Operating/Service Instructions

RIDING MOWER

Model Nos. 133-430, 133-434 & 133-435

IMPORTANT

SAFE OPERATION PRACTICES FOR RIDING VEHICLES

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 (motor).
6. Disengage power to attachment(s) and stop engine (motor) before leaving operator position.
7. Disengage power to attachment(s) and stop engine (motor) 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 (motor) 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 (motor) is running if operator must dismount to do so.
    (3) Shut engine (motor) 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.

MTD PRODUCTS INC • 5389 WEST 130th STREET • P. O. BOX 2741 CLEVELAND OHIO 44111

FORM NO. 770-4149

ASSEMBLY

GRASS CATCHER Model No. 193-015 is available as optional equipment for the mowers shown in this manual.

WARNING

1. 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. 764-121.

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

NOTE

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

Your mower is shipped assembled except for the steering wheel, seat and battery on the electric start model.

STEERING WHEEL ASSEMBLY See figure 1.

Step 1. Line up the hole in the steering column and the hole in the tubing assembly and drive in the roll pin with a hammer.

NOTE

It may be necessary to use a drift to line up the holes.

Step 2. Place the end caps on the spacer.

Step 3. Slide the spacer over the tubing assembly until it lays flush against the steering box.

Step 4. Place the steering wheel on the tubing shaft.

Step 5. Secure in place with Belleville washer and hex nut.

Step 6. Put on steering wheel cap by hand.

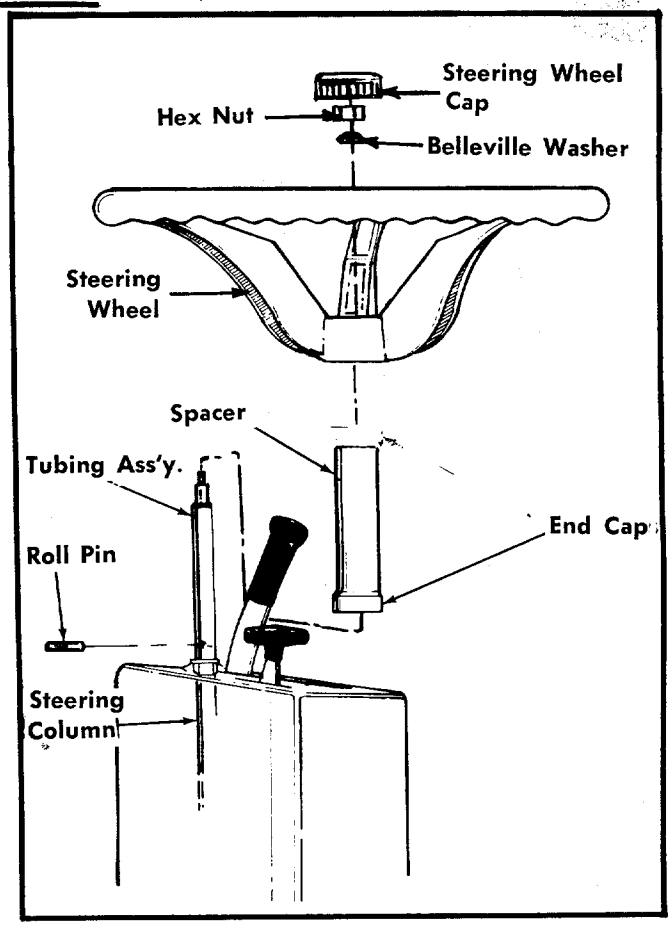


FIGURE 1. STEERING WHEEL ASSEMBLY

SEAT ASSEMBLY. See figure 2.

Step 7. Your molded seat comes with the mounting bolt molded in the seat.

a. Select one of three hole locations on seat bracket.

b. Place seat on bracket and secure with spring lockwasher and hex nut.

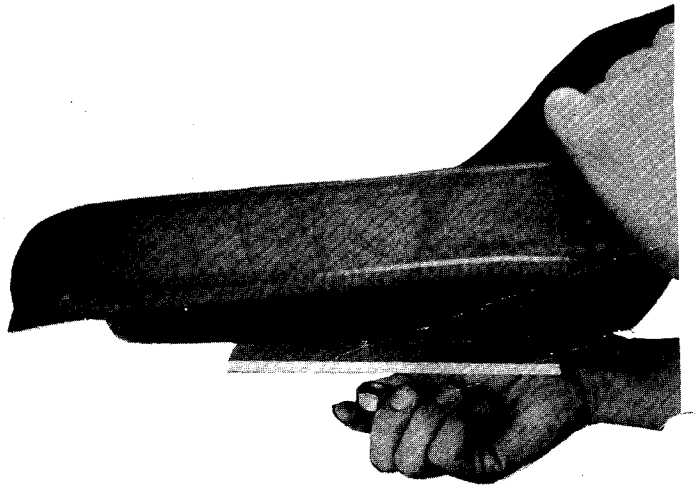


FIGURE 2. SEAT ASSEMBLY

TIRE PRESSURE

The tire are over-inflated for shipping. Reduce the tire pressure from 7 to 10 Psi front and rear.

ACTIVATING THE BATTERY (Electric Start Models Only)

WARNING

Since battery acid is corrosive to metals, do not pour into any sink or drain. Rinse empty Electrolyte containers and mutilate before discarding. If acid is accidentally spilled on battery during filling or charging, or on bench or clothing, etc., flush off with clear water and neutralize with soda or ammonia solution.

Step 1. Place the battery to be filled on a bench. Never activate the battery in the mower.

Step 2. Remove the vent plugs.

Step 3. Place the acid pack in the upright position, pull the tab back to the edge of the carton, pull out hose, snip off end.

Step 4. Fill each cell until the electrolyte level rises to the split ring at the bottom of the vent well.

CAUTION

Do not over-fill.

Step 5. After filling the cells, wait five to ten minutes and add additional electrolyte if necessary to bring it up to the proper level.

Step 6. Replace the vent caps.

Step 7. Using the battery charger packed with your mower, charge the new battery for 2 hours before installing it in the riding mower.

NOTE

If you want to use a larger rated charger, use this guide.

25-30 amps	10 to 15 minutes
4-6 amps	30 minutes

INSTALLING THE BATTERY (Electric Start Models Only) See figure 3.

Step 1. Tip the seat bracket forward to expose the battery box.

Step 2. Remove screw (A) and lockwasher (B).

Step 3. Lift out the battery box bracket.

Step 4. Place the battery in the battery box with the positive terminal (+) to the front of the rider.

Step 5. Attach the large red wire from the solenoid and the small red wire to the positive (+) terminal of the battery with a ¼" screw (E), washer (D) and nut (C).

Step 6. Attach the large red wire from the ground (–) to the negative (–) terminal of the battery with a ¼" screw (E), washer (D) and nut (C).

Step 7. Replace the battery box bracket with screw (A) and washer (B). See figure 3.

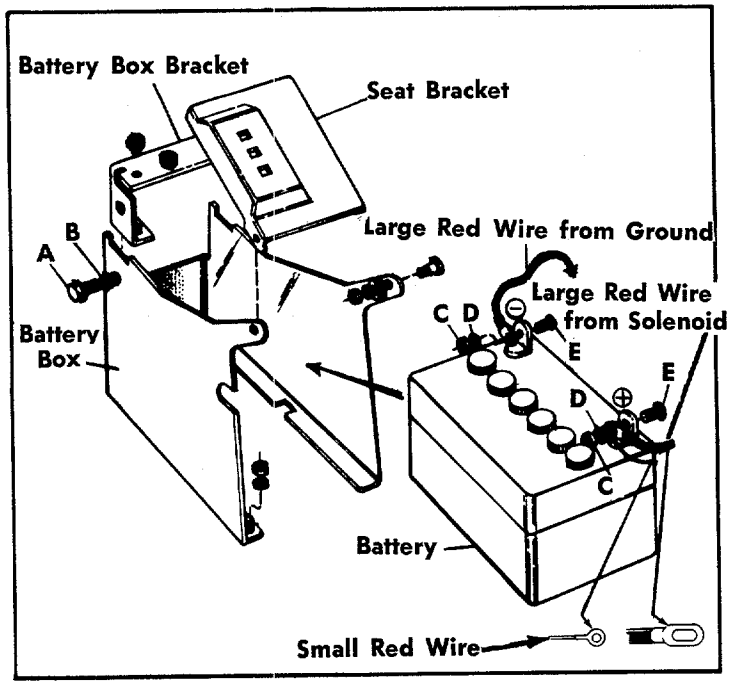


FIGURE 3. INSTALLING THE BATTERY

BATTERY CHARGER

1. Your battery may be charged in your rider without removing it or without disturbing the cable connectors at the battery terminals.

2. Be sure the switch is in the 12 o'clock position.

3. Connect battery clips to battery terminals. Clip with (+) mark connects to positive terminal of the battery. Clip with no marking connects to negative terminal of battery. (Red clips are + and black clips are –.) Be sure that battery terminals are clean where charger clips are to be connected. Move clips back and forth several times to be sure a tight connection is made.

4. If sparking occurs at battery clips when connecting them to battery terminals the clips should be reversed on the battery terminals.

5. Make sure the voltage of the battery is the same as that of the charger, as mentioned before. Connect AC plug to an alternating current outlet of the same voltage and frequency as shown on the name plate of the charger. (To prevent short circuiting of the battery charger, be sure to connect clips to battery terminals before plugging into the AC outlet.)

6. Your battery charger is equipped with an automatic circuit breaker which protects the charger against short circuits and overloads which cause the circuit breaker to trip open when they occur. After a short cooling off period the circuit breaker will "reset" automatically and allow the charger to operate normally. If the circuit-breaker trips open, make sure battery connections are correct.

7. If the charger continues to trip and you have checked your connections to see that they are correct, the probable cause is in the battery, which may have been allowed to discharge below its normal discharge condition or it may have one or more shorted cells. If this condition exists it will draw too much current and cause the circuit breaker to trip on and off. This will continue until the battery has recovered sufficiently to allow a normal charging current.

8. The charging rate depends upon the AC supply voltage and the internal condition of the battery. Under certain of these conditions the charger may not deliver its maximum charging rate to the battery, but this should not be taken as an indication that the charger is inefficien.

9. The average time required to charge a battery is 8-10 hours for a completely discharged battery.

CONTROLS See figure 5.

This manual should be read in its entirety before you operate your Riding Mower. The more you know and understand about the machine and its operation, the better job it will do for you. While reading the manual, compare the illustrations with your mower to familiarize yourself with the locations of various controls, lubrication points, attachments and adjustment features.

Study the operating instructions and safety precautions thoroughly to insure proper functioning of your mower and to prevent injury to yourself and others. Be sure to save this manual for future reference.

THROTTLE CONTROL

The throttle control is used to regulate the engine speed and to activate the choke on the engine. To get the maximum efficiency on cutting, the throttle should be in the FAST position when operating the mower. Pushing the throttle all the way forward, past FAST will choke the engine.

IGNITION KEY

Recoil Model. The key must be turned to the ON position before you pull the recoil handle to start the engine. Remove the key when the mower is not in use. Turn the key to the left to the OFF position to stop the engine.

LIFT AND DISENGAGEMENT LEVER

The lift and disengagement lever is used to raise and lower the cutting deck, set the cutting height, and disengage the cutting blades.

Move the lever to the left and pull the lever all the way back and lock it to disengage the blades. The lever may be set in any one of the five cutting height positions. This lever works in conjunction with the deck wheel adjusters.

