

Simplicity[®]

SYSTEM 3005

WONDERBOY, 5 HP, with 26-Inch Rotary Mower, MFG. NO. 1690124

ELECTRIC STARTER KIT, MFG. NO. 1600312

REAR MOUNTED GRASS CATCHER, MFG. NO. 1600383

ADAPTER KIT, GRASS CATCHER, MFG. NO. 1600331

COUNTERWEIGHT, MFG. NO. 1600351

REAR WHEEL WEIGHT, MFG. NO. 1600012

OPERATOR'S MANUAL

SAFETY PRECAUTIONS TO PROTECT YOURSELF AND OTHERS

IMPORTANT

OPERATION

Know the controls and how to stop quickly - **READ THE OPERATORS MANUAL.**

Do not allow children to operate vehicle. Do not allow adults to operate it without proper instruction.

Do not carry passengers. **KEEP CHILDREN AND PETS A SAFE DISTANCE AWAY.**

Clear work area of objects which might be picked up and thrown.

Take all possible precautions when leaving vehicle unattended; such as disengaging power-take-off, lowering attachments, shifting into neutral, setting parking brake, stopping engine and removing key.

Do not stop or start suddenly when going uphill or downhill. Mow up and down the face of steep slopes; never across the face.

Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.

Stay alert for holes in terrain and other hidden hazards.

Use care when pulling loads or using heavy equipment.

- A. Use only approved drawbar hitch points.
- B. Limit loads to those you can safely control.
- C. Do not turn sharply. Use care when backing.
- D. Use counterweight (s) or wheel weights when suggested in operators manual.

Watch for traffic when crossing or near roadways.

Keep all nuts, bolts, and screws tight to be sure equipment is in safe working condition.

Do not change engine governor settings or overspeed engine.

Do not operate equipment when barefoot or wearing open sandals. Always wear substantial footwear.

FUEL AND FIRE HAZARDS

Handle gasoline with care -- it is highly flammable.

- A. Use approved gasoline container.
- B. Never remove cap or add gasoline to a running or hot engine or fill fuel tank indoors. Wipe up spilled gasoline.

C. Open doors if engine is run in garage -- exhaust fumes are dangerous. Do not run engine indoors.

Never store equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark.

Allow engine to cool before storing in any enclosure.

To reduce fire hazard keep engine free of grass, leaves or excessive grease.

ATTACHMENTS

Disengage all attachment clutches and shift into neutral before attempting to start engine.

Disengage power to attachments and stop engine before leaving operator position.

Disengage power to attachment (s) and stop engine before making any repairs or adjustments.

Disengage power to attachments when transporting or not in use.

When using any attachments never direct discharge of material toward bystanders or allow anyone near vehicle while in operation.

Keep vehicle and attachments in good operating condition and keep safety devices in place. Use guards as instructed in operators manual.

Vehicle and attachments should be stopped and inspected for damage after striking a foreign object and the damage should be repaired before restarting and operating the equipment.

When using vehicle with mower:

- (1) Mow only in daylight or in good artificial light.
- (2) Never make a cutting height adjustment while engine is running if operator must dismount to do so.
- (3) Shut engine off when removing grass catcher and/or unclogging chutes.
- (4) Check blade mounting bolts for proper tightness at frequent intervals.

Check grass catcher bags frequently for wear or deterioration. Replace with new bags for safety protection.

IMPORTANT



CAUTION

1. Keep all shields in place.
2. Before leaving operator's position:
 - Shift transmission to neutral.
 - Set parking brake.
 - Disengage attachment clutch.
 - Shut off engine.
 - Remove ignition key.
3. Wait for all movement to stop before servicing machine.
4. Keep people and pets a safe distance away from machine.

TABLE OF CONTENTS

	Page
SAFETY PRECAUTIONS	Inside Cover
WARRANTY	1
OPERATION	2
ADJUSTMENTS	6
MAINTENANCE	9
OFF SEASON STORAGE	14
TROUBLESHOOTING	14
SPECIFICATIONS	15
ACCESSORIES	16
PARTS LISTINGS	
COUNTERWEIGHT	19
WHEEL WEIGHT	19
FRAME & FRONT WHEEL STEERING GROUP	20
TRANSMISSION GROUP	22
BRAKE GROUP	24
ENGINE, SEAT, & REAR WHEEL GROUP	26
WIRING	28
12 VOLT STARTER KIT	29
MOWER GROUP	30
REAR MOUNTED GRASS CATCHER	32
FILMS & DECALS	34

SIMPLICITY'S NEW EQUIPMENT WARRANTY

The Company warrants Simplicity products to be free from defects in material and workmanship, except the Company makes no warranty, express or implied, with respect to tires, engines, generators and voltage regulators, which are warranted by their respective manufacturers. Any part covered by this warranty which is proven defective within one year (45 days for equipment used for rental, municipal or commercial purposes) under normal use, from date of purchase, will be replaced without charge, provided such part is returned to the factory, (if requested), and is found to be defective upon examination at the factory. This warranty does not apply to any Simplicity products altered outside of the Simplicity factory. THE FOREGOING WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, PERFORMANCE, OR OTHERWISE. The Company's obligation under its warranty is strictly and exclusively limited to the replacement of such parts, and in no event shall the Company be liable for any other damages, whether direct, immediate, incidental, special, or consequential. Simplicity Manufacturing Company, Inc., reserves the right to modify or change specifications without prior notification. There are no warranties which extend beyond the description of any Simplicity product.

OPERATION

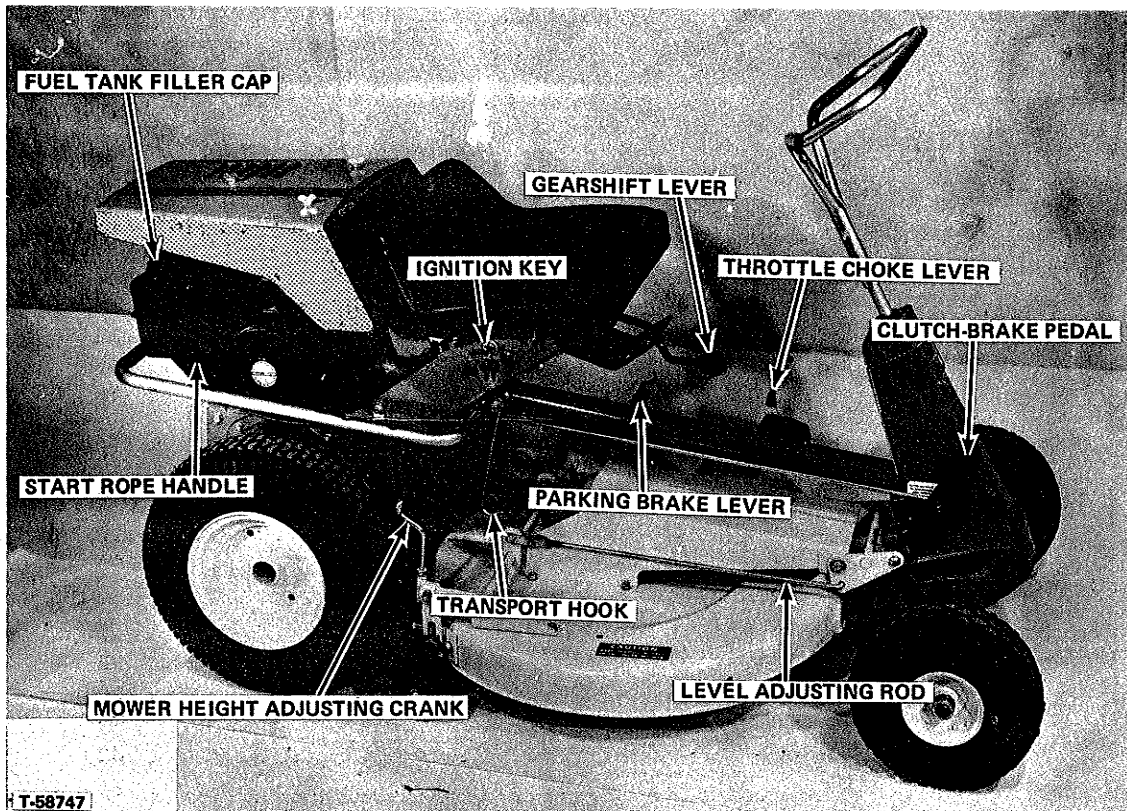


FIGURE 1

CONTROLS (See Figures 1 and 2)

Before starting the engine acquaint yourself with all of the controls and how they work.

1. Clutch-Brake Pedal - As pedal is pushed forward, the belt drive to transmission is disengaged. Further forward motion of the pedal tightens the brake. The pedal must be fully depressed to stop the unit before shifting gears.
2. Transport Hook - When transporting mower from place to place, the rear of mower should be lifted and transport hook placed under height adjusting rod.
3. Mower Height Adjusting Crank - Raises and lowers the mower at both front and rear. Turn the handle clockwise to raise and counter-clockwise to lower.
4. Gear Shift Lever - The gear shift pattern for the two forward and one reverse speed is shown on the lever support bracket under front of seat. This lever also has a safety interlock switch and must be in the neutral position to start engine.
5. Throttle and Choke Lever - Move lever entirely forward to actuate choke and start engine. Move lever rearward to open choke when engine starts. Moving further to rear slows engine. For mowing, lever should be set at 3/4 to full throttle.
6. Ignition Switch - Is located on tractor frame under right side of seat. Key must be turned to "On" to permit engine to start. Turning key to "Off" stops the engine.
7. Starter Rope Handle - When starting engine, pull starter rope handle smoothly but rapidly to the rear. DO NOT release handle to let rope snap back into starter cover, hold handle as rope is drawn back in.

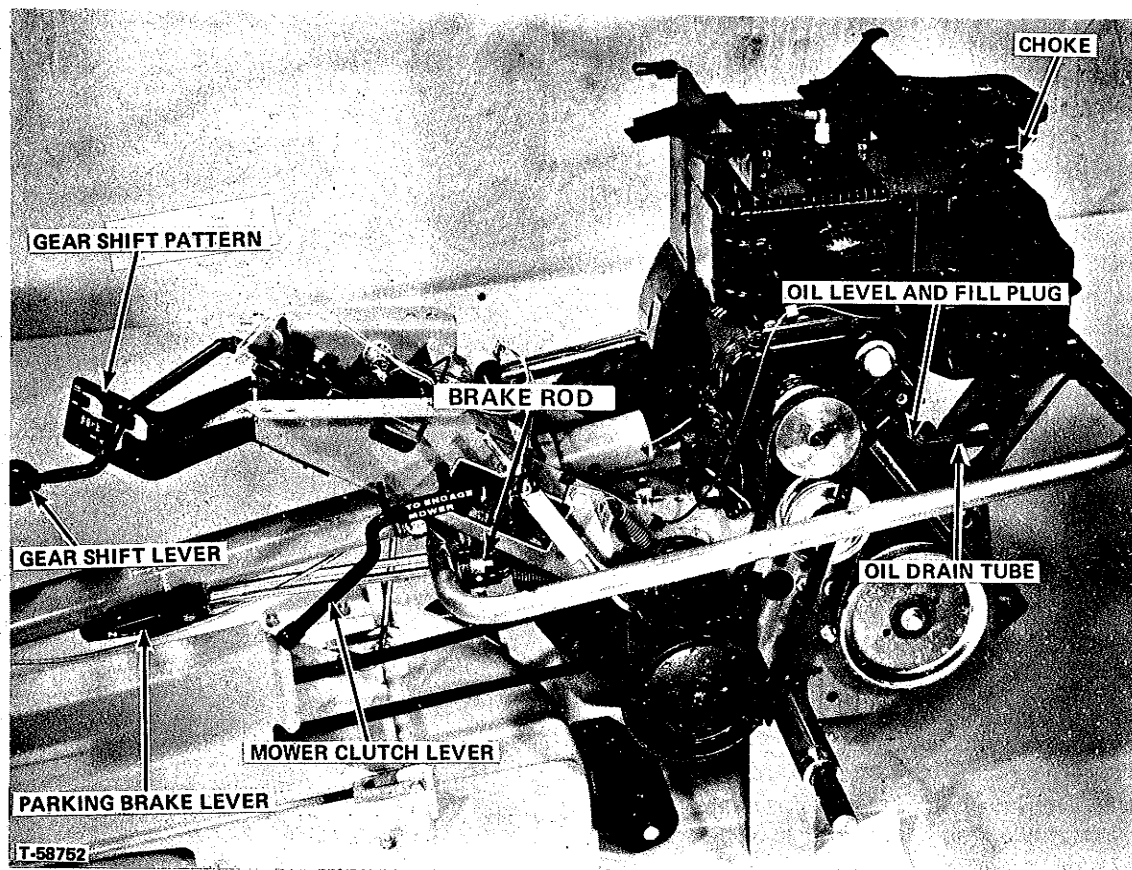


FIGURE 2 - Wheel and Shields Removed for Visibility

8. Choke, - is located at rear of engine and can be operated by hand using the throttle lever.

BEFORE STARTING

WARNING

STUDY THE SAFETY precautions and follow all of them when operating this tractor and mower.

9. Parking Brake Lever - The parking brake lever should be pulled up to the vertical position as shown to lock the brake. (See Figure 1).

10. Mower Clutch Lever - Pulling the front of mower clutch lever up engages the mower drive belt, pushing it down disengages the mower drive. A safety interlock switch requires that the mower clutch lever be in the disengaged position in order to start the engine.

1. Read the engine operator's manual thoroughly.

2. See Figure 3. Remove the engine crankcase filler cap at rear of engine. Oil level should be up to top of rear edge of tube from which cap was removed. If not, add oil as required. **NOTE:** Use only a high quality detergent oil classified as "SC" or "SD" of 10W-30 grade.

3. See Figure 3. Remove the fuel tank filler cap and fill tank with clean, fresh "REGULAR" grade gasoline using a can with a flexible spout. **DO NOT** use premium gasoline. **DO NOT** mix oil with gasoline.

WARNING

Gasoline is highly flammable, DO NOT fill fuel tank when engine is running or hot. Avoid over filling and wipe up any spilled fuel. DO NOT allow open flame or smoking in the area of refueling.

STARTING ENGINE, MANUAL START

1. Place gear shift lever in neutral, place mower clutch lever down in the fully disengaged position, and apply parking brake.
2. Move throttle lever fully forward in "Choke" position. Turn ignition switch to "On".
3. Grasp starter rope handle firmly and pull sharply straight out to turn engine over. DO NOT let go of handle with the rope extended. Return the handle to the cover by hand. When engine starts, pull throttle back to disengage choke. After engine runs a few seconds throttle may be pulled back to half throttle. Allow engine to warm up a few minutes before applying a load.
4. If engine fails to start after 4 or 5 pulls, check to make sure that the gear shift lever is fully forward in neutral position and mower clutch lever is fully down in disengaged position to actuate both safety interlock switches.

If engine is flooded put throttle lever at 1/2 position and pull starter handle several times to clear the excess fuel.

STARTING ENGINE, ELECTRIC START

If the electric start kit has been installed proceed as follows:

1. Sitting on the seat, place gear shift lever in neutral; fully disengage mower clutch lever; move throttle lever fully forward in "Choke" position; fully depress clutch-brake pedal.
2. Turn the ignition key clockwise beyond the "On" position to actuate starter. When engine starts release ignition key immediately to allow it to return to "On" position. Move throttle lever back to about 1/2 throttle. Allow engine to warm up a few minutes before applying a load.
3. If engine should fail to start within 30 seconds, release ignition key and allow starter motor to cool a minute or two before making a second attempts.

NOTE: Check to be sure that gear shift lever is fully forward in neutral position and that mower clutch lever is fully down in disengaged position to actuate both safety interlock switches. If one or both of these switches is not actuated, the starter motor will run, but spark plug will not fire.

If engine should become flooded, position throttle lever at one half position and crank engine to clear the excess fuel.

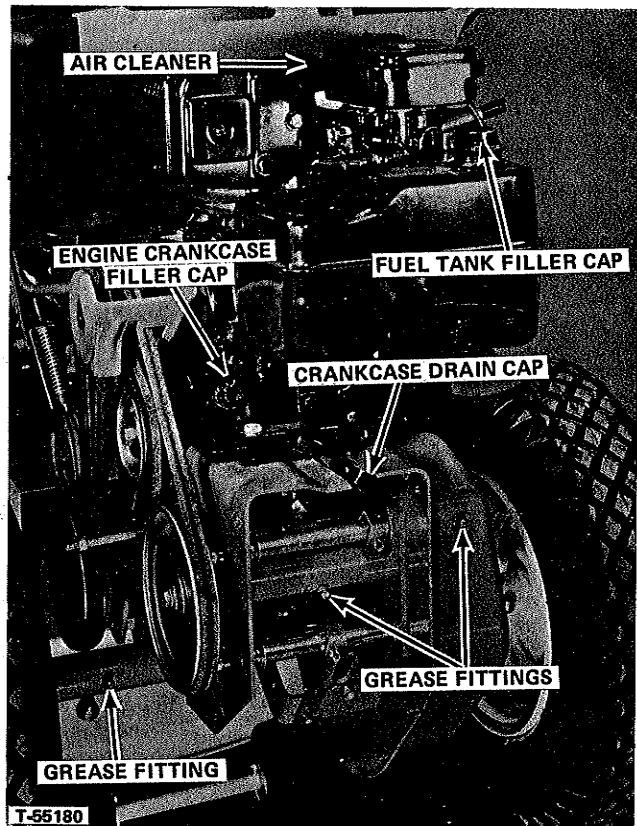


FIGURE 3

CAUTION

When engine becomes flooded, throttle should be in a position that the choke is disengaged in order to start engine.

