

IMPORTANT

SAFE OPERATION PRACTICES FOR RIDING VEHICLES

1. Know the controls and how to stop quickly— READ THE OWNER'S MANUAL.

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- 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.
- 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.
- Take all possible precautions when leaving vehicle unattended such as disengaging powertake-off, lowering attachments, shifting into neutral, setting parking brake, stopping engine and removing key.
- Do not stop or start suddenly when going uphill or downhill. Mow up and down 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.

133-465

Model Nos.

133-460 Recoil

Electric

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

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

FORM NO. 770-4145

ASSEMBLY

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



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.

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

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 and hex nut. See figure 2.
- Step 4. Press the cap on the steering wheel by hand. See figure 2.



FIGURE 2. STEERING WHEEL ASSEMBLY

- Step 5. Your molded seat comes with the mounting bolt molded in the seat.
 - A. Select one of three hole locations on seat spring.
 - B. Place seat on spring and secure with lockwasher (A) and hex nut (B). See figures 1 and 3.



FIGURE 3. SEAT ASSEMBLY

Step 6.



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.

- 1. Place battery to be filled on bench or workbench. Never activate battery in mower. Remove vent plugs from all cells.
- Fill each cell carefully using battery grade 1.250-1.265 specific graviy. Sulfuric acid to %" above the top of the separators or to the split ring.
- 3. Allow battery to set for 20 minutes. Battery can then be installed, however, to have maximum capacity the battery should be placed on a charger after the 20 minutes setting period. Battery can be charged at maximum of 35 amperes until the specific gravity reading is 1.265-1.275.
- 4. 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.
- 5. 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. Coat the terminals with a thin coat of grease.
- 6. If the battery is not going to be used in the winter, remove the battery and store in a cool, dry place. Do not store directly on a concrete floor as this will drain the battery. Recharge whenever the specific gravity is less than 1.225.
- 7. Install the battery.
 - a. Open the hood of the mower.
 - b. Place the battery with the terminals to the FRONT in the battery case. See figure 4.
 - c. Hook both hold-down rods under the battery case and place the hold down over the battery caps and secure with wing nuts C.

CAUTION

Be sure the flared edge of the hold down is facing up to avoid damage to the battery.

d. Attach the free end of the positive cable and the small wire from the ammeter, to the positive battery terminal with bolt D, washer E and nut F. The battery terminal is marked +.

e. Attach the free end of the negative cable to the negative terminal with bolt D, washer E and nut F. Battery terminal is marked –.



FIGURE 4. INSTALLING THE BATTERY

-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 34 to full throttle when operating the cutting deck or snow thrower (optional). See figure 5.



FIGURE 5. CONTROLS

b. Gear Shift Lever. The gear shift lever is used to shift into FORWARD, NEUTRAL or REVERSE. See figures 5 and 6.

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 7.

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 7

e. **Clutch Pedal.** The clutch pedal is used to disengage the drive mechanism. Depressing the clutch pedal at any time will slow you down or, if depressed all the way, will stop the mower. See figure 8.

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 8. The clutch lockout must be in this position before the engine will start.

g. Stop Lever. 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. The farther forward the stop lever is set, the faster your ground speed. See figure 8.

h. Ammeter. (Electric Start Model Only.) 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 5.

i. Light Switch. (Electric Start Only.) Pull the light switch out to turn on the lights. The lights will only operate when the engine is running. See figure 5.





FIGURE 7. RIGHT HAND CONTROLS



FIGURE 8. LEFT HAND CONTROLS

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

Recoil Model. See figure 9. Turn the key to the ON position when starting the engine. To stop the engine turn the key to the left to the OFF position and remove the key to prevent accidental starting.

Electric Start. See figure 5. 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.

FIGURE 6. SHIFT PATTERN



FIGURE 9. RECOIL STARTER

k. Recoil Starter. The recoil starter is located on the right side of the dashboard. The recoil starter can either be pulled while seated on the rider or pulled while standing behind the rider. The ignition key must be on before the engine will start. After the engine starts, the recoil starter handle must be returned and locked into the dashboard before the blades or clutch are engaged. The engine will stop if you do not follow these instructions. See figure 9.

I. 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 7.

m. 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 $1\frac{1}{2}$ 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.
- Step 2. Place the clutch lockout in the START position. See figure 8.

Step 3. Place the lift and disengagement lever in the DISENGAGED position. See figure 7.