Electric Model. The key must be turned to the START position to start the engine. After the engine is running let the key return to the ON position. Remove the key when the mower is not in use. Turn the key to the OFF position to stop the engine.

INTERLOCKS (Not Shown)

An interlock safety switch is located on the clutch pedal and the lift and disengagement lever.

The clutch pedal must be depressed all the way down (the speed control handle can be pulled back to lock it down) and the lift and disengagement lever must be in the STOP position (all the way back) before the engine can be started.

On the recoil start model, the ignition will be grounded and on the electric start model, the starter will not run.

GEAR SHIFT LEVER

The gear shift lever has three positions, FORWARD, NEUTRAL and REVERSE. The clutch pedal must be depressed and the rider must not be moving when shifting gears. You may not be able to shift gears when the speed control handle is all the way back. Do not force the shift lever. Release the clutch pedal slightly to line up the shifting collar in the transmission and then try to shift.

BRAKE

To operate the brake depress the right pedal all the way down. To lock the brake in the park position, pivot the pedal forward with your foot as you depress it. It will stay in the depressed position. To release the parking brake, pivot the pedal to the rear.

DECK WHEEL ADJUSTERS

Always set both deck wheels in the same relative position. Set these wheels after you set the Lift and Disengagement Lever so they just clear the ground. This will prevent scalping the grass.

CLUTCH PEDAL

The clutch pedal on the left side when depressed reduces your ground speed and disengages the engine from the transmission when depressed all the way down. It can be held in the disengaged position by pulling the Speed Control Handle into the locked position (all the way back). To stop the mower, depress the Clutch and Brake Pedals.

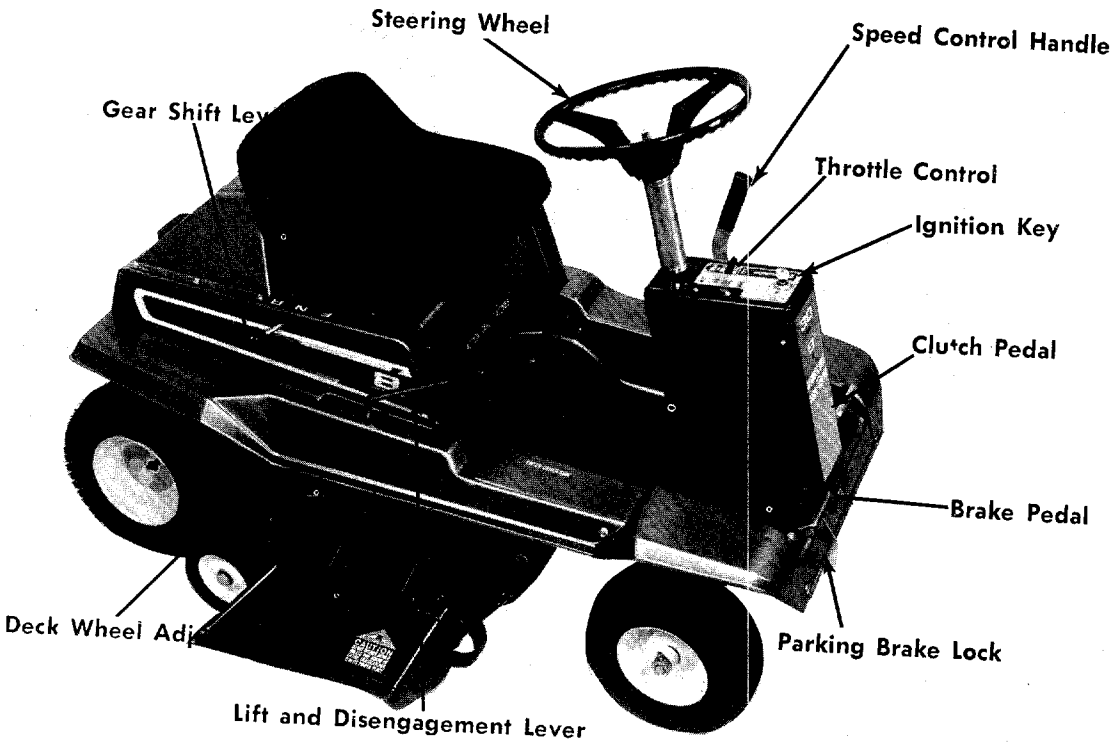


FIGURE 4. CONTROLS

SPEED CONTROL HANDLE. See figures 4 and 5.

The Speed Control Handle can be used as a hand control for the clutch pedal and is also used to lock the clutch pedal in the disengaged position by pulling it all the way back towards the operator.

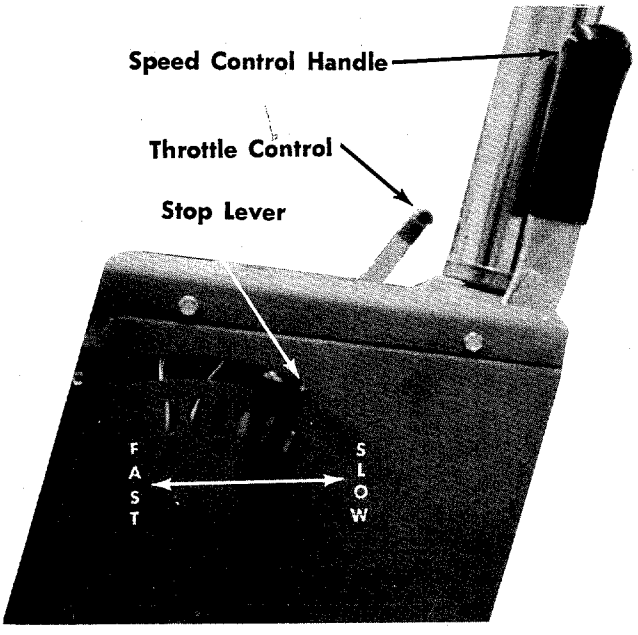


FIGURE 5. SPEED CONTROL

STOP LEVER. See figures 4 and 5.

The Stop Lever allows you to regulate the maximum ground speed of the riding mower by setting the Stop Lever in any one of the five settings.

NOTE

The farther forward the Stop Lever is set, the faster your ground speed.

Depressing the clutch pedal at any time will slow you down or, if depressed all the way, will stop the mower.

STOPPING

Engine—Turn the ignition key to the left to the OFF position.

Rider—Depress the clutch and brake pedals.

Blades—Pull the lift and disengagement lever all the way back and lock it.

OPERATING INSTRUCTIONS

CAUTION

1. Keep all shields and guards in place.
2. Before leaving operator's position:
   - Shift controls into neutral
   - Set parking brake
   - Disengage attachment drive
   - 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.

STARTING THE ENGINE

1. Be sure the crankcase is filled with oil as recommended in the engine manual and put regular gasoline in the gasoline tank.

2. Be sure the fuel shut off valve located on the carburetor is open.

3. Attach the wire to the spark plug.

4. Depress the clutch pedal and lock it down with the speed control lever.

5. Pull the lift and disengagement lever all the way back to the disengaged position and lock it.

6. Set the throttle control lever in the CHOKE position.

7. **Recoil Model.** Turn the ignition key to the ON position, twist the recoil starter handle until it is free and pull it with a quick steady motion. After the engine starts, return the recoil starter handle and twist it until it locks. See figure 6.

NOTE

If you do not do this the engine will quit running as soon as you engage the clutch or blades.

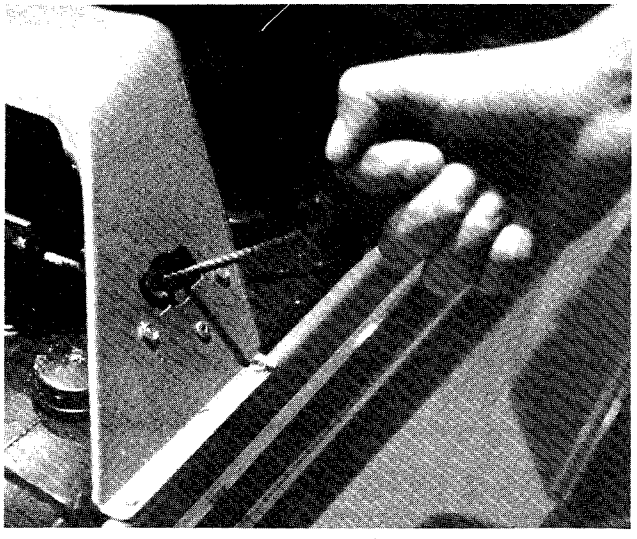


FIGURE 6. RECOIL STARTER

Electric Start Model. Turn the ignition key to the START position. As soon as the engine starts let the key return to the ON position.

Slowly return the throttle to the running position as soon as the engine starts.

8. To stop either model, turn the ignition key to the OFF position and remove the key when the rider is not in use.

PUTTING THE RIDER IN MOTION

1. Advance the throttle control from ¾ to full throttle to prevent strain on the engine and to operate the cutting blades.

2. Set the stop lever in the slowest position.

3. Hold the clutch pedal down with your left foot and release the speed control lever.

4. Place the gear shift lever in either the FORWARD or REVERSE position.

5. Slowly release the clutch pedal.

6. To stop the rider, depress the clutch pedal and the brake pedal.

7. The blades can be engaged either while moving or while standing still. Move the lift and disengagement lever forward slowly until the blades are running.

After you feel you can control the machine in the slower speeds, set the stop lever in a faster position. The rider will maintain the highest speed you set without you touching the controls. If you want to slow down, depress the clutch pedal until you attain the speed you want. When you remove your foot from the clutch pedal the rider will operate at the highest speed that you set on the stop lever.

MAINTENANCE AND ADJUSTMENTS

THROTTLE CONTROL

To Check Operation:

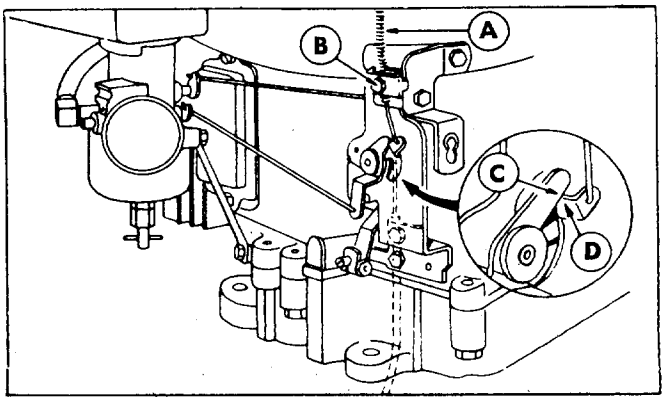
1. Remove air cleaner.

2. Move throttle control lever to CHOKE position. The carburetor choke should be closed.

3. Move throttle control lever to STOP position. Lever should make good contact with stop switch.

To Adjust: See figure 7.

Place throttle control lever 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". Replace air cleaner.



CARBURETOR ADJUSTMENT

Carburetors are adjusted at the factory and normally do not need adjustment unless they have been disassembled.

Initial Adjustment After Re-assembly. See figure 8. Turn needle valve clockwise until it just closes. CAUTION: Valve may be damaged by turning it too far. Now open needle valve 1-1/8 turns counterclockwise. Close idle valve in same manner and open 1-1/8 turns. This initial adjustment will permit the engine to be started and warmed up prior to final adjustment.

