

OPERATOR'S MANUAL

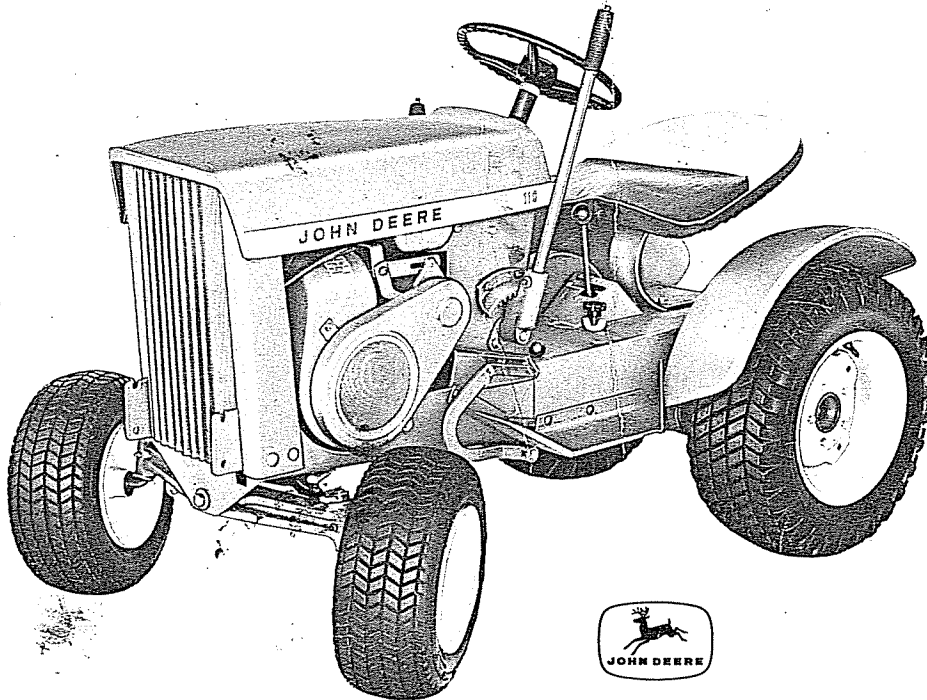
OM-M40832

JOHN DEERE

110 SERIES

LAWN AND GARDEN TRACTOR

Serial No. (15001-)



INTRODUCTION

For more than 125 years, John Deere has been a pioneer in the design and manufacture of quality farm equipment. Your 110 Lawn and Garden Tractor not only embodies the experience gained through the years but has with it the sincere interest and backing of this organization.

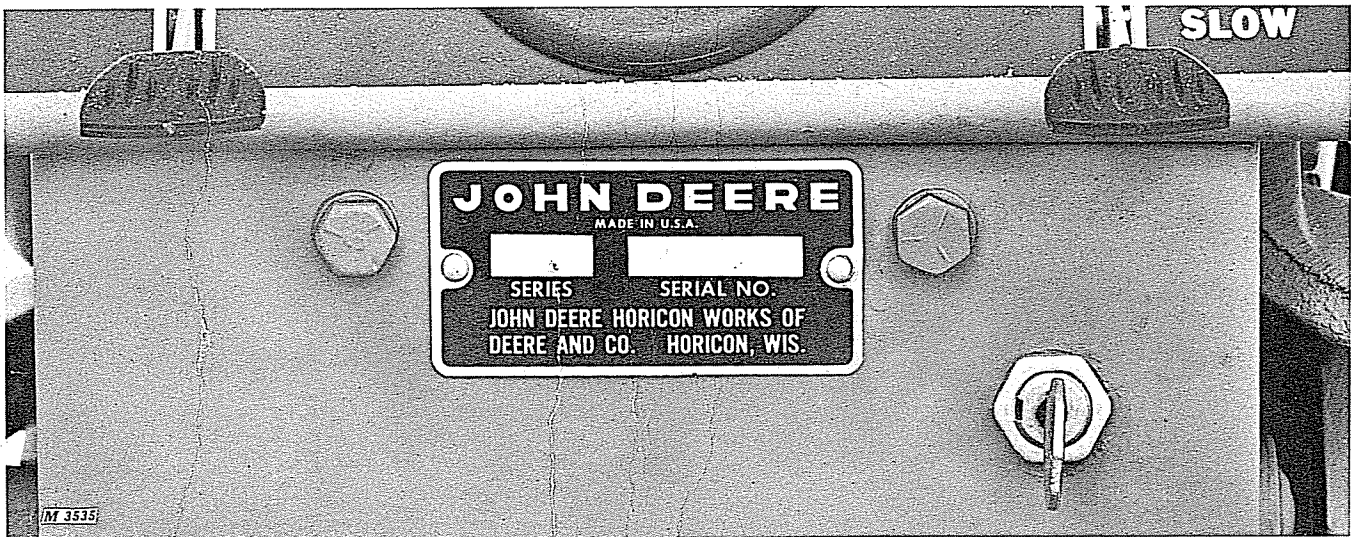
The 110 Lawn and Garden Tractor is manufactured to the traditionally high standards of John Deere. It has many quality features which have been designed with you, the customer, in mind.

Your dealer also is sincerely interested in your new tractor and has the desire to help you get the most value from it. After reading this

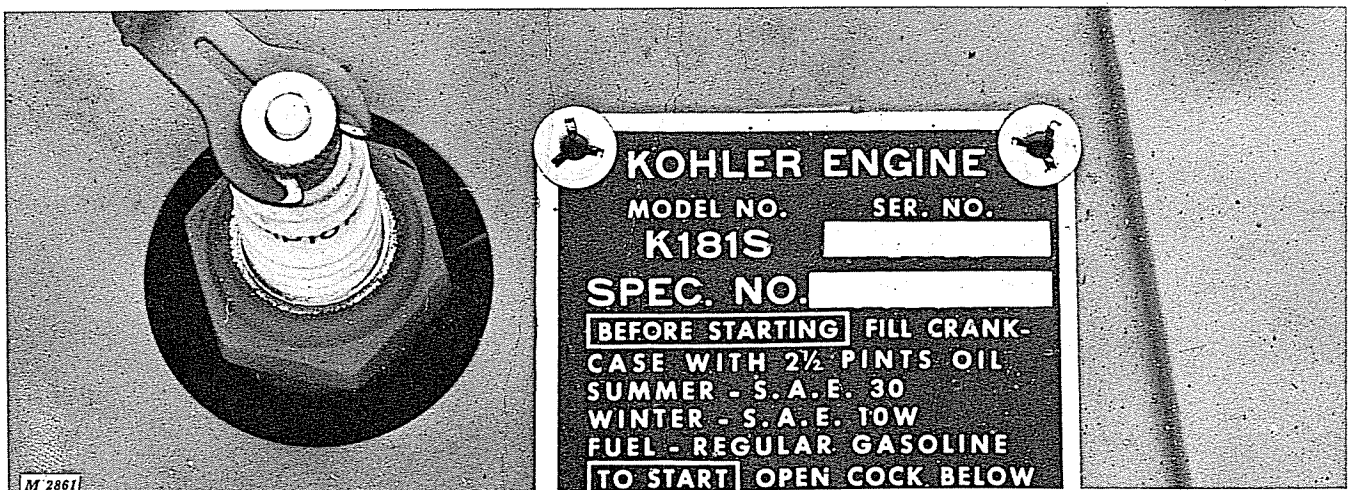
manual thoroughly, you will find that you can do many of the regular service jobs quickly and easily. However, when in need of parts or major service, be sure to see your dealer.

Your Dealer Warranty was presented to you when delivery was made. Keep the warranty in a safe place where it will not be lost or destroyed.

When in need of parts, be prepared to give your dealer both the tractor and engine serial numbers. Locate the serial numbers now and record them on the serial number plates shown below.



Record Tractor Model and Serial Number



Record Engine Model and Serial Number

Price \$2.10

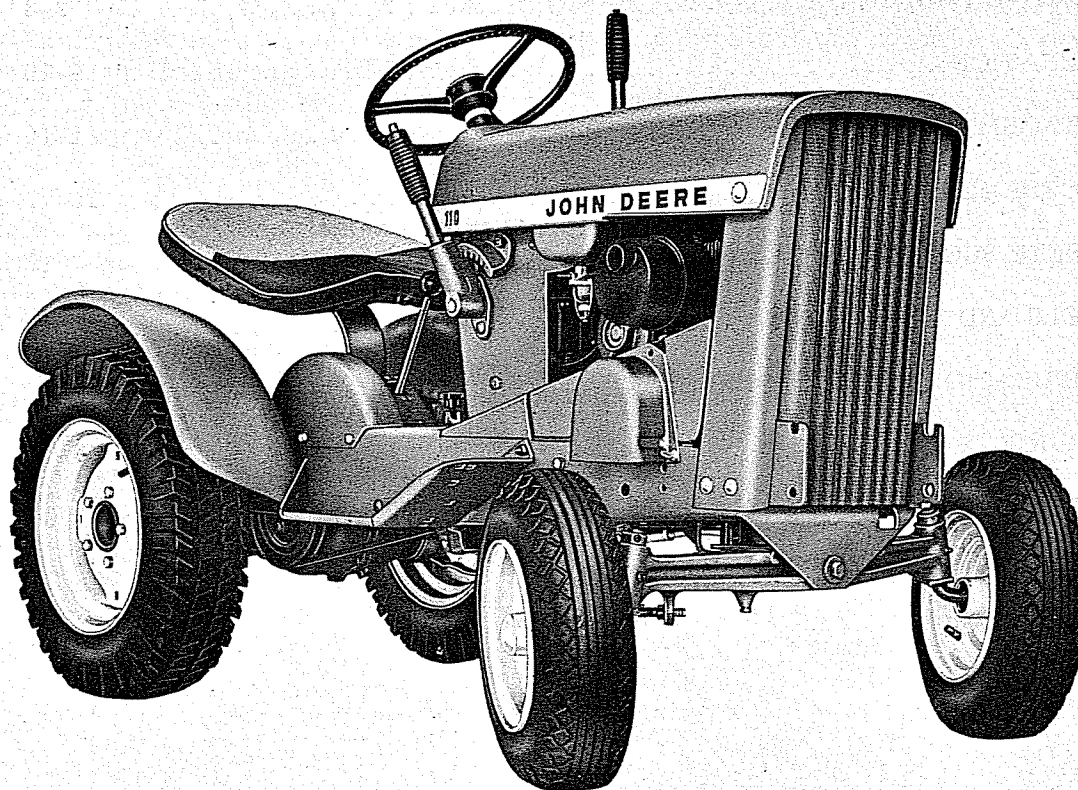


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SPECIFICATIONS



M 3497

John Deere 110 Lawn and Garden Tractor With All Purpose Tires

ENGINE

Manufacturer Kohler
 Model K181S
 Cylinders One
 Cycle 4
 Bore and Stroke 2.94 x 2.75 in.
 Displacement 18.63 cu. in.
 Speeds 1800-3800 rpm
 Horsepower 8 @3600 rpm
 Compression Ratio 6.8 to 1
 Normal Compression 110-120 psi
 Valve Clearance (intake) cold007 in.
 Valve Clearance (exhaust) cold016 in.

CAPACITIES

Fuel Tank 1.9 U.S. Gallons
 Crankcase 2-1/2 U.S. Pints
 Transmission 3 U.S. Pints
 Type of Transmission
 Lubricant AM30200M Lubricant

GROUND SPEEDS

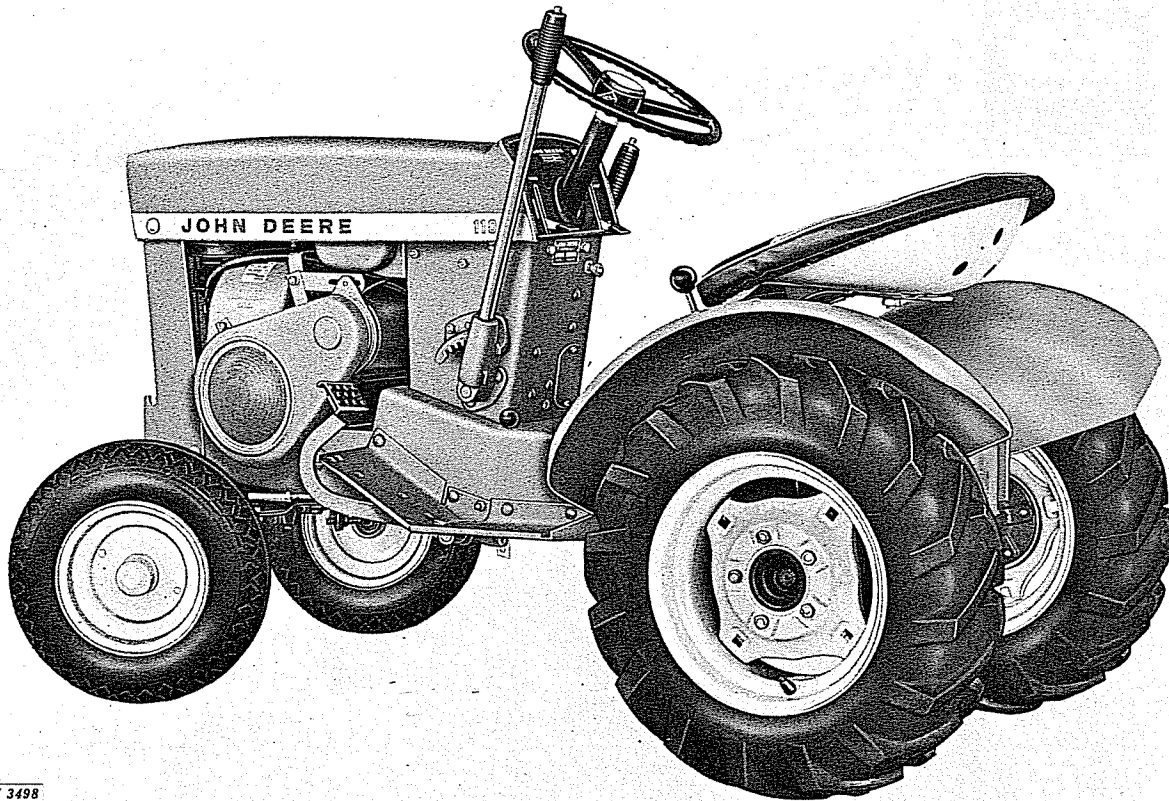
1st Gear Variable .37 to .84
 2nd Gear Variable 1.1 to 2.5
 3rd Gear Variable 2.1 to 4.4
 4th Gear Variable 3.0 to 6.5
 Reverse Variable 1.6 to 2.9

TRANSMISSION

Type Transaxle
 Gear Selections 4 forward—1 reverse

ELECTRICAL SYSTEM

Battery Prestolite 7 LU 24 Amp.hr.—12 Volt
 Starter Switch Ignition Key & Solenoid
 Voltage Regulator Delco-Remy
 Motor-Generator Delco-Remy
 Spark Plug Gap025 in.
 Breaker Point Gap020 in.



M 3498

John Deere 110 Lawn and Garden Tractor with Traction Tires

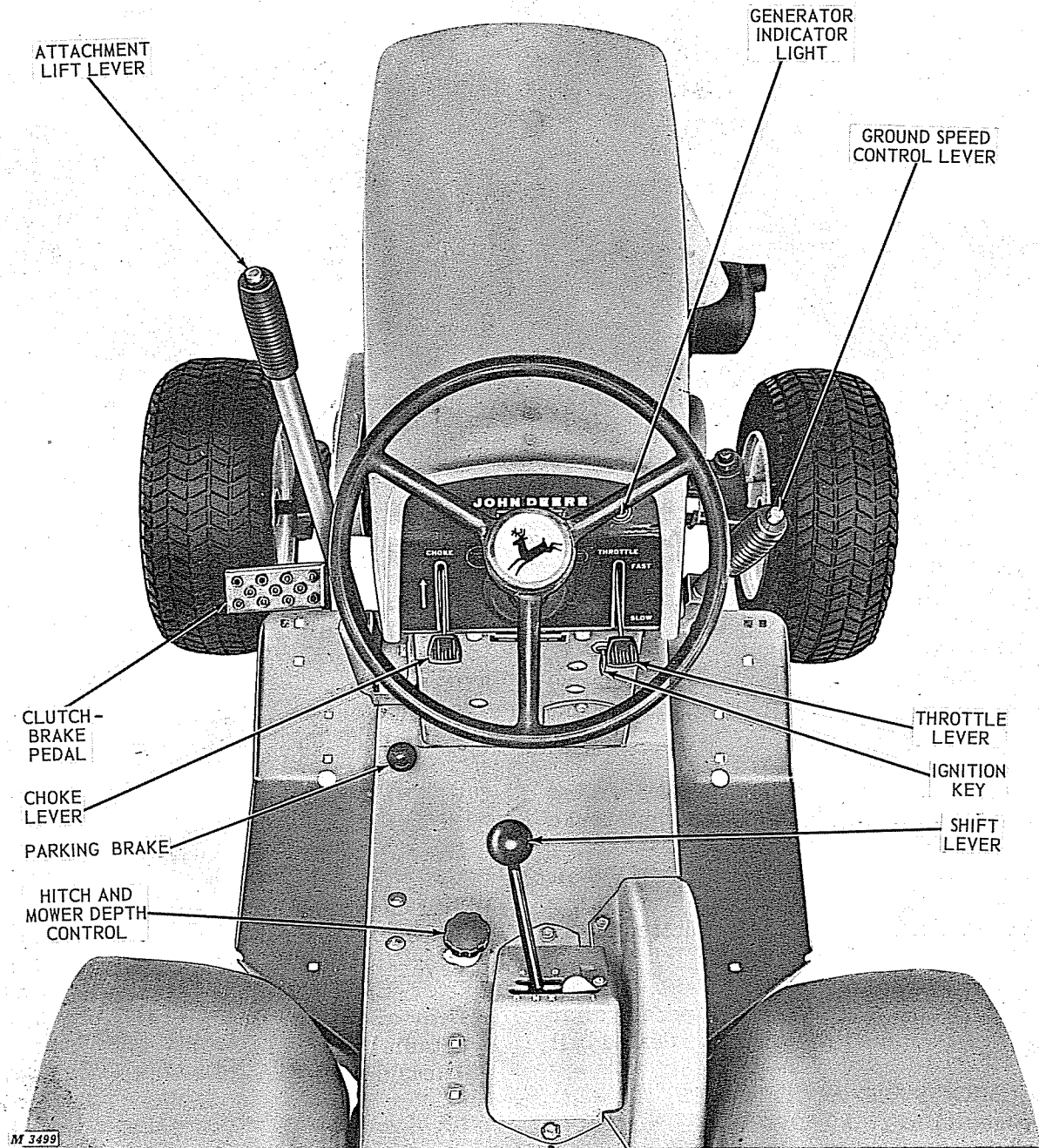
AIR CLEANER		All Purpose and Traction Tires	High Flotation Tires
Type	Dry filter		
FUEL SYSTEM			
Type of Fuel	Regular gasoline		
Filter	Sediment bowl		
BRAKES			
Type	Double acting, pedal operated		
Parking	Hand lock to foot brake		
CLUTCH	V-Belt		
STEERING	Enclosed gear		
WHEEL BEARINGS			
Front	Tapered roller		
Rear	Sealed ball		
ATTACHMENTS AND ACCESSORIES			
See pages 11 to 17			
	WHEEL TREAD		
	Front	29 in.	30 in.
	Rear	27 or 33 in.	27 or 33 in.
	TIRE SIZES		
	Front	4.80/4.00-8	16 x 6.50-8
	Rear	6-12	8-12
	TIRE INFLATION		
	Front	12 psi	8 psi
	Rear	6 psi	5 psi
	DIMENSIONS		
	Wheel Base	44 in.	44 in.
	Over-all Length	63 in.	63 in.
	Over-all Height	38-3/4 in.	38-3/4 in.
	Over-all Width (min.)	34 in.	34 in.
	Turns outside	30-1/2 in. radius	28-1/2 in. radius
	SHIPPING WEIGHT	595 lbs.	612 lbs.

(Specifications and design subject to change without notice.)



OPERATION

CONTROLS



OPERATING THE ENGINE

BREAK-IN AND GET-ACQUAINTED PERIOD

Your new tractor should be subjected to a break-in period before it is operated at full load. Drive the tractor for several hours to get the feel of its operation. Actuate the ground speed control lever through its full range during the get-acquainted period. Do not lower or operate any attachments.

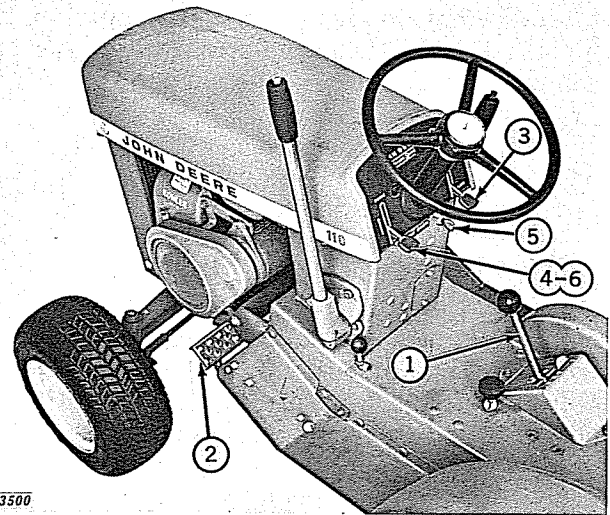
No special break-in oil is required. However, be sure to change oil in engine crankcase after first 5 hours of operation as instructed on page 20.

NOTE: Check and tighten motor-generator belt tension after first short period of tractor break-in. See page 31.

PRE-STARTING INSPECTION

Before starting the engine each day, perform the following checks and services:

1. Check fuel supply. Use regular gasoline only. See page 18.
2. Be sure oil in engine crankcase is at the proper level. Add oil as needed to maintain indicated level. See page 19.
3. Be sure screen covering engine flywheel is clean. A screen filled with grass clippings or dirt will cause engine to overheat. See page 19.
4. Be sure air cleaner is free of obstructions and excessive dirt. Clean as instructed on page 20.



M 3500

STARTING THE ENGINE

1. Place shift lever in neutral (N) position and disengage mower drive if tractor is so equipped.
2. Depress clutch-brake pedal and apply braking pressure.
3. Advance throttle lever to approximately 1/4 open position.
4. Raise choke lever if necessary. Experience will soon tell you when choking is necessary. Generally, a cold engine will require a slight choke. Starting in extremely cold weather requires more choke.
5. Turn ignition key to the right as far as possible to start engine. If engine does not start after 3 or 4 attempts, refer to "trouble shooting," pages 33 and 34 in this manual.
6. Lower choke lever when engine starts and runs. *NOTE: For extremely cold weather, it may be necessary to leave choke 1/3 or 1/4 open until engine warms up. Always allow engine to warm up before applying load.*

STOPPING THE ENGINE

1. Before stopping the engine, remove load and allow engine to idle for a few minutes before turning it off. Sudden stopping of a hot engine can cause damage to engine parts.

2. Move ground speed control lever to rear (slow speed) position or depress clutch-brake pedal and lock parking brake.

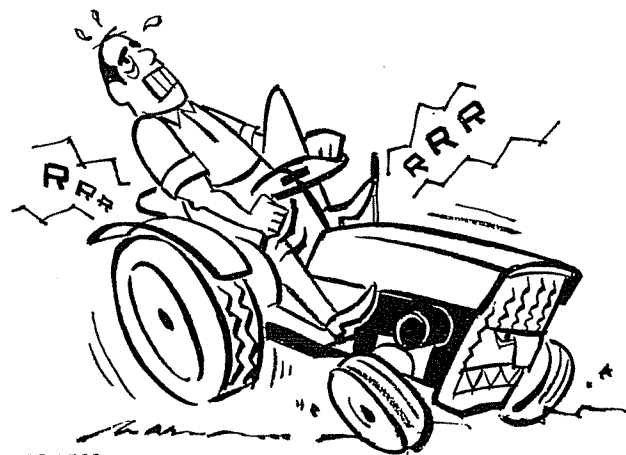
3. Turn ignition key all the way to the left to stop engine. **CAUTION: Be sure key is turned completely off (vertical position) before leaving tractor. Engine will stop when key is turned only slightly to the left. But if it is left in this position the battery can become discharged.**

4. **REMOVE KEY.** This is important. Develop the habit of removing the key each time you leave the tractor.

OPERATING THE TRACTOR

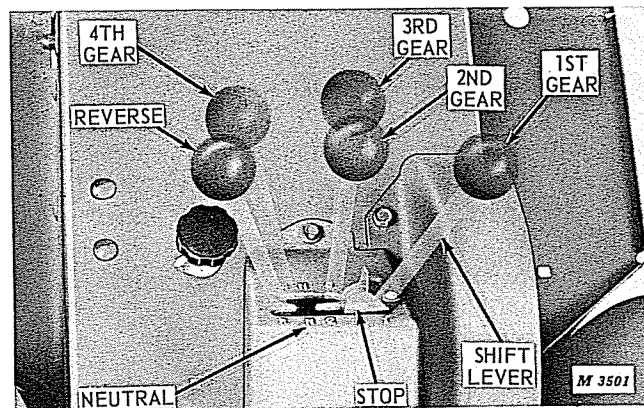
Proper ground speed will depend on (1) the type of attachment used on the tractor and (2) field, garden or yard conditions.

When using engine driven attachments select the transmission gear that will give a safe ground speed when the engine is operating at full throttle.



Do not "grind" transmission gears.

Stop tractor before changing gears. Shift gears with strong, steady motion to slide gears firmly into mesh.



The tractor has 4 forward gears and 1 reverse gear. Depress clutch pedal, release parking brake and position shift lever in desired gear. **IMPORTANT: Tractor must be completely stopped before shifting gears. The combination clutch-brake pedal makes this easy. When shifting gears, use strong, steady motion to slide gears firmly into mesh. Never allow gears to "grind" while shifting.**

Leave the stop over first gear for normal operation. However, when unusually heavy loads are encountered with attachments like the integral rotary tiller or snow thrower, lower the stop and shift to first gear to slow ground speed and reduce the load on the engine.

NOTE: Move shift lever forward as far as it will go before shifting into 3rd or 4th gear. Move shift lever back all the way before shifting into reverse, 2nd or 1st gear.

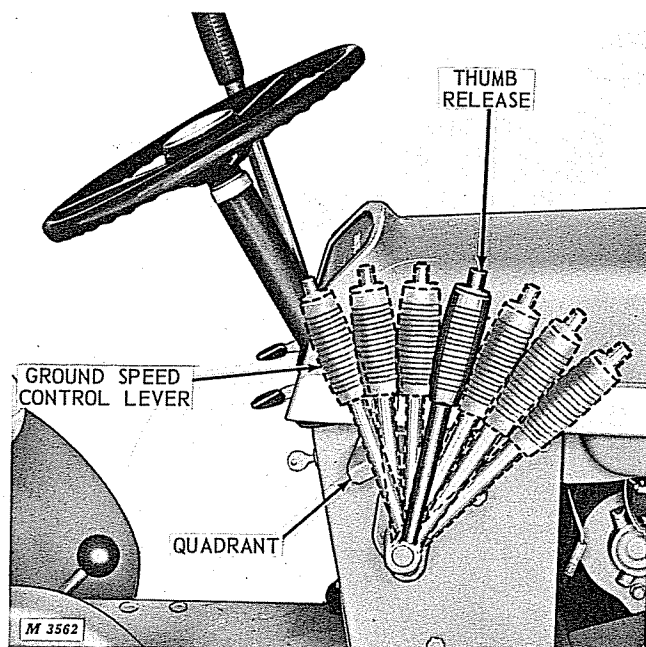
It may be necessary to let clutch out quickly and then depress again which will rotate gears enough to permit easy engagement.

Ground speeds are as follows:

Gear	Variable Ground Speed*
1st	.37 to .84 mph
2nd	1.1 to 2.5 mph
3rd	2.1 to 4.4 mph
4th	3.0 to 6.5 mph
Reverse	1.6 to 2.9 mph

*at 3600 rpm engine speed

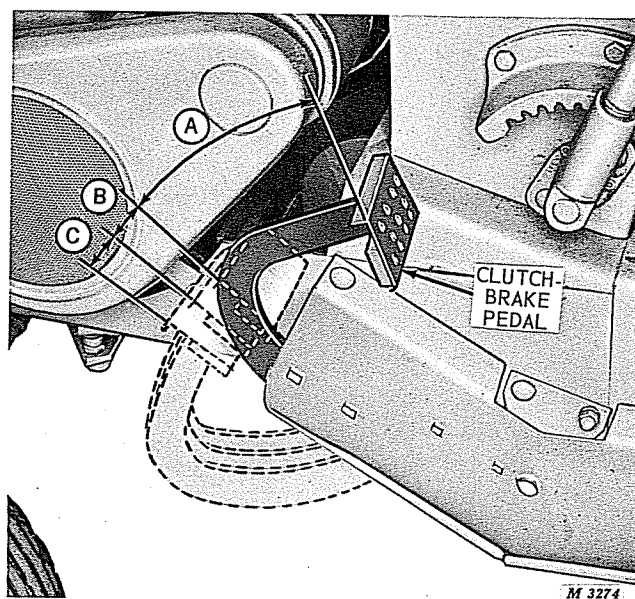
GROUND SPEED CONTROL



The ground speed control lever may be moved through its full range without depressing the clutch or stopping the tractor. Move lever forward to increase ground speed and back to decrease ground speed.

After selecting transmission gear, press thumb release and move ground speed control lever forward until desired speed is attained. This feature is especially valuable when load is not uniform. When engine-driven attachments are overloaded, such as with heavy lawn mowing or deep snow throwing, the ground speed may be reduced with the ground speed control lever to relieve the load while the attachment continues to operate at full speed.

CLUTCH-BRAKE PEDAL



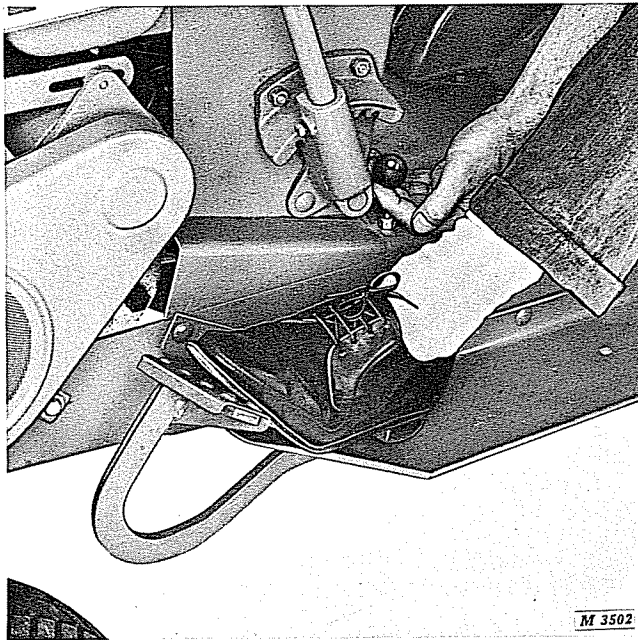
Tractor speed may also be varied with foot action on the clutch-brake pedal. Move the ground speed control lever to the forward position. With engine running and tractor in gear, depress clutch-brake pedal to slowly reduce ground speed. Release clutch-brake pedal to increase speed.

