Owner's Operating Service Instruction Manual

10¢

Model Nos.
136-495A
136-497A

- ASSEMBLY
- OPERATION
- REPAIR PARTS

38" RIDING MOWERS

MTD PRODUCTS INC • 5389 WEST 130th STREET • P. O. BOX 2741 CLEVELAND OHIO 44111
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FORM NO. 770-6148

IMPORTANT

It is suggested that this manual be read in its entirety before attempting to assemble or operate. Keep this manual in a safe place for future reference and for ordering replacement parts.

This unit is shipped WITHOUT GASOLINE or OIL. After assembly, see operating section of this manual for proper fuel and amount.

SAFE OPERATION PRACTICES FOR LAWN TRACTORS

1. Know the controls and how to stop quickly—READ THE OWNER'S MANUAL.
2. Do not allow children to operate vehicle. Do not allow adults to operate it without proper instruction.
3. Do not carry passengers. **Keep children and pets a safe distance away.**
4. Clear work area of objects which might be picked up and thrown.
5. Disengage all attachment clutches and shift into neutral before attempting to start engine.
6. Disengage power to attachment(s) and stop engine before leaving operator position.
7. Disengage power to attachment(s) and stop engine before making any repairs or adjustments.
8. Disengage power to attachment(s) when transporting or not in use.
9. 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.
10. Do not stop or start suddenly when going uphill or downhill. Mow up and down face of steep slopes; never across the face.
11. Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.
12. Stay alert for holes in terrain and other hidden hazards.
13. 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 owner's manual.
14. Watch out for traffic when crossing or near roadways.
15. When using any attachments never direct discharge of material toward bystanders nor allow anyone near vehicle while in operation.
16. 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.
17. Keep the vehicle and attachments in good operating condition, and keep safety devices in place. Use guards as instructed in owner's manual.
18. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
19. Never store the 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.
20. To reduce fire hazard keep engine free of grass, leaves or excessive grease.
21. The 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.
22. Do not change the engine governor settings or overspeed the engine.
23. When using the vehicle with mower, proceed as follows:
    (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 chute.
    (4) Check blade mounting bolts for proper tightness at frequent intervals.
24. Check grass catcher bags frequently for wear or deterioration. Replace with new bags for safety protection.
25. Look behind to make sure the area is clear before placing the transmission in reverse and backing up.

INDEX

ASSEMBLY

GRASS CATCHER Model No. 196-015A is available as optional equipment for the mowers shown in this manual.

WARNING

The mower should not be operated without the entire grass catcher or chute deflector in place.

NOTE

Under normal usage bag material is subject to wear, and should be checked periodically. Be sure any replacement bag complies with the mower manufacturer's recommendations.

For replacement bags, use only factory authorized replacement bag No. 764-0121.

IMPORTANT

After striking a foreign object, stop the engine. Remove wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.

The steering wheel and seat, with the necessary hardware, are easily assembled to the machine. The battery must be activated and installed as outlined in this section.

TIRE PRESSURE

FOR SHIPPING PURPOSES, THE TIRES ON YOUR UNIT MAY BE OVER-INFLATED. TIRE PRESSURE SHOULD BE REDUCED BEFORE UNIT IS PUT INTO OPERATION. PRESSURE SHOULD BE APPROXIMATELY 15 P.S.I. EQUAL TIRE PRESSURE SHOULD BE MAINTAINED ON ALL TIRES. MAXIMUM TIRE PRESSURE IS 30 P.S.I.

NOTE

Reference to right-hand or left-hand side of machine is from the driver's seat facing forward.

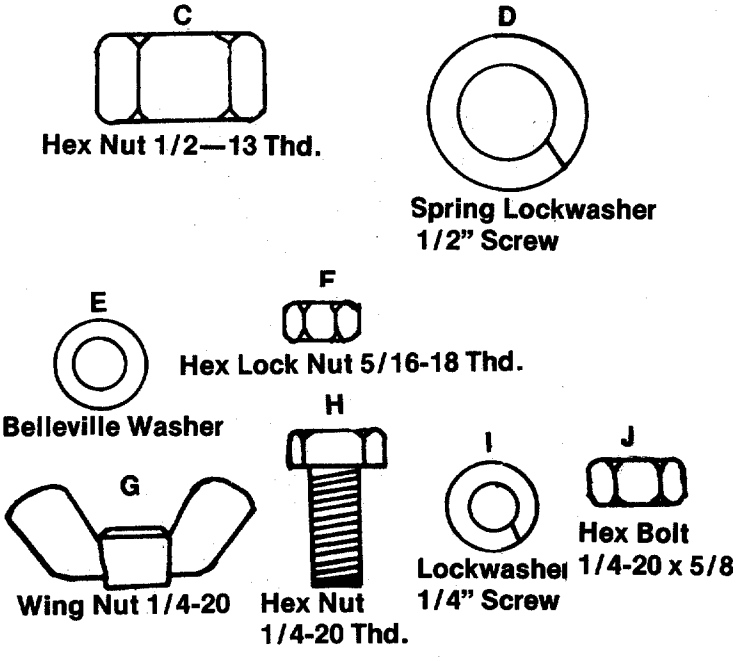


FIGURE 1. HARDWARE SUPPLIED

Step 1. Remove the lawn mower and all parts from the carton. Make certain that all loose parts and literature have been removed before the carton is discarded.

Step 2. Place steering wheel over steering shaft.

Step 3. Secure with Belleville Washer (E) and Hex Nut (F). See figure 2.

Step 4. Press the cap on the steering wheel by hand. See figure 2.

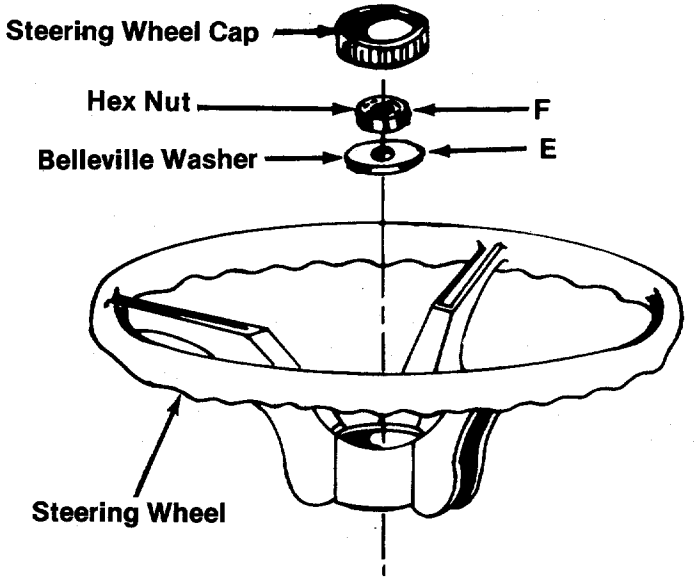


FIGURE 2. STEERING WHEEL ASSEMBLY

Step 5. Place seat and seat adjustment assembly on seat spring (center hole). Secure with Hex Nut (C) and Lockwasher (D). See figure 3.

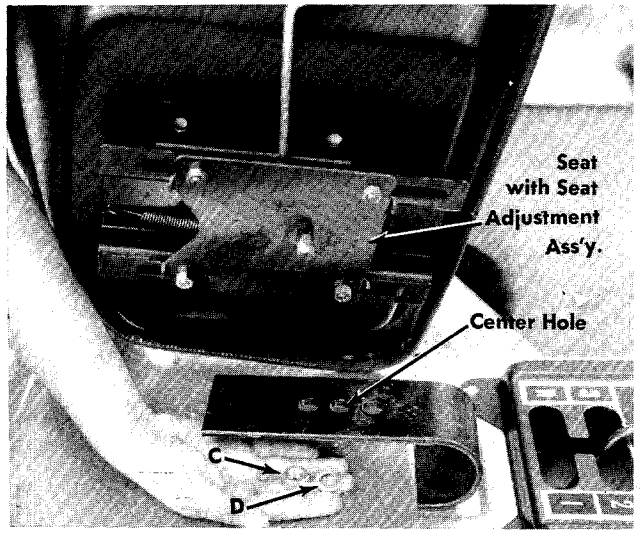


FIGURE 3. SEAT ASSEMBLY

NOTE

Check ALL nuts and bolts for correct tightness.

BATTERY INFORMATION FOR ELECTRIC START MODELS

WARNING

A. Battery acid must be handled with great care as it will blister the skin and damage clothing. It is advisable to wear goggles, rubber gloves, and a protective apron when working with it.

B. Neutralize acid spilled on clothing with dilute ammonia water or a water solution of baking soda. If acid gets on clothes, dilute it with clean water first, then neutralize.

C. If for any reason acid should be spattered in the eyes, wash it out immediately with clean cold water. Seek medical aid if discomfort continues.

D. Since battery acid is corrosive to metals, do not pour into any sink or drain. Rinse empty electrolyte containers and mutilate before discarding.

DANGER

BATTERIES CONTAIN SULFURIC ACID AND MAY CONTAIN EXPLOSIVE GASES (when electrolyte has been added)

A. Keep sparks, flame, cigarettes away.

B. Hydrogen gas is generated during charging and discharging.

C. Ventilate when charging or using in enclosed space.

D. When using a charger—to avoid sparks, NEVER connect or disconnect charger clips to battery while charger is turned on.

E. Always shield eyes, protect skin and clothing when working near batteries.

A. ACTIVATING THE BATTERY

1. Place battery to be filled on bench or workbench. NEVER activate battery in unit. Remove vent caps from all cells.
2. Fill each cell carefully using battery grade 1.250-1.265 specific gravity. Sulfuric acid to be 3/8" above the top of the separators or to the split ring.

3. Allow battery to set for 20 minutes to ½ hour. Add additional acid if necessary to bring it up to the proper level.
4. Replace the vent caps.
5. The battery can now be charged after the 20 minutes setting period. Battery can be SLOW CHARGED (DO NOT FAST CHARGE) at a maximum bench rate of 4-5 amperes until the specific gravity reading is 1.265-1.275. A charging rate in excess of this will buckle and warp the positive plates and perforate the separators. If electrolyte bubbles violently while charging, reduce charging rate until excessive bubbling action subsides, then continue charging until specific gravity is reached.

⚠ CAUTION

After battery has been in service, add only approved water. DO NOT ADD ACID.

B. TO INSTALL BATTERY

To install the battery in this unit, refer to next column.

C. MAINTENANCE

1. Check periodically (every two weeks or before and after charging) to be sure electrolyte level is 9/16" above separator plates. Add only distilled water or good quality drinking water. NEVER add additional acid or other chemicals to battery after initial acitvation.
2. The battery should be checked with a hydrometer after every 25 hours of operation. If the specific gravity is less than 1.225 remove battery and recharge.
3. Coat the terminals and exposed wiring with a thin coat of grease of petroleum jelly for longer service and protection against electrolyte corrosion.
4. The battery should be kept clean. Any deposits of acid should be neutralized with soda and water. Be careful not to get this solution in the cells.

D. STORAGE

1. Charge battery using normal methods. NEVER store discharged battery as it will not recover.
2. Store in cold, dry place.
3. Recharge battery whenever the specific gravity is less than 1.225 before returning to service or every two months, whichever occurs first.

E. COMMON CAUSES FOR BATTERY FAILURE ARE:

1. Overcharging
2. Undercharging
3. Lack of water
4. Loose hold downs and/or corroded connections
5. Excessive loads
6. Battery electrolyte substitutes
7. Freezing of electrolyte

NOTE

THESE FAILURES DO NOT CONSTITUTE WARRANTY.

LIMITED WARRANTY

For ninety (90) days of original retail purchase, the battery carries a limited warranty against faulty material or workmanship by the battery manufacturer.

INSTALLING THE BATTERY

1. Open the hood of the riding mower.
2. Place the battery in the battery case with the terminal to the front. See figure 4.

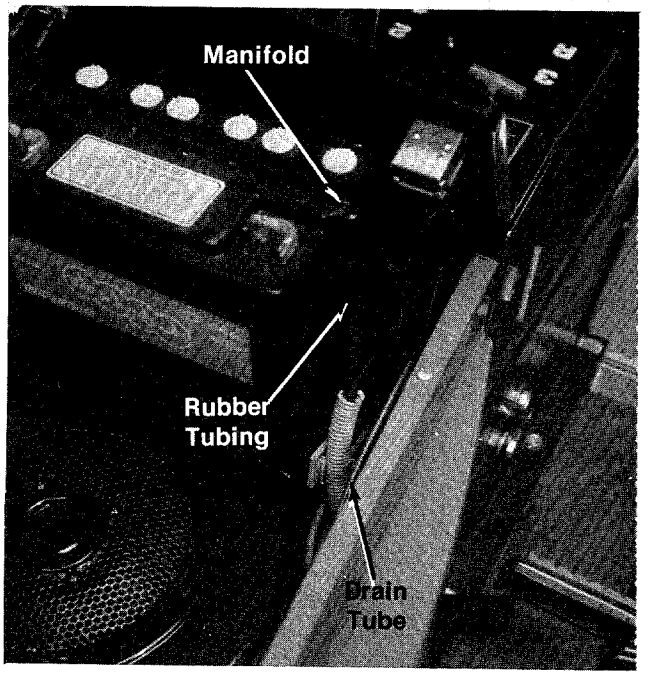


FIGURE 4.

3. Cut the black rubber tubing approximately 4 inches long.
4. Push the rubber tubing into the manifold of the battery and place the other end into the drain tube. See figure 4.

NOTE

The vented battery allows any gases or liquid from the battery to be carried to the rear of the mower through the drain tube.

5. Hook the hold down rods under the battery case and place the hold down over the manifold of the battery as shown in figure 5.
6. Secure the hold down with the wing nuts.
7. Attach the positive cable (from the starter solenoid) and the small wire (from the ammeter) to the positive battery terminal with the bolt, lockwasher and nut in the assembly pack.
8. Attach the negative cable, grounded, to the negative battery terminal with the bolt, lockwasher and nut in the assembly pack.

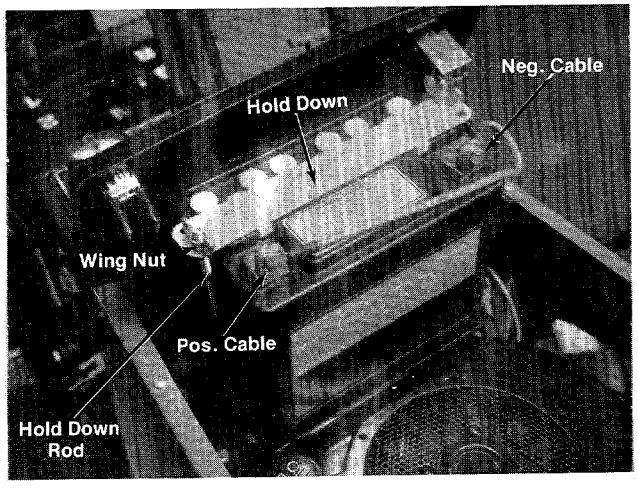


FIGURE 5.