STOPPING ENGINE

Manual and electric start engines are both stopped by first idling engine and then turning the ignition key counter-clockwise to "Off".

STARTING GROUND TRAVEL

When operating the vehicle for first time, the operator should become familiar with the handling of controls by driving the unit with the mower hooked up in transport position and the mower drive clutch disengaged. Proceed as follows:

1. With engine running, set throttle between 1/4 and 1/2 open.
2. Depress clutch-brake pedal fully.
3. Place gear shift lever in "Lo" by pushing rearward slightly and to the right.
4. Grasp steering wheel, straighten front wheels, look carefully around to make sure the area in which you plan to drive is clear of obstructions, people and pets.

5. Gradually release clutch-brake pedal to start moving, lift foot smoothly until clutch is fully engaged. **NOTE:** Remove foot from top part of clutch-brake pedal at once to prevent clutch "riding" and wear on belt. Foot may rest on foot rest pad. To stop forward motion, depress clutch-brake pedal fully.

6. Try starting, stopping, steering, shifting gears, faster throttle settings, backing up, etc. until you can operate vehicle smoothly and easily.

BEFORE MOWING

1. Be sure that you are familiar with the safety precautions, controls and operating instructions given in this manual.
2. Check the mower carefully to be sure that it is properly installed, leveled, and adjusted. See Adjustments section of this manual;

WARNING

NEVER OPERATE THE MOWER unless the deflector assembly is securely bolted in place.

3. Check the condition of mower blades. Keep them sharp and in balance.
4. Clear the lawn of all sticks, stones, wire and other debris which may be caught or thrown by the mower blade.
5. Determine the best method of mowing according to the dimension, terrain and obstruction of the lawn.

OPERATING THE MOWER

1. Engine speed for mowing should be from $\frac{3}{4}$ to full throttle. When grass is wet or over 3-inches high, full throttle will give best results.
2. Transmission Gear should be placed in "Lo" range when mowing heavy or wet grass and when on rough or sloping terrain. Use "Hi" range on dry moderate length grass on smooth terrain. **IT IS NECESSARY TO DEPRESS CLUTCH-BRAKE PEDAL AND STOP TRACTOR BEFORE SHIFTING GEARS.**

MOWING PATTERN AND GRASS CUTTING TIPS

1. For the first use of the mower, choose a smooth level area. Cut long straight strips overlapping slightly. After becoming familiar with the operation, proceed to inclined or rougher ground.

2. The size and type of area to be mowed determines the best mowing pattern to use. Obstructions such as trees, fences, and buildings must also be considered. In most cases, making one or two passes in a counter-clockwise direction around the outside of the area to be mowed is advisable to keep cut grass off of fences, walks, etc. The remainder of the mowing should normally be done in a clockwise direction so the clippings are dispersed on the cut area.

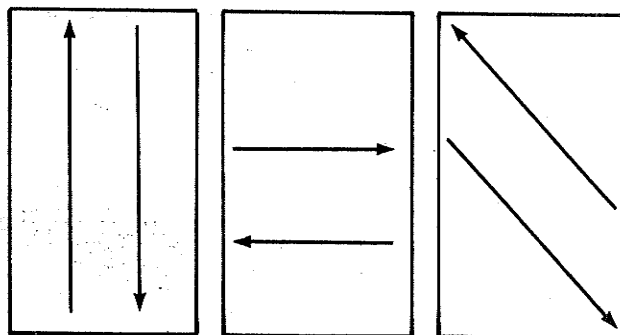
3. Always keep the right side of mower toward trees, posts, or other obstacles on the first pass around obstacle.

4. On moderate size, frequently mowed lawns where grass is light and dry it is sometimes practical to mow in a counter-clockwise direction so that clippings are thrown toward the center of the lawn and concentrated for easy pickup and removal.

5. Most lawns should be mowed to keep the grass approximately two to three inches high. Best results are obtained by cutting often and not too short. To keep a green lawn, never mow more than one third off the height of the grass or a maximum of one inch on one mowing. For extremely tall grass, set the cutting height at maximum for the first mowing, then reset to the desired height and mow again. Allow the grass to grow to three inches, then cut off only the top inch.

6. On thick or springy grass or soft ground, the mower rollers may sink into the ground giving too low a cut. Adjust the cutting height to get the desired height of cut. For best appearance, grass should be cut in the afternoon or evening when it is free of moisture.

7. Where possible change patterns occasionally to eliminate matting, graining and a corrugated appearance. See diagrams below.



CAUTIONS

DO NOT WORK around mower housing area until you are certain that the mower blade has stopped rotating.

Heed the **CAUTION SIGN**, the **DANGER SIGN**, and the **WARNING SIGN** located on the mower housing. Make certain the discharge deflector is always in place before operating mower.

ALWAYS disengage the mower drive clutch and stop engine before leaving the tractor seat. If leaving the tractor and mower unattended, remove the ignition key.

ADJUSTMENTS

LEVELING MOWER

WARNING

BE SURE that engine is stopped, ignition switch is on "Off", key is removed, transmission is in neutral mower clutch is disengaged, parking brake is on and mower blade has stopped turning.

1. See Figure 4. With mower on a flat surface rotate the blade by hand so that blade tips point front and rear.
2. See Figure 4. Measure the distance from each blade tip to the ground. The dimension at point "A" at rear of mower must be $\frac{1}{16}$ to $\frac{1}{8}$ inch greater than at point "B" at front of mower.
3. To raise or lower the front edge of the mower remove the cotter, pins and pins from the clevis on rear end of right hand and left hand leveling adjusting rods. To raise the blade in front, turn clevises onto the leveling rods, to lower front, turn clevises off of leveling rods. Turn the same number of turns for each clevis. Pin the clevises to the arms (Figure 5) and check dimensions (Figure 4).
4. When front and rear leveling dimensions are correct, turn blade sideways and check blade tip clearance on right and left sides. This dimension should be the same within $\frac{1}{8}$ -inch. If not, adjust one leveling rod clevis until mower is leveled crossways. Reinstall pins and cotter pins.

5. Raise or lower the entire mower by adjusting the cutting height crank, until desired cutting height is obtained.

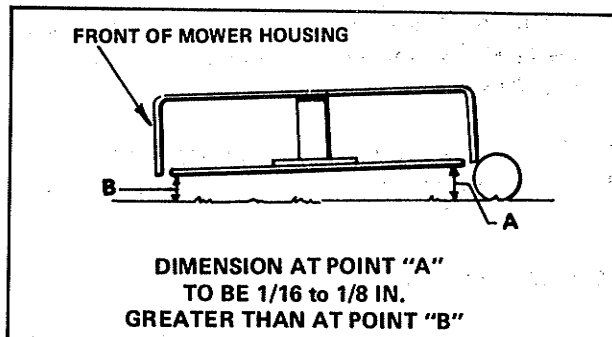


FIGURE 4

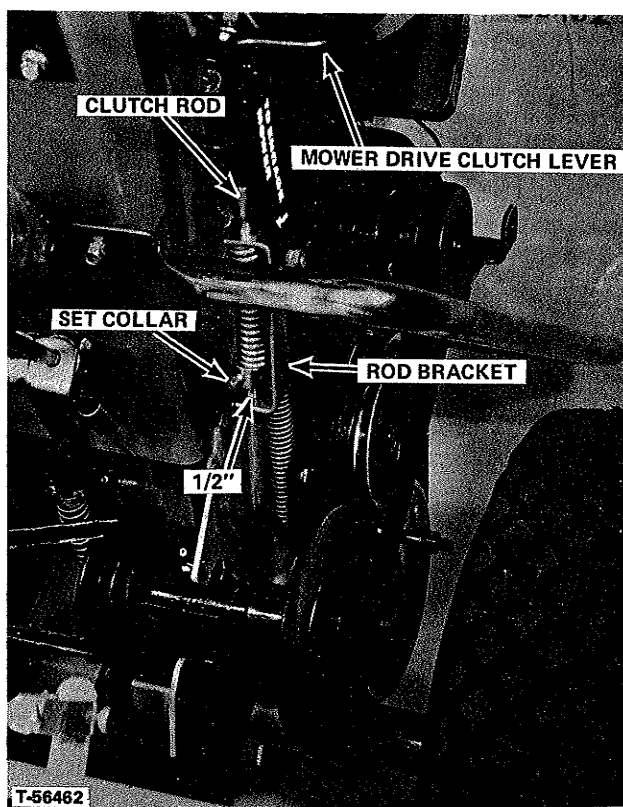


FIGURE 6

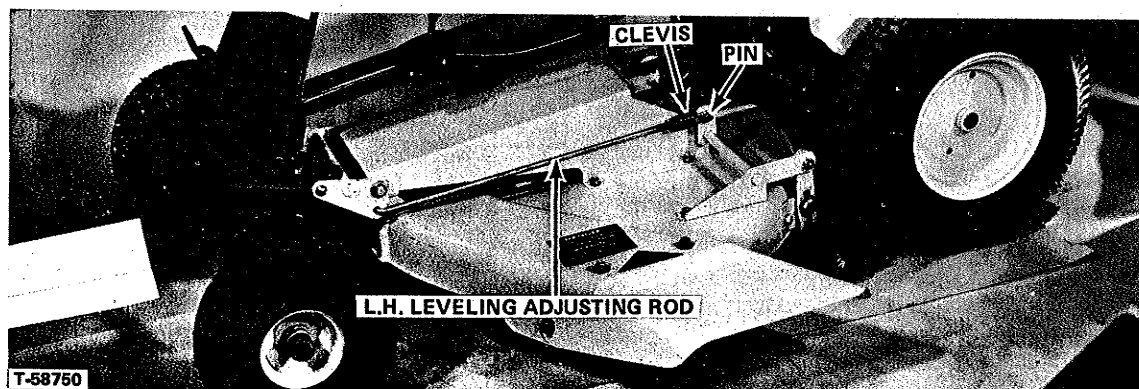


FIGURE 5.

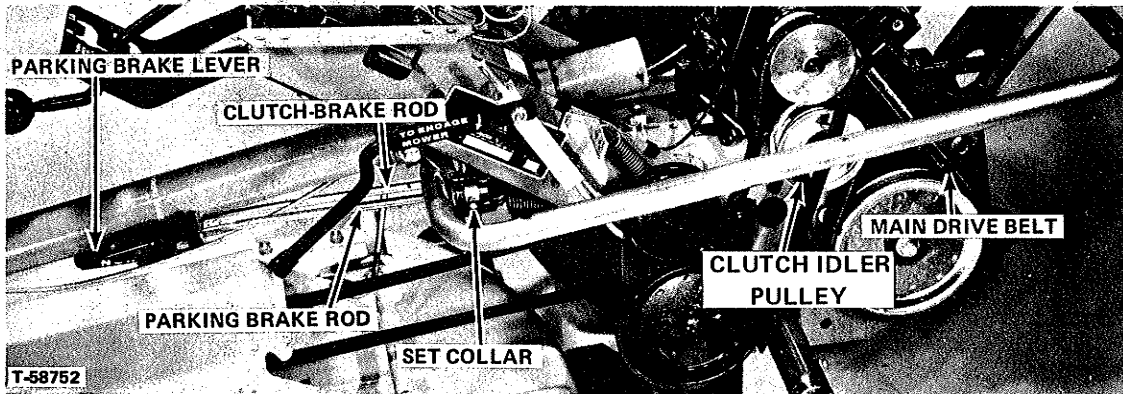


FIGURE 7

MOWER DRIVE CLUTCH

See Figure 6. With the mower drive clutch engaged, clutch lever up, there should be about 1/2 inch clearance between set collar and clutch rod bracket. Loosen setscrew in collar to adjust. DO NOT adjust set collar to completely compress spring.

PARKING BRAKE

See Figure 7. Move set collar forward on parking brake rod until brake is drawn tight when parking brake lever is pulled up to the vertical position. When applying parking brake the brake lever can be more easily raised if the foot clutch-brake pedal is fully depressed at the same time.

CLUTCH-BRAKE

To adjust clutch-brake linkage proceed as follows:

1. Remove engine hood and left shield,
2. Fully release the parking brake lever.
3. See Figure 8. Grasp the top of the clutch brake pedal and pull upward and rearward as far as it will go and hold it there. There should now be 1-1/4 inch clearance between rear face of rod guide and forward face of set collar as shown. If dimension is not 1-1/4 inches, unhook spring "A" from setscrew. Loosen setscrew and move collar to obtain the 1-1/4 inch dimension when clutch-brake pedal is held fully back as far as it will go. Tighten set collar and replace spring "A".
4. See Figure 9. Check that 1/8-inch of clutch rod is sticking through locknut at rear end of clutch rod.
5. See Figure 10. Loosen the set collar on the center of clutch rod. Note that spacer shown next to set collar is same spacer shown in Figure 9 in front of idler spring.

6. Press clutch-brake pedal fully forward and hold there with heavy pressure on brake. Rotate idler pulley, (Figure 7) rearward with light pressure until it stops. With idler held in this position, and clutch-brake pedal still fully depressed, move set collar (Figure 10) to the rear until it and the spacer pushes the idler spring (Figure 9) against the rod guide. Locate set collar so that it holds spring against rod guide without compressing the spring. Secure set collar to clutch rod with setscrew.

7. This setting should give good smooth clutch and brake action. If at any time the main drive belt slips on hard pulls, the set collar (Figure 10) should be moved to the rear 1/8-inch at a time until belt drives.

8. Replace left shield and engine hood.

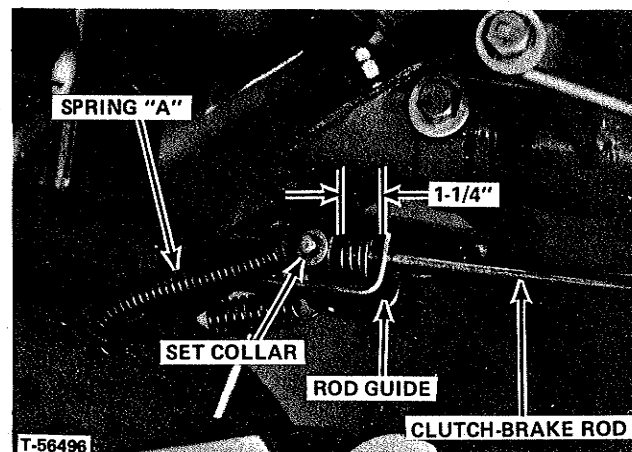


FIGURE 8 - R.H. Side

SAFETY INTERLOCK SWITCHES (Figures 10 and 11)

The switch actuating lever attached to the gear shift rod and the one attached to the mower clutch pivot rod must push the actuating button of the respective safety interlock switches in far enough to make electrical contact when shift rod is in neutral and mower clutch is disengaged. If switches fail to close, check that switch actuating levers are moving actuating buttons far enough. Relocate or bend levers if necessary to fully close switches.