FIGURE 12. FUEL SHUT-OFF VALVE

Step 4. Set the throttle control in the CHOKE position. See figure 5.

Step 5. Recoil Starter.

- a. Turn the ignition key to the ON position. See figure 13.
- b. Grasp the recoil starter, unlock it by twisting it ¼ turn and pull it out sharply and hold it in the out position.
- c. Slowly release the recoil starter and lock it into the dashboard as shown in figure 13.

Electric Start

See figure 14. Turn the ignition key to the START position. When the engine is running, let the key return to the ON position.



FIGURE 13. RECOIL STARTER



FIGURE 14. STARTER SWITCH

To stop either model, turn the key to the left to the OFF position and remove the key to prevent accidental starting.

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.

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 in step 5 under operating instructions.
- Step 3. Set the stop in the slow position. See figure 8.

NOTE

As you become familiar with the operation of the mower you can move the stop lever to a faster position.

- Step 4. While holding down the clutch pedal, move the clutch lockout lever forward.
- Step 5. Put the gear shift lever into either FORWARD or REVERSE.

NOTE

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

- Step 6. 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 7. 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.



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 7) 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.

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 15.) 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 15.



FIGURE 15. 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 16.



FIGURE 16. WHEEL AND SPINDLE BEARINGS

Lubricate the four rear axle bearings with SAE 30 oil once a season. See figure 17.

The chain can be lubricated by wiping it with an oily rag.

The differential and transmission are sealed at the factory and require no further lubrication.



FIGURE 17. REAR AXLE ASSEMBLY

CHAIN ADJUSTMENT

To tighten the chain, loosen two locknuts on each side of rear axle as shown in figure 17.

Tighten the adjusting nuts (figure 18) equally on both sides. Tighten until the chain has ½ inch slack between the sprockets.

The adjusting nuts can be tightened individually to align the axle.

Tighten the 4 locknuts after the adjustment is made.



FIGURE 18. CHAIN ADJUSTMENT

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 19.

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 19. 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.

TIRES

The tires should be inflated to 7 to 10 psi. A punctured tire may be repaired in the same manner as an automobile tire.

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 20). 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 20. SPARK PLUG CLEARANCE

REPLACING BLADE



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

Removing and Sharpening Blades. Remove the center bolt and lockwasher. See figure 21. Pull the blade and blade adapter from the blade spindle.

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



FIGURE 21. BLADE REMOVAL

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 tractor. The front wheels should toe-in 1/8 inch.

To adjust the toe-in follow these steps.

Step 1. Loosen the hex jam nut on one side. See figure 22.

- Step 2. Remove the elastic locknut and drop the tie rod end out of the wheel bracket.
- Step 3. Adjust the tie rod end in or out to obtain the proper toe-in adjustment as shown in figure 23.

NOTE

Unscrew the tie rod end to toe the wheels in.





FIGURE 22. TIE ROD ADJUSTMENT



FIGURE 23. TOE-IN DIAGRAM



FIGURE 24. 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 5.) 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 25.



FIGURE 25. CHOKE ADJUSTMENT

PREPARING FOR BELT REMOVAL



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

Step 1. Remove the battery.



- Disconnect the negative terminal first and connect last when installing the battery.
- Step 2. To prevent gasoline from leaking from the engine, remove the gasoline cap, place a piece of thin plastic over the neck of the gasoline tank and screw on the cap.
- Step 3. Close the fuel shut-off valve as shown in figure 12.
- Step 4. Set the gear shift lever in F or R (See figure 6.) Place your hands under the front axle and lift the unit up until it tips back and rests on the seat.

MOWING UNIT BELT REPLACEMENT

- Step 1. Place the lift lever in the disengaged position. See figure 7.
- Step 2. Remove the belt keeper and large bolt on the engine pulley. See figure 26.



FIGURE 26. BELT KEEPER

Step 3. Unhook the belt from the engine pulley. See figure 27.



FIGURE 27. REMOVING MOWER BELT

- Step 4. Place the lift lever in the engaged position. See figure 7.
- Step 5. Unhook the tension springs on both sides of the deck. See figure 28.



FIGURE 28. REMOVING TENSION SPRINGS

- Step 6. Remove the front four deck links from the cutting deck. See figure 29.
- Step 7. Remove the belt guards from both deck pulleys. See figure 29.
- Step 8. Remove and replace the belt and reassemble.

TRANSMISSION BELTS REMOVAL

- Step 1. Place the lift lever in the disengaged position. See figure 7.
- Step 2. Remove the belt keeper and large bolt on the engine pulley. See figure 26.