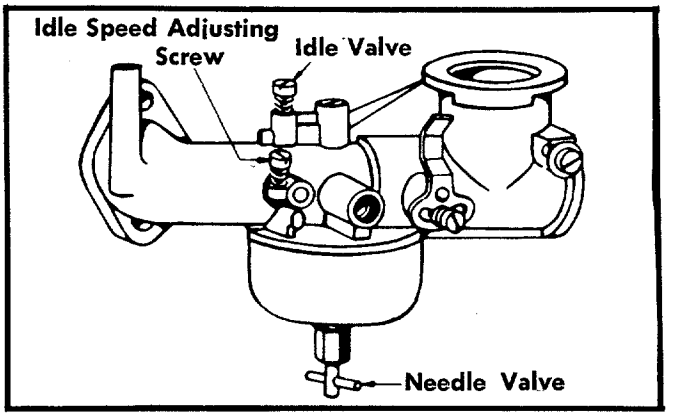


FIGURE 8. CARBURETOR ADJUSTMENT

Final Adjustment. See figure 8.

Turn needle valve in until engine misses (lean mixture). Then turn it out past smooth operating point until engine runs unevenly (rich mixture). Now turn needle valve to the mid-point between rich and lean so the engine runs smoothly.

Hold throttle at idle position and set idle speed adjusting screw until fast idle is obtained (1750 RPM). Hold throttle in idle position and turn idle valve in (lean) and out (rich) until engine idles smoothly. Then reset idle speed adjusting screw so that engine idles at 1750 RPM. Release throttle—engine should accelerate without hesitation or sputtering. If engine does not accelerate properly the carburetor should be re-adjusted to a slightly richer mixture.

CHAIN ADJUSTMENT

After the first five hours of operation the initial slack should be removed from the chain. The chain should be tight enough so that it deflects approximately ½" when it is depressed with the thumb.

To Adjust:

The adjusting bolt is located under the frame, above the cutting deck on the right side of the mower.

Turn the adjusting bolt clockwise with an open end wrench until the chain reaches the proper tension.

NOTE

If the transmission mounting plate will not slide forward to adjust the chain tension, it may be necessary to loosen the four nuts mounting the transmission to the frame.

To adjust the brake tighten the locknut one half turn and then test the brakes.

The brake is located by the right rear wheel inside the frame.

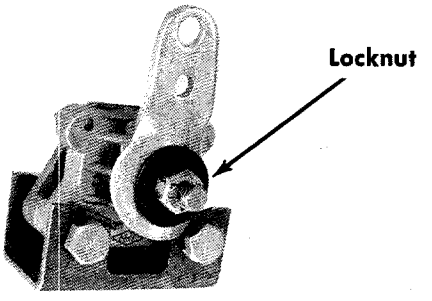


FIGURE 9. BRAKE ADJUSTMENT

BLADES

WARNING

Disconnect the spark plug wire and remove the ignition key before removing the blades.

Sharp and balanced blades are essential for efficient mowing and long mower and engine life. When sharpening blades, file equal amounts of metal from each side. The blades should be balanced before they are reinstalled. An unbalanced blade will cause excessive vibration and undue wear on the mower and the engine. When reassembling, all parts must be installed in the proper order and fastened securely.

Remove the ⅜" bolt and lockwasher. Pull the blade and adapter off the mower deck. To remove the adapter from the blade, remove the two 5/16" bolts, lockwashers and nuts. See figure 10.

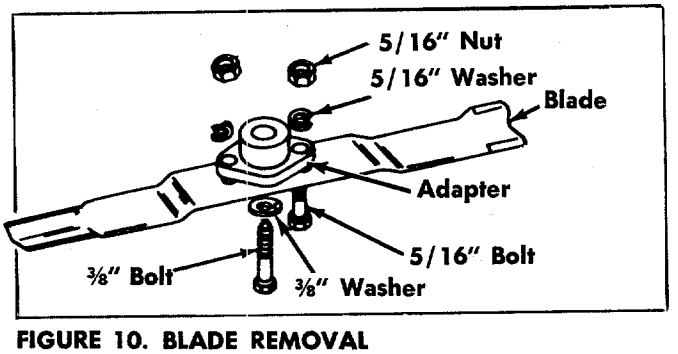


FIGURE 10. BLADE REMOVAL

MOWER DECK

The underside of the mower deck should be cleaned after each period of use as grass clippings, leaves, dirt and other matter will accumulate. This accumulation of grass clippings, etc., is undesirable as it will invite rust and corrosion and may cause an uneven discharge of grass clippings at the next mowing.

The deck may be cleaned by tilting the mower on its front wheels until the frame and the steering wheel supports the entire unit. Scrape clean with a suitable tool or by washing with a stream of water from a garden hose. Be sure to disconnect the spark plug wire and ground it while performing this maintenance.

BELT REMOVAL. See figure 11.

To remove either or both belts:

1. Place the speed control lever in the locked position.
2. Move the lift and disengagement lever into the disengaged position.
3. Remove the two rear hex nuts on the engine bolts to remove the engine belt guard and slide the guard away from the chain and remove it.
4. Remove the blade drive belt from the engine pulley.
5. With the lift and disengagement lever lower the cutting deck all the way down.

NOTE

If you do not want to remove the blade drive belt go to step 8.

6. Remove the deck belt guards.
7. Remove and replace the belt.

To remove the variable speed belts:

8. Remove the variable speed pulley by removing the center hex nut and lockwasher.
9. Remove the transmission pulley by removing the hex nut and washer.
10. The belts can now be removed.

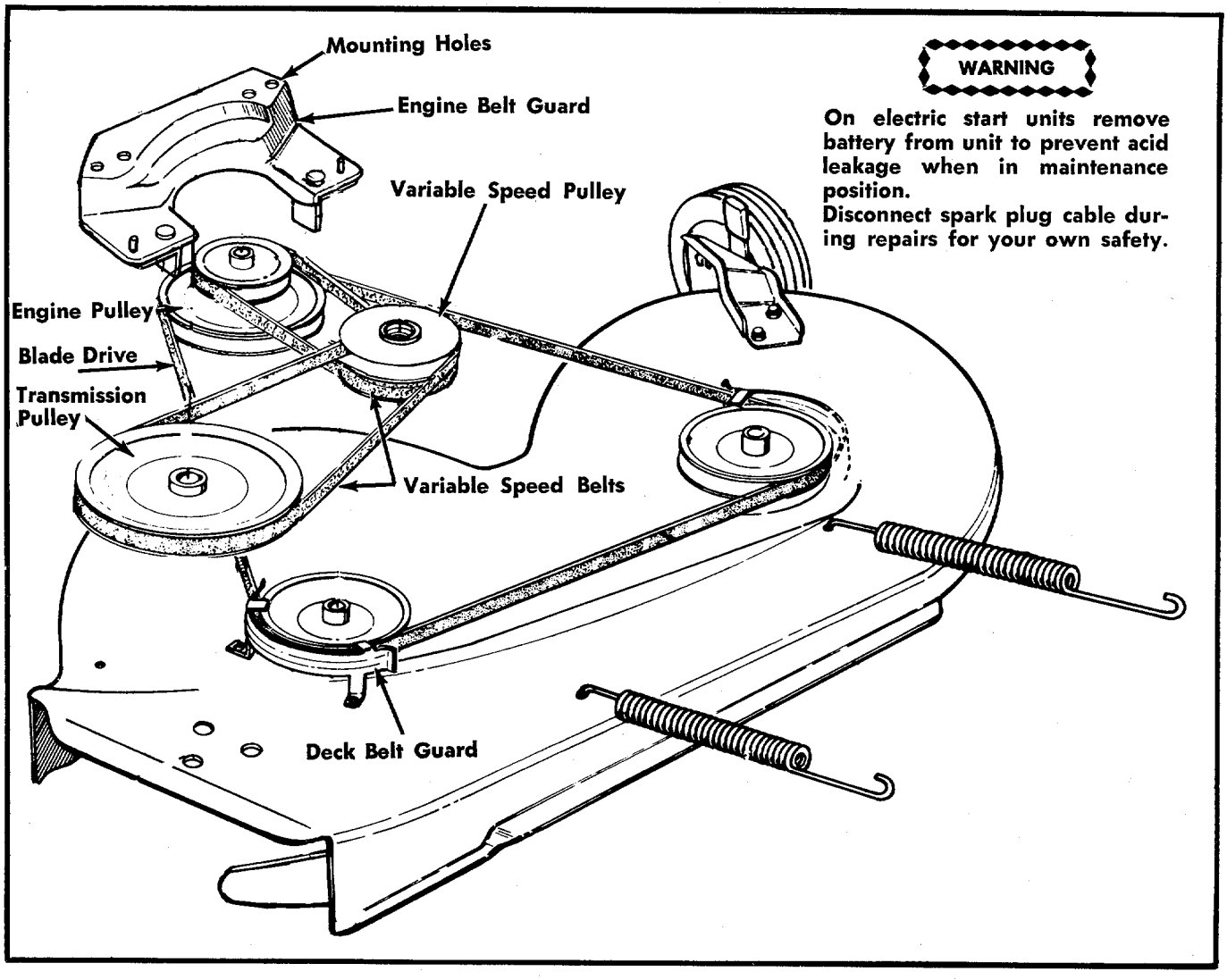


FIGURE 11. BELT REMOVAL

LUBRICATION

1. **Engine.** Maintain the engine oil according to the engine manual.

2. **Bearings.** The following bearings are oil impregnated and do not require lubrication, however, their normal life can be extended by lubricating them once a season with a light, non-detergent oil.

   A. King Pin Bearings (total 4 bearings)

   B. Rear Axle Bearings (total 3 bearings)

   C. Front Wheel Bearings (total 4 bearings)

   D. Deck Wheel Bearings (total 4 bearings)

3. **Throttle Control and Cable.** Wipe oiled rag along entire length of cable.

4. **Chain.** Wipe oiled rag along entire length of chain.

NOTE

Under extremely dusty conditions do not oil the chain.

5. **Linkage.** Oil all deck linkage and height adjustment linkage.

6. **Transmission.** Lubricated at the factory, does not require checking. Lubricate with 5 oz. of grease, high temp. 450°F, if disassembled.

7. **Differential.** Lubricated at the factory, does not require checking. Lubricate with 2 oz. of grease, high temp. 450° F if disassembled. If ordered from the factory use Part No. 737-120.