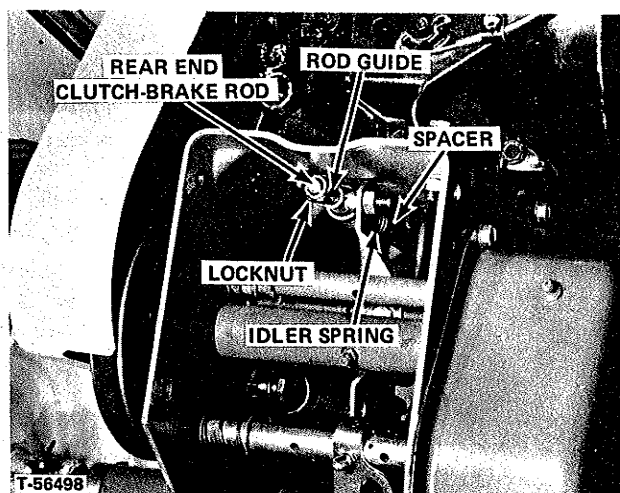


FIGURE 9 - Rear Panel And Drawbar Removed

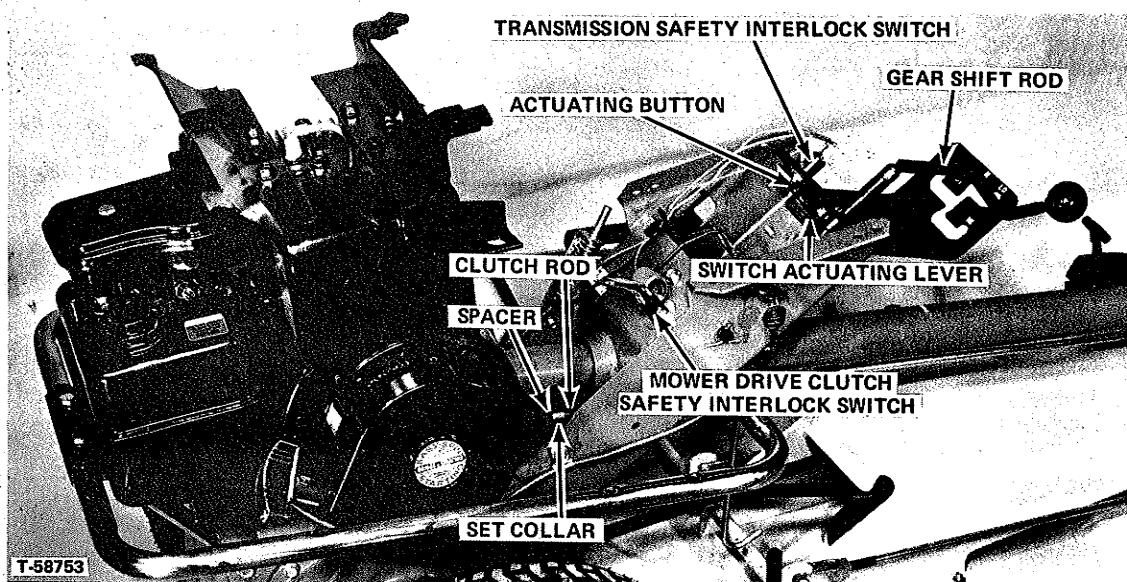


FIGURE 10

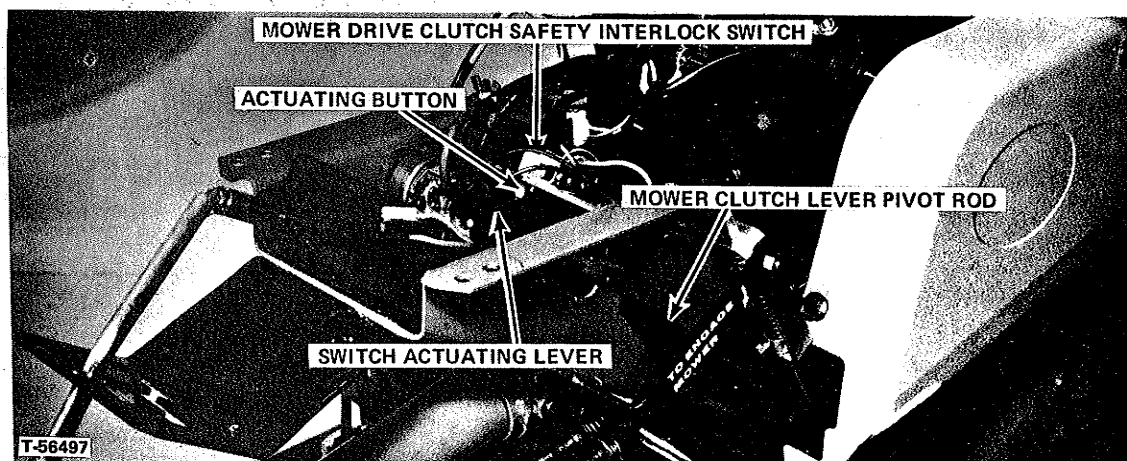


FIGURE 11

SEAT (Figure 12)

The seat is provided with two sets of mounting holes to allow repositioning from front to rear as desired. Remove the lower seat pan mounting nuts and lockwashers and relocate the rubber-mounted studs in the second set of holes. Two flat washers must be placed between seat and frame on the two forward rubber mounting studs. Retighten nuts securely.

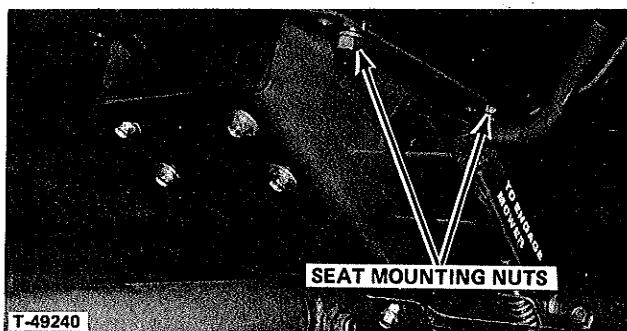
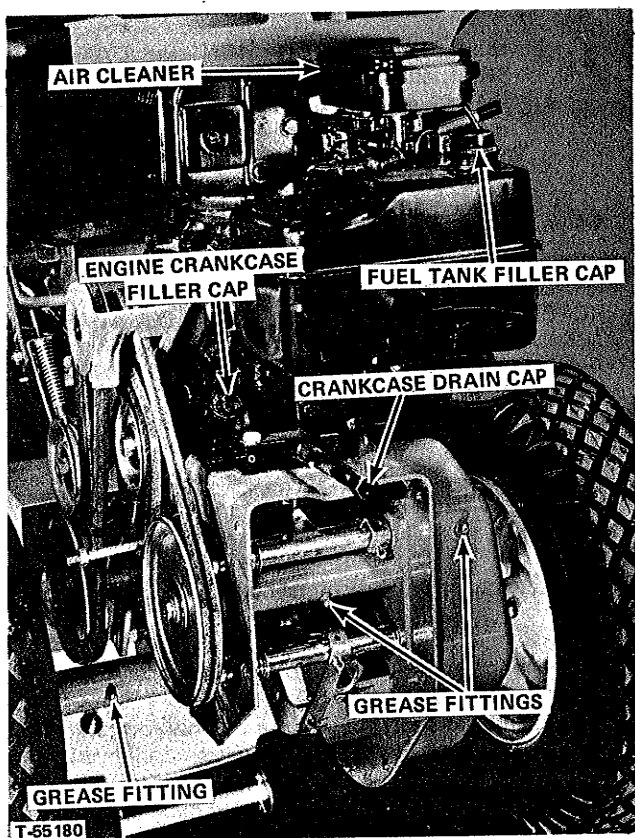


FIGURE 12
MAINTENANCE



ENGINE OIL

FIGURE 13

1. See Figure 13. Check engine oil level before starting the engine and after each 5 hours of operation.
2. Change oil after first 5 hours of operation and every 20 hours of operation thereafter. Tractor should be on level surface when changing oil.

To change oil, first remove any dirt or trash buildup around crankcase filler cap. Then drain the oil while engine is warm by removing the crankcase drain cap from pipe at rear of engine (Figure 13).

When all of oil has drained, replace the drain cap and fill with high quality detergent engine oil classified "For Service" SC or SD. Use 10W-30 grade. Fill to overflow point at filler tube into which crankcase filler cap fits. Install cap.

ENGINE FUEL

Use clean fresh leaded or unleaded "REGULAR" grade automotive gasoline. Fill tank completely.

DO NOT use premium gasoline and DO NOT mix oil with gasoline.

AIR CLEANER

Under normal conditions the air cleaner element should be removed, cleaned and reoiled every 20 hours of operation, but more often in dusty, dry, or windy conditions.

1. Remove three thumb screws from engine hood and remove hood.
2. See Figure 13. Remove the screw from top of air cleaner and remove air cleaner cover.
3. Remove foam element from air cleaner body. Wash it in liquid detergent and water, or with kerosene to remove dirt. Wrap the foam element in clean dry cloth and squeeze to remove excess fluid. Saturate element with clean engine oil and squeeze to remove excess oil.
4. Reassemble air cleaner completely and replace engine hood.

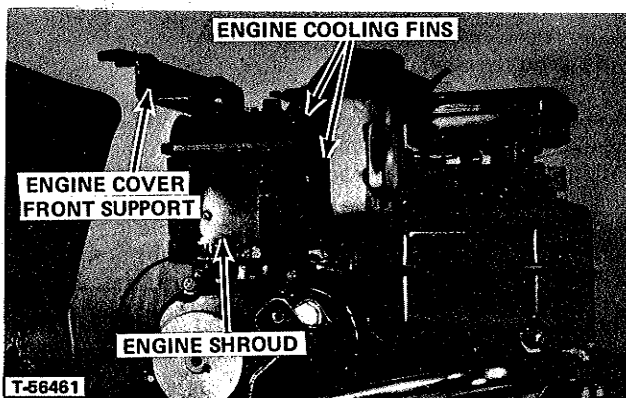


FIGURE 14

ENGINE COOLING

Every time air cleaner is serviced, the engine cooling fins (Figure 14) and flywheel screen (Figure 31) should be thoroughly cleaned of all clippings, dirt and chaff to prevent engine from overheating.

Remove engine shroud (Figure 14) and flywheel cover (Figure 31) to expose the fins on front and sides of engine as well as flywheel screen for thorough cleaning.

The flywheel cover and recoil start rope is removed as one assembly by removing three capscrews from the flywheel cover (one on top, and one each at lower front and lower rear).

Remove the engine cover front support (Figure 14) by removing two capscrews from the cylinder head.

NOTE: When re-installing capscrews in front support and cylinder head, tighten the two capscrews to only 140 inch-pounds of torque (14 pounds of force applied 10 inches away from center of capscrew). To exceed this torque can damage engine cylinder head.



FIGURE 15

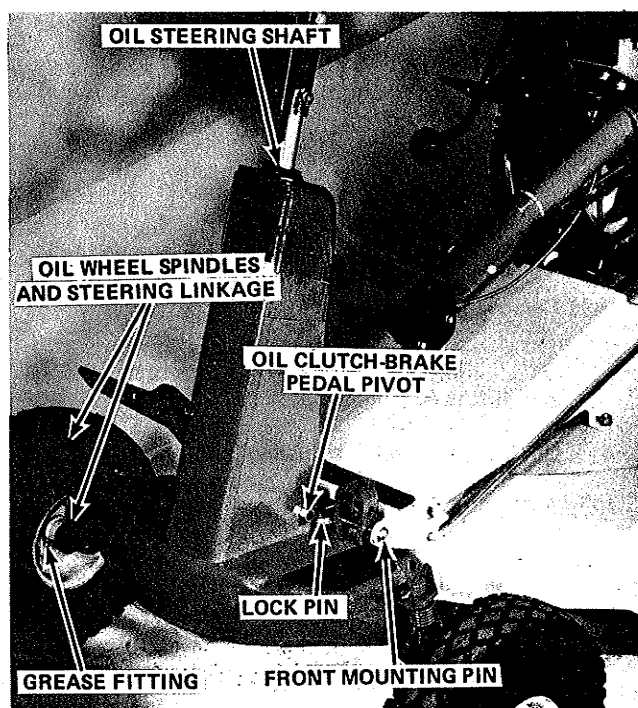


FIGURE 16

SPARK PLUG.

Clean and re-gap the spark plug after every 200 hours of operation. Gap to .030 inch. DO NOT clean the plug by sand-blasting, this process often leaves a residue of grit in the plug which can cause engine damage. Clean the plug with solvents, scraping or using a wire brush, then re-gap. If a plug cannot be cleaned sufficiently by these methods, it should be discarded and replaced with a new plug.

LUBRICATION

See Figures 13, 16, 17 and 18. Grease all ten fittings after every 10 hours of operation with lithium-based, general purpose automotive grease. Remove all dirt and paint from fittings before applying grease.

See Figures 16, 17, 18 and 19. Oil all pivot points after every 10 hours of operation with light engine oil.

CAUTION

Do not allow oil to drip on belts or pulley grooves.

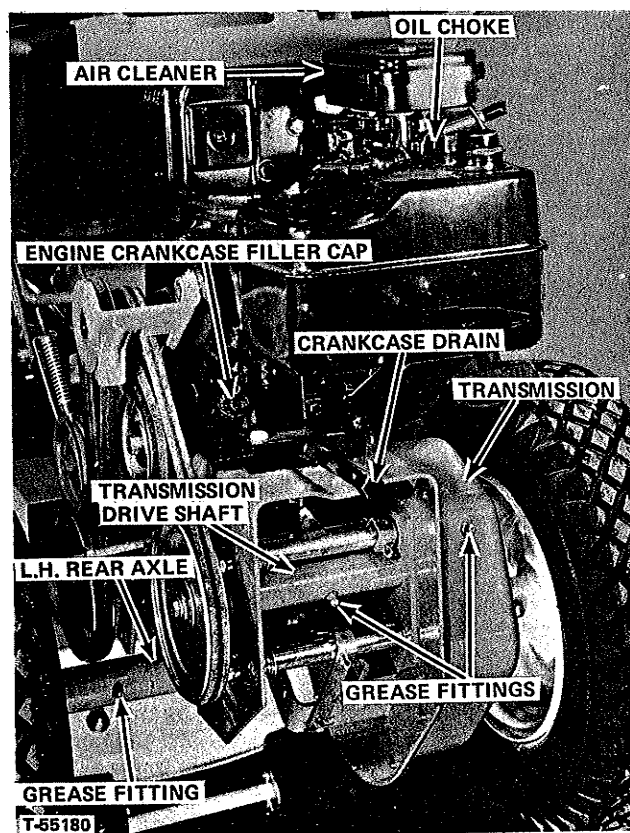


FIGURE 17 - Rear Drawbar Panel Removed

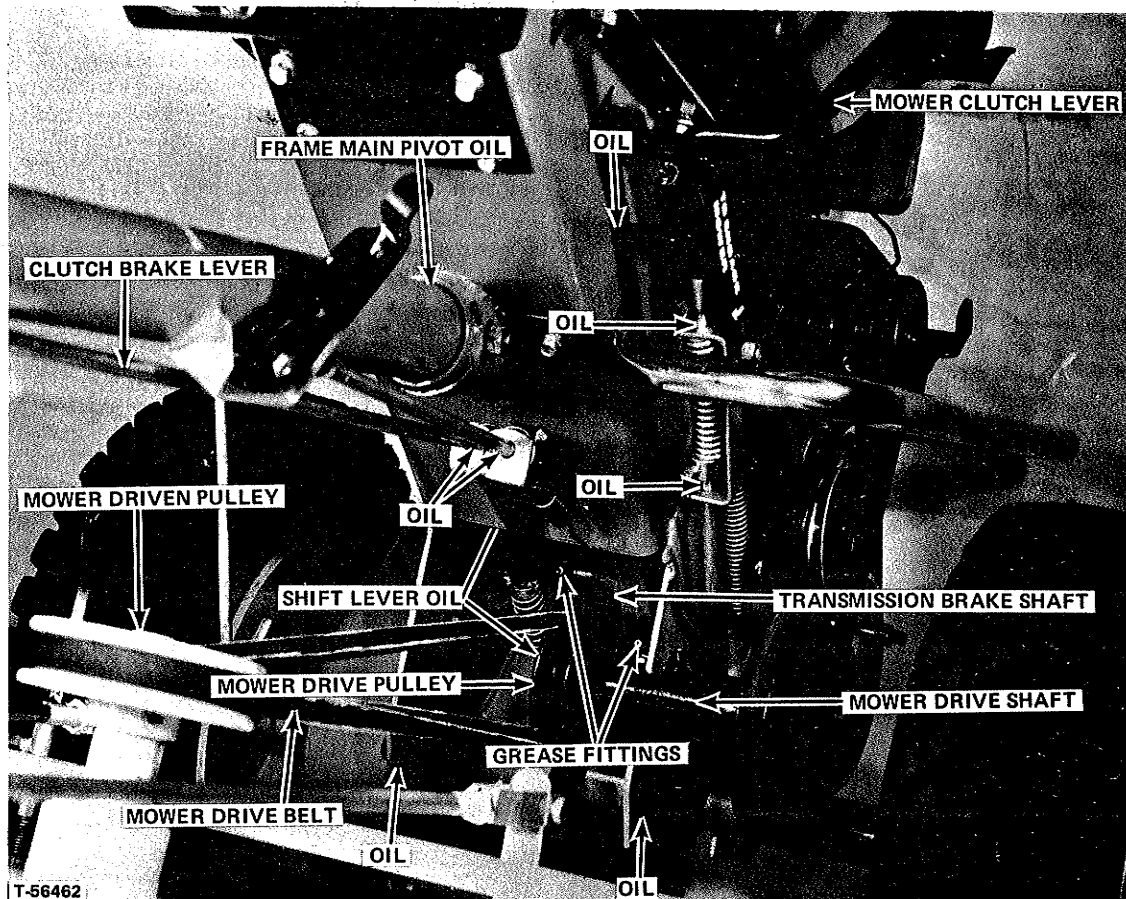


FIGURE 18 - Belt Shield Removed

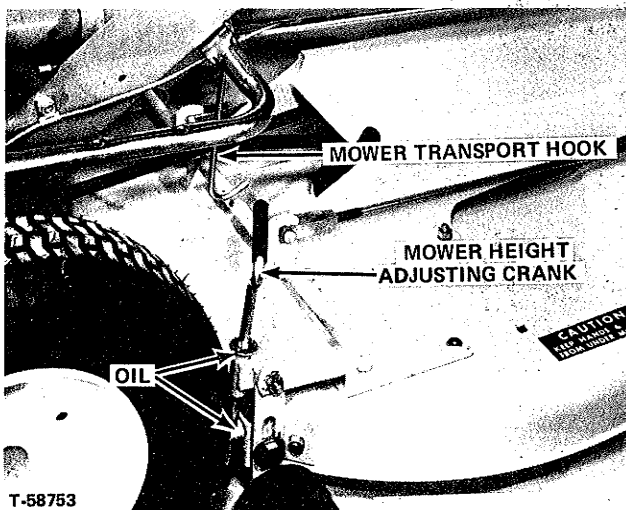


FIGURE 19

MOWER INSPECTION

After each mowing, grass clippings and material should be cleaned from the housing and the mower blade inspected for straightness and sharpness.