FIGURE 29. DECK LINKS

- Step 3. Unhook the belt from the engine pulley. See figure 27.
- Step 4. Place the lift lever in the engaged position. See figure 7.
- Step 5. Unhook the tension springs on both sides of the deck. See figure 28.
- Step 6. Remove the front four deck links from the cutting deck. See figure 29.
- Step 7. Tip the deck down as shown in figure 29,

NOTE

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



FIGURE 30. BELT GUARD REMOVAL

- Step 8. Remove the engine belt guard by removing the two front engine mounting bolts. See figure 31.
- Step 9. Place the clutch lockout in the START position. See figure 8.
- Step 10. While pushing the variable speed pulley towards the center of the rider, remove the lower belt from the transmission pulley. See figure 31.
- Step 11. Slide the movable center section of the variable speed pulley away from the rider and remove the upper belt from the variable speed pulley. See figure 32.



FIGURE 31. LOWER BELT REMOVAL



FIGURE 32. REMOVING FROM VARIABLE SPEED

Step 12. Unhook the upper belt from the engine pulley and remove. See figure 33.

Step 13. Reassemble in reverse order with new belts.



FIGURE 33. REMOVING THE UPPER BELT

BRAKE ADJUSTMENT

To adjust the brake on your rider follow these steps:

- Step 1. Depress the brake pedal and lift the brake lock so the pedal stays in the depressed position. See figure 7.
- Step 2. Place the clutch lockout in the START position. See figure 8.
- Step 3. Try and push the rider. If the rider can be moved tighten the brake adjustment nut as shown in figure 34.

NOTE

The adjusting nut can be reached from the rear of the mower. The transmission cover was removed for the photograph only.

Step 4. Tighten the adjustment nut one turn and test the mower. Repeat if necessary.

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FIGURE 34. BRAKE ADJUSTMENT

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 cil 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 figures 16 and 17 then wipe the entire machine with an oiled rag in order to protect the surfaces.



FIGURE 35. RIGHT HAND VIEW

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PARTS LIST FOR FIGURE 35 RIGHT HAND VIEW

REF. NO.	PARI COLOK NO. CODE	DESCRIPTION	NEW PART	REF.	PART COLOR NO. CODE	DESCRIPTION	PART
-	11263			28	9735 •	Connecting Rod 3/16 × 1.00	-
2	710-351	Truss Hd. Mach. B-Tapp. Scr. #10 x .50" La. (133-460)		29	10555	x 12.3 Lg. Pivot Bar Assembly	
ო	710-425	Truss Hd. Mach. Scr. #10- 24 × 62" 14 * (133-460)		9 9 9 9	10496 — 710-195	463 Front Pivot Bracket Hex Hd. Cap Scr. ¼-28 x .62" Lg.	
	736-338	Fiber Washer (133-460)		32	~	Push-on Flange Palnut	
5	712-121	Hex Nut #10-24 Thd.*		33		Adapter Plate Ass'y.	
۲	11062	(133-460) Switch Brackat Ass'v (133-460)		34	732-261	Torsion Spring Chute Cover Ass'v Complete	z
2	712-147	Speed Nut #10-24 U-Type		38	1	Chute Cover Ass'y.	
œ	725-266	(133-460) Magneto Ignition Switch		38			
)		(Ì 33-46Ŏ)		39	-	Pivot Link Ass'y.	
<u>م ہ</u>	732-257	Switch Spring (133-460)		6 :		Hex Nut 5/ 10-18 Ind."	
2 =	793-946	Hood Lock Ass'v	Z	4	712-264	Flat Washer .344 I.U. X .02 O.U. Hex Niit 5/16-18 Thd*	
12	712-287	Hex Nut 1/4-20 Thd.*	-	43		Spring Lockwasher 5/16" Scr. *	
33	710-289	Hex Hd. Cap Scr. 1⁄4-20 x .50"		44		Hex Hd. Sems Scr. 5/16-18	
,	011 762	Lg.* Sering Inchruscher 5/16"				x.75" Lg.*	
<u>†</u>	1 1 - 00 /	Ser *		40	101-712	bear spring 4.30 might Internal Cotter Pin 16" Dia	
15	712-267	Hex Nut 5/16-18 Thd.*		47		Deck Link Ass'y.	
16	[See Breakdown		48	11056	Parking Brake—Lever Ass'y.—	-
17	736-192	Flat Washer .531 I.D. x .93 O.D				R.H.	
18	10349	Deck Link Ass'y		49	72	Push Cap ¼" Dia.—Black	
6[10346	Lockout Link Ass'y.		50		Grip	
20	712-923	Hex Center Locknut %-18 Thd.		51		Lift Handle R.H.	
71	/34-494	Front Wheel Ass'yComp.	z	52	710-201	Hex Hd. Cap Scr. ¾-16 x .62"	
	734-495	Front Wheel Tire Only	2	53	736-219	Belleville Washer .400 I.D. ×	
22	734-520	Front Wheel Rim Ass'y, Only	z		-	1.13 O.D.	
23	710-312	Hex Hd. Cap Scr. ‰-18 x			748-201	Spacer .635 I.D. × .88 O.D. × .57	7 D. × .029
24	711-169	Collar %" LD		56		Handle Pivot Bracket	
25	748-20207	Front Wheel 10EARING		57		Lift Handle Bracket Assembly	
26	710-494	5q. Hd. Set Scr. 5/ 16-18 x .38		60 90 90	11031	Litt Handle L.H.	
27	711-571	Pivot Pin				El (Dallace	

