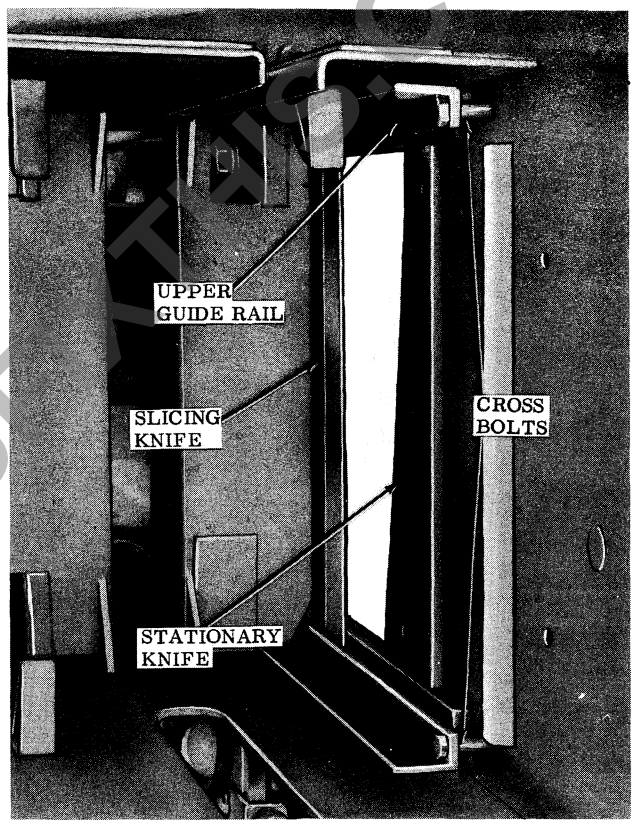


Figure 38. Slicing and Stationary Knives

IMPORTANT

After the Knives are replaced or reinstalled, adjust the Knife Clearance, see page 38; NEXT adjust the Plunger Guide Rails and Rollers.

NOTE The Upper Plunger Guide, See Figure 38, can be removed ONLY after the Plunger Knife is removed. Remove the two cap screws and slide the Plunger Guide back until it can be lifted out the Feed Opening.

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16	Crank Wheel Reinforcement	1
17	Belt Shield Assembly	1
18	Bag of Hardware Includes	
	Belt Guide	2
	Tightener Lock Strap	1
	Tightener Stop	1
	Clip -- Fuel Line, Tank End	3
	Clip -- Fuel Line, Engine End	1
	Clip -- Starter Cable	3
	3/8 x 2-1/2" Square Key	1
	Spacer	2
	Union	1
	90° Elbow	2
	Reducing Bushing	1

ENGINE INSTALLATION

For illustrative purposes many of the following photos are shown with the shields removed.

1. With the hardware found on the baler install the two motor mounts. See Figure 12.

2. To obtain the necessary clearance position the four 1/2 x 1-1/2" hex. bolts in the motor mounts prior to installing the engine. See Figure 12.

3. Position the engine on top of the motor mounts. Secure four 1/2" lockwashers and nuts. See Figure 12.

NOTE

The holes in the motor mount are slotted to reposition the engine for additional belt tension after the belts stretch. When installing the engine position it all the way to the left.