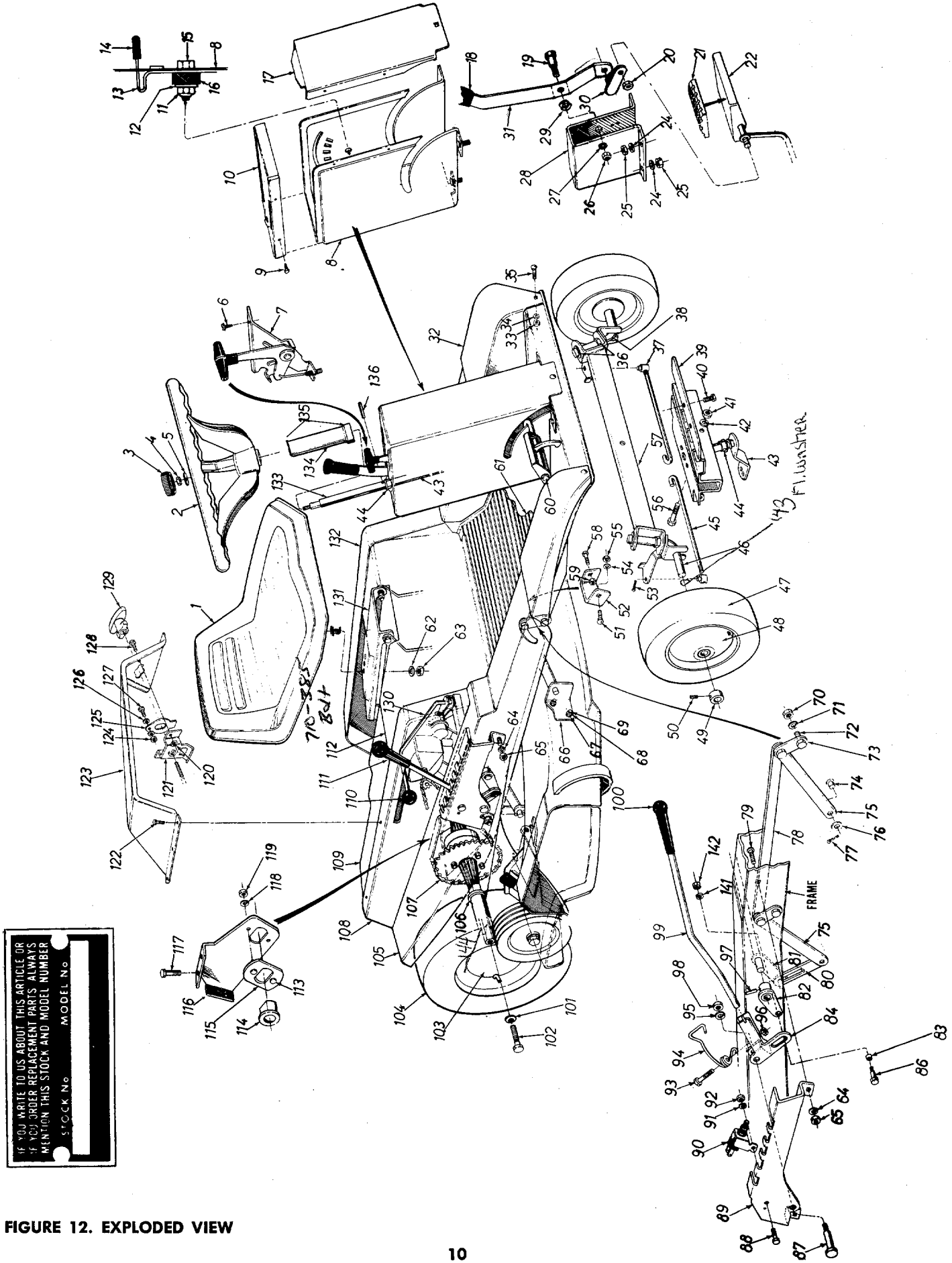


FIGURE 12. EXPLODED VIEW

PARTS LIST FOR FIGURE 12 MODEL NO. 133-430, 434 AND

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	757-241		Seat Ass'y. 10.0" Back	N
2	731-219		Steering Wheel 12." Dia.	N
3	731-220		Steering Wheel Cap	N
4	712-158		Hex Center Locknut 5/16-18 Thd.	
5	736-219		Belleville Washer .400 I.D. x 1.13 O.D.	
6	710-224		Hex AB-Tapp. Scr. #10 x .50" Lg.	
7	746-177		Throttle Control 53.0" Lg.	
8	11375		Steering Box	
9	710-224		Hex AB-Tapp. Scr. #10 x .50" Lg.	
10	11373		Steering Box—Top Cover	
11	712-429		Hex Inserted Locknut 5/16-18 Thd.	
12	736-159		Flat Washer .344 I.D. x .88 O.D.	
13	10358		Handle Stop	
14	11249		Plastic Knob—For Handle Stop	
15	738-234		Shoulder Scr .500 Dia. x .295	
16	735-126		Rubber Washer .33 I.D. x .87 O.D.	
17	10818		Steering Box—Front Cover	
18	720-142		Flat Bar End Grip	
19	738-234		Shoulder Scr. .500 Dia. x .295	
20	712-107		Hex Center Locknut ¼-20 Thd.	
21	10614		Pedal Pad—Vinyl	
22	11379		Clutch Foot Pedal Rod Ass'y.	
24	736-119		Spring Lockwasher 5/16" Scr.*	
25	712-267		Hex Nut 5/16-18 Thd.*	
26	712-798		Hex Nut ⅜-16 Thd.*	
27	736-169		Spring Lockwasher ⅜" Scr.*	
28	10832		Brake Lever Bracket	
29	736-232		Wave Washer .530 I.D. x .78 O.D.	
30	10064		Lockout Link Ass'y.	
31	11277		Lockout Lever	
32	10810	—458	Fender L.H. (133-430 & 435 Only)	
33	712-287		Hex Nut ¼-20 Thd.*	
34	736-329		Spring Lockwasher ¼" Scr.*	
35	710-134		Carriage Bolt ¼-20 x .62" Lg.*	
36	748-227		Hex Flange Bearing .630 I.D. Bronze	
37	711-198		Pivot Bushing (Tie Rod End)	
38	9709	—458	Front Wheel Axle Ass'y.—L.H.	
39	11376	—458	Front Pivot Bracket	
40	710-198		Hex Sems Scr. 5/16-18 x .75" Lg.*	
41	712-923		Hex Center Locknut ⅝-18 Thd.	
42	736-158		Spring Lockwasher ⅝" Scr.*	
43	9922		Steering Shaft Assembly	
44	748-227		Hex Flange Bearing .630 I.D. Bronze	
45	711-335		Tie Rod	
46	9706	—458	Front Wheel Axle Ass'y.—R.H.	
47	734-483		Front Wheel Ass'y.—Comp. 10.5 x 3.50	N
	734-484		Front Wheel—Tire Only 10.5 x 3.50	N
48	734-486		Front Wheel Rim Ass'y. Only (Includes Hub)	N
49	711-169		Collar ⅝" I.D.	
50	710-494		Sq. Hd. Set Scr. 5/16-18 x .38" Lg. Cup	
51	710-134		Carriage Bolt ¼-20 x .62" Lg.*	
52	10806	—458	Fender Brace (133-430 & 435 Only)	
53	714-507		Cotter Pin 3/32" Dia. x 1.00" Lg.*	
54	736-329		Spring Lockwasher ¼" Scr.*	
55	712-287		Hex Nut ¼-20 Thd.*	
56	710-312		Hex Hd. Cap Scr. ⅝-18 x 1.31" Lg.	
57	9711	—458	Pivot Bar Assembly	
58	710-252		Hex Hd. Cap Scr. ¼-20 x .75" Lg.*	
59	712-287		Hex Nut ¼-20 Thd.*	
60	726-221		Push Cap ½" Dia.	
61	735-117		Floor Mat 3/32—Running Board	
62	736-921		Spring Lockwasher ½" Scr.*	

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

458—Arctic Blue Flake

When ordering parts if color or finish is important, use the appropriate color code shown at left (e.g. Arctic Blue Flake finish—10057 (458)).

The engine is not under warranty by the mower manufacturer. If repairs or service is needed on the engine, please contact your nearest authorzed engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines—Gasoline."

PARTS LIST FOR FIGURE 12 (CONTINUED)

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
63	712-206		Hex Nut ½-13 Thd.*	
64	736-119		Spring Lockwasher 5/16" Scr.*	
65	712-267		Hex Nut 5/16-18" Thd.*	
66	11168		Lift Bracket	
67	736-329		Spring Lockwasher ¼" Scr.*	
68	712-287		Hex Locknut ¼-20 Thd.*	
69	710-289		Hex Hd. Cap Scr. ¼-20 x .50" Lg.*	
70	712-267		Hex Nut 5/16-18 Thd.*	
71	736-119		Spring Lockwasher 5/16" Scr.*	
72	738-140		Shoulder Scr. .437" Dia. x .180	
73	9721	—458	Pivot Link Assembly	
74	711-332		Lift Bracket Pin	
75	9761	—458	Deck Link Assembly	
76	736-192		Flat Washer .531 I.D. x .93 O.D.	
77	714-101		Internal Cotter Pin ½" Dia.	
78	9735	—458	Connecting Rod 3/16 x 1.0 x 12.5" Lg.	
79	710-260		Carriage Bolt 5/16-18 x .62" Lg.*	
80	9737	—458	Link Slotted	
81	11830	—458	Lift Shaft Assembly	N
82	11831	—458	Lift Hub Assembly	N
83	750-195		Roller—Spacer .505 I. D. x .628 O.D.	N
84	11827	—458	Handle Lift Bracket Ass'y.	N
86	738-234		Shoulder Scr. .500" Dia. x .295	
87	738-213		Shoulder Screw .498" Dia. x 1.450	
88	710-258		Hex Hd. Cap Scr. ¼-20 x .62" Lg.*	
89	11825	—458	Index Bracket	N
90	725-268 725-269		Safety Switch (133-434 & 435) Safety Switch (133-430 Only)	
91	736-329		Spring Lockwasher ¼" Scr.*	
92	712-287		Hex Nut ¼-20 Thd.*	
93	710-559		Hex Hd. Cap Scr. ¼-28 x 1.75" Lg.*	N
94	732-231		Torsion Spring	
95	736-169		Spring Lockwasher ⅜" Scr.*	
96	712-117		Hex Center Lock Nut ¼-28 Thd.	
97	715-107		Spring Pin Spirol 5/16" Dia. x 1.38" Lg.	
98	712-798		Hex Nut ⅜-16 Thd.*	
99	11826		Lift Handle	N
100	720-143		Grip Black—Lift Handle	
101	736-242		Belleville Washer .345 I.D. x .88 O.D.	
102	710-0568		Hex ~~Hd.~~ IN Cap Scr. F 5/16-18 x .75 ~~.62 Special~~	
103	734-517		Rear Wheel Rim Ass'y. Only (Includes Hub)	N
104	734-523		Rear Wheel Ass'y.—Comp. 13.0 x 5.0	N
	734-298		Rear Wheel Tire Only 13.0 x 5.0	
105	10809	—458	Fender R.H. (133-430 & 435 Only)	
106	748-0151		Flange Bearing ~~with Flats .735 I.D.~~	
107	713-357		#41 Chain ½" Pitch x 67 Links	
	713-723		#41 Master Link ½" Pitch Type II	
108	10824	—458	Engine Box Side Panel—R.H.	
109	10827	—458	Engine Box Top Panel	
110	722-115		Ball Knob—Black 1⅜ x ⅜-16 Thd.	
111	720-143		Grip Black—Lift Handle	
112	10826	—458	Engine Box—Front Panel	
113	710-198		Hex Sems Scr. 5/16-18 x .75" Lg.*	
114	748-151		Flange Bearing with Flats .753 I.D.	
115	10470		Bearing Plate	
116	10471		Rear Axle Support Brkt. Ass'y.	
117	710-198		Hex Sems Scr. 5/16-18 x .75" Lg.*	
118	736-119		Spring Lockwasher 5/16" Scr.*	

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

458—Arctic Blue Flake

When ordering parts if color or finish is important, use the appropriate color code shown at left (e.g. Arctic Blue Flake finish—10057 (458)).