(463—Top Flite Red) When ordering parts if color or finish is important, use appropriate code shown at left. (e.g.--Top Flite Red--11840 (463).)

*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.

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When ordering parts if color or finish is important, use appropriate code shown at left. (e.g.—Top Flite Red—11840 (463).) FL. WASHER 736-134 (463—Top Flite Red)

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10491-463 Grille-Front (133-460) 10793-463 Grille-Front (133-465) 10765 - 463 Eront UC3465)
2-375
736-105 Assy. (133-465) 736-105 Belleville Washer 710-253 Hex Hd. Cap Scr. ¾-16 x 1.00"
711-548 Steering Rod
712-158 Hex Center Locknut 5/16-18 Thd. Thd. 748-228 Hex Flange Bearing .505 I.D.
11047 Steering R 710-412 Hex Hd, C
11048 Steering Segment 11074 Steering Housing Ass'y. 715-120 Spring Pin Spirol 3/16" Dia. x
736-329 Spring Los washer 14" Scr.* 712-138 Hex Nut 14-28 Thd.* 710-412 Hex Hd. Cap Scr. 14-28 x .7'
710-351 Truss Hd Mach. B-Tapp Scr. #10 × 50" La.
746-160 Throttle Control—Complete 712-147 Speed Nut #10-24 U-Type 11861 Dash Panel Ass'y. (133-460) 11862 Dash Panel and Battery Box Ass'y. (133-465) Ass'y. (133-465)
722-111 Knob Ónlý—Throttl 11093—463 Upper Frame 748-203 12 Teeth Spur Gear

	NEW PART	z		z		z	z																	
RE 36 LEFT HAND VIEW	DESCRIPTION	Steering Wheel Cap Hex Center Locknut 5/16-18 Thd.	Belleville Washer .400 I.D. x 1.13 O.D	12.0 inch Steering Wheel Push Nut %" Dia.	Wave Washer .660 I.D. x .88	Steering Shaft Steering Shaft Sear Ass'y. Complete—10.0"		Spring Lockwasher ½" Scr.* Hex Nut ½-13 Thd.* Actor Fordar	Rear renaer Rear Wheel Ass'y. Complete 14.0 v 4.50	Rear Wheel Tire Only 16.0 x	Air Valve—Tubeless	кеаг wneel кim Ass y. Rear Wheel Hub Ass'y.	Hex Hd. Cap Scr. ¼-20 x .62"	Spring Lockwasher 1/1" Scr.* Handla Ston Bracket Assembly	Knob for Handle Stop Bracket	Hex Nut 5/16-18 Thd.* Spring Lockwasher 5/16" Scr *	Foot Pad 15.75" Lg. x 4.0"	vide Hex Sems Scr. 5/16-18 x .62"	Front Axle Ass'y. L.H.	Ball Joint Ass'y.	Sq. Hd. Set Scr. 5/16-18 x	.38 Cup Tie Rod %-24 Threaded Ends	nge Bearing .630 I.D	ball Joint Ass'y.
R FIGUR	COLOR								20 1										-463					
PARTS LIST FOR FIGURE 36	PART NO.	731-220 712-158	736-219	731-219 712-222	736-174	738-200 757-241		736-921 712-206	734-527	734-275	734-255	9202 10473	710-258	736-329	11249	712-267 736-119	723-241	710-259	-8606	723-156 711-160	710-494	711-256	748-184	/23-150
PARTS	REF. NO.	- 0	ო		\$	► ∞		<u>م</u>	2		ç	24	15	91 2	2	<u></u>		2Î	22	23	25		123	

