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Dear Customer,

So often throughout the year we are all in a rush to meet our daily obligations. However, we at MTD Products Inc are taking a quick moment out to say "**Thank you for your business.**" Sincerely, MTD PRODUCTS INC

INSTRUCTIONS GIVEN WITH THIS SYM-BOL ARE FOR PERSONAL SAFETY. BE SURE TO FOLLOW THEM.

LIMITED WARRANTY

For one year from the date of original retail purchase, MTD PRODUCTS INC will either repair or replace, at its option, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser. Transportation charges for any parts submitted for replacement under this warranty must be paid by the purchaser unless such return is requested by MTD PRODUCTS INC.

This warranty will not apply to any part which has become inoperative due to misuse, excessive use, accident, neglect, improper maintenance, alterations, or unless the unit has been operated and maintained in accordance with the instructions furnished. This warranty does not apply to the engine, motor, battery, battery charger or component parts thereof. Please refer to the applicable manufacturer's warranty on these items.

This warranty will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. If you do not know the dealer or distributor in your area, please write to the Customer Service Department of MTD.

The return of a complete unit will r ot be accepted by the factory unless prior written permission has been extended by MTD.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

WARNING: This unit is equipped with an interr al combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal aws apply on federal lands. A spark arrester muffler is available at your nearest engine authorized service center.



Operate WALK-BEHIND mowers across the face of slopes, never up and down slopes. Operate RIDING mowers up and down slopes, never across the face of slopes.

CONTENTS OF HARDWARE PACK/PARTS IDENTIFICATION

Remove this sheet from your owner's manual and lay the hardware on the illustration for identification purposes. After assembly, keep the Slope Gauge which is on the reverse side of this sheet for future use. (Hardware pack may contain extra items which are not used on your unit.)



Cut Along Th

'ne

INCHES

IMPORTANT RULES FOR SAFE OPERATION

THIS SYMBOL POINTS OUT IMPORTANT SAFETY INSTRUCTIONS WHICH, IF NOT FOLLOWED, COULD ENDANGER THE PERSONAL SAFETY AND/OR PROPERTY OF YOURSELF AND OTHERS. READ AND FOLLOW ALL INSTRUCTIONS IN THIS MANUAL BEFORE ATTEMPTING TO OPERATE YOUR LAWN MOWER. FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY. WHEN YOU SEE THIS SYMBOL— A HEED ITS WARNING.



Your lawn mower was built to be operated according to the rules for safe operation in this manual. As with any type of power equipment, carelessness or error on the part of the operator can result in serious injury. If you violate any of these rules, you may cause serious injury to yourself or others.



TRAINING

- Read this owner's manual carefully in its entirety before attempting to assemble or operate this machine. Be completely familiar with the controls and the proper use of this machine before operating it. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
- 2. Your rotary mower is a precision piece of power equipment, not a plaything. Therefore, exercise extreme caution at all times.
- Never allow children to operate a power mower. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
- 4. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower to help prevent blade contact or thrown object injury. Although the area of operation should be completely cleared of foreign objects, an object may have been overlooked and could be accidently thrown by the mower in any direction and cause serious personal injury to the operator or any others allowed in the area.

PREPARATION

- Thoroughly inspect the area where the equipment is to be used. Remove all stones, sticks, wire, bones and other foreign objects which could be picked up and thrown by the mower in any direction and cause serious personal injury to the operator or any others allowed in the area.
- Always wear safety glasses or eye shields during operation or while performing an adjustment or repair, to protect eyes from foreign objects that may be thrown from the machine in any direction.
- Wear sturdy, rough-soled work shoes and close-fitting slacks and shirts to avoid entanglement in the moving parts. Never operate a unit in bare feet, sandals, or sneakers.
- 4. Check the fuel before starting the engine. Gasoline is an extremely flammable fuel. Do not fill the gasoline tank indoors, while the engine is running, or until engine has been allowed to cool for two minutes after running. Replace gasoline cap securely and wipe off any spilled gasoline before starting the engine as it may cause a fire or explosion.
- Disengage the self-propelled mechanism or drive clutch on units so equipped before starting the engine.
- 6. The blade control handle is a safety device. Never attempt to bypass its operation. Doing so makes the safety device inoperative and may result in personal injury through contact with the rotating blade. The blade control handle must operate easily in both directions.
- Never attempt to make a wheel or cutting height adjustment while the engine is running.
- Never operate the equipment in wet grass. Always be sure of your footing. A slip and fall can cause serious personal injury. Keep a firm hold on the handle and walk, never run. Mow only in daylight or in good artificial light.