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PARTS LIST FOR FIGURE 12 (CONTINUED)

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
119	712-267		Hex Nut 5/16-18 Thd.*	
120	712-287		Hex Nut ¼-20 Thd.* (133-430 Only)	
121	11053		Switch Bracket Ass'y. (133-430 Only)	
122	710-224		Hex AB-Tapp Scr. #10 x .50" Lg.	
123	11528	—458	Engine Box Top Bezel (133-430 Only)	
	11527	—458	Engine Box Top Bezel (133-434 & 435)	
124	712-121		Hex Nut #10-24 Thd. (133-430 Only)	
125	732-257		Switch Spring (133-430 Only)	
126	736-338		Fiber Washer (133-430 Only)	
127	710-425		Truss Hd. Mach. Scr. #10-24 x .62" (133-430)	
128	710-351		Truss Hd. Self Tap Scr. #10 x .50" Lg. (133-430)	
129	11263		Handle—Plastic (133-430 Only)	
130	10846		Shift Lever Assembly	
131	10060	—458	Seat Bracket	
132	10825	—458	Engine Box Side Panel—L.H.	
133	750-209		Steering Tube Assembly	N
134	9920		Steering Tube Spacer	
135	9921		Bearing Cap	
136	715-108		Spring Pin Spirol ¼" Dia. x 1.00" Lg.	
137	9964		Steering Tube Spacer Ass'y. (Made up of Ref. No's. 134 and 135.)	
138	9963	—458	Hitch Bracket (Not Shown)	
139	11228		Plastic Funnel (Not Shown)	N
140	725-156		Battery Charger (Not Shown) (Electric Start Only)	
141	736-0105		~~Spring Lockwasher ⅜" Scr.*~~ Belleville Washer	
142	712-342		Hex Jam Nut ⅜-16 Thd.*	

#143 736-156 Fl. Washer (Running Line)
144 736-134 Fl. Washer

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

458—Arctic Blue Flake

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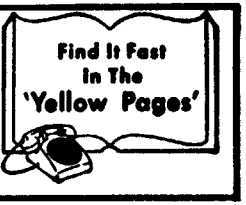
The engine is not under warranty by the mower manufacturer. If repairs or service is needed on the engine, please contact your nearest authorzed engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines—Gasoline."



NOTE: If for any reason disc brake is disassembled, be sure round end of push pins (Ref. No. 10) is toward the cam lever (Ref. No. 9).

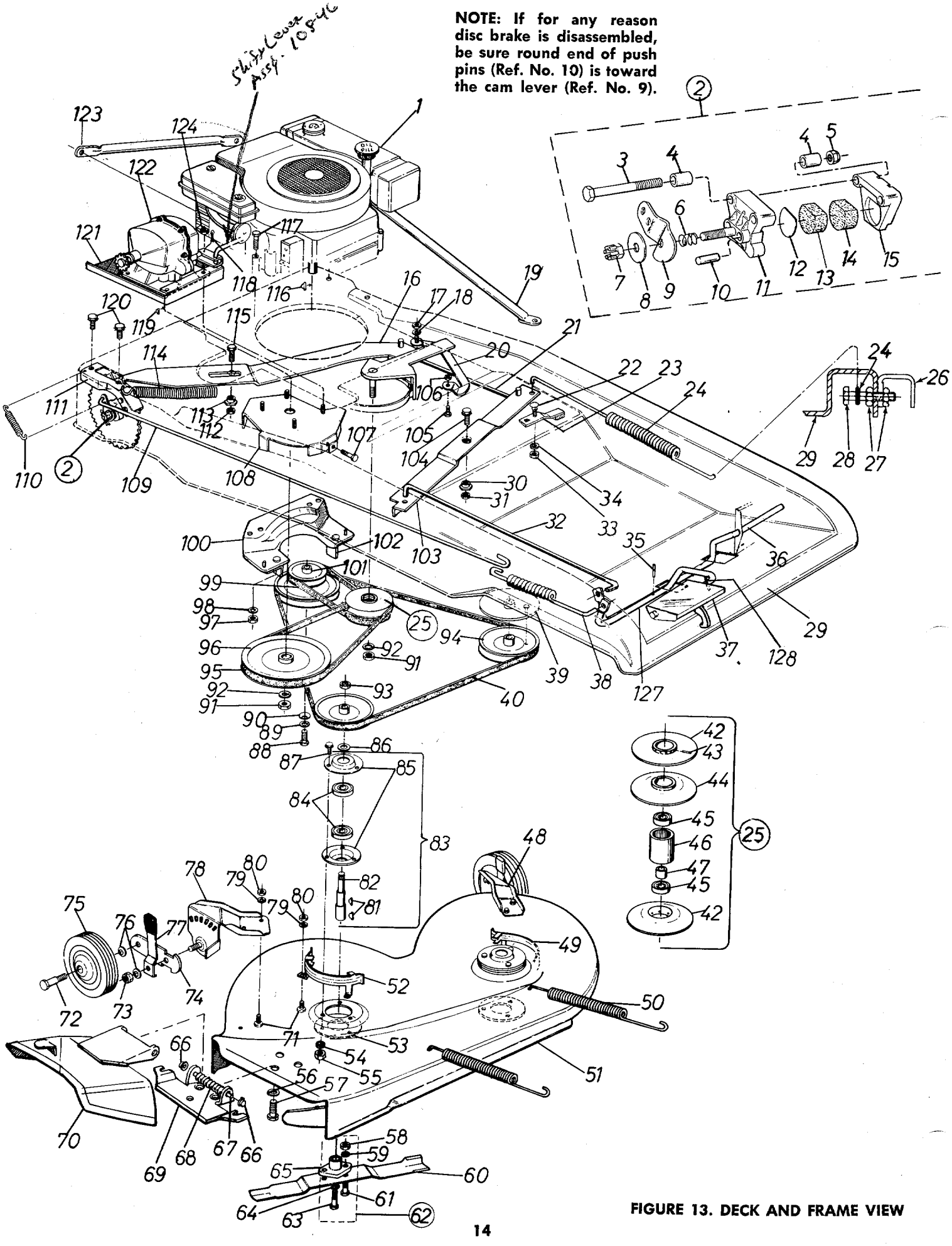


FIGURE 13. DECK AND FRAME VIEW

PARTS LIST FOR FIGURE 13. DECK AND FRAME VIEW

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	—		Engine	
2	761-130		Disc Brake Ass'y. Complete	
3	710-378		Hex Hd. Cap Scr. 5/16-18 x 2.50" Lg.*	
4	761-133		Spacer for Disc Brake .322 I.D. x .38	
5	712-158		Hex Center Locknut 5/16-18 Thd.*	
6	06-1029-0000		Spring	
7	02-1011-0000		Hex Locknut	
8	03-1030-0000		Washer	
9	18-1687-0000		Cam Lever	
10	05-1033-0000		Push Pin	
11	12-1984-0007		Casting Cam Side	
12	03-1345-0000		Back-up Disc	
13	15-1154-1079		Friction Pad .450 Thick	
14	15-1154-1049		Friction Pad .250 Thick	
15	12-1329-0000		Casting Carrier Side	
16	9785		Variable Speed Brkt. Ass'y.	
	10599		Variable Speed Pulley & Brkt. Ass'y. Comp.	
17	712-267		Hex Nut 5/16-18 Thd.*	
18	736-119		Spring Lockwasher 5/16" Scr.*	
19	10804		Engine Brace Assembly	
20	10173		Variable Speed Guide Brkt. Ass'y.	
21	10080		Variable Speed Rod	
22	710-134		Carriage Bolt ¼-20 x .62" Lg.*	
23	761-148		Blade Brake Assembly	
24	732-191		Spring .75 O.D. x 11.0" Lg. (Variable Sp. Pedal)	
25	10438		Variable Speed Pulley Ass'y.	
26	10801	458	Fender Brace (133-430 and 435 Only)	
27	712-287		Hex Nut ¼-20 Thd.*	
28	710-136		Hex Hd. Cap Scr. ¼-20 x 1.75" Lg. (133-430 & 435 Only)	
29	10057	458	Frame	
30	711-404		Shoulder Nut	
31	712-429		Hex Center Locknut 5/16-18 Thd.	
32	10078		Foot Pedal Rod—18.80" Lg.	
33	712-287		Hex Nut ¼-20 Thd.*	
34	736-329		Spring Lockwasher ¼" Scr.*	
35	715-103		Spring Pin Spirol ⅛" Dia. .75" Lg.	
36	11379	458	Clutch Foot Pedal Rod Ass'y.	
37	10848	458	Foot Pedal Latch Ass'y.	
38	732-245		Brake Spring	
39	11530		Blade Brake Disc Ass'y.	
40	754-127		V-Belt 21/32 x 66.0" Lg.	
41	11914		30 Inch Deck Ass'y. Comp. (Includes deck, blades, pulley, belt, belt guards and wheels)	N
42	748-177		Sheave Half	
43	715-124		Spring Pin Spirol 5/32" Dia. x .62" Lg.	
44	748-181		Moveable Sheave Ass'y.	
45	741-139		Ball Bearing .50 I.D. x 1.38 O.D.	
46	750-144		Steel Tubing	
47	750-146		Spacer .520 I.D. x .692 O.D.	
48	11237		Wheel Bracket Ass'y. L.H. (Deck)	
49	9733		Belt Guard (Deck)	
50	732-153		Spring .750" O.D. x 8.65" Lg.	
51	11390		30 Inch Deck Ass'y.	
52	9733		Belt Guard (Deck)	
53	9164		Deck Reinforcement Plate	
54	736-119		Spring Lockwasher 5/16" Scr.*	
55	712-267		Hex Nut 5/16-18 Thd.*	
56	736-329		Spring Lockwasher ¼" Scr.*	
57	710-195		Hex Hd. Cap Scr. ¼-28 x .62" Lg.*	
58	712-123		Hex Nut 5/16-24 Thd.*	
59	736-119		Spring Lockwasher 5/16" Scr.*	
60	742-118		15 Inch Blade	
61	710-117		Hex Hd. Cap Scr. 5/16-24 x 1.00" Lg. Heat Treated	
62	10769		Blade Adapter Kit	
63	710-459		Hex Hd. Cap Scr. ⅜-24 x 1.50" Lg. Heat Treated	
64	736-217		Spring Lockwasher ⅜" Scr. Heavy Duty	
65	10769		Blade Adapter Kit	
66	726-106		Push Nut ¼" Rod	
67	711-571		Pivot Pin	
68	732-261		Torsion Spring	
69	11399		Adapter Plate Ass'y.	
70	11574		Chute Deflector Ass'y.	
71	710-289		Hex Hd. Cap Scr. ¼-20 x .50" Lg.*	
72	738-119		Shoulder Scr. .625" Dia. x 1.75 (Axle Bolt)	
73	712-116		Hex Inserted Locknut ⅜-24 Thd.	
74	10937		Wheel Pivot Bar	
75	734-225		6.0 Inch Wheel Ass'y. (Deck)	
76	736-105		Belleville Washer .400 I.D. x .88 O.D.	
77	10949		Spring Lever Ass'y. with Knob	
78	11236		Wheel Bracket Ass'y. R.H.	
79	736-119		Spring Lockwasher 5/16" Scr.*	
80	712-267		Hex Nut 5/16-18 Thd.*	
81	714-365		#6 Hi-Pro Key 5/32 x ⅝" Dia.	
82	711-255		Blade Spindle	

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

458—Arctic Blue Flake

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PARTS LIST FOR FIGURE 13 (CONTINUED)