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

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FIGURE 37. DECK AND FRAME VIEW

PARTS LIST FOR FIGURE 37 DECK AND FRAME VIEW

R	REF. D.	PART COLOR NQ. CODE	DESCRIPTION	NEW PART	REF. NO.		COLOR CODE	DESCRIPTION	NEW PART
	1	722-115	Pali Knah Divel		46	1185	3	Transmission Shift Lever Ass'y.	N
	2	736-329	Ball Knob—Black		47	736-16		Spring Lockwasher %" Scr.*	
	3		Spring Lockwasher ¼" Scr.*		48	712-79		Hex Nut %-16 Thd.*	
		712-138	Hex Nut 1/4-28 Thd.*		40	712-42		Hex Inserted Locknut 5/16-	
	4	714-115	Cotter Pin 1/8" Dia. x 1.00" Lg.*		49	//2=42	. 7	18 Thd.	
	5	10396	Transmission Support Bracket		FO	710.00	7	Hex Nut ¼-20 Thd.*	
			Ass'y.		50	712-28			
1	6	11095	Engine Brace		51	736-32		Spring Lockwasher 1/4" Scr.*	
	7	710-259	Hex Sems Scr. 5/16-18 x		52	761-14		Blade Brake Ass'y88 High	
	1		.62" Lg.*		53	710-13		Carriage Bolt 1/4-20 x .62" Lg.*	
	8	736-119	Spring Lockwasher-5/16" Scr.*	•	54	712-26		Hex Nut 5/16-18 Thd.*	
	9	712-267	Hex Nut 5/16-18 Thd.*		55	736-11		Spring Lockwasher 5/16" Scr.*	
	10		Engine		56	747-10)6	Brake Rod .25" Dia. x 23.50"	
	11	710-442	Hex Hd. Cap Scr. 5/16-18 x					Lg.	
			1.50" Lg.*		57	1039		Disc Erake Bracket Ass'y.	
	12	714-507	Cotter Pin 3/32 Dia. x .75"		58	710-41	2	Hex Hd. Cap Scr. ¼-28 x .75"	
	12	/14 30/	Lg.*					Lg.*	
1	13	11094	Clutch Connecting Bracket		59	717-22	22	Single Speed Transmission	
								Ăss'y.	
	14	10614	Pedal Pad Vinyl		60	713-16	50	#420 Ćhain ½" Pitch x 87	
	15	11037	Clutch Pedal Ass'y.	1				Links	
	16	712-0267	Hex Nut 5/16 × 18 THO	al I		713-15	54	#420 Master Link ½" Pitch	
	17	736-0119	Spring Lockwasher 546 Scr.*			/			
	18	738-140	Shoulder Scr437 Dia. x .180		61	712-26	57	Hex Nut 5/16-18 Thd.*	
	19	10480	Engine Belt Guard Assembly		62	736-11		Spring Lockwasher 5/16"	
	20		Frame Assembly—Lower		02	/ 30-11	17	Scr.*	
	21	736 - 105	Belleville Washer ¾" Scr.		10	710.10	.		
	22	738-129	Shoulder Scr498" Dia. x		63	710-19	7 8	Hex Sems Scr. 5/16-18 x .75"	
