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Owner's Operating Service Instruction Manual

Model No. 134-585A

- ASSEMBLY
- OPERATION
- REPAIR PARTS

38" ELECTRIC RIDER

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.

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

IMPORTANT

SAFE OPERATION PRACTICES FOR ELECTRIC RIDER

- 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 instructions.
- 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.
- Place the clutch lockout in the disengaged position and shift into neutral before attempting to start the drive motor.
- **6** Stop motors before leaving operator position.
- 7 Stop motors before making any repairs or adjustments.
- 8 Disengage power by turning off switch when transporting or not in use.
- 9 Take all possible precautions when leaving vehicle unattended such as shifting into neutral, setting parking brake, stopping cutting deck blades, drive motor and removing key.
- 10 Do not stop or start suddenly when going uphill or downhill. Mow up and down face of steep slopes, at a slow forward speed, never across the face.

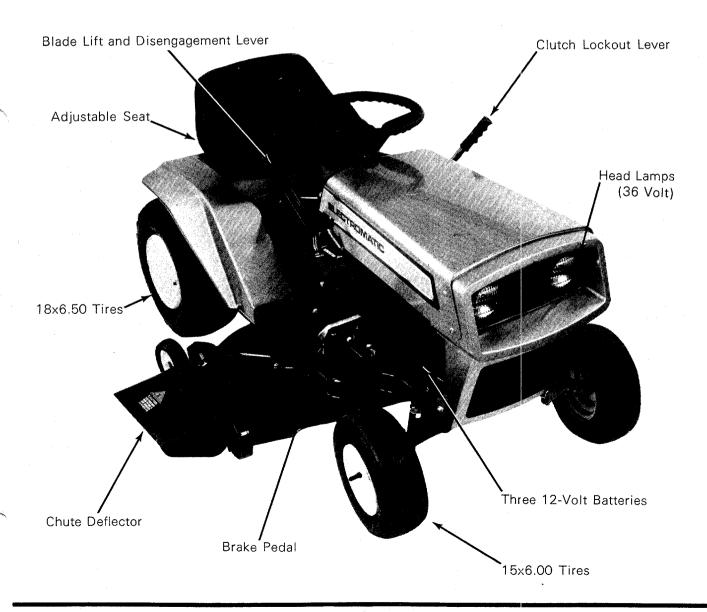
- 11 Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.
- **12** Stay alert for holes in terrain and other hidden hazards.
- 13 Use care when pulling loads. safely control and to limit current draw of drive motor.
 - **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.
- 14 Watch for traffic when crossing or near roadways.
- 15 When mowing, be careful not to direct discharge from mower toward bystanders. Do not allow anyone near vehicle while in operation.
- 16 The gasses produced while the batteries are being charged are highly combustible. Never use a match or any open flame to check the water level in the battery.
- 17 Keep the vehicle and attachment(s) 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 or in proper adjustment to be sure the equipment is in safe working condition.

- 19 To reduce fire hazard keep drive motor free of grass and leaves.
- 20 The drive motor and cutting motors should be stopped and the key removed before inspecting for damage after striking a foreign object, and the damage should be repaired before restarting and operating the equipment.
- 21 When using the vehicle proceed as follows:
 - (1) Mow only in daylight or in good artificial light.
 - (2) Never make a cutting height adjustment while the motor is running if operator must dismount to do so.
 - (3) Stop the drive and cutting deck motors, remove key, before removing grass catcher and/or unclogging chute.
 - (4) Check blade mounting nuts for proper tightness at frequent intervals.
- 22 Check grass catcher bags frequently for wear or deterioration. Replace with new bags for safety protection.

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Lawn Mower Features

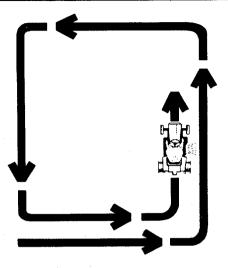


Hints for Best Performance

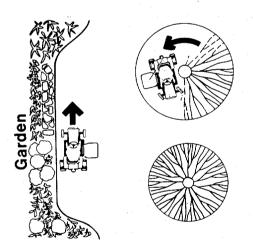
This electric riding mower is the ultimate in quietness and convenience. It has its own characteristics that must be considered in its operation. The "fuel" is in the form of stored electricity in three 12-Volt batteries wired in series to provide a 36-Volt system. The gasoline engine and the electric motor are similar in the way they consume fuel (either gasoline or electricity) by the fact that the harder the unit is operated, the faster the fuel is consumed. Cutting at the maximum ground speed in heavy grass will consume more electrical energy than cutting at an average speed in average or light grass. The length of operating time is in direct proportion to the way the unit is driven and the cutting conditions. As an example, the unit will cut light grass for approximately one hour at a modest forward speed. That time may be cut in half when cutting heavy grass at high speed. The size of lawn to be cut becomes the major influencing factor in how the unit is used. The built-in charging system takes 12 hours to 100% charge the batteries.

Your riding mower is engineered and designed to give you a manicured lawn with a minimum amount of effort for the operator. The twin blade cutting deck is designed to effectively discharge the cut grass from the deck onto the lawn or into a grass catcher.

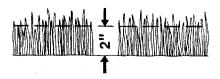
If you are cutting without a grass catcher and the grass is wet, thick or lush you should cut in a counter clockwise direction to discharge the grass towards the cut section of your lawn. Recutting large amounts of clippings will cause windrows of grass.



When cutting with a grass catcher kit, you can cut either clockwise or counter clockwise. Plan your cutting so you always trim with the left side of the deck and have clearance for the grass catcher.



Grasses such as Merion or Kentucky Blue should not be cut less than 2 inches high. Infrequent cutting removes too much of the leaf surface. Never cut off more than 1/3 of the grass blade.



It is important to have the blade of your mower sharp when cutting. Details on blade sharpening are explained in the Maintenance Section of this handbook. Cutting with a dull blade generally results in a white cast over a recent cut lawn and later the tips of the blades turn brown.

Avoid cutting wet grass because it will clog up under the deck and will not discharge properly. The general appearance will be much better when the grass is dry when you cut it. A new lawn has much softer blades of grass and has a higher moisture content. It is extremely important for this type of lawn to be cut with a sharp blade.

Following the same pattern every time when you mow your lawn can develop ridges at right angles to the direction of mowing. By changing your direction of mowing (diagonal or right angle) you can prevent this.

Grass Catcher Model No. 194-015A is available as optional equipment for the mower shown in this manual.

Warning: The mower shall 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. Use factory replacement bag No. 764-122.

Assembly

NOTE: Reference to Left or Right side of machine is from the operator's position in the seat facing forward.

The Riding Mower is packed and shipped in one container and is fully assembled except for the steering wheel, seat and activating the batteries.

Attaching Steering Wheel

- 1 Place the steering wheel over the steering column extending through the dash. Line up the flats on the steering column with the flats in the steering wheel. (See figure 1.)
- Place the washer with the cupped side down over the steering column and secure.
- **3** Place the cap over the center of the steering wheel and seat it with your hand.

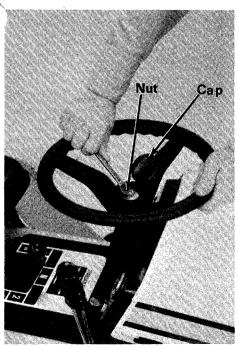


Figure 1

Seat Assembly

1 Hook the carriage bolt into the slot in the bottom of the seat See Figure 1.

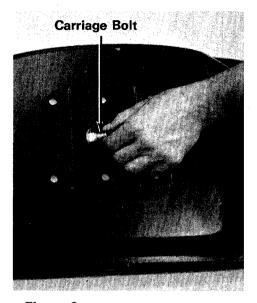


Figure 2

- 2 Place the seat on the spring in one of the four adjustment holes. (See figure 3.)
- **3** Secure the seat with the large lockwasher and nut.

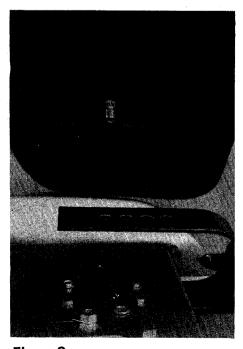


Figure 3

Activating the Batteries



Electrolyte contains sulphuric acid which is harmful to skin, eyes and clothing. Avoid direct contact with the electrolyte at all times.

Fill batteries in an area where clean water is available for flushing the skin and eyes at all times.

Wear glasses (preferably safety glasses) to protect the eyes while handling electrolyte.

Electrolyte Antidotes

External: Flood with water, then cover with moistened sodium bicarbonate (baking soda). If eyes are involved, wash first with water then with 1 per cent solution of freshly prepared sodium bicarbonate (baking soda). **Call pyhsician immediately.**

Internal: Do not use emetics, stomach pumps, carbonates or bicarbonates. Give at least 2 to 3 oz. of milk of magnesia, or preferably aluminum hydroxide gel diluted with water. If these alkalies are not available, the whites of eggs (2 to 3) well beaten may be used. Give large quantities of water. Prevent collapse. Call physician immediately.