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
83	9321		Blade Spindle Ass'y.	
84	741-919		Ball Bearing .787 I.D. x 1.85 O.D.	
85	8253		Housing—Bearing	
86	736-162		Flat Washer .641 I.D.	
87	710-322		Hex Sems Scr. 5/16-18 x 1.00" Lg.*	
88	710-152		Hex Hd. Cap Scr. ⅜-24 x 1.00" Lg. Heat Treated	
89	736-217		Spring Lockwasher ⅜" Scr. Heavy Duty	
90	736-235		Flat Washer .406 I.D. x 1.25 O.D.	
91	712-922		Hex Jam Nut ½-20" Thd.	
92	736-921		Spring Lockwasher ½" Scr.*	
93	712-242		Hex Jam Nut ⅝-11 Thd. (Deck)	
94	756-124		Pulley 4.75 O.D. (Deck)	
95	754-136		V-Belt 21/32 x 31" Lg. (For Transmission Pulley)	
96	756-174		Split Transmission Pulley .50 I.D.	
97	712-267		Hex Nut 5/16-18 Thd.*	
98	736-119		Spring Lockwasher 5/16" Scr.*	
99	754-135		V-Belt 21/32 x 25" Lg. (From Eng. Pulley to Var. Sp. Pulley)	
100	10424		Belt Guard Cup Ass'y. (For Eng. Pulley)	
101	756-142		Two Step Engine Pulley	
102	10426		Belt Keeper Assembly	
103	11382	—458	Clutch Bar Rod	
104	710-322		Hex Sems Scr. 5/16-18 x 1.00" Lg.*	
105	710-198		Hex Sems Scr. 5/16-18 x .75" Lg.*	
106	712-267		Hex Nut 5/16-18 Thd.*	
107	710-117		Hex Hd. Cap Scr. 5/16-24 x 1.00" Lg. Heat Treated	
108	9780	—458	Transmission Belt Guard Ass'y.	
109	747-109		Brake Rod .25" Dia. x 31.62" Lg.	
110	732-118		Extension Spring (Brake)	
111	10245	—458	Disc Brake Brkt. Ass'y.	
112	712-429		Hex Inserted Locknut 5/16-18 Thd.	
113	711-404		Shoulder Nut	
114	732-192		Spring .88 O.D. x 3.75 (Var. Drive)	
115	710-322		Hex Sems Scr. 5/16-18 x 1.00" Lg.*	
116	714-365		#6 Hi-Pro Key 5/32 x ⅝" Dia.	
117	710-442		Hex Hd. Cap Scr. 5/16-18 x 1.50" Lg. Heat Treated	
118	715-119		Spring Pin Spirol 5/32" Dia. x .75" Lg.	
119	714-129		#4 Hi-Pro Key 3/32 x ⅝" Dia. Hardened	
120	710-198		Hex Sems Scr. 5/16-18 x .75" Lg.*	
121	10247	—458	Transmission Plate	
122	717-223		Transmission Ass'y. Comp.	
123	10404		Engine Brace	
124	712-429		Hex Inserted Locknut 5/16-18 Thd.	
125	737-104		Sq. Hd. Pipe Plug ¼" (For Eng. Oil Drain Not Shown)	
126	737-114		Pipe Nipple ⅜-¼ x 3.0" Lg. (For Eng. Oil Drain Not Shown)	
127	11378		Brake Foot Pedal Rod	
128	715-131		Spring Pin Roll ¼" Dia. x 2.50" Lg.	

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

458—Arctic Blue Flake

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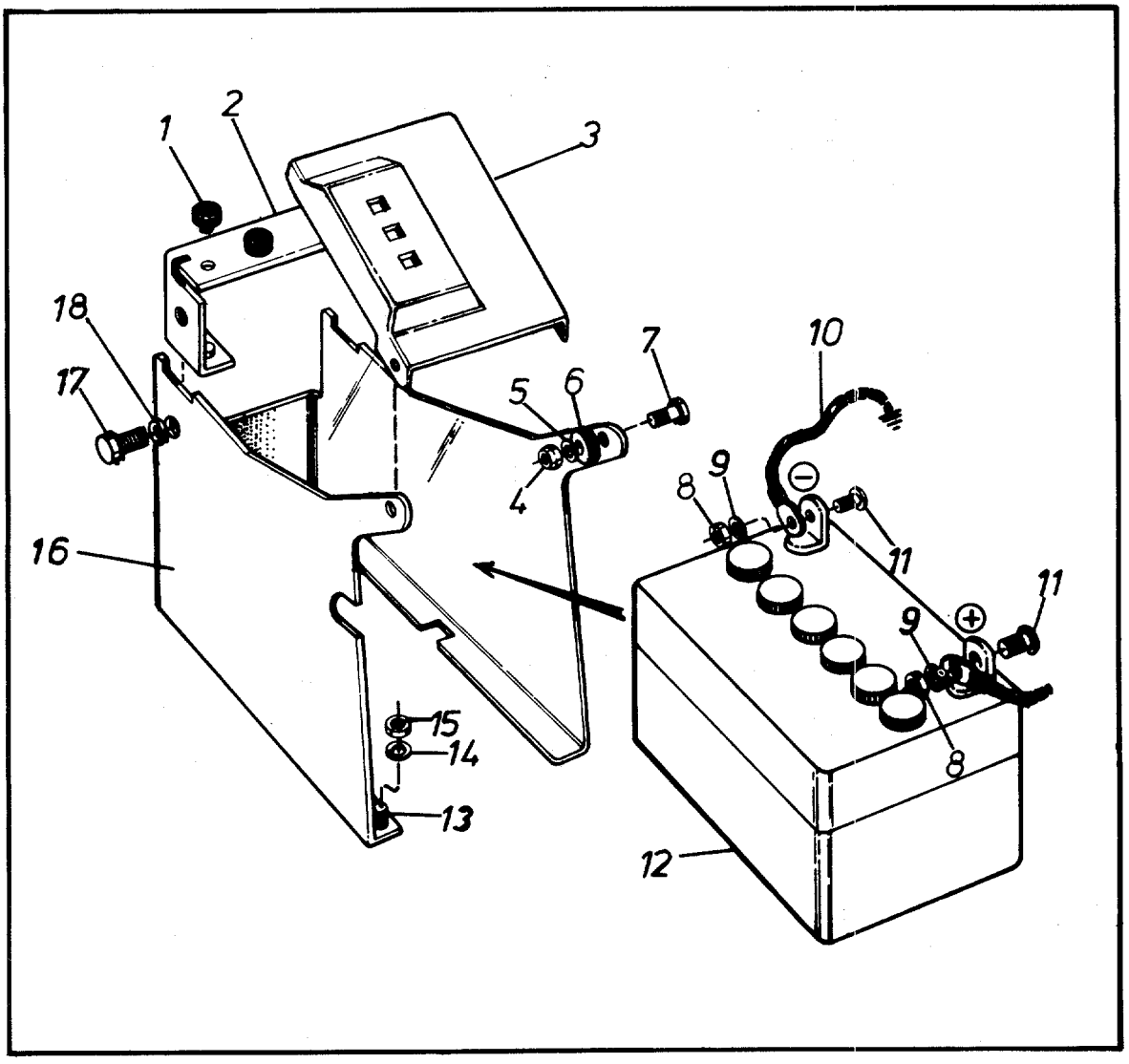

FIGURE 14. BATTERY BOX BREAKDOWN

PARTS LIST FOR FIGURE 14 BATTERY BOX BREAKDOWN

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	735-109		Stem Bumper	
2	10062—458		Battery Box Bracket Ass'y.	
3	10060—458		Seat Bracket	
4	712-267		Hex Nut 5/16-18 Thd.*	
5	736-159		Flat Washer .344 I.D. x .88 O.D.	
6	735-127		Rubber Washer .33 I.D. x .87 O.D.	
7	710-198		Hex Sems Scr. 5/16-18 x .75" Lg.*	
8	712-287		Hex Nut ¼-20 Thd.* (133-434 & 435)	
9	736-329		Spring Lockwasher ¼" Scr.* (133-434 & 435)	
10	725-150		Battery Ground Wire (133-434 & 435)	
11	710-252		Hex Hd. Cap Scr. ¼-20 x .75" Lg.* (133-434 & 435)	
12	725-117		Battery Dry 12 Volt with Acid Pack (133-434 & 435)	
13	710-322		Hex Sems Scr. 5/16-18 x 1.00" Lg.*	
14	736-119		Spring Lockwasher 5/16" Scr.*	
15	712-267		Hex Nut 5/16-18 Thd.*	
16	10059—458		Battery Box	
17	710-216		Hex Hd. Cap Scr. ⅜-16 x .75" Lg.*	
18	736-169		Spring Lockwasher ⅜" Scr.*	

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

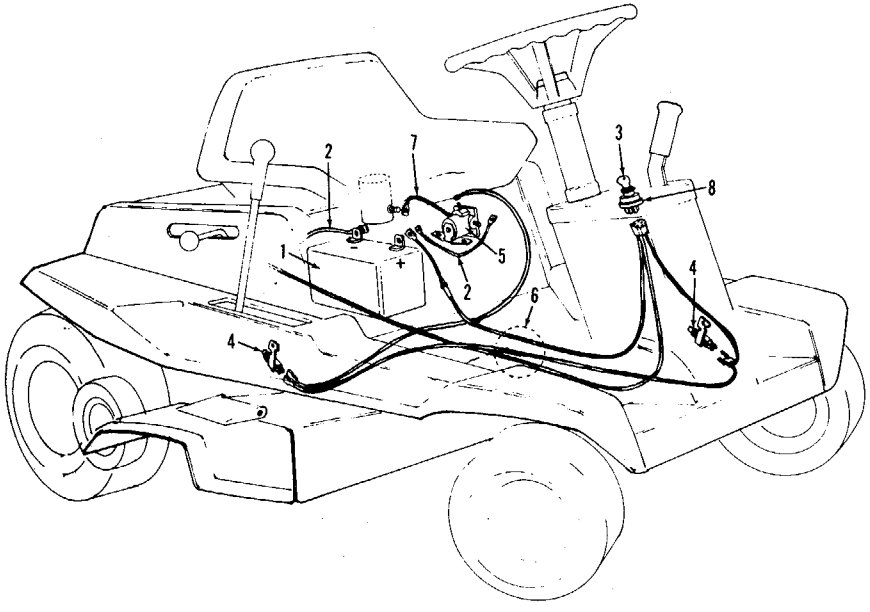

FIGURE 15. ELECTRICAL SYSTEM (ELECTRICAL START MODEL)