			→ 2.00" Lg.*					Lg.*	
-	23	710-259	Hex Sems Scr. 5/16-18 x .62"		64	732-15		Spring .38 O.D. x 3.25	
1	1		Lg.*		65	1036		Rear Axle Bracket Ass'y.	
	∠4	10426	Belt Keeper Assembly		66	1036		Axle Bolt Plate Ass'y.	
	25	712-267	Hex Nut 5/16-18 Thd.*		67	712-42	29	Hex Inserted Locknut 5/16-	
	26	736-119	Spring Lockwasher 5/16" Scr.*					18 Thd.	
	27	11039	Pedal "U"-Bracket Ass'y.		68	748-15	51	Flange Bearing with Flats	
	28	738-213	Shoulder Scr498" Dia. x					.753 I. D.	
	20	730-213			69	710-43	37	Chain Adjusting Link 5/16-18	
	00		1.450" Lg.					x 4.38" Lg.	
	29	710-198	Hex Sems Scr. 5/16-18 x .75"		70	1036	54	Rear Axle Plate	
			Lg.*		71	18-2770		Cam Lever	
1	30	726-100	Push Nut 3%" Rod		72	712-37		Hex Center Locknut %-16 Thd.	
	31	732-245	Brake Spring		73	12-104		Casting, Carrier Side	
	32	11036	Brake Pedal Bracket Ass'y.		74	12-104		Casting, Cam Side	
	33	11065	Variable Speed—Belt		75	761-1		Spacer for Disc Brake % O.D.	
1			Guard Ass'y.		/ J	/01-1	00	x % Lq.	
E	34	710-376	Hex Scr. 5/16-18 x 1.00" Lg.*		71	710-3	14		
	35	732-208	Variable Drive Spring	1	76	110-3	10	Hex Hd. Cap Scr. %-16 x 3.50"	
	36	11064	Clutch Rod—Variable Speed				~ 7	Lg.	
1	37	712-429	Hex Inserted Locknut 5/16-18		77	761-13		Disc Brake Assembly—Comp.	
			Thd.			05-103		Push Pin	
	38	11072	Variable Speed—Link	2		06-102		Compression Spring	
	39	711-404	Shoulder Nut	1		02-101		Locknut	
	40	11069	Variable Speed Plate Ass'y.		81	03-103		Thrust Washer 5/16" I.D.	
	40	712-429	Hex Inserted Locknut 5/16-		82	104		Spring Bracket	
	41	112-429			83	736-32		Spring Lockwasher ¼" Scr.*	
	40	704 044	18 Thd.		84			Hex Nut 1/4-20 Thd.*	
	42	736-264	Flat Washer .344 I.D. x .62		85	710-2		Hex Hd. Cap Scr. ¼-20 x .62"	
			O.D.					Lg.*	
	43	719-922	Hex Jam Nut ½-20 Thd.		86	712-42	29	Hex Inserted Locknut 5/16-	
	44	11067	Variable Speed—Eccenter	1	50	1		18 Thd.	
			Ass'y.		87	1043	38	Variable Speed Pulley Ass'y.	
	∿5	11056	Parking Brake—Lever Ass'y.		88	748-17		Sheave Half	
		1	R.H.	1	00	/ 40-1/	, ,		