9. For your safety, use the slope gauge included as part of this manual to measure slopes before operating this unit on a sloped or hilly area. If the slope is greater than 15^o as shown on the slope gauge, do not operate this unit on that area or serious injury could result.

OPERATION

- 1. Do not change the engine governor settings or overspeed the engine. Excessive engine speeds are dangerous.
- 2. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times as the rotating blade can cause injury.
- 3. Stop the blade when crossing gravel drives, walks or roads.
- 4. After striking a foreign object, stop the engine, remove the wire from the spark plug, and thoroughly inspect the mower for any damage. Repair the damage before restarting and operating the mower.
- If the equipment should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.
- 6. Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher or unclogging the chute. The cutting blade continues to rotate for a few seconds after the engine is shut off. Never place any part of the body in the blade area until you are sure the blade has stopped rotating.
- Before cleaning, repairing or inspecting, make certain the blade and all moving parts have stopped. Disconnect the spark plug wire, and keep the wire away from the spark plug to prevent accidental starting.
- 8. Do not run the engine indoors.
- Mow across the face of slopes, never up-and-down. Exercise extreme caution when changing direction on slopes. Do not mow excessively steep slopes. Always be sure of your footing. A slip and fall can cause serious personal injury.
- 10. Never operate mower without proper guards, plates or other safety protective devices in place.

MAINTENANCE AND STORAGE

- Check the blade and engine mounting bolts at frequent intervals for proper tightness.
- 2. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
- 3. Never store the equipment with gasoline in the tank inside of a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.
- 4. To reduce fire hazard, keep the engine free of grass, leaves, or excessive grease.
- Check the grass catcher bag frequently for wear or deterioration. For safety protection, replace only with new bag meeting original equipment specifications.



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IMPORTANT: This unit is shipped WITHC UT GASOLINE or OIL. After assembly, service engine with gasoline and oil as instructed in the separate engine manual packed with your unit.



NOTE: Reference to right or left hand side of the mower is observed from the operating position. Refer to parts identification on page 4 for location of parts when assembling the mower

ASSEMBLY INSTRUCTIONS

Tools Required for Assembly

- (1) 1/2" Wrench*
- (1) 5/16" Wrench or Nutdriver*
- (1) 7/16" Wrench*
- *Or one 6" Adjustable Wrench.



FIGURE 1.



UNPACKING

- 1. Remove the lawn mower from the carton by opening the top flaps and lifting the unit out. Be careful of the staples. Make certain all parts and literature have been removed from the carton before the carton is discarded.
- Disconnect and ground the spark plug wire against the engine. Check beneath the deck for any cardboard packaging. Remove if present.
- 3. Stretch out all control cables and place on the floor. Be careful not to bend or kink the cables at any time during assembly.
- 4. Remove page four from this manual and lay the contents of the hardware pack on the illustration for identification.

ATTACHING THE LOWER HANDLE (Hardware A)

The lower handle is mounted to the deck by one of two - methods. See figure 1.

- A. **Models 070 and 080**—Shoulder bolts, cupped washers and hex lock nuts secure the handle directly to the deck.
- B. Models 071, 072 and 082—Handle is secured to handle mounting brackets on top of the deck with hairpin clips.
- A. Line up the upper slotted hole in lower handle with the mounting hole on deck. Make certain the instruction label on the lower handle can be read from the operating position. Place shoulder bolt through
 lower handle and deck. See figure 2. Place cupped washer on the shoulder bolt, with the cupped side of the washer against the deck. Secure with hex lock nut.

NOTE

It may be necessary to bend the ends of the lower handle inward slightly to obtain a tight fit against the deck.



FIGURE 3.



FIGURE 4.





 B. Attach the lower handle by placing the bottom holes in the lower handle over the weld pins on the handle mounting brackets on the rear of the deck. Make certain the instruction label on the lower handle can be read from the operating position. Secure with hairpin clips in inner holes on weld pins. See figure 3.