WARNING

BE SURE that tractor engine is stopped, ignition key is turned to "Off" and removed from switch, transmission is in neutral, mower drive clutch is disengaged and that mower knife has stopped turning before attempting to inspect or clean mower housing.

If blade is bent, damaged or dull, mower will have to be removed and service blade.

WARNING

DO NOT try to remove or sharpen blade with mower attached to tractor.

MOWER REMOVAL

1. See Figure 19. Disengage the mower transport hook and lower rear of mower to ground.
2. See Figure 16. Remove the lock pins and front mounting pins that hold front of mower to axle and lower front of mower to ground.

3. See Figure 18. With mower drive clutch disengaged, pull the mower drive shaft and pulley assembly forward to loosen mower drive belt. Remove drive belt from mower drive pulley.

4. Turn the front wheels all the way to the right and slide the mower out from under the tractor frame toward the left side.

NOTE: If tractor is to be operated without mower in place and in order to start engine, push down on mower clutch lever to actuate safety switch. The mower clutch lever can be released after engine starts.

MOWER INSTALLATION

1. Slide mower under tractor from left side.

2. See Figure 18. Place mower drive belt over mower driven pulley, pull mower drive shaft and pulley assembly forward and install belt over mower drive pulley.

NOTE: Belt must run from top side of drive pulley to right side of driven pulley and from bottom side of drive pulley to the left side of driven pulley.

3. See Figure 16. Lift front of mower and install front mounting pins and lock pins, using lower set of mounting holes.

4. See Figure 19. Lift rear of mower and engage mower transport hook.

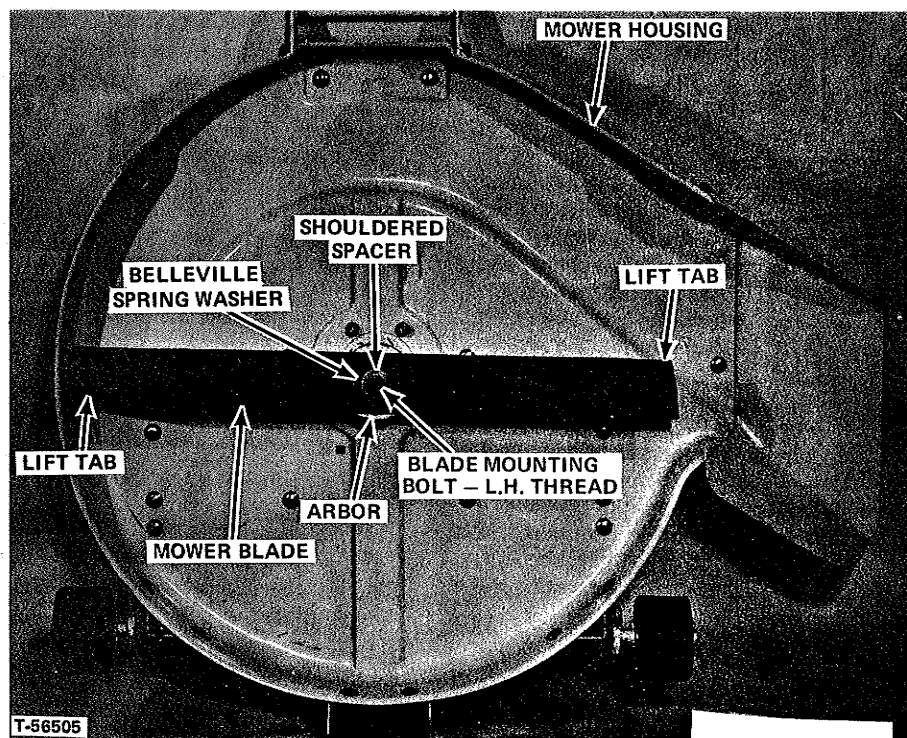


FIGURE 20 - View of Underside of Mower

MOWER BLADE REPLACEMENT (Figure 20)

1. Remove the mower from tractor as outlined above and turn mower upside down.

2. Procure a socket or box wrench at least 12-inches long to fit the blade mounting bolt.

CAUTION

DO NOT attempt to use an adjustable wrench.

DO NOT remove the arbor assembly - blade must be removed from arbor.

3. Wedge a block of wood securely between the end of the blade and the housing to prevent blade from turning while loosening and tightening the blade mounting bolt.

NOTE: This bolt has left hand threads, it must be turned clockwise to loosen and counter-clockwise to tighten.

4. Remove blade mounting bolt.

NOTE: Pay careful attention to the position of shouldered spacer and Belleville spring washer under bolt head so that they can be assembled the same way when putting the blade back on.

5. If blade is bent or seriously damaged, replace it with a new one.

6. If blade is straight and has no large nicks you can sharpen it yourself. Clamp blade securely in a vise and use a large mill file along the original bevel. File to a sharp edge.

7. Place a small rod through center hole of blade and check blade for balance. File more metal off of heavy side until blade does balance.

WARNING

ALWAYS handle blade with extreme care to avoid injury.

8. Carefully clean blade and arbor and install new or sharpened blade with the lift tabs on blade end turned toward top of mower housing. Be sure that shouldered spacer is on blade mounting bolt with large diameter next to head of bolt, and that tapered Belleville washer is on the spacer with large end of washer against underside of blade just as removed in step 4. Tighten bolt, (turn counter-clockwise) to 80 foot-pounds of torque. Be sure to wedge a block of wood between end of blade and housing to prevent turning when tightening.

9. Rotate blade by hand slowly to see that it clears the housing all around and that the tips are running true. If tips of blade do not run true, blade turns hard, or if, the arbor shaft or housing may be bent and must be replaced.

MOWER BELT REPLACEMENT

See Figure 18. It is essential that the mower belt be installed correctly. Note that the belt must run from the TOP of the power take-off pulley to the RIGHT side of the mower pulley and from the LEFT side of the mower pulley to the BOTTOM of the power take-off pulley.

If oil has been spilled on belts, wipe it off with a cloth and wash belt with warm water and detergent.

GENERAL REPAIRS

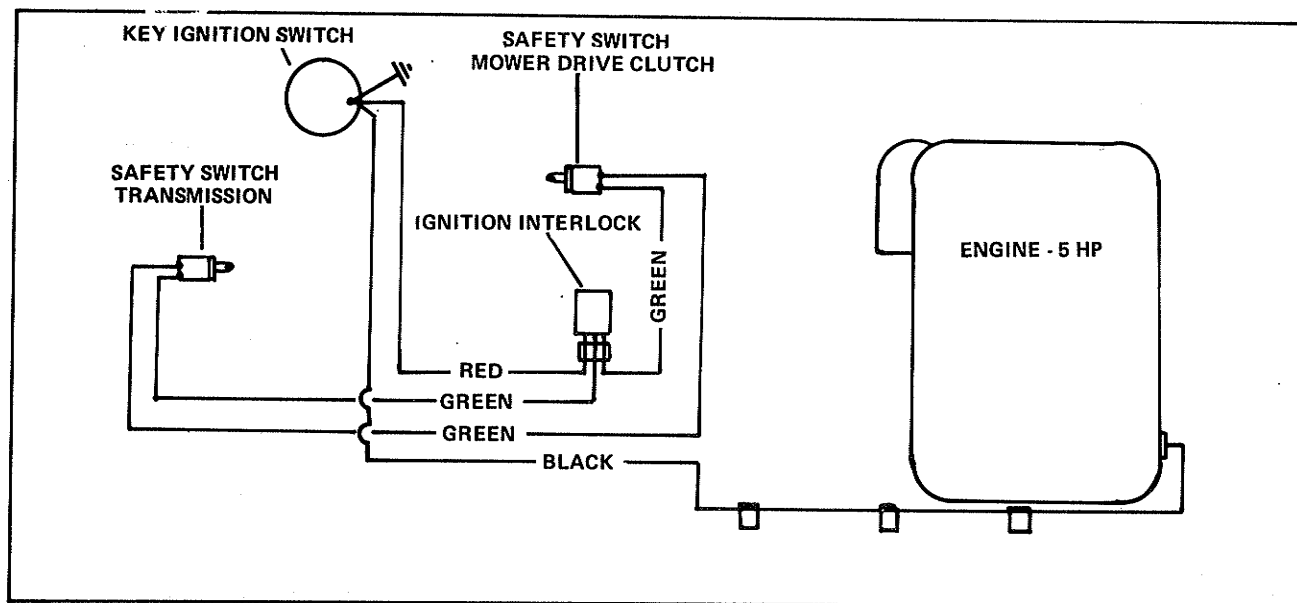
To prevent rusting, sand off and paint any parts or areas which become chipped or damaged. Apply a good rust preventive to all bare metal parts. Tighten all bolts and capscrews securely.

BATTERY CARE

See Accessories section of this manual.

WIRING

If any wiring or electrical component replacement is necessary, refer to the following vehicle wiring diagram. If an electric kit is used, the kit wiring diagram in the Accessories section of this manual should be referred to.



WIRING DIAGRAM (VEHICLE)

OFF-SEASON STORAGE

1. Gasoline stored for several months can develop gum deposits which can clog fuel lines and the carburetor. To prevent this, add the recommended amount of a good quality gasoline stabilizer to your fuel and fill the tank. Run engine long enough to have carburetor filled with stabilizer treated fuel. After engine has cooled fill tank completely full to eliminate condensation of water in tank during storage. Be sure that all gasoline stored in a container for several months is also treated with a stabilizer.
2. Drain and refill crankcase while engine is warm and with unit parked on a level surface. See Maintenance section of this manual.
3. Remove spark plug. Pour 1 oz. of 10W-30 oil into cylinder through plug hole. Crank engine a few times to distribute oil. Reinstall spark plug.
4. Clean dirt and chaff from cylinder head fins and engine housing.
5. Apply grease to all fittings and light engine oil to all pivot points. See Maintenance section of this manual.
6. Block the vehicle up off the wheels to relieve weight and keep tires off a damp floor. Protect the tires from prolonged exposure to direct sunlight.
7. Store the vehicle in a dry place indoors.
8. Remove tension from all belts.

STARTING AFTER STORAGE

1. Remove the spark plug and wipe it dry. Crank the engine a few times to blow the excess oil out of the spark plug hole, then re-install the spark plug.
2. Fill the fuel tank completely with fresh "Regular" gasoline.
3. Service the air cleaner. See Maintenance section of this manual.
4. Check the crankcase oil level and replenish if necessary.
5. Start the engine and let it run slowly. DO NOT run at high speed immediately after starting. Run the engine outdoors or in a well-ventilated area.
6. Inflate the tires to operating pressure.

Rear tires - 10 pounds
Front tires - 24 pounds

TROUBLESHOOTING

IF ENGINE FAILS TO START, check the following:

1. Throttle lever must be all the way forward to choke and start a cold engine. Throttle must be 1/2 open to start a warm engine.
2. Choke must be in "OFF" position if engine appears to be flooded.
3. Shift lever must be in "NEUTRAL" position.
4. Mower clutch lever must be down in "DISENGAGED" position. (Hold down by hand if mower has been removed from tractor.)
5. Spark plug wire must be securely connected.

IF BELT SLIPPAGE OCCURS, check the following:

1. Belts may be stretched or excessively worn.
2. Pulleys may be greasy or oily.
3. Insufficient belt tension due to a broken, worn or mis-adjusted tension spring.

IF A BELT BREAKS, check the following:

1. Look for sharp edges or rough spots on pulleys.
2. Pulleys may be misaligned.
3. Belt tension may be too tight.

IF HANDLING OF UNIT IS DIFFICULT, check the following:

1. Controls or drive systems may be out of adjustment.
2. Tires under-inflated. Inflate rear tires to 10 pounds, front tires to 24 pounds.
3. Wheel slippage on slopes. Wet grass is very slippery - mow in the late afternoon after it has dried. Counterweights may be added to provide additional stability.

IF AN UNEVEN CUT RESULTS, check the following:

1. Mower may not be adjusted properly. See Adjustment section of this manual.
2. Mower housing may be bent or damaged.

3. Blade arbor tube may be bent.

IF A POOR OR ROUGH LOOKING CUT RESULTS, check the following:

1. Blade may need sharpening. See Maintenance section of this manual.
2. Grass may be too high or gone to seed.
3. Drive belt may be slipping.
4. Mower may be out of adjustment. See Adjustments section of this manual.
5. Engine speed may be too low. Run at 3/4 to full throttle.

CAUTION

IF VIBRATION OCCURS, stop tractor immediately disengage mower drive clutch, stop engine, and check the following:

1. Arbor shaft or tube (or both) may be bent.
2. Blade may be unbalanced or damaged.
3. Drive pulley may be bent or misaligned.

Repair any damage and correct out of balance condition before starting mower. See Maintenance section of this manual.

SPECIFICATIONS

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

ENGINE - Briggs and Stratton

Model No.: 130202

Horsepower: 5

Cycles: 4

Cylinders: 1

Bore: 2-9/16 in.

Stroke: 2-7/8 in.

Displacement: 12.5 cu. in.

Crankshaft: Horizontal

Starter: Manual Rewind, 12V Electric Start Kit, Field Installation

Ignition: High Tension Magneto with Key Switch

Governor: Adjustable Mechanical Type

Air Cleaner: Sealed Housing, Reusable Oiled Foam Element

Choke: With Throttle Control (Choke-A-Matic)

Crankcase

Lubrication: Splash System

Oil Capacity: 1-1/2 Pints

Fuel Capacity: 3 Quarts

Muffler: Quiet, Rear Discharge

TRANSMISSION

Type: All Gear, Fully Enclosed and Lubricated

Speeds: Two Forward, One Reverse

Speed Range

Low: 2.37 mph

High: 3.14 mph

Reverse: 2.37 mph

Differential

Type: All Gear, Fully Enclosed and Lubricated

ROTARY MOWER

Mounting: Suspended from and Tilts with Front Axle

Width of Cut: 26 inches

Height of Cut: 1-1/2 to 3-3/4 inches

Drive: Cushioning V-Belt with Lever Control

Adjustment: Single Handle Controls Front and Rear Height

Spindles: Sealed, Ball Bearings

Rear Support: 2 Rollers with Center Anti-Scalp Roller

Housing: Drawn Steel with Spiral Discharge Tunnel

CHASSIS

Frame: Heavy Gauge Steel with Main Pivot Below Seat

Rear Wheels

Pneumatic, Inflation Pressure: 10 lbs.

Size: 4.80/4.00 x 8

Front Wheels

Pneumatic, Inflation Pressure: 24 lbs.

Size: 4.10/3.50 x 4

Bearings: Sintered Metal with Grease Fittings

Seat

Type: Bucket, Rubber Mounted

Cover: Leatherette on Bonded Foam

Turning Radius

Inside Rear Tire: 23 inches

Inside Mower Cut: 33 inches

Stability: 30% Uphill and Sidehill Slope w/Counter-weights: 20%w/o counterweights

CONTROLS

Steering

Control: Steering Wheel Type

System: 1-to-1 Ratio, Lever and Drag Link

Clutch and Brake Pedal

Location: Right Front

Clutch: Soft Action, Touch-O-Matic, V-Belt

Brake: Foot Operated Band Type

Parking Brake: Hand Operated

Gear Selector

Location: Front Center of Seat

Mower Clutch

Location: Left Side of Seat

Throttle Choke Control

Location: Ahead of Seat on Pivot Tube

Starter

Location: Rear Right Side of Engine

DIMENSIONS

Overall Length: 58 inches

Overall Width

Without Mower: 28-1/4 inches

With Mower: 36-1/16 inches

Overall Height

To Top of Steering Wheel: 39 Inches

To Top of Engine Cover: 29-1/4 inches

Wheel Base: 41-1/2 inches

Net Weight

With Mower: 246 lbs.

Shipping Weight

With Mower: 268 lbs.

ACCESSORIES

12 V ELECTRIC START KIT

12 V. Electric Start Kit is available with your riding mower. You will find the parts you will receive with the kit in the parts listings section of this manual.

GRASS CATCHER AND INSTALLATION

1. Remove the mower from tractor and turn mower upside down. Procure a socket or box wrench to fit the 5/8-inch blade mounting bolt with left hand threads and remove bolt by turning it clockwise.

CAUTION

Block blade with block of wood so as to avoid injury. Also use gloves or wrap a rag around blade when holding during this operation.

2. See Figure 21. Remove the original mower blade and replace with new blade having lift plates welded to blade ends. Place mower blade with welded lift plates facing upward to deflect grass clippings into grass bag. The blade stiffener is placed over center of mower blade as shown. To properly align new blade in blade stiffener, two capscrews may be temporarily inserted through guide holes in stiffener and blade. Add the belleville washer followed by shouldered spacer and 5/8-inch mounting bolt with left hand thread. The mounting bolt must be torqued to 80 foot-pounds. Slide mower back under tractor and reattach the mower and belt to tractor.

WARNING

DO NOT try to remove blade with mower attached to tractor.