Assembly

1 Compare the wiring of the batteries against figure 4 to be sure the batteries are wired as they should be. Batteries that are wired wrong could cause a dead short when they are activated.

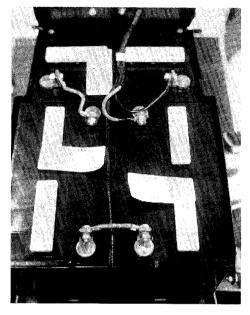


Figure 4

- 2 It will be necessary to purchase locally 18 quarts of Sulphuric Acid Electrolyte (Sp. Gr. 1.265) to activate the battery.
- 3 Cut the sealed end from the fill tube on the acid pack. (See figure 5.)
- 4 Pinch the tube to keep the acid from flowing from the tube until you have the acid pack in position as shown in figure 6.



Figure 5

Fill the batteries with the acid. Only fill them until the acid level is 1/4" above the plates. Do not fill to the split ring at this time.



Figure 6

- 6 Charge the batteries as outlined in the Maintenance Section of this handbook.
- 7 Add the remaining acid to fill the batteries to the split ring.

Tire Pressure

For shipping purposes, the tires on your unit may be over-inflated. Tire pressure should be reduced before unit is put into operation. Pressure should not exceed 15 P.S.I. Equal tire pressure should be maintained.

Operation

CAUTION

- Keep all shields and guards in place.
- Before leaving operators position: Shift transmission into neutral Set the parking brake Disengage the blade engagement lever Shut off all motors Remove ignition key
- Wait for all movement to stop, remove the ground wire to the battery before servicing the machine.
- 4 Keep people and pets a safe distance away from the machine.

Main Kev Switch

Turn the key to the START position to start the traction motor. The taction motor operates the drive to the rear wheels. Once the motor is running, release the key. The switch will return to the ON position. To stop the motor, turn the key to the OFF position. This switch must be in the ON position before the blades can be operated. (See figure 7.)

Caution: Remove the key from the riding mower when the mower is not in use to prevent accidental starting.

Mower Blade Switch

Raise the switch to the START position. After the motors are running, release the switch and it will return to the ON position. Move the switch to the OFF position to stop the blades. The traction motor must be running before the mower blades can operate. Turning off the main key switch will shut off both the traction motor and the blade motors. (See figure 7.)

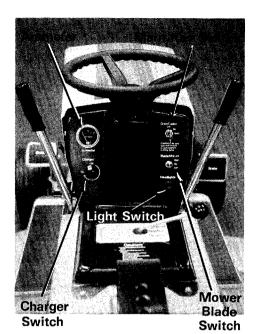


Figure 7

Gear Shift Lever

The gear shift lever is used to shift into FORWARD, NEUTRAL or RE-VERSE. (See figure 8.)

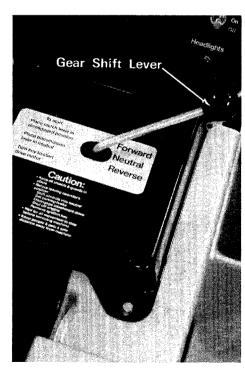


Figure 8

Brake Pedal

The brake pedal is located on the right side of the mower and is operated by depressing it with your right foot. When coming to a complete stop it is necessary to depress both the clutch and the brake. (See figure 9.)

Brake Lock

The brake lock is located on the right 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 9.)

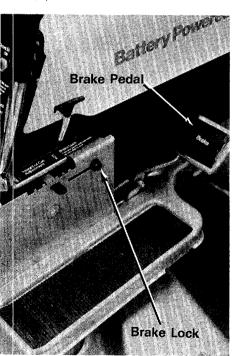


Figure 9

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 10.)

Operation

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 10.

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 10.)

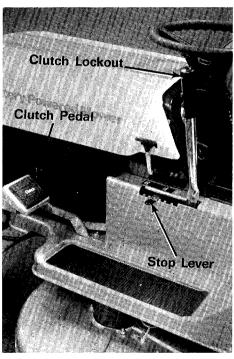


Figure 10.

Light Switch

The headlamps are operated by pulling out the light switch located on the dash board. The headlamps will only operate when the traction motor is running. (See figure 7.)

Ammeter

The ammeter registers the rate of battery charge. It only registers when the charger is plugged in and the switch is in the ON position. (See figure 7.)

Charger Switch

This switch turns on the charger to recharge the batteries. The cord for the charger is located under the hood. Details for charging the batteries is in the Maintenance Section of this handbook. (See figure 7.)

Lift Lever

The lift lever is used to raise the cutting deck. (See figure 11.)

Cutting Controls

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

Height of Cut Stop

Lift the stop and set it at the desired cuting height. (See figure 11.)

Wheel Height Adjusters

Move the lever towards the wheel and set it in the desired cutting height. (See figure 12.)

There are six different cutting heights. The cutting height 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. Set the height of cut stop in the low position. (See figure 11.)

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 wheels so they just clear the ground. (See figure 12.)

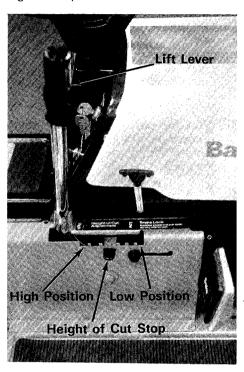


Figure 11

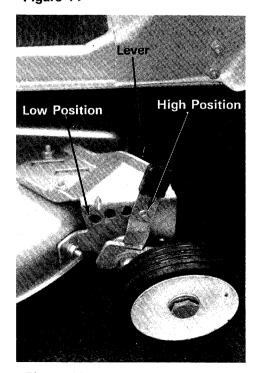


Figure 12

Operation

Starting the Traction Motor.

- Place the Clutch Lockout Lever in the START position.
- Turn the Main Key Switch to the START position. As soon as the motor is running, release the key and the switch will return to the ON position.
- 3 Turn the key to the OFF position to stop the traction motor.

Note: The blade motors also shut off if the Main Key Switch is turned to the OFF position.

Starting the Blade Motors

- 1 Start the traction motor as outlined in the paragraph above.
- 2 Raise the Mower Blade Switch to the START position. As soon as the motors are running, release the switch and it will return to the ON position.
- 3 To stop the blades from rotating, depress the mower blade switch to the OFF position.

Note: The blades will also shut off when the Main Key Switch is turned off.

WARNING

Do not attempt to clear the chute or perform any cleaning or repairs of the riding mower without turning off the main key switch and removing the key from the switch.

Operating the Mower

- 1 Set the desired cutting height.
- 2 Start the traction motor.
- **3** Set the clutch stop lever in the slow or medium speed range.

Note: As you become familiar with the operation of the mower you may wish to move the stop lever to a faster position.

- While holding down the clutch pedal, move the clutch lockout lever forward.
- **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 positions, release the clutch pedal slowly, depress it again, and then move the gear shift lever as required.

- 6 Once the machine is in motion, remove your 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.
- 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.

Note: The rider should be operated in the slow speeds when climbing a hill or descending. This reduces the current draw going uphill and retards the forward speed going downhill.

Operating the Cutter Blades

The blades can be started either while the mower is moving or standing still.

Move the Mower Blade Switch to the START position, as soon as the motors are running, release the switch and it will return to the ON position.

To stop the blades from rotating, depress the Mower Blade Switch to the OFF position or turn off the Main Key Switch.

Note: When the riding mower is being used for other than mowing operations the blades should be shut off.

Maintenance and adjustments for the engine are covered in the Engine Operating and Maintenance Instructions section of this handbook.

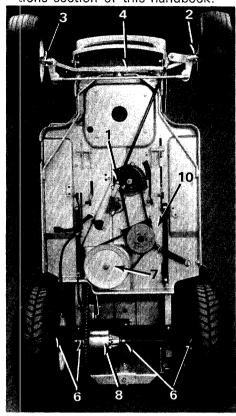


Figure 13



Figure 14

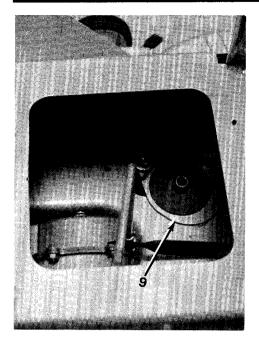


Figure 15

Lubrication

Steering 1—Rack and pinion, lubricate with multi-purpose automotive grease once a year. (See figure 13.)

King Pin 2—Oil with SAE 30 oil once a year. (See figure 13.)

Wheel Bearings 3—Oil with SAE 30 oil four times a year. (See figure 13.)

Front Pivot Bolt 4—Oil with SAE 30 oil once a year. (See figure 13.)

Deck Wheels 5—Remove the axle bolts and lubricate with multi-purpose automotive grease once a year. (See figure 14.)

Rear Axle Bearings 6—Oil with SAE 30 oil once a year. Four bearings. (See figure 13.)

Transmission 7—The transmission is pre-lubricated and does not have to be checked. If disassembled, lubricate with 5 ounces of 450°F. grease. (See figure 13.)