PARTS LIST (CONTINUED)

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEV PA
89	750-14	6	Spacer .520 I.D. x .692 O.D.		124	1076	9	Blade Adapter Kit	
90	741-13	19	Ball Bearing .50 I.D. x 1.38		125	1163		Chute Cover Ass'y. Comp.	
			O.D.				0	(Includes Ref. No's. 127,	
91	750-14	4	Steel Tubing						N
92	715-12		Spring Pin—Spirol 5/32"		126	710-28	0	128, 129, 130 & 131)	IN IN
12	/10/12	-	Dia x .62" Lg.*		120	1/10-28	99	Hex Hd. Cap Scr. 1/4-20 x .50"	
93	748-18	1	Moughla Sharwa Dant Assiv		107	711 63		Lg.*	
94			Movable Sheave Part Ass'y.		127	711-57		Pivot Pin	
74	736-24	4	Flat Washer .141 I.D. x .28	NI	128	1139		Adapter Plate Assembly	
			O.D.	N	129	710-19	25	Hex Hd. Cap Scr. 1/4-28 x .62"	
95	748-17		Sheave Half					Lg.*	
96	756-17	4	Transmission Split Pulley .50"		130	1157	4	Chute Cover Ass'y.	
			I.D.		131	726-10)6	Push Nut 1/4" Rod	
97	754-13	6	"V"-Belt 21/32 x 31" Lg.		132	736-32		Spring Lockwasher ¼" Scr.*	
98	711-49		Spacer .510 I.D. x .760 O.D.		133	712-28		Hex Nut ¼-20 Thd.*	
	/ · · · / /	'	x .390		134	1007		Balt Guard BU (Daala)	
99	754-13				135	714-36		Belt Guard—R.H. (Deck)	
			"V"-Belt 21/32 x 50" Lg.					#6 Hi-Pro Key 5/32 x %" Dia.	
00	756-12		Pulley 4.75 O.D. (Deck)		136	825		Bearing Housing	
01	754-15		"V"-Belt 21/32 x 67" Lg.		137	741-91	9	Ball Bearing .787 I.D. x 1.85	
02	714-36		#6 Hi-Pro Key 5/32 x ⅔" Dia.					O.D.	
03	756-15		Two Step Engine Pulley		138	825		Bearing Housing	
04	736-23	5	Flat Washer .406 I.D. x 1.25		139	932		Blade Spindle Ass'y Complete	
			O.D.		140	710-51	5	Hex Hd. Cap Scr. 1/2-20 x	
05	736-16	9	Spring Lockwasher %" Scr.*					3.50" Lg.*	
06	710-15		Hex Hd. Cap Scr. %-24 x		141	712-24	2	Hex Jam Nut %-11 Thd.	
		-	1.00*		142	736-92		Spring Lookuscher 1/4 C	
07	1123	7.			143	932		Spring Lockwasher ½" Scr.*	
<i>~</i>	1125	/	Wheel Bracket Ass'y. L.H.		143	712-92		Blade Brake Disc	
~	700.10	.,	(Deck)			712-92	2 7	Hex Jam Nut ½-20 Thd.	
08	732-19	'1	Spring .75 O.D. x 11.0" Lg.		145	712-28	\$7	Hex Nut ¼-20 Thd.*	
			(Deck)		146	736-32		Spring Lockwasher ¼" Scr.*	
09	1007		Belt Guard-L.H. (Deck)		147	711-25	5	Blade Spindle	
10	916	4	Deck Reinforcement Plate		148			Lo-Tone Muffler Ass'y.	
11	1109	6	34 inch Deck Assembly					(Order from Briggs &	
12	1191	7	34 inch Deck Ass'y.—Comp.	N				Stratton)	
13	710-32		Hex Sems Scr. 5/16-18 x 1.00"		149	712-28	37	Hex Nut 1/4-20 Thd.*	
		_	Lg.*		150	736-32		Spring Lockwasher 1/// Sau *	
14	710-28	0			151	1123		Spring Lockwasher ¼" Scr.*	
	/10-20	''	Hex Hd. Cap Scr. ¼-20 x .50"			1120	0	Wheel Bracket Ass'y.—R.H.	
15	1105	7	Lg.*		152	1000	7	(Deck)	
	1185		Muffler Bracket	N		1093		Wheel Pivot Bar	
16	751-12		Muffler Extension Assembly	N	153	736-10		Belleville Washer	
17	710-28	9	Hex Hd. Cap Scr. ¼-20 x .50"		154	734-29		Wheel Ass'y. 5.0" Dia. (Deck)	
			Lg.*		155	738-11	9	Shoulder Scr625" Dia. x	
18	712-12	3	Hex Nut 5/16-24 Thd.*					1.75" Lg.	
19	736-11	9	Spring Lockwasher 5/16" Scr.*		156	712-11	6	Hex Inserted Locknut %-24	
20	742-12	0	17.0 inch Blade		1			Thd.	
21	710-11		Hex Hd. Cap Scr. 5/16-24 x		157	736-10	5	Belleville Washer	
			1.00" Lg. Heat Treated		158	1094		Spring Lever Ass'y. with Knob	
22	710-45	9	Hex Hd. Cap Scr. %-24			1	1		
	710-40		1 50" La 11 T		159	712-26		Hex Nut 5/16-18 Thd.*	
23	736-21	7	x 1.50" Lg. Heat Treated		160	996	1	Hitch Bracket (Not Shown)	
23	/ 30-21	/	Spring Lockwasher ¾" Scr.		161	731-14	4	Vinyl Black Strip for Dash 12.0)"
1			Heavy Duty					Lg. (Not Shown)	Ν
					164	736-	114	internal locher as he	
			X		101	1 20-	r (shipt liver brachet	-
				÷.		11013		A A Bast	

*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. 162 713-160 420 there 163 713-154 M/L

(463-Top Flite Red)

When ordering parts if color or finish is important, use appropriate code shown at left. (e.g.-Top Flite Red-11840 (463).)