CONTROLS

CONTROLS

The controls on both models may be considered as the Drive Control and the Cutting Control as follows:

a. Throttle Control. The throttle control is used to regulate the engine speed and choke the engine. The engine should be operated from ¾ to full throttle when operating the cutting deck or snow thrower (optional). See figure 6.

b. Gear Shift Lever. The gear shift lever is used to shift into one of three FORWARD GEARS, NEUTRAL or REVERSE. See figures 6 and 7.

c. Brake. The brake pedal is located on the right hand side of the mower and is operated by depressing it with your right foot. See figure 8.

d. Brake Lock. The brake lock is located on the right hand side of the mower. To lock the brake, depress the brake pedal and lift up the lock button. The pedal will stay depressed. To release, depress the pedal. See figure 8.

e. Clutch Pedal. The clutch pedal is used to disengage the drive mechanism. Depressing the clutch pedal at any time will reduce mower speed. If depressed all the way, it will stop the mower. See figure 9.

f. Clutch Lockout. When the clutch pedal is depressed all the way it can be locked by placing the clutch lockout in the START position as shown in figure 9. The clutch lockout must be in this position before the engine will start.

g. Ammeter. The ammeter registers the rate of battery charge or discharge. The ammeter should register on the plus side (+) when the engine is running in the fast position until the battery is completely charged. With a fully charged battery or with the engine idling the ammeter will not show a charge. See figure 6.

h. Light Switch. Pull the light switch out to turn on the lights. The lights will only operate when the engine is running. See figure 6.

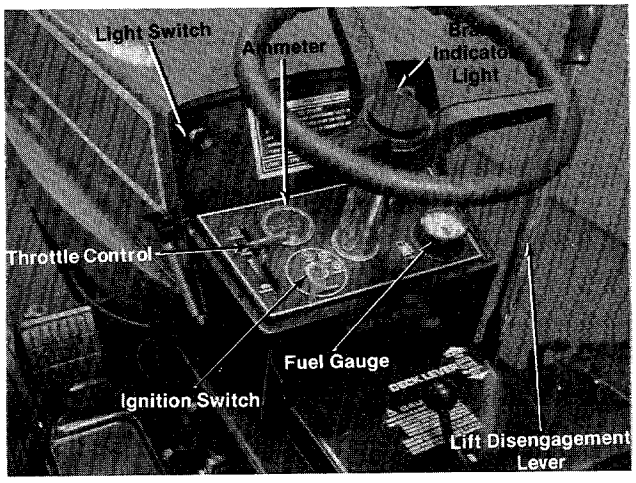


FIGURE 6. CONTROLS

FIGURE 7. SHIFT PATTERN

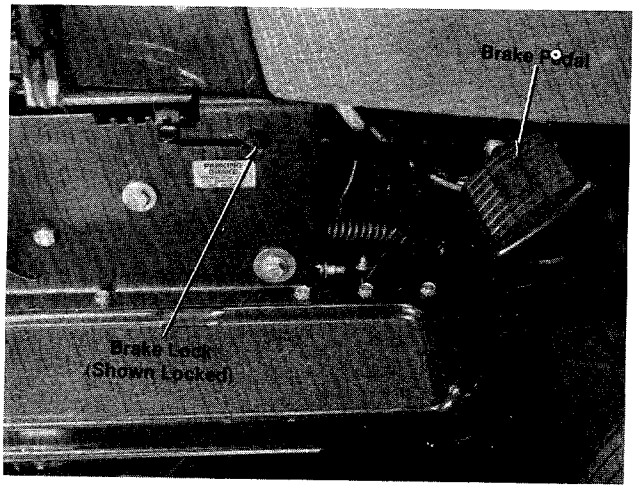


FIGURE 8.

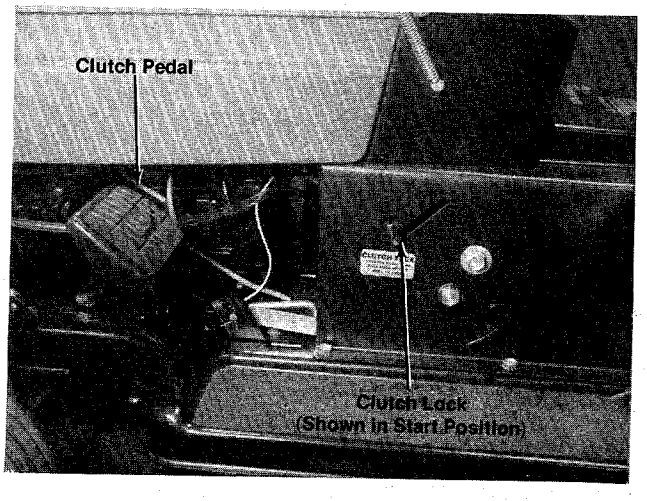


FIGURE 9.

i. Ignition Switch. The ignition switch is located on the right side of the dashboard.

Electric Start. See figure 6. Turn the key to the START position to start the engine. When the engine is running, let the key return to the ON position. To stop the engine, turn the key to the left to the OFF position and remove it to prevent accidental starting.

NOTE

The engine will not start unless the clutch lockout is in the START position and the lift lever is in the DISENGAGED position.

j. Lift and Disengagement Lever. It is used to raise the cutting deck. Pulling it all the way back and locking it disengages the blades. the engine will not start unless the lift and disengagement lever is in the disengaged position. See figure 6.

k. Cutting Controls. The cutting controls consist of the height of cut stop and the wheel height adjusters.

Height of Cut Stop. See figure 10. Lift the stop and set it at the desired cutting height.

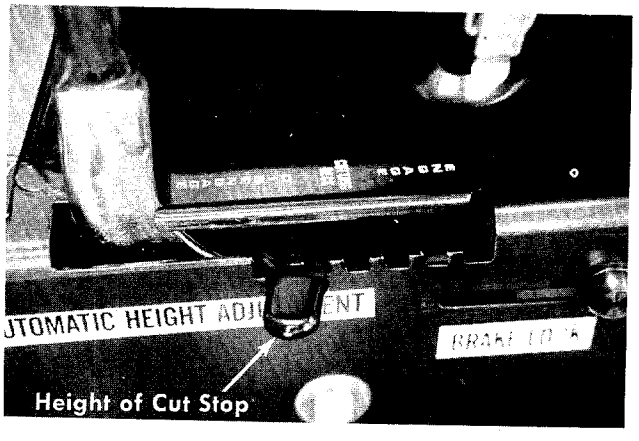


FIGURE 10. HEIGHT OF CUT SETTINGS

Wheel Height Adjuster. See figure 11. Move the lever towards the wheel and set it in the desired cutting height.

The cutting height of the mower can be set in two different ways: FULL FLOAT position where the deck follows the contour of the ground, and the SUSPENDED position where the deck hangs from the frame of the rider. The suspended position is normally used for cutting rough uneven ground.

To set the cutting deck in the full float position, set the wheel height adjusters in the desired cutting height as indicated in figure 11. Set height of cut stop in the 1½ position. See figure 10.

To set the cutting deck in the suspended position, set the height of cut stop in the desired cutting height and then set the deck wheel so they just clear the ground.

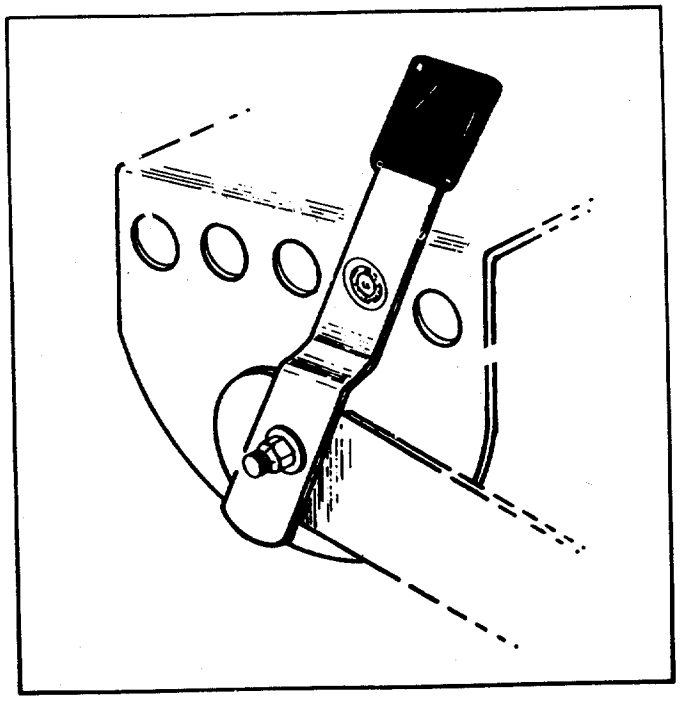


FIGURE 11. WHEEL HEIGHT ADJUSTER

OPERATING INSTRUCTIONS

STARTING THE ENGINE

Be sure to follow the instructions for the oil and gasoline as described in the engine manual.

Step 1. Be sure the fuel shut-off valve is open. See figure 12.

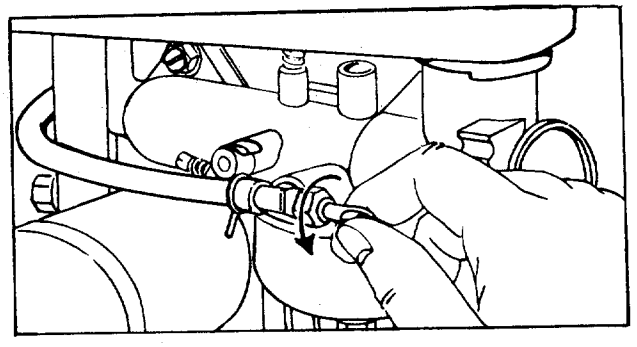


FIGURE 12. FUEL SHUT-OFF VALVE

Step 2. Place the clutch lockout in the START position. See figure 9.

Step 3. Place the lift and disengagement lever in the DISENGAGED position. See figure 6.

Step 4. Set the throttle control in the CHOKE position. See figure 6.

NOTE

This unit is equipped with a brake indicator light which is located on the dash panel. Whenever the starter key is on and the brake pedal is depressed, it will light.

CAUTION

This light indicates that the brake is engaged. Operating the unit with the brake engaged will result in rapid brake wear and premature brake failure.

Electric Start

Turn the ignition key to the START position. When the engine is running, let the key return to the ON position.

NOTE

A brief break-in period is essential to ensure maximum engine and mower life. This consists of running the engine at half speed for a period of time required to use one tank of gasoline. It is also recommended to change crankcase oil after the first 2 hours of operation.

CAUTION

Parking brake MUST be disengaged before unit is put into motion.

NOTE

Unit is equipped with separate brake and clutch pedals. To efficiently stop, it is necessary to disengage clutch when applying brakes.

STOPPING THE ENGINE

Turn the ignition key to the left to the OFF position and remove the key to prevent accidental starting.

OPERATING THE MOWER

Step 1. Set the desired cutting height.

Step 2. Start the engine as outlined above.

Step 3. Select gear and shift.

NOTE

DO NOT force the gear shift lever! If the lever cannot be moved from NEUTRAL to one of the drive positions, release the clutch pedal slowly, depress it again, and then move the gear shift lever as required.

Step 4. Once the machine is in motion, remove foot from the pedal. The mower will now move ahead or to the rear, and the use of the steering wheel will provide directional control.

Step 5. The mower is brought to a stop by pressing your right foot against the brake pedal and your left foot against the clutch pedal. The drive belt will be disengaged and the brake will be applied.

CAUTION

Gear changing should be done only after the mower has been brought to a full stop. If the mower is not to be used for a long period, place the gear shift lever in NEUTRAL and stop the engine. DO NOT leave the machine on an incline.

OPERATING THE CUTTER BLADE

The cutting blades may be engaged while the mower is moving or standing still. DO NOT engage the cutting blades abruptly as the sudden belt tension on the pulley may cause the engine to stall.

WARNING

When the blade drive is engaged, keep feet and hands away from the discharge opening and from the blade.

To stop the blades, move the lift and disengagement lever (figure 6) into the DISENGAGED position. This raises the deck and disengages the blades.

NOTE

When the machine is used for other than mowing operations the blade drive should be disengaged.

MAINTENANCE

CRANKCASE OIL

To ensure maximum engine performance, perform the following periodic maintenance:

Oil Check

Check the oil level in the crankcase before each use of the machine and after every five hours of operation. Oil should be kept between the add and full marks on the dipstick.

After the first five hours of operating a new engine, drain the oil (See figure 13.) from the crankcase while engine is still hot and refill crankcase with new oil; thereafter change the oil every 25 hours of operation. This procedure ensures for minimum wear of engine parts and provides for virtually trouble-free operation. To change the oil, proceed as follows:

Step 1. With the machine on level ground, place a suitable metal container under the oil drain plug, then remove the drain plug. See figure 13.

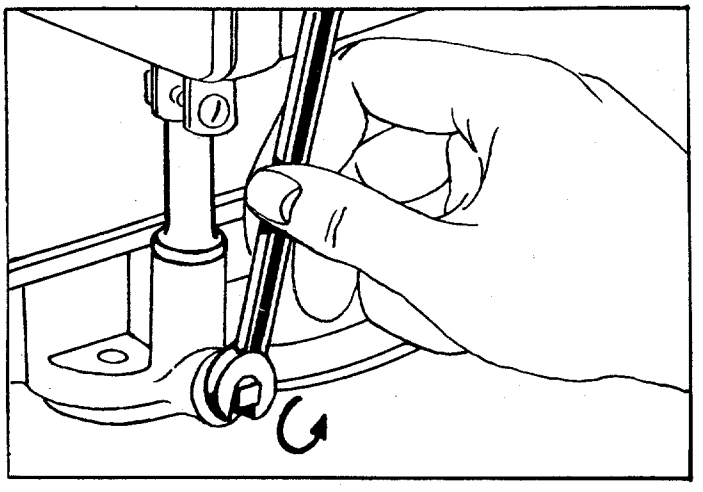


FIGURE 13. OIL DRAIN

Step 2. After the oil has been drained completely from the crankcase, replace the drain plug and tighten.