Differential 8—The differential is pre-lubricated and does not have to be checked. If disassembled lubricate with 2 ounces of 450°F. grease. (See figure 13.)

Variable Speed Pivot 9—Lubricate with SAE 30 oil or very light grease every 25 hours or anytime the clutch pedal operates stiff. Remove the gear shift knob and transmission cover to lubricate. (See figure 15.)

Variable Speed Pulley 10—Lightly oil with SAE 10 oil so the center section of the pulley slides up and down freely. The two end bearings are sealed and require no lubrication.

General—The following parts should be oiled once a year with SAE 30 oil:

All deck links

Clutch and brake pivot points and linkage

Height Adjustment Levers Steering Column bearings

The following items have sealed bearings and require no further lubrication.

Idler Bearings
Tie Rod Ends

Battery Charger



THE GASES PRODUCED WHILE THE BATTERIES ARE BEING CHARGED ARE HIGHLY COMBUSTIBLE. THE HOOD SHOULD BE RAISED UNTIL THE CHARGER SWITCH RETURNS TO THE OFF POSITION. KEEP OPEN FLAMES AWAY FROM THE UNIT AND DO NOT SMOKE IN THE AREA.

The batteries in your riding mower are specially built to withstand repeated charging without damage. Whenever the mower is not being used, the charger cord should be plugged into a 110-125 volt AC grounded outlet. The charger will draw 7.5 amps, until the battery is charged to 80% of its capacity, and then it will taper off. After the cord is plugged into the outlet, turn the charger switch clockwise until it stops. The timer behind the switch will rotate it to the OFF position at which time the batteries will be charged to their fullest capacity. The switch will not begin to rotate until the batteries have reached 80% of their capacity. This will take approximately 5 hours maximum.

Caution: Always turn the charger switch to the OFF position before removing the cord from the outlet.

The charger cord should be left plugged into a live outlet at all times when the mower is not in use. A timer built into the charger will automatically turn on the charger once a day for a few minutes and charge the batteries. This will keep the batteries at full capacity. This is very important during winter storage. A battery will lose 50% of its capacity if it is not used for a 90 day period. This can cause a battery to freeze and crack during extreme cold weather. Some heat is generated from the charger while it is operating. This is normal. (See figure 16.)

The ammeter shows you the rate at which your batteries are charging. Maximum charging rate is approximately 7 to 8 amps. The charging rate will drop to 3 amps during the latter part of charging.

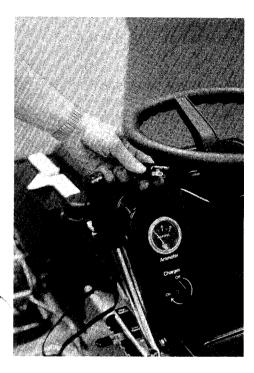


Figure 16

Charging Hints

- Be sure the outlet used to charge the battery is live and does not shut off when you turn off the lights.
- Only use the charger built into the mower to charge the batteries. Do not use any other charger.
- 3 Do not use the battery in the mower to "jump" any other vehicle.

Battery Maintenance

Follow the instructions in the above paragraph covering the charging of the batteries. To charge a set of batteries to 100% of capacity will take a maximum of 12 hours.

Reading your ammeter during the charging will give you an indication of the state of charge of your batteries. If the ammeter reading is over 6 Amps. you have less than 80% of capacity.

A hydrometer can be used to check the state of charge of the batteries. Always read a hydrometer at eye level to obtain a true reading. Keep the float vertical. A hydrometer is designed to give the correct reading at 80°F. This is the electrolyte temperatuer, not the air temperature. Draw enough electrolyte into the hydrometer so the float does not touch the bottom of the tube. A correction chart is necessary to obtain a true reading. (See figure 17.)



Figure 17

Temperature	Correction Chart
°F. 120 115 105 100 90 80 70 60 55 40 30 20 15 10	Correction + .016 + .014 + .012 + .010 + .008 + .006 + .004 + .002 0002004006008010012014016018020022024026028

Figure 18

1.230 1.200 1.170	SpGr SpGr SpGr	1.280 1.250 1.220 1.190	SpGr SpGr SpGr	75% 50% 25%	Chg Chg Chg
1.140	SpGr	1.160	SpGr	Very	little
		1.130	usef	ul cap	acity

Figure 19

Examples of Reading Specific Gravity

Hydro. Read. (fig. 17) Electrolyte Temp. Temp. Correction (fig. Corrected SpGr*	30° F.
Hydro. Read. (fig. 17) Electrolye Temp. Temp. Correction (fig. Corrected SpGr*	100° F.

^{*}Compare to figure 19.

Water

Drinking water, except mineral water, may be used in the batteries. If your local water has a high mineral content (hard water) use distilled water in your batteries. Do not add electrolyte if the liquid level is down, only water.

If you add water to the battery it will lower the specific gravity of the electrolyte but the battery has not lost any of its charge. If water is added during freezing weather be sure you charge the battery as outlined in Battery Charger paragraph. Failure to do this can freeze and crack a battery.

Batteries that use excessive amounts of water indicate that they are being over-charged and the riding mower should be examined by a serviceman.

Battery Removal

If the batteries are removed from the riding mower for any reason, remove the plastic cover by pulling the pins and unsnapping it. Remove the cables in the order shown in figure 20. This will help prevent your wrench from arcing if it slips.

Note: Refer to figure 20 when you reconnect the battery to make sure it is connected properly.

Headlamps

The headlamps are 36-Volt. Use only authorized replacements. (GE 4350 or order from the mower manufacturer by part number 725-377)

Automatic Reset Breakers

For your protection, both the traction motor and the mower blade motors have automatic reset breakers that will shut off the motors if they overheat as a result of overloading. Cutting high grass at an excessive speed is a common cause for overheating.

Caution: If one blade motor cuts out from overheating, both motors will stop.

If the automatic reset breaker on the traction motor opens, it will take about 30 minutes before it will reset itself.

If the automatic reset breaker on one of the blade motors opens, it will take about five minutes before they will reset themselves.

Fuse (Buss WDA 100)

The 100 Amp. fuse is located inside the charger box in back of the dashboard. Unsnap the plastic cover to check the fuse. There are three extra fuses in your assembly pack. DO NOT SUBSTITUTE any other fuse or any other material in place of the correct fuse.

The fuse has two purposes. One is to protect the wiring against a direct short and the other is to protect the electrical circuit against overloads.

If either the traction motor or blade motors are overworked for a long period of time the automatic reset breakers will open and the overheated motor will shut off as explained in the above paragraphs.

If a heavy surge of current is drawn through either the traction motor or blade motors the 100 Amp. fuse can melt. An example of this would be cutting heavy grass while climbing a hill at a fast ground speed.

In the event of a melted fuse, review how the machine was operated prior to fuse melting. If the machine was not heavily loaded, a failure within the circuitry may have occurred and the reason for it melting should be corrected before a new fuse is installed.

To remove the fuse, remove the plastic cover, loosen the two nuts on each end of the fuse and take the free ends off the two terminals. Replace it with a Buss WDA 100 fuse. (Manufacturers number 725-376)

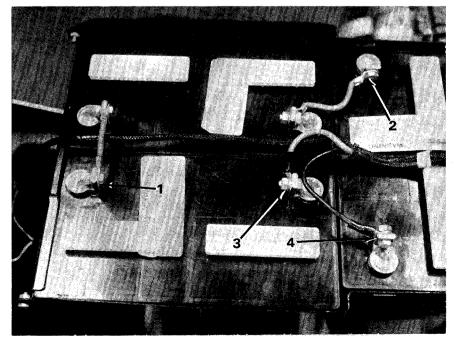


Figure 20

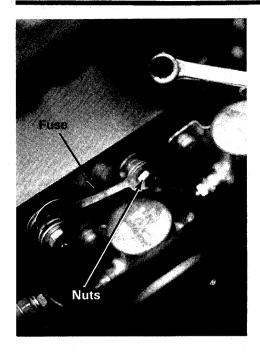


Figure 21

Blade Replacement

Remove the retainer nut and lock-washer. Pull the blade from the motor shaft. (See figure 22.)

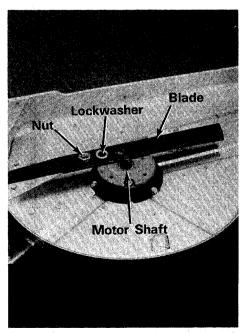


Figure 22

When grinding or filing the blade, remove equal amounts of metal from both edges to keep the blade in balance.

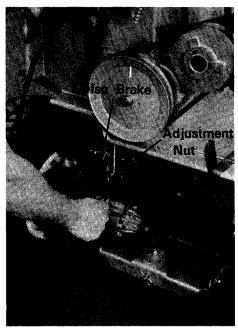


Figure 23
Brake Adjustment

To adjust the brake on your rider, follow these steps:

- Depress the brake pedal and lift the brake lock so the pedal stays in the depressed position.
- Place the clutch lockout in the START position.
- **3** Try to push the rider. If the rider can be moved, tighten the brake adjustment nut as shown in figure 23.