NOTE There are two (2) holes in the handle mounting brackets. Place the hairpin clip in the inner hole for operation. Outer hole is for storage.



It may be necessary to bend the ends of the lower handle outward slightly to obtain a tight fit against the handle mounting brackets.

ATTACHING THE UPPER HANDLE (Hardware B)

1. Place the upper handle in position over the lower handle. The label on the throttle control housing and the control lever must be facing up.



The right hand side of the handle will be secured with the rope guide bolt. However, left handed operators may assemble the rope guide bolt to the left side of the handle for easier starting by following steps 2 and 3 and reversing the left and right hand instructions.

 Secure the left hand side of upper handle using the curved head bolt, split washer and hex nut as
 shown in figure 4.

 Insert the rope guide bolt through the right hand —side of upper and lower handle. See figure 5. Secure with split washer and hex nut, finger tight only.

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FIGURE 6.



- ATTACHING THE BRAKE CABLE
- The brake cable is attached to the engine, and has a "Z" fitting on the loose end. Route the brake cable below the lower handle. Place end of cable into the upper hole on the bottom of the control housing, and through the slot as shown. The angle of the plastic flange must be positioned downward as shown in figure 6. Be careful not to bend or kink the cable at any time.
- 2. Push the plastic fitting until it locks into the control housing.



Brake cable must be assembled as shown for proper blade brake operation.

 Hook the "Z" end of the brake cable into the hole in the blade control handle from the inside to the outside as shown in figure 7.

FIGURE 7.



FIGURE 8.—Tecumseh Engines

ATTACHING THE THROTTLE CABLE (For Briggs and Stratton Engines, Go To Next Page.) Tecumseh Engines Only:

- 1. Place the throttle control lever on the handle in FAST position.
- The throttle control cable is attached to the upper handle. Route the throttle control cable under the lower handle and inside the handle mounting bracket. Hook the "Z" end of the throttle control cable into the control lever on the engine as shown in figure 8.
- Loosen (do not remove) the screw on the cable clamp shown in figure 8. Slip the control casing under the clamp (cable must move freely beneath the clamp).
- 4. Place the control lever on the engine in the full open position by pushing it as far toward the rear of the unit as it will go. Tighten the screw on the cable clamp to secure the cable in this position.





ATTACHING THE THROTTLE CABLE (Hardware C) Briggs and Stratton Engines: Compare the engine on your mower to the engines shown in figure 9A to determine if it is a standard or a deluxe. Follow the instructions which pertain to your unit.

- 1. Using a 7/16" wrench, remove the screw on the -----engine shown in figure 9A.
- 2. Place the throttle control lever on the handle in FAST position.

Deluxe engine: Move throttle control lever until it stops in FAST position (**do not** push all the way forward to CHOKE position). See figure 9B.

3. The throttle control cable is attached to the upper handle. Route the throttle control cable under the lower handle and inside the handle mounting bracket. Hook the "Z" end of the throttle control cable into the hole in the control lever on the engine.



Standard engine: Hook the cable into the arm on the control lever on the engine which has two holes, using the **outside** hole as shown in figure 9C.

 Remove the screw on the cable clamp on the engine shown in figure 9B (deluxe engine) or 9C (standard engine). Slip the control casing under the clamp. Replace the screw, but do not tighten (cable must still move freely beneath the clamp).



Deluxe engine: The control casing goes under the clamp and above the screw as shown in figure 9B.

5. Deluxe engine: Slide the control lever on the engine as far toward the outside of the engine as it will go easily (just until resistance is felt) as shown in figure 9B. (Do not force it into the extreme outside position, which is the CHOKE position.) Tighten the screw to secure the throttle control cable in this position.

Standard engine: Place the control lever on the engine in the full open position by pushing it toward outside of the unit. Push the wire casing on the throttle control cable toward the control lever on the engine as shown in figure 9C as you tighten the screw on the cable clamp.

- 6. Loosen the screw on the clamp on the side of the engine. Secure the cable away from the muffler.
 Be careful not to bend or kink the cable. Tighten the screw.
- Secure cable casing to the front of engine with cable clamp provided in hardware pack and screw removed from engine in step 1 as shown in figure 9B or 9D. Do not overtighten.

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FIGURE 10.

Rope Guide Starter Bolt Handle

FIGURE 11.