Illustration above shows the range of pedal travel. Depress the clutch-brake pedal through the "A" range to vary tractor speed. "B" is neutral range for gear selection and "C" is the braking position.

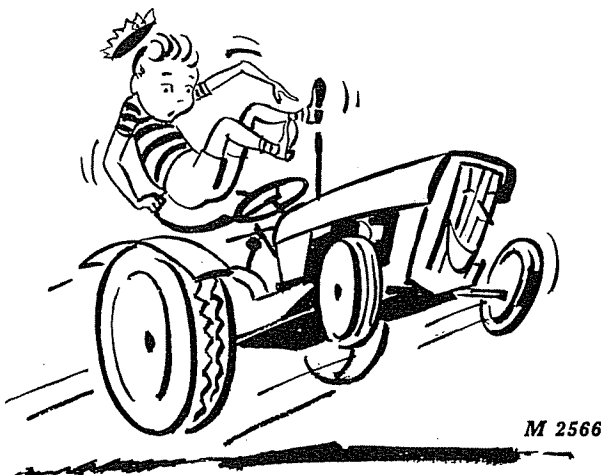
Operate the ground speed control lever and clutch pedal while engine is running.

Since the variable drive is also controlled through this pedal only when the engine is running, be sure the ground speed control lever is back (slow speed position) for quickest braking action on steep hills or similar hazardous situations.

STOPPING THE TRACTOR

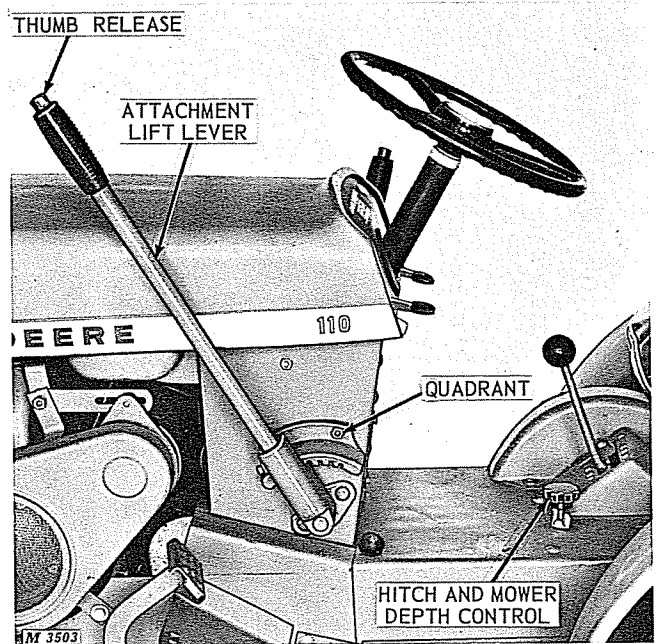


1. Depress clutch-brake pedal all the way down.
2. Shift into neutral and set parking brake by lifting brake knob and moving it forward to lock in raised position.
3. Shut off engine and remove key.

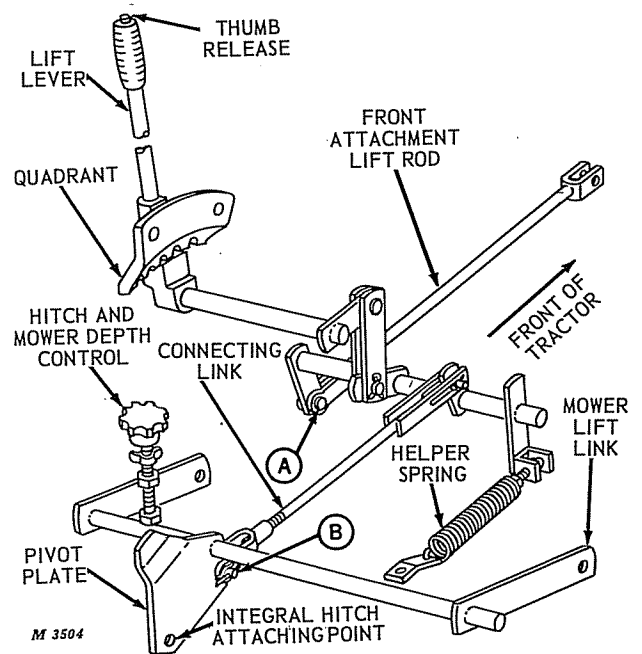


CAUTION: Always remove ignition key before leaving tractor.

ATTACHMENT LIFT LEVER



When the attachment lift lever is in the rear position the attachment is in the raised position. Moving the lever forward lowers the attachment. Press thumb release and move lever until attachment operates at desired height. Removing pressure from thumb release locks operating lever and attachment in desired position. Refer to your attachment operator's manual for specific lever adjustments.



This drawing illustrates the lift lever linkage and the function of all component parts.

HITCH AND MOWER DEPTH CONTROL

Proper adjustment of the hitch and mower depth control will permit rear mounted attachments and the 38 Rotary Mower to return to the adjusted operating level each time the attachment lift lever is lowered. This control also enables the operator to keep the mower or rear mounted attachments in the raised position while using the lift lever to operate front mounted attachments.

First, make all lift adjustments as explained in the mower operator's manual or integral hitch adjustments as explained on this page. Then turn depth control knob downward until you feel it touch the pivot plate. Tighten wing nut.

To keep hitch or mower in raised position, turn depth control down as far as it will go.

Front mounted attachments are not affected by the depth control setting.

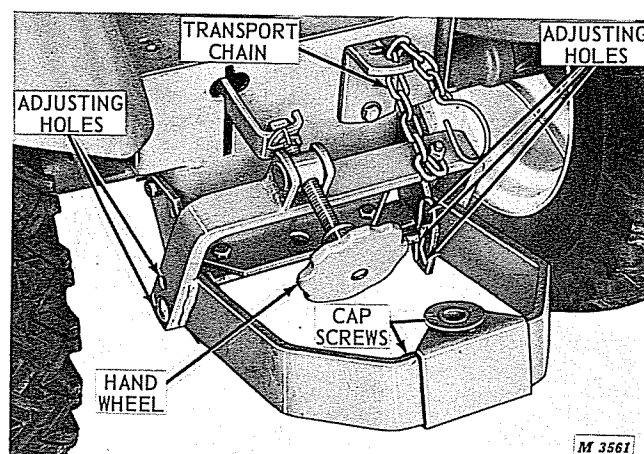
Make fine lift adjustments of front mounted attachments by disconnecting linkage at point "A" and turning threaded clevis either in or out on lift rod. Fine lift adjustments for the rotary mower and rear mounted attachments are made by disconnecting linkage at point "B" and turning threaded clevis on the connecting link.

HELPER SPRING

The helper spring is supplied with front mounted attachments and the integral hitch. When installed as shown on page 8 it decreases the effort required to raise heavy attachments with the attachment lift lever.

The helper spring is not required with the rotary mower.

INTEGRAL HITCH ADJUSTMENTS



The attachment lift lever is also used to raise and lower rear mounted attachments.


Adjust hitch height depending upon the rear tool being used, by positioning hitch into one of six possible positions. Make fine adjustments by turning hand wheel either in or out.

Rear tools are permitted to sway on the hitch by loosening cap screws. Tighten cap screws for rigid mounting.

Position transport chain as shown above when carrying rear mounted tools on the hitch while mowing or performing any other operation requiring the use of the lift lever while desiring to hold rear tools in the raised position.

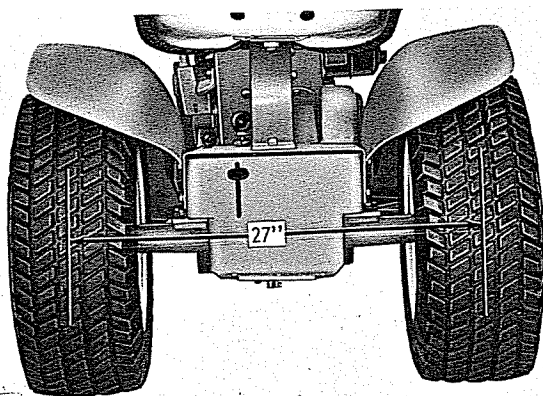
Drawn tools can be attached to the tractor drawbar while some mounted tools are still attached. In this event, keep the hitch in raised position by connecting chain as shown above.

See pages 11 through 14 for illustrations of complete line of rear mounted attachments available from your dealer.

 Be careful when operating tractor with rear mounted attachments so tractor does not upset, especially when working on hillsides. Always back up a steep incline with rear mounted tools.

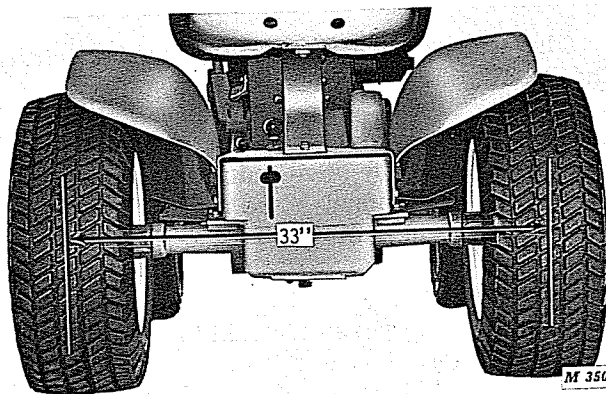
Use tractor front end weights as shown on page 15 when working with any rear mounted tool.

REAR WHEELS



M 3507

27-Inch Tread (Normal Operating Position)



M 3508

33-Inch Tread

Rear wheels are factory assembled in the narrow (27-inch) tread. Wheels can be turned around on the hubs for a wide (33-inch) wheel tread for greater stability especially on hillsides as explained below.

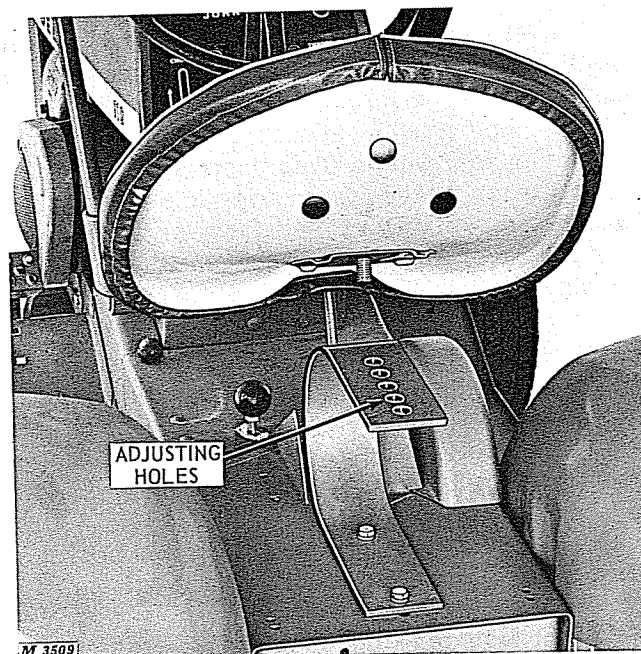
TRACTORS WITH HIGH FLOTATION OR ALL PURPOSE TIRES

Remove wheel bolts; turn wheel around with valve stem inward, and reassemble on hub.

TRACTORS WITH TRACTION TIRES

Remove wheel bolts, turn wheel around with valve stem inward and reassemble each wheel on opposite sides of the tractor. Interchanging right-hand and left-hand rear wheels is required to maintain the proper direction of rotation for traction tires. Tread (and arrow) on tire must point forward in direction of travel.

SEAT ADJUSTMENT



M 3509

Tractor seat may be adjusted into one of five different positions. Remove seat from spring and reassemble in most comfortable position.



CAUTION: When driving the 110 Tractor on a road or highway at night or during the day, use accessory lights and devices for adequate warning to operators of other vehicles. In this regard, check local governmental regulations. Various safety lights and devices are available from your dealer.

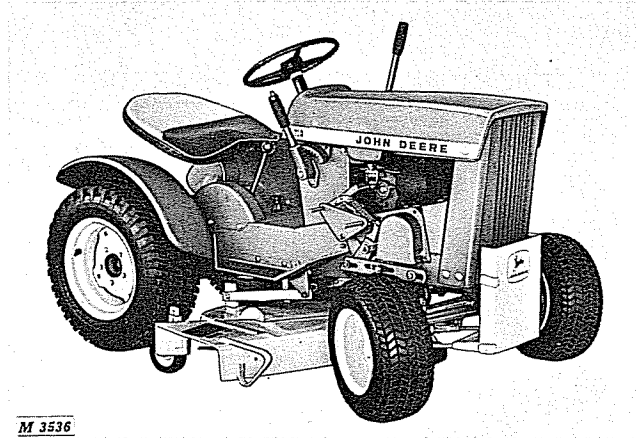




ATTACHMENTS

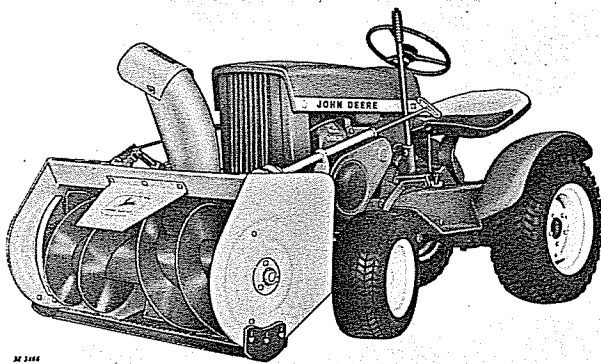
Information about operation and assembly of the attachments shown in this section is not given in this manual. Instead this information is included in a manual furnished with each attachment.

38 ROTARY MOWER



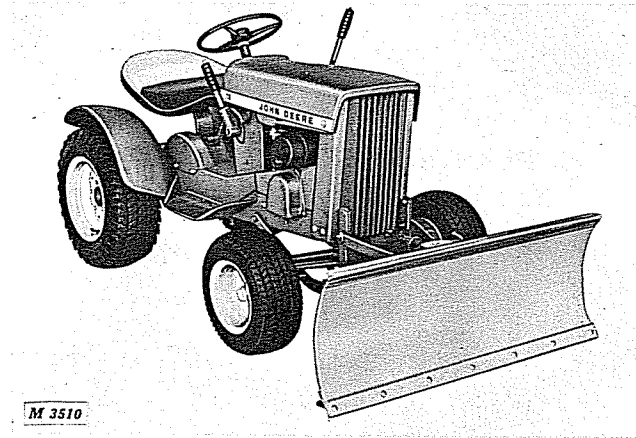
Outstanding features of the John Deere Rotary Mower provide for uniform, constant-level mowing even under adverse ground conditions. Even distribution of mowed grass, without lumping, adjustable cutting depth, and a positive parallel-gram-type control linkage make this mower most desirable. Width of cut is 38 inches.

36 SNOW THROWER



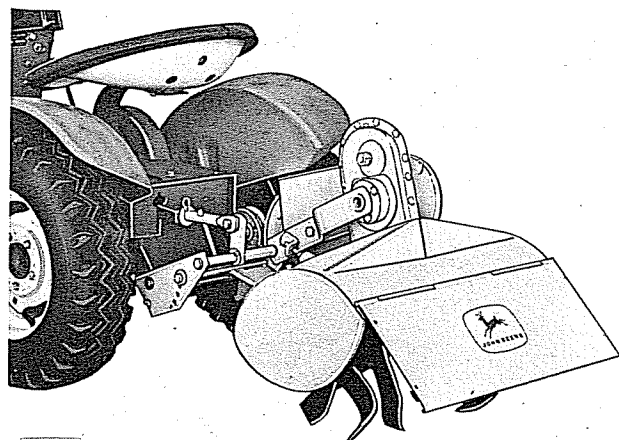
The John Deere 36 Snow Thrower is designed to efficiently handle most all snow clearance work. The working depth of the Thrower and direction of snow discharge is controlled from the operator's seat. Equip your tractor with rear tire chains and tractor cab and your snow removal work will be a pleasure. Snow Thrower width is 36 inches.

42 BLADE

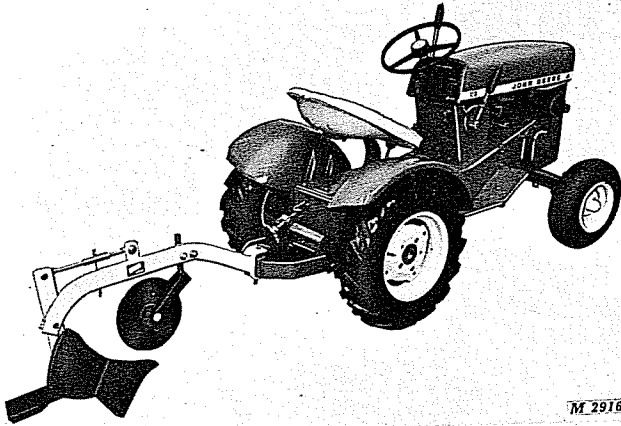


Equipped with this 42 Blade, your John Deere Tractor is capable of many land leveling jobs in the summer as well as snow clearance in the winter. Made of heavy gauge steel, the blade is easily adjusted for angle, and depth of cut. To prevent damage, a trip device releases should the blade strike a solid object. Strong spring action returns the blade to working position. The blade is 42 inches wide.

30 INTEGRAL ROTARY TILLER

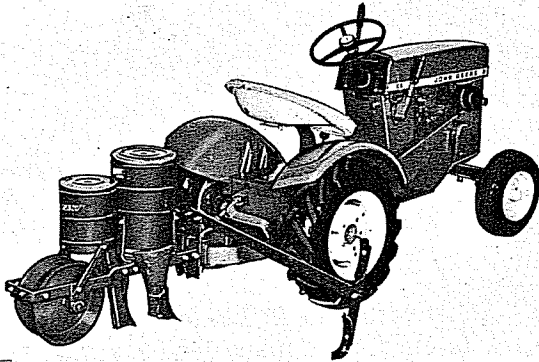


10-INCH MOLDBOARD PLOW



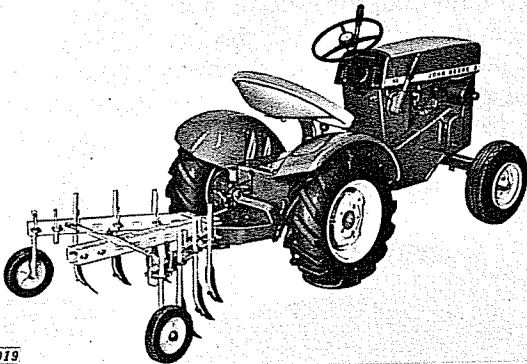
M 2916

PLANTER-FERTILIZER UNIT



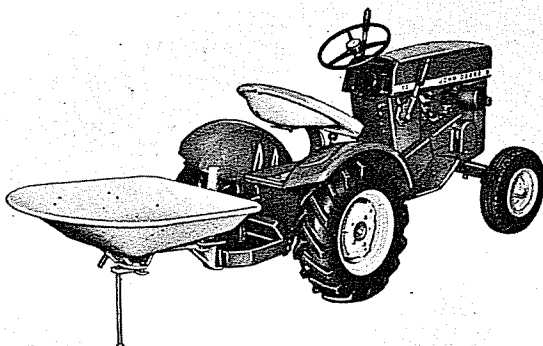
M 2917

ROW-CROP CULTIVATOR



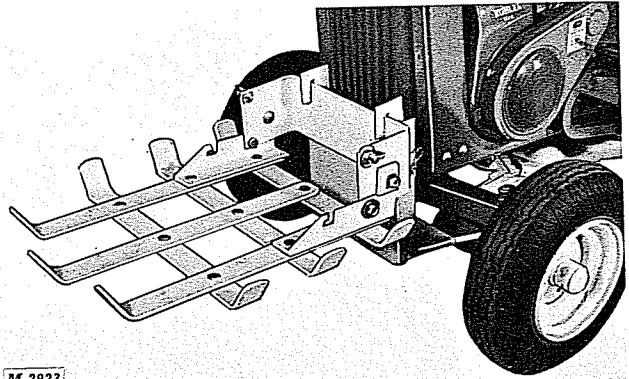
M 2919

MOUNTED DUMPCART



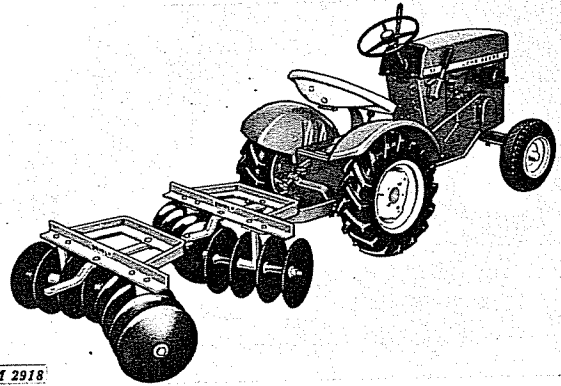
M 2921

GARD-N-CART



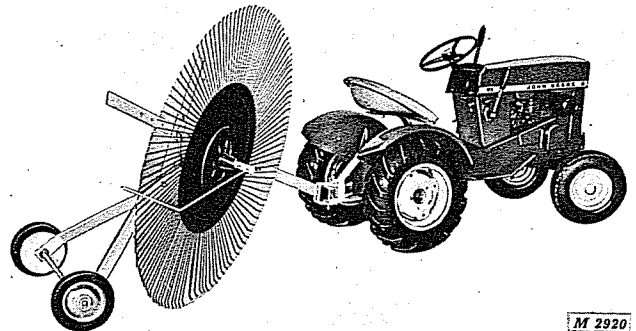
M 2923

FRONT AND REAR DISK HARROW



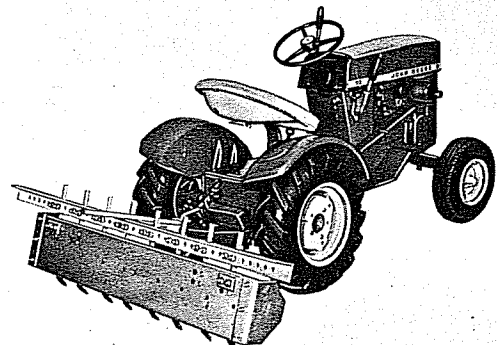
M 2918

ROTARY LEAF AND GRASS RAKE



M 2920

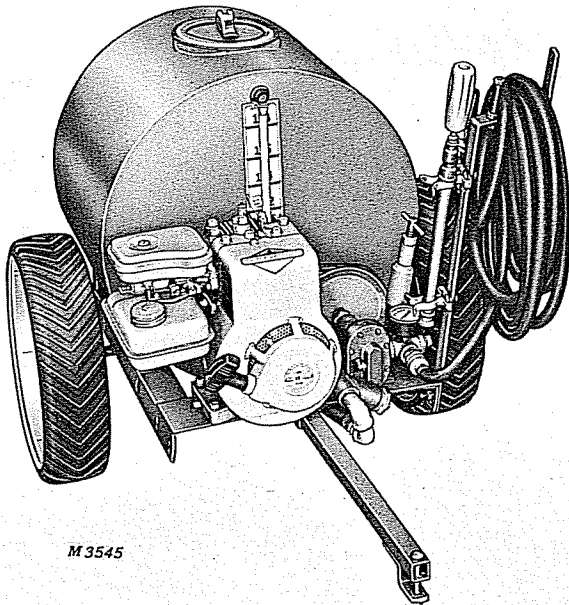
TOOL BAR, SCARIFIER AND SCRAPER BLADE



M 2922

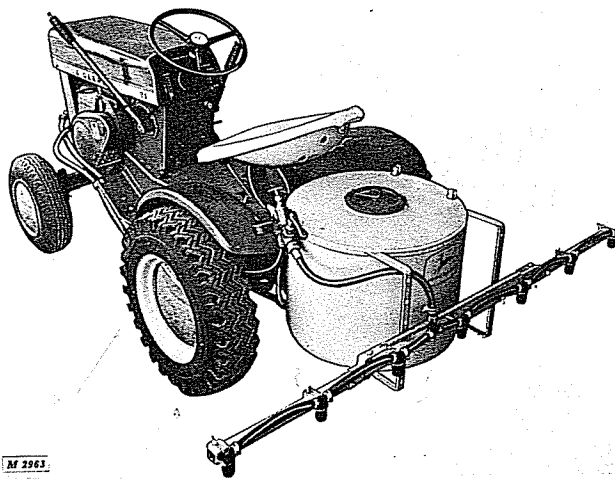
Other attachments for tool bar are: Rake Kit, Pulverizer Packer, 8-Inch Furrow Opener, Sweep Package, Disk Gang Kit, and Spring Tooth Cultivator.

NO. 5 SPRAYER



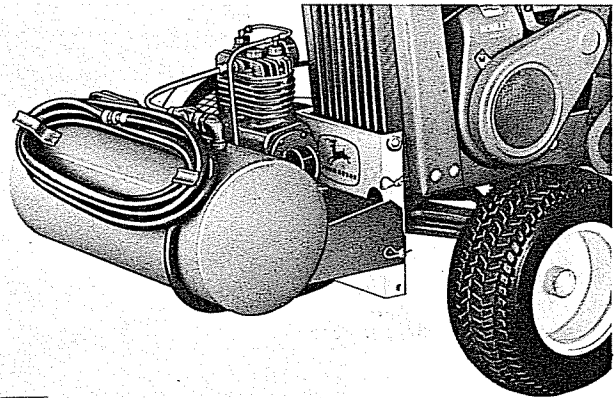
The pull-type No. 5 Sprayer is equipped with a 2-1/2 hp. 4-cycle air cooled engine. It can be ordered with handle-bars for use in hard-to-get-at places.

NO. 7 SPRAYER

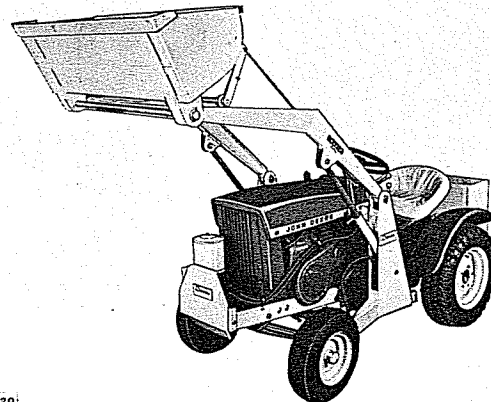


The John Deere No. 7 Sprayer is an integral rear-mounted sprayer equipped with a hand gun and 25 feet of hose. The 5-foot, spring-loaded boom is optional.

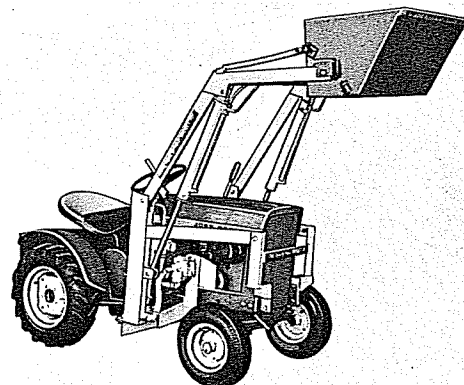
20 FRONT MOUNTED AIR COMPRESSOR



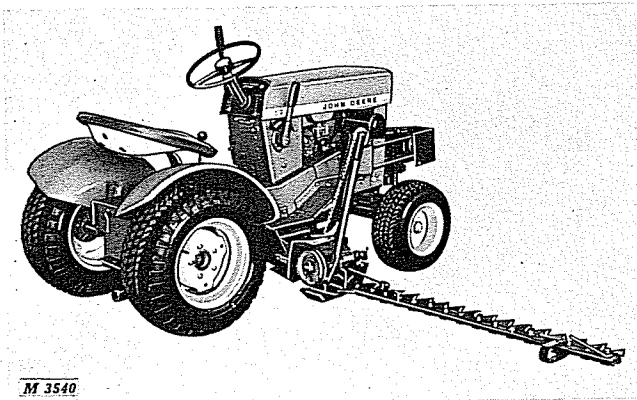
DANCO LOADER



JOHNSON LOADER

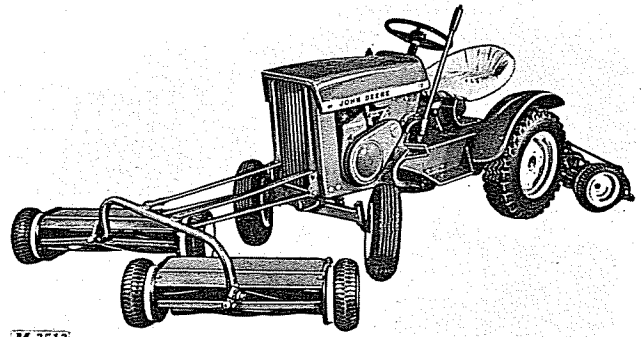


SICKLE BAR MOWER



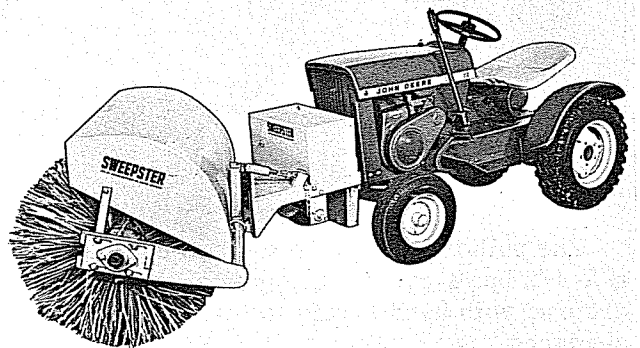
M 3540

GANG REEL MOWERS



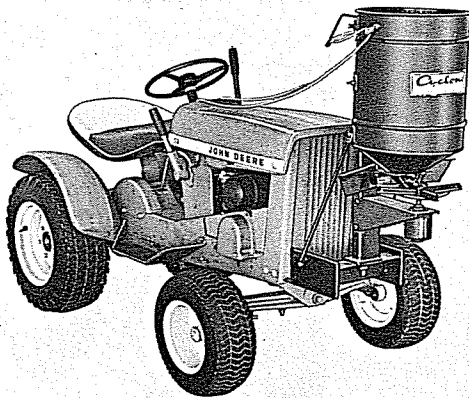
M 3513

ROTARY BROOM



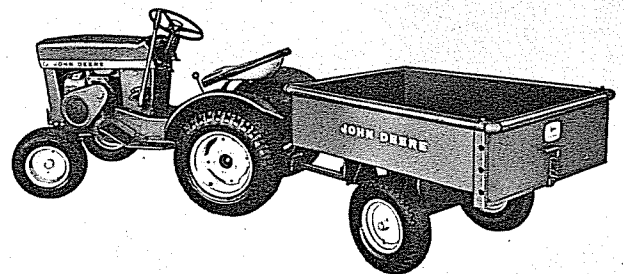
M 3538

ELECTRIC SPREADER



M 3555

80 CART



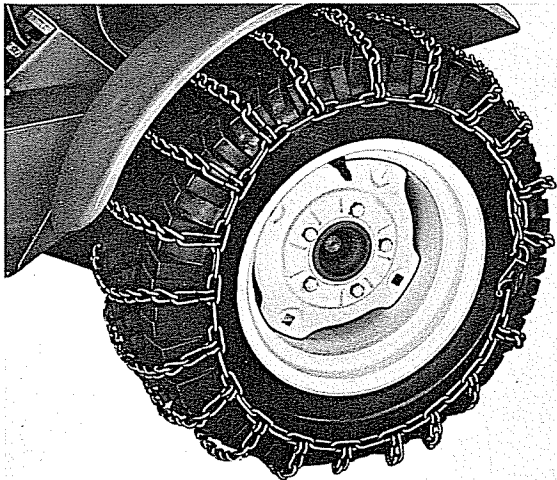
M 3514



ACCESSORIES

See your dealer for any of these accessories. They are available to help you get the most benefit from your tractor with the most ease and comfort.