Step 3. Refill crankcase with 2¼ pints of good quality, type MS, Engine oil into the crankcase. Summer use SAE 30; Winter (Below 40°F) use SAE 5W-20 or SAE 10W.

LUBRICATION

Lubricate the wheel bearings (2 per wheel) and the upper and lower spindle bearings with SAE 30 oil once a season. See figure 14.

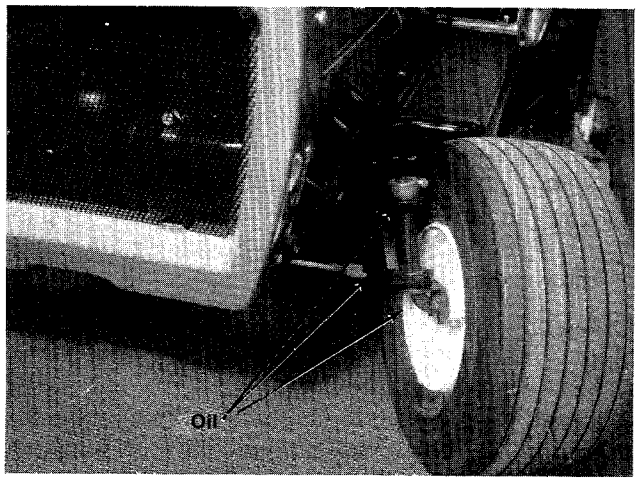


FIGURE 14. WHEEL AND SPINDLE BEARINGS

AIR CLEANER

Under normal operating conditions, the air cleaner, located on top of the carburetor, must be serviced after every ten hours of use. Under extremely dusty operating conditions the air cleaner must be serviced after every hour of operation. Refer to figure 15.

When assembling the air cleaner, make certain the lip of the foam element extends over edge of the air cleaner body. The foam element will form a protective seal.

Step 1. Remove two screws and lift off complete air cleaner assembly.

Step 2. Remove screen and spacers from foam element.

Step 3. Remove foam element from air cleaner body.

Step 4. a. Wash foam element in kerosene or liquid detergent and water to remove dirt.

b. Wrap foam in cloth and squeeze dry.

c. Saturate foam in SAE 30 engine oil, then squeeze out excess oil.

d. Assemble parts, fasten to carburetor with screw.

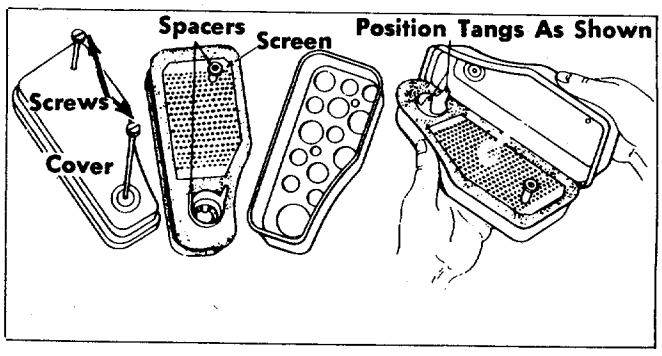


FIGURE 15. AIR CLEANER

CLEANING ENGINE AND BLADE HOUSING

Any fuel or oil spilled on the machine should be wiped off promptly. Grass, leaves, and other dirt must not be left to accumulate around the cooling fins of the engine or on any part of the machine.

Clean the underside of the blade housing after each mowing.

BELTS

Check that belts are free of oil or dirt. Wipe the belts periodically with a clean rag.

NOTE

Belt tension is automatically maintained by the spring on the variable speed bracket on the drive belts and the belt tension on the deck belt is maintained by the two deck springs.

SPARK PLUG

The spark plug gap should be cleaned and reset to a 0.030-inch clearance every 25 hours of engine operation. (See figure 16.) Spark plug replacement is recommended at the start of each mowing season; check engine parts list for correct plug type.

NOTE

Whenever the spark plug is removed for cleaning, it is advisable to replace the spark plug gasket with a new gasket.

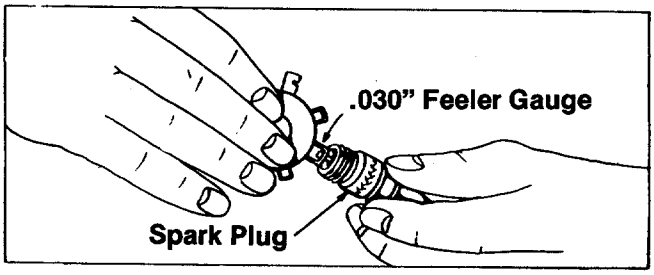


FIGURE 16. SPARK PLUG CLEARANCE

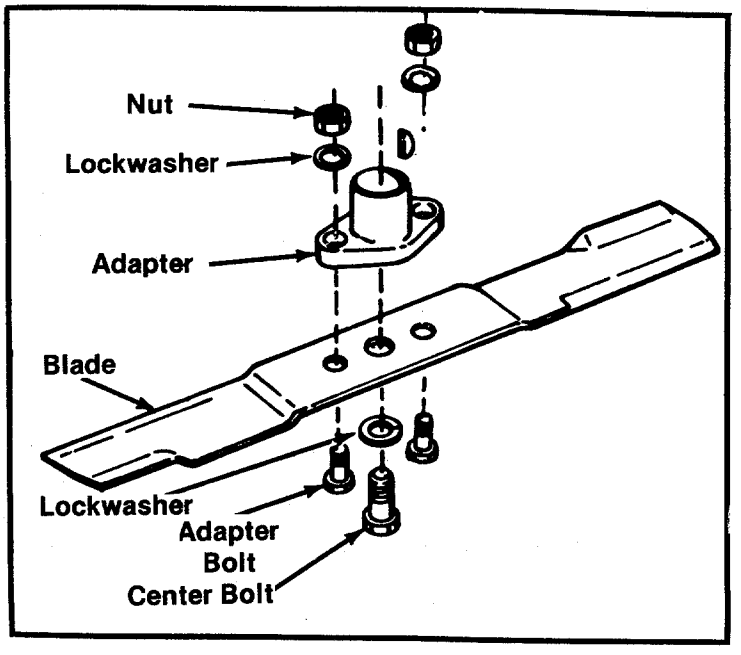


FIGURE 17. BLADE REMOVAL

REPLACING BLADE

WARNING

Before beginning work on the cutter blade, remove the spark plug from the cylinder.

The adapter can be removed from the blade by removing the two adapter bolts, lockwashers and nuts.

Removing and Sharpening Blades. Remove the center bolt and lockwasher. See figure 17. Pull the blade and blade adapter from the blade spindle.

WHEEL ADJUSTMENT

The caster (forward slant of the king pin) and the camber (tilt of the wheels out at the top) requires no adjustment. Automotive steering principals have been used to determine the caster and camber on the rider. The front wheels should toe-in 1/8 inch.

To adjust the toe-in follow these steps.

Step 1. Remove the elastic locknut and drop the tie rod end from the wheel bracket. See figure 18.

Step 2. Loosen the hex jam nut on the rod.

Step 3. Adjust the tie rod assembly for correct toe-in.

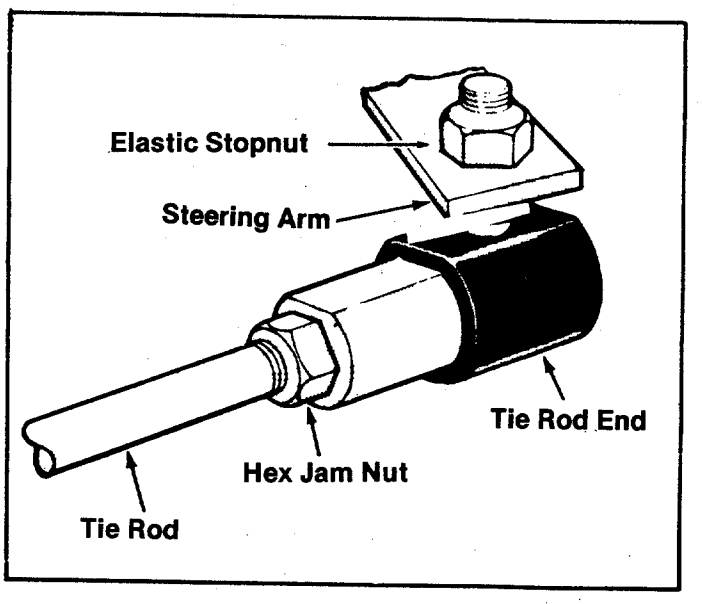


FIGURE 18. TIE ROD END

ADJUSTMENT

Dimension "B" should be approximately 1/8" less than dimension "A".

A.) To increase dimension "B", screw the rod into tie rod end.

B.) To decrease dimension "B", unscrew tie rod from tie rod end.

C.) Reassemble the rod. Check dimensions. Readjust if necessary.

NOTE

To insure safe operation of your unit ALL nuts and bolts must be checked periodically for correct tightness.

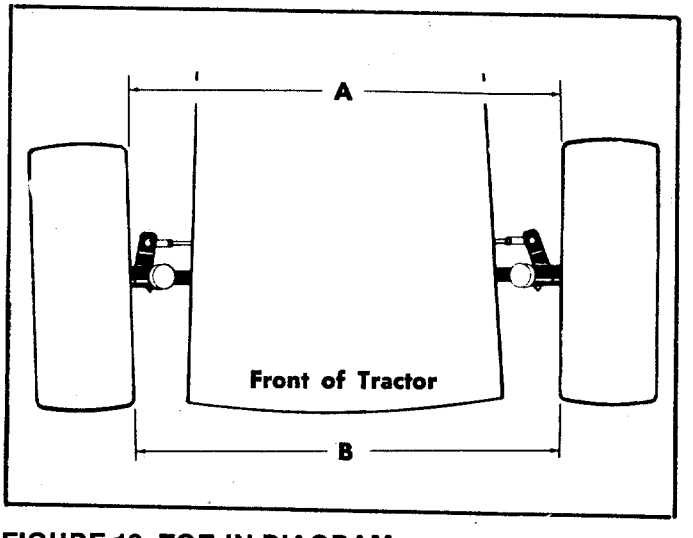


FIGURE 19. TOE-IN DIAGRAM

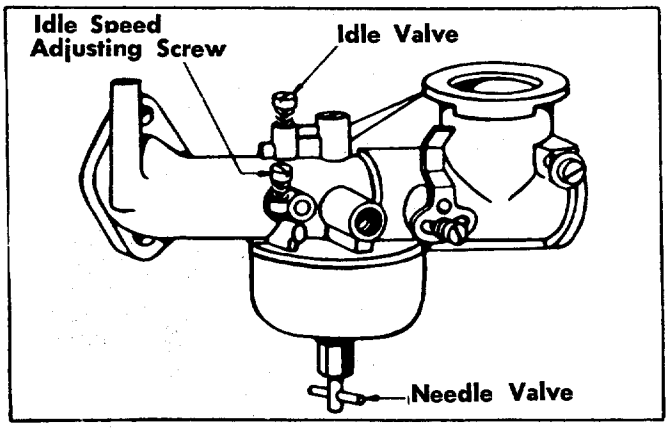


FIGURE 20. CARBURETOR ADJUSTMENT

ADJUSTING CARBURETOR CHOKE

Proper choke operation is dependent upon proper adjustment of remote controls on the powered equipment.

To Check Operation of Choke-A-Matic Controls:

Move control lever to CHOKE position. (See figure 6.) The carburetor choke should be closed.

NOTE

The air cleaner can be removed to check the operation of the choke.

To Adjust:

Place control lever on equipment in FAST (high speed) position. Loosen control casing clamp screw B. Move control casing A and wire until lever D touches choke operating link at C. Tighten casing clamp screw B. See figure 21.

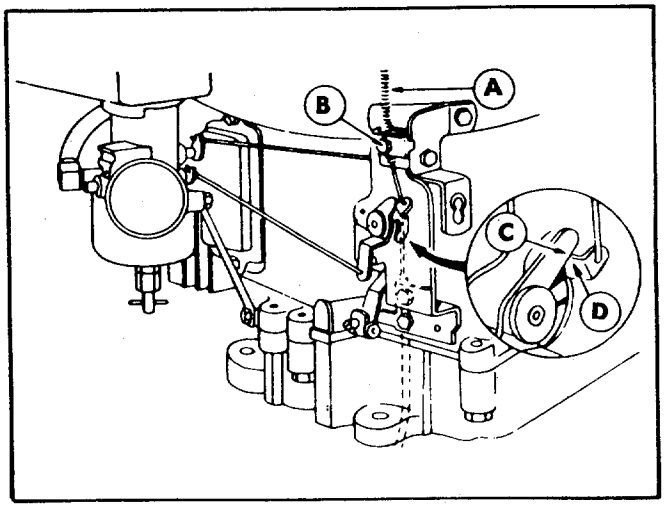


FIGURE 21. CHOKE ADJUSTMENT

BRAKE ADJUSTMENT

1. Move brake pedal forward by hand until pressure or resistance is noted. This is the point where the brake pedal spring begins to stretch.

2. If adjustment is correct, parking brake lock will have moved approximately ¼". See figure 22.

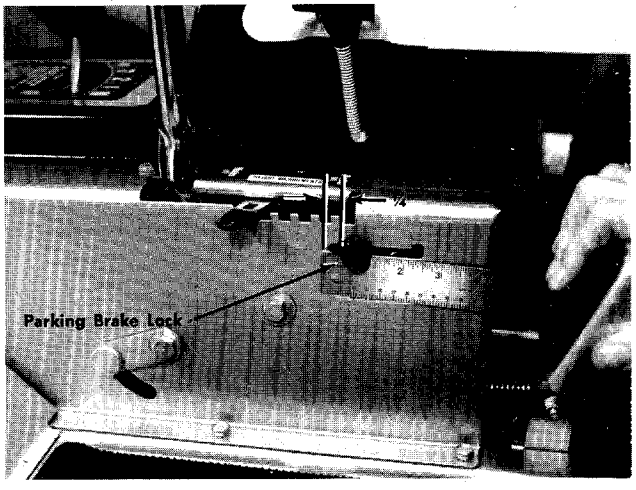


FIGURE 22. PARKING BRAKE LOCK

3. If adjustment is incorrect, tighten or loosen brake adjusting nut until correct dimension is obtained. See figure 23. Over tightening will reduce effective braking action. Lock brake adjustment with brake adjustment locknut. Periodic adjustment is necessary to maintain effective brake operation.