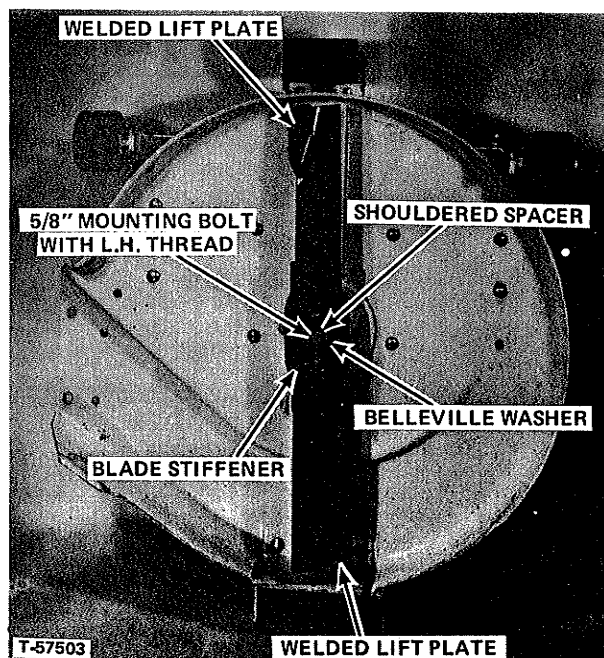


FIGURE 21

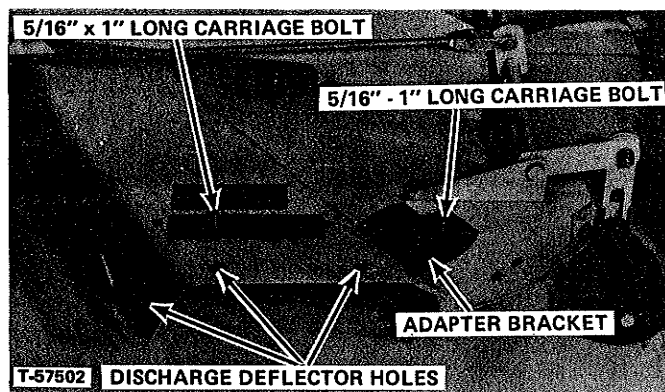


FIGURE 22 - L.H. Side of Mower

3. Loosen the three nuts and bolts holding the discharge deflector and remove deflector from mower housing.
4. See Figure 22. Attach the adapter bracket to mower platform as shown. Install two 5/16 x 1 inch long carriage bolts with locknuts that are required to hold adapter in place.
5. See Figure 23. Attach adapter to mower housing in place of previously removed discharge deflector. Use the two wing nuts to hold adapter in place.

CAUTION

If adapter is removed, always install discharge deflector before operating mower.

6. See Figure 24. Remove the three thumb screws holding the engine hood and remove head. Remove the original exhaust deflector and replace with new deflector to direct exhaust stream to the side instead of rearward.
7. See Figure 24. Attach support bracket to top of drawbar using flat washer at bottom of drawbar along with 3/8-inch bolt with lockwasher and nut.
8. See Figure 24. Slide the "U" clamp with setscrew over the chrome guard rail and position vertical supports through "U" clamps. Bolt vertical supports to support bracket with curved-head bolts using 5/16-inch lockwasher and nut. Tighten "U" clamp setscrew against guard rail to lock vertical supports. Replace engine hood and tighten thumb screws.

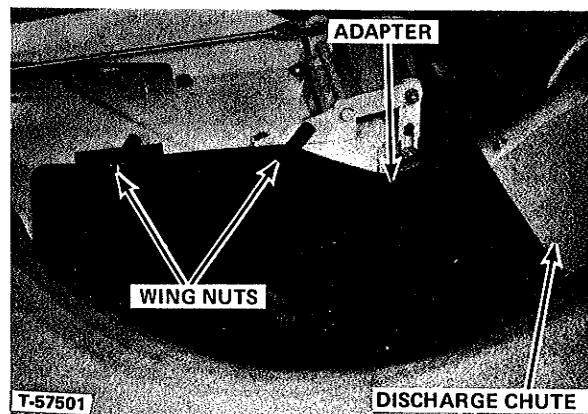


FIGURE 23

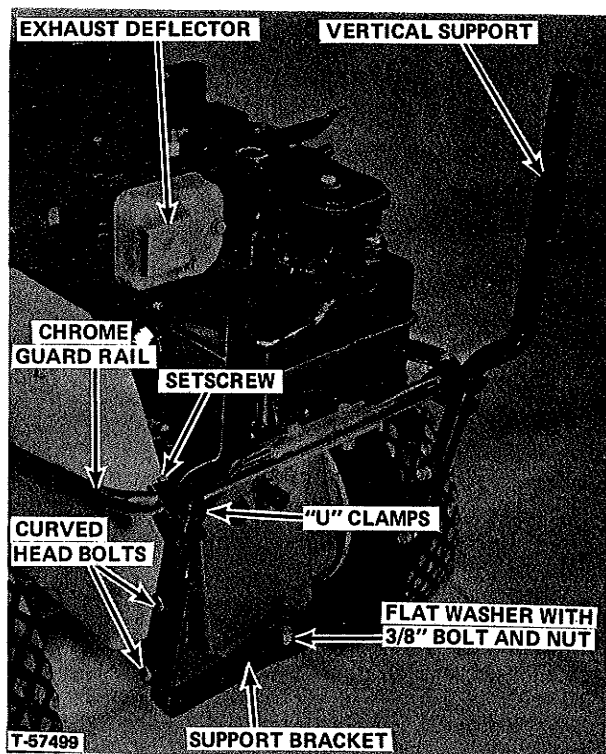


FIGURE 24

9. See Figure 25. The discharge tube is assembled by rolling the plastic to form a tube securing it in position by using eight Phillips head screws. Place a flat washer on each side of tube seam followed by lockwasher and hex nut. Place nuts on outside of discharge tube. Slip tube over adapter opening.

10. The grass bag tubular frame assembly on which the grass bag hangs has two tubular supports welded to its front side in position to fit over the vertical supports shown in Figure 24. To install bag on this frame the bag zipper must be completely un-zipped allowing the grass bag plastic top panel to unfold. On the front side of grass bag, opposite the mesh panel, there are two holes in the plastic top panel. Insert the two tubular supports welded to the grass bag frame down through these two holes with the cloth portion of the bag toward the inside of the frame and with the plastic top panel on the outside of frame. Roll the plastic top panel up and over the frame tube and bring the two halves of the zipper together on the inside of the frame. Connect the ends of the zipper together at point "A". (Figure 25). Then work zipper handle counter-clockwise completely around the rectangular frame closing the zipper hooks as it goes until the other end of zipper is reached as shown in Figure 25.

11. Lift the frame, and the bag assembled to it, and insert the upper ends of the vertical supports, (Figure 24), into the tubular supports welded to the grass bag frame. Lower the frame and bag over the vertical supports as far as they will go, inserting the rear end of the discharge tube in the hole in the left front corner of the grass bag as bag is being lowered (Figure 25).

12. See Figure 26. The grass bag cover has four spring clips bolted to it to hold it in place on the grass bag frame. To install cover, position it above grass bag, align cut-out on front side with the discharge tube and push down firmly to snap the spring clips over the outside of the grass bag frame and plastic top panel of the bag that covers the frame.

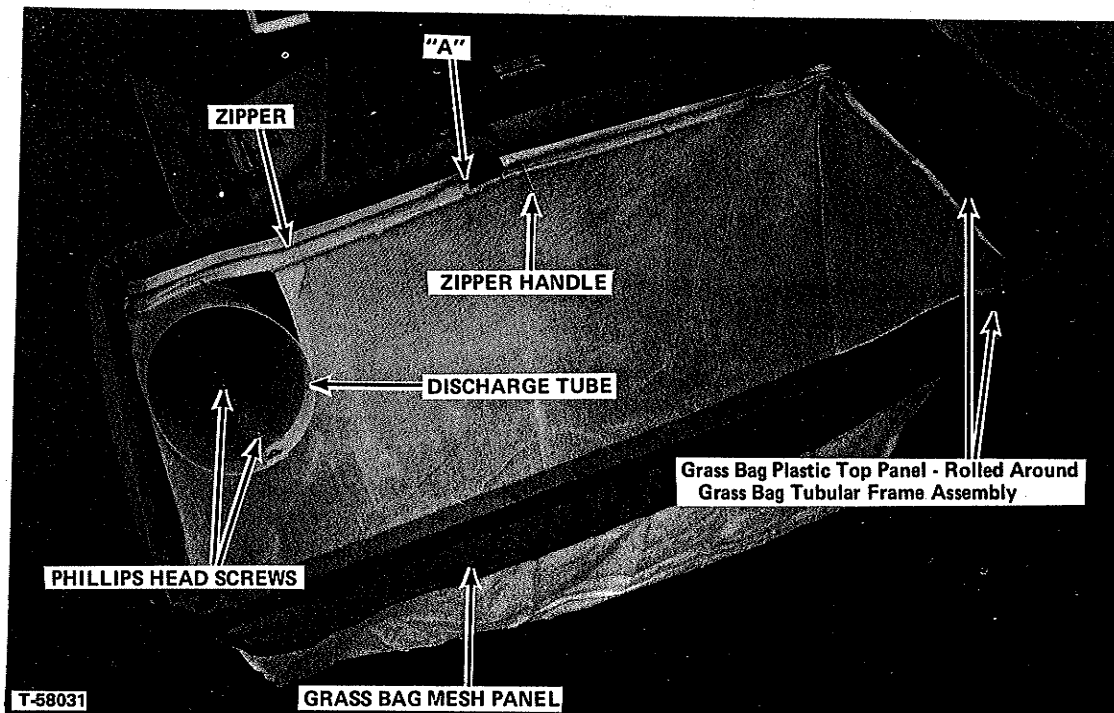


FIGURE 25

EMPTYING GRASS BAG

WARNING

BEFORE EMPTYING GRASS BAG, ALWAYS STOP TRACTOR, disengage PTO drive to mower, place transmission in neutral, apply parking brake and stop engine.

To empty grass bag, pull up on cover to unsnap spring clips and remove cover. Lift bag and frame straight up until the frame tubular supports come off of the vertical supports. Turn bag and frame over to dump grass clippings. Again place the grass bag frame tubular supports over the vertical supports and lower in place slipping bag over discharge tube as in Figure 25. Place grass bag cover over grass bag frame and snap spring clips in place over grass bag frame.

CAUTION

NEVER operate the unit with the grass bag, the grass bag cover, or the discharge tube removed.

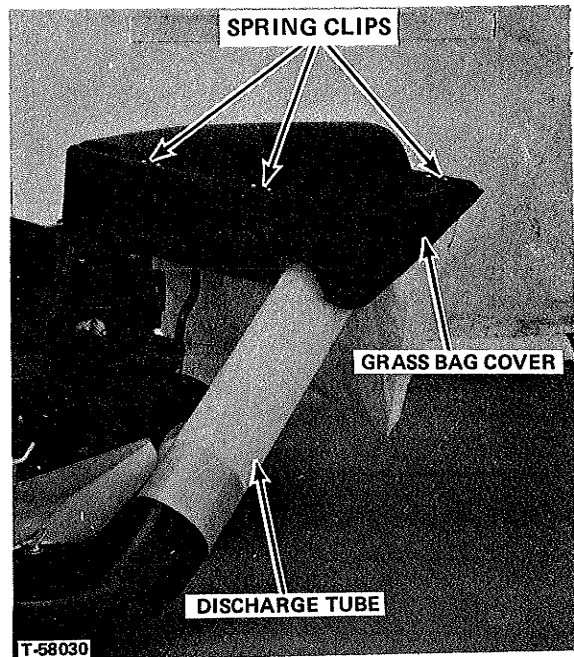


FIGURE 26

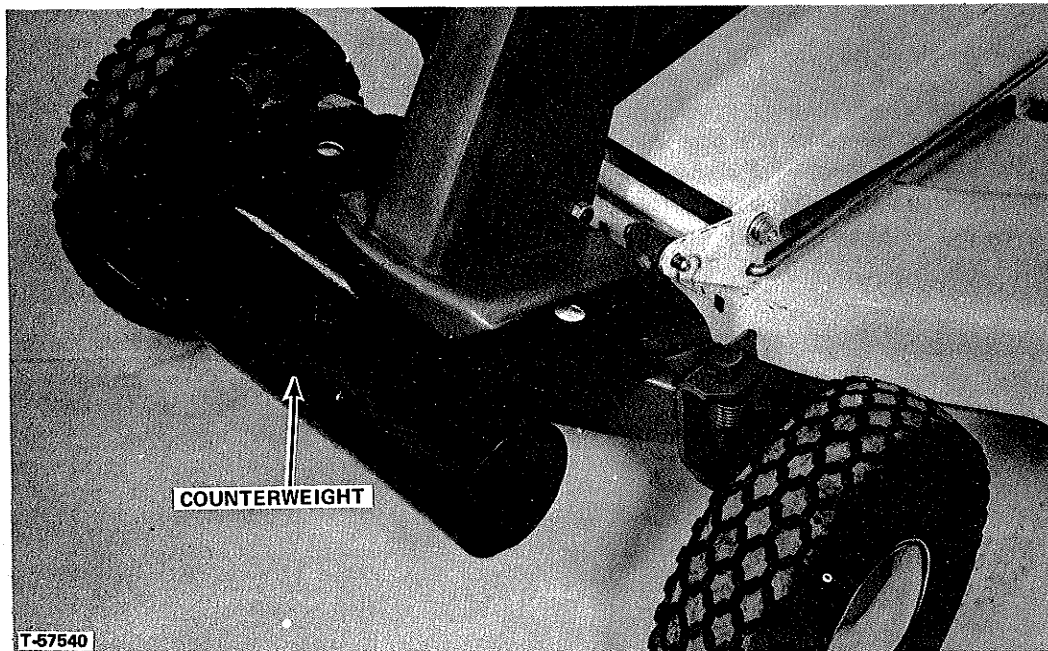


FIGURE 27

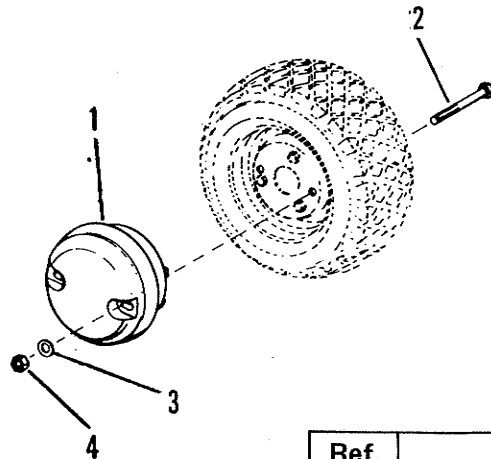
COUNTERWEIGHT

See Figure 27. The counterweight is recommended for stability when mowing slopes of 15-30%. Mowing slopes greater than 30% is not recommended. It is also of assistance when using the rear mounted grass attachment. Two carriage bolts will attach counterweight to factory drilled holes as shown in illustration.

REAR WHEEL WEIGHTS

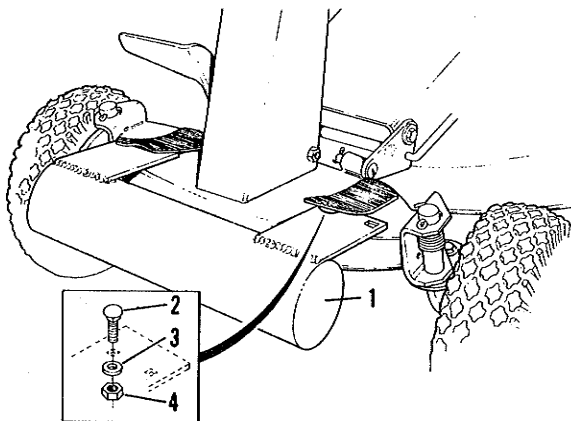
Two rear wheel weights are recommended when mowing across 20 to 30% slopes. Mowing across slopes greater than 30 percent is not recommended.