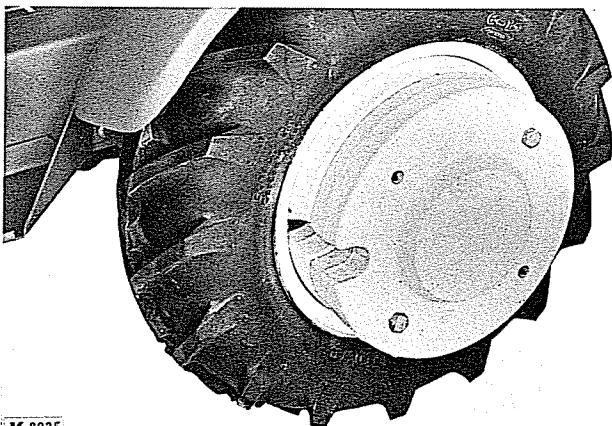
TIRE CHAINS



M 3515

Tire chains are especially valuable in the winter-time when clearing snow in icy conditions with either a snow thrower or front blade. They also can be used while plowing or whenever greater traction is required.

WHEEL WEIGHTS



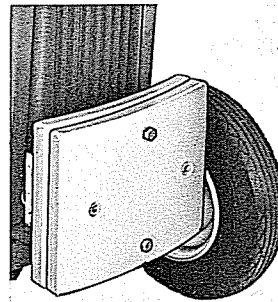
M 2925

Prevent excessive tire wear and wasted power because of wheel slippage by adding rear

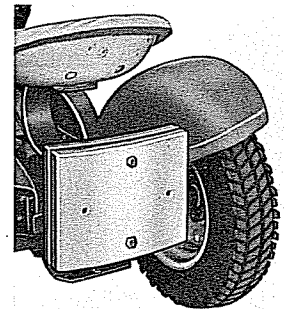
wheel weights. Each weighs 58 pounds. A maximum of two wheel weights may be bolted to each rear wheel or one wheel weight and two rear weights (shown below) may be used instead.

Do not use liquid ballast in tires for rear weight.

FRONT AND REAR WEIGHTS



M 2926



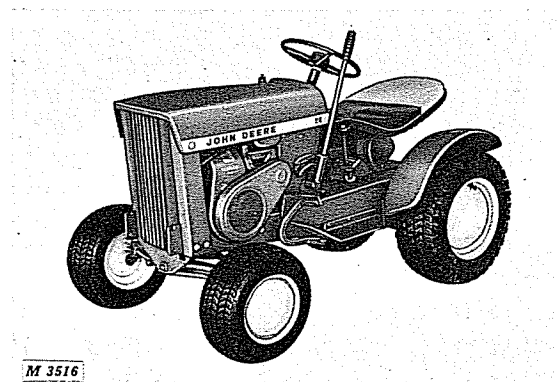
M 2927

Use 2 front weights for more stability for all rear tillage equipment.

Front weights also can be used for rear weights when attached with a pair of rear weight brackets.

Each weight weighs 39 pounds.

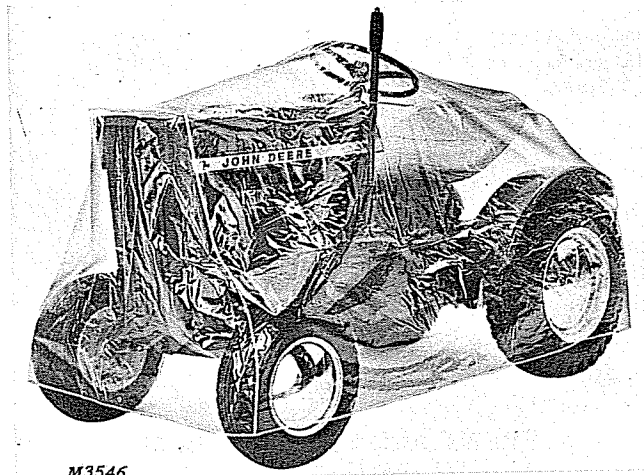
HUB CAPS



M 3516

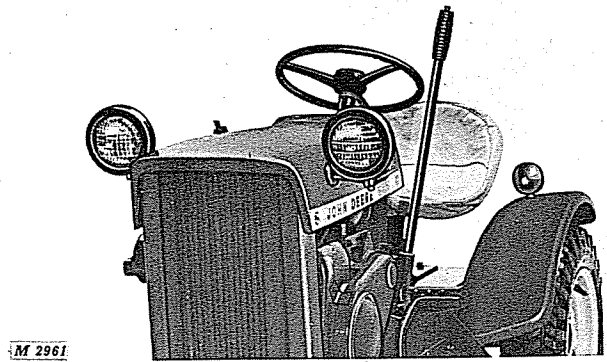
Dress up your tractor with bright reflective hub caps. A mirror-like chrome finish adds a real sparkle. Hub caps snap in place on each wheel and are easily removed.

ALL-WEATHER COVER



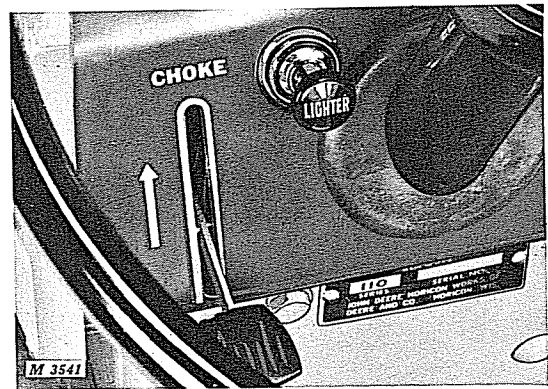
M 3546

FRONT AND REAR LIGHTS



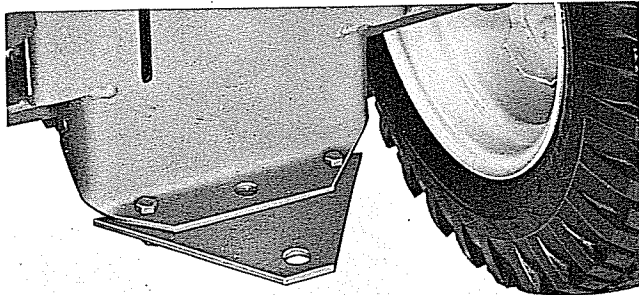
M 2961

LIGHTER



M 3541

HITCH EXTENSION



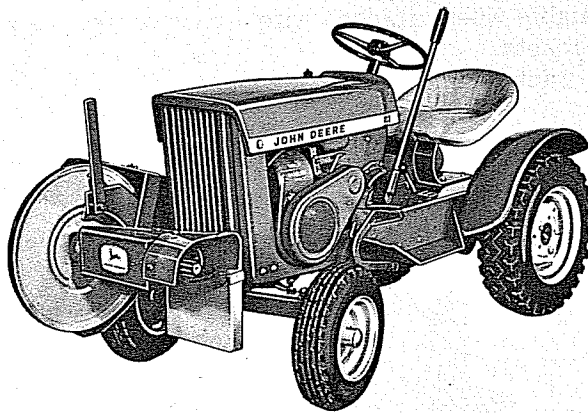
M 3517

UMBRELLA



M 2933

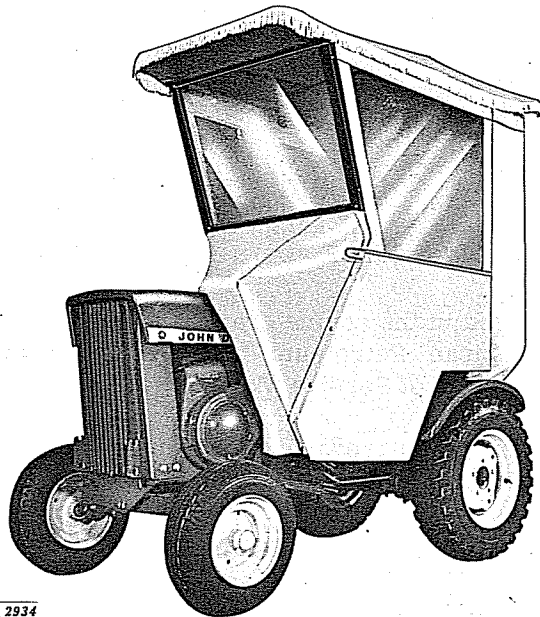
POWER TAKE-OFF



M 3511

This PTO attachment will drive stationary low horsepower equipment with standard ASAE 540 rpm drives such as farm flight and auger elevators, wagon hoists, etc.

WINTER ENCLOSURE

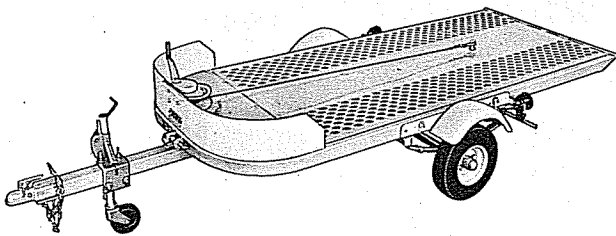


M 2934

For driver protection during cold weather, install this cab on your tractor. Transparent vinyl gives all-around visibility.

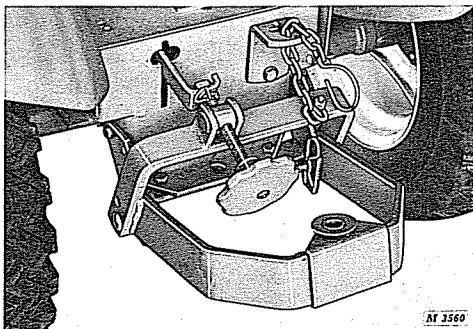
Remove sidewalls and use the top only as a sun shade if desired.

TRAILER



M 3558

INTEGRAL HITCH



M 3560

See page 12 for attachments used with the integral hitch. Adjustment information is on page 9.



SAFETY SUGGESTIONS



Avoid accidents by disconnecting spark plug cable before making any adjustments.

When mowing with the Rotary Mower, keep children and pets away from the mowing area. Keep hands and feet out from under the mower while engine is running and until blades have stopped rotating.

Before dismounting from tractor, stop engine, shift transmission to neutral, and set parking brake.

Keep all shields and guards in place.

Always drive slowly over rough ground. Drive at speeds slow enough to insure your safety.

Always wear relatively tight and belted clothing when operating tractor. Loose jackets, shirts, sleeves or other loose clothing should not be permitted because of the danger of catching them in moving parts or controls.

Be careful on hillsides and curves. The rate of tractor travel on hillsides and curves should be such that there is no danger of tipping. Be careful to prevent your tractor from tipping sideways if it strikes a hole, ditch, or other irregularity, especially when operating on hillsides.

Refuel your tractor only when the engine has been shut off. Never smoke while filling the fuel tank.

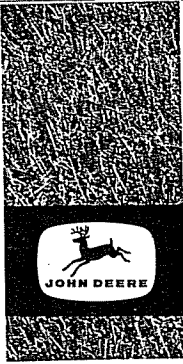
Never operate the tractor engine in a closed building.

When attaching drawn equipment to the tractor hitch, back the tractor past the clevis. Then move slowly forward so that in making the connection the tractor will be moving away from the equipment.

Always shut off engine and remove ignition key before leaving tractor.

Prevent accidental operating of the starter or engine. Always disconnect spark plug cable whenever working on the electrical system. Also do this when making adjustments to the engine or other moving parts.

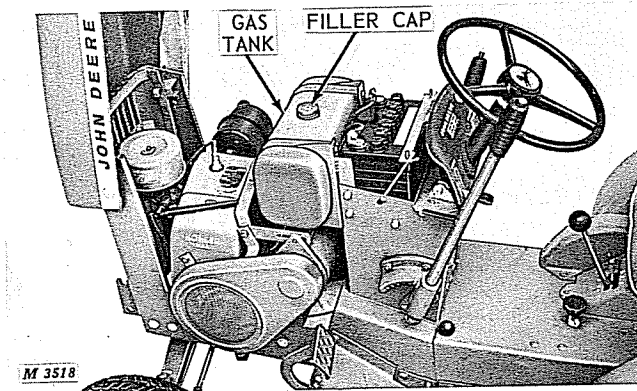
Move ground speed control to slow speed (rear) position when operating on steep hills or inclines for faster braking.



FUELS AND LUBRICANTS

FUELS

FILLING FUEL TANK



Raise tractor hood to fill fuel tank. Wipe dust and dirt from around tank cover before removing it to keep dirt out of the tank while filling. Use regular grade gasoline of recognized brand. White gas may be used only if the octane rating is at least 75. Never use premium gasoline. NOTE: Do not mix oil with gasoline. Be sure fuel containers are absolutely clean.



M 2582



Use precaution in handling any type of tractor fuel. Never refuel the tractor when the engine is hot or running. Do not smoke while filling the fuel tank.

LUBRICANTS

ENGINE CRANKCASE

Oil used in the engine crankcase should have an American Petroleum Institute (API)/SAE classification of Service MS.

Depending on prevailing air temperature, use oil of viscosity as shown in the following chart.

Air Temperature - Season	Single-Viscosity Oil
30° to 90°F. Summer	SAE 30
-0° to 30°F. Winter	SAE 10W
Below 0°F.	SAE 5W-20

Use of SAE 5W-20 oil may cause some increase in oil consumption. Check oil level more often when using this oil.

Do not fill engine crankcase above full mark. See page 19. When full, engine crankcase holds 2-1/2 U.S. pints.

TRANSMISSION

Use Genuine John Deere Garden Tractor Oil or its equivalent in tractor transmission. It can be purchased from your dealer in 8 oz. cans, Number AM30200M. It is a select non-foaming oil specifically suited for your transmission. This oil may be used in all types of weather conditions, and should last indefinitely. When filled, transmission holds 3 U.S. pints of oil.



LUBRICATION AND PERIODIC SERVICE

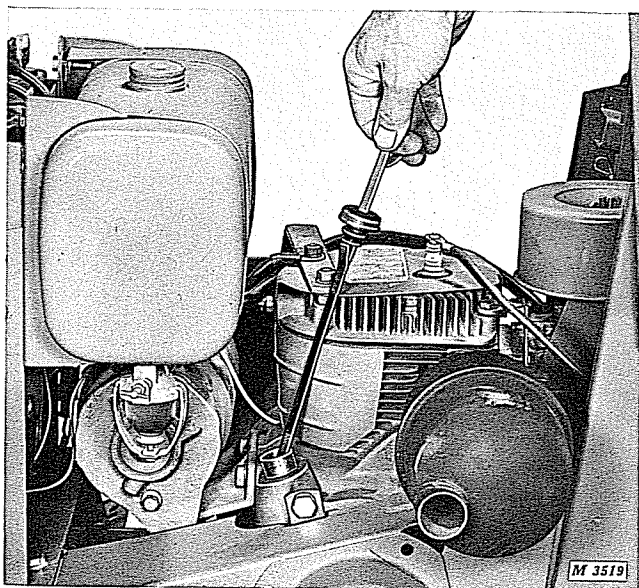
The recommended lubrication and service periods for your tractor are as follows:

- Daily or every 5 hours of operation.
- Weekly or every 25 hours of operation.
- Every 100 hours.
- Each spring and fall season.

The following procedures are given in the order of frequency.

DAILY OR EVERY 5 HOURS OF OPERATION

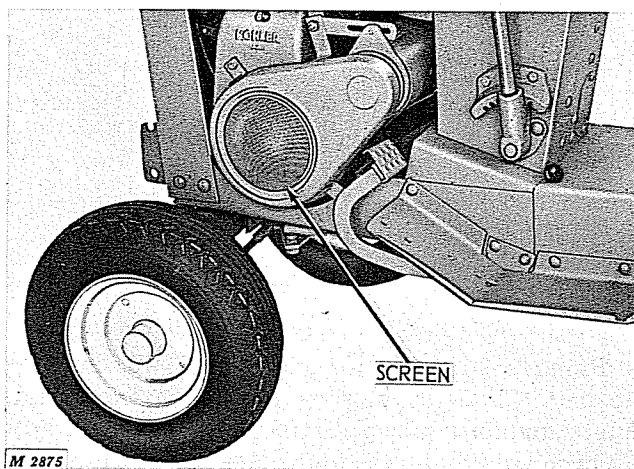
ENGINE CRANKCASE OIL LEVEL



Raise tractor hood, wipe off dust and dirt and pull out oil dipstick.

If necessary, add sufficient oil of the proper viscosity to bring oil level up to the full (F) mark on the dipstick when the dipstick is pushed down tight. *NOTE: Oil should not be over full mark. Be sure tractor is on level ground and engine is stopped before checking oil level.*

FLYWHEEL SCREEN



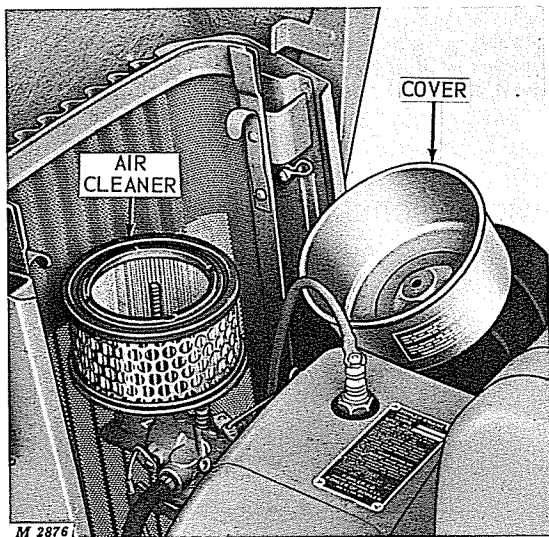
Make a visual check of the outside screen. The engine is air cooled and must have ample supply of air to prevent engine from overheating. Wipe all dirt or debris covering any of the screen.

Check screen often, especially when mowing or mulching leaves, to be sure screen is never completely blocked with dry grass clippings.

PLAN AHEAD —prevent accidents



AIR CLEANER



Remove air cleaner cover and lift out air cleaner. Clean by tapping lightly against solid object and brushing out dust with brush. Do not dip air cleaner into a liquid cleaner of any type. Replace cartridge if bent, crushed or damaged. Under extremely dusty conditions replace after 100 hours of operation.

Reassemble cartridge by first making sure it seats around bottom plate. Tighten wing nut on cover finger tight.

WEEKLY OR EVERY 25 HOURS OF OPERATION

Repeat all 5 hour service checks and perform additional service as follows:

BATTERY

Check battery, making sure liquid level is just below filler ring in each cell. If necessary, add distilled water. A healthy battery will consume about one teaspoon of water per cell each month.

Check battery terminals to be sure they are clean and free from corrosion. See page 26.

TIRE PRESSURE

Inflate tires to pressures shown in chart below.

Tire Inflation

Tire	All Purpose and Traction Tires	High Flotation Tires
Front	12 psi	8 psi
Rear	6 psi	5 psi

DRIVE BELT TENSION

Turn off engine and engage parking brake. Check underside of tractor for general belt condition. Replace all belts showing excessive wear. See page 32.

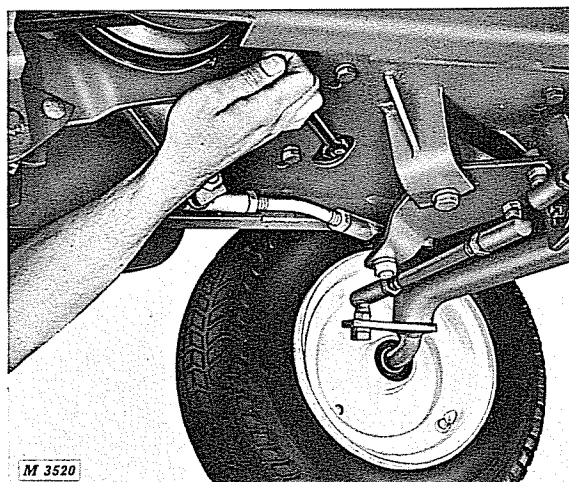
Tighten motor-generator belt tension. See page 31.

FUEL SEDIMENT BOWL

Check for dirt or water in the fuel sediment bowl below the gas tank. Clean thoroughly when required as instructed on page 23.

Check fuel strainer screen for presence of foreign particles.

ENGINE CRANKCASE



Remove drain plug and allow oil to drain into container.

Replace plug and refill crankcase with proper grade oil. Capacity of crankcase is 2-1/2 U. S. pints.

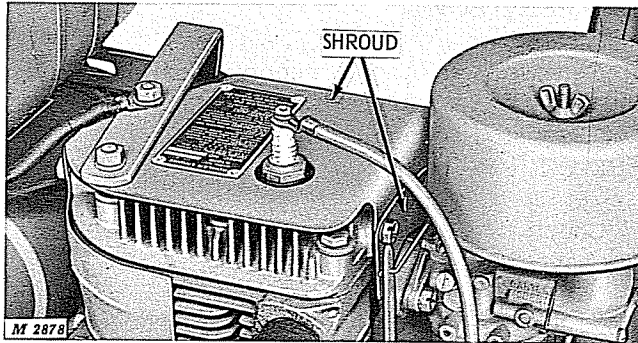
Change oil every eight hours when working in extremely dusty conditions.

NOTE: The best time to drain crankcase is at end of a day's operation at which time the oil is hot and all dirt and foreign material in crankcase is in suspension.

EVERY 100 HOURS OF OPERATION

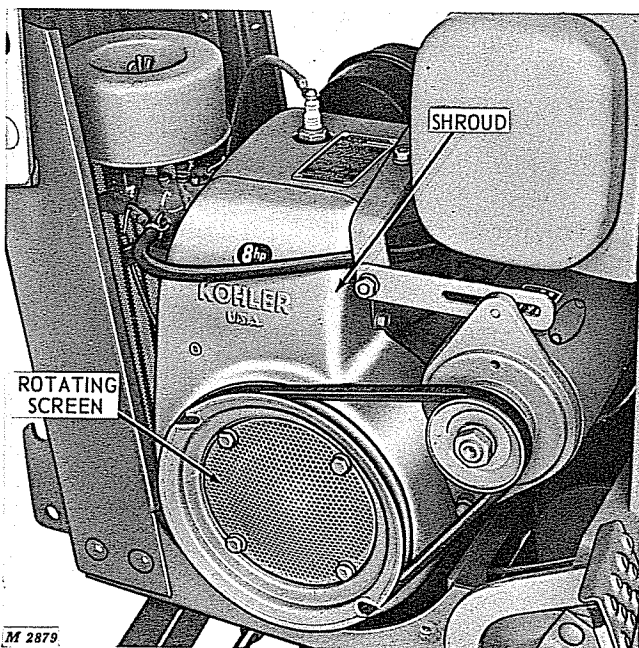
Repeat all 5 hour and 25 hour service checks and perform additional service as follows:

ENGINE SHROUDS



Be sure the engine cooling fins and the shrouds which enclose them are clean at all times. Dirt, oil and other debris which may have entered through the screens may lodge on cooling fins thereby restricting the normal air flow. This causes serious damage to engine parts because of overheating.

Remove bolts holding engine shroud in place and brush out all dirt from cooling fins. Clean inside of shroud thoroughly. Soak off oil deposits with safe solvent. **CAUTION: Do not run engine with shrouds removed.**

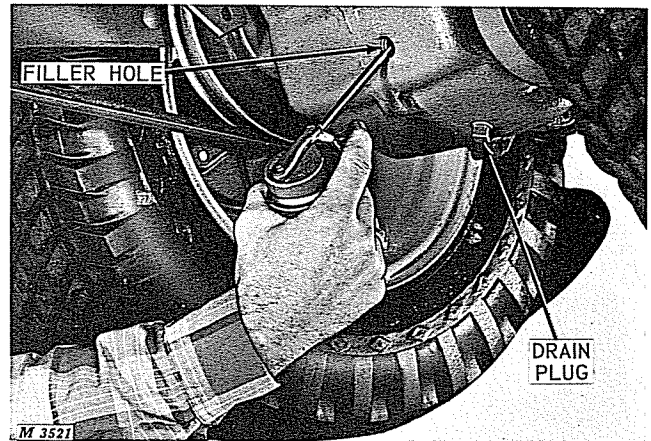


Remove rotating screen and check for oil or dirty fins on the flywheel. Be sure screen is clean and not damaged.

MOTOR-GENERATOR BELT TENSION

Check belt tension as instructed on page 31.

TRANSMISSION OIL LEVEL



Remove oil level (filler) plug and check oil level.

When required, use pressure oil can to add AM30200M Transmission Lubricant through filler hole until oil spills out. Be sure tractor is on level surface when checking.

A JD93 Pressure Oil Can is available from your dealer.

SPARK PLUG GAP

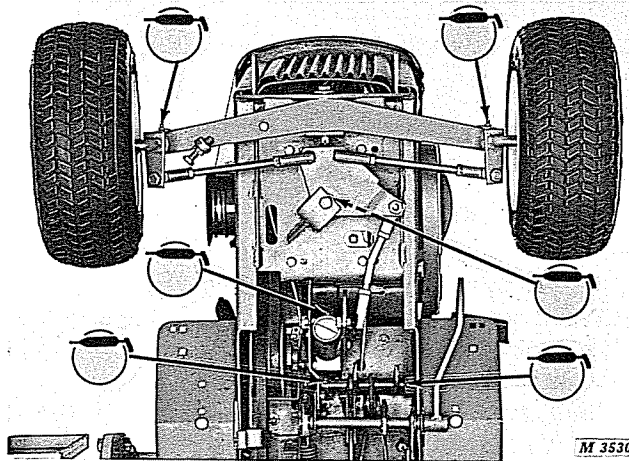
Check spark plug gap according to instructions on page 25.

EACH SPRING AND FALL SEASON

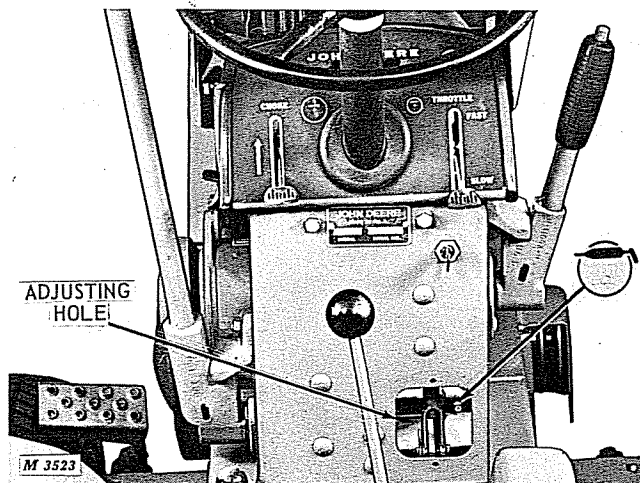
Each fall and again in the spring the following service should be performed. If the tractor is to be placed in storage, see page 35.

Repeat all 5 hour, 25 hour and 100 hour service checks and perform additional service as follows:

LUBRICATION OF FRONT AXLE AND STEERING COLUMN



VARIATOR LINKAGE



Use pressure grease gun to lubricate steering column, variator linkage and front axle fittings with SAE (seasonal grade) multipurpose-type grease. Wipe fittings clean after lubrication.

SEDIMENT BOWL

Remove, clean and replace sediment bowl and screen. See pages 23 and 24.

BREAKER POINTS

Check breaker points and reset to .020 inch. See page 25.

DEALER SERVICES

Your dealer offers complete tractor service. His trained personnel have access to accurate, detailed service information. Some of these dealer services are listed below:

1. Testing battery and electrical components.
2. Cleaning and adjusting carburetor.
3. Cleaning out engine carbon.
4. Testing engine compression.
5. Replacing motor-generator brushes, cleaning commutator.
6. Adjusting engine governor speed.

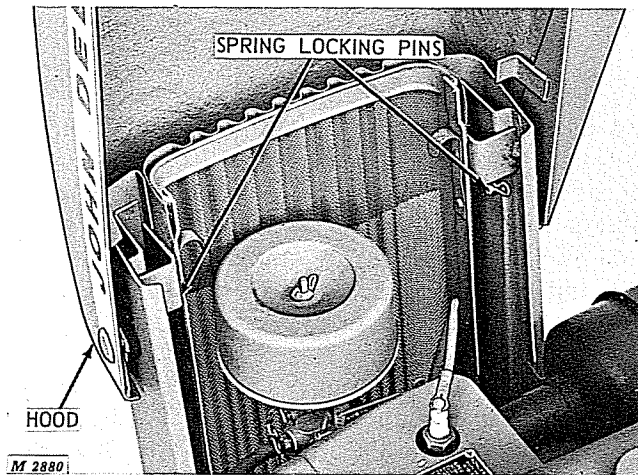
STORAGE

If tractor is to be stored for the season prepare it as instructed on page 35.



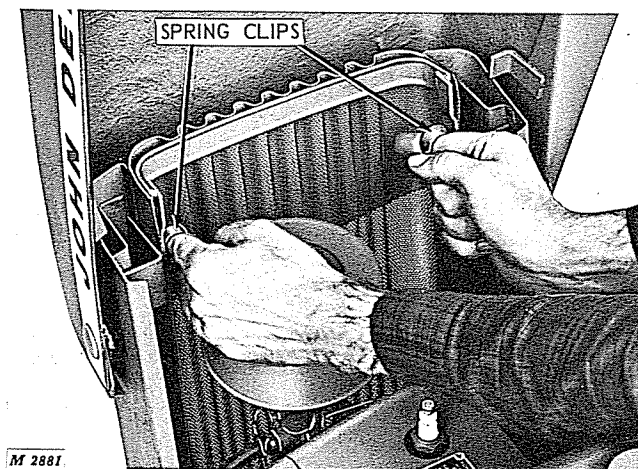
SERVICE

HOOD AND GRILLE



Engine and related parts are easily accessible by lifting and raising the hood. Hood will remain open after raising to a near vertical position.

NOTE: When removing hood pull both spring locking pins and remove one pivot pin. Spread hood only enough to remove.

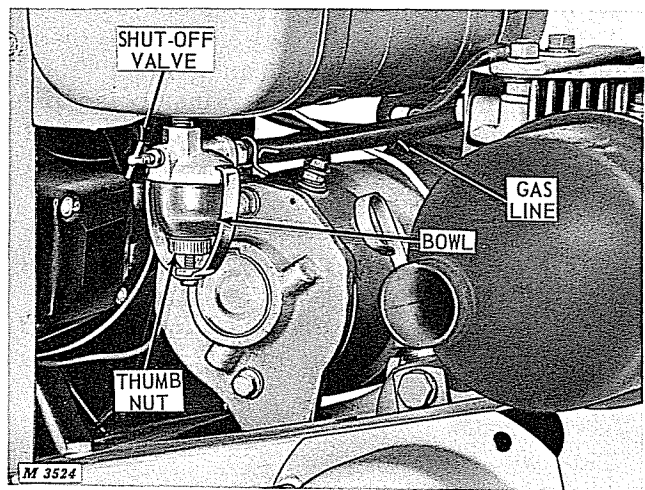


To remove grille for access to ignition points, carburetor, etc., pull spring clips inward until pins are free and lift grille out. When replacing, be sure guide pins on grille bottom are in place.

FUEL SYSTEM

Proper inspection and service of your fuel system is important to continued successful operation of your tractor.