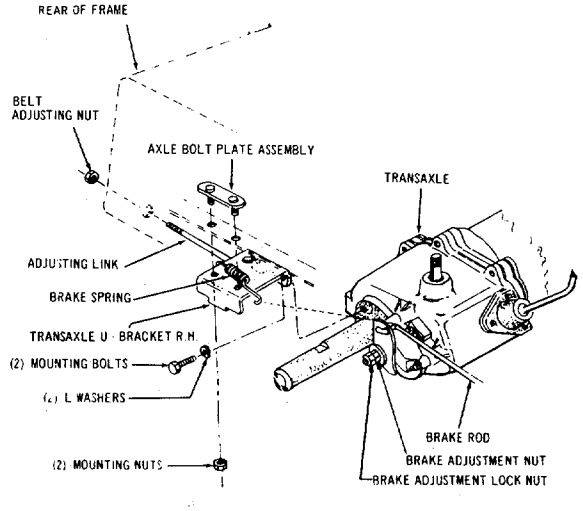


FIGURE 23. BRAKE ADJUSTMENT NUT

PREPARING FOR BELT REMOVAL

1. To prevent gasoline from leaking from the engine, remove the fuel tank cap, place a piece of thin plastic over the neck of the fuel tank and screw on the cap.

2. Disconnect the spark plug wire and ground it against the engine.

NOTE

If the unit is equipped with a battery, continue with step 3.

3. Remove the battery to prevent acid from leaking.

WARNING

Disconnect the negative terminal first and connect last when installing the battery.

MOWING UNIT BELT REPLACEMENT

Step 1. Place the lift lever in the disengaged position. See figure 8.

Step 2. Remove the belt keeper and large bolt on the engine pulley. See figure 24.

Step 3. Unhook the belt from the engine pulley. See figure 25.

Step 4. Place the lift lever in the engaged position. See figure 9.

Step 5. Unhook the tension springs on both sides of the deck. See figure 26.

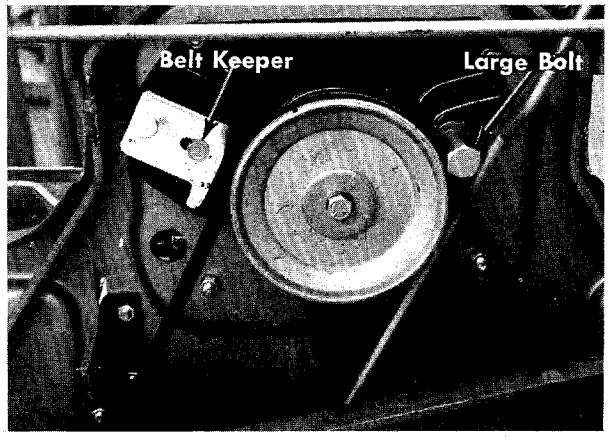


FIGURE 24. BELT KEEPER

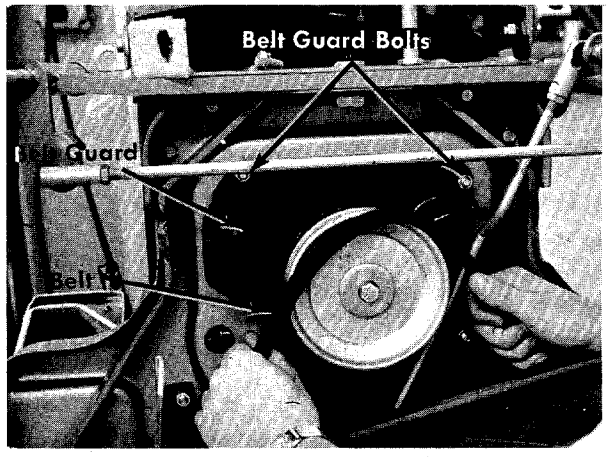


FIGURE 25. REMOVING MOWER BELT

Step 6. Remove the front four deck links from the cutting deck. See figure 27.

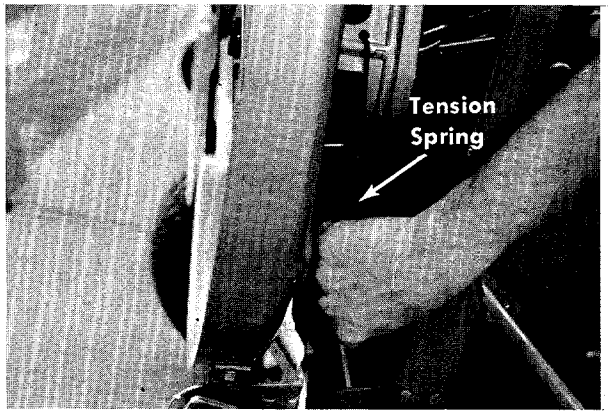


FIGURE 26. REMOVING TENSION SPRINGS

Step 7. Remove the belt guards from both deck pulleys. See figure 27.

Step 8. Remove and replace the belt and reassemble.

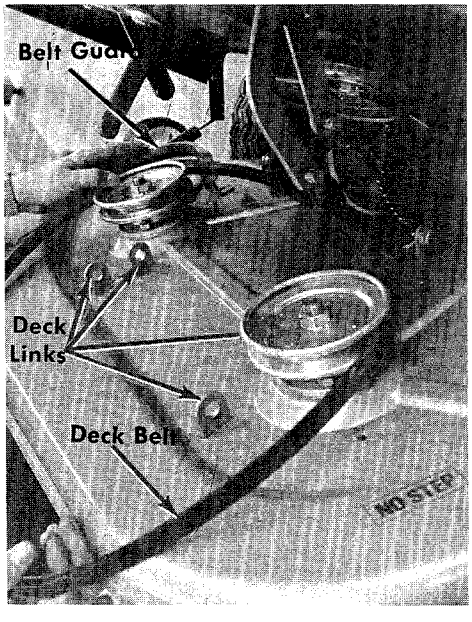


FIGURE 27. DECK LINKS

TRANSMISSION BELTS REMOVAL

Step 1. Place the lift lever in the disengaged position. See figure 6.

Step 2. Remove the belt keeper and large bolt on the engine pulley. See figure 24.

Step 3. Unhook the belt from the engine pulley. See figure 25.

Step 4. Place the lift lever in the engaged position. See figure 6.

Step 5. Unhook the tension springs on both sides of the deck. See figure 26.

Step 6. Remove the front four deck links from the cutting deck. See figure 27.

Step 7. Tip the deck down as shown in figure 27.

NOTE

Leave the belt attached to the deck pulleys unless you want to replace it.

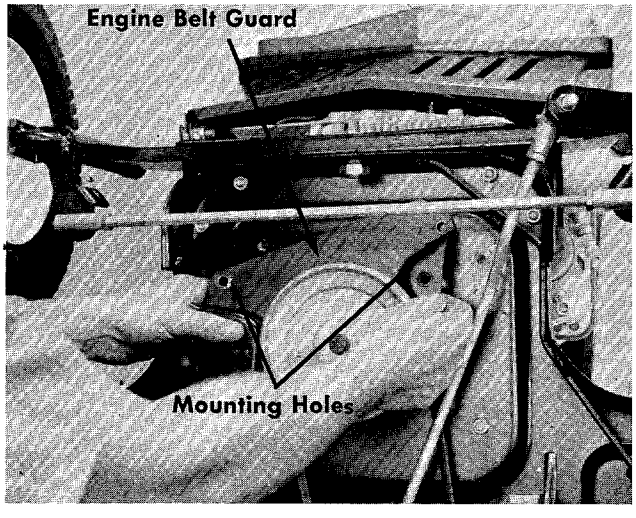


FIGURE 28. BELT GUARD REMOVAL

NOTE

By working between the frame and the deck, it is possible to remove and replace the deck belt without removing the deck, however, the working space is limited.

Step 9. **Removing the transmission belt.** See figure 27.

a. Remove the entire belt guard from the engine pulley by removing the two front engine bolts. See figure 26.

b. Remove the transmission pulley by removing the hex nut and washer. See figure 27.

c. Remove the bolt and nut from the steering rack and remove the belt.

d. Reassemble in reverse order with the new belt.

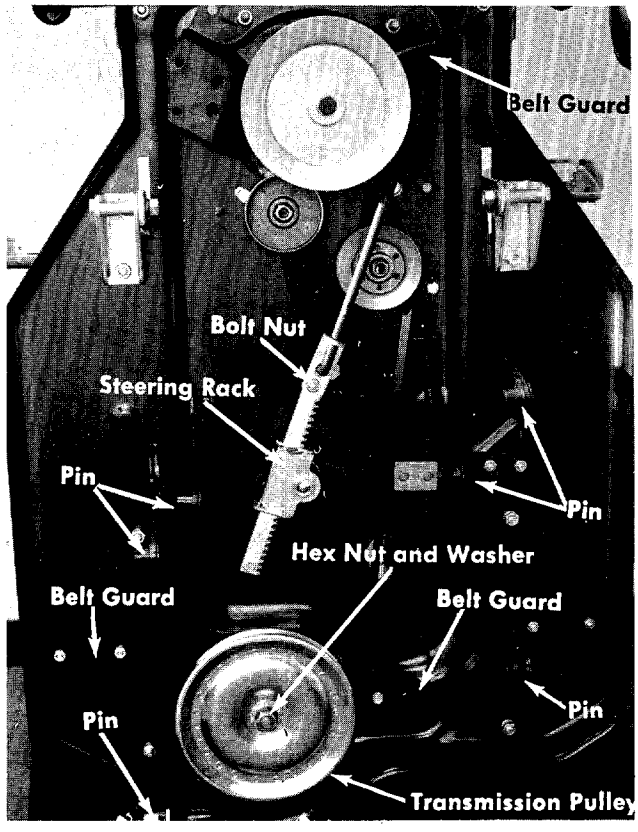


FIGURE 29. BOTTOM VIEW

OFF-SEASON STORAGE

If the machine is to be inoperative for a period longer than 30 days, the following precautions are recommended:

Step 1. Working outdoors, drain all fuel from the fuel tank. Use a clean dry cloth to absorb the small amount of fuel remaining in the tank, then run the engine until all fuel in carburetor is exhausted.

Do not drain fuel while smoking, or if near an open fire.

Step 2. Drain all the oil from the crankcase (this should be done after the engine has been operated and is still warm) and refill the crankcase with clean new oil.

Step 3. Disconnect the spark plug wire and remove the spark plug from the cylinder. Pour about six drops of engine oil into the cylinder, and then pull the recoil starter several times to spread the oil on the cylinder wall. Replace the spark plug, but DO NOT connect the wire.

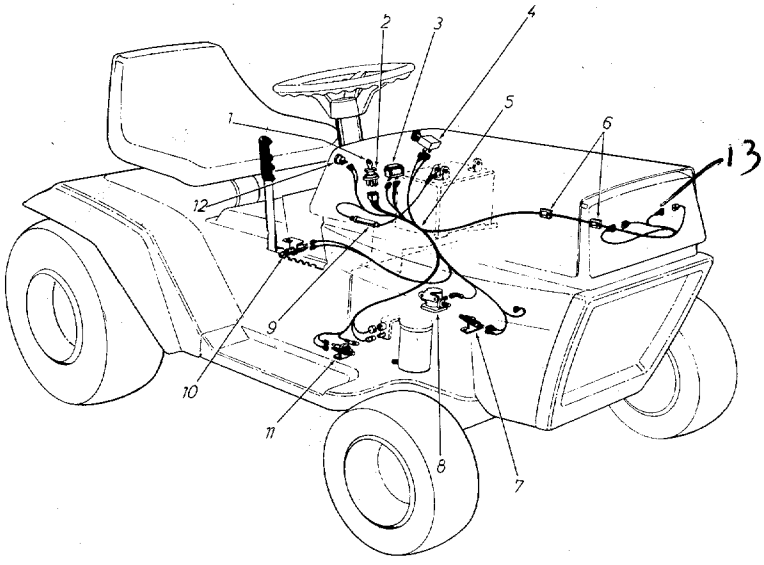
Step 4. Clean the engine and the entire mower thoroughly.

Step 5. Lubricate all lubrication points indicated in figure 14; then wipe the entire machine with an oiled rag in order to protect the surfaces.

TROUBLE SHOOTING CHART

TROUBLE	LOOK FOR	REMEDY
Engine fails to start.	Safety System	A. Check for a blown fuse in the wire leading from the positive terminal of the battery. B. Before checking the safety system further, be sure the clutch control and the blade control are disengaged; only the starting system is being checked. Therefore remove the spark plug lead and ground it to prevent the engine from starting. C. Attach a wire (minimum 18 gauge) to the positive terminal of the battery and touch the other end to the small terminal (coil primary) of the solenoid. If the engine cranks, the problem is in the safety system. D. Check for continuity from the battery to the solenoid. NOTE: The positive terminal of the battery should have a large cable (#8 guage) and a small wire (#18 gauge) attached to it. E. Check all wires and cable for tightness. F. Use a #8 gauge wire and jump between the two large terminals of the solenoid. If the unit starts, replace the solenoid. G. If the unit fails to start after following the above procedure the problem is probably in the starting motor of the engine.
	Blocked fuel line or empty gas tank.	Clean fuel line; check fuel supply. Also check fuel shut-off valve.
	Defective spark plug.	Spark plug lead wire disconnected. Faulty spark plug—spark should jump gap between control electrode and side electrode. If spark does not jump, replace spark plug. NOTE: Use insulated pliers to hold the spark plug wire.
	Throttle setting.	Throttle control lever not in the starting position.
	Loose connections	Spark plug wire loose.
Hard starting or loss of power.	Dirty air cleaner.	Remove air cleaner and clean as outlined in **Engine Manual.**
	Carburetor improperly adjusted.	Review paragraph **Carburetor Adjustment.**
Excessive vibration.	Bent or damaged blade spindle.	Stop engine immediately; tighten all bolts and make all necessary repairs. If vibration continues, have the unit serviced by a competent repairman.
Unit fails to discharge grass.	Discharge chute clogged.	Clean discharge chute and inside of deck.
	Foreign object lodged in deck.	Remove object from deck. See CAUTION following step 1 in paragraph **Operation.**
Engine overheats.	Obstructions in air passages.	Remove any obstruction from air passages in shroud.
	Grass and dirt in engine shroud.	Clean cooling fins.
	Oil level.	Fill crankcase to proper oil level.