PARTS LIST FOR FIGURE 38

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REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.		DESCRIPTION	NEW PART
1	716-10	4	E-Ring for .500" Dia. Shaft		14	741-86	52	Detent Ball	
2	748-20	4	#41 Sprocket Center 8 Tooth		15	732-86	53	Detent Spring	
3	714-12	9	#4 Hi-Pro Key 3/32 x %" Dia.		16	736-11	6	Flat Washer .635 I.D. x .93	
4	711-85	4	Output Shaft			1		O.D.	
5	714-12	.6	#9 Hi-Pro Key 3/16 x ¾" Dia.		17	716-10)6	E-Ring for .625" Dia. Shaft	
6			Transmission Case—L.H.		18	716-86	55	Snap Ring for .500" Dia. Shaft	
			Complete		19	748-86	56	Pinion Gear	
7	748-85	55	Flange Bearing		20	748-86	57	Bearing .627 I.D.	
8	712-11	7	Hex Centerlock 1/4-28*		21	738-15	59	Pinion Shaft	
9	748-85	56	Bevel Gear		22	736-19	22	Flat Washer .531 I.D. x .93	
10	748-85	57	Clutch Collar					O.D.	
11	858	33	Shift Yoke Assembly		23	736-92	21	Spring Lockwasher ½" Scr.*	
12	717-12	24	Transmission Case—R.H.—		24	712-92	22	Hex Jam Nut 1/2-20 Thd.*	
			Comp. (With Detent Hole)		25	737-12	20	Grease—High Temp. 450° F.	
13	710-19	75	Hex Hd. Cap Scr. ¼-28 x .62"					(5 oz.)	Ν
1			Lg.*		26	717-2	22	Transmission Complete	

*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.

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FIGURE 39 DIFFERENTIAL 10483



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PARTS LIST FOR FIGURE 39

REF. NO.	PART NO.		DESCRIPTION	NEW PART
1	719-15	0	Housing Half (1)	
	738-13		Shaft—Short (1)	
2 3	738-13	-	Shaft—Long (1)	
4	748-18	-	Gear—Double "D" Hole (2)	
5	748-15	-	Gear—Round Hole (2)	
6			Drive Pin (1)	
7		7	Flat Washer (2)	
8	736-18	8	Washer (2)	
9	913	3	Sprocket (1)	
10	715-24	7	Spirol Pin 3/16" Dia. x 1.00" Lg.* (2)	
11	710-52	26	Hex Hd. Cap Scr. 5/16-24 x 4.00" Lg.* (4)	
12	712-23	37	Hex Locknut 5/16-24 Thd. (4)	
13	719-15	50	Housing Half (1)	
14			Dowel Pin 3/16" Dia. x .62" Lg. (2)	
15	736-11	19	Spring Lockwasher 5/16" Scr.* (8)	
16	748-16	59	Flange Bearing (2)	
17	737-12	20	Grease—High Temp. 450°F. (2 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.





REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	INEW PART
1	712-12	21	Hex Nut #10-24 Thd.*	
2	736-33	8	Fiber Washer	
3	732-25	57	Switch Spring	1
4	710-42	25	Truss Head Mach. Scr. #10- 24 Thd.*	
5	725-26	6	Ignition Switch	
6	725-12	28	Ignition Key	
7	725-26	59	Satety Switch—Red	
8	725-27	74	Wire Harness	

PAR	rs l	IST.	FOR	FIGL	JRE 40
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*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 41. ELECTRICAL DIAGRAM



NOTE

Fuse-Standard 3AG Type 7½ Amps. 32 Volts 1¼" Long x ¼" Dia. Available at Most Radio-TV Shops, Service Stations and Automotive Stores. 725-298

PARTS LIST FOR FIGURE 41

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.		DESCRIPTION	NEW PART
1			Part of Ref. No. 2		11	725-20	2	Head Light Switch	
2	725-15		Head Lights		12	725-11	9	Ammeter	
3	710-28	�	Truss Head Mach. Ser. 1/4-20		13	725-27	0	Solenoid	1
			×.50" Lg.*		14	725-26	8	Safety Switch	
4	1079	5	Head Light Retainer		15	725-34	3	Wire Harness	N
5	712-28	7	Hex Nut 1/4-20 Thd.*		16	725-12	2	Electric Wire with Fuse Holder	
6	312-882	•	Battery Hold Down		17			The following will be a list of	
7	712-11	-	Wing Nut 1/4-20 Thd.					hardware for battery	
8	711-22	-	Battery Hold Down Rod					terminals:	
9	725-11	•	Battery			710-25	8	Hex Head Scr. ¼-20 x ¾" Lg.*	
10	725-26		Ignition Switch			712-28	37	Hex Nut 1/4-20 Thd.*	
	725-20	1	Ignition Key (Not Shown)			736-32	9	Spring Lockwasher 1/4" Scr.*	

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*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.

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

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

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 CIRCUM-STANCES 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, de-

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

scription 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. 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.