FIGURE 12.

SECURING THE CABLES (Hardware E)

Secure all cables to the handle as follows.

- A. Insert posts on cable ties into holes provided on the handles, one on the upper handle and two on the lower handle. The holes may be either on the in-side or outside of the handles. See figure 10A.
- B. Secure the cables with the cable ties. See figure 10B.
- C. Trim excess ends of cable ties.

ATTACHING THE STARTER ROPE

- 1. The starter rope is inside the top of the engine. Additional rope may be wound around the starter handle. If so, unwind the rope from the handle.
- 2. With the spark plug wire disconnected and grounded, depress the blade control handle and pull the rope out of the engine.
- 3. Slip the starter rope into the rope guide bolt as _____shown in figure 11.
- 4. Tighten the hex nut on the rope guide bolt securely.

FINAL ASSEMBLY OF MOWER (Hardware D)

- 1. If plastic plug is needed and is not already assembled, insert plastic plug into hole in the top rear of the deck by slipping one end of plug into hole, then pressing down on the other end of plug. Use a soft hammer if necessary.
- The chute deflector on your mower is held in an upright position by a "V" block for shipping purposes only. This "V" block must be removed and discarded before the mower is put into operation.
 See figure 12.

To remove the "V" block, pull the spring-loaded chute toward the engine. Remove the "V" block and carefully lower the chute into operating position, keeping fingers out of the way.

- 3. Attach front hub caps (optional) to the wheels by lining up the four tabs on the hub caps with the four holes in the wheels. Push to lock in position.
- 4. Make certain **all** nuts and bolts are tightened securely.

CONTROLS



FIGURE 13.

BLADE CONTROL HANDLE



The blade control handle is located on the upper handle of the mower. See figure 13. The blade control handle must be depressed in order to operate the unit. Release the blade control handle to stop the engine and blade.



The blade will be rotating whenever the engine is running.

THROTTLE CONTROL

The throttle control is located on the side of the upper handle. It is used to regulate the engine speed.



The throttle control cannot be used to stop the engine.

RECOIL STARTER

The recoil starter handle is attached to the handle. See figure 13. Stand behind the unit in the operating position to start the unit.

OPERATION



FIGURE 14.

Keep hands and feet away from the chute area on cutting deck. See figure 14.

For shipping purposes your mower is set with the wheels in a low cutting height position. For best results raise the cutting position until it is determined which height is best for your lawn. See cutting height adjustment section.

GAS AND OIL FILL-UP

Service the engine with gasoline and oil as instructed in the separate engine manual packed with your mower. Read instructions carefully.



Never fill fuel tank indoors, with engine running or until the engine has been allowed to cool for at least two minutes after running.

TO START ENGINE AND ENGAGE BLADE

- 1. Attach spark plug wire to spark plug.
- 2. Deluxe Briggs and Stratton engines: Open fuel shut-off valve. See figure 15.



FIGURE 15.

3. Move the throttle control lever to FAST or START position.



On units with deluxe Briggs and Stratton engines, move throttle control lever to CHOKE position.

- 4. Tecumseh Engines Only: Prime engine εs instructed in the separate engine manual pεcked with your unit.
- Standing behind the unit, depress the blade control handle and hold it against the upper handle as shown. See figure 16.
- Grasp the recoil starter handle and pull back apidly, extending rope fully. Return it slowly to the rope guide bolt.
- 7. After engine starts, move throttle control to desired engine speed.



If any problems are encountered, refer to the Trouble Shooting Chart on page 17.



FIGURE 16.

TO STOP ENGINE AND BLADE

1. Release the blade control handle to stop the engine and blade.



The blade continues to rotate for a few seconds after the engine is shut off.

2. Disconnect the spark plug wire and ground it against the engine to prevent accidental starting while equipment is unattended.

USING YOUR ROTARY MOWER

Be sure that lawn is clear of stones, sticks, wire, or other objects which could damage lawn mower or engine. Such objects could be accidently thrown by the mower in any direction and cause serious personal injury to the operator and others.

Operate a new engine at intermediate speeds and light load for the first few hours as you would a new automotive engine.

For the best results, do not cut wet grass because it tends to stick to the underside of the mower, preventing proper discharge of grass clippings, and could cause you to slip and fall. New grass, thick grass or wet grass may require a narrower cut. Blade speed should be adjusted to the condition of the lawn.