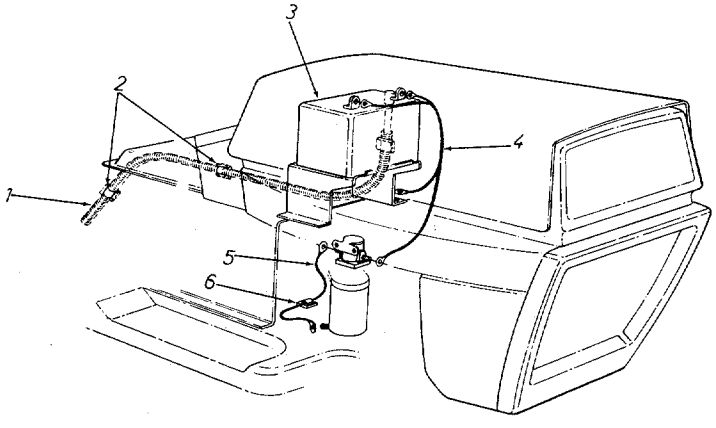
136-495A
136-497A



PARTS LIST FOR MODEL 136-495A AND 136-497A

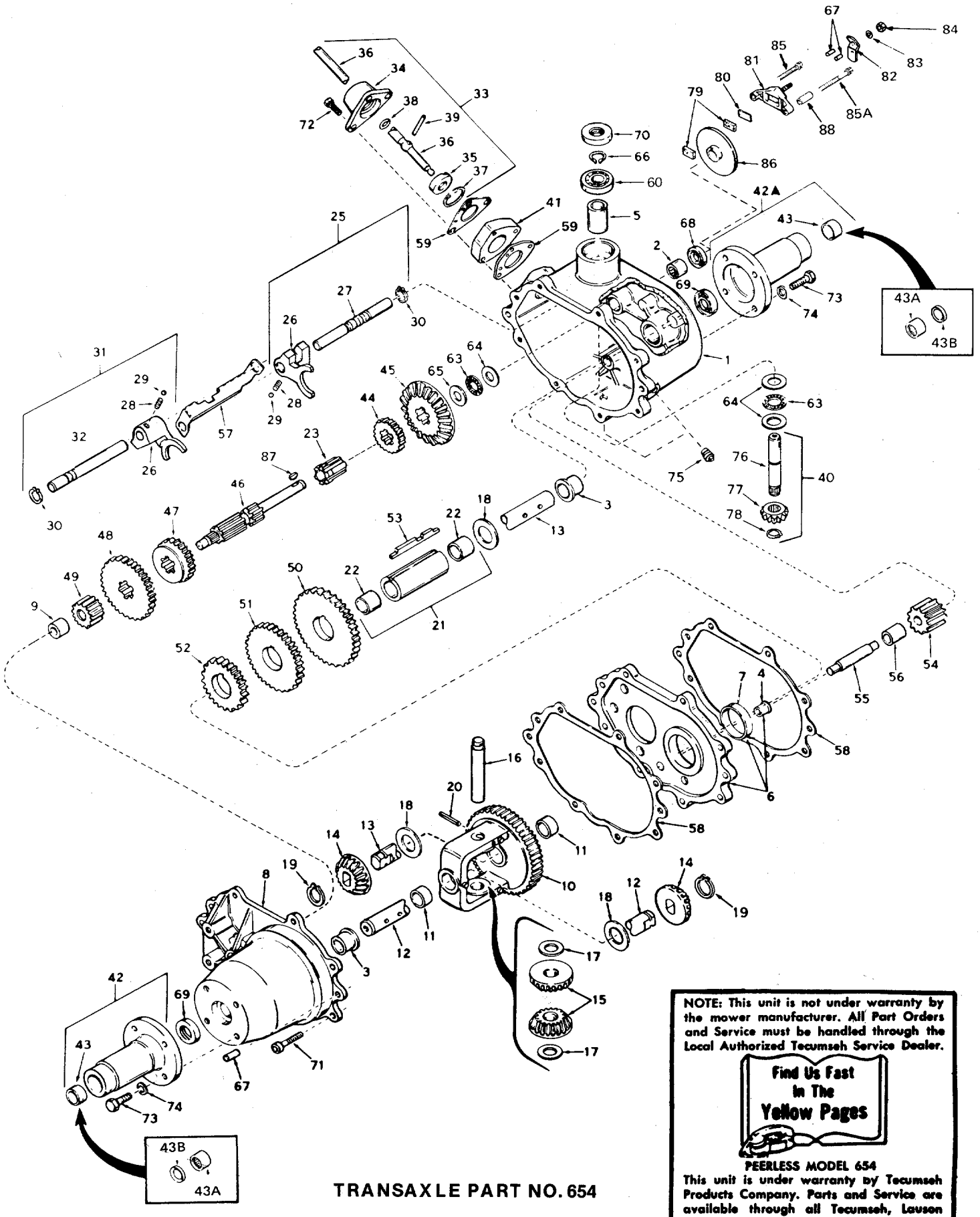
REF. NO.	PART NO.	DESCRIPTION	NEW PART
1	725-0201	Ignition Key	
2	725-0267	Ignition Switch	
3	725-0119	Ammeter	
4	725-0202	Headlight Switch	
5	725-0487	Wire Harness	N
6	725-0480	Vinyl Sealing Tape	N
7	725-0268	Safety Switch	
8	725-0270	Solenoid	
9	725-0298	Fuse 7½ Amp ¼ Dia. x 1.25 Lg.	
10	725-0268	Safety Switch	
11	725-0269	Safety Switch—Red w/Brkt.	
12	725-0428	Indicator Light	

13 725-0222 Head Lamp



PARTS LIST FOR MODEL 136-495A AND 136-497A

REF. NO.	PART NO.	DESCRIPTION	NEW PART
1	731-0333	Convoluted Conduit	
2	726-0141	Mtg. Clamps 3/8 I.D.	
3	725-0453	Battery 12 V-Manifold Vented	
4	725-0503	Battery Cable Harness	N
5	725-0121	Electric Wire	
6	725-0480	Vinyl Sealing Tape	N



TRANSAXLE PART NO. 654

NOTE: This unit is not under warranty by the mower manufacturer. All Part Orders and Service must be handled through the Local Authorized Tecumseh Service Dealer.

Find Us Fast In The Yellow Pages

PEERLESS MODEL 654

This unit is under warranty by Tecumseh Products Company. Parts and Service are available through all Tecumseh, Lausen Power Products Service Dealers. Check the "Yellow Pages" of your telephone directory under "Engines—Gasoline."

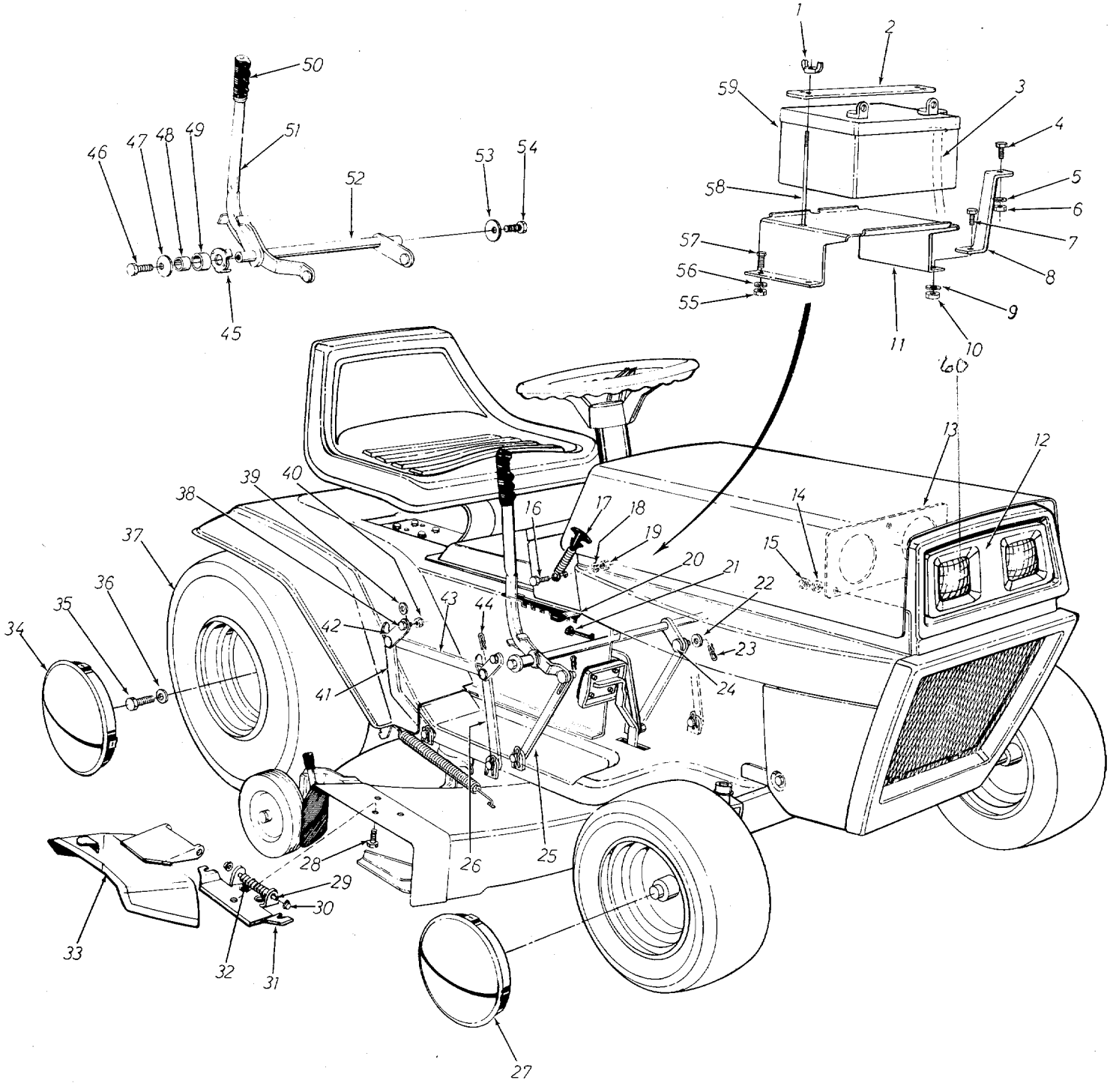
PARTS LIST FOR TRANSAXLE MODEL NO. 654

REF. NO.	PART NO.	DESCRIPTION
1	PE-770063	Case Ass'y. Transaxle (Incl. Nos. 2, 3 & 5)
2	PE-780086	Bearing, Needle
3	PE-780059	Bearing, Bronze
4	PE-780060	Bearing, Bronze
5	PE-780061	Bearing, Bronze
6	PE-786033	Plate Ass'y., Center (Incl. Nos. 4 & 7)
7	PE-780062	Bearing, Bronze
8	PE-772042	Cover Ass'y., Transaxle (Incl. Nos. 3 & 9)
9	PE-780063	Bearing, Needle
10	PE-778053	Gear Ass'y., Differential (Incl. No. 11)
11	PE-780064	Bearing, Bronze
12	PE-774340	Axle, Left Hand
13	PE-774341	Axle, Right Hand
14	PE-778067	Gear, Bevel
15	PE-778068	Pinion, Bevel
16	PE-786034	Pin, Drive
17	PE-780065	Washer, Thrust
18	PE-780001	Washer, Thrust
19	PE-788038	Ring, Snap
20	PE-792040	Pin, Roll
21	PE-786035	Sleeve Ass'y., Countershaft (Incl. No. 22)
22	PE-780066	Bearing, Bronze
23	PE-776090	Shaft, Idler
25	PE-784079	Rod Ass'y., Shift (1st & Rev.) (Incl. Nos. 26 thru 30)
26	PE-784004	Fork, Shift
27	PE-784083	Rod, Shift
28	PE-792003	Spring
29	PE-792004	Ball, Steel
30	PE-792017	Ring, Snap
31	PE-784084	Rod Ass'y., Shift (2nd & 3rd) (Incl. Nos. 26, 28, 29, 30, 32)
32	PE-784085	Rod, Shift
33	PE-784244	Lever & Hsg. Ass'y., Shift (Incl. Nos. 34 thru 39)
34	PE-784088	Housing, Shift Lever
35	PE-784094	Keeper, Shift Lever
36	PE-784245	Lever, Shift
37	PE-792016	Ring, Snap
38	PE-792001	Ring, Quad
39	PE-792049	Pin, Drive
40	PE-776154	Shaft & Gear Ass'y, Input (Incl. Nos. 76, 77 & 78)
41	PE-786057	Block, Riser
42	PE-782038A	Hsg. Ass'y., Axle (Incl. #43)
42A	PE-782043	Hsg. Ass'y., Axle (Incl. #43)
43	PE-780091	Brg. & Seal Ass'y., Needle (See Note 1)
43A	PE-530105	Bearing Needl
43B	PE-788042	Seal, Oil
44	PE-778024	Gear (16 teeth)
45	PE-778057	Gear, Bevel (33 teeth)
46	PE-776138	Shaft, Shifter & Brake
47	PE-778058	Gear, Shifting (2nd & 3rd)
48	PE-778059	Gear, Shifting (1st & Rev.)
49	PE-778060	Gear, Spur (12 teeth)
50	PE-778061	Gear, Countershaft drive (39 teeth)
51	PE-778062	Gear, Countershaft (34 teeth)
52	PE-778063	Gear, Countershaft (25 teeth)
53	PE-792034A	Key, Countershaft
54	PE-778064	Idler, Reverse
55	PE-776057	Shaft, Reverse Idler
56	PE-786036	Spacer, Reverse Idler
57	PE-784087	Stop, Shifter
58	PE-788033	Gasket, Case & Cover
59	PE-788003	Gasket, Shift Lever Hsg.
60	PE-780093	Bearing, Ball
63	PE-780071	Bearing, Thrust
64	PE-780072	Washer, Thrust
65	PE-780073	Washer, Thrust
66	PE-792035	Ring, Snap
67	PE-786026	Pin, Dowel
68	PE-788043	Seal, Oil
69	PE-788009	Seal, Oil
70	PE-788035	Seal, Oil
71	PE-792036	Scr., Socket Hd. Cap, ¼-20 x 1¼
72	PE-792051	Scr., Socket Hd. Cap, ¼-20 x 1¾
73	PE-792037	Scr., Hex Hd., 5/16-18 x 1
74	PE-792029	Lockwasher, 5/16"
75	PE-792039	Plug, Pipe ⅛"
76	PE-776155	Shaft, Input
77	PE-778077	Pinion, Input
78	PE-788040	Ring, Retaining
79	PE-790006	Pad, Brake
80	PE-790007	Plate, Brake Pad
81	PE-790005	Holder, Brake Pad
82	PE-790004	Lever, Brake
83	PE-792076	Washer, Flat
84	PE-792075	Nut, Lock
85	PE-792073	Scr., Hex Hd. Cap, ¼-20 x 1¼ thr'd forming
85A	PE-792085	Scr., Hex Hd. Cap, ¼-20 x 2¼ thr'd forming
86	PE-790009	Disc, Brake
87	PE-792045	Key, Woodruff #61
88	PE-786066	Spacer

NOTE

The no. 780091 bearing and seal can be used interchangeably with the separate #530105 bearing and the separate no. 788042 seal.