Note: It is not necessary to tip the rider up on end as shown in the photograph. The adjusting nut can be reached with the rider in the normal operating position.

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

Chain Adjustment

To tighten the chain, loosen the two locknuts on each side of the rear axle. (See figure 24.)

Tighten the adjusting nuts equally on both sides. Tighten until the chain has 1/4 inch slack between the sprockets.

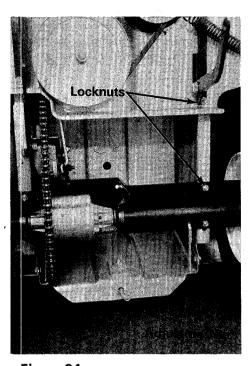


Figure 24

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

Tighten the four locknuts after the adjustment is made.

Wheel Alignment

The caster (forward slant of the king pin) and the camber (tilt of the wheels out at the top) requires no adjustment. Automotive steering principles have been used to determine the caster and camber on the rider. The front wheels should toe-in ½ inch. See figure 25.)

To adjust follow these steps:

Remove the elastic locknut and drop the tie rod end from the steering arm. (See figure 25.)

- 2 Loosen the hex jam nut on the tie rod.
- 3 Adjust the tie rod assembly for correct wheel alignment.

Note: Dimension B should be approximately $\frac{1}{8}$ inch less than dimension A.

- 4 To increase dimension B screw the rod into the tie rod end.
- 5 To decrease dimension B unscrew the tire rod from the tie rod end.
- **6** Reassemble the rod. Check dimensions.

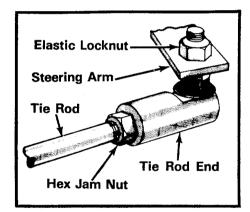


Figure 25

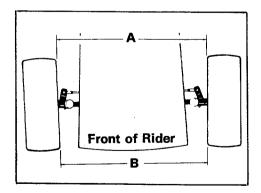


Figure 26

Removing the Variable Speed Belts

The variable speed belts can be removed from the rider without removing the cutting deck and batteries, however, they can be removed as the photographs show to give you more working room.

To Remove the Batteries and Cutting Deck

- Before lifting up one end of the mower, remove the batteries as outlined in the Battery Removal Section of this manual.
- 2 Lift up the front of the rider and tip it back so it rests on the rear wheels and the seat back.
- Remove the cutting deck by unplugging the two leads to the mower blade motors, and removing the six cotter pins on the lower deck links.
- 4 Place the lift lever in the locked out position.
- Remove the nut and lockwasher on the transmission pulley and pull the pulley off the spindle. (See figure 27.)
- 6 Remove the lower belt from the variable speed pulley. (See figure 28.)
- 7 Slide the center section of the variable speed pulley towards you and unhook the upper belt.
- 8 Reassemble in reverse order with the new belts

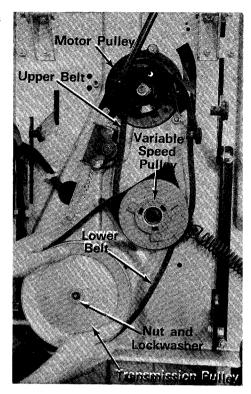


Figure 27

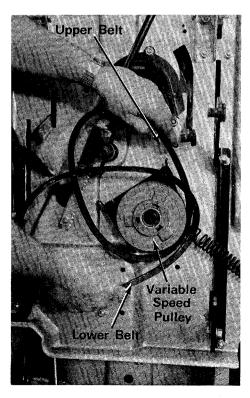


Figure 28

Troubleshooting

If a problem is encountered which cannot be solved, refer to the chart on page 16 for a possible remedy.

Off-season Storage

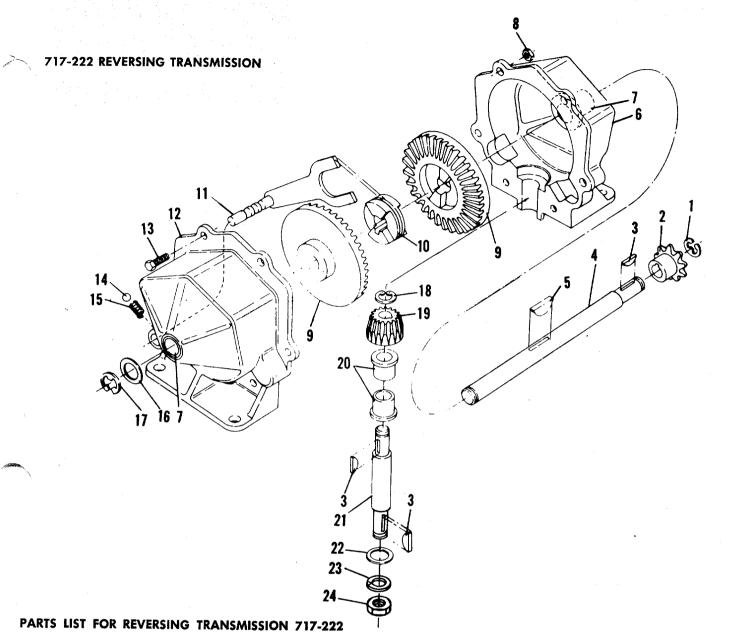
If the machine is to be inoperative for a period longer than 30 days, the following procedures are recommended:

- 1 Clean the entire mower and motors thoroughly.
- 2 Lubricate all lubrication points indicated in figures 13 to 15, then wipe the entire machine with an oiled rag in order to protect the surfaces.
- 3 Check the water level in the batteries and add water if necessary.
- 4 Plug the charger into an outlet that has power all the time. Set the charger switch to the ON position. When the batteries are completely charged, the timer will turn on the charger once a day for a few minutes to keep the batteries at full charge.

Trouble Shooting Chart

Problem

Traction Motor will not run.	 A Clutch lockout is not in the START position. B Defective key switch. C Motor overheated from excessive current draw Allow the automatic reset breaker to reset itself This takes about 30 minutes. D Main fuse blown. E Defective solenoid. F Wire loose or disconnected. G Defective motor.
Blade motors will not run.	 A Traction motor not running. B Defective mower blade switch. C Motor overheated from cutting heavy grass at excessive speed. Allow the automatic reset breaker to reset itself. This takes about five minutes. D Defective solenoid. E Wire loose or disconnected. F Defective motor.
Mower will not move (Traction Motor running)	 A Transmission in neutral. B Clutch lockout is in the START position. C Broken or thrown V-belt. D Broken chain on rear axle. E Broken or missing key in transmission (input pulley, output sprocket, clutch collar or pinion gear on input shaft). F Gears in differential stripped.
Ammeter registers zero when charger is turned on.	A The charger is not plugged into a live outlet. B Loose cables between the batteries. C Loose wire in the charging system. D Charger is not working. E Fuse blown in the charger.
Batteries will not hold a charge.	A Very low water level in batteries. B Battery (or batteries) defective.
Uneven mowing.	 A Wheel adjusters are not set the same. B Bent deck. C Ground speed is too fast for full float cutting. Adjust deck so it is suspended and reduce speed. D Low battery voltage.
Uncut strips of grass.	A Ground speed too fast. B Dull blades. C Short blade(s). D Bent deck. E Low battery voltage.