The best mowing pattern is one that allows the clippings to discharge towards the uncut part of the lawn. This permits recutting of the clippings to further pulverize them. When cutting high weeds, discharge towards cut portion, then recut at right angles to first direction.

For best results, cut off one-third or less of the total length of the grass. Lawn should be cut in the fall as long as there is growth.

This mower is designed to be operated at full throttle to give you the best cut and do the most effective job of bagging the cut grass.

IMPORTANT

If you strike a foreign object, stop the engine. Remove wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower. Extensive vibration of the mower during operation is an indication of damage. The unit should be promptly inspected and repaired.

ADJUSTMENTS



Do not at any time make any adjustment to lawn mower without first stopping engine and disconnecting spark plug wire.

CUTTING HEIGHT ADJUSTMENT Units With Height Adjustment Brackets

An adjusting plate and thumb lever at each wheel position provides cutting height adjustment. Each adjusting plate has nine height positions. Height of cut will be changed when the thumb lever is moved from one hole to another. Simply depress the lever towards wheel and move wheel and lever assembly to desired position. All wheels must be placed in the same relative position. See figure 17.



FIGURE 17.

Units Without Height Adjustment Brackets

Adjustments may be made by removing and moving axle bolts to desired position. Cutting heights will be raised as axle bolts are moved to a lower hole and lowered as axle bolts are moved to a higher hole in the deck. All axle bolts must be mounted in the same relative position. Belleville washers must be assembled on the inside and outside of the deck so that the cupped side of the washers are against the deck. The spacers must be assembled between the rear wheels and the belleville washers. Refer to illustration on page 18.

THROTTLE

The throttle control wire assembly can be adjusted if necessary. Loosen the screw on the cable clamp closest to the control lever on engine. Adjust as instructed in step 5 (Briggs and Stratton Engines) or step 4 (Tecumseh Engines) of "Attaching the Throttle Control Cable" in Assembly Instructions.

CARBURETOR ADJUSTMENTS



If any adjustments are made to the engine while the engine is running (e.g. carburetor), keep clear of all moving parts. Be careful of heated surfaces and muffler.

Minor carburetor adjustments may be required to compensate for differences in fuel, temperature, altitude and load. To adjust carburetor, refer to the separate engine manual packed with your mower.



A dirty air cleaner will cause an engine to run rough. Be certain air cleaner is clean and attached to the carburetor before adjusting carburetor. Refer to the separate engine manual.

LUBRICATION



Always stop engine and disconnect spark plug wire before cleaning, lubricating or doing any kind of work on lawn mower.

Blade Control—Lubricate the pivot points on the blade control handle and the brake cable at least once a season with light oil. See figure 18. The blade control must operate freely in both directions.





Chute Deflector—The torsion spring and pivol point should be lubricated periodically with light oil to prevent any rust or binding. Deflector must work reely.

Wheels—Mower may be provided with ball bearing wheels. Lubricate at least once a season with light oil. Also, if the wheels are removed for any reason, lubricate the surface of the axle bolt and the inner surface of the wheel with light oil. A 4 oz. plastic bottle of light oil lubricant is available. Order part number 737-0170. Engine oil may also be used.

Engine—Follow engine manual for lubrication instructions.

Throttle—Periodically lubricate throttle contro lever and throttle wire assembly with a few drops of light oil for ease of operation.

MAINTENANCE

When tipping the unit, empty the fuel tank and keep engine spark plug side up.

TROUBLE SHOOTING

Refer to page 17 of this manual for trouble shooting information.

CUTTING BLADE

A. Removal for Sharpening or Replacement



Be sure to disconnect and ground the spark plug wire before working on the cutting blade to prevent accidental engine starting. Protect hands by using heavy gloves or a rag to grasp the cutting blade.

Remove the large bolt and lock washer which holds the blade and adapter to the engine crankshaft. Remove the blade and adapter from the crankshaft.

If the blade or blade adapter needs replacing, remove the two small bolts, lock washers and nuts which hold the blade to the adapter.



Periodically inspect the blade adapter for cracks, especially if you strike a foreign object. Replace when necessary.

B. Sharpening

Remove the cutting blade by following the directions of the preceding section.