136-495A
136-497A



RIGHT HAND VIEW

PARTS LIST FOR MODEL 136-495A AND 136-497A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	712-0113		Wing Nut Solid ¼-20 Thd.	
2	12614		Battery Hold Down	
3	731-0333		Convoluted Conduit	
4	710-0286		Truss Mach. Scr. ¼-20 x .50" Lg.	
5	736-0329		L-Wash. ¼" Scr.*	
6	712-0287		Hex Nut ¼-20 Thd.*	
7	710-0258		Hex Scr. ¼-20 x .62" Lg.*	
8	12811		Battery Brkt. Brace	N
9	736-0329		L-Wash. ¼" Scr.*	
10	712-0287		Hex Nut ¼-20 Thd.*	
11	12747		Battery Brkt.	N
12	~~12788~~ 12787		Head Lamp Retainer	N
13	~~12787~~ 12788		Head Lamp Bezel	N
14	736-0329		L-Wash. ¼" Scr.*	
15	712-0287		Hex Nut ¼-20 Thd.*	
16	710-0289		Hex Scr. ¼-20 x .50" Lg.*	
17	723-0296		Hood Latch Ass'y.	
18	736-0329		L-Wash. ¼" Scr.*	
19	712-0287		Hex Nut ¼-20 Thd.*	
20	11027		Handle Stop Brkt. Ass'y.	
21	726-0121		Push Cap ¼" Dia. Black	
22	736-0192		Fl-Wash. .531 I.D. x 1.13 O.D.	
23	714-0101		Inter. Cot. Pin ½" Dia.	
24	10346		Lock Out Link Ass'y.	
25	10346		Lock Out Link Ass'y.	
26	10904		Deck Link Ass'y.	
27	734-0541		Hub Cap for 6.0" Dia. Rim	
28	710-0195		Hex Scr. ¼-28 x .62" Lg.*	
29	711-0577		Pivot Pin	
30	726-0106		Push-on Flange Palnut	
31	11399		Adapter Plate Ass'y.	
32	732-0261		Torsion Spring	
33	11574		Chute Cover Ass'y.	
34	734-0542		Hub Cap for 8.0" Dia. Rim	
35	710-0627		Hex Scr. 5/16-24 x .75" Lg.*	
36	736-0242		Bell.-Wash. .345 I.D. x .88 O.D.	
37	734-0601		Rear Wheel Ass'y.—Comp. 18.0 x 8.50	
38	738-0140		Shld. Scr. .437 Dia. x .180	
39	736-0264		Fl-Wash. .344 I.D. x .62 O.D.	
40	712-0267		Hex Nut 5/16-18 Thd.*	
41	10349		Deck Link Ass'y.	
42	09721		Pivot Link Ass'y.	
43	09735		Connecting Rod 3/16 x 1 x 12.5" Lg.	
44	714-0101		Inter. Cot. Pin ½" Dia.	
45	11029		Handle Pivot Brkt.	
46	710-0201		Hex Scr. 3/8-16 x .62" Lg.*	
47	736-0219		Bell.-Wash. .400 I.D. x 1.13 O.D.	
48	748-0201		Spacer .635 I.D. x .88 O.D. x .57	
49	735-0180		Rubber Wash. .75 I.D. x 1.25 O.D.	
50	720-0157		Grip	
51	749-0212		Lift Handle	
52	11032		Lift Handle Brkt. Ass'y.	
53	736-0219		Bell.-Wash. .400 I.D. x 1.13 O.D.	
54	710-0201		Hex Scr. 3/8-16 x .62" Lg.*	
55	712-0287		Hex Nut ¼-20 Thd.*	
56	736-0329		L-Wash. ¼" Scr.*	
57	710-0258		Hex Scr. ¼-20 x .62" Lg.*	
58	711-0222		Battery Hold Down Rod	
59	725-0453		Battery 12-Volt Manifold Vented	
60	725-0222		Headlights	

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

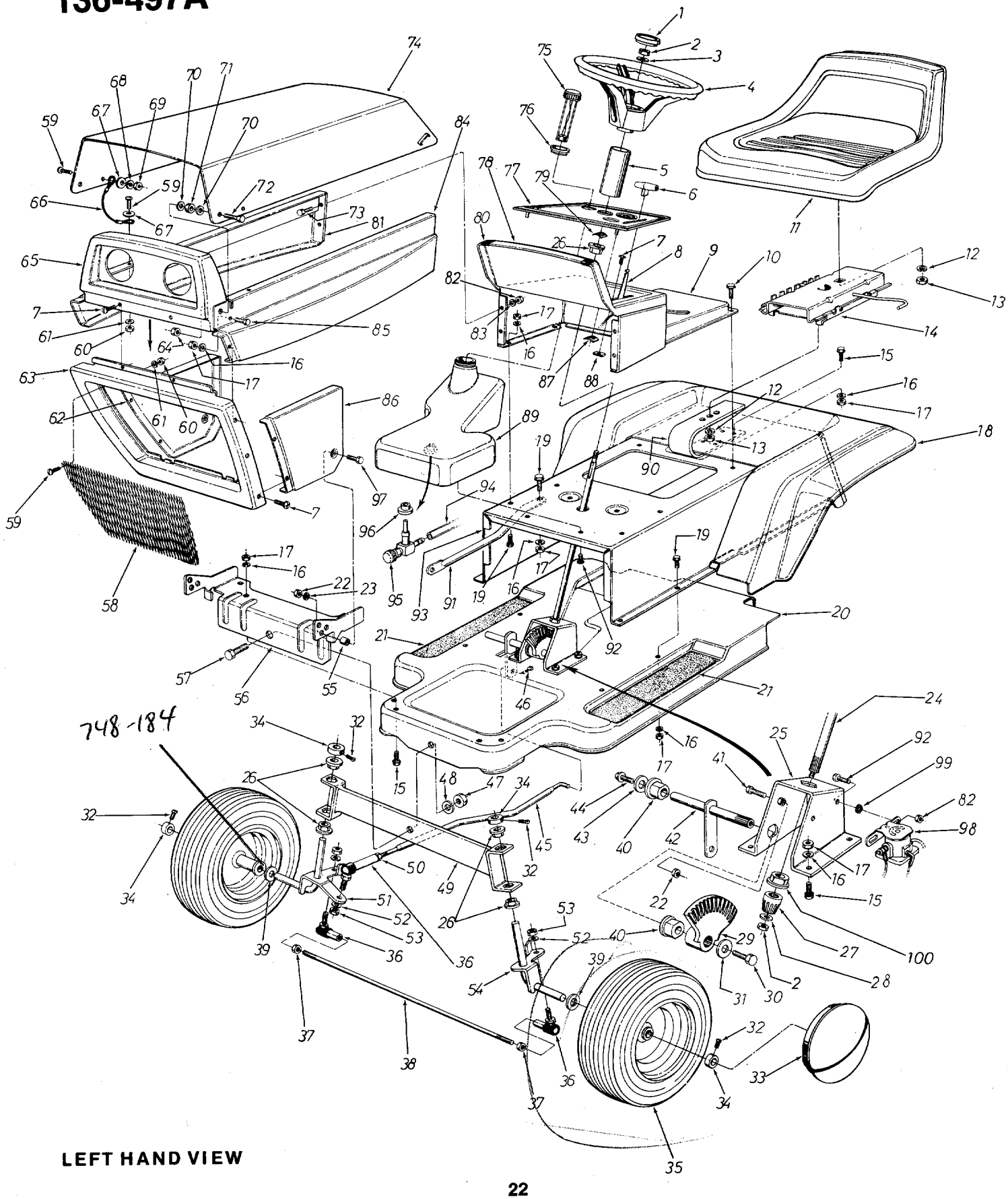
(462—Red Flake))

When ordering parts, if color or finish is important use the appropriate color code shown above (e.g. Red Flake Finish—11836 (462).)

WHEEL CHART

FRONT WHEEL		REAR WHEEL	
PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
734-0497	Wheel Ass'y. Comp.	734-0601	Wheel Ass'y. Comp.
734-0499	Rim Ass'y. Only	734-0603	Rim Ass'y. Only
734-0498	Tire Only 15 x 6.00	734-0516	Tire Only 18 x 8.50
734-0255	Air Valve	734-0255	Air Valve

136-495A
136-497A



LEFT HAND VIEW

PARTS LIST FOR MODEL 136-495A AND 136-497A

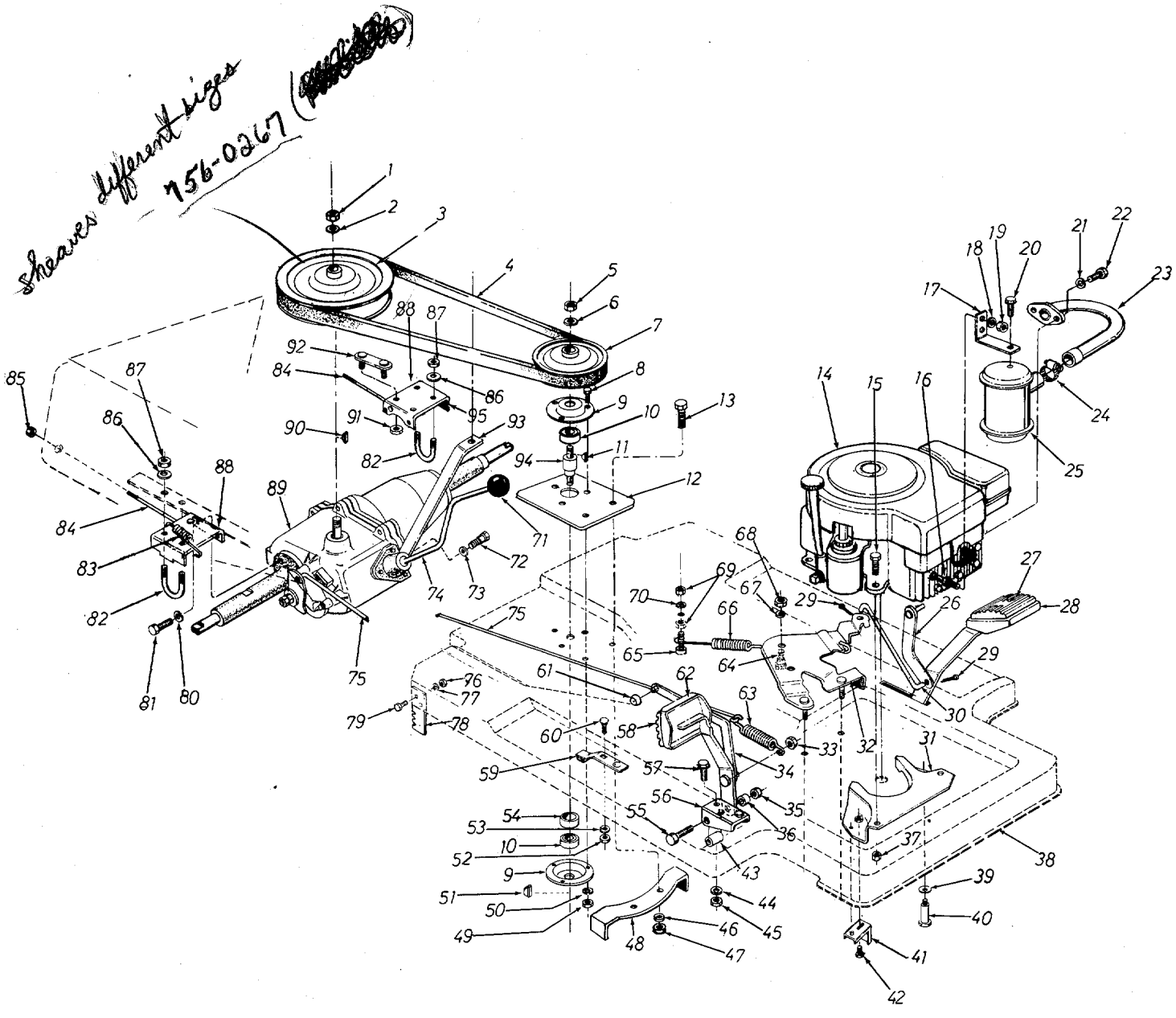
REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	731-0220		Steering Wheel Cap	
2	712-0158		Hex Cent. L-Nut 5/16-18 Thd.	
3	736-0242		Bell.-Wash. .345 I.D. x .88 O.D.	
4	731-0219		Steering Wheel	
5	750-0319		Steering Tube	N
6	722-0115		Knob—Throttle Control	
7	710-0351		Truss Mach. Scr. #10 x .50" Lg.*	
8	746-0160		Throttle Control Ass'y. Comp.	
9	12789		Upper Frame Cover	N
10	710-0599		Hex C-Tap. Scr. ¼-20 x .50" Lg.	
11	757-0264		Seat Assembly	
12	736-0921		L-Wash. ½" Scr.*	
13	712-0206		Hex Nut ½-13 Thd.*	
14	12400		Seat Guide Ass'y.—Comp.	
15	710-0198		Hex Sems Scr. 5/16-18 x .75" Lg.*	
16	736-0119		L-Wash. 5/16" Scr.*	
17	712-0267		Hex Nut 5/16-18 Thd.*	
18	11839		Rear Fender	
19	710-0259		Hex Sems Scr. 5/16-18 x .62" Lg.*	
20	11090		Frame Assembly	
21	723-0241		Foot Pad 15.75 x 4.00"	
22	712-0798		Hex Nut 3/8-16 Thd.*	
23	736-0105		Bell.-Wash. .400 I.D. x .88 O.D.	
24	738-0317		Steering Shaft	N
25	12748		Steering Gear Support	N
26	748-0227		Hex Flange Bearing .630 I.D.	
27	748-0237		Pinion Gear	N
28	736-0264		Fl-Wash. .344 I.D. x .62 O.D.	
29	748-0236		Side Gear	N
30	710-0180		Hex Scr. 3/8-24 x .75" Lg.*	
31	736-0133		Fl-Wash. .406 I.D. x 1.25 O.D.	
32	710-0494		Sq. Hd. Set Scr. 5/16-18 x .38 Cup	
33	734-0541		Hub Cap for 6.0" Dia. Rim	
34	711-0169		Collar 5/8" I.D.	
35	734-0497		Front Wheel Ass'y.—Comp. 15 x 6	
36	723-0156		Ball Joint Ass'y. 3/8-24 Thd.	
37	712-0711		Hex Jam Nut 3/8-24 Thd.	
38	711-0613		Tie Rod	
39	736-0156		Fl-Wash. .635 I.D. x 1.20 O.D.	
40	748-0151		Flange Brg. w/Flats .75 I.D.	
41	710-0670		Hex Nylon Scr. 3/8-16 x 1.25" Lg.	N
42	12749		Steering Arm Shaft Ass'y.	N
43	736-0133		Fl-Wash. .406 I.D. x 1.25 O.D.	
44	710-0180		Hex Scr. 3/8-24 x .75" Lg.*	
45	747-0186		Steering Rod	N
46	714-0507		Cotter Pin 3/32" Dia. x .75" Lg.*	
47	712-0923		Hex Cent. L-Nut 5/8-16 Thd.	
48	736-0158		L-Wash. 5/8" Scr.*	
49	12406		Front Pivot Bar Ass'y.	
50	712-0711		Hex Jam Nut 3/8-24 Thd.	
51	12755		Axle Ass'y.—Front R.H.	N
52	736-0169		L-Wash. 3/8" Scr.*	
53	712-0241		Hex Nut 3/8-24 Thd.*	
54	12752		Axle Ass'y.—Front L.H.	N
55	748-0193		Spacer .380 I.D. x .630 O.D. x .575 Lg.	
56	12411		Front Pivot Bracket	
57	710-0622		Hex Scr. 5/8-18 x 1.62" Lg.*	
58	12791		Grille Screen	N
59	710-0192		Truss Scr. #10-24 x .375" Lg.*	
60	712-0121		Hex Nut #10-24 Thd.*	
61	736-0722		L-Wash. #10 Scr.*	
62	12782		Lower Side Panel R.H.	N
63	12781		Lower Grille Panel	N
64	712-0375		Hex Cent. L-Nut 3/8-16 Thd.	
65	12814		Front Grille Upper Ass'y.	N
66	727-0199		Hood Stop	
67	736-0463		Fl-Wash. .25 I.D. x .62 O.D.	
68	736-0722		L-Wash. #10 Scr.*	
69	712-0121		Hex Nut #10-24 Thd.*	
70	736-0101		Fl-Wash. .380 I.D. x 1.00 O.D.	
71	735-0126		Rubber Wash. .33 I.D. x .87 O.D.	
72	710-0253		Hex Scr. 3/8-16 x 1.00" Lg.*	
73	710-0258		Hex Scr. ¼-20 x .62" Lg.*	
74	12780		Front Hood	N
75	723-0155		Fuel Gauge—Cap	
76	735-0179		Rubber Grommet (Fuel Tank Neck)	
77	731-0346		Dash Panel Insert	N
78	12792		Dash Panel Ass'y.	N
79	712-0222		Speed Nut Push-On 5/8" Dia.	
80	725-0~~480~~ 0133		Vinyl Sealing Tape	N
81	12784		Side Panel R.H.	N
82	712-0287		Hex Nut ¼-20 Thd.*	
83	736-0329		L-Wash. ¼" Scr.*	
84	12785		Side Panel L.H.	N
85	710-0621		Hex Scr. 5/16-18 x .50" Lg.*	
86	12783		Lower Side Panel L.H.	N
87	726-0157		Speed Nut 1/8" Stud	N
88	712-0147		Speed Nut #10-24 "U"-Type	
89	751-0182		Fuel Tank	N
90	732-0256		Seat Spring 3.25" High	
91	751-0183		Engine Brace (495A Only)	
92	710-0289		Hex Scr. ¼-20 x .50" Lg.*	
93	11852		Upper Frame	
94	751-0173		Fuel Line	
95	751-0171		Fuel Shut-Off Valve	
96	735-0149		Bushing—Fuel Tank (Valve)	
97	710-0342		Hex Scr. 3/8-16 x 1.25" Lg.*	
98	725-0270		Solenoid	
99	736-0222		Ext. L-Wash. ¼" Scr.*	
100	748-0228		Flange Brg. .500" I.D.	