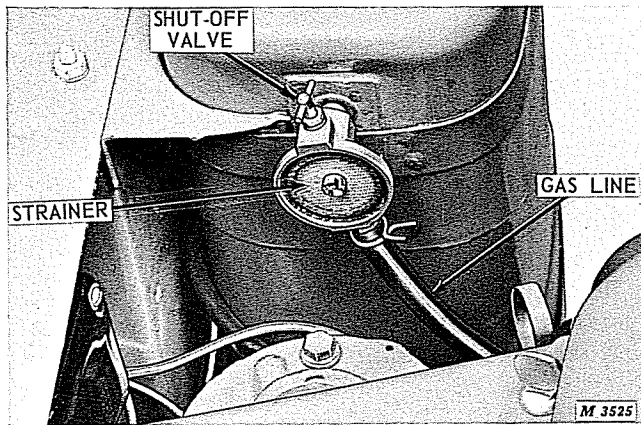
SEDIMENT BOWL



Check sediment bowl after every 25 hours of operation. If water or dirt particles are present, close fuel shut-off valve and loosen thumb nut until bowl can be removed. Clean thoroughly and replace.

If sedimentation is noticed at regular intervals, check fuel containers for dirt or rust.

FUEL STRAINER

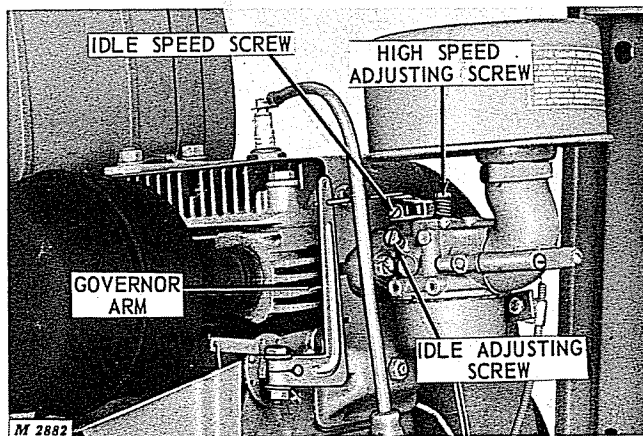


With fuel shut-off valve still closed, remove gasket and fuel strainer by carefully prying them over the center retainer. Clean strainer thoroughly, making sure that all strainer holes are open. Reassemble strainer. Check and install new gasket if required before installing sediment bowl.

IMPORTANT: After cleaning sediment bowl and strainer, remove gas line at carburetor while opening shut-off valve and filling sediment bowl. When gas begins to run out, connect gas line.

This will allow air to escape and avoid possible air lock in your gas line.

CARBURETOR ADJUSTMENT



Under normal operating conditions the carburetor will not require adjusting. If, after a period of time the engine misses, backfires, or excessive exhaust smoke is noticed, adjustment may be required.

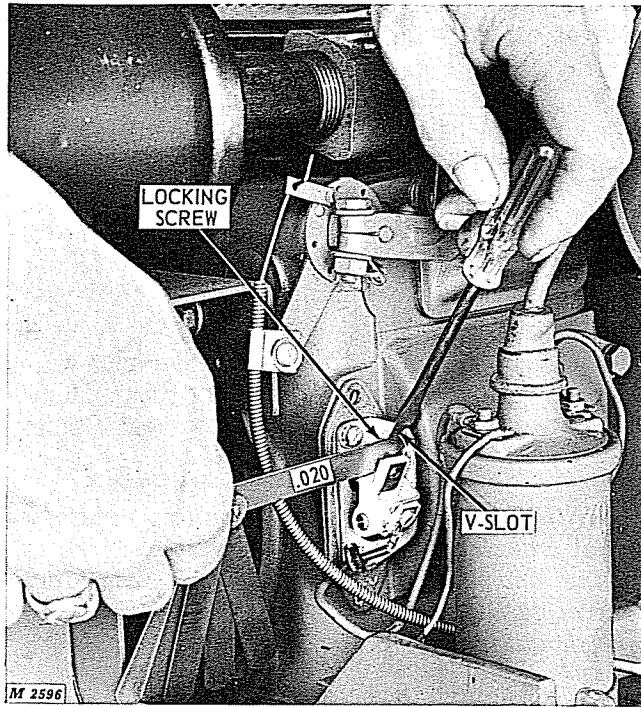
Idle adjustment and high speed adjustment must be made at the same time as each affects the other. Adjust as follows:


1. Run engine until warm.
 2. Turn high speed adjusting screw clockwise 1/4 turn each time until engine acceleration is uniform. Lift throttle lever on dash panel quickly to check for smooth acceleration. If engine misses or stops, the gas-air mixture is too lean. Turn high speed adjusting screw counter-clockwise until positive acceleration can be obtained. If excess exhaust smoke is noticed, mixture is too rich.
 3. As a final check, run engine at full throttle. Turn high speed adjusting screw until leanest mixture possible is obtained which still allows satisfactory acceleration and maximum speed.
 4. Allow engine to idle and turn idle adjusting screw until smoothest possible idle is obtained.
- Final idle adjustment should be made at an engine speed of not less than 1000 rpm. Turn in idle speed screw until suitable idle speed is obtained.
5. Recheck engine acceleration and high speed operation. Readjust idle adjusting screw until good balance is achieved.
 6. Governor arm is pre-set. If governor has been damaged or otherwise lost its adjustment, see your dealer. Tampering in any way with governor speed will nullify tractor engine warranty.

NOTE: Do not attempt to adjust governor arm or related linkage. See your dealer.

ELECTRICAL SYSTEM

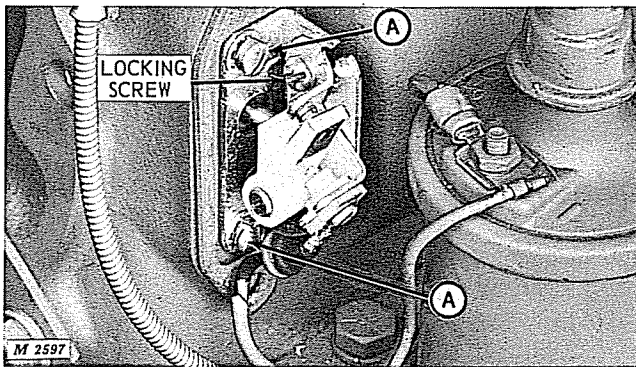
ADJUSTING POINTS



 Disconnect spark plug cable to prevent accidental starting of the engine. Remove ignition point cover and rotate engine flywheel until points are fully open.

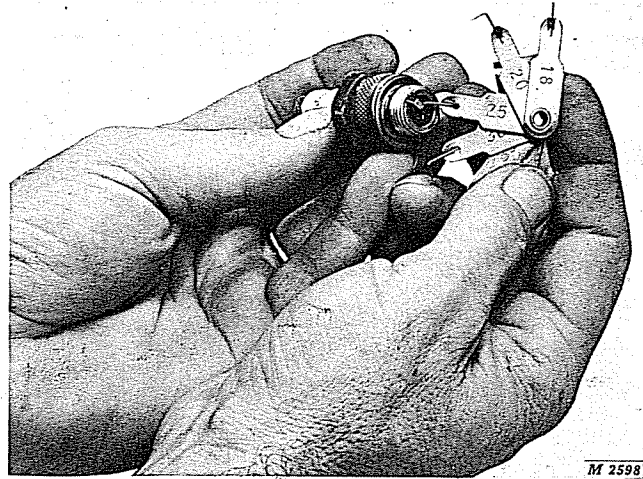
Check point gap with a .020-inch feeler gauge. If adjustment is required, loosen locking screw and move screwdriver in V-slot until points are properly set.

After tightening locking screw, recheck point gap.



To replace points remove screws "A." Be sure lock washers are in place before reassembly.

SPARK PLUG GAP



Check spark plug gap and condition of electrodes after every 100 hours of operation. Distance between electrodes should be .025 inch. Bend the outer electrode only for proper gap.

If electrodes have burned short or have become pitted, install a new spark plug.

Use a spark plug wrench to remove plug. Always use a new spark plug gasket when replacing plug. Tighten plug to 27 ft-lbs torque.

ACCIDENTS

SUBTRACT
from your pleasure
—

ADD +
to your miseries

DIVIDE ÷
your income

MULTIPLY X
your worries

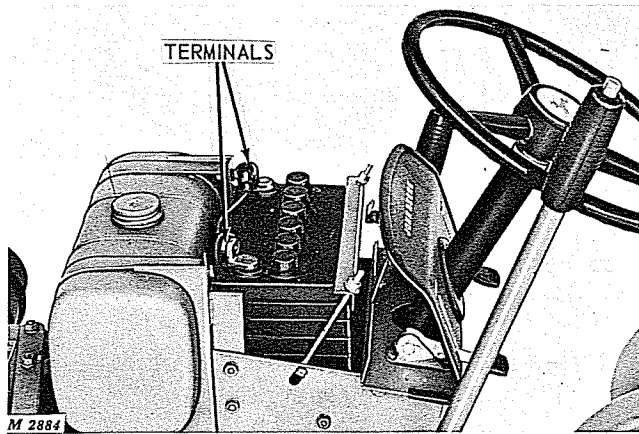
NATIONAL SAFETY COUNCIL R 2382

BATTERY

Your tractor has a 12-volt electrical system. When replacing battery, use a 12-volt, 24-ampere-hour minimum, light-utility rated battery.



CAUTION: Prevent accidental operation of the starter or engine. Always disconnect spark plug cable whenever working on the electrical system. Also do this when making adjustments to the engine or other moving parts.



Cleaning Battery

Remove battery cables and use a wire brush to remove corrosion around battery terminals. Wash terminals with a solution consisting of one part baking soda to four parts water. Do not allow cleaning solution to run into battery cells.

Coat terminals with petroleum jelly and connect battery cables. Be sure they are tight.

Wipe and wash entire battery case, platform and hold-down straps with clear water.

Be sure top and bottom vent holes in each cell cap are open.

Checking Battery Water Level

Check the liquid level of each cell by removing the cap. Water should completely cover the cells at all times. Fill each cell to just below ring level inside filler hole with distilled water. **IMPORTANT:** Always check electrolyte level after charging battery. If necessary, add distilled water to bring electrolyte back to proper level.

Use clean distilled water when possible to fill battery. When absolutely necessary, clean drinkable water may be used.

Keeping the liquid at proper level during winter or freezing weather is especially important. The battery must be kept fully charged also to prevent freezing.

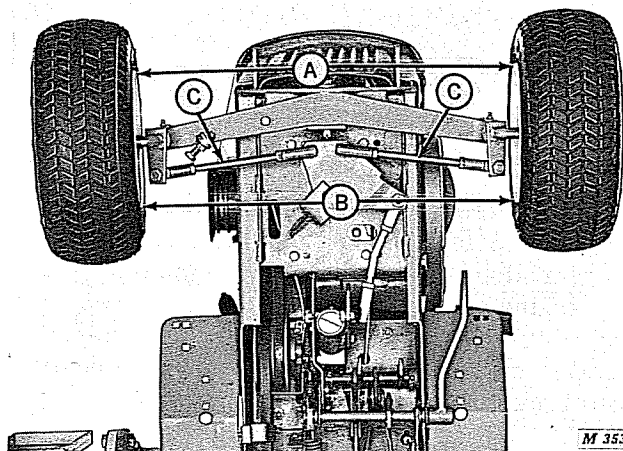
IMPORTANT: When adding water to battery during freezing weather be sure the engine is running and continues to run until water and electrolyte have had a chance to mix thoroughly. This should be at least an hour.

Battery connections should be tight at all times, especially when charging batteries. Loose cables will cause arcing and pitting of the connections and eventual failure.

NOTE: Be careful not to allow sparks or flames near a charged battery.

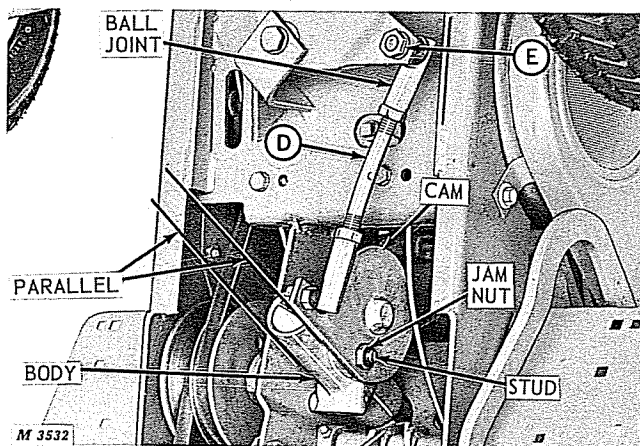
STEERING ADJUSTMENT

FRONT WHEEL TOE-IN



Measure distances "A" and "B" above. The tractor has proper toe-in or alignment when dimension "A" is 3/16-inch less than dimension "B." Where required, loosen jam nuts and turn both right- and left-hand rods "C" equally until properly toe-in is obtained. Tighten jam nuts firmly.

STEERING GEAR ALIGNMENT



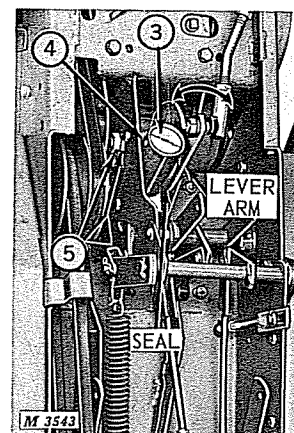
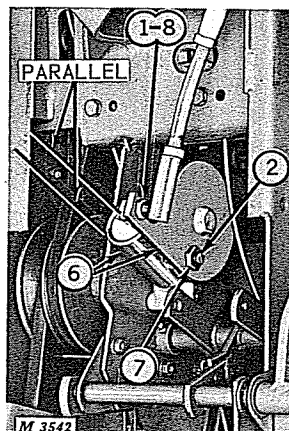
After checking and adjusting front wheel toe-in, visually check to be sure front wheels are pointed straight forward. Loosen front jam nut on rod "D" and remove nut "E." Turn ball joint either in or out until lever arm is parallel with steering gear body. Reassemble ball joint.

NOTE: Be sure rod "D" is positioned as shown (with the bend pointing towards the center of the tractor) before tightening jam nuts.

Check steering wheel for equal turn in both directions.

Readjust ball joint if necessary.

STEERING GEAR ADJUSTMENT



To remove excessive backlash (loose steering) and properly adjust steering gear, follow this procedure:

1. Disconnect ball joint from lever arm.
2. Loosen jam nut and turn stud out 2 or 3 turns.
3. Use screwdriver to turn adjusting plug into column until tight. Back out plug until steering wheel turns freely with no drag.
4. Restake adjusting plug in position by battering plug threads through holes provided.
5. Loosen jam nut and tighten just inside nut using thin open end wrench just until all wobble or end play (see arrow) is removed. Check this by hand. Tighten nut and jam nut.

NOTE: Be certain lever arm still turns freely and seal is not compressed.

6. Turn lever arm until the arm is parallel with steering gear body.
7. Turn stud in (clockwise) until snug, then back off slightly. Force lever arm through the full steering range in both directions (front to rear). Steering wheel will turn as this check is made. When properly adjusted a slight drag can be detected in the midpoint of the range (when lever arm is parallel with body). Tighten jam nut to 40 ft-lbs torque.

Make final test by turning lever arm through full range.

8. Connect ball joint to lever arm.

TRANSMISSION

Do not attempt to dismantle any part of your tractor transmission. See your dealer for all transmission service.



CLUTCH, BRAKE, AND GROUND SPEED CONTROL

The diagram below shows the tractor control linkage and how clutch-brake and ground speed control are related.

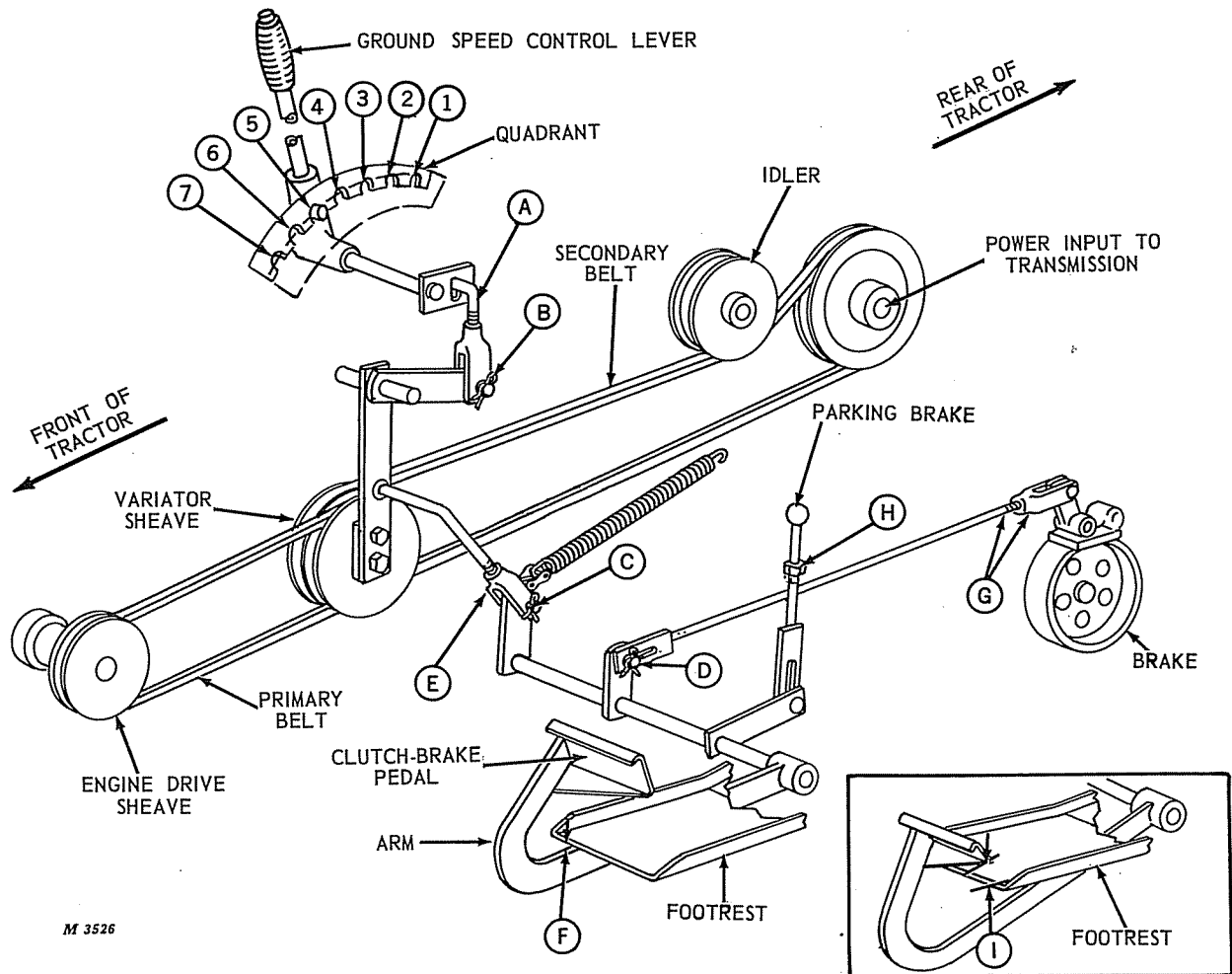
GROUND SPEED CONTROL LEVER

When the ground speed control lever is moved forward, the primary belt moves deeper into the inside groove of the variator sheave. Since the center sheave is free to move on its shaft, the secondary belt is forced higher on the sheave, thereby causing the tractor to operate at maximum speed.

When the ground speed control lever is moved to the rear position, the secondary belt is forced deeper into the variator sheave, causing the primary belt to ride higher on the sheave, thereby decreasing speed.

CLUTCH AND BRAKE

By depressing the clutch-brake pedal, the brake band is tightened and at the same time the variator sheave is moved forward causing the engine primary belt to loosen, thereby disengaging the drive. By lifting and locking the parking brake, the linkage is held in this position with brake on and drive disengaged.



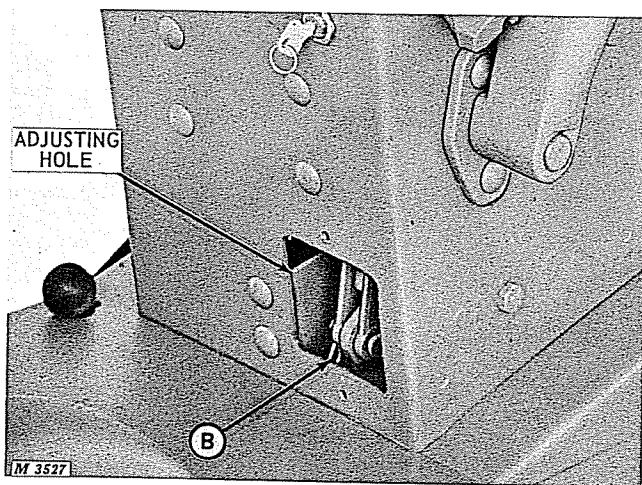
M 3526

LINKAGE ADJUSTMENT

All mechanical linkages used to engage the clutch, brake, and ground speed drive are factory adjusted and will not normally require adjusting. However, after a period of time, normal belt wear and stretch may make adjustment necessary.

When tractor linkage is properly adjusted, the ground speed control lever will increase tractor speed when moved forward from quadrant notch 1 through notch 5. See page 28. Linkage adjustment is necessary when belt wear and stretch causes tractor to be inoperative when ground speed control lever is in notch 1. When this happens, adjustment is necessary as follows:

1. Move ground speed control lever to the third notch from the front of the quadrant which is notch 5 in the illustration on page 28.



2. Remove inspection plate from pedestal to open adjusting hole. Bottom hole in plate is slotted for easy removal.

3. Remove spring locking pins at "B," "C," and "D."

4. Disconnect spark plug cable and turn engine with key starter several revolutions.

5. Hold link "A" to top of slot and turn threaded clevis up or down until pin can be easily inserted at "B." Insert spring locking pin.

6. Place 1/2-inch block between footrest and clutch-brake arm (dimension "F").

7. Turn threaded clevis "E" either up or down until pin and spring locking pin can be inserted easily at "C."

8. Connect pin "D" temporarily.

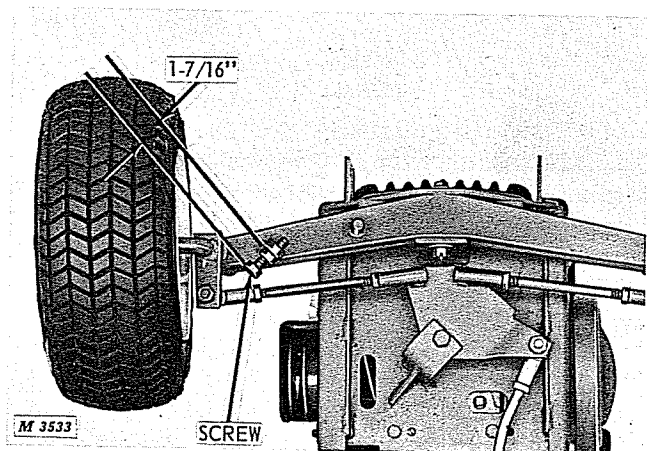
9. Turn engine several times with key starter while moving ground speed control lever to notch 1 (slow position).

10. Depress clutch-brake pedal as far as possible. The top of the clutch-brake pedal should now be 3/4 inch above the top of the footrest (dimension "I"). If not, turn brake rod into clevis "G" until the 3/4 inch dimension can be obtained. Insert spring locking pin into pin "D."

11. Turn nut "H" on parking brake rod either up or down until the clutch-brake pedal can be held in the lowered position.

If, after adjusting linkage, tractor still will not move when ground speed control lever is in first notch on the quadrant (slow speed position), remove inspection plate and turn threaded clevis "A" up one or two turns on the rod. If necessary, install a new primary belt.

STEERING STOP



The steering stop prevents the right front tire from striking the mower drive when turning to the right. Turn stop screw out far enough (approximately 1-7/16 inches) to prevent tire from striking the drive. Tighten jam nut.

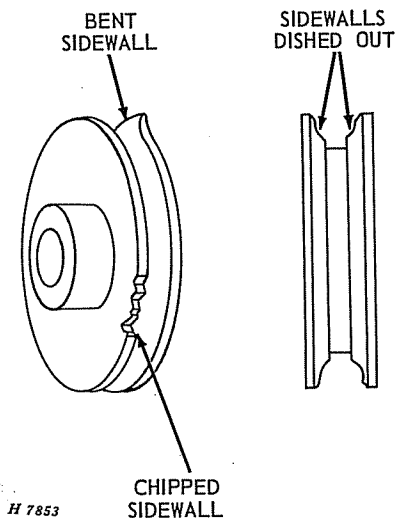
When mower is not being used, remove mower drive and reposition belt guard with opening facing forward. Turn screw into stop as far as it will go and tighten jam nut. This will permit a full turn in both directions.

V-BELT CARE AND MAINTENANCE

The V-belts in your tractor transmit power by friction and a wedging action against the sheaves. Belts are therefore subject to wear through periodic heavy load and should be checked often to be certain belt wear is normal. All belts and sheaves wear with use. Normal wear can be recognized as even wear - both on the belt and sides of the sheave.

NOTE: A slight raveling of the belt covering does not indicate premature failure. Cut off the raveling if the covering peels at the lap. Check for the cause of unusual belt wear as follows:

SHEAVE DEFECTS



Examine sheaves for bent or chipped sidewalls. Check also for excessive sidewall wear. Damaged sheaves cause rapid belt wear. A bent sheave reduces the gripping power of the belt. Replace sheaves having any of the above defects immediately.

DIRTY SHEAVES

Check to be sure dirt has not lodged and packed in sheave V-groove. Check especially the variator sheave. Excessive tractor vibration may be caused by dirt collecting inside the variator sheave. Loosen dirt so it will fall out when tractor is started.

Vibration can also be caused by lumpy V-belts. Check primary and secondary belts for swells and lumps. Use only factory recommended V-belts of the proper length when replacing.

V-BELT INSTALLATION

Whenever unusual V-belt wear, tear or other failure occurs, check immediately for the cause. After correcting the cause, replace V-belts by first loosening idler, loosening mounting bolts, or removing sheave.

IMPORTANT: Never pry belt over edge of sheave as this may rupture belt cords and shorten belt life. Place the belt in the sheave groove by hand.

V-BELT CLEANING

Clean belts by wiping them with a clean cloth. Immediately wipe off any spilled oil or grease. Avoid use of solvents since this will soften the materials and cause the clutch to grab.

Do not use belt dressings. Dressings often give only temporary gripping action while softening the belt and causing eventual deterioration, and shortening of the belt life. Dressings also will cause a "grabby" clutch.

CAUTION: Do not attempt to clean the belts while tractor is running.



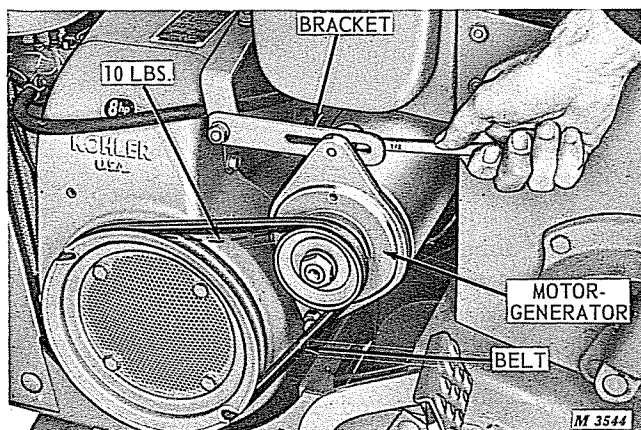
V-BELT TENSION ADJUSTMENT

V-belt tension should be adjusted if —

- A. Tractor engine fails to turn over when ignition switch is turned on and starter is running.
- B. Clutch-brake pedal strikes the bottom of footrest when ground speed control lever is in the forward position.
- C. Tractor does not move when ground speed control lever is in 1st notch (rear position).
- D. Secondary belt strands operate less than 3/4-inches apart.

Adjust V-belts as follows for each condition A through D.

A. MOTOR-GENERATOR BELT TENSION



The motor-generator belt will require tightening whenever the engine fails to turn over when the ignition is turned on and starter is running.

When belt slippage is first noticed, tighten belt immediately to prevent excessive belt wear. Do so by loosening cap screw on bracket and moving motor-generator back until a 10-pound pressure midway between the sheaves deflects the belt 1/4-inch.

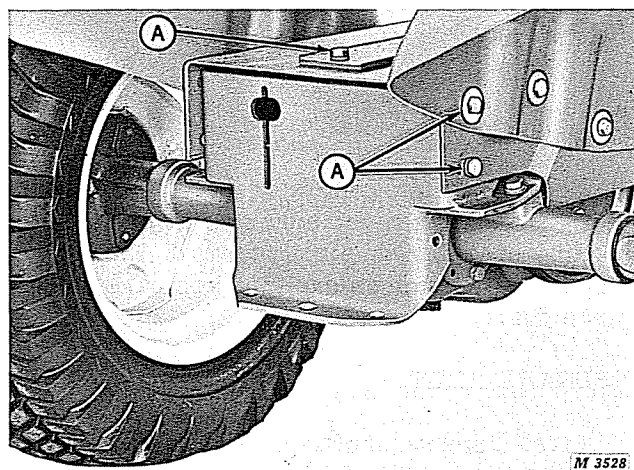
Tighten cap screw to hold motor-generator in this position to maintain proper tension.

B-C. PRIMARY BELT TENSION

If at any time the clutch-brake pedal strikes the bottom of the footrest or if the tractor does not move with the ground speed control lever in the first notch (rear position) the tractor linkage will require adjusting as explained on page 29.

If, after making the adjustment the tractor is still inoperative with the ground speed control lever in the first notch on the quadrant (page 28) install a new primary belt. See page 32.

D. SECONDARY BELT TENSION



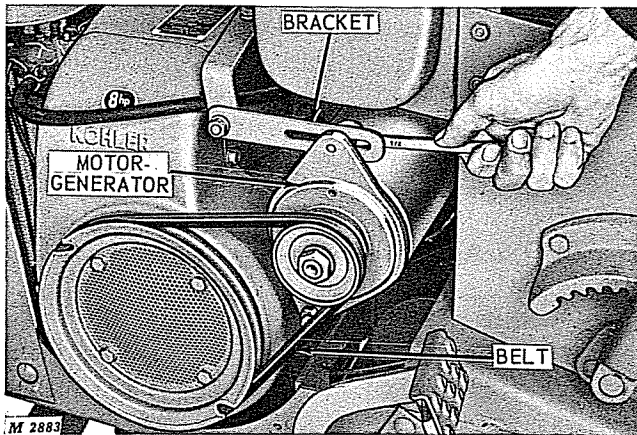
If excessive belt stretching allows the idler to rub on the lower belt strand, additional belt tension can be obtained by removing cap screws "A" and moving transmission rearward into second set of holes. Insert cap screws through rear holes and tighten.

After moving transmission, be sure to re-adjust brake rod linkage as explained on page 29. Tighten nuts firmly.

V-BELT REPLACEMENT

CAUTION: Be sure to remove spark plug cable before removing belts to prevent accidental starting of the engine.