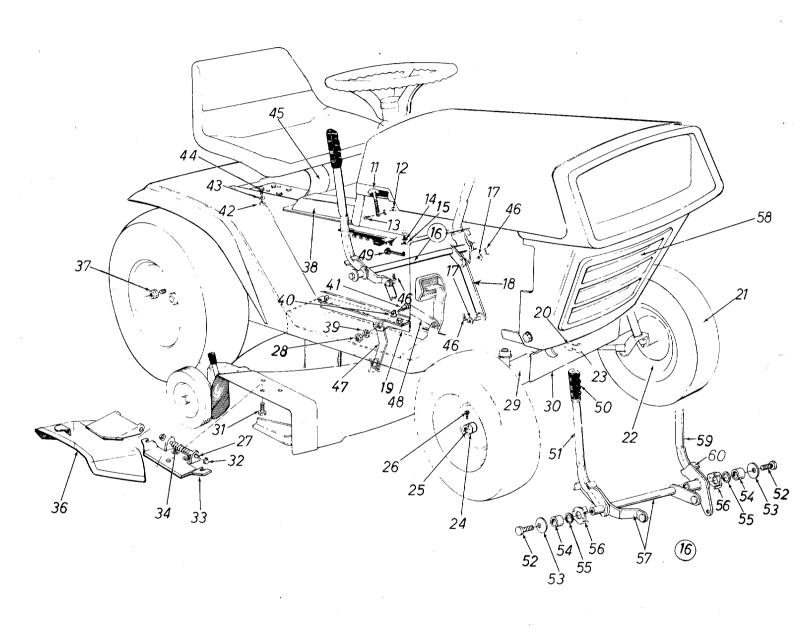


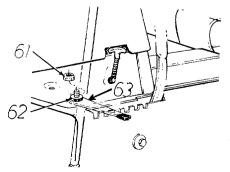
REF.	1 ;	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1 2 3 4 5 6 7 8 9 10 11 12	716-104 748-204 714-129 711-854 714-120 717-123 748-856 748-856 748-857 8583 717-124	4 9 4 5 3 5 7 6 7 3	E-Ring for .500" Dia. Shaft #41 Sprocket Center 8 Tooth #4 Hi-Pro Key 3/32 x %" Dia. Output Shaft #9 Hi-Pro Key 3/16 x ¾" Dia. Transmission Case—L.H. Complete Flange Bearing Hex Centerlock ¼-28* Bevel Gear Clutch Collar Shift Yoke Assembly Transmission Case—R.H.— Comp. (With Detent Hole) Hex Hd. Cap Scr. ¼-28 x .62" Lg.*		14 15 16 17 18 19 20 21 22 23 24 25	741-86 732-86 736-11 716-10 716-86 748-86 748-86 738-15 736-19 736-92 712-92 737-12	33 6 6 5 5 6 6 7 7 7 7 2 2 2 2	Detent Ball Detent Spring Flat Washer .635 I.D. x .93 O.D. E-Ring for .625" Dia. Shaft Snap Ring for .500" Dia. Shaft Pinion Gear Bearing .627 I.D. Pinion Shaft Flat Washer .531 I.D. x .93 O.D. Spring Lockwasher ½" Scr.* Hex Jam Nut ½-20 Thd.* Grease—High Temp. 450° F. (5 oz.) 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.

134-585A

IF YOU WRITE TO US ABOUT THIS ARTICLE OR IF YOU ORDER REPLACEMENT PARTS AL-WAYS MENTION THIS MODEL & SERIAL NO M O D E L





RIGHT HAND VIEW

PARTS LIST FOR RIGHT HAND VIEW MODEL 134-585A

-			Г	1
REF. NO.	PART NO.	COLOR	DESCRIPTION	NEW PART
11	723-296		Hood Lock Ass'y.	
12	712-287		Hex Nut ¼-20 Thd.*	
13	710-289		Hex Scr. ¼-20 x .50" Lg.*	
14	736-119		Spring Lockwasher 5/16" Scr.*	
15	712-267		Hex Nut 5/16-18 Thd.*	
16			Lift Handle Ass'y. See	
			Breakdown	
17	736-192		Flat Washer .531 I.D. x .93	
			O.D.	
18	11869		Lockout Link Ass'y.	
19	11494		Lift Bracket—R.H.	
	11493		Lift Bracket—L.H. (Not Shown)	
20	712-923		Hex Center Locknut %-18 Thd.	
21	734-497		Front Wheel Ass'y.—Comp. 15 x 6.00	
	734-498		Front Wheel Tire Only	
22	734-499		Front Wheel Rim Ass'y, Only	
23	710-312		Hex Scr. %-18 x 1.31" Lg.	
24	711-169		Collar %" I.D.	
	750-207		Front Wheel Bearing	
28	712-342		Hex Jam Nut %-16 Thd.*	
29	10555		Front Pivot Bar Ass'y.	
30	10495		Front Pivot Brkt.	
31	710-195		Hex Scr. ¼-28 x .62" Lg.*	
32	726-106		Push On Flange Palnut	
33	11399		Adapter Plate Ass'y.	
34	732-261		Torsion Spring	
35	11633		Chute Cover Ass'y. Comp.	
36	11574		Chute Cover Ass'y.	
37	712-193		Cone Nut %-24 Thd.	
38	11840		Upper Frame Cover	
1	736-169		Spring Lockwasher 3/8" Scr.*	
40	736-232		Wave Washer .530" I.D. x .78 O.D. x .013	
			1,70 O.D. X 1013	

	REF. NO.	PART NO.	COLOR	DESCRIPTION	NEW PART
	41	738-234	I	Shoulder Scr500" Dia. x	
	42	712-267		Hex Nut 5/16-18 Thd.*	
	43	736-119		Spring Lockwasher 5/16-16 Thd.*	
	44	710-198		Hex Hd. Sems Scr. 5/16-18 x 1.36"	
	45	732-255		Seat Spring	
	46	714-107		Internal Cotter Pin ½" Dia.*	ŀ
	47	11023		Deck Link Ass'y.	
	48	11056		Parking Brake—Lever Ass'y.— R.H.	i Ī
	49	726-121		Push Cap ¼" Dia.—Black	
	50	8118		Grip	
	51	11030		Lift Handle R.H.	
	52	710-201		Hex Hd. Cap Scr. %-16 x .62" Lg.*	
	53	736-219		Belleville Washer .400 I.D. x 1.13 O.D.	
	54	748-201		Spacer .635 I.D. x .88 O.D. x .57	
	55	736-233		Wave Washer .660 I.D. x .82 O.D. x .029	
	56	11029		Handle Pivot Bracket	
	57	11032		Lift Handle Brkt. Ass'y.	
	58	731-208		Grille Insert	
	59	11031		Lift Handle L.H.	
	60	11034	.	Clutch Handle Brkt. Ass'y.	
	61	712-267		Hex Nut 5/16-18 Thd.	
	62	735-126		Washer-Rubber	
	63	1102 <i>7</i>	İ	Handle Brkt. Assy.	
	64			Rubber Grip	
ı					

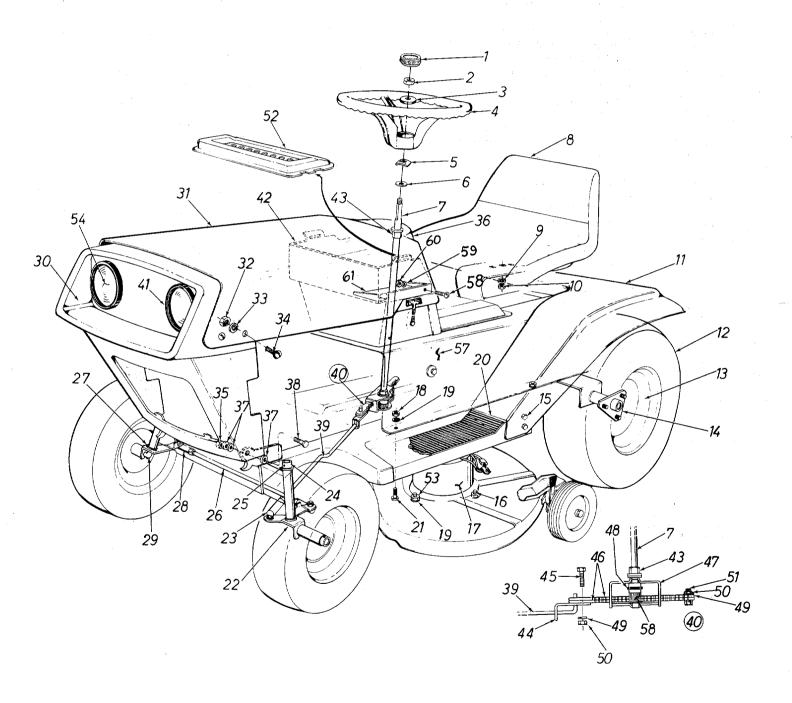
(459-Mag. Flake)

When ordering parts, if color or finish is important use the appropriate color code shown above (e.g. Mag Flake finish—11839 (459).)

^{*}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.