(462—Red Flake)

For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

When ordering parts, if color or finish is important use the appropriate color code shown above (e.g. Red Flake Finish—11836 (462).)

136-495A
136-497A



FRAME VIEW

PARTS LIST FOR MODEL 136-495A AND 136-497A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	712-0922		Hex Jam Nut ½-20 Thd.*	
2	736-0921		L-Wash. ½" Scr.*	
3	756-0174		Transmission Split Pulley .50" I.D.	
4	754-0173		"V"-Belt 21/32 x 37" Lg.	
5	712-0261		Hex L-Nut 5/8-11 Thd.	
6	736-0158		L-Wash. 5/8" Scr.*	
7	756-0124		Pulley Ass'y.	
8	710-0322		Hex Sems Scr. 5/16-18 x 1.00" Lg.*	
9	741-0163		Bearing—Housing Ass'y.	
10	741-0919		Ball Bearing .787 I.D. x 1.85 O.D.	
11	714-0365		#6 Hi-Pro Key 5/32 x 5/8" Dia.	
12	11851		Spindle Plate	
13	710-0322		Hex Sems Scr. 5/16-18 x 1.00" Lg.*	
14	—		Engine	
15	710-0442		Hex Scr. 5/16-18 x 1.50" Lg.*	
16	—		Part of Engine	
17	751-0188		Muffler Strap	N
18	736-0119		L-Wash. 5/16" Scr.*	
19	712-0267		Hex Nut 5/16-18 Thd.*	
20	710-0456		Hex Drill Scr. #10 x .50" Lg.	
21	736-0329		L-Wash. ¼" Scr.*	
22	710-0258		Hex Scr. ¼-20 x .62" Lg.*	
23	751-0186		Exhaust Pipe Ass'y. (136-495 only)	N
24	726-0132		Hose Clamp	
25	751-0190		Muffler w/1.120 I.D. Inlet	
26	11057		Parking Brake Lever Ass'y.	
27	12379		Clutch Pedal Pad	
28	11037		Clutch Pedal Ass'y.	
29	714-0507		Cotter Pin 3/32" Dia. x .75" Lg.*	
30	747-0117		Clutch Rod	
31	12654		Belt Guard Ass'y—Engine	
32	12448		Idler Brkt. Ass'y.	
33	712-0158		Hex Cent. L-Nut 5/16-18 Thd.	
34	12806		Parking Brake—Lever Ass'y.	N
35	712-0375		Hex Cent. L-Nut 3/8-16 Thd.	
36	711-0630		Spacer .380 I.D. x .50 O.D. x .562	N
37	712-0267		Hex Nut 5/16-18 Thd.*	
38	11090		Frame Ass'y.	
39	736-0105		Bell.-Wash. .400 I.D. x .88 O.D.	
40	738-0215		Shld. Scr. .489" Dia. x 3.00" Lg.	
41	12160		Belt Keeper Ass'y.	
42	710-0259		Hex Sems Scr. 5/16-18 x .62" Lg.*	
43	750-0298		Spacer .384 I.D. x .500 O.D. x 1.43" Lg.	
44	736-0119		L-Wash. 5/16" Scr.*	
45	712-0267		Hex Nut 5/16-18 Thd.*	
46	736-0119		L-Wash. 5/16" Scr.*	
47	712-0267		Hex Nut 5/16-18 Thd.*	
48	11845		Transmission Belt Guard	
49	712-0287		Hex Nut ¼-20 Thd.*	
50	736-0329		L-Wash. ¼" Scr.*	
51	714-0129		#4 Hi-Pro Key 3/32 x 5/8" Dia.	
52	712-0287		Hex Nut ¼-20 Thd.*	
53	736-0329		L-Wash. ¼" Scr.*	
54	750-0142		Spacer .836 I.D. x 1.01 O.D. x .320	
55	710-0194		Hex Scr. 3/8-16 x 3.00" Lg.*	
56	11039		Pedal "U"-Brkt. Ass'y.	
57	710-0198		Hex Sems Scr. 5/16-18 x .75" Lg.	
58	12378		Brake Pedal Pad	
59	761-0148		Blade Brake Ass'y. 1.38 High	
60	710-0134		Carriage Bolt ¼-20 x .62" Lg.*	
61	726-0121		Push Cap ¼" Dia. Black	
62	12813		Brake Pedal Ass'y.	N
63	732-0245		Extension Spring .90 O.D. x 3.75" Lg.	
64	738-0140		Shld. Scr. .437 Dia. x .180	
65	710-0322		Hex Sems Scr. 5/16-18 x 1.00" Lg.*	
66	732-0191		Spring .75 O.D. x 11.00" Lg.	
67	736-0119		L-Wash. 5/16" Scr.*	
68	712-0267		Hex Nut 5/16-18 Thd.*	
69	712-0267		Hex Nut 5/16-18 Thd.*	
70	736-0119		L-Wash. 5/16" Scr.*	
71	720-0165		Gear Shift Knob	
72	710-0371		Hex Scr. 5/16-18 x .88" Spec.	
73	736-0242		Bell-Wash. .345 I.D. x .88 O.D.	
74	717-0262		Shift Lever for Transaxle	
75	747-0110		Brake Rod .25" Dia. x 22.25" Lg.	
76	712-0287		Hex Nut ¼-20 Thd.*	
77	736-0329		L-Wash. ¼" Scr.*	
78	10410		Spring Bracket	
79	710-0258		Hex Scr. ¼-20 x .62" Lg.*	
80	736-0119		L-Wash. 5/16" Scr.*	
81	710-0573		Hex Scr. 5/16-18 x 1.25" Grade 5	
82	747-0171		"U"-Bolt 5/16-18 Thd.	
83	732-0157		Spring .38 O.D. x 3.25" Lg.	
84	710-0437		Chain Adj. Link 5/16-18 x 4.38	
85	712-0429		Hex Ins. L-Nut 5/16-18 Thd.	
86	736-0119		L-Wash. 5/16" Scr.*	
87	712-0429		Hex Ins. L-Nut 5/16-18 Thd.	
88	11848		Transaxle "U"-Brkt.—R.H.	
89	—		Transaxle Complete	
90	714-0129		#4 Hi-Pro Key 3/32 x 5/8" Dia.	
91	712-0429		Hex Ins. L-Nut 5/16-18 Thd.	
92	10360		Plate Ass'y.—Axle Bolt	
93	11850		Transaxle Support Brkt.	
94	738-0177		Spindle for Transaxle	
95	11849		Transaxle "U"-Brkt.—L.H.	

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

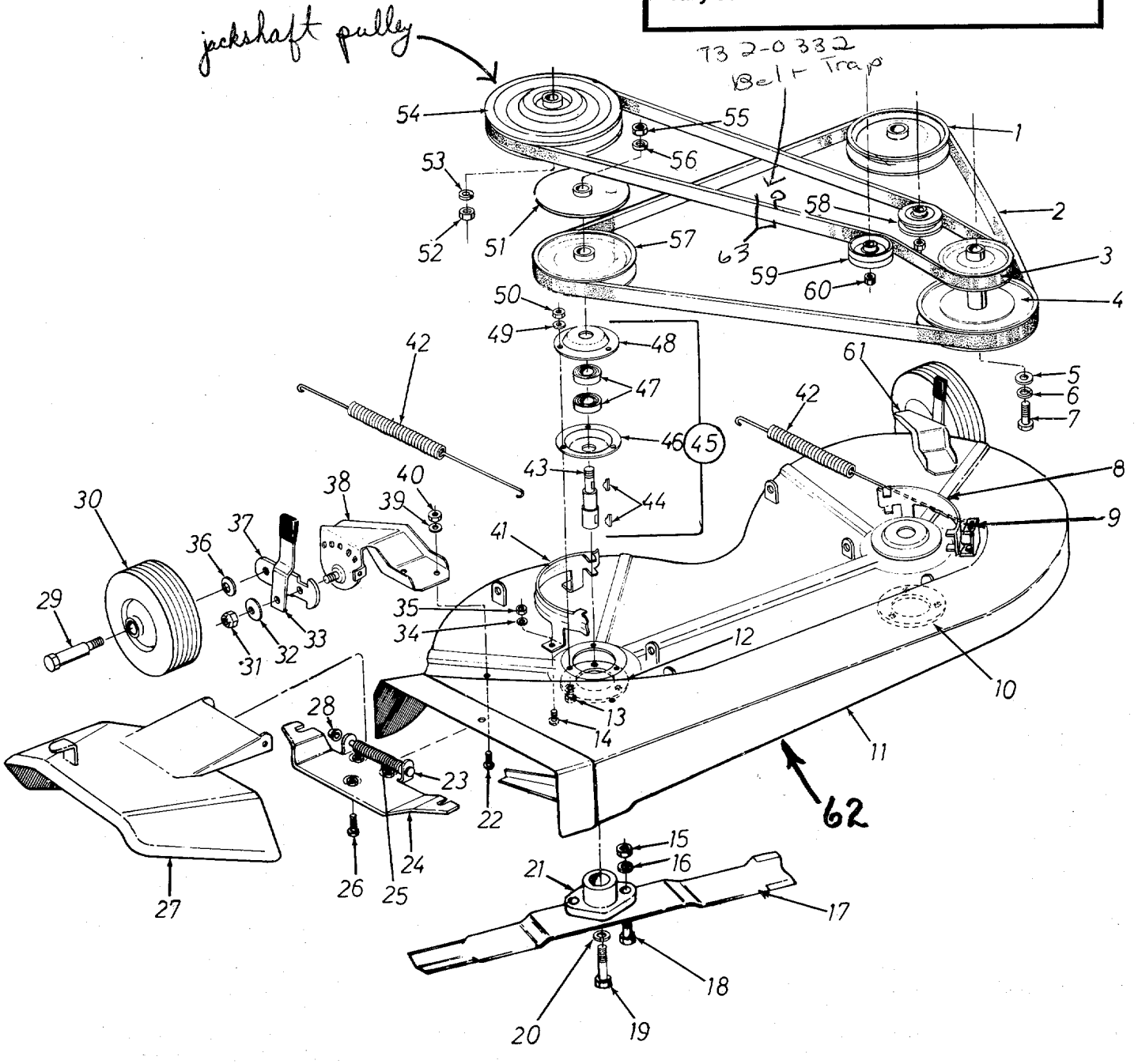
(462—Red Flake)

When ordering parts, if color or finish is important use the appropriate color code shown above (e.g. Red Flake Finish—11836 (462).)

136-495A
136-497A

IMPORTANT

Belts listed by Part Number are of special construction and should be used when replacement is necessary. The dimensions and description given are for general reference only and belts purchased by description and dimension generally will only provide temporary service.