WHEEL WEIGHT – MFG. NO. 1600012



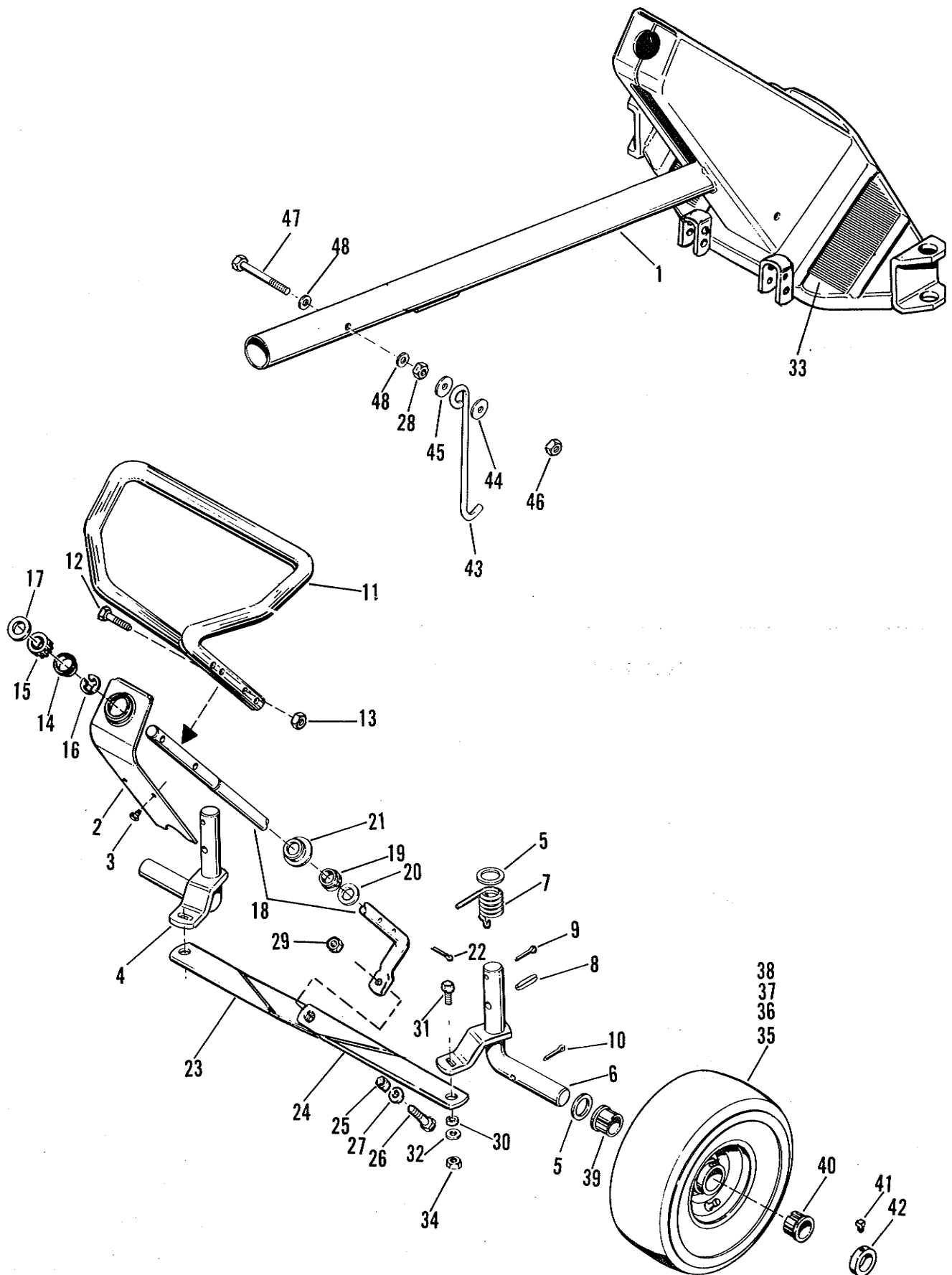
Ref. No.	Part No.	Qty.	Description
1	162097	1	WEIGHT, Wheel
2	920260	2	CAPSCREW, Hex, 3/8-16 x 4-1/4
3	917378	2	WASHER, Flat, 3/8
4	916950	2	NUT, Hex, 3/8-16

COUNTERWEIGHT (MFG. NO. 1600351)



Ref. No.	Part No.	Qty.	Description
1	177397	1	COUNTERWEIGHT ASSY.
2	923232	2	BOLT, Carriage, 3/8-16 x 1
3	916965	2	LOCKWASHER, 3/8
4	916950	2	NUT, full hex, 3/8-16

FRAME & FRONT WHEEL STEERING GROUP

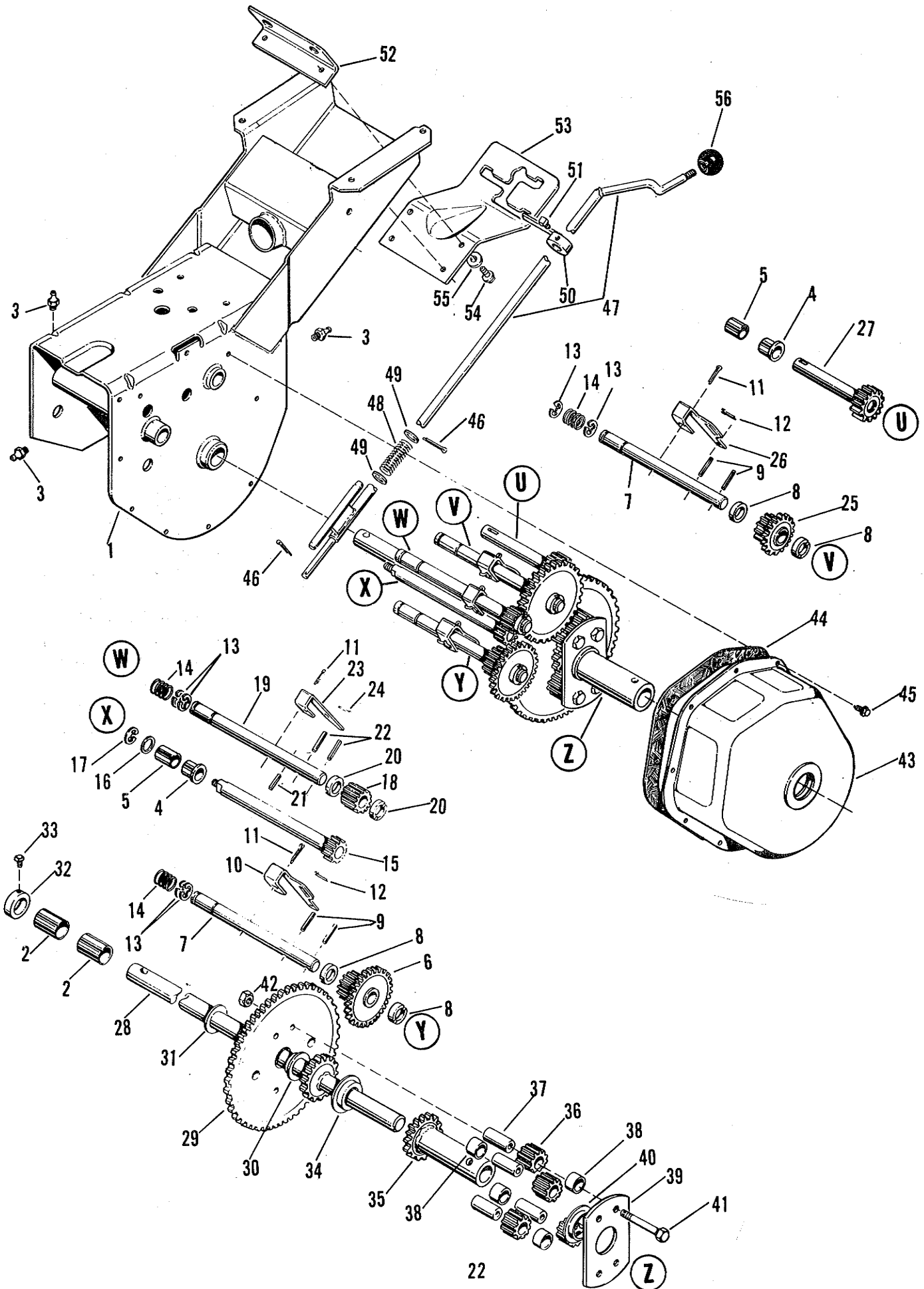


FRAME & FRONT WHEEL STEERING GROUP

Ref. No.	Part No.	Qty.	Description
1	1609448	1	FRONT FRAME AND AXLE ASSY.
2	158215	1	COVER, Steering support
3	923735	2	SCREW, self tapping, No. 10 x 3/8
4	158545	1	L.H. SPINDLE ASSY.
5	101022	4	WASHER
6	158547	1	R.H. SPINDLE ASSY.
7	121011	2	SPRING
8	925362	2	PIN, roll, 5/16x 1-1/4
9	918448	2	PIN, cotter, 3/32 x 1
10	919314	2	PIN, cotter, 3/16 x 1-1/4
11	158574	1	HANDLE, Steering
12	921221	2	CAPSCREW, Hex, 5/16-18 x 1-1/2
13	923362	2	LOCKNUT, 5/16-18
14	158222	1	CUP, Steering
15	157077	1	BUSHING, steering
16	157241	1	RING, Retaining
17	158223	1	WASHER
18	1608948	1	SHAFT, Steering
19	159026	1	BUSHING
20	108181	1	WASHER
21	158012	1	CUP, Steering
22	919430	2	PIN, Cotter, 5/32 x 1-1/4
23	158225	1	LINK, Steering, l.h.
24	158226	1	LINK, Steering, r.h.
25	158227	1	SPACER
26	921969	1	CAPSCREW, Hex, 3/8-16 x 1-1/2

Ref. No.	Part No.	Qty.	Description
27	917378	1	WASHER, Plain, 3/8
28	923428	1	LOCKNUT, Full, hex, 3/8-16
29	923428	1	LOCKNUT, 3/8-16
30	153081	2	SPACER
31	928728	2	SCREW, Whiz-lock, 3/8-16 x 1
32	917378	2	WASHER, Plain, 3/8
33	158428	2	PAD, Foot
34	923428	2	LOCKNUT, 3/8-16
35	1608379	2	FRONT WHEEL & TIRE ASSEMBLY
36	1608380	2	WHEEL
37	163108	2	TIRE
38	163109	2	TUBE
39	163110	4	BEARING
40	163111	4	BEARING, Relief
41	928691	2	SETSCREW, 5/16-18 x 5/16
42	8021010	2	COLLAR, Set
43	176709	1	HOOK
44	917378	1	WASHER, Plain, 3/8
45	159134	1	WASHER, Special
46	923428	1	LOCKNUT, hex, full, 3/8-16
47	923938	1	CAPSCREW, Hex, 3/8-16 x 3-1/2
48	917642	2	WASHER, Plain, 5/16

TRANSMISSION GROUP



TRANSMISSION GROUP

Ref. No.	Part No.	Qty.	Description
1	1608955	1	FRAME ASSEMBLY
2	158337	2	BUSHING
3	912808	3	FITTING, Grease
4	158569	2	BEARING, Bronze
5	156064	2	BEARING, Bronze
6	158542	1	GEAR & BEARING ASSY.
7	158541	2	SHAFT, Intermediate
8	158561	4	COLLAR, Thrust
9	918111	4	PIN, Roll, 1/8 x 1
10	158563	1	LINK, Shift, Lo
11	919314	3	PIN, Cotter, 3/16 x 1-1/4
12	918448	2	PIN, Cotter, 3/32 x 1
13	1602155	6	RING, "E"
14	158578	3	SPRING
15	106944	1	GEAR & SHAFT ASSY.
16	153079	1	WASHER
17	153124	1	RING, Retaining
18	158557	1	PINION, Reverse
19	158534	1	SHAFT, Reverse
20	158562	2	COLLAR, Thrust
21	921450	1	PIN, Roll, 5/32 x 1
22	916168	2	PIN, Roll, 1/8 x 3/4
23	158564	1	LINK, Reverse shift
24	923360	1	PIN, Cotter, 1/16 x 3/4
25	158570	1	GEAR & BEARING ASSY.
26	158535	1	LINK, Shift, Hi
27	158548	1	BRAKE SHAFT ASSY.
28	158352	1	SHAFT, Axle, L.H.
29	158530	1	GEAR, Drive
30	158356	1	BUSHING

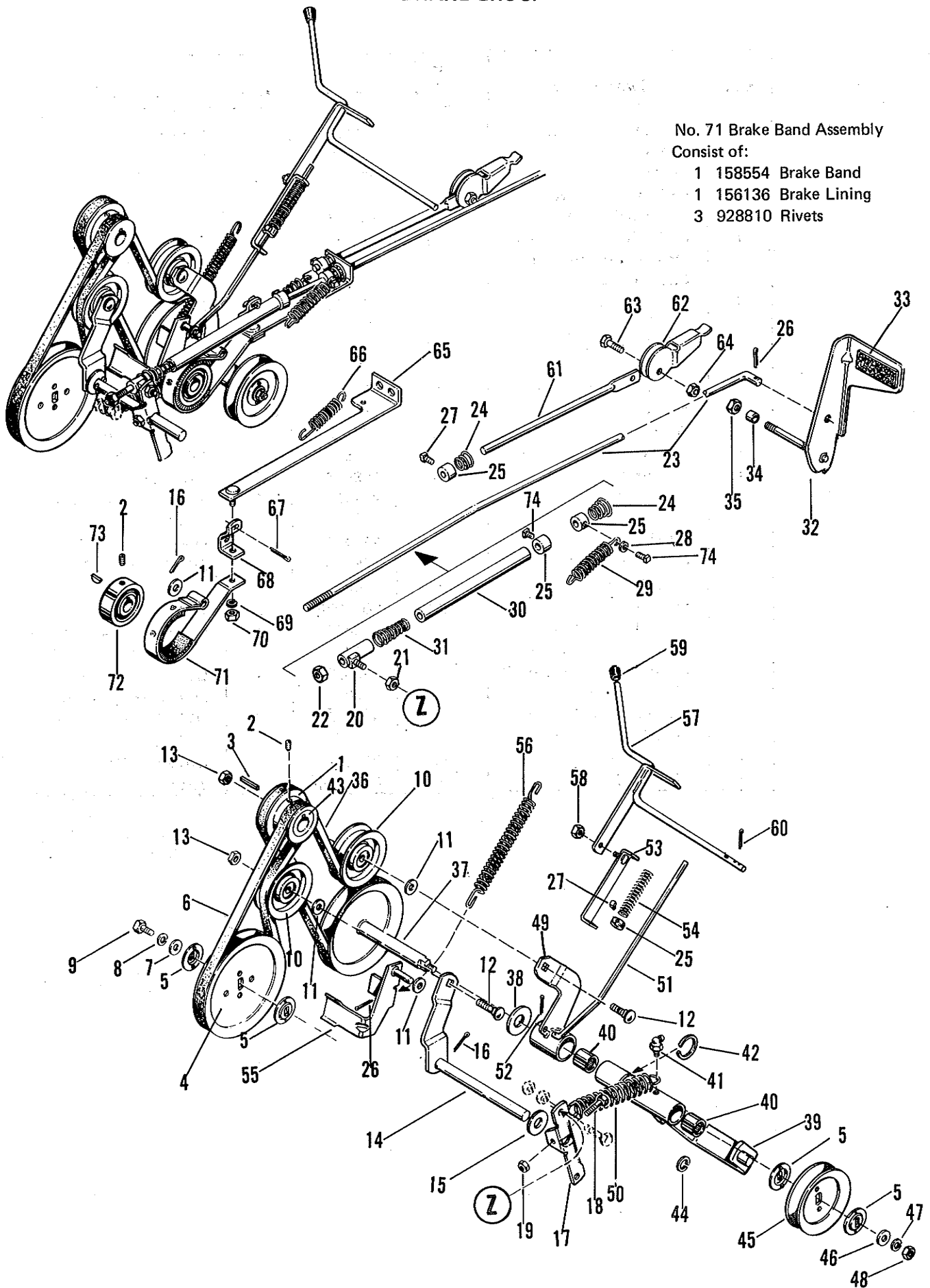
Ref. No.	Part No.	Qty.	Description
31	118252	1	WASHER
32	158537	1	COLLAR, Set
33	928709	1	SETSCREW, 5/16 - 18 x 3/8
34	158358	1	CUP, Thrust
35	158359	1	R.H. AXLE W/ BUSHING ASSEMBLY
36	158579	4	PINION
37	121083	4	SPINDLE, Pinion
38	121084	4	SPACER, Pinion
39	158364	1	PLATE
40	158365	1	BUSHING
41	921972	4	CAPSCREW, Hex, 3/8 - 16 x 2-1/4
42	923428	4	LOCKNUT, 3/8 - 16
43	158521	1	GEAR CASE ASSY.
44	158524	1	GASKET
45	927428	9	SCREW, Taptite, 1/4-20 x 3/8
46	918452	2	PIN, Cotter, 1/8 x 1
47	176438	1	SHIFT ROD ASSY.
48	158576	1	SPRING
49	8051056	2	WASHER, spacer
50	176419	1	LEVER ASSEMBLY
51	928721	1	SETSCREW, 5/16 - 18 x 1/2
52	1609280	1	GUIDE, Shift rod
53	172923	1	PLATE, shift pattern
54	927429	4	SCREW, Taptite, 1/4-20 x 5/8
55	917377	4	WASHER, Plain, 1/4
56	8021050	1	BALL

BRAKE GROUP

No. 71 Brake Band Assembly

Consist of:

- 1 158554 Brake Band
- 1 156136 Brake Lining
- 3 928810 Rivets

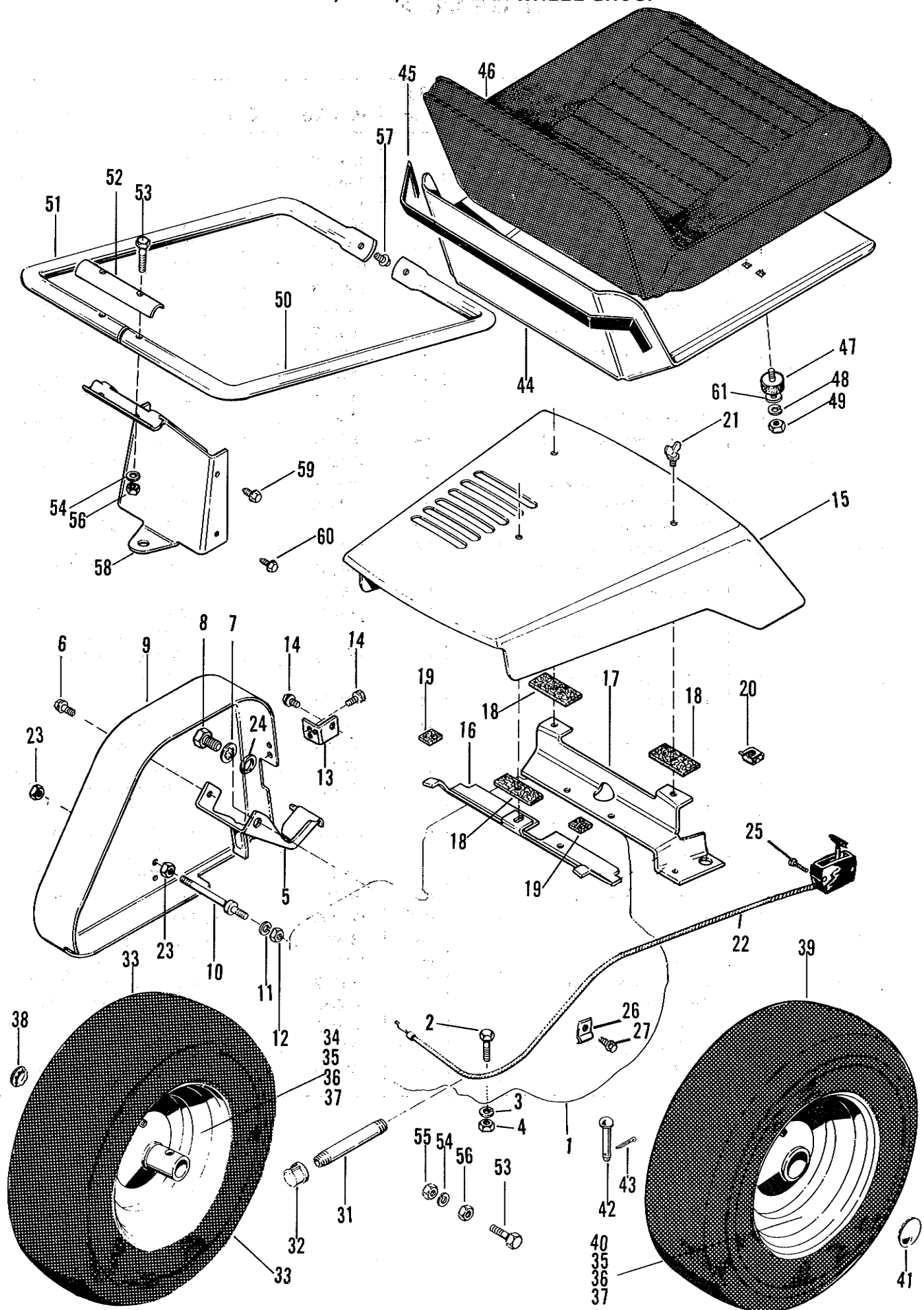


BRAKE GROUP

Ref. No.	Part No.	Qty.	Description
1	176584	1	PULLEY, Engine
2	911712	2	SETSCREW, 5/16 - 18 x 5/16
3	8221042	1	KEY
4	158377	1	PULLEY
5	158378	4	WASHER, Special
6	158573	1	BELT, "V"
7	917642	1	WASHER, Plain, 5/16
8	917356	1	LOCKWASHER, 5/16
9	921333	1	CAPSCREW, Hex, 5/16 - 18 x 1
10	154534	2	PULLEY, Idler
11	917642	4	WASHER, Plain, 5/16
12	922249	2	BOLT, Carriage, 3/8 - 16 x 1
13	923428	2	LOCKNUT, full hex, 3/8-16
14	158537	1	IDLER ARM ASSY.
15	918430	1	WASHER, plain, 7/16
16	918452	2	PIN, Cotter, 1/8 x 1
17	158536	1	LEVER, Brake & clutch
18	921960	1	CAPSCREW, Hex, 1/4 - 20 x 1
19	923358	1	LOCKNUT, full hex, 1/4 - 20
20	156303	1	ROD GUIDE ASSY.
21	923362	2	LOCKNUT, full hex, 5/16 - 18
22	924433	1	NUT, Elastic Stop, 5/16 - 18
23	158575	1	ROD, Clutch
24	153010	2	SPRING
25	8191022	4	COLLAR, Set
26	918448	2	PIN, Cotter, 3/32 x 1
27	928804	2	SETSCREW, 1/4-20 x 3/8
28	916955	1	WASHER, Plain, 3/16
29	118495	1	SPRING
30	172179	1	SPACER
31	157041	1	SPRING
32	158604	1	FOOT PEDAL ASSY.
33	162098	1	PAD, Pedal
34	1608657	1	SPACER
35	923428	1	LOCKNUT, full hex, 3/8 - 16

Ref. No.	Part No.	Qty.	Description
36	121398	1	BELT, "V"
37	158630	1	PULLEY & SHAFT ASSY.
38	119018	1	WASHER
39	158632	1	HOUSING ASSEMBLY
40	108054	2	BEARING, Needle
41	915019	1	FITTING, Grease
42	158396	1	RING, Retaining
43	158498	1	PULLEY, Trans. Drive
44	158399	1	RING, Retaining
45	1609004	1	PULLEY
46	917642	1	WASHER, Plain, 5/16
47	916965	1	LOCKWASHER, 3/8
48	916950	1	NUT, full, hex, 3/8 - 16
49	158461	1	IDLER LEVER ASSY.
50	154369	1	SPRING, Idler pulley
51	158609	1	ROD, Clutch
52	918448	1	PIN, Cotter, 3/32 x 1
53	158406	1	ROD GUIDE ASSY.
54	163103	1	SPRING
55	176587	1	P.T.O. BRAKE ASSY.
56	175290	1	SPRING
57	176427	1	CONTROL HANDLE ASSEMBLY
58	923362	1	LOCKNUT, full hex, 5/16 - 18
59	158437	1	KNOB
60	918452	2	PIN, Cotter, 1/8 x 1
61	176431	1	ROD, Brake
62	176425	1	LEVER
63	921959	1	CAPSCREW, Hex, 1/4 - 20 x 5/8
64	923358	1	LOCKNUT, full hex, 1/4 - 20
65	176429	1	BRAKE GUIDE ASSY.
66	153121	1	SPRING
67	122003	1	PIN, Cotter, 3/16 x 1-1/4
68	1609261	1	LEVER, Brake
69	916964	1	LOCKWASHER, 1/4
70	916622	1	NUT, full hex, 1/4 - 20
71	158552	1	BRAKE BAND ASSY.
72	165067	1	DRUM, Brake
73	930669	1	KEY
74	930539	2	SETSCREW, 1/4-20 x 5/8

ENGINE, SEAT, AND REAR WHEEL GROUP

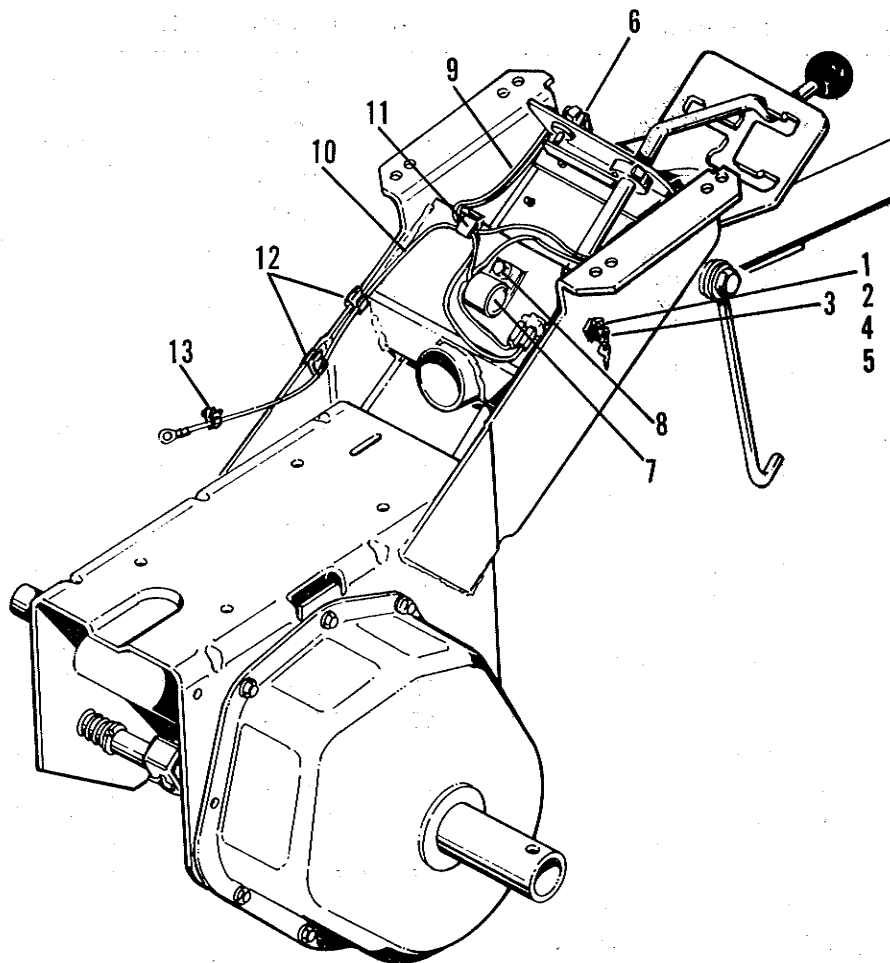


ENGINE, SEAT, AND REAR WHEEL GROUP

Ref. No.	Part No.	Qty.	Description
1	1608556	1	ENGINE
2	921221	4	CAPSCREW, Hex, 5/16 - 18 x 1-1/2
3	917356	4	LOCKWASHER, 5/16
4	917372	4	NUT, full hex, 5/16 - 18
5	158527	1	STOP, Belt
6	924856	1	SCREW, Taptite, 5/16 - 18 x 1/2
7	909589	1	LOCKWASHER, (Int.) 1/2
8	121370	1	CAPSCREW, Hex, 1/2 - 20 x 1
9	1609445	1	GUARD, Pulley
10	158418	1	STUD
11	917356	1	LOCKWASHER, 5/16
12	917372	1	NUT, full hex, 5/16-18
13	1609444	1	BRACKET, pulley guard
14	924856	2	SCREW, taptite, 5/16
15	158515	1	HOOD ASSEMBLY
16	158449	1	SUPPORT, Rear hood
17	174746	1	SUPPORT, Front hood
18	121399	3	GASKET, Felt
19	157582	2	BUTTON, Bumper
20	928701	3	NUT, Tinnerman
21	928693	3	SCREW, Thumb
22	1608962	1	THROTTLE & CHOKE ASSEMBLY
23	923362	2	LOCKNUT, hex, 5/16-18
24	918431	1	WASHER, steel plated, 1/2
25	928732	2	SCREW, Taptite 10-24 x1
26	926271	1	CLAMP, Cable
27	924856	1	SCREW, Taptite, 5/16-
31	158610	1	NIPPLE, Pipe
32	901751	1	CAP, Pipe
33	1608381	1	L.H. REAR WHEEL &

Ref. No.	Part No.	Qty.	Description
34	1608382	1	WHEEL ASSY., L.H.
35	153037	2	TIRE
36	153038	2	TUBE
37	171270	2	CAP, Valve
38	158433	1	BUTTON, Plug
39	1608383	1	R. H. REAR WHEEL & TIRE ASSEMBLY
40	1608384	1	R.H. WHEEL ASSY.
41	158436	1	BUTTON, Plug
42	118053	2	PIN
43	918451	2	PIN, Cotter, 1/8 x 3/4
44	1610362	1	PANEL, Seat
45	159177	1	TAPE
46	1610249	1	PAD, Seat
47	157094	4	CONNECTOR, Cushion
48	917356	8	LOCKWASHER, 5/16
49	917372	8	NUT, full hex, 5/16 - 18
50	174629	1	HANDLE, R.H. Rear
51	158583	1	HANDLE, L.H. Rear
52	158584	1	BRACKET, handle support
53	921221	3	CAPSCREW, Hex, 5/16 - 18 x 1-1/2
54	917356	3	LOCKWASHER, 5/16
55	923362	1	LOCKNUT, full hex, 5/16 - 18
56	917372	3	NUT, Full Hex, 5/16 - 18
57	925003	2	SCREW, Taptite, 1/4-20 x 1/2
58	1608938	1	PLATE, Rear hitch
59	924856	3	SCREW, Taptite, 5/16-18
60	925003	1	SCREW, Taptite, 1/4-20 x 1/2
61	919381	2	WASHER, Flat, 11/32

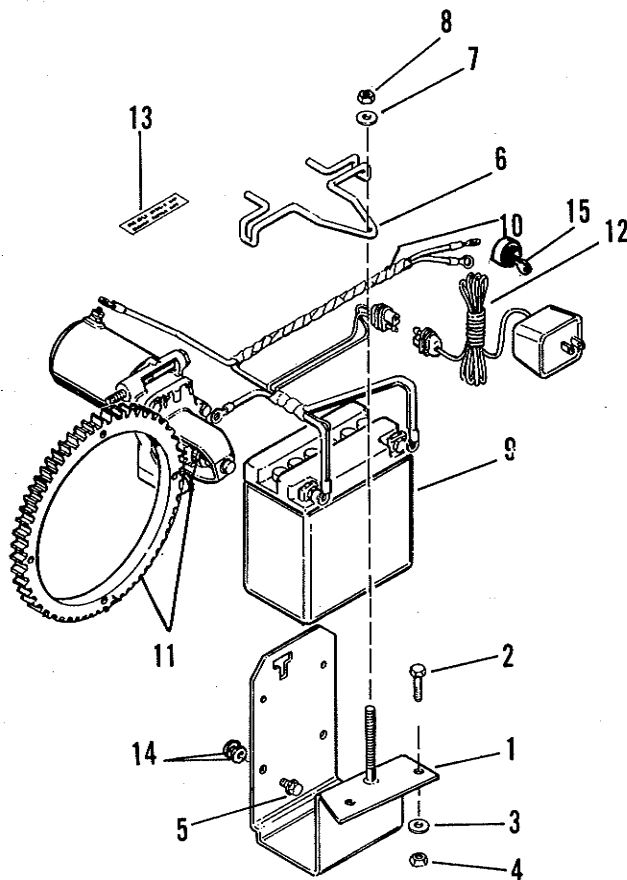
WIRING



Ref. No.	Part No.	Qty.	Description
1	177163	1	SWITCH, Ignition
2	177164	1	ADAPTOR
3	122203	1	KEY & RING ASSY.
4	918906	1	LOCKWASHER, 5/8
5	122234	1	NUT, Hex
6	1609279	2	SWITCH, Safety
7	1609276	1	INTERLOCK, Ignition

Ref. No.	Part No.	Qty.	Description
8	927428	1	SCREW, Self-tapping, 1/4-20 x 3/8
9	1609277	1	LEAD
10	176480	1	WIRE
11	176675	1	CLIP, Speed cable
12	176701	2	CLIP, Speed cable
13	176687	1	CLIP, Speed cable