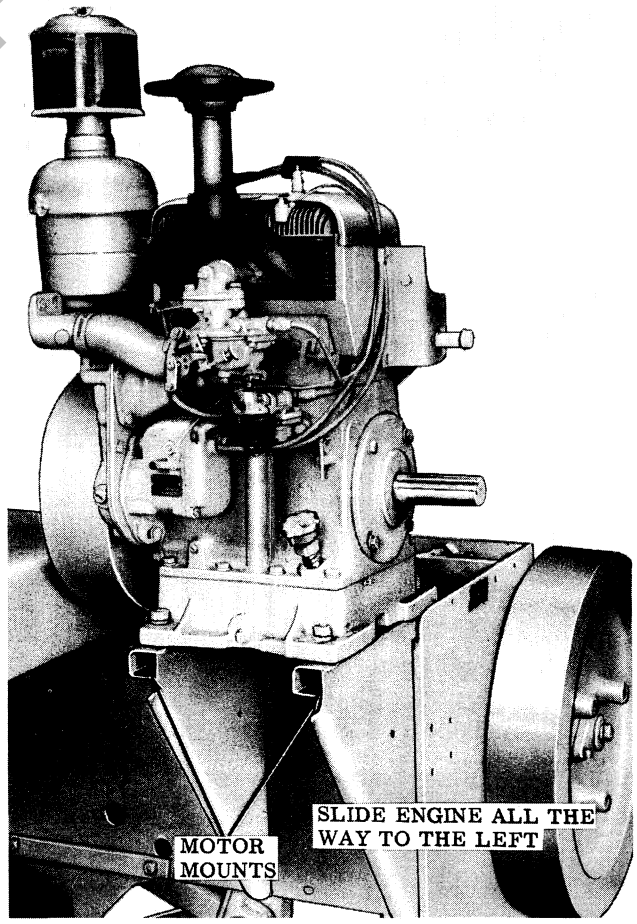


Figure 12. Motor Mounts and Engine

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SERVICE SUGGESTIONS

PROBLEM	POSSIBLE CAUSES	CORRECTION
Excessive Shearing of Flywheel Bolt	Feeding Too Fast - Irregular Feeding of Heavy Slugs	Slow Down So Feeding Rate is Not Less Than 12 Strokes Per 36" Bale - Feed Uniformly
	Making Too Heavy Bales	Loosen Bale Tension
	Shear Bolt Nuts Loose	Tighten Nuts Securely. Always Use a Lock Nut.
	Needles Not Timed Properly	Time Tying Mechanism, Pages 61-65.
	Needle Safety Latch Not Adjusted Properly	Adjust Safety Latch, Page 66.
	Extremely Dull Knives	Sharpen or Replace Knives, Page 32.
	Excessive Clearance Between Knives	Adjust Plunger-Knife Clearance, Pages 38, 39.
	Improperly Adjusted or Worn Needle Brake	Apply More Tension or Replace Linings Page 65.
Failure to Pickup Entire Windrow	Pickup Too High From Ground	Adjust Height, Page 45.
	Pickup Fingers Bent or Broken	Straighten or Replace Fingers
	Ground Speed Too Fast	Shift to Different Tractor Gear to Reduce Rate of Forward Travel
Mis-shaped Bales - Too Much Material in Left Side of Bale	Feed Head Enters Bale Chamber Too Far	See Uniformity of Bales, page 73.
	Irregular Feeding of Heavy Slug	Feed More Uniformly
Mis-shaped Bales Too Much Material in Right Side of Bale	Feeder Head Does Not Enter Bale Chamber Far Enough	See Uniformity of Bales, page 73.
	Over - Feeding	Feed Slower
	Windrows Too Large or Small	Make Uniform Medium Sized Windrows
Ragged Bales	Dull Knives	Sharpen Knives, Page 32.
	Improper Knife Clearance	Adjust Plunger-Knife Clearance Pages 38, 39.
Needle Breakage	Safety Latch Not Adjusted Properly	Adjust Safety Latch. Check Needle Pitman Arm Shear Bolt - Replace if Necessary
	Needles Not Timed Properly	Time Tying Mechanism. Pages 61-65.
	Needle Slot Plugged	Foreign Object Lodged in Plunger Needle Slot. Remove Obstruction. Check Plunger Knife and Tying Mechanism for any Damage.
	Improper Needle Setting	Needles Loose or Not Adjusted Correctly
	Foreign Object Fed into Chamber With Material	Remove Object. Check Plunger, Knife and Tying Mechanism for any Damage.
	Clutch Dog Spring Weak or Broken	Replace Part, Figure 88
	Worn Clutch Stop or Clutch Dog Roller	Replace Part, Figure 88.