DECK VIEW

PARTS LIST FOR MODELS 136-495A AND 136-497A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	756-0251		Deck Pulley 4.75" O.D.	
2	754-0145		"V"-Belt 21/32 x 69" Lg. (Blade Drive Belt)	
3	754-0191		"V"-Belt ½ x 65" Lg. (Transmission)	
4	756-0234		Two Step Engine Pulley	
5	736-0235		Fl-Wash. .406 I.D. x 1.25 O.D.	
6	736-0169		L-Wash. 3/8" Scr.*	
7	710-0152		Hex Scr. 3/8-24 x 1.00" Lg.*	
8	12672		Belt Guard—L.H. Deck	
9	12405		Deck Spring Brkt.	
10	09164		Deck Reinforcement Plate	
11	12676		38" Deck Ass'y.	
12	09164		Deck Reinforcement Plate	
13	710-0322		Hex Sems Scr. 5/16-18 x 1.00" Lg.*	
14	710-0289		Hex Scr. ¼-20 x .50" Lg.*	
15	712-0123		Hex Nut 5/16-24 Thd.*	
16	736-0119		L-Wash. 5/16" Scr.*	
17	742-0122		19" Blade	
18	710-0117		Hex Scr. 5/16-24 x 1.00" Lg.	
19	710-0459		Hex Scr. 3/8-24 x 1.50" Lg. H.T.	
20	736-0217		L-Wash. 3/8" Scr. (Heavy Duty)	
21	10769		Blade Adapter Kit	
22	710-0289		Hex Scr. ¼-20 x .50" Lg.*	
23	711-0571		Pivot Pin	
24	11399		Adapter Plate Ass'y.	
25	732-0261		Torsion Spring	
26	710-0195		Hex Scr. ¼-28 x .62" Lg.*	
27	11574		Chute Cover Ass'y.	
28	726-0106		Push Nut—¼" Rod	
29	738-0119		Shld. Scr. .625" Dia. x 1.75" Lg.	
30	734-0295		Wheel Ass'y.—5.0 x 1.25 Dia. (Deck)	
31	712-0116		Hex Ins. L-Nut 3/8-24 Thd.	
32	736-0105		Bell.-Wash. .400 I.D. x .88 O.D.	

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
33	10949		Spring Lever Ass'y. w/Knob	
34	736-0329		L-Wash. ¼" Scr.*	
35	712-0287		Hex Nut ¼-20 Thd.*	
36	736-0105		Bell.-Wash. .400 I.D. x .88 O.D.	
37	10937		Wheel Pivot Bar	
38	11236		Wheel Brkt. Ass'y.—R.H. (Deck)	
39	736-0329		L-Wash. ¼" Scr.*	
40	712-0287		Hex Nut ¼-20 Thd.*	
41	12673		Belt Guard—R.H. (Deck)	
42	732-0307		Extension Spring	
43	711-0255		Blade Spindle	
44	714-0365		#6 Hi-Pro Key 5/32 x 5/8" Dia.	
45	09321		Spindle Ass'y. Comp. (Deck)	
46	08253		Bearing Housing	
47	741-0919		Ball Bearing .787 I.D. x 1.85 O.D.	
48	08253		Bearing Housing	
49	736-0329		L-Wash. ¼" Scr.*	
50	712-0287		Hex Nut ¼-20 Thd.*	
51	09322		Blade Brake Disc	
52	712-0239		Hex Cent. L-Nut ½-20 Thd.	
53	736-0921		L-Wash. ½" Scr.*	
54	756-0174		Transmission Split Pulley .50" I.D.	
55	712-0261		Hex Jam Nut 5/8-11 Thd.	
56	736-0158		L-Wash. 5/8" Scr.*	
57	756-0251		Deck Pulley 4.75" O.D.	
58	756-0116		"V"-Belt Idler 3.06" O.D.	
59	756-0217		Fl. Idler 2.75" O.D. w/Flanges	
60	712-0116		Hex Ins. L-Nut 3/8-24 Thd.	
61	11237		Wheel Brkt. Ass'y.—L.H. (Deck)	
62	12362		38" Deck Ass'y Comp. (For Service)	
63	732-332		Belt Trap	
	12362		Rear asy Complete	

(462—Red Flake)

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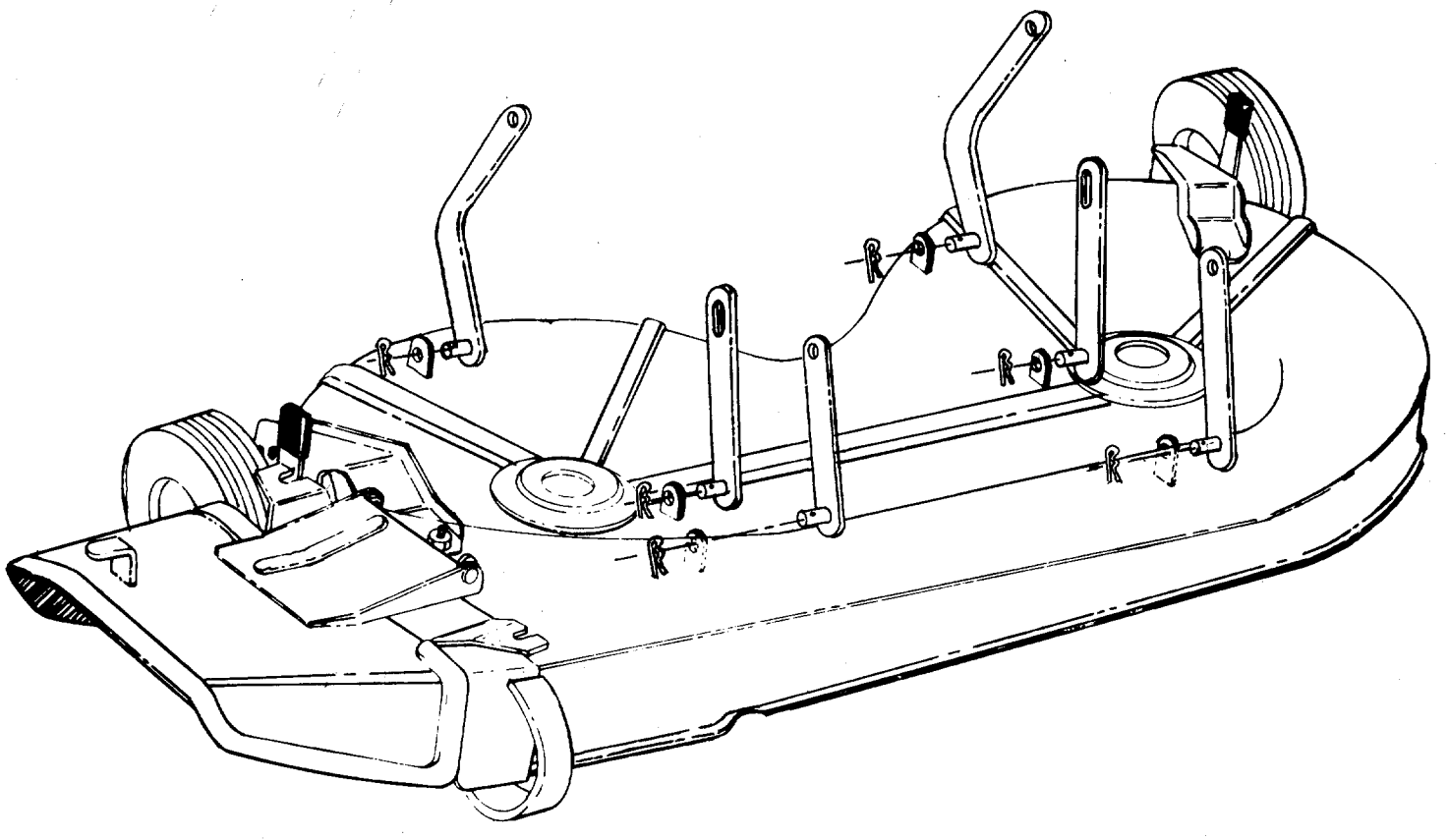
When ordering parts, if color or finish is important use the appropriate color code shown above (e.g. Red Flake Finish—11836 (462).)

DECK LINKAGE

NOTE

Refer to illustration below for proper deck link hookup. If the deck is removed for any reason use the illustration below for correct assembly.



PARTS INFORMATION

POWER EQUIPMENT PARTS AND SERVICE

Parts and service for all MTD manufactured power equipment are available through the authorized service firms listed below. All orders should specify the model number of your unit, parts numbers, description of parts and the quantity of each part required.

ALABAMA — **BIRMINGHAM**
Auto Electric & Carburetor Co...2625 4th Ave. S. 35233

ARKANSAS — **NORTH LITTLE ROCK**
Sutton's Lawn Mower Shop ..... Rt. 4, Box 368 72117
FORT SMITH
Mity Mite Motors, Inc. ..... 2515 Towson Ave. 72901

CALIFORNIA — **SAN BERNARDINO**
Lawn Mower Supply Co. ..... 25608 E. Baseline 92410
SAN FRANCISCO
J.W. Jewett Co. ..... 981 Folsom St. 94107
SACRAMENTO
Luttig & Severson ..... 2030 28th St. 95818

COLORADO — **DENVER**
South Denver Lawn Equip. .... 527 West Evans 80223

CONNECTICUT — **SUFFIELD**
The Jones & Ramsey Co. ..... 850 Thompsonville Rd. 06078

FLORIDA — **JACKSONVILLE**
Radco Distributors ..... 2403 Market St. 32206
CORAL GABLES
Moz-All of Florida, Inc. ..... 365 Greco Ave. 33146

GEORGIA — **EAST POINT**
East Point Cycle & Key ..... 2834 Church St. 30344

ILLINOIS — **LYONS**
Keen Edge Co. ..... 8615 Ogden Ave. 60534

INDIANA — **ELKHART**
Parts & Sales Inc. ..... 2101 Industrial Pkwy. ..46514
CORYDON
Brown Equip. Dist., Inc. ..... 110 Beech St. 47112

IOWA — **DUBUQUE**
Power Lawn & Garden Equip. . 2551 J.F. Kennedy 52001

KANSAS — **WICHITA**
Hixon, Inc. ..... 3030 Mascot 67204

LOUISIANA — **NEW ORLEANS**
Suhren Engine Co. ..... 8330 Earhart Blvd. 70118

MARYLAND — **TAKOMA PARK**
Center Supply Co. .....6867 New Hampshire Ave. 20012

MASSACHUSETTS — **SPRINGFIELD**
Morton B. Collins Co. ..... 300 Birnie Ave. 01107

MICHIGAN — **MOUNT CLEMENS**
Power Equipment Dist. ..... 36463 South Gratiot ... 48043
LANSING
Lorenz Service Co. ..... 2500 S. Pennsylvania .. 48900

MINNESOTA — **MINNETONKA**
Hance Distributing Inc. ..... 11212 Wayzata Blvd. ..55343

MISSISSIPPI — **BILOXI**
Biloxi Sales & Service, Inc. .... 506 Caillavet St. 39533

MISSOURI — **KANSAS CITY**
Automotive Equip. Service ..... 3117 Holmes St. 64109
ST. LOUIS
Henzler, Inc. ..... 2015 Lemay Ferry Rd. 63125

NEBRASKA — **OMAHA**
R.P.W., Inc. ..... 7402 "L" St. 68127

BRIGGS & STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing *Engines — Gasoline*, Briggs & Stratton or Tecumseh Lauson —

NEW YORK — **CARTHAGE**
Gamble Dist., Inc. ..... West End Ave. 13619
SYRACUSE
Kimber's, Inc. ..... 115 N. Geddes St. 13204
ROCHESTER
Henry W. O'Neil & Associates ..410 N. Goodman St. ... 14609

NORTH CAROLINA — **GREENSBORO**
Dixie Sales Company ..... 327 Battleground Ave.. 27402
GOLDSBORO
Smith Hardware Co. ..... 515 N. George St. 27530

OHIO — **WADSWORTH**
National Central ..... 687 Seville Rd. 44281
CLEVELAND
Bleckrie, Inc. ..... 7900 Lorain Ave. 44102
CARROL
Stebe's Mid-State Mower Supply Box 366 43112
WILLARD
Sunshine Wholesale Tire Outlet Route 224 44890
MANSFIELD
McClure Lawn & Garden Supply...1114 Lexington Ave. . 44903

OKLAHOMA — **MUSKOGEE**
Victory Motors, Inc. .....605 S. Cherokee 74401
ADA
Ada Auto Supply ..... 301 E. 12th St. 74820

OREGON — **PORTLAND**
Kenton Supply Co. .....8216 N. Denver Ave. . 97217

PENNSYLVANIA — **LANCASTER**
Raub Supply Co. ..... James & Mulberry Sts...17604
PITTSBURGH
Bluemont Co. ..... 11125 Frankstown Rd.. 15235

TENNESSEE — **KNOXVILLE**
Master Repair Service ..... 2423 Broadway, N.E. ..37917
MEMPHIS
Memphis Cycle & Supply Co. .... 421 Monroe Ave. 38103
American Sales & Service, Inc.. 1922 Lynnbrook 38117

TEXAS — **DALLAS**
Marr Brothers, Inc. ..... 423 E. Jefferson 75203
HOUSTON
Bullard Supply Co. ..... 2409 Commerce St. 77003
SAN ANTONIO
Catto & Putty, Inc. ..... P.O. Box 2408 78206
FORT WORTH
Woodson Sales Corp. ..... 1702 N. Sylvania ..... .76111

UTAH — **SALT LAKE CITY**
A-1 Engine & Mower Co. ..... 437 E. 9th St. 84111

VERMONT — **BURLINGTON**
Vermont Appliance Co. ..... 44 Lakeside Ave. 05401

VIRGINIA — **RICHMOND**
RBI Corp. ..... 963 Myers St. 23260

WASHINGTON — **SEATTLE**
Bailey's Rebuild, Inc. ..... 1325 E. Madison St. ...98102

WEST VIRGINIA — **CHARLESTON**
Young's, Inc. ..... 233 Virginia St., E. ... 25301

WISCONSIN — **APPLETON**
Automotive Supply Co. ..... 123 S. Linwood Ave. ..54911

WARRANTY PARTS AND SERVICE POLICY

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture, It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions over which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES

1. **Replacement of Missing Parts** on new equipment.
2. **Replacement of Defective Parts** within the warranty period.
3. **Repair of Defects** within the warranty period.

All claims MUST be substantiated with the following information:

1. Model Number of unit involved.
2. Date unit was purchased or first put into service.
3. Date of failure.
4. Nature of failure.