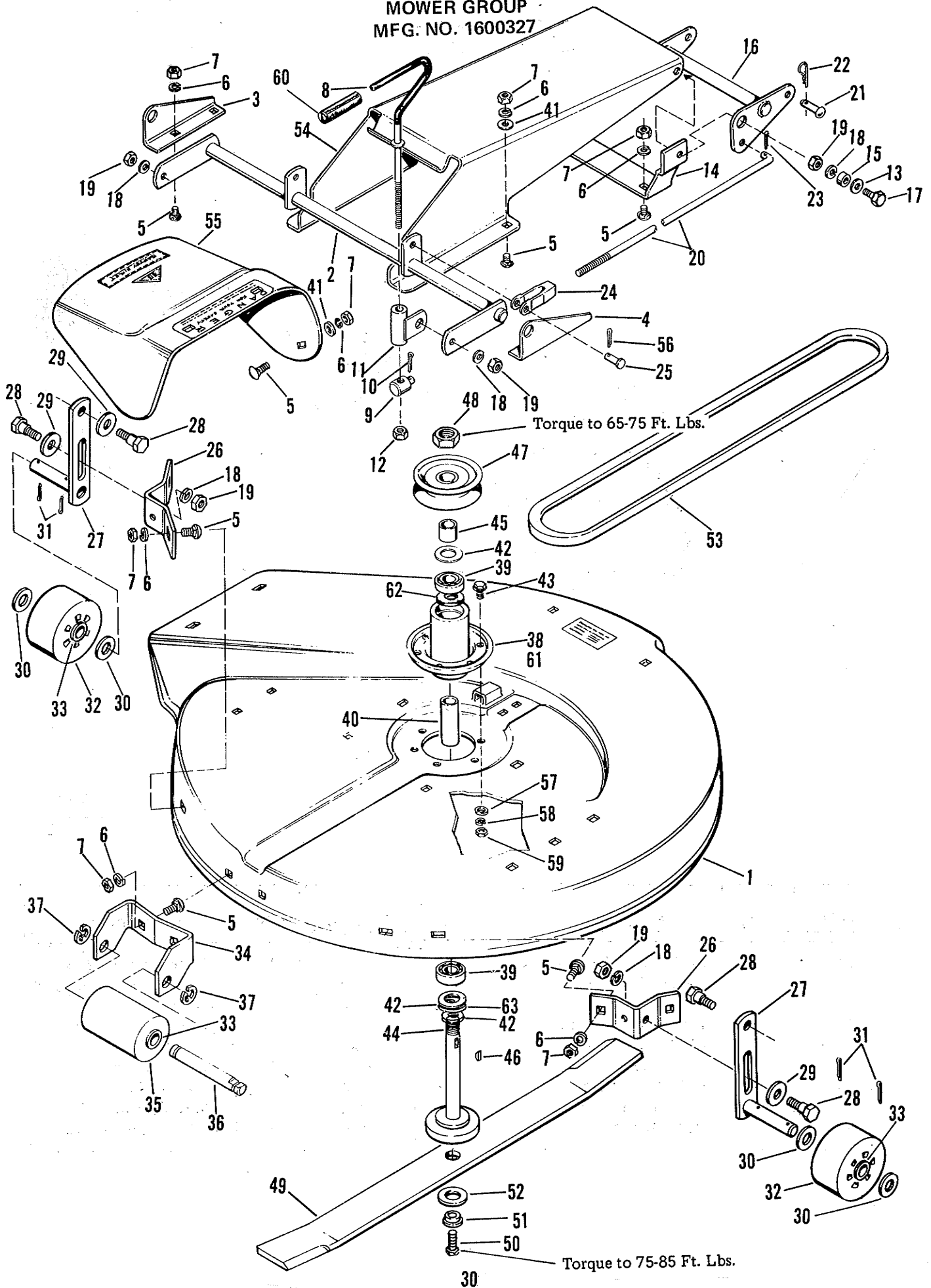
**12 VOLT STARTER KIT
(MFG. NO. 1600312)**



Ref. No.	Part No.	Qty.	Description
1	1652163	1	BATTERY SUPPORT ASSY.
2	921977	2	CAPSCREW, Hex, 5/16-18 x 1-1/4
3	917642	2	WASHER, Flat, 5/16
4	923362	2	LOCKNUT, full hex, 5/16-18
5	925359	2	SCREW, Washer hd., taptite, 5/16-18 x 3/4
6	174412	1	HOLD DOWN, Battery

Ref. No.	Part No.	Qty.	Description
7	917377	1	WASHER, Plain 1/4
8	923358	1	LOCKNUT, full hex, 1/4-20
9	174648	1	BATTERY
10	176627	1	HARNESS ASSEMBLY
11	1608612	1	STARTER KIT
12	170046	1	CHARGER, Battery
13	174885	1	FILM, Ignition
14	917642	2	WASHER, Flat, 5/16
15	122218	1	SWITCH, Ignition, Key

MOWER GROUP
MFG. NO. 1600327

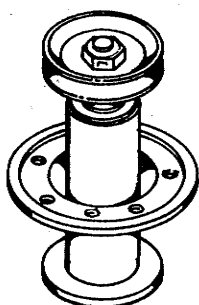


**MOWER GROUP
MFG. NO. 1600327**

Ref. No.	Part No.	Qty.	Description
1	1611083	1	HOUSING, Mower, 26"
2	1611112	1	LEVER ASSEMBLY
3	1611091	1	BRACKET, L.H. Pivot
4	1611100	1	BRACKET, R.H. Pivot
5	919413	19	BOLT, Carriage, 5/16-18 x 5/8
6	917356	19	LOCKWASHER, 5/16
7	917372	19	NUT, full hex, 5/16-18
8	176775	1	HANDLE
9	108172	1	PIVOT
10	922000	1	PIN, Cotter, 3/32 x 5/8
11	1653599	1	ROD GUIDE ASSY.
12	923428	2	LOCKNUT, Full hex, 3/8-16
13	917378	3	WASHER, Plain, 3/8
14	1611094	1	BRACKET
15	153081	2	SPACER
16	1611109	1	BELL CRANK ASSY.
17	921210	2	CAPSCREW, Hex, 3/8-16 x 1
18	918448	6	LOCKWASHER, 3/8
19	916950	6	NUT, full hex, 3/8-16
20	176768	2	ROD, Adjusting
21	105249	2	PIN, Inner
22	176012	2	CLIP, Hairpin
23	918447	2	PIN, Cotter, 3/32 x 3/4
24	108157	2	CLEVIS
25	923087	2	PIN, Yoke
26	1611118	2	BRACKET, roller support
27	1611121	2	ROLLER SUPPORT ASSEMBLY
28	1602186	4	BOLT, Shoulder
29	918430	3	WASHER, flat, 7/16
30	919387	4	WASHER
31	919314	4	PIN, Cotter, 3/16 x 1

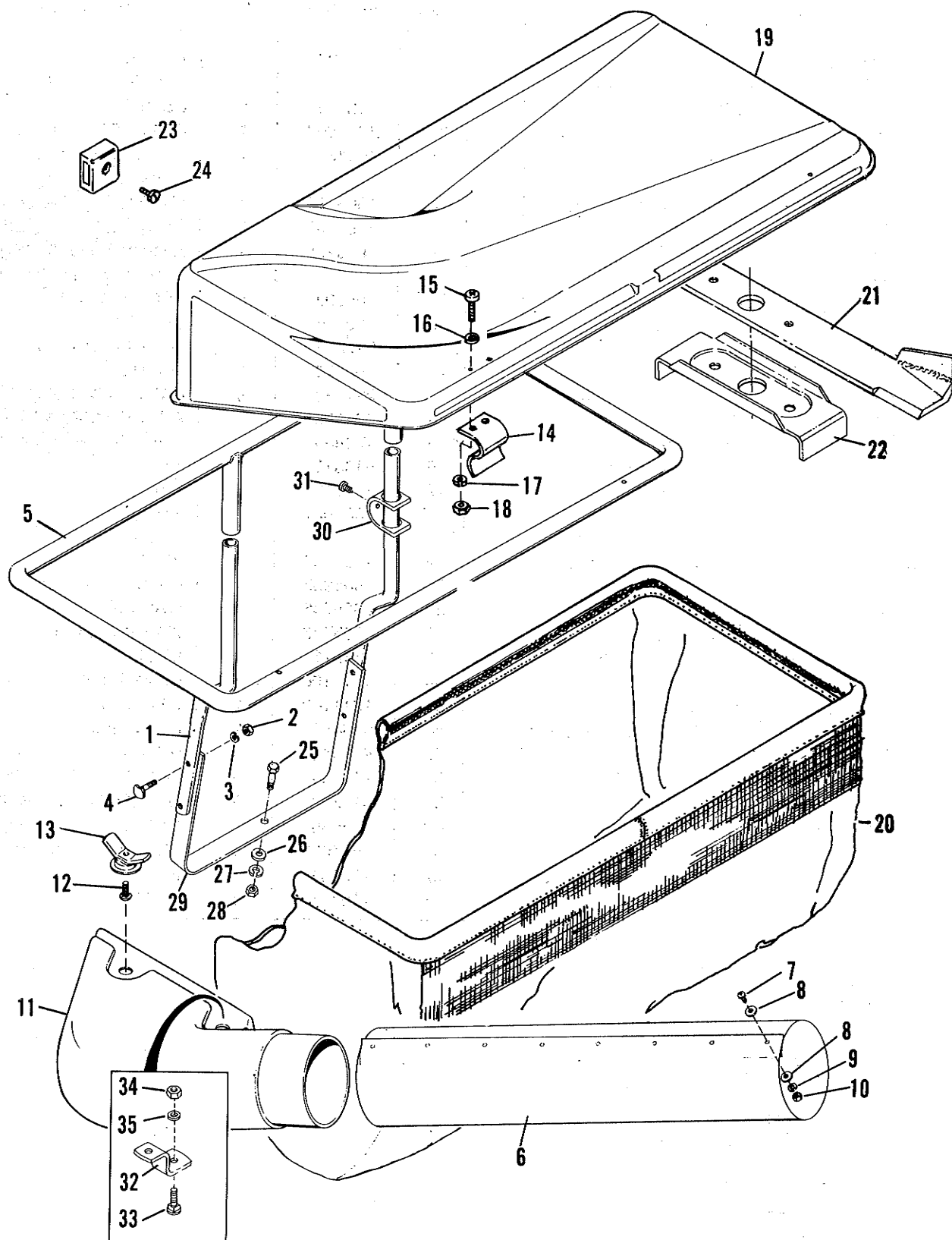
Ref. No.	Part No.	Qty.	Description
32	1603206	2	ROLLER ASSY., (Incl. two of Ref. No. 33)
33	108419	6	BUSHING
34	1611097	1	BRACKET, Center roller
35	108431	1	ROLLER ASSY., (Incl. 2 of Ref. No. 33)
36	1603205	1	SHAFT, Center roller
37	1602155	2	RING, "E"
38	1608705	1	ARBOR TUBE ASSY., (incl. ref. nos. 39,40,61,62)
39	108202	2	BEARING, Ball
40	1602265	1	SPACER
41	917642	7	WASHER, Plain, 5/16
42	108472	3	WASHER
43	921332	6	CAPSCREW, Hex, 5/16
44	174603	1	ARBOR ASSEMBLY
45	174900	1	SPACER
46	918312	1	KEY
47	1653128	1	PULLEY
48	1607021	1	NUT, hex, full jam, 3/4-16
49	1607534	1	BLADE
50	1605933	1	CAPSCREW, Hex
51	1605745	1	WASHER, Shoulder
52	1605746	1	WASHER, Belleville
53	174911	1	BELT
54	1611106	1	COVER, Belt
55	1611103	1	DEFLECTOR
56	918447	2	PIN, Cotter
57	917342	6	WASHER, Plain, 5/16
58	917356	6	LOCKWASHER, 5/16
59	917372	6	NUT, Full hex, 5/16-18
60	176985	1	GRIP
61	1611088	1	TUBE ASSY., Arbor
62	108134	1	RING, Backing
63	108257	1	WASHER, Flat

**26" ARBOR ASSEMBLY
KIT NO. 103268**



includes part numbers
38, 39 (2), 42 (3), 44, 45,
46, 47, 48, 61, 62, 63

REAR MOUNTED GRASS CATCHER (MFG. NO. 1600383)
with ADAPTER KIT (MFG. NO. 1600331)



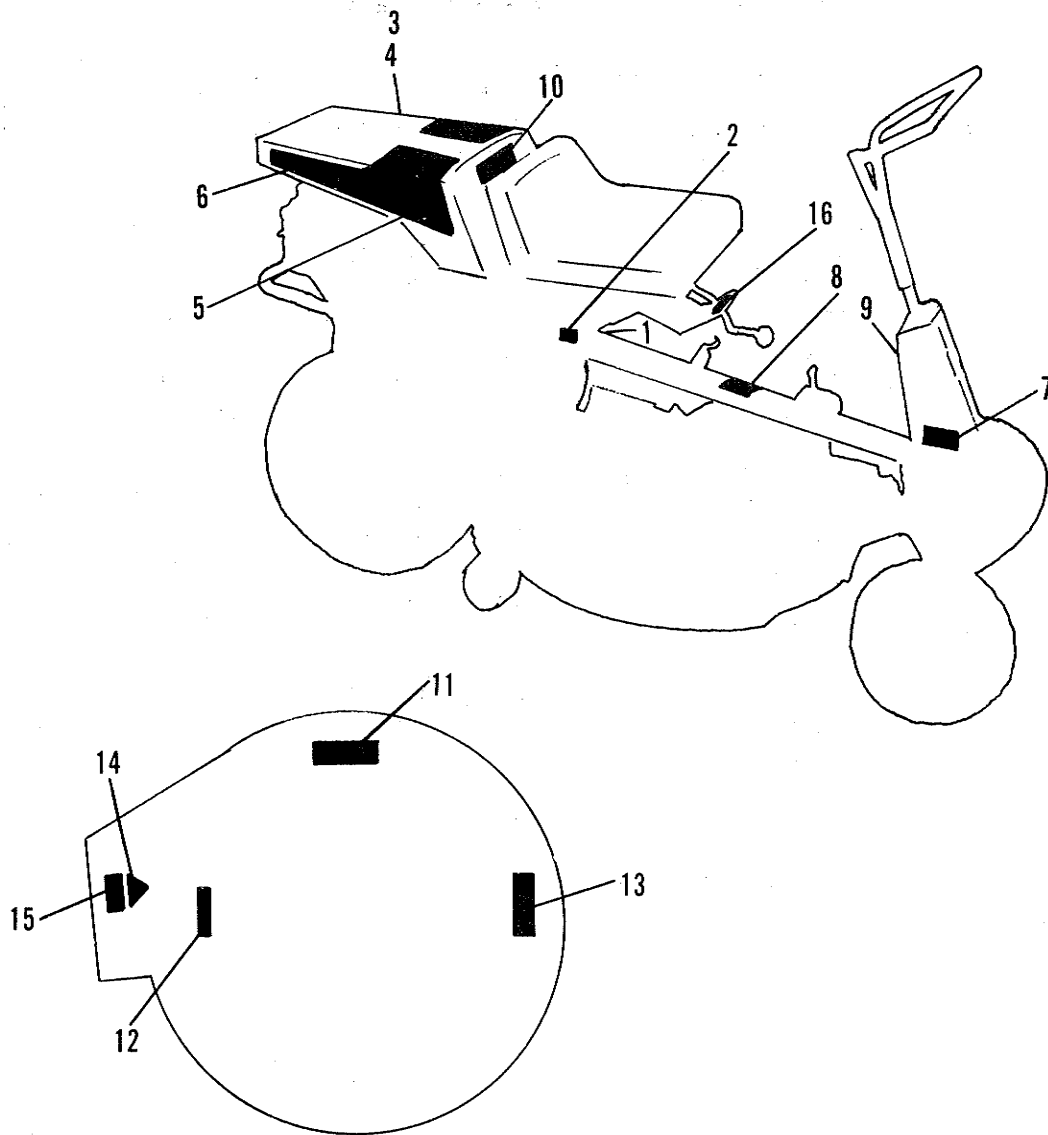
**REAR MOUNTED GRASS CATCHER (MFG. NO. 1600383)
with ADAPTER KIT (MFG. NO. 1600331)**

Ref. No.	Part No.	Qty.	Description
1	177096	2	SUPPORT, Vertical
2	917372	4	NUT, Hex, 5/16-18
3	917356	4	LOCKWASHER, 5/16
4	177249	4	BOLT, Curved-head
5	178364	1	SUPPORT ASSEMBLY
6	177104	1	TUBE, Discharge
7	930531	8	SCREW, Phillips, 10-32 x 1/2
8	916955	16	WASHER, Flat, 3/16
9	909055	8	LOCKWASHERS, No. 10
10	917415	8	NUT, Hex, 10-32
11	176871	1	ADAPTER
12	920563	2	BOLT, Carriage, 5/16-18 x 1
13	123103	2	NUT ASSEMBLY
14	178609	4	CLIP
15	930531	8	SCREW, Phillips, 10-32 x 1/2
16	916955	8	WASHER, Flat, 3/16
17	909055	8	LOCKWASHER, No. 10

Ref. No.	Part No.	Qty.	Description
18	917415	8	NUT, Hex, 10-32
19	177019	1	COVER
20	177086	1	BAG, Grass
21	177394	1	BLADE ASSEMBLY
22	177395	1	STIFFENER, Blade
23	177497	1	DEFLECTOR, Muffler
24	177498	1	SCREW
25	907731	1	CAPSCREW, Hex, 3/8-16 x 1
26	917378	1	WASHER, Flat, 3/8
27	916965	1	LOCKWASHER, 3/8
28	916950	1	NUT, Hex, 3/8-16
29	177392	1	BRACKET, Support
30	177391	2	CLAMP
31	922123	2	SCREW, Self tapping, 1/4-20 x 3/8
32	177389	1	ADAPTER, Support
33	930685	1	BOLT, Carriage, 5/16- 18 x 5/8
34	917356	1	LOCKWASHER, 5/16
35	917372	1	NUT, Hex, 5/16-18

Ref. Nos. 21 through 35 represent Adapter Kit (Mfg. NO. 1600331).

FILMS AND DECALS



Ref. No.	Part No.	Qty.	Description
1	158452	1	FILM, Clutch
2	174886	1	FILM, Switch
3	1651924	1	FILM, 3005 L.H.
4	1651925	1	FILM, 3005 L.H. Insert
5	1651926	1	FILM, 3005 R.H.
6	1651927	1	FILM, 3005 R.H. Insert
7	174924	1	FILM, Instruction, Pedal
8	1609061	1	FILM, Parking brake
9	1607336	1	FILM, Tire inflation
10	1609232	1	DECAL, Safety, Black
11	1601919	1	TRANSFER, Patent
12	176719	1	DECAL, Danger
13	176720	1	DECAL, Caution
14	1653205	1	DECAL, OPEI
15	1608445	1	DECAL, Safety
16	172989	1	FILM, Shift pattern