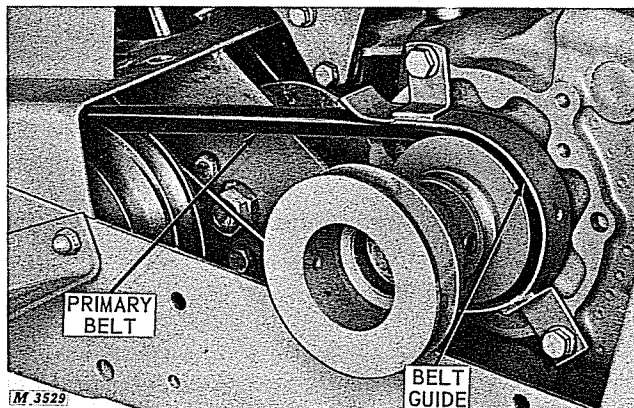
MOTOR-GENERATOR BELT



Replace motor-generator belt by removing belt guard. Loosen cap screw on bracket to allow motor-generator to pivot forward. Install belt and adjust tension as explained on page 31. Replace guard.

PRIMARY BELT

First remove muffler, belt guard, mower throw-out and belt if installed, and right-hand tractor panel.



Loosen variator belt guide and remove secondary belt from variator. See illustration at upper right.

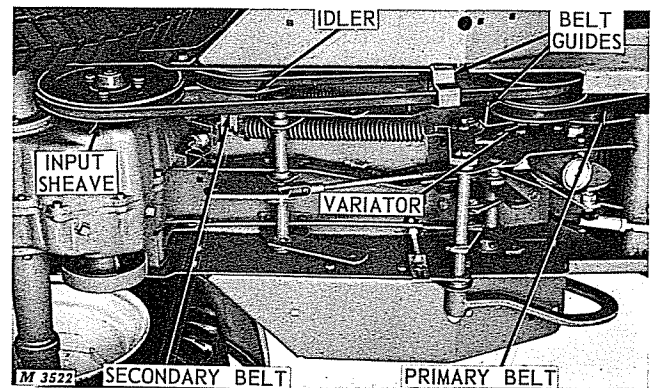
Remove cap screws and primary belt guide.

Depress clutch-brake pedal and lock parking brake to hold variator forward. Lift belt off variator and engine sheave.

Reverse above procedure to install new belt. Assemble all guides and guards in place.

IMPORTANT: After replacing primary belt readjust tractor linkage as instructed on pages 28 and 29.

SECONDARY BELT

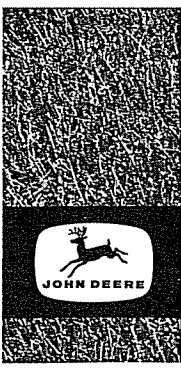


To replace worn or broken secondary belt, remove three cap screws from input sheave. Slide sheave off hub far enough to remove belt.

Install new belt around variator sheave. Block up secondary idler to remove belt tension and assemble belt and input sheave.

NOTE: If transmission has been moved rearward, to take up secondary belt slack prior to belt replacement (as shown on page 31), loosen bolts and move transmission forward before installing new secondary belt. Tighten bolts holding transmission.

Readjust brake rod for proper length after moving transmission.



TROUBLE SHOOTING

STARTER INOPERATIVE OR WILL NOT TURN ENGINE

- A. Transmission shift lever not in neutral position. Shift to neutral.
- B. Mower throw-out not in disengaged position. Disengage drive.
- C. Starter whines but will not turn engine.
 - 1. Motor-generator belt is slipping. Tighten belt as shown on page 31.
- D. Solenoid clicks but engine will not start.
 - 1. Check for discharged battery.
- E. Engine still will not start.
 - 1. Check for faulty neutral start and mower switches.
 - 2. Check electrical connections.

HARD STARTING

A. Faulty Ignition

Check for presence of spark by disconnecting high tension wire from plug and holding wire close to cylinder head while cranking engine with starter. If no spark, check:

- 1. High tension wire is loose from coil. If so, seat it firmly into top of coil.
- 2. Breaker point gap is incorrect. See page 25.
- 3. Breaker points are worn or pitted. Replace points.
- 4. Spark plug gap is incorrect. See page 25.
- 5. Spark plug electrodes are pitted or fouled. Replace plug.
- 6. If the foregoing fails to correct problem, see your dealer.

B. Faulty Carburetion

- 1. Gasoline may not be getting to the carburetor because of an air lock in the line. Lines

may be gummed and plugged. See page 24 to eliminate air lock.

- 2. Carburetor may be dirty or out of adjustment. See page 24.

C. Compression Loss

If engine can be turned over slowly by hand with little effort there is a loss of compression. See your dealer or serviceman.

ENGINE MISSING UNDER LOAD

- A. Check spark plug for proper gap. See page 25.
- B. Check for lean fuel mixture. Adjust carburetor high speed screw. See page 24.
- C. Check for dirty (fouled) spark plug or improper type plug.
- D. Pitted or worn breaker points should be replaced with a new set.
- E. See your serviceman for proper ignition and carburetion adjustments.

BACKFIRING

- A. Check carburetor for lean fuel mixture. See page 24.
- B. Sticky intake valve or improper ignition. See your serviceman or dealer.

KNOCKING

- A. Check fuel supply for low octane rating. Use only quality grade of regular gasoline.
- B. Check engine for overheating. See "Overheating" on next page.
- C. Check crankcase oil level. Fill to "F" mark on dipstick. *NOTE: If engine knock has developed because of lack of crankcase oil, have your dealer check condition of piston rod and cap.*
- D. Check carburetor for lean fuel mixture. See page 24.
- E. See your serviceman for possible loose connecting rod, improper timing or excessive carbon in combustion chamber.

LOSS OF ENGINE POWER

A. Overheating

1. Check and clean screens and engine shrouds. See pages 19 and 21.

2. Using premium gasoline with high octane rating. Use regular gas only. See page 18.

3. Check carburetor for lean fuel mixture. See page 24 for instructions on adjusting carburetor.

4. Check oil dipstick for excessive oil in engine crankcase. Do not fill above oil level mark. See page 19.

5. Check breaker points for proper gap. See page 25.

B. Dirty Air Cleaner

1. Check and clean air cleaner. See page 20.

C. Choke is Partly Closed

1. Check to be sure choke control cable is not jammed. Choke must be completely open (choke lever down) after engine is warmed up except on extremely cold days.

ENGINE OPERATING ERRATICALLY

Check the following:

A. Carburetor set too lean.

B. Clogged fuel line.

C. Water in fuel.

D. Faulty choke control.

E. Loose electrical connections.

F. Air leaks in carburetor connections or gasket.

G. Carburetor jet clogged.

H. Loose throttle cable.

ENGINE WILL NOT IDLE

A. Check carburetor adjustments. See page 24.

B. Dirty carburetor. See page 24.

C. Check and set spark plug gap. See page 25.

D. Check carburetor for air leaks in gasket.

E. See your serviceman for possible leaky valves or faulty condenser.

TRANSMISSION WILL NOT STAY IN GEAR

A. Shift gears firmly without letting gears "grind" before engaging.

B. See your serviceman to replace worn gears.

BRAKES NOT EFFECTIVE

A. Jerk shift lever into second or first gear.

B. Adjust brake and clutch linkage. See pages 28 and 29.

C. Replace brake band if worn excessively. See serviceman.

IMPROPER STEERING OR EXCESSIVE FRONT TIRE WEAR

A. Check wheel alignment and toe-in. See page 27.

B. Check and adjust steering gear. See page 27.

CLUTCH HARD TO OPERATE

A. Move ground speed control lever to rear (slow speed position) before applying clutch pressure.

B. Dirt on variator sheave hub—clean hub.

C. Start engine before depressing clutch-brake pedal.

TRACTOR WILL NOT MOVE WITH ENGINE RUNNING

A. Be sure tractor is in gear.

B. Move ground speed control lever to fast speed position.

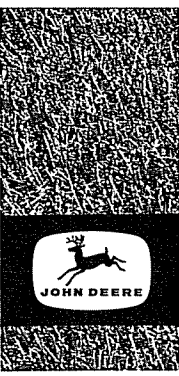
C. Adjust tractor linkage as explained on pages 28 and 29.

EXCESSIVE TRACTOR VIBRATION

A. Worn or lumpy V-belts. Replace V-belts.

B. Dirt in variator sheaves. Clean sheaves and hub.

C. Check sheaves for excessive wear and wobble.



STORAGE

If your tractor will not be used for a period of time such as through the winter season, perform the following operations.

PREPARING TRACTOR FOR STORAGE

ENGINE

1. Drain gasoline tank and carburetor by loosening nut on bottom of carburetor bowl.
2. Remove, clean and reinstall sediment bowl and screen. Also drain gasoline from fuel lines.
3. Remove all oil, grease and dirt from around engine and related parts.
4. Use spray paint or brush to touch up all unpainted areas to prevent rust.
5. Remove spark plug and pour in one tablespoonful SAE 30 oil. Turn engine over manually at least two times and replace spark plug.

TRACTOR

1. Remove battery and store where it will not freeze. Check water level. Refill and charge if necessary. See page 26.
2. Clean tractor exterior thoroughly, removing all mud, dirt, grease and other material.
3. Touch up all unpainted and exposed surfaces with paint to prevent rust.
4. Check all visible moving parts for wear, breakage or damage. Now is the time to order any parts required and make necessary repairs to avoid needless delay when starting again next season.

5. Block up tractor to take weight off tires. Store tractor in cool, dark and dry place if possible to prevent excess tire deterioration.

6. Wipe and clean belts with a dry cloth.

7. Remove belt tension from all belts. Lock parking brake to remove tension from primary belt. Block up secondary idler and loosen motor-generator. Disengage clutches on belt driven attachments.

Your dealer is equipped to give your tractor a complete service check and make recommendations for replacing parts in need of attention.

PREPARING TRACTOR FOR USE AFTER STORAGE

ENGINE

1. Drain and refill tractor crankcase with proper weight and grade oil. See pages 18 and 20.
2. Close fuel drain plug and refill gasoline tank. Be sure to remove fuel line from carburetor to prevent airlock. See page 24.
3. Clean spark plug and set gap. See page 25.
4. Check ignition point gap. See page 25.

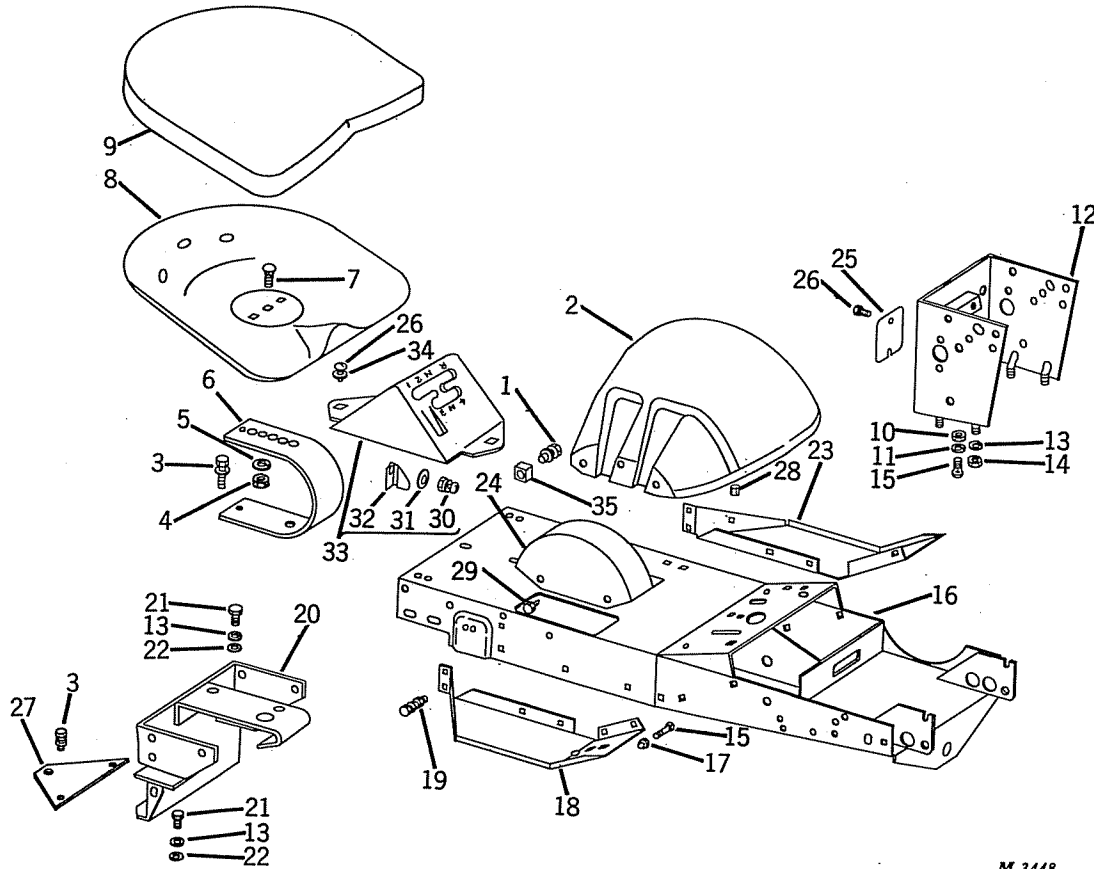
TRACTOR

1. Reinstall battery. Check liquid level. See page 26.
2. Check transmission oil level. See page 21.
3. Check tire inflation. See page 20.
4. See page 31 and adjust V-belt tension.



PARTS LIST

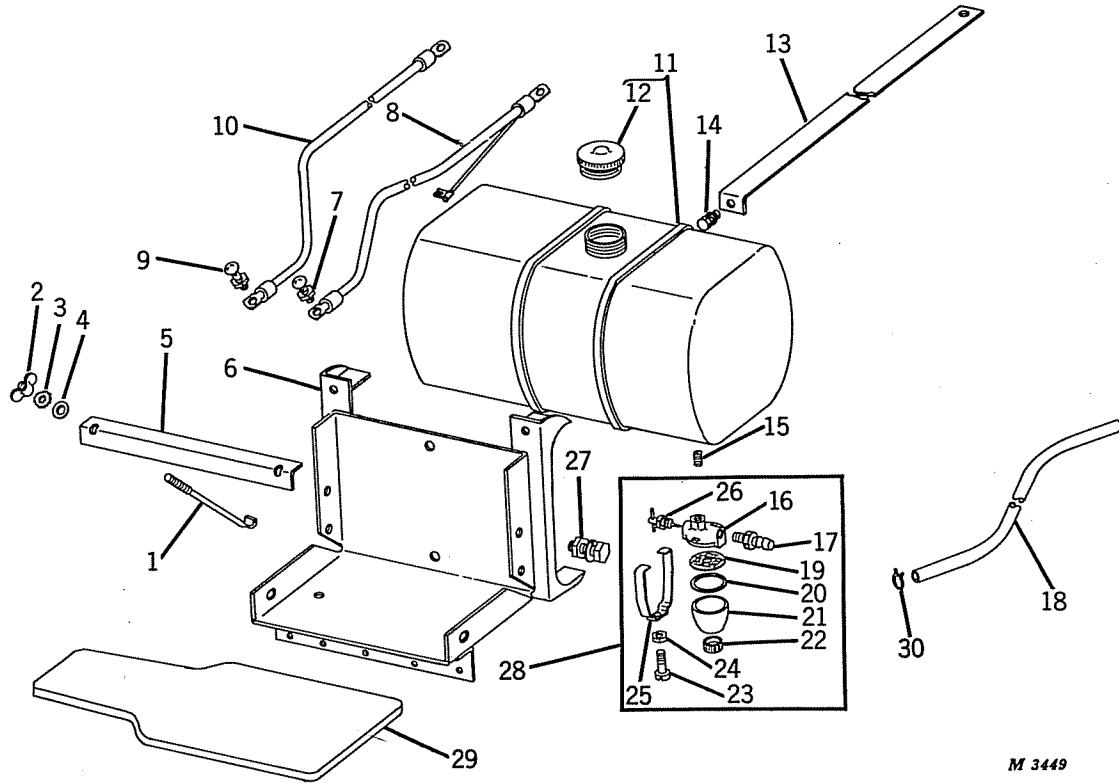
FRAME, FENDERS, AND SEAT



M 3448

Key	Part No.	Description	Key	Part No.	Description
1	M 40805 M	Screw, thread cutting, 3/8" x 5/8" (2 used) (packed 5 in a pkg.)	18	M 40022 M	Footrest, R.H.
	M 40806 M	Screw, thread cutting, 3/8" x 7/8" (6 used) (packed 5 in a pkg.)	19	3H 1539	Bolt, cge., 5/16" x 5/8" (10 used)
	12H 304	Washer, lock, 3/8" (8 used)		14H 785	Nut, hex., 5/16" (10 used)
2	M 40800 M	Fender, steel, R.H.		12H 303	Washer, lock, 5/16" (10 used)
	M 40801 M	Fender, steel, L.H. (shown)	20	AM 30359 M	Hitch
3	M 40807 M	Screw, thread cutting, 3/8" x 1-1/4" (2 used) (packed 5 in a pkg.)	21	19H 2417	Screw, cap, 3/8"-UNC-2A x 1" (5 used)
	12H 304	Washer, lock, 3/8" (2 used)	22	24H 1308	Washer, 13/32" x 1" x no. 10 (5 used)
4	14H 760	Nut, hex., 5/8"	23	M 40023 M	Footrest, L.H.
5	12H 294	Washer, lock, 5/8"	24	M 40017 M	Cover, idler
6	M 40002 M	Spring, seat	25	M 40454 M	Plate, pedestal
7	3H 1797	Bolt, cge., 5/8" x 1"	26	M 40692 M	Screw, metal no. 1/4" x 3/8" (4 used) (packed 5 in a pkg.)
8	AD 1606 R	Seat	27	M 40745 M	Extension, drawbar
9	AM 30095 M	Pad, seat	28	M 40683 M	Stop, fender (2 used) (packed 2 in a pkg.)
10	14H 785	Nut, hex., 5/16" (4 used)	29	M 41000	Screw, metal, 5/16" x 3/8" (4 used) (packed 5 in a pkg.)
11	12H 303	Washer, lock, 5/16" (4 used)	30	21H 1019	Screw, mach., rd. hd., 3/16" x 1/2"
12	AM 30358 M	Pedestal		24H 1283	Washer, 9/32" x 5/8" x no. 16
13	12H 304	Washer, lock, 3/8" (3 used)		14H 778	Nut, hex., 3/16"
14	14H 812	Nut, hex., 3/8" (3 used)	31	M 41016	Washer, spring
15	3H 1268	Bolt, cge., 5/16" x 3/4"	32	M 40835 M	Clip, lock-out
16	AM 30361 M	Frame	33	AM 30385 M	Quadrant, shift (M40804M) with clip assembled
17	14H 871	Nut, cap, hex., 5/16"	34	24H 1287	Washer, 9/32" x 5/8" x no. 16 (2 used)
			35	M 41074	Spacer, fender (2 used)

BATTERY BASE, FUEL TANK AND FILTER ASSEMBLY

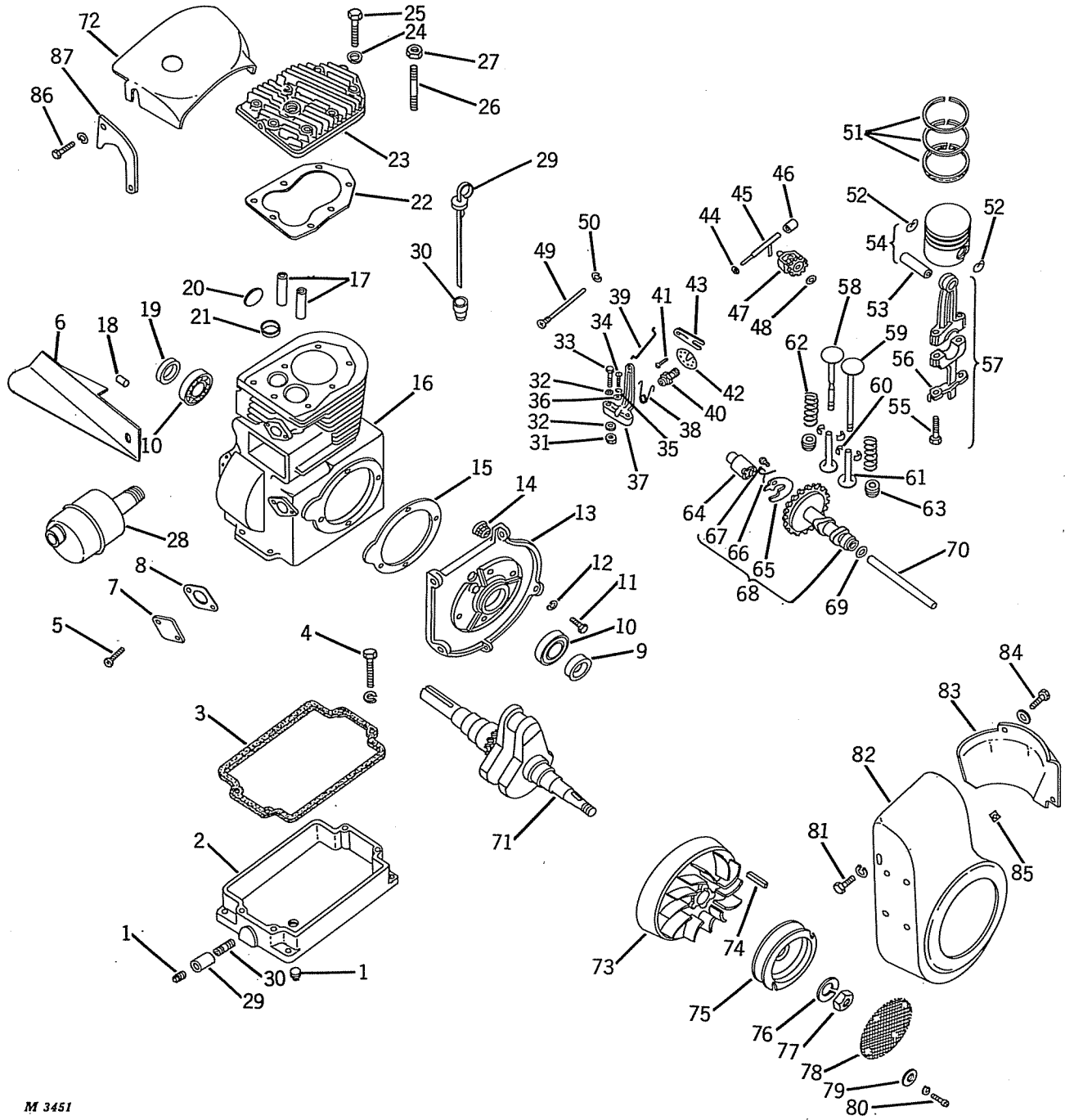


M 3449

Key	Part No.	Description
1	M 40004 M	Bolt, battery (2 used) (packed 2 in a pkg.)
2	14H 844	Nut, wing, 1/4" (2 used)
3	12H 297	Washer, tooth, 1/4" (2 used)
4	24H 1287	Washer, 9/32" x 5/8" x no. 16 (2 used)
5	M 40003 M	Angle, battery
6	AM 30251 M	Base, battery
7	3H 1772	Bolt, cge., 5/16" x 1/2"
	14H 785	Nut, hex., 5/16"
8	AM 30271 M	Cable, battery, 15" long with lead wire
9	3H 1063	Bolt, cge., 1/4" x 1/2"
	14H 786	Nut, hex., 1/4"
10	AM 30051 M	Cable, ground, battery, 17" long
11	AM 30375 M	Tank, fuel, with cap
12	M 40823 M	Cap, fuel tank
13	AM 30275 M	Strap, fuel tank (2 used)
14	19H 1914	Screw, cap, 1/4" x 1-1/2" (2 used)
	12H 302	Washer, lock, 1/4" (2 used)

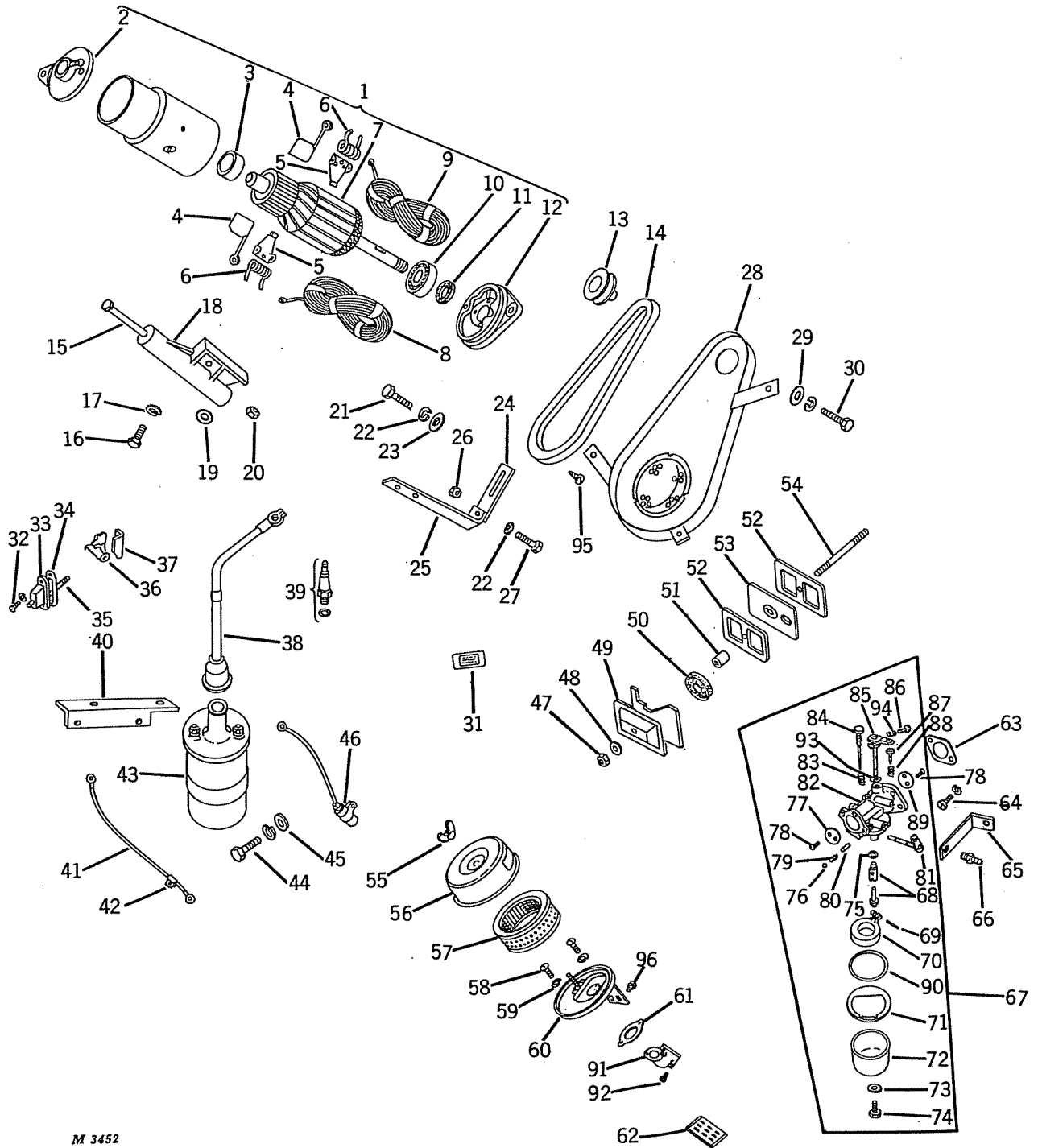
Key	Part No.	Description
15	29H 483	Nipple, pipe, 1/8" std. x 3/4"
16	AM 30177 M	Base, filter, fuel
17	M 40721 M	Connector, straight (packed 2 in a pkg.)
18	M 40110 M	Line, fuel, 1/4" I.D. x 18" long
19	M 40414 M	Screen, filter, fuel
20	M 40413 M	Gasket, filter, fuel
21	M 40415 M	Bowl, filter, fuel
22	AM 30178 M	Cup, clamping
23	21H 1104	Screw, mach., fill. hd., no. 10 x 5/8"
24	14H 631	Nut, hex., no. 10
25	M 40412 M	Bail
26	AM 30179 M	Valve, needle, assembly
27	19H 1919	Screw, cap, 1/4" x 5/8" (8 used)
	14H 786	Nut, hex., 1/4" (8 used)
	12H 302	Washer, lock, 1/4" (8 used)
28	AM 30069 M	Filter, fuel, assembly
29	M 40840 M	Pad, battery
30	T 13254 T	Clamp, hose (2 used)

ENGINE AND COMPONENT PARTS (8 H.P. K181S)



Key	Part No.	Description	Key	Part No.	Description
1	X-75-10	Plug, pipe, 3/8"	52	230004	Retainer, pin (2 used)
2	231594	Pan, oil	53	231956	Pin, piston - std.
3	230057	Gasket, pan		231954	Pin, piston (.005" oversize)
4	X-154-3	Screw, H. C. 5/16"-18 x 1" (with washer) (4 used)		231955	Pin, piston (.010" oversize)
5	X-132-6	Screw, H. C. 1/4"-20 x 1/2" (2 used)	54	A-231809	Piston assembly (std.)
6	M 40803 M	Shield, heat		A-231811	Piston assembly (.010" oversize)
7	240282	Cover, pump pad		A-231812	Piston assembly (.020" oversize)
8	240281	Gasket, fuel pump pad		A-231813	Piston assembly (.030" oversize)
9	X-583-1	Seal, front oil	55	230526	Screw, connecting rod (2 used)
10	230151	Bearing, ball (2 used)	56	230525	Lock, screw
11	X-5-8	Screw, H. C. 1/2"-20 x 3/4" (4 used)	57	A-231801	Rod, connecting
12	X-25-55	Washer, 1/4" (4 used)		A-231801-10	Rod, connecting (.010" undersize)
13	231737	Plate, bearing	58	230710	Valve, exhaust
14	X-301-1	Button, plug		230027	Valve, exhaust (Stellite)
15	230071	Gasket, bearing plate	59	230008	Valve, intake
16	A-232640	Block, cylinder, assembly		230582	Valve, intake (Stellite)
17	230007-S	Guide, valve (2 used)	60	240013	Keeper, spring (4 used)
	230035	Guide, valve, .0015" O.S. (2 used)	61	230013	Tappet, valve (2 used)
	230110	Insert, exhaust valve (service)	62	230010	Spring, valve (2 used)
	230265	Insert, intake valve (service)	63	230011	Retainer, spring (2 used)
18	230125-S	Shaft, governor	64	230690	Cam, ignition
19	X-583-2	Seal, rear oil	65	230087	Flyweight (2 used)
20	X-230-11	Plug, expansion	66	275267	Spring, spark advance (2 used)
21	230170-S	Insert, exhaust valve (Eatonite or Stellite)	67	231730	Pin, flyweight (2 used)
22	230024	Gasket, head	68	A-231733	Camshaft assembly
23	230402	Head, cylinder	69	230293	Spacer, camshaft, .005" (as required)
24	220534	Washer (9 used)		230294	Spacer, camshaft, .010" (as required)
25	230175	Screw, H. C., 5/16"-18 x 1-1/2" (5 used)	70	231579	Pin, camshaft
26	220304	Stud (2 used)	71	231761	Crankshaft
27	X-82-2	Nut, hex. 5/16"-18 (2 used)	72	230939	Baffle, head
28	AM 30280 M	Muffler	73	231770	Flywheel
29	232657	Dipstick, oil	74	X-286-1	Key, 3/16"
30	232656	Tube, dipstick	75	231330	Pulley
31	X-81-1	Nut, hex., 1/4"-20	76	X-25-15	Washer, lock, 5/8"
32	X-25-72	Washer, 1/4" (2 used)	77	X-119-4	Nut, hex., 5/8"-18
33	X-5-7	Screw, H. C., 1/4"-20 x 1"	78	231523	Screen, grass
34	X-51-12	Screw, R.H.M., no. 8-22 x 3/8"	79	X-25-63	Washer, 1/4" (4 used)
35	X-18-2	Washer, lock, no. 8	80	X-153-2	Screw, H. C., 1/4"-20 x 5/8" (with washer) (4 used)
36	X-25-48	Washer, plain, no. 8	81	X-132-1	Screw, H. C., 1/4"-20 x 3/8" (with washer)
37	230494	Lever, governor	82	231780	Housing, blower
38	231880	Spring, governor	83	230054	Baffle, cylinder
39	230078	Linkage, governor	84	X-132-2	Screw, H. C., 1/4"-20 x 3/4" (with washer) (4 used)
40	230476	Bushing, governor	85	231890	Decal, 8 H. P.
41	X-67-5	Screw, drive	86	X-134-1	Screw, sld. hd., 1/4"-20 x 3/4" (with washer)
42	232513	Disc, regulating	87	230757	Baffle, side air
43	230477	Bracket, speed control	..	230165	Kit, engine gasket repair (consists of (2) 230048, (2) 230223, 210223, 220174, 230024, 230057, 230071, 240281, 220537, X-271-12, X-271-17 and 230046)
44	X-25-58	Washer	..	30198 A	(Kohler No.) engine, complete (includes all parts shown on pages 39 and 41 except AM30280M muffler)
45	A-230540	Governor cross shaft assembly			
46	X-293-4	Bearing, needle			
47	A-235157	Gear, governor			
48	X-25-13	Washer, brass			
49	231355	Pin, governor step			
50	X-25-12	Washer			
51	231973	Ring set - std.			
	231974	Ring set, .010"			
	231975	Ring set, .020"			
	231976	Ring set, .030"			