134-585A

IF YOU WRITE TO US ABOUT THIS ARTICLE OR IF YOU ORDER REPLACEMENT PARTS AL-WAYS MENTION THIS MODEL & SERIAL NO M O D E L



LEFT HAND VIEW

PARTS LIST FOR LEFT HAND VIEW MODEL 134-585A

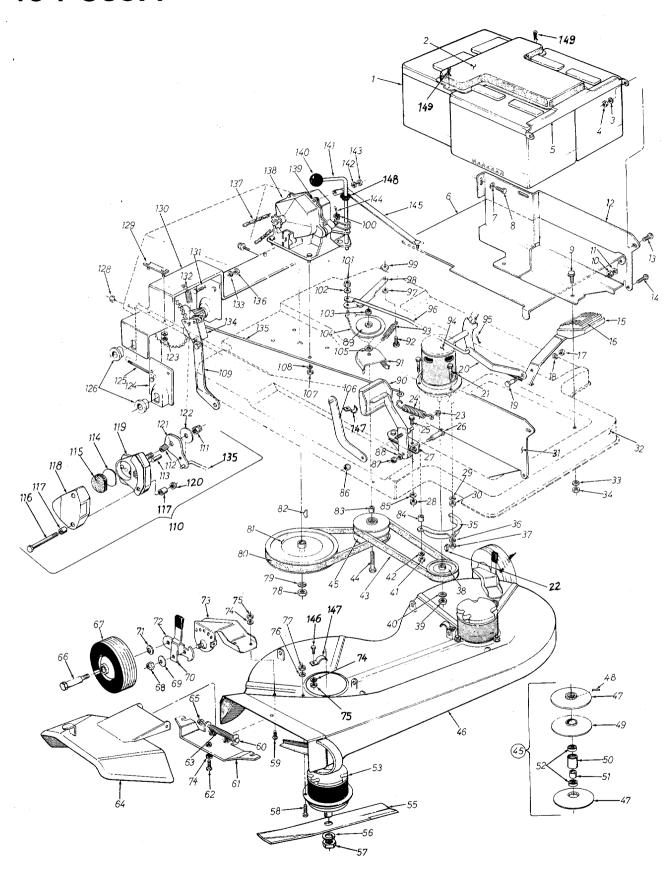
	REF. NO.	PART NO.	COLOR	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR	DESCRIPTION	NEW PART
ſ	1	731-220		Steering Wheel Cap		27	748-184		Flange Bearing .630 I.D.	
1	2	712-158		Hex Center Locknut 5/16-18		28	723-156		Ball Joint Ass'y. (Tie Rod End)	
1				Thd.		29	9095		Front Axle Ass'y. R.H.	
1	3	736-219		Belleville Washer .400" I.D.		30	719-197		Front Grille Comp.	
-				x 1.13 O.D.		31	11836		Front Hood	
	4	731-219		Steering Wheel 12.0 Dia.		32	712-287		Hex Nut ¼-20 Thd.*	
ı	5	712-222		Push Nut %" Dia.		33	736-329		Spring Lockwasher ¼" Scr.*	
	6	736-174		Wave Washer .660" I.D. x .88 O.D.		34	710-286)	Truss Hd. Mach. Scr. ¼-20 x .50" Lg.*	
-	7	738-200		Steering Shaft		35	712-375	5	Hex Center Locknut %-16 Thd.	
	8	757-241		Seat Ass'y. Comp.—10.0"		36	11488		Dash Panel	
	9	736-921		Spring Lockwasher ½" Scr.*		37	736-105		Belleville Washer	
	10	712-206		Hex Nut ½-13 Thd.		38	710-253	3	Hex Hd. Cap Scr. ¾-16 x	
	11	11839-	-459	Rear Fender					1.00" Lg.*	
Ì	12	734-528		Rear Wheel Ass'y.—Comp.		39	747-138	}	Steering Rod	
				18 x 6.50		40			Steering Ass'y. See Breakdown	
ŀ		734-294		Rear Wheel Tire Only 18 x		41	735-156	5	Headlight Door Mounting	
				6.50		42	12381		Dash Panel—Box Ass'y.	N
-	13	9262		Rear Wheel Rim Ass'y.		43	748-228		Hex Flange Bearing .505 I.D.	
- [14	10473		Rear Wheel Hub Ass'y.					Bronze	
	15	710-258		Hex Hd. Cap Scr. ¼-20 x		44	12372	2	Steering Rod Bracket	N
ŀ				.62" Lg.*		45	710-412	2	Hex Hd. Cap Scr. ¼-28 x .75"	
	16	710-198		Hex Sems Scr. 5/16-18 x					Lg.*	
				.75" Lg.*		46	11048	3	Steering Segment	
	17	725-358		Cutter Motor 36 Volts		47	11074	1	Steering Housing Ass'y.	
-	18	712-267		Hex Nut 5/16-18 Thd.*		48	715-120)	Spring Pin Spirol ¾" Ďia, x	
	19	736-119		Spring Lockwasher 5/16"					1.00" Lg.	
				Scr.*	1	49	736-329	9	Spring Lockwasher ¼" Scr.*	
	2Q	723-241		Foot Pad 15.75" Lg. x 4.0"		50	712-138		Hex Nut ¼-28 Thd.*	
				Wide	Ì	51	710-412		Hex Scr. 1/4-28 x .75" Lg.*	
	21	710-259		Hex Sems Scr. 5/16-18 x	Ì	52	731-232	2	Dash Panel Cover	
				62" Lg.*		53	712-267	7	Hex Nut 5/16-18 Thd.*	
- [22	9098		Front Axle Ass'y. L.H.		54	725-377	7	36 Volt Headlight	
	23	723-156		Ball Joint Ass'y. (Tie Rod End)		57	11487	7	Upper Frame	1
	24	711-169		Collar %" I.D.		58	710-473	}	Tuss Mach. Scr. #10-24 x.50" Lg.	*
	25	710-494		Sq. Hd. Set Scr. 5/16-18 x		59	736-147	,	Ext. L-Wash. #10 Scr.*	, 1
	۱ ۱			.38 Cup Pt.]	60	712-425	i	Sq. Nut #10-24 Thd.*	
	₹ેઠ	711-256		Tie Rod %-24 (Threaded Both		61	731-310		Shield "	N
				Ends)	1					

^{*}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.

(459-Mag. Flake)

When ordering parts, if color or finish is important use the appropriate color code shown above (e.g. Mag Flake finish—11839 (459).)

134-585A



DECK AND FRAME VIEW

PARTS LIST FOR DECK AND FRAME VIEW MODEL 134-585A

REF.			NEW PART	REF.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	725-374	12 Volt Battery—Deep Cycle (3)		42	736-119	9	Spring Lockwasher 5/16" Scr.*	
2	731-233	Battery Cover		43	754 -15 7	7	"V"-Belt 21/32 -28" Lg.	
3	736-175	Spring Washer .270" I.D. x		44	710-51		Hex Hd. Cap Scr. ½-20 x	
:		.51 O.D. x .030					3.50" Lg.*	
4	712-287	Hex Nut ¼-20 Thd.*		45	10438		Variable Speed Pulley Ass'y.	
5	11492	Battery Hold Bracket		46	12390		38.0" Elec, Rider Deck Ass'y.	N
6	11491	Battery Plate		47	748-17		Sheave Half	
7	736-175	Spring Washer .270" I.D. x .51 O.D. x .030		48	715-12	•	Spring Pin—Spirol 5/32" Dia. × .62" Lg.*	
8	710-289	Hex Scr. ¼-20 x .50" Lg.*		49	748-18		Movable Sheave Part Ass'y.	
9	710-259	Hex Sems Scr. 5/16-18 x		50	750-14		Steel Tubing	
1,0	710 007	,62" Lg.*		51 52	750-14		Spacer .520" I.D. x .692 O.D.	
10	712-287	Hex Nut ¼-20 Thd.*		32	741-13	7	Ball Bearing .50" I.D. x 1.38" C.D.	
11	736-175	Spring Washer .270" I.D. x .51 O.D x .030		53	725-35	8	Cutter Motor 36 Volts	
12	11490	Battery Side Panel—R.H.		54		7—452		
13	710 -286	Truss Mach. Scr. 14-20 x .50"	La.*	55	742-13		19.0 inch Blade	
14	710-286	Truss Mach. Scr. 14-20 x .50"		56	736-15		Spring Lockwasher %" Scr.*	
15	11037	Clutch Pedal Ass'y.		57	712-24		Hex Jam Nut %-11" Thd.*	
16	10614	Pedal Pad Vinyl		58	710-19	8	Hex Sems Scr. 5/16-18 x	
17	712-798	Hex Nut %-16 Thd.*					.75" Lg.*	
18	736-169	Spring Lockwasher %" Scr.*		59	710-28		Hex Scr. ¼-20 x .50" Lg.*	
19	738-140	Shoulder Scr437" Dia. x		60	711-57		Pivot Pin	
00	11004	.180		61 62	1139		Adapter Plate Ass'y.	
20	11094 710 - 322	Clutch Connecting Brkt.		63	710-19 732-26		Hex Scr. 1/4-28 x .62" Lg.*	
21 -	710-322	Hex Sems Scr. 5/16-18 x 1.00" Lg.		64			Tors on Spring Chute Cover Ass'y.	
22	714-129	#4 Hi-Pro-Key 3/32 x %" Di		65	726-10	4 - 4 57	Push Nut 14" Rod	
23	726-100	Push Nut %" Rod	1	66	738-11		Shoulder Scr625" Dia. x	
24	732-245	Brake Spring					1.75" Lg.	
25	710-198	Hex Sems Scr. 5/16-18 x		67	734-29	5	Wheel Ass'y. 5.0" Dia.	
		.75" Lg.*		68	712-11	6	Hex Inserted Locknut %-24	
26	738-213	Shoulder Scr498" Dia. x					Thd.	
		1.450" Lg.		69	736-10		Belleville Washer	
27	11039	Pedal "U"-Brkt. Ass'y.		70	1094		Spring Lever Ass'y, with Knob	
28	712-267	Hex Nut 5/16-18 Thd.*		71 72	736-10 1093		Belleville Washer	
29	736-119	Spring Lockwasher 5/16"		73	1123		Wheel Pivot Bar	
30	712-267	Scr.* Hex Nut 5/16-18 Thd.*		, 3	1123		Wheel Bracket Ass'y.—R.H. Wheel Bracket Ass'y.—L.H.	
31	11489	Battery Side Panel—L.H.			1120	,	Not Called Out	
32	11871	Frame Ass'y.—Lower		74	736-32	9	Spring Lockwasher ¼" Scr.*	
33	736-119	Spring Lockwasher 5/16"		75	712-28		Hex Nut 1/4-20 Thd.*	
		Scr.*		76	736-11	9	Spring Lockwasher 5/16"	
34	712-267	Hex Nut 5/16-18 Thd.*					Scr.*	
35	11495	Motor Belt Guard		77	712-26		Hex Nut 5/16-18" Thd.*	
36	736-119	Spring Lockwasher 5/16"		78	712-92		Hex Jam Nut 1/2-20 Thd.	
0-	710.047	Scr.*		79	736-92		Spring Lockwasher ½" Scr.*	
37	712-267	Hex Nut 5/16-18" Thd.*	. 1	80	754-13		"V"-Belt 21/32 x 31" Lg.	1
38	756-207 712-922	Motor Pulley 3.00" O.D. Spli	η [81 82	756-17 714-12		Transmission Pulley .50" I.D.	
40	736-921	Hex Jam Nut ½-20 Thd. Spring Lockwasher ½" Scr.*		02	/ 14-12	7	#4 Hi-Pro-Key 3/32 x %" Dia.	
41	712-267	Hex Nut 5/16-18" Thd.*						
		1.3x 7407 37 70=10 Thu.	<u> </u>					

(459-Mag. Flake)

When ordering parts, if color or finish is important use the appropriate color code shown above (e.g. Mag Flake finish—11839 (459).)