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INTRODUCTION

The intentions of this Service Manual is to provide you with the basic knowledge necessary for proper Set-Up, Pre-Delivery and Service of the Model 220 Baler. As an Authorized CASE Dealer, your staff must be qualified to render these basic functions.

Instruct the personnel of your organization to read and discuss this manual thoroughly -- it is to your advantage.

SERIAL NUMBERS

To receive prompt service and reduce chances for misunderstanding, always obtain the model and serial number of units requiring replacement parts.

The Serial Number for the Model 220 Baler is located at the front of the bale case. See Figure 3.

The Serial Number for the Wisconsin Model THD Engine is stamped on the number plate. See Figure 4.

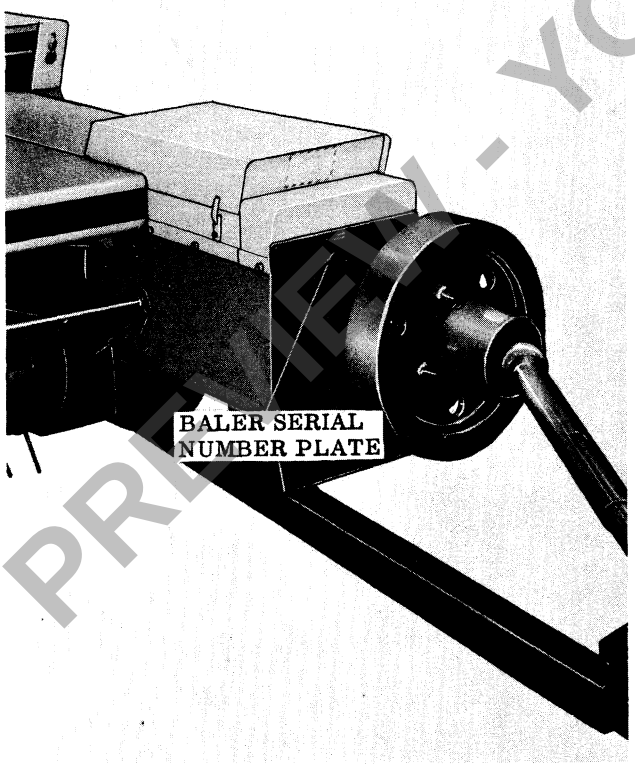


Figure 3. Baler Serial Number

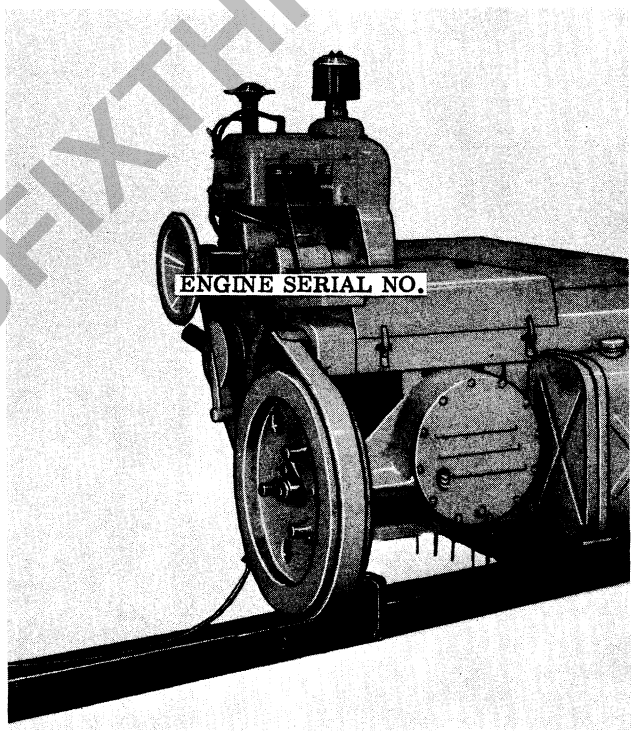


Figure 4. Engine Serial Number

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