ELECTRIC STARTER, IGNITION AND CARBURETOR (8 H.P. K181S)



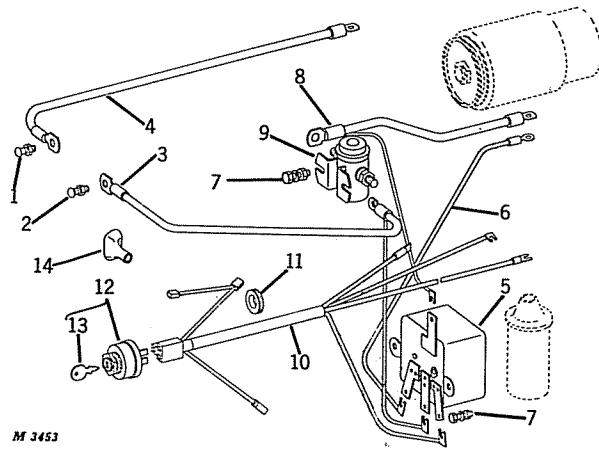
M 3452

ELECTRIC STARTER, IGNITION AND CARBURETOR (8 H.P. K181S) -- Continued

41

Key	Part No.	Description	Key	Part No.	Description
1	B-275847	Starter - generator assembly	50	231419	Filter
2	275922	Frame, C.E.	51	230046	Seal, breather
3	230813	Bearing, C.E.	52	230048	Gasket, valve cover (2 used)
4	275923	Brush (2 used)	53	A-230066	Breather assembly
5	275743	Arm, brush (2 used)	54	230043	Stud, valve cover
6	275742	Spring, brush (2 used)	55	X-276-4	Nut, wing
7	A-275738	Armature - assembly	56	231855	Cover, air cleaner
8	275740	Coil, field, L.H.	57	231847	Element, filter
9	275739	Coil, field, R.H.	58	X-51-12	Screw, R.H.M., no. 8-32 x 3/8" (2 used)
10	270311	Bearing, D.E.	59	X-18-2	Washer, lock, no. 8 (2 used)
11	275745	Washer, felt	60	232551	Base, air cleaner
12	275924	Frame, D.E.	61	220537	Gasket, air cleaner
13	231278	Pulley, generator	62	220720	Decal, instruction
14	231605	Belt, 3V	63	210223	Gasket, carburetor
15	236038	Screw, H.C., 5/16"-24 x 7-1/2"	64	X-140-1	Screw, H.C., 1/4"-20 x 3/4" (with washer) (2 used)
16	X-129-4	Screw, H.C., 3/8"-16 x 7/8" (2 used)	65	231232	Bracket, choke
17	X-22-1	Washer, lock, 3/8" (2 used)	66	M 40721 M	Connector, straight (packed 2 in a pkg.)
18	231998	Support, starter lower	67	B-231739	Carburetor assembly
19	231149	Shim, .005" (as required)	68	200443	Needle and seat
	231150	Shim, .010" (as required)	69	200376	Pin, float
20	X-101-4	Nut, stop, 5/16"-24	70	200408	Float and lever
21	X-125-3	Screw, H.C., 5/16"-18 x 3/4"	71	200439	Gasket, bowl
22	X-21-1	Washer, lock, 5/16" (3 used)	72	200418	Bowl, carburetor
23	X-25-5	Washer, 5/16"	73	200372	Gasket, bowl nut
24	231828	Bracket, starter adjusting	74	200420	Bolt, bowl
25	231829	Support, starter upper	75	200371	Gasket, needle seat
26	X-82-2	Nut, hex., 5/16"-18 (3 used)	76	200385	Ball, choke shaft
27	X-154-2	Screw, H.C., 5/16"-18 x 1"	77	200417	Valve, choke
28	231962	Guard, belt	78	200379	Screw, choke and throttle valve
29	X-25-63	Washer, 1/4"	79	200382	Spring, choke shaft
30	X-132-1	Screw, H.C., 1/4"-20 x 3/8" (with washer)	80	270462	Plug, rivet
31	271009	Decal, 12-volt	81	200437	Shaft, choke with lever
32	X-131-1	Screw, F.H.M., no. 10-24 x 3/8" (with washer) (4 used)	82	Sub. B-231739 assembly
33	A-220136	Cover, breaker - assembly	83	200383	Spring, high speed needle
34	220174	Gasket, cover	84	232635	Needle, high speed
35	X-389-2	Rod, breaker	85	232554	Shaft, throttle with lever
36	220475	Points, breaker	86	232556	Screw, throttle lever adjusting
37	220476	Bracket, breaker points	87	200438	Screw, idle adjustment
38	A-231960	Cable, hi-tension (make up from 12-1/4" R32006R cable, A3539 nipple, R32012R terminal, and R32017R terminal)	88	200381	Spring, idle adjustment screw
39	AP 19170 H	Plug, spark, Champion type J-8	89	200361	Valve, throttle
	AF 2180 R	Plug, spark, AC type 45-M	90	200375	Gasket, bowl ring
	AR 14020 R	Plug, spark, Prestolite 14-7	91	232505	Elbow, air cleaner
40	232632	Bracket, coil	92	X-51-41	Screw, R.H.M., no. 8 x 3/8" (2 used)
41	A-230340	Lead, breaker	93	200440	Seal, throttle
42	230249	Clip	94	232555	Spring, throttle lever
43	231323	Coil, ignition	95	M 40733 M	Screw, sheet metal, 5/16" x 1/2"
44	X-134-3	Screw, H.C., 1/4"-20 x 3/4" (with washer) (2 used)	96	X-67-43	Screw, self top, no. 8-32 x 3/8" (2 used)
45	X-25-78	Washer, 1/4" (2 used)	..	231555	Kit, carburetor repair (consists of 200372, 200376, 200408, 200439 and 200443)
46	230722	Condenser			
47	X-81-1	Nut, hex., 1/4"-20			
48	X-20-1	Washer, lock, 1/4"			
49	A-230774	Valve cover assembly			

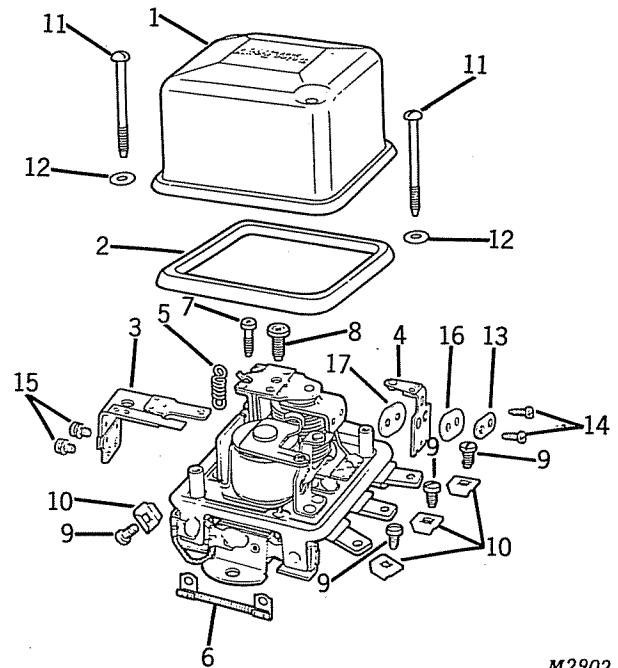
WIRING HARNESS AND ELECTRICAL SYSTEM



M 3453

Key	Part No.	Description
1	3H 1772	Bolt, cge., 5/16" x 1/2"
	14H 785	Nut, hex., 5/16"
2	3H 1063	Bolt, cge., 1/4" x 1/2"
	14H 786	Nut, hex., 1/4"
3	AM 30271 M	Cable, battery, 15" long with lead wire
4	AM 30051 M	Cable, battery, ground, 17" long
5	AM 30078 M	Regulator, voltage, complete
6	M 40157 M	Wire (regulator to motor-generator) (7-1/2" long)
7	19H 1227	Screw, cap, 1/4" x 1/2" (4 used)
	14H 786	Nut, hex., 1/4" (4 used)
	12H 302	Washer, lock, 1/4" (4 used)
8	AM 30181 M	Cable, motor-generator
9	AM 30182 M	Solenoid, complete
10	AM 30363 M	Harness, wiring
11	P 41858 H	Grommet, harness
12	AM 30076 M	Ignition and switch assembly with key
13	M 40718 M	Key (packed 2 in a pkg.)
14	M 41125	Boot, cable

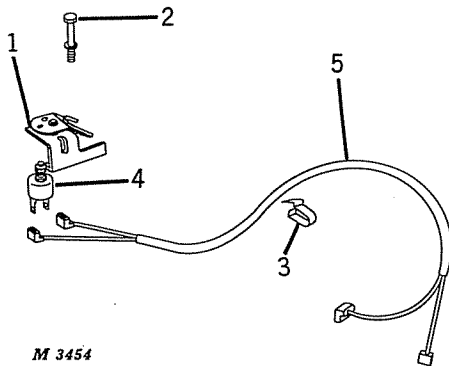
VOLTAGE REGULATOR (NEGATIVE GROUND 12V.)



M2902

Key	Part No.	Description
1	R 11168 R	Cover
2	R 11169 R	Gasket, cover
3	AH 14145 H	Armature, relay
4	AR 11035 R	Contact and support, regulator
5	R 11112 R	Spring, regulator armature
6	AR 11067 R	Resistor, "F" terminal to ground
7	R 11111 R	Screw, adjusting, relay armature
8	T 11662 T	Screw, regulator armature adjusting
9	R 11100 R	Screw, terminal (4 used)
10	R 11084 R	Clamp, terminal (4 used)
11	R 11170 R	Screw, cover (2 used)
12	R 11156 R	Washer, insulating cover screw (2 used)
13	R 11101 R	Washer, lock, regulator contact
14	R 11103 R	Screw, regulator contact (2 used)
15	AT 11339 T	Screw, adjusting, relay armature (2 used)
16	R 11114 R	Bushing, insulating regulator contact
17	R 11102 R	Washer, insulating regulator contact
..	AM 30078 M	Regulator, voltage, complete

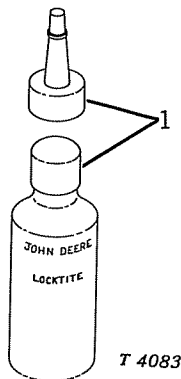
TRANSAXLE NEUTRAL-START SWITCH



M 3454

Key	Part No.	Description
1	AM 30364 M	Bracket, switch, neutral start
2	19H 1723	Screw, cap, 1/4" x 2-1/4" (2 used)
3	12H 297	Washer, int. tooth, 1/4" (2 used)
4	N 10025 N	Clip, harness
5	AM 30266 M	Switch, neutral start
	AM 30267 M	Harness, neutral start

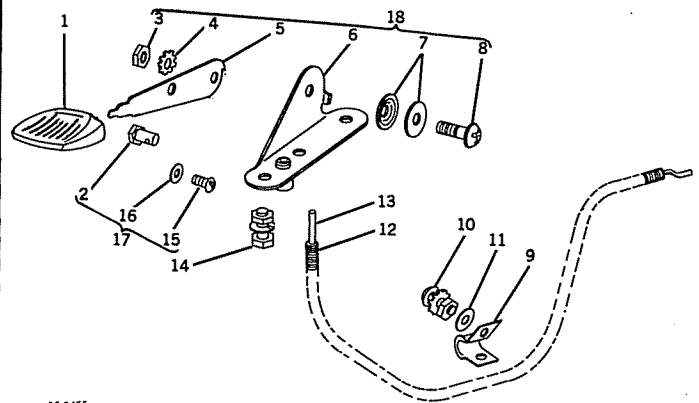
LOCTITE SEALANT



T 4083

Key	Part No.	Description
1	AT 14264 T	Sealant, loctite (approx. 2 fl. oz.)
	AT 14927 T	Sealant, loctite (2 cc. tube)

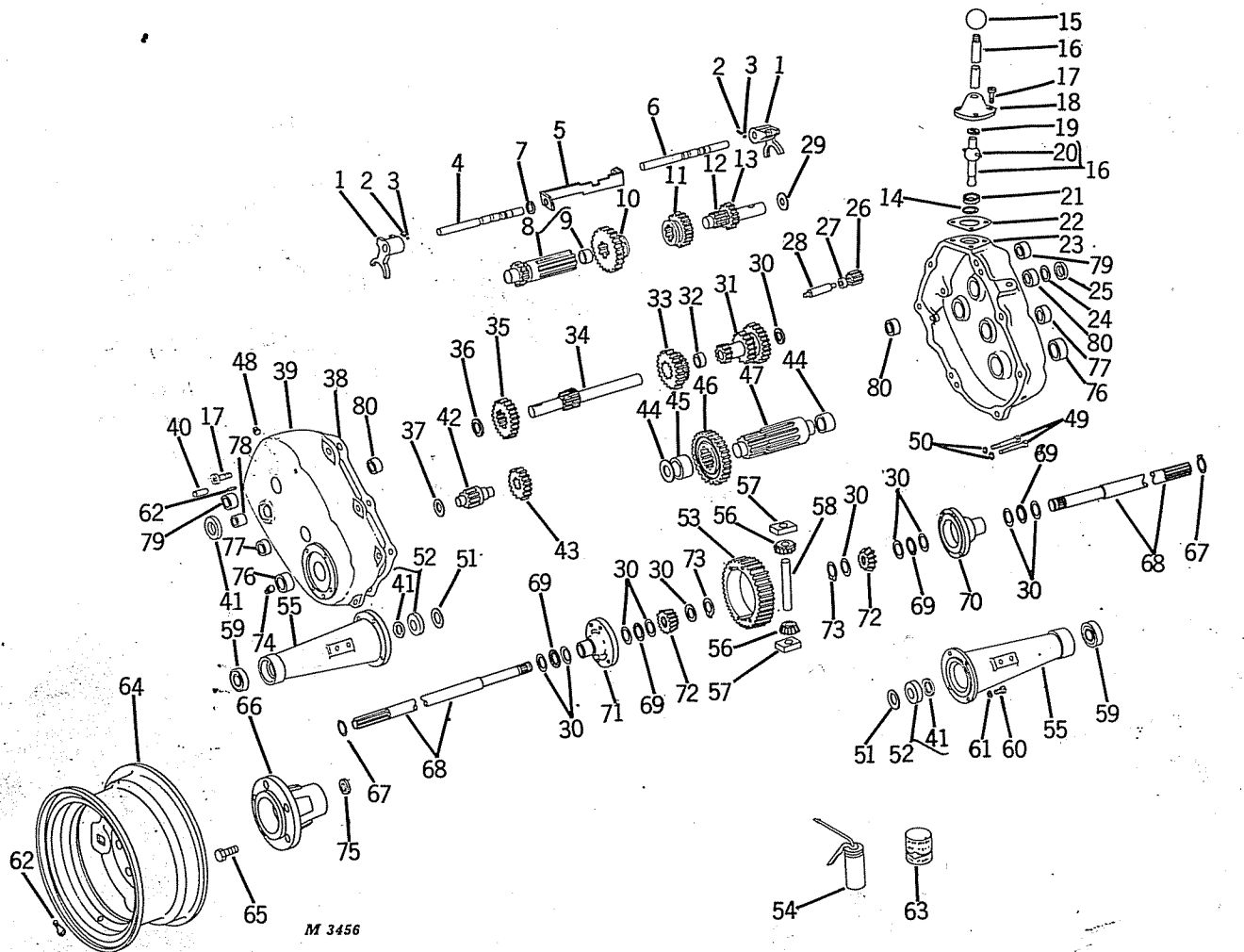
THROTTLE AND CHOKE CONTROL LEVERS



M 3455

Key	Part No.	Description
1	M 40153 M	Knob (packed 2 in a pkg.)
2	M 40435 M	Swivel (sub. AM30167M)
3	14H 860	Nut, hex., 1/4"-28
4	12H 297	Washer, int. tooth, 1/4"
5	M 40434 M	Lever, control (sub. AM30567)
6	AM 30183 M	Bracket, with button assembled (sub. AM30567)
7	M 40437 M	Washer, friction (sub. AM30567)
8	M 40436 M	Screw, mach., special, 1/4"-28 x 5/8" (sub. AM30567)
9	M 40012 M	Clip, conduit
10	21H 996	Screw, mach., rd. hd., no. 8 x 3/8" (2 used)
	14H 605	Nut, hex., no. 8 (2 used)
	12H 290	Washer, int. tooth, no. 8 (2 used)
11	24H 1283	Washer, 7/32" x 1/2" x no. 18 (2 used)
12	M 40694 M	Conduit 36-1/4" long (2 used)
13	M 40693 M	Wire, control 39-1/4" long (2 used)
	19H 1227	Screw, cap, 1/4" x 1/2" (4 used)
	14H 786	Nut, hex., 1/4" (4 used)
	12H 297	Washer, int. tooth, 1/4" (4 used)
15	21H 969	Screw, mach., rd. hd., no. 8, 3/2 x 1/4"
16	24H 17	Washer, 17/64" x 7/16" x no. 22
17	AM 30167 M	Kit (includes M40435M swivel, 24H1285 washer, and 21H969 screw)
18	AM 30567	Control lever and bracket, assembled

TRANSAXLE AND REAR WHEELS



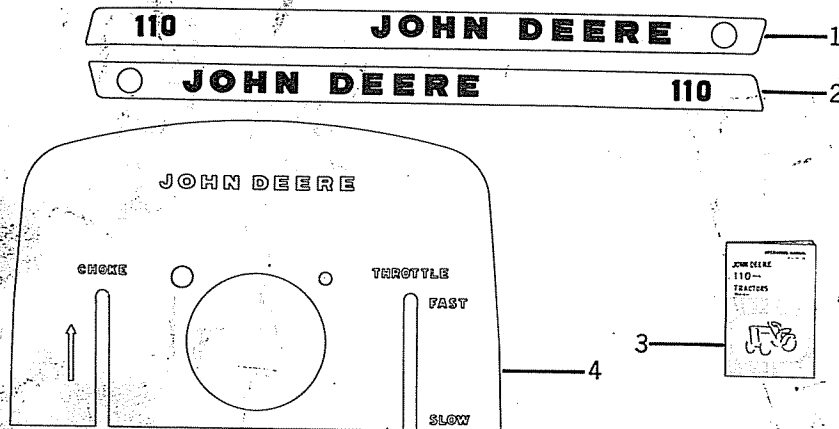
Key	Part No.	Description
1	M 11021 M	Fork, shifter (2 used)
2	M 40350 M	Spring (2 used) (packed 2 in a pkg.)
3	M 40351 M	Ball (2 used) (packed 2 in a pkg.)
4	M 41038	Rod, shifter (1st, 2nd and reverse speeds)
5	M 41031	Stop, shifter
6	M 41037	Rod, shifter (3rd and 4th speeds)
7	R 32507 R	Ring, snap, shifter rod
8	AM 30536	Shaft and gear, shifter with JD 8833 T needle bearing
9	JD 8833	Bearing, needle, input and shifter shaft
10	M 40358 M	Gear, shifter 26-T (1st, 2nd and reverse speeds)
11	M 40359 M	Gear, shifter 20-T (3rd and 4th speeds)
12	M 41034	Shaft and pinion, input
13	M 40361 M	Gear, input shaft, 16-T
14	M 41029	Ring, snap, shifter lever

Key	Part No.	Description
15	M 40005 M	Knob, shifter lever
16	M 41046	Lever, shifter
17	19H 2281	Screw, cap, socket head, 1/4" x 3/4" (11 used)
18	M 11102	Housing, shifter lever
19	M 41026	Seal, rubber
20	34H 79	Pin, roll, 3/16" x 1-1/4"
21	M 41045	Keeper, shifter lever
22	M 41048	Gasket, shifter lever housing
23	AM 30530	Case, transmission with bearings
24	JD 9325	Bearing, input shaft
25	M 41050	Seal, oil, input shaft, 1-5/8" O.D.
26	M 40373 M	Gear, idler, reverse
27	M 41047	Spacer, for reverse idler shaft 1-1/16" long
28	M 41043	Shaft, idler, reverse
29	JD 9825	Washer, thrust, 3/4" I.D. x 1-1/4" O.D.
30	JD 9824	Washer, thrust, 7/8" I.D. x 1-7/16" O.D. (13 used)

TRANSAXLE AND REAR WHEELS -- Continued

Key	Part No.	Description	Key	Part No.	Description
31	AM 30534	Gear, 3-cluster, with bushings	59	M 40357 M	Bearing, axle housing (2 used)
32	M 41039	Spacer, brake shaft, 15/32" long	60	19H 1900	Screw, cap, 5/16" x 3/4" (8 used)
33	AM 30535	Gear, 2-cluster, with bushings	61	12H 303	Washer, lock, 5/16" (8 used)
34	M 41035	Shaft and pinion, brake	62	AM 30347 M	Valve, tire, rear, with cap and stem (for 7" wheels with tubeless tires)
35	M 41042	Gear, idler, 30-T	63	AM 30200 M	Oil, transmission, 1/2 pint, 8 oz. can (0,200 imperial quarts, 0,237 litres) (8 cans used to fill transmission)
36	JD 9812	Washer, thrust, 1" I.D. x 1-1/2" O.D.	64	JD 1818 M	Wheel, rear, 5" rim (2 used)
37	M 40378 M	Washer, idler shaft	JD 1820 M	Wheel, rear, 7" rim (2 used)	
38	M 41030	Gasket, case and cover	65	JD 20	Bolt, wheel, 7/16" x 7/8" (6 used)
39	AM 30531	Cover, transmission, with bearings	66	M 11041	Hub, rear wheel (2 used)
40	M 41028	Pin, dowel (2 used) (packed 2 in pkg.)	67	M 40808 M	Ring, snap, hub (2 used) (packed 2 in a pkg.)
41	M 40676 M	Seal, oil, 1-1/2" O.D.	68	M 41032	Axle, R.H. or L.H. (2 used)
42	M 41040	Shaft and pinion, idler	69	JD 8875	Bearing, thrust (4 used)
43	M 41041	Gear, idler, 22-T	70	AM 30532	Carriage, axle, R.H. with bushing
44	M 41033	Washer, thrust, 15/16" I.D. x 1-1/2" O.D. (2 used) (packed 2 in a pkg.)	71	AM 30533	Carriage, axle, L.H. (tapped) with bushing
45	M 40377 M	Spacer, output shaft, 5/8" long	72	M 41064	Gear, bevel, axle (2 used) (packed 2 in a pkg.)
46	M 41044	Gear, output, 36-T	73	M 40514 M	Ring, snap, inner axle (2 used) (packed 2 in a pkg.)
47	M 41036	Shaft, output	74	M 41129	Plug, drain, magnetic
48	15H 623	Plug, pipe, 3/8" (2 used)	75	M 41132	Washer, take-up (4 used)
49	19H 2334	Screw, cap, 1/4" x 2-1/2" (4 used)	76	JD 8861	Bearing, needle, axle shaft (2 used) (2-1/8" O.D.)
50	12H 302	Washer, lock, 1/4" (4 used)	77	JD 9823	Bearing, needle, output shaft (2 used) (1-3/16" O.D.)
51	M 41027	O-ring (2 used) (packed 2 in a pkg.)	78	JD 8809	Bearing, needle, brake shaft (1-1/4" O.D.)
52	AM 30537	Retainer, axle, with seal (2 used) (packed 2 in a pkg.)	79	JD 8805	Bearing, needle, shifter shaft (1-1/8" O.D.)
53	M 41049	Gear, ring	80	JD 8801	Bearing, needle, idler shaft and idler pinion (3 used) (1" O.D.)
54	JD 93	Oiler, pump, all-purpose	..	AM 30380 M	Transaxle, complete, less hubs and wheels
55	M 11103	Housing, axle, R.H. or L.H. (2 used)			
56	M 40783 M	Pinion, bevel (2 used) (packed 2 in a pkg.)			
57	M 41128	Block, drive (2 used) (packed 2 in a pkg.)			
58	M 40381 M	Pin, drive, 3-5/16" long			

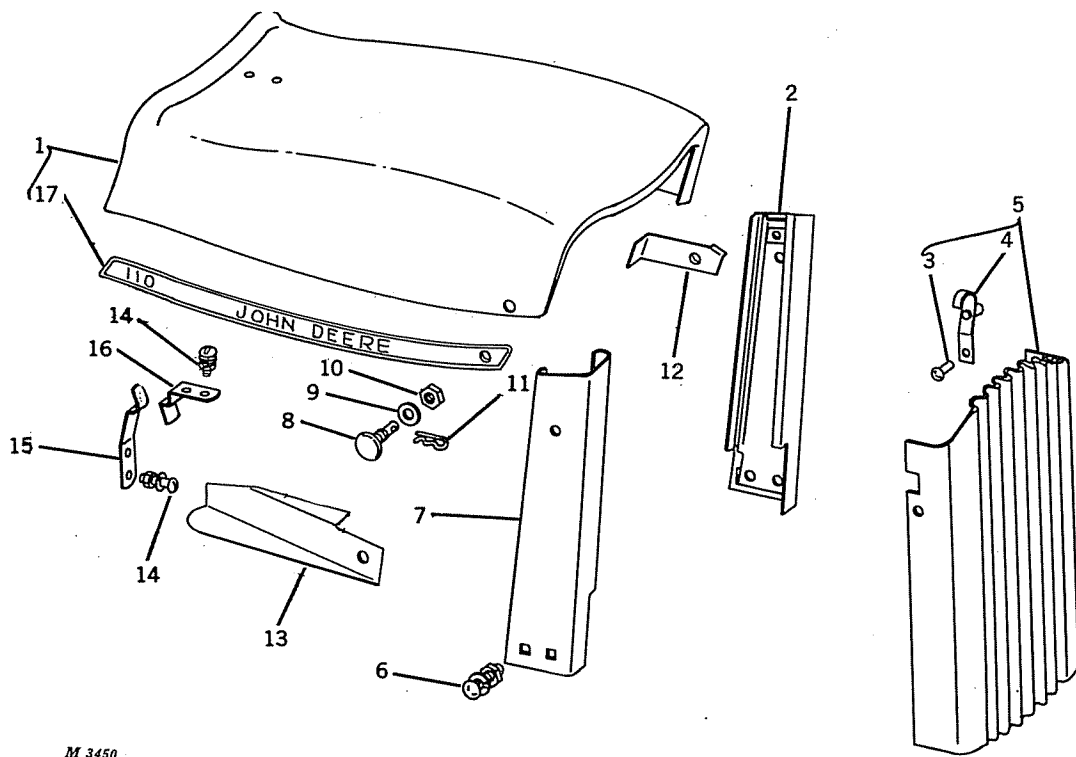
DECALCOMANIAS AND OPERATOR'S MANUAL



M 3458

Key	Part No.	Description	Key	Part No.	Description
1	M 40134 M	Decal, "110 John Deere", R.H.	3	OM-M40832	Manual, operators
2	M 40135 M	Decal, "John Deere 110", L.H.	4	M 40445 M	Decal, panel