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

PARTS LIST (CONTINUED) FOR DECK AND FRAME VIEW MODEL 134-585A

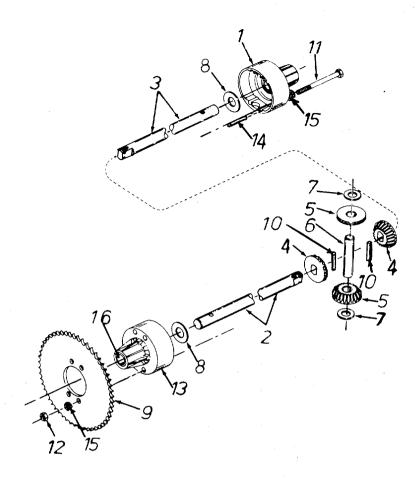
REF.		DESCRIPTION	NEW PART	REF. NO.	PART NO.	DESCRIPTION	NE'
83	711-494	Spacer .510" I.D. x .760 O.D.		114	HH-03-03097	Backup-Wash.	
-		× .390		115	HH-15-02533	Friction Pad 1.600 Dia. x .370 T	hk.
84	711-242	Spacer .380" I.D. x 1.010 x		11 <i>7</i>	761-138	Spacer for Disc Brake	
		.320		118	HH-12-03041	Casting, Cam Side	
85	736-119	Spring ockwasher 5/16"		119	HH-12-03045	Casting, Carrier Side	
	*	Scr.*		120	712-375	Hex Center Locknut %-16 Thd.	
86	712-429	Hex Inserted Locknut 5/16-		121	HH-18-02770	Cam Lever	
	710 700	18 Thd.	İ	122	HH-03-03032	Thrust Washer 5/16" I.D.	
87	712-798	Hex Nut %-16 Thd.*		123	712-429	Hex Inserted Locknut 5/16-	ľ
88	736-169	Spring Lockwasher ¾" Scr.*		124	10364	18 Thd.	
89	11069 11036	Variable Speed Plate Ass'y.		125	710-437	Rear Axle Plate	İ
90 91	11065	Brake Pedal Brkt, Ass'y. Vari, Spd.—Belt Guard Ass'y.		123	710-437	Chain Adjusting Link 5/16- 18 x 4.38" Lg.	1
92	710-376	Hex Scr. 5/16-18 x 1.00" Lg.*		126	748-151	Flange Bearing with Flats	
93	732-208	Variable Drive Spring		120	740-131	753 l.D.	İ
94		Traction Motor 36 Volts		128	712-429	Hex Inserted Locknut 5/16-	
95	714-507	Cotter Pin 3/32" Dia. x .75"		. 20	, , , , , , , , , , , , , , , , , , , ,	18 Thd.	
, 5	, 14 30,	Lg.*		129	10360	Axle Bolt Plate Ass'y.	
96	11064	Clutch Rod—Vari. Spd.		130	10362	Rear Axle Brkt. Ass'y.	
97	712-429	Hex Inserted Locknut 5/16-		131	710-198	Hex Sems Scr. 5/16-18 x .75" Lg.*	
98	11072	Variable Speed—Link		132	732-157	Spring .38 O.D. x 3.25	
99	711-404	Shoulder Nut		133	736-119	Spring Lockwasher 5/16"	
100	736-244	Flat Washer .141 I.D. x .28				Scr.*	
		O.D.		134	10398	Disc Brake Brkt, Ass'y.	
101	712-429	Hex Inserted Locknut 5/16- 18 Thd		135	747-106	Brake Rod .25" Dia. x 23.50". Lg.	
102	736-264	Flat Washer .344" I.D. x .62"		136	712-267	Hex Nut 5/16-18 Thd.*	
		O.D.		137	713-160	# 420 Chain ½" Pitch x 87	
103	719-922	Hex Jam Nut ½-20 Thd.				Links	
104	11067	Vari. Speed—Eccenter Ass'y.			713-154	#420 Master Link ½" Pitch	
105	736-114	Internal Lockwasher ½" Scr.*				Type II	
106	11056	Parking Brake—Lever Ass'y.—	- 1	138	717-222	Single Speed Transmission Ass	у́у.
		R.H.	ĺ	139	710-412	Hex Scr. 1/4-28 x .75" Lg.*	
107	712-267	Hex Nut 5/16-18 Thd.*		140		Ball Knob—Black	
108	736-119	Spring Lockwasher 5/16"		141	11853	Transmission Shift Lever Ass'y.	
100	11004	Scr.*		142	736-329	Spring Lockwasher 1/4" Scr.*	
109	11024	Deck Link		143	712-138 714-115	Hex Nut 1/4-28 Thd.*	
110	761-137 HH-02-03631	Disc Brake Ass'y.—Comp.		144 145	10396	Cotter Pin 1/8" Dia. x 1.00" Lg.*	l
	HH-02-03631 HH-06-03031	Locknut	İ	145	710-289	Transmission Support Brkt. Ass's	li -
	HH-05-03031	Compression Spring Push Pin		147	746-133	Hex Scr. 1/4-20 x .50" Lg.*	
116	710-316	Hex Scr. %-16 x 3.50" Lg.		148	731-309	Wire Clip—Open Type Bushing	1
110	/10-310	TIEX SCI, 78-10 X 3.30 Lg.		149	714-101	Intern. Cot. Pin ½ Dia.	1

(459-Mag. Flake)

When ordering parts, if color or finish is important use the appropriate color code shown above (e.g. Mag Flake finish—11839 (459).)

^{*}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.

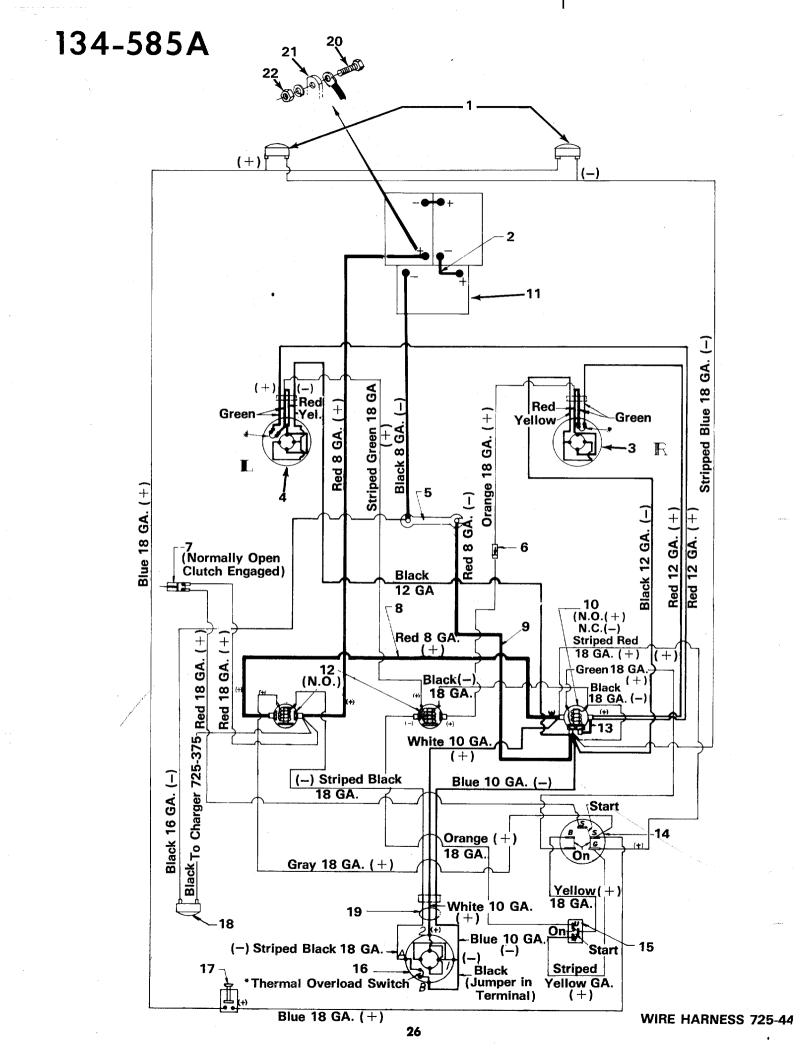
DIFFERENTIAL 10483



PARTS LIST FOR DIFFERENTIAL 10483

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	719-15	0	 Housing Half (1)	
	738-13		Shaft—Short (1)	
2	738-13	-	Shaft—Long (1)	
4	748-18		Gear—Double "D" Hole (2)	
5	748-15		Gear—Round Hole (2)	
6	711-27	-	Drive Pin (1)	
7	736-18	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	·6	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	0	Housing Half (1)	
14	715-12	23	Dowel Pin 3/16" Dia. x .62" Lg. (2)	
15	736-11	9	Spring Lockwasher 5/16"	
		_	Scr.* (8)	
16	748-16		Flange Bearing (2)	
17	737-12	20	Grease—High Temp, 450°F.	
			(2 oz.)	