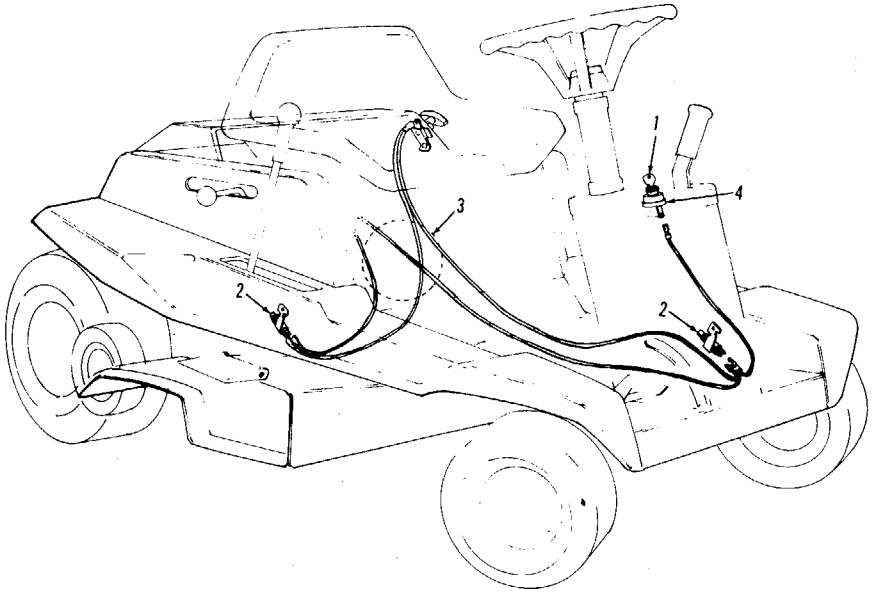

FIGURE 16. ELECTRICAL SYSTEM (RECOIL START MODEL)

PARTS LIST FOR ELECTRIC START MODEL

REF. NO.	PART NO.	DESCRIPTION
1	725-117	Battery
2	725-122	Wire
3	725-179	Key Only for Switch
4	725-268	Safety Switch (Black)
5	725-270	Solenoid—Cole #24022
6	725-280	Wire Harness
7	725-150	Wire
8	725-267	Switch
9	725-156	Battery Charger 1¼ Amps. (Not Shown)

PARTS LIST FOR RECOIL START MODEL

REF. NO.	PART NO.	DESCRIPTION
1	725-128	Key Only for Switch
2	725-269	Safety Switch (Red)
3	725-281	Wire Harness
4	725-266	Switch

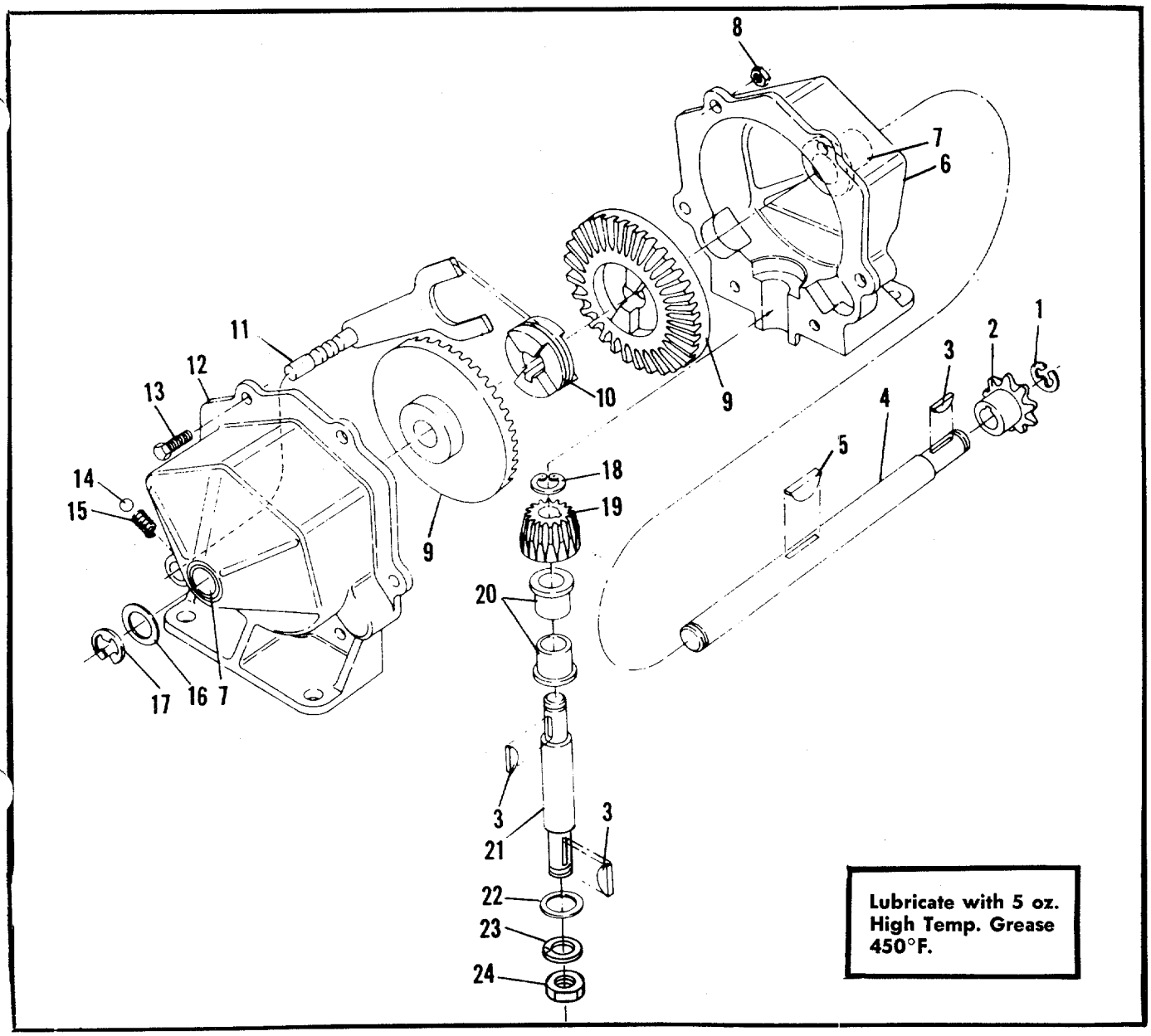

FIGURE 17. SINGLE SPEED TRANSMISSION PART NO. 717-223

PARTS LIST FOR FIGURE 17

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	716-104		Snap Ring	
2	748-852		Sprocket 8T #41	
3	714-129		Key Hi-Pro #4	
4	711-854		Shaft Output	
5	714-126		Key Hi-Pro #606 (Hardened)	
6	717-123		Housing Half	
7	748-855		Bearing	
8	712-117		Locknut ¼-28 Thd.*	
9	748-856		Bevel Gear	
10	748-857		Clutch Collar	
11	8583		Detent Shaft Assembly	
12	717-124		Housing Half with Detent Hole	

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
13	710-195		Hex Hd. Cap Scr. ¼-28 x .62*	
14	741-862		Detent Ball	
15	732-863		Detent Spring	
16	736-116		Washer	
17	716-106		E-ring	
18	716-865		Snap Ring #3100-50	
19	748-866		Bevel Pinion	
20	748-867		Bearing	
21	738-159		Pinion Shaft	
22	736-192		Washer	
23	736-921		Lockwasher ½"*	
24	712-922		Hex Jam Nut ½-20 Thd.*	
25	737-120		Grease High Temp. 450°F. (.5 oz.)	N

*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.

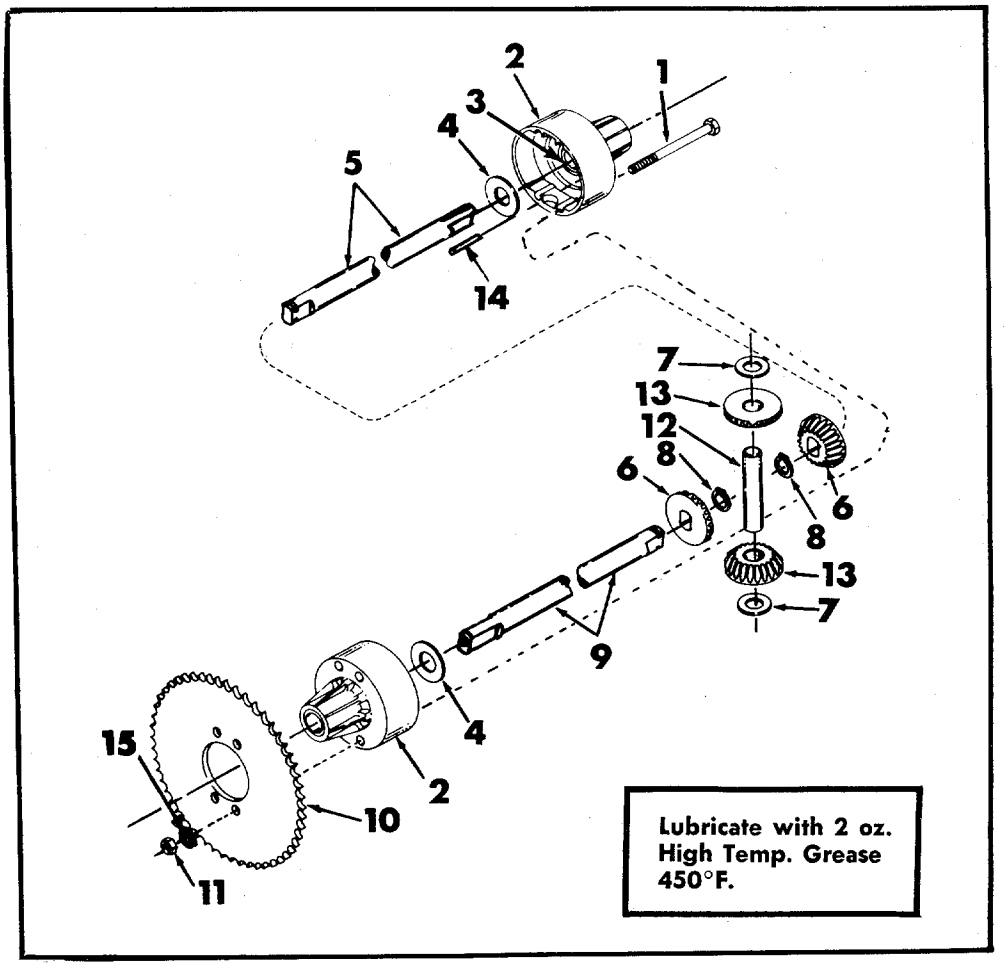

FIGURE 18. DIFFERENTIAL ASSEMBLY

PARTS LIST FOR FIGURE 18 DIFFERENTIAL
PART NUMBER 717-271

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	710-363		Hex Hd. Cap Scr. 5/16-24 x 4.00" Lg.*	
2	719-150		Differential Housing	
3	748-169		Sleeve Bearing	
4	736-188		Washer	
5	738-192		Shaft—Long	N
6	748-185		Motor Gear Double "D" Hole	
7	736-187		Flat Washer	
8	716-101		Snap Ring for .750 Shaft	
9	738-191		Shaft—Short	N
10	9054		Sprocket	
11	712-237		Hex Center Locknut 5/16-24 Thd.	
12	711-276		Drive Pin	
13	748-158		Miter Gear Round Hole	
14	715-123		Dowel Pin 3/16" Dia. x 5/8" Lg.	
15	736-119		Spring Lockwasher 5/16" Scr.*	
			Lubricate with grease—High Temp. 450° F (5 oz.) #737-120.	N

*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 the parts list.

BATTERY WARRANTY CERTIFICATE

The following general warranty policy applies to all batteries sold by IBMA members using this warranty. The nationwide warranty applies only to batteries bearing the IBMA seal of approval.

All new batteries sold by IBMA members carry a warranty against faulty material or workmanship for 90 days from date of purchase. A faulty battery is to be adjusted, repaired or replaced with a new battery by an IBMA member, jobber or dealer only, or the warranty becomes void. An IBMA type battery that is faulty within the 90 day period is to be repaired or replaced with a new battery F.O.B. any IBMA factory supplier or any IBMA authorized dealer, without charge.