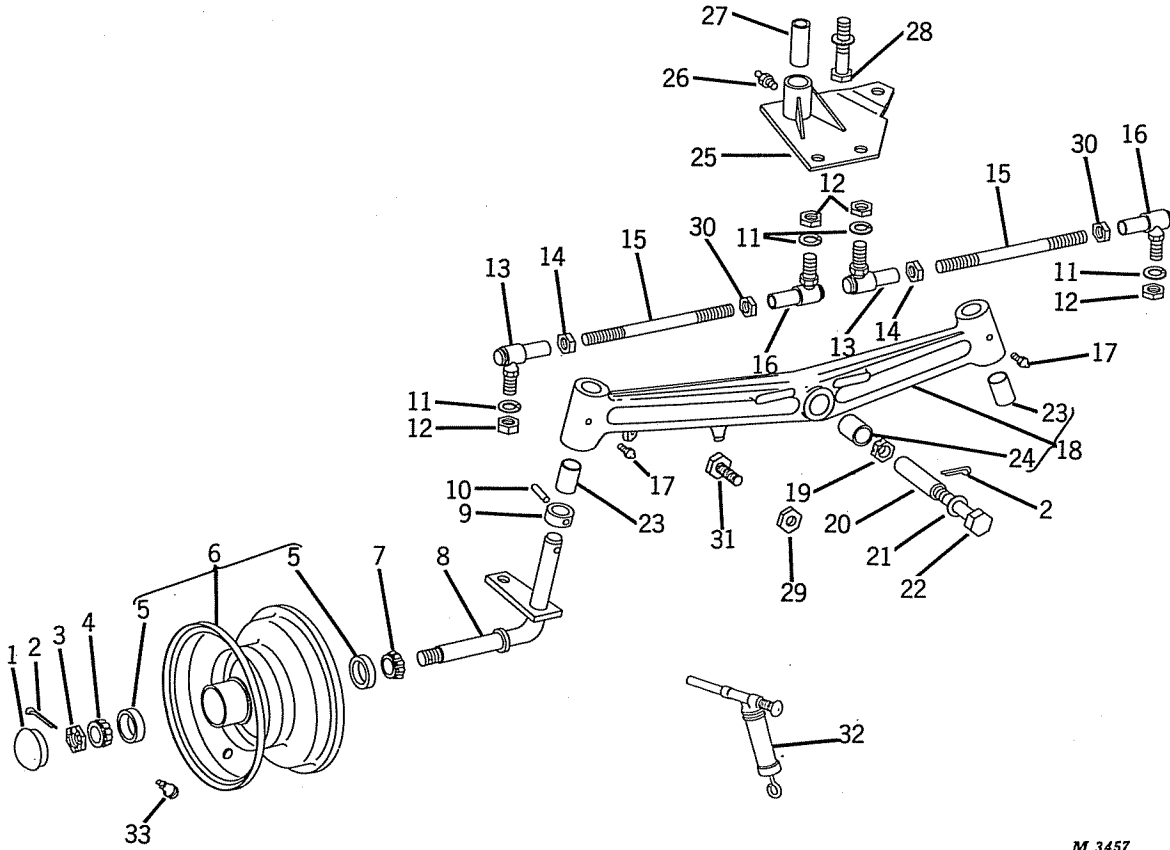
HOOD AND GRILLE ASSEMBLY



M 3450

Key	Part No.	Description	Key	Part No.	Description
1	AM 30278 M	Hood, with latch and decals	11	J 16931 N	Pin, spring locking (2 used)
2	AM 30355 M	Cowl, grille, L.H.	12	M 40734 M	Stop, hood, L.H.
3	16H 166	Rivet, truss hd., 5/32" x 1/4" (2 used)	13	M 40803 M	Shield, heat
4	AM 30170 M	Clip, spring, with stud (2 used)	14	21H 1020	Screw, mach., 3/16" x 1/2" (2 used)
5	AM 30063 M	Grille, with clips	14H 778		Nut, hex., 3/16" (2 used)
6	3H 1519	Bolt, cge., 3/8" x 1" (4 used)	12H 295		Washer, int. toothed, 3/16" (2 used)
	14H 812	Nut, hex., 3/8" (4 used)	15	M 40747 M	Spring, latch
	12H 304	Washer, lock, 3/8" (4 used)	16	M 40748 M	Latch, hood
7	AM 30354 M	Cowl, grille, R.H.	17	M 40134 M	Decal "110 John Deere", R.H. (shown)
8	M 40785 M	Pivot, hood (2 used)	M 40135 M		Decal, "John Deere 110", L.H.
9	12H 337	Washer, int., ext. tooth, 1/2" (2 used)			
10	14H 856	Nut, jam, hex., 1/2" (2 used)			

FRONT AXLE AND WHEELS

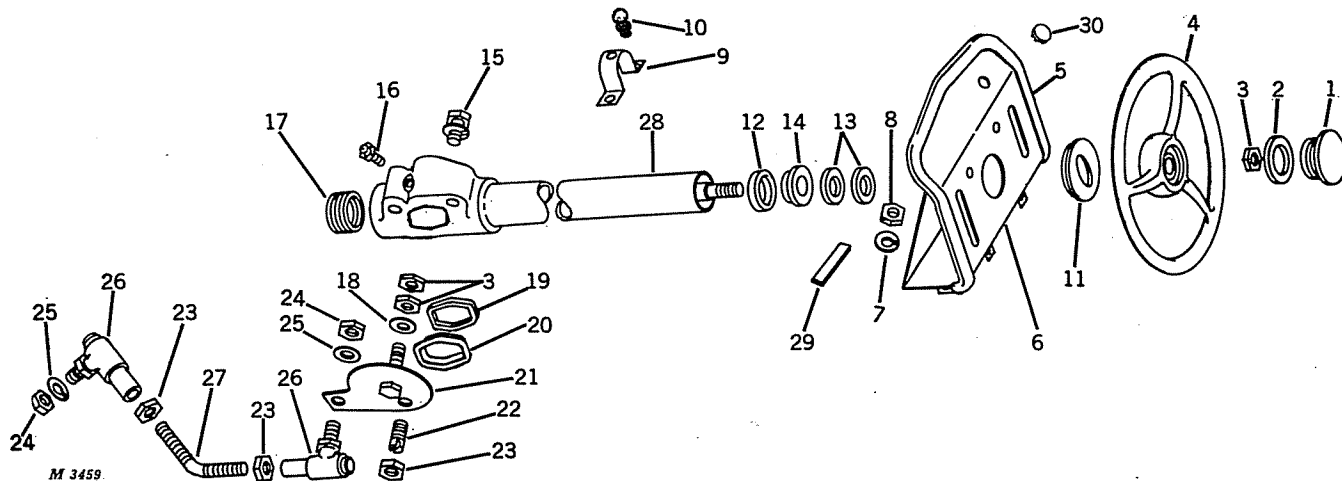


M 3457

Key	Part No.	Description
1	J 2375 M	Cap, spindle (2 used)
2	11H 237	Pin, cotter, 1/8" x 1-1/4" (2 used)
3	14H 531	Nut, slotted, hex., 5/8" (2 used)
4	JD 8188	Cone (2 used)
5	JD 8226	Cup (4 used)
6	AM 30088 M	Wheel, disk, front, 3-3/4" rim, with cups assembled
	AM 30264 M	Wheel, disk, front, 5-1/2" rim, with cups assembled
7	JD 8906	Cone, with seal (2 used)
8	AM 30010 M	Spindle, wheel, front, R.H. (shown)
	AM 30011 M	Spindle, wheel, front, L.H.
9	M 40044 M	Keeper, spindle (2 used)
10	34H 103	Pin, roll, 1/4" x 1-1/4" (2 used)
11	12H 301	Washer, lock, 1/2" (4 used)
12	14H 865	Nut, hex., 1/2" (4 used)
13	AM 30168 M	Joint, ball, assembly (R. H. threads) (2 used)
14	14H 856	Nut, jam, hex., 1/2" (2 used)
15	M 40043 M	Rod, tie, front (2 used)
16	AM 30169 M	Joint, ball, assembly (L.H. threads) (2 used)
17	JD 7759	Fitting, grease, straight, 1/8" (2 used)

Key	Part No.	Description
18	AM 30370 M	Axle, front, (M11042M) with bushings assembled
19	14H 522	Nut, slotted, hex., U.N.F., 1/2"
20	M 40712 M	Bearing, king pin
21	24H 1211	Washer, 9/16" x 1-3/8" x no. 12
22	M 40684 M	Bolt, king pin, U.N.F., 3-1/2" long
23	L 1314 C	Bushing, bronze (4 used)
24	P 1076 H	Bushing (2 used)
25	AM 30012 M	Arm, steering
26	JD 7797	Fitting, grease, straight, 1/4"
27	M 40020 M	Bearing, steering arm
28	19H 1820	Screw, cap, 1/2" x 3"
	12H 301	Nut, hex., 1/2"
29	14H 826	Nut, jam, hex., 1/2"
30	14H 881	Nut, jam, hex., 1/2" (L.H. thread) (2 used)
31	19H 1793	Screw, cap, 1/2" x 2" (In steering stop)
32	JD 5804	Lubrigun
33	AM 30346 M	Valve, tire, front with cap and stem (for 5-1/2" wheels with tubeless tires)

STEERING SHAFT ASSEMBLY

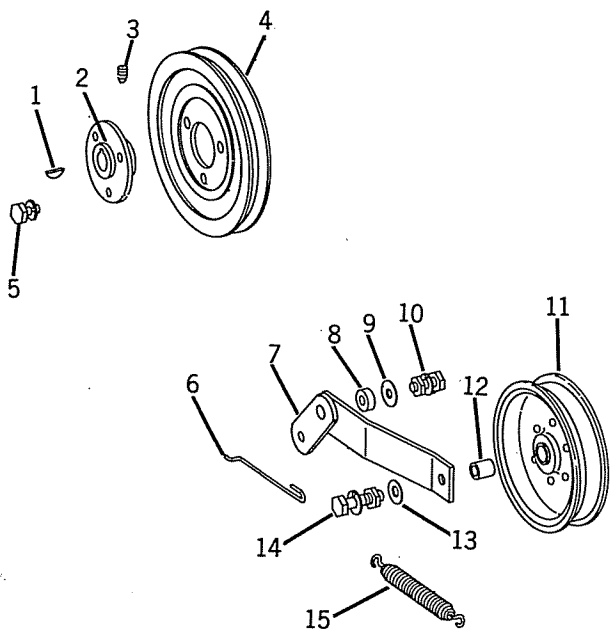


M 3459

Key	Part No.	Description
1	M 40010 M	Emblem, steering wheel
2	B 3690 R	O-ring
3	14H 866	Nut, jam, hex., 5/8" (3 used)
4	M 40008 M	Wheel, steering
5	M 40175 M	Channel, panel edge, 24" long
6	AM 30254 M	Panel
7	12H 303	Washer, lock, 5/16" (4 used)
8	14H 785	Nut, hex., 5/16" (4 used)
9	M 40704 M	Clamp, steering column
10	19H 1900	Screw, cap, 5/16" x 3/4" (2 used)
11	M 40154 M	Grommet, steering column
12	M 40408 M	Retainer, bearing
13	M 40410 M	Washer, felt (2 used)
14	M 40409 M	Spacer, bearing
15	19H 1936	Screw, cap, 3/8" x 3/4" (3 used)
	12H 304	Washer, lock, 3/8" (3 used)

Key	Part No.	Description
16	JD 7844	Fitting, grease, drive, 1/4"
17	M 40407 M	Plug, adjusting
18	24H 1365	Washer, 21/32" x 9" x no. 13
19	M 40405 M	Seal, lever arm
20	M 40406 M	Retainer, seal
21	AM 30176 M	Arm, lever, with cross bolt
22	M 40404 M	Stud, taper
23	14H 856	Nut, jam, hex., 1/2"
24	14H 865	Nut, hex., 1/2"
25	12H 301	Washer, lock, 1/2" (2 used)
26	AM 30168 M	Joint, ball, R.H. thread (2 used)
27	M 40146 M	Link, drag
28	AM 30093 M	Column, steering assembly, complete with seals and lever arm
29	M 40708 M	Channel, panel, 3" long
30	T 16738 T	Button, plug

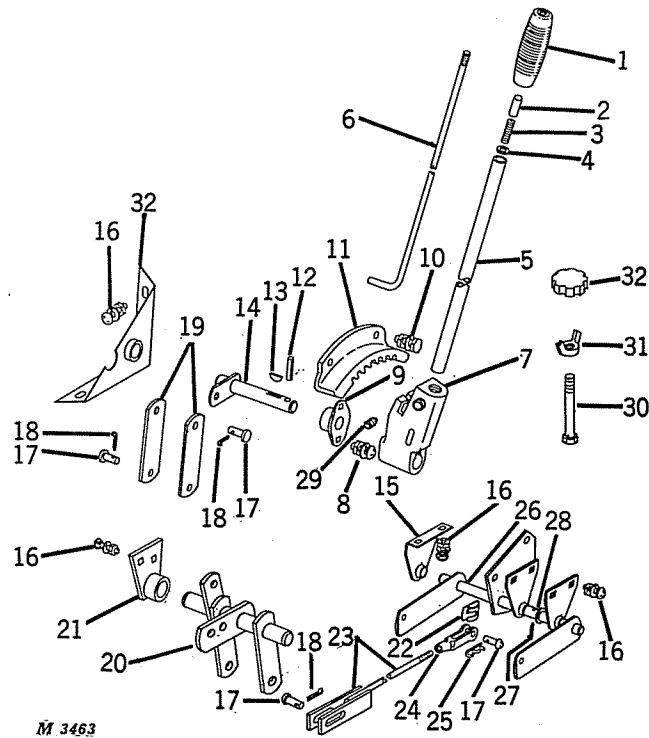
IDLER ASSEMBLY



M 3460

Key	Part No.	Description
1	26H 14	Key, Woodruff, 3/16" x 3/4"
2	M 11040 M	Hub, sheave
3	22H 587	Screw, set, cup point, hex. socket, 3/8" x 7/16"
4	M 40798 M	Sheave, transaxle
5	19H 1900	Screw, cap, 5/16" x 3/4" (3 used)
	12H 303	Washer, lock, 5/16" (3 used)
6	M 40816 M	Link, spring
7	AM 30369 M	Arm, idler
8	M 40815 M	Bearing, idler arm
9	24H 1176	Washer, 13/32" x 1-1/4" x no. 13
10	19H 1732	Screw, cap, 3/8" x 1-1/4"
	14H 732	Nut, jam, hex., 3/8"
	12H 304	Washer, lock, 3/8"
11	AP 24917 H	Sheave, idler, with bearings
12	M 40129 M	Spacer, idler
13	24H 1308	Washer, plain, 13/32" x 1" x no. 13 (3 used)
14	19H 1765	Screw, cap, 3/8" x 1-3/4"
	14H 812	Nut, hex., 3/8"
	12H 304	Washer, lock, 3/8"
15	M 40460 M	Spring

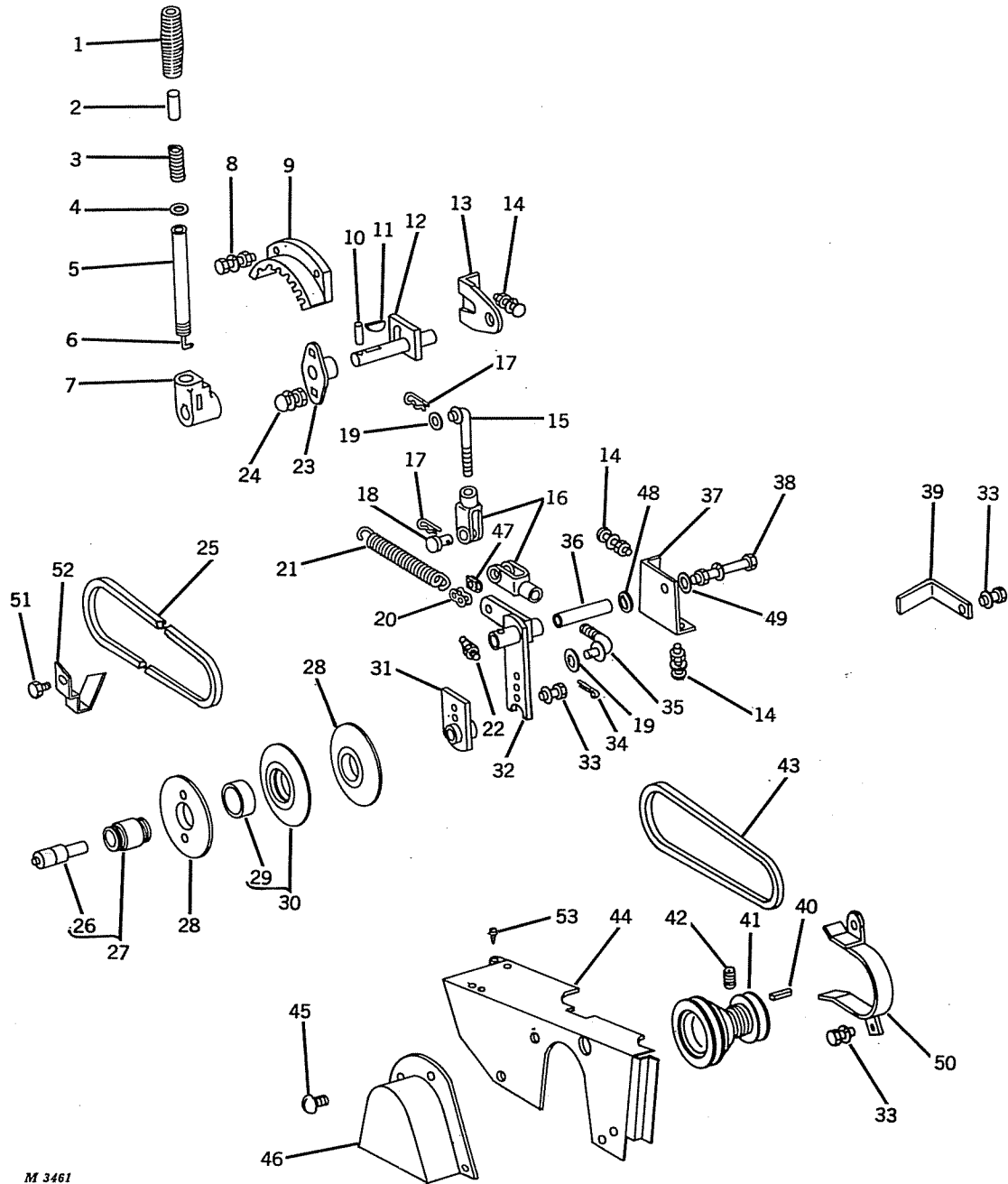
ATTACHMENT LIFT LEVER



M 3463

Key	Part No.	Description	Key	Part No.	Description
1	M 40011 M	Grip, handle	16	3H 1539	Bolt, cge., 5/16" x 5/8" (10 used)
2	M 40067 M	Release, thumb (packed 2 in a pkg.)		14H 785	Nut, hex., 5/16" (10 used)
3	R 359 FN	Spring		12H 303	Washer, lock, 5/16" (10 used)
4	M 40065 M	Washer, spring	17	M 40753 M	Pin, drilled, 3/8" x 1-1/4" (3 used)
5	M 40830 M	Lever, lift, 20" long	18	11H 234	Pin, cotter, 7/64" x 3/4" (3 used)
6	M 40831 M	Rod, release, 20-1/4" long	19	M 40738 M	Link, lift (2 used)
7	M 11043 M	Hub, lever	20	AM 30274 M	Shaft, lift, lower
8	3H 1268	Bolt, cge., 5/16" x 3/4" (2 used)	21	AM 30258 M	Bearing, lift, lower
	14H 785	Nut, hex., 5/16" (2 used)	22	M 40749 M	Clip, for yoke (packed 5 in a pkg.)
	12H 303	Washer, lock, 5/16" (2 used)	23	AM 30382 M	Rod, lift
9	M 11002 M	Housing, bearing	24	L 324 T	Yoke, connecting
10	19H 1900	Screw, cap, 5/16" x 3/4" (2 used)	25	J 16931 N	Pin, spring locking
	14H 785	Nut, hex., 5/16" (2 used)	26	AM 30374 M	Shaft, lift, rear
	12H 303	Washer, lock, 5/16" (2 used)	27	11H 218	Pin, cotter, 3/16" x 1-1/4"
11	M 11004 M	Quadrant, lever	28	24H 1391	Washer, 25/32" x 1-3/8" x no. 16
12	34H 79	Pin, roll, 3/16" x 1-1/4"	29	22H 36 A	Screw, set, cup pt., 5/16" x 1/2"
13	26H 14	Key, woodruff, 3/16" x 3/4"	30	19H 2418	Screw, cap, 3/8" x 3-3/4"
14	AM 30018 M	Shaft, lift, upper	31	M 40838 M	Nut, wing, 3/8"
15	M 40025 M	Bearing, lift, rear	32	M 41001	Knob, lift stop

GROUND SPEED CONTROL

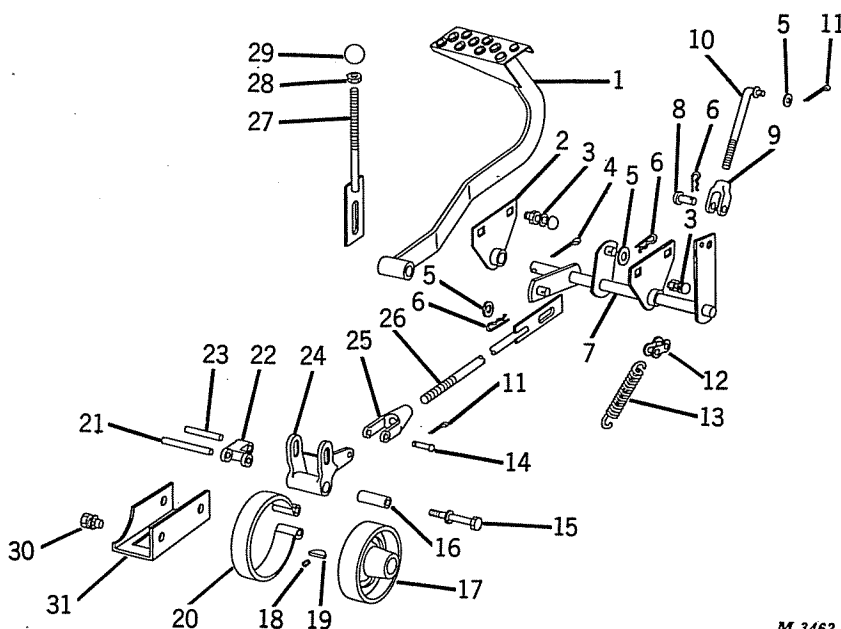


M 3461

Key	Part No.	Description	Key	Part No.	Description
1	M 40011 M	Grip, handle	15	AM 30028 M	Rod, linkage, variable
2	M 40067 M	Release, thumb (packed 5 in a pkg.)	16	L 324 T	Yoke
3	R 359 FN	Spring	17	J 16931 N	Pin, spring locking (2 used)
4	M 40065 M	Washer	18	M 40753 M	Pin, drilled, 3/8" x 1-1/4" (2 used)
5	M 40069 M	Lever, speed control	19	24H 1303	Washer, 13/32" x 11/16" x no. 16
6	M 40068 M	Rod, speed control	20	AP 19993 H	Link, spring
7	M 11003 M	Hub, lever	21	M 40826 M	Spring, variator and clutch
8	19H 1900	Screw, cap, 5/16" x 3/4" (2 used)	22	JD 7797	Fitting, grease, straight, 1/4"
	14H 785	Nut, hex., 5/16" (2 used)	23	M 11002 M	Housing, bearing
	12H 303	Washer, lock, 5/16" (2 used)	24	3H 1268	Bolt, cge., 5/16" x 3/4" (2 used)
9	M 11004 M	Quadrant, lever		14H 785	Nut, hex., 5/16" (2 used)
10	34H 79	Pin, roll, 3/16" x 1/4"		12H 303	Washer, lock, 5/16" (2 used)
11	26H 14	Key, Woodruff, 3/16" x 3/4"	25	M 40016 M	Belt, secondary
12	AM 30023 M	Shaft, speed control	26	JD 9294	Bearing and shaft assembly
13	M 40025 M	Bracket, shaft	27	AM 30172 M	Hub and bearing, variator, assembly
14	3H 1539	Bolt, cge., 5/16" x 5/8" (6 used)	28	M 11012 M	Sheave, half, outer variator (2 used)
	14H 785	Nut, hex., 5/16" (6 used)			
	12H 303	Washer, lock, 5/16" (6 used)			

Key	Part No.	Description	Key	Part No.	Description
29	M 40161 M	Bearing, center sheave variator (sub. AM30082M assembly)	40	M 40109 M	Key, sheave, engine
30	AM 30082 M	Sheave, center, with bearing assembled	41	M 11039 M	Sheave, drive, engine
31	AM 30081 M	Support, bearing	42	22H 814	Screw, set, cup point, hex. socket, 1/2" x 1/2"
32	AM 30024 M	Arm, variator	43	M 40015 M	Belt, primary
33	19H 1936	Screw, cap, 3/8" x 3/4" (2 used)	44	AM 30187 M	Guard, belt
	12H 304	Washer, lock, 3/8" (2 used)	45	P 461 M	Screw, thumb, 5/16" (4 used)
34	11H 206	Pin, cotter, 3/32" x 3/4"	46	AM 30190 M	Guard, belt, PTO
35	AM 30501	Rod, clutch	47	M 40749 M	Clip, (2 used) (packed 5 in a pkg.)
36	M 40336 M	Ferrule	48	R 375 R	O-ring
37	M 40055 M	Bracket, pivot	49	M 40691 M	Washer, spring (packed 5 in a pkg.)
38	19H 2228	Screw, cap, 3/8" x 4"	50	AM 30186 M	Guide, primary belt
	T 11234 T	Nut, stop, elastic, 3/8"	51	M 40834 M	Screw, self tapping, 1/4" x 1/2"
	24H 1305 A	Washer, 13/32" x 13/16" x no. 16	52	M 40833 M	Guide, secondary belt
39	M 40119 M	Guide, belt, drive	53	M 40733 M	Screw, self-tapping (packed 5 in a pkg.)

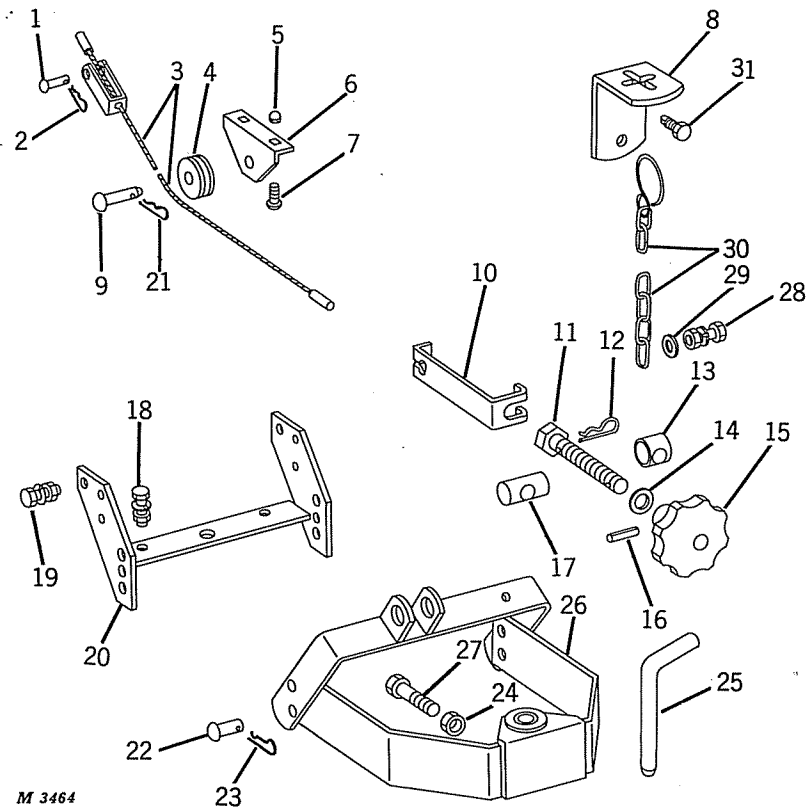
CLUTCH AND BRAKE ASSEMBLY



M 3462

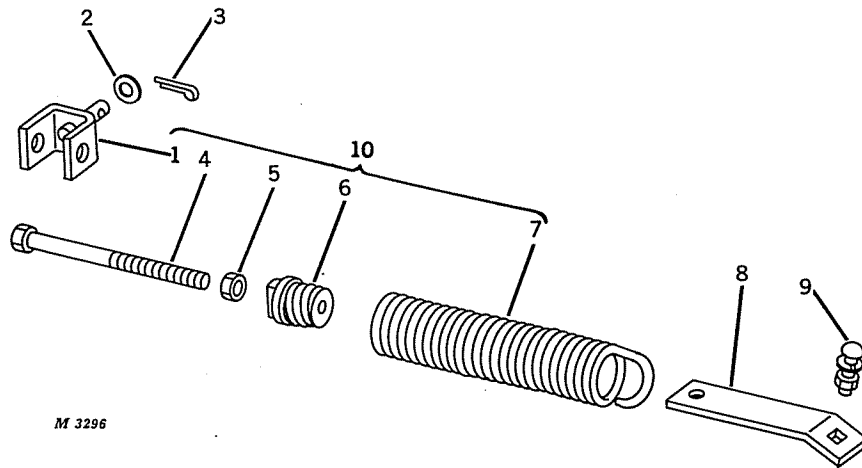
Key	Part No.	Description	Key	Part No.	Description
1	AM 30033 M	Pedal, clutch and brake	16	M 40117 M	Pivot, brake arm
2	M 40078 M	Bracket, L.H.	17	M 11007 M	Pulley, brake
3	3H 1268	Bolt, cge., 5/16" x 3/4" (4 used)	18	22H 587	Screw, set, cup point, hex. socket, 3/8" x 7/16"
	14H 785	Nut, hex., 5/16" (4 used)	19	26H 14	Key, Woodruff, 3/16" x 3/4"
	12H 303	Washer, lock, 5/16" (4 used)	20	AM 30058 M	Band, brake
4	34H 103	Pin, roll, 1/4" x 1-1/4"	21	34H 105	Pin, roll, 1/4" x 1-1/2" (2 used)
5	24H 1303	Washer, 13/32" x 11/16" x no. 16	22	M 11009 M	Arm, brake (2 used)
6	J 16931 N	Pin, spring locking	23	M 40118 M	Pin, brake, 1/4" x 1-31/32"
7	AM 30273 M	Shaft, clutch, and brake	24	M 11010 M	Lever, brake
8	M 40753 M	Pin, drilled, 3/8" x 1-1/4"	25	L 299 T	Yoke, brake
9	L 324 T	Yoke, clutch	26	AM 30039 M	Rod, brake
10	AM 30501	Rod, clutch	27	AM 30272 M	Rod, brake release, 5/16"
11	11H 234	Pin, cotter, 7/64" x 3/4"	28	M 40699 M	Nut, elastic stop, 5/16" (packed 5 in a pkg.)
12	AP 19993 H	Link, spring	29	M 40723 M	Knob, brake release, 5/16" tap
13	M 40826 M	Spring	30	19H 1936	Screw, cap, 3/8" x 3/4"
14	U 11004 U	Pin, drilled, 5/16" x 15/16"		12H 273	Washer, int. tooth, 3/8"
15	19H 1944	Screw, cap, 3/8" x 2-3/4"	31	M 40796 M	Bracket, brake lever
	12H 273	Washer, int. tooth, 3/8"			

INTEGRAL HITCH



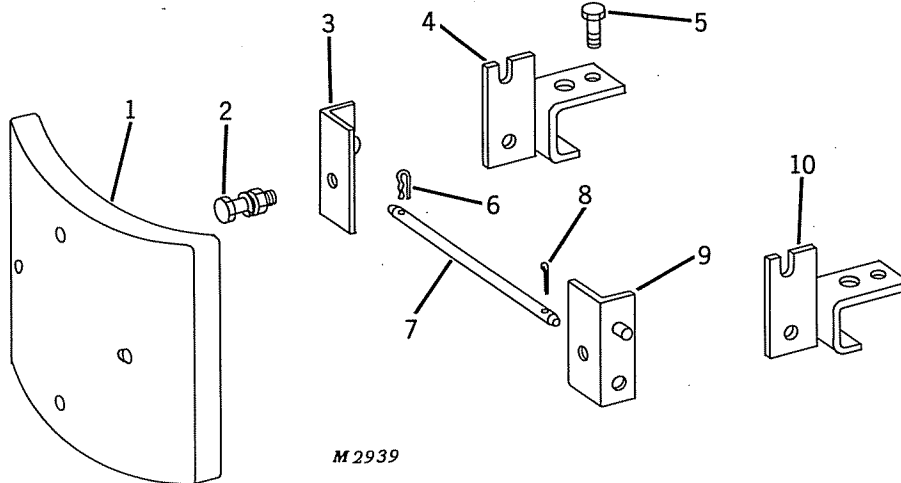
Key	Part No.	Description	Key	Part No.	Description
1	M 40753 M	Pin, drilled, 3/8" x 1-1/4"	19	19H 1731	Screw, cap, 3/8" x 1" (2 used)
2	J 16931 N	Pin, spring locking	14H	812	Nut, hex., 3/8" (2 used)
3	AM 30542	Cable, 3/16" x 14-3/4" long	12H	304	Washer, lock, 3/8" (2 used)
4	J 2436 M	Pulley	20	AM 30222 M	Frame, mounting
5	14H 4871	Nut, cap, 5/16" (2 used)	21	11H 234	Pin, cotter, 7/64" x 3/4"
6	M 40557 M	Bracket, pulley	22	M 41073	Pin, drilled, 1/2" x 1-1/2" (2 used)
7	3H 1539	Bolt, cge., 5/16" x 5/8" (2 used)	23	A 3581 R	Pin, spring locking (2 used)
8	M 41071	Bracket, transport	24	14H 821	Nut, jam, hex., 5/8" (2 used)
9	B 561 M	Pin, drilled, 7/16" x 1-5/8"	25	M 40697 M	Pin, hitch
10	M 41068 M	Link, lift	26	AM 30544 M	Drawbar and yoke
11	M 40548 M	Bolt, drilled, 5/8" x 6"	27	19H 1987	Screw, cap, 5/8" x 1-1/2" (2 used)
12	M 40461 M	Pin, spring locking	28	19H 1849	Screw, cap, 5/16" x 1-1/4"
13	M 40549 M	Sleeve, centering	19H	785	Nut, hex., 5/16"
14	24H 1365	Washer, 21/32" x 1" x no. 13 (2 used)	12H	303	Washer, lock, 5/16"
15	M 11030 M	Wheel, hand	29	24H 1305	Washer, 13/32" x 13/16" x No. 16
16	34H 79	Pin, roll, 3/16" x 1-1/4"	30	AM 30543	Chain and hook, transport
17	M 40547 M	Pin, pivot, threaded	31	M 40806	Screw, thread cutting, 3/8" x 7/8" (2 used)
18	19H 1732	Screw, cap, 3/8" x 1-1/4" (2 used)			
	14H 812	Nut, hex., 3/8" (2 used)			
	12H 304	Washer, lock, 3/8" (2 used)			

HELPER SPRING FOR 36 SNOW THROWER, 42 FRONT BLADE AND INTEGRAL HITCH 53



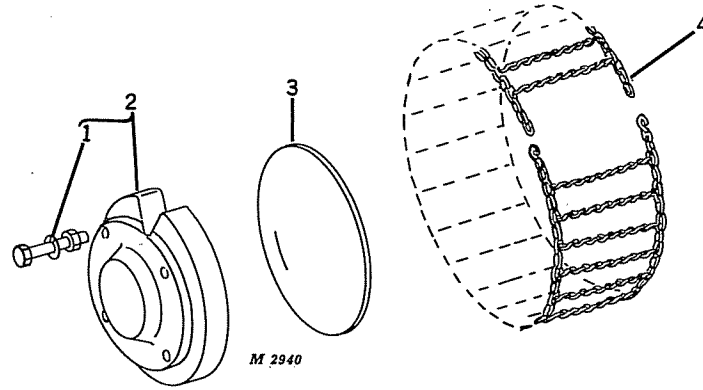
Key	Part No.	Description	Key	Part No.	Description
1	AM 30205 M	U-clip	8	M 40511 M	Strap, spring
2	24H 1325	Washer, 15/32" x 59/64" x no. 16	9	3H 1268	Bolt, cge., 5/16" x 3/4"
3	11H 239	Pin, cotter, 5/32" x 1"	14H	785	Nut, hex., 5/16"
4	19H 2295	Screw, cap, 3/8" x 5-1/2"	12H	303	Washer, lock, 5/16"
5	14H 812	Nut, hex., 3/8"	10	AM 30213 M	Spring, helper, assembly, less strap
6	M 11017 M	Nut, spring			
7	M 40515 M	Spring, helper			

110 TRACTOR FRONT AND REAR END WEIGHTS



Key	Part No.	Description	Key	Part No.	Description
1	M 11029 M	Weight, front and rear end	4	AM 30231 M	Bracket, weight, rear end, L.H.
2	19H 1831	Screw, cap, 1/2" x 2" (2 used)	5	M 40806 M	Screw, thread cutting, 3/8" x 7/8" (2 used)
	19H 1945	Screw, cap, 1/2" x 3-1/4" (2 used dual weights)	6	M 40461 M	Pin, spring locking
	14H 809	Nut, hex., 1/2" (2 used)	7	M 40232 M	Pin, draft, 1/2" x 11-5/16" long
	12H 301	Washer, lock, 1/2" (2 used)	8	11H 239	Pin, cotter, 5/32" x 3/4"
3	AM 30216 M	Bracket, weight, front end, R.H.	9	AM 30217 M	Bracket, weight, front end, L.H.
			10	AM 30230 M	Bracket, weight, rear end, R.H.