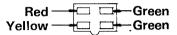
^{*}For faster service obtain standard nuts, bolts, and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.



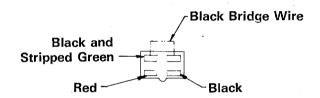
PARTS LIST FOR SCHEMATIC

REF.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
	725-377		36 Volt DC Headlight		13	725-378		Metal Strip	
2	725-388		Electric Wire		14	725-371		Ignition Switch	•
1 3	725-358		Cutter Motor R.			725-201		Ignition Key (Not Shown)	
4	725-358		Cutter Motor L.		15	725-372		Cutter Switch	
5	725-376		Fuse 100 AMP		16	725-357		Drive Motor	1
6	725-373		Diode		17	725-202		Light Switch	
7	725-268		Safety Switch (Normally Open)		18	725-386		Ammeter	
8	725-150		Electric Wire 8 GaRed		19	725-368		Motor Harness	
9	725-389		Electric Wire			725-440		Wire Harness	N
10	725-370		Solenoid—36 Volt		20	710-198		Hex Sems Scr. 5/16-18 x .75" Lg.*	
11	725-374		12 Volt Battery		21	736-119		L-Wash. 5/16" Scr.*	
12	725-369		Solenoid—36 Volt		22	712-267		Hex Nut 5/16-18 Thd.*	

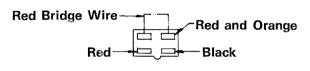
725-375 GHARGER 36-V



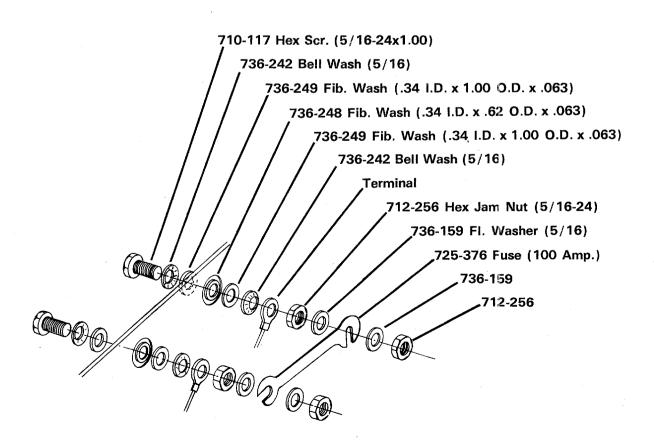
Drive Motor Connector Looking into Plug



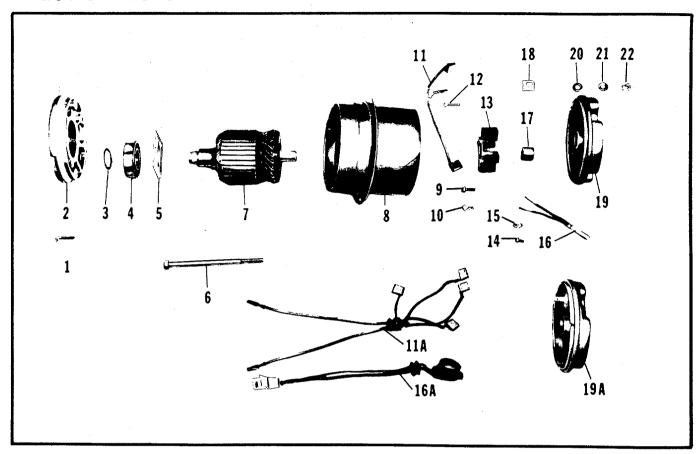
Harness Connector Looking into Plug Motor Marked



Harness Connector Looking into Plug Motor Marked **I**R ■



Traction Motor

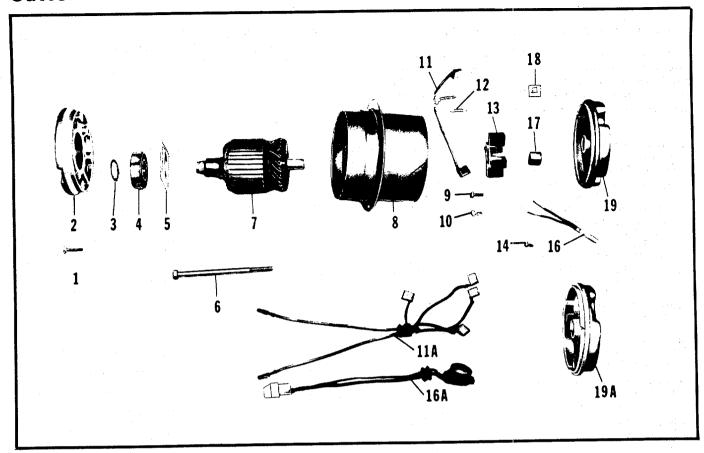


Model 725-357 C BOSH 06277-21-MO48HM

PARTS LIST

REF.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1 2	01137-21-SC48HM 06330-25-CP48HM	Scr., Bearing Retainer Plate Cap, Drive End-Vent	12	SP 551013	Brush Spring
3	Not required		14	01112-27-BH48HM SC 3080-1	Brush Holder Scr., Motor Protector Holder
5	01225-25-BB48HM 01144-26-PL48HM	Bearing, Drive End Plate, Bearing Retainer	15	EC 3046-4 01238-20-SW48HM	Holder, Motor Protector Motor Protector & Bracket
6	01141-23-SC48HM 06327-21-AT48HM	Thru Bolts	17	01111-29-BG48HM	Bearing, Commutator Cap
8	06331-23-HC48HM	Armature Assembly Hsg., Assy., Motor-Vent	18 19	01216-22-WA48HM 06328-23-CP48HM	Washer, Insulating Cap, Commutator End
9	01113-25-SC48HM	Scrs., Brush Holder Retain.	20	WA 3074-1	Washer, Insulating
11	EC 3164 01219-24-BR48HM	Retainer, Brush Shunt Brush & Bolt Assy.	21 22	WA 1-9 CA or ZN NT 7-8 CA or ZN	Washer Nut

Cutter Motor



Model 725-358 (01119-27-MO48HM)

PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1 2	01137-21-SC48HM 01149-24-CP48HM	Screw, Bearing Retainer Cap, Drive End	11A 12	01107-24-CB48HM SP 551013	Brush & Cable Assembly Brush Spring
3 4	01138-23-RG48HM 01127-22-BB48HM	Ring, Retaining Bearing, Drive End	13	01112-27-BH48HM SC 3080-1	Brush Holder Screw, Thermal Overload
5	01144-26PL48HM 01140-25-SC48HM	Plate, Bearing Retaining Thru Bolts	16A	01217-20-SW48HM	Retainer Thermal Overload Switch &
7 8	01173-22-AT48HM 01162-23-HG48HM	Armature Assembly Housing Assembly, Motor	17	01111-29-BG48HM	Cable Assy. Bearing, Commutator Cap
9 10	01113-25-SC48HM EC 3164	Screw, Brush Holder Retainer, Brush Shunt	18 19A	Not required 01148-22-CP48HM	Cap, Commutator End

PARTS INFORMATION

POWER EQUIPMENT PARTS AND SERVICE

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

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

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. 2525 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

Bleckrie, Inc. 7900 Lorain Avenue Cleveland, Ohio 44102

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

Bullard Supply 2409 Commerce Street Houston, Texas 77003

Carl A. Anderson Co. 623 S. 16th Street Omaha, Nebraska 68102

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

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

Gardenville Supply, Inc. Pipersville, Pennsylvania 18947

Henry W. O'Neil & Assoc., Inc. 410 North Goodman Street Rochester, New York 14609

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

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

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

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

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

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

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

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

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

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

Woodson Sales & Service 1702 North Sylvania Ft. Worth, Texas 76111

WARRANTY PARTS AND SERVICE POLICY

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

CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES

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

All claims MUST be substantiated with the following information:

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