Your battery carries a further warranty on a pro-rata adjustment basis covering the number of months determined by the class of service and type of battery. In determining the exchange cost of a new battery, charges will be made for months of service used and the warranty is valid to the original purchaser only.

IBMA approved factory suppliers, as well as all IBMA authorized dealers, are to honor this Warranty. If your IBMA approved battery carries the IBMA seal of approval, this Warranty is to be honored by dealers handling IBMA approved batteries everywhere. (Independent Battery Manufacturers Association, Inc.)

Failures in service that are caused by fire, collision, freezing, abuse, faulty electrical equipment or the use of a battery of a group size smaller or specifications lower than the original battery are not covered by this policy.

BATTERY MANUFACTURER MEMBERSHIP LIST

ALABAMA
Birmingham
Southern Bty.
Yocam Batteries
Mobile
Yocam Batteries
Montgomery
Ebco Battery
ALASKA
Anchorage
Alaska Husky Bty.
ARKANSAS
Hot Springs
Red Diamond Bty.
CALIFORNIA
Los Angeles
Estee Battery
Laher Bty. Prod.
Oakland
Laher Bty Prod.
Sacramento
Laher Bty. Prod.
San Francisco
Amp King Bty.
Laher Bty. Prod.
Pico Bty. Mfg.
Stockton
Stockton Battery
COLORADO
Denver
Moore Battery
D. C.
Washington
Express Bty. Div.
Leeth Brothers
FLORIDA
Fort Lauderdale
Florida Bty.
Hialeah
East Penn Mfg.
Jacksonville
Tropex Batteries
Yocam Batteries
Miami
Tropex Batteries
Yocam Batteries
Orlando
Yocam Batteries
Pensacola
Yocam Batteries
St. Petersburg
Electro Battery Co.
Tampa
Bilt-Rite Bty. Mfg.
Contract Bty. Mfg.
DeSoto Bty. & Elec.
Tropex Batteries
Yocam Batteries
GEORGIA
Albany
Ebco Battery
Atlanta
Ebco Battery
Southern Bty.
Yocam Batteries
Columbus
Ebco Battery
Contract Bty. Mfg.
Yocam Batteries
ILLINOIS
Belleville
Bell City Bty. Mfg.
Chicago
Illinois Bty. Mfg.
Universal Bty.
Volta Bty. Corp.
Peoria
Red Diamond Bty.
INDIANA
Muncie
Stout Storage Bty.
IOWA
Corydon
Voltmaster
Council Bluffs
Reliance Bty. Prod.
Des Moines
Voltmaster
KANSAS
Kansas City
American Batteries
Contract Bty. Mfg.
KENTUCKY
Whitesburg
Electro-Lite Bty.
LOUISIANA
New Orleans
Central Bty.
Reliable Bty.
Shreveport
Central Bty.
MARYLAND
Baltimore
East Penn Mfg.
MASSACHUSETTS
Watertown
Atlantic Bty.
MICHIGAN
Detroit
Batteries Mfg.
Flint
ABC Batteries
Holly
Detroit Battery
Madison Heights
C & W Lektra
Warren
G & M Battery
MINNESOTA
St. Paul
Standard Storage Bty.
MISSISSIPPI
Florence
Contract Bty. Mfg.
Jackson
Central Bty.
New Albany
Laher Bty. Prod.
MISSOURI
Joplin
Lead Products
Maryland Heights
Electro Bty. Mfg.
Sikeston
Electro Bty.
NEW JERSEY
Atlantic City
Landis Battery
NEW MEXICO
Alburquerque
Sandia Bty. Mfg.
NEW YORK
Buffalo
East Penn Mfg.
Lockport
Great Lakes Battery
NORTH CAROLINA
Charlotte
Yocam Batteries
Thomasville
East Penn Mfg.
OHIO
Akron
Crown Battery
Cincinnati
Moore Battery
Cleveland
Crown Battery
New Castle Bty.
Columbus
Crown Battery
Fremont
Crown Battery
OREGON
Beaverton
Western Bty., Inc.
Portland
Laher Bty. Prod.
PENNSYLVANIA
Altoona
East Penn Mfg.
Erie
New Castle Bty.
Lancaster
Lancaster Bty.
Lyon Station
East Penn Mfg.
New Castle
New Castle Bty.
Philadelphia
East Penn Mfg.
Pittsburgh
Simon Bty. & Res.
Geidel Bty. Div.
RHODE ISLAND
Providence
Pilof Mfg., Inc.
SOUTH CAROLINA
Columbia
Yocam Batteries
TENNESSEE
Chattanooga
Electro-Lite Bty.
Knoxville
Southern Bty.
Memphis
Central Battery
Laher Bty. Prod.
Southern Bty.
Nashville
Electro-Lite Bty.
Southern Bty.
TEXAS
Dallas
Continental Bty.
Reliable Battery
El Paso
El Paso Bty.
Houston
Texford Bty. Co.
Reliable Battery
San Antonio
Reliable Battery
UTAH
Salt Lake City
Laher Bty. Prod.
VIRGINIA
Arlington
Express Bty. Div.
Leeth Bros.
Lynchburg
Hydrate Battery
WASHINGTON
Seattle
Laher Bty. Prod.
Spokane
Laher Bty. Prod.
CANADA
Vancouver, B. C.
Industrial Bty. & Supply

WARRANTY

For one year from date of purchase, MTD Products Inc will replace for the original purchaser, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. All transportation charges on parts submitted for replacement under this warranty must be paid by the purchaser. This warranty does not include replacement of parts which become inoperative through misuse, excessive use, accident, neglect, improper maintenance or alterations by unauthorized persons. This warranty does not include the engine, motor, battery, battery charger or any component parts thereof. For service on these units refer to the applicable manufacturer's warranty.

The above warranty will apply only to the original owner and will be effective only if the warranty card has been properly processed. It will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. UNDER NO CIRCUMSTANCES WILL THE RETURN OF A COMPLETE UNIT BE ACCEPTED BY THE FACTORY UNLESS PRIOR WRITTEN PERMISSION HAS BEEN EXTENDED.

PARTS INFORMATION

DEFECTIVE OR MISSING PARTS must be reported to the factory immediately. Such claims must include your model number and date of purchase.

MOWER, TILLER, SNOW THROWER, TRACTOR, TRAIL BIKE AND MUD BUG PARTS

Mower, tiller, snow thrower, tractor, trail bike and mud bug parts 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.

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 — Power Products.

A 1 Engine & Mower Co.
327 East 9th Street
Salt Lake City, Utah 84102

American Electric Ignition Co.
124 N. W. 8th Street
Oklahoma City, Oklahoma 73102

Auto Electric & Carburetor Co.
2625 4th Avenue, S.
P. O. Box 1948
Birmingham, Alabama 35233

Automotive Equipment Service Co.
3117 Holmes Street
Kansas City, Missouri 64109

Bailey's Rebuild Inc.
1325 E. Madison Street
Seattle, Washington 98102

Brown Equipment Distributor Inc.
110 Beech Street
Corydon, Indiana 47112

Bullard Supply
2409 Commerce Street
Houston, Texas 77003

Catto & Putty, Inc.
P. O. Box 2408
510 Soledad Street
San Antonio, Texas 78205

Center Supply Company
6867 New Hampshire Avenue
Takoma Park, Maryland 20012

Charles B. Wright Co.
309 4th Avenue, South
Nashville, Tennessee 37201

W. B. Clements
400 Salem Avenue
Roanoke, Virginia 24016

Morton B. Collins Co.
300 Birnie Avenue
Springfield, Massachusetts 01107

Dixie Sales Company
P. O. Box 1408
327 Battleground Avenue
Greensboro, North Carolina 27402

East Point Cycle & Key Shop
1617 Whiteway
East Point, Georgia 30044

Gamble Distributors
West End Avenue
Carthage, New York 13619

Garden Equipment Co., Inc.
6600 Cherry Avenue
Long Beach, California 90805

Henzler, Inc.
2015 Lemay Ferry Road
St. Louis, Missouri 63125

Frank E. Ives & Son
1101 Lincoln Avenue
Prospect Park, Pennsylvania 19076

J. W. Jewett Co.
981 Folsom Street
San Francisco, California 94107

Kenton Supply
8216 North Denver Avenue
Portland, Oregon 97217

Kimber's Inc.
115 W. Geddes St.
Syracuse, New York 13204

The Lawnmower Shop
1340 El Camino Real
San Carlos, California 94070

Marr Brothers
423 E. Jefferson
Dallas, Texas 75203

Mathews Auto Electric Co.
420 East 2nd Street
Tulsa Oklahoma 74120

McClure Lawn & Garden Supply
1114 Lexington Avenue
Mansfield, Ohio 44907

Memphis Cycle & Supply Co.
421 Monroe Avenue
Memphis Tennessee 38103

Moz-All of Florida, Inc.
365 Greco Avenue
Coral Gables, Florida 33146

National Central, Div. of
Joe Sterling, Inc.
Drawer "D" 687 Seville Rd.
Wadsworth, Ohio 44281

Power Equipment Distributor
36463 So. Gratiot Avenue
Mt. Clemons, Michigan 48043

Parts & Sales Inc.
2101 Industrial Pkwy.
Elkhart, Indiana 46514

Parts & Sales Inc.
335 West St. Charles Road
Villa Park, Illinois 60181

Power Lawn & Garden Equip. Co.
2551-2571 J. F. Kennedy Road
Dubuque, Iowa 52001

Raub Supply Company
James & Mulberry Sts.
Lancaster, Pennsylvania 17604

Radco Distributors
2403 Market Street
P. O. Box 3216
Jacksonville, Florida 32206

Richmond Battery & Ignition
P. O. Box 25369 — 957 Myers St.
Richmond, Virginia 23260

Smith Hardware Company
515 N. George Street
Goldsboro, North Carolina 27530

South Denver Lawn Equip. Co.
527 West Evans
Denver, Colorado 80223

Suhren Engine
8330 Earhart Blvd.
New Orleans, Louisiana 70118

Sutton's Lawn Mower Shop
Route 4, Box 343
North Little Rock, Arkansas 72117

Warner Equipment
7520 Lyndale Avenue, So.
Minneapolis, Minnesota 55423

WARRANTY PARTS AND SERVICE POLICY

The purpose of warranty is to protect the customer from defects in material and workmanship, defects which are not detected at the time of manufacture.

Our aim is to build into our product quality and reliability. Considerable emphasis is placed on quality control in order to assure our customer of satisfactory product performance. To achieve this goal, it is necessary to gain the cooperation of all concerned, MTD, our sales force and our customers.

MTD's responsibility is to build a quality product and to back up that product. MTD must build this quality product at a competitive price. This cannot be achieved without production in quantity. Quantity production is mass production. In mass production it is always possible for undetected defects to be present when the product reaches the customer. Our warranty is extended to assure the customer that any such defects will be corrected.

Use and maintenance are the responsibility of the customer. MTD cannot assume responsibility for conditions over which it has no control. MTD's responsibility does not cover misuse, excessive use, accident neglect, improper maintenance or alterations by unauthorized persons. Satisfactory product performance *can only result* when a manufacturer provides and backs up a quality product and the customer follows through with proper use and proper maintenance of that product. When both the manufacturer and the customer recognizes and assumes his responsibility, satisfactory product performance and customer satisfaction are assured.