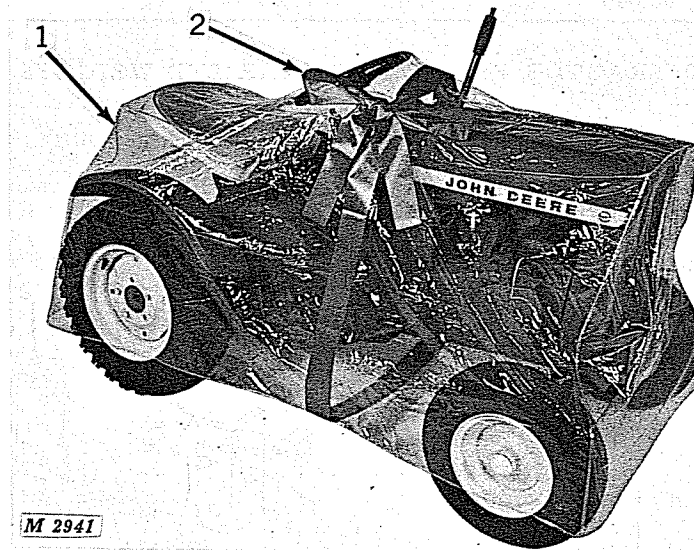
HUB CAPS, REAR WHEEL WEIGHTS AND TIRE CHAINS



Key	Part No.	Description
1	19H 2123	Screw, cap, 1/2" x 4-1/4" (2 used)
	8H 4226	Bolt, mach., 1/2" x 6-1/2" (2 used dual weights)
	14H 809	Nut, hex., 1/2"
	12H 301	Washer, lock, 1/2"
2	BM 15021 M	Weight, rear wheel, 59 lbs. with attaching hardware (2 used) (sub. for M11028M)

Key	Part No.	Description
3	M 40518 M	Cap, hub, front wheel (chrome)
	M 40519 M	Cap, hub, rear wheel (chrome)
4	BM 15004 M	Chains, rear wheel (bag of two for 6.00 x 12 tires)
	BM 15018 M	Chains, rear wheel (bag of two for 8.00 x 12 tires)

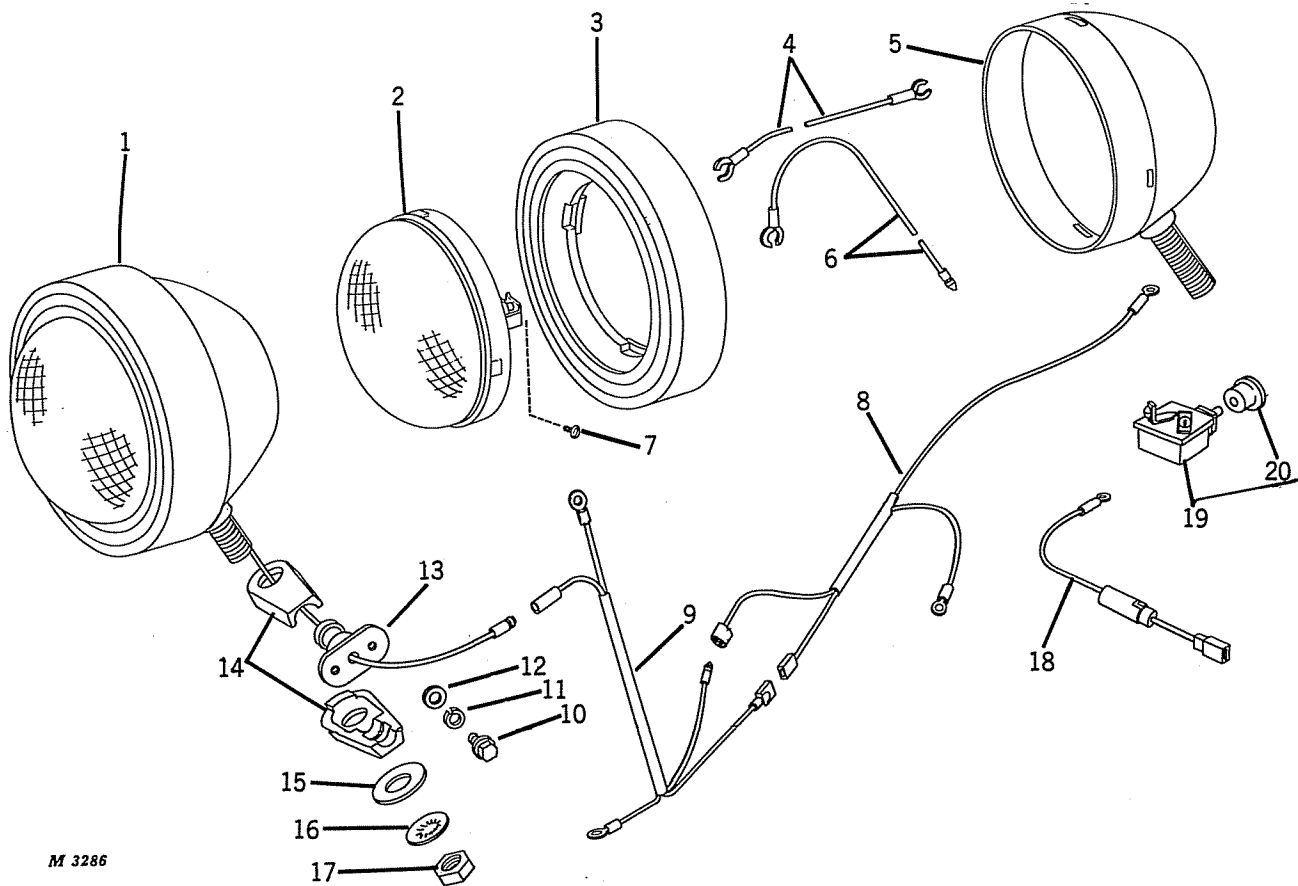
CLEAR PLASTIC COVER AND RED DISPLAY RIBBON



Key	Part No.	Description
1	BM 15006 M	Cover, plastic (for 110 tractor)

Key	Part No.	Description
2	BM 15014 M	Ribbon, display, red, 2-3/4" wide x 180" long

HEADLIGHTS

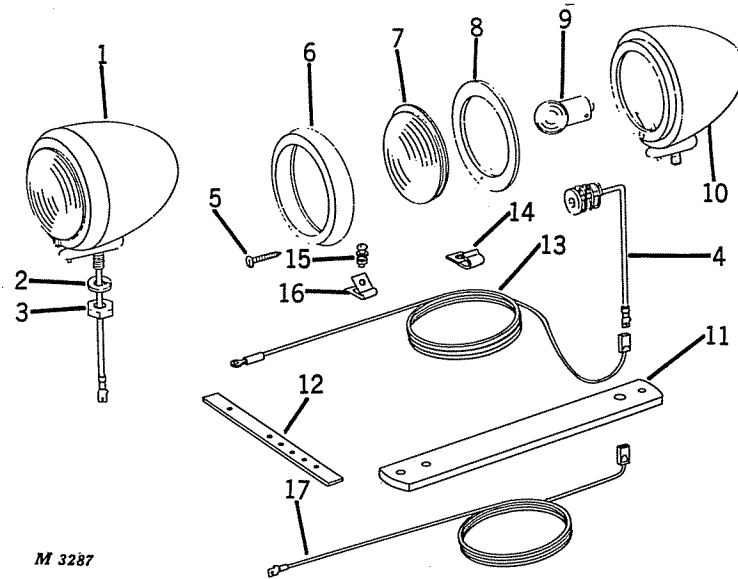


M 3286

Key	Part No.	Description
1	AT 11935 T	Lamp, front (2 used)
2	AR 21059 R	Bulb, seal beam 12-16 volt, 35 watts (2 used)
3	R 31250 R	Molding, rubber (Guide) (2 used)
	R 30182 R	Molding, rubber (Hobbs) (2 used)
4	Wire, ground (sub. AT11935T) (2 used)
5	Body, lamp (sub. AT11935T) (2 used)
6	AT 14770 T	Wire, lead (Guide) (2 used)
	AT 14771 T	Wire, lead (Hobbs) (2 used)
7	R 11100 R	Screw, lead and ground wire to bulb (2 used)
8	AM 30320 M	Harness, wiring, secondary (switch to headlights)
9	AM 30321 M	Harness, wiring, primary (headlights)

Key	Part No.	Description
10	T 19179 T	Screw, special, 3/8" x 5/8" (4 used)
11	12H 304	Washer, lock, 3/8" (4 used)
12	24H 1305	Washer, 13/32" x 13/16" x no. 16 (4 used)
13	T 19178 T	Bracket, mounting (2 used)
14	R 27460 R	Clamp, half (4 used)
15	24H 1111	Washer, 17/32" x 1-1/16" x no. 13 (2 used)
16	12H 292	Washer, int. tooth, 1/2" (2 used)
17	14H 809	Nut, hex., 1/2" (2 used)
18	AM 30319 M	Wire, lead, fused
19	AM 30317 M	Switch, light with knob complete
20	AM 30318 M	Knob, with set screw

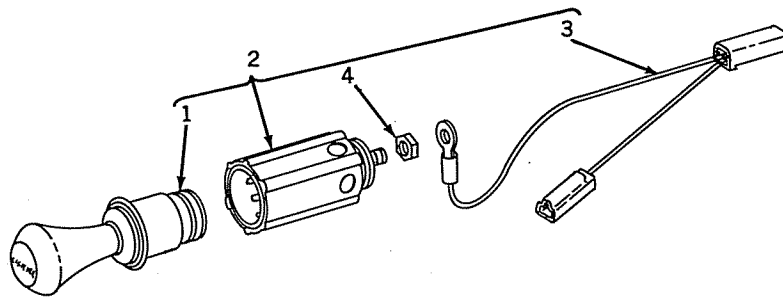
TAIL LIGHT



M 3287

Key	Part No.	Description	Key	Part No.	Description
1	AT 11883 T	Light, rear	11	M 40751 M	Bracket, cab
2	12H 303	Washer, lock, 5/16"	12	E 1855 M	Strap, rubber, (3 used)
3	14H 650	Nut, hex., 5/16"	13	AM 30325 M	Wire, lead, 58-1/2" long
4	AT 13546 T	Wire, lead	14	N 10011 N	"J"-clamp (2 used)
5	A 2729 R	Screw, molding	15	21H 1017	Screw, mach., 3/16" x 3/8" (2 used)
6	AT 13545 T	Molding	14H 778		Nut, hex., 3/16" (2 used)
7	T 15270 T	Lens	12H 295		Washer, int. tooth, 3/16" (2 used)
8	T 15271 T	Gasket	16	M 40012 M	Clip, lead (2 used)
9	AT 12948 T	Bulb, 12-16 volt, 6 C.P., single contact (packed 2 in a pkg.)	17	AM 30322 M	Extension, tail light, 53" long
10	Body (sub. AT11883T)			

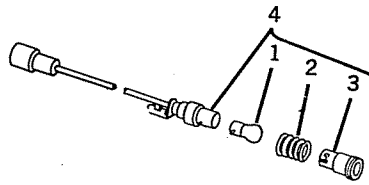
CIGARETTE LIGHTER



T 5823

Key	Part No.	Description	Key	Part No.	Description
1	AA 5787 R	Element	3	AT 15823 T	Wire, lead
2	AT 15543 T	CIGARETTE LIGHTER ATTACHMENT	4	14H 605	Nut, hex., no. 8

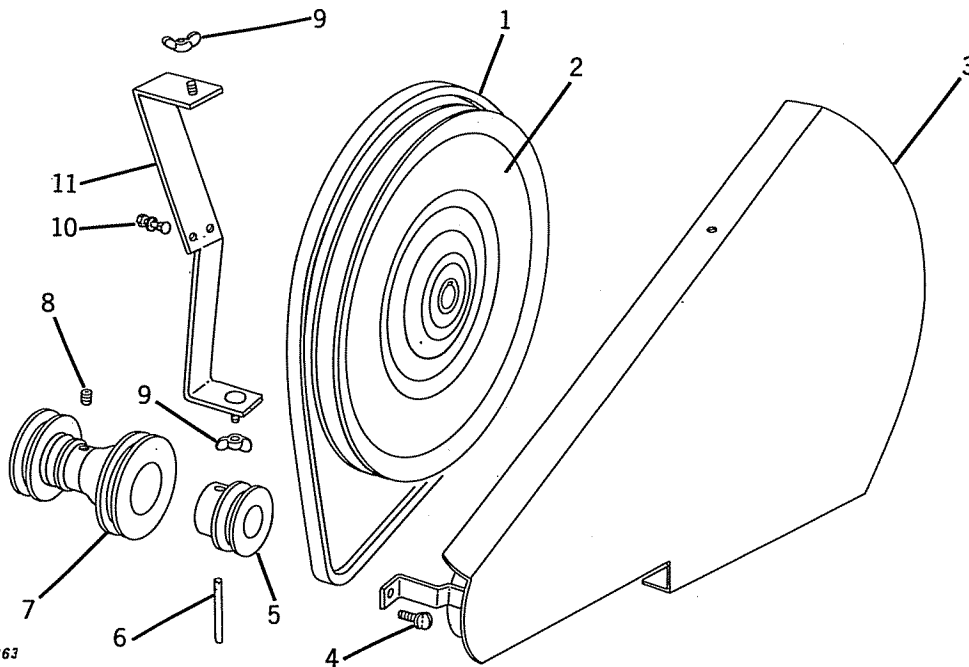
GENERATOR INDICATOR LAMP



M 3465

Key	Part No.	Description	Key	Part No.	Description
1	R 30379 R	Bulb	3	AR 29615 R	Lens, generator
2	R 30378 R	Spring	4	AT 17927 T	Lamp, indicator, generator

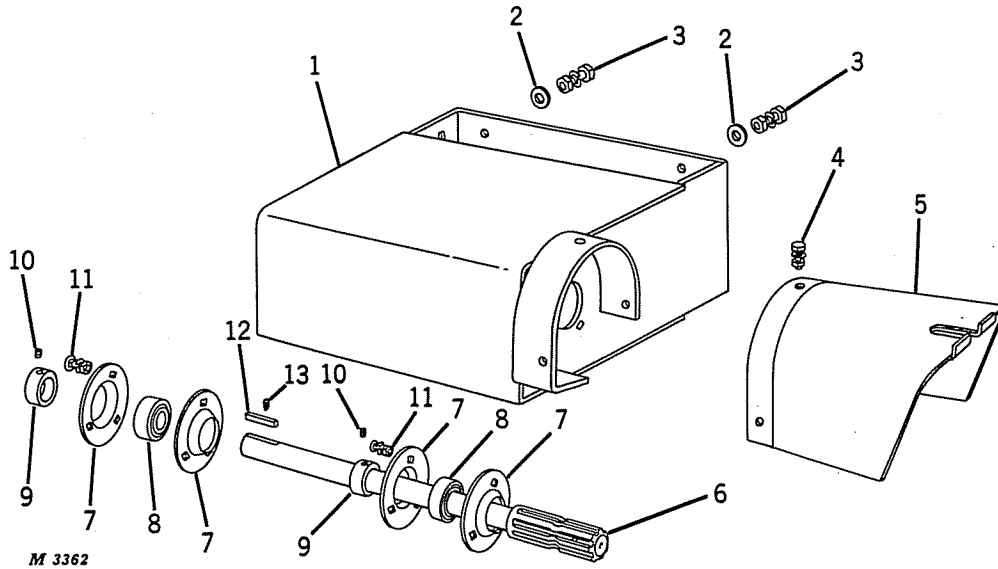
PTO DRIVE SHEAVES



M 3363

Key	Part No.	Description	Key	Part No.	Description
1	M 40757 M	V-Belt	9	14H 844	Nut, wing, 1/4" (2 used)
2	AM 30344 M	Sheave, PTO, 18"	10	3H 1519	Bolt, rd. hd., 3/8" x 1" (2 used)
3	AM 30339 M	Shield, sheave		14H 812	Nut, hex., 3/8" (2 used)
4	F 461 M	Screw, thumb		12H 304	Washer, lock, 3/8" (2 used)
5	M 11038 M	Sheave, drive, PTO	11	AM 30338 M	Bracket, shield
6	M 40827 M	Pin, drive, 1/4" x 2-3/4"			
7	M 11039 M	Sheave, engine, drive			
8	22H 821	Screw, set, cup pt., hex. socket, 1/2" x 1/2"			

PTO BACKPLATE AND DRIVE SHAFT ASSEMBLY



M 3362

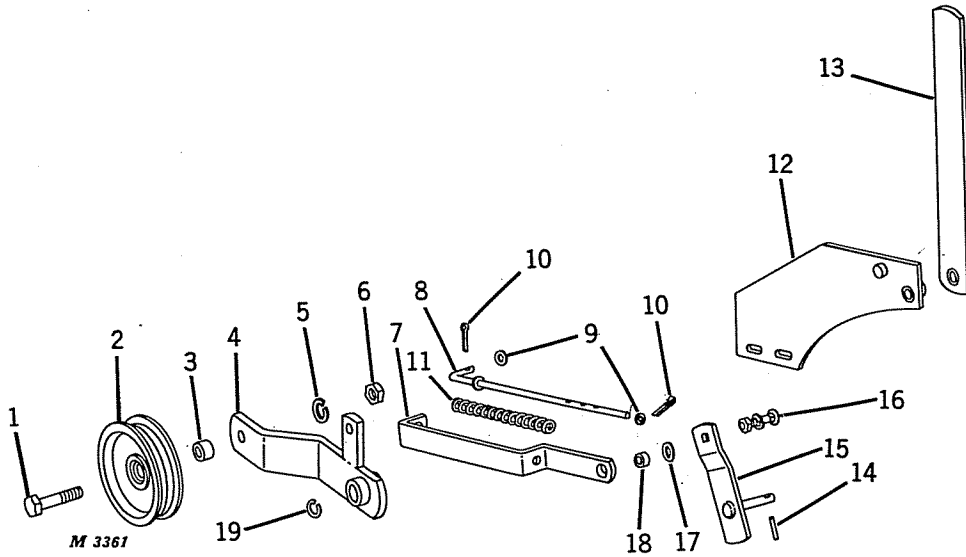
Key	Part No.	Description
1	AM 30342 M	Plate, back
2	24H 1308	Washer, 13/32" x 1" x no. 10 (4 used)
3	19H 1731	Screw, cap, 3/8" x 1" (4 used)
	14H 812	Nut, hex., 3/8" (4 used)
	12H 304	Washer, lock, 3/8" (4 used)
4	19H 1813	Screw, cap, 5/16" x 5/8" (3 used)
	14H 785	Nut, hex., 5/16" (3 used)
	12H 303	Washer, lock, 5/16" (3 used)
5	J 18813 C	Guard, PTO
6	AM 30343 M	Shaft, drive, PTO
7	L 1921 C	Flange, bearing (4 used)

Key	Part No.	Description
8	JD 8555	Bearing (2 used)
9	JD 8554	Collar, locking (2 used)
10	22H 558	Screw, set, cup pt., hex. socket, 1/4" x 1/4" (2 used)
	11 3H 1268	Bolt, rd. hd., 5/16" x 3/4" (6 used)
	14H 785	Nut, hex., 5/16" (6 used)
	12H 303	Washer, lock, 5/16" (6 used)
12	E 10174 E	Key, shaft
13	22H 776	Screw, set, cup pt., hex. socket, 5/16" x 7/16"

Parts listed below are not illustrated.

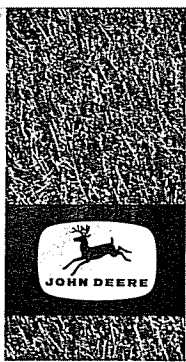
JD 262	Decal, "Leaping Deer"
M 40824 M	Decal, "Caution"

PTO IDLER AND THROW-OUT ASSEMBLY



Key	Part No.	Description
1	19H 1777	Screw, cap, 1/2" x 1-3/4"
2	AM 30194 M	Sheave, idler
3	M 40509 M	Spacer
4	AM 30341 M	Arm, idler
5	12H 301	Washer, lock, 1/2"
6	14H 809	Nut, hex., 1/2"
7	M 40299 M	Bracket, spring rod
8	AM 30146 M	Rod, spring
9	24H 1136	Washer, 11/32" x 11/16" x no. 16 (2 used)
10	11H 211	Pin, cotter, 1/8" x 3/4" (2 used)

Key	Part No.	Description
11	M 40300 M	Spring, compression
12	AM 30337 M	Bracket, pivot
13	AM 30334 M	Lever, throw-out
14	34H 77	Pin, roll, 3/16" x 1"
15	AM 30336 M	Arm, throw-out
16	3H 1709	Bolt, rd. hd., 5/16" x 1"
	14H 786	Nut, hex., 5/16"
	12H 303	Washer, lock, 5/16"
17	24H 1341	Washer, 17/32" x 15/16" x no. 16 (2 used)
18	28H 86	Spacer
19	P 46127 H	Ring, snap



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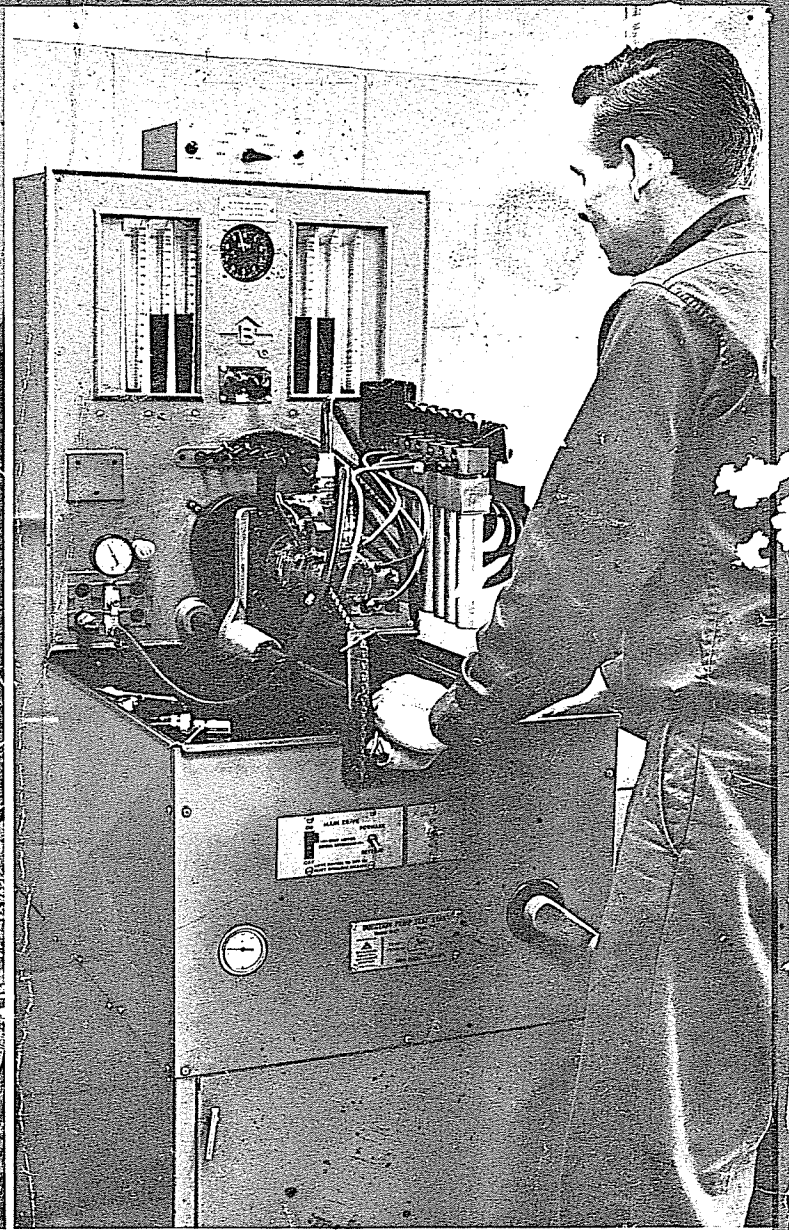
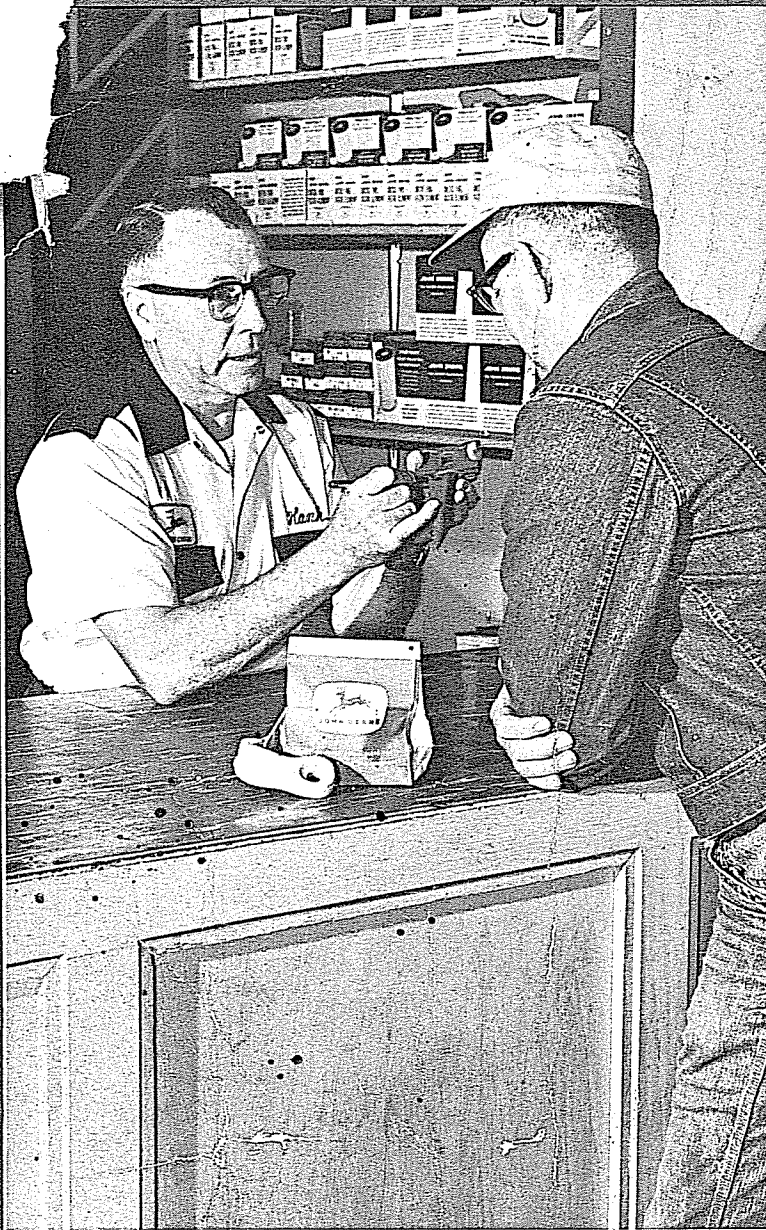
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