When sharpening the blade, follow the original angle of grind as a guide. It is **extremely important** that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. An unblanced blade will cause excessive vibration when rotating at high speeds, may cause damage to the mower and could break, causing personal injury.

It is recommended that the blade always be removed from the adapter for the best test of balance. The blade can be tested by balancing it on a round shaft screwdriver. Remove metal from the heavy side until it balances evenly.

C. Reassembly

Before reassembling the blade and the blade adapter to the unit, lubricate the engine crankshaft and the inner surface of the blade adapter with light oil. Lubricating the bolt holes, bolts and inner surface of the nuts with light oil is also recommended. A 4 oz. plastic bottle of light oil lubricant is available. Order part number 737-0170. Engine oil may also be used.

When replacing the blade, be sure to install the blade with the side of the blade marked "Bottom" (or with part number) facing the ground when the mower is in the operating position.

Blade Mounting Torque

3/8" Dia. Bolt 375 in. lb. min., 450 in. lb. max. 5/16" Dia. Bolt 150 in. lb. min., 250 in. lb. max.

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

DECK

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

The deck may be cleaned by tilting the mower forward or on its side and scraping clean with a suitable tool or by washing with a stream of water from a garden hose.

Do not direct the stream of water at a hot engine as damage to the engine may result.

ENGINE

Refer to the separate engine manual for all engine maintenance instructions.

Maintain **engine oil** as instructed in the separate engine manual packed with your unit. Read and follow instructions carefully.

Service **air cleaner** every 25 hours under normal conditions. Clean every few hours under extremely dusty conditions. Poor engine performance and flooding usually indicates that the air cleaner should be serviced. To service the air cleaner, refer to the separate engine manual packed with your unit.

The **spark plug** should be cleaned and the gap reset once a season. Spark plug replacement is recommended at the start of each mowing season; check engine manual for correct plug type and gap specifications.

OFF-SEASON STORAGE

The following steps should be taken to prepare lawn mower for storage.

- 1. Clean and lubricate mower thoroughly as described in the lubrication instructions.
- 2. Refer to engine manual for correct engine storage instructions.
- 3. Coat mower's cutting blade with chassis grease to prevent rusting.
- 4. Store mower in a dry, clean area.



When storing any type of power equipment in an unventilated or metal storage shed, care should be taken to rustproof the equipment. Using a light oil or silicone, coat the equipment, especially cables and all moving parts.

HANDLE STORAGE

On units equipped with handle mounting brackets the handle may be placed in an upright position for storage.

Move hairpin clips to outer hole on weld pins. See figure 1. Press inward on the bottom of the lower handle and push forward. The handle will lock in this position.

To place the handle in the operating position, remove the starter rope from the rope guide bolt. Grasp the lower handle at the bottom, press inward slightly and tip the handle backward. Place the hairpin clips in the inner holes. With the spark plug wire disconnected and grounded, depress the blade control handle and pull the starter rope out from the engine. Slip the starter rope into the rope guide bolt.





models and all specifications shown do not necessarily apply to your model. Specifications subject to change without notice or obligation.



Trouble Shooting Chart

Symptom	Possible Causes	Corrective Action		
1 Engine fails to start	 A Blade control handle disengaged B Check fuel tank for fuel C Fuel shut-off valve closed (on units so equipped). D Spark plug lead wire discon- nected. E Throttle control lever not in the starting position F Faulty spark plug G Carburetor improperly ad- justed, engine flooded 	 A Engage blade control handle. B Fill tank if empty. C Open fuel shut-off valve. D Connect lead wire. E Move throttle lever to start position. F Clean, adjust gap or replace.† G Remove spark plug, dry the plug, crank engine with plug removed, and throttle in off position. Replace spark plug and lead wire and resume starting procedures. 		
	 H Old stale fuel I Engine brake engaged 	H Drain and refill with fresh fuel.I Follow starting procedure.		
2 Hard starting or loss of power	 A Spark plug wire loose B Carburetor improperly adjusted C Dirty air cleaner 	 A Connect and tighten spark plug wire. B Adjust carburetor.† C Clean air cleaner.† 		
3 Operation erratic	 A Dirt in fuel tank B Dirty air cleaner C Water in fuel supply D Vent in gas cap plugged E Carburetor improperly adjusted 	 A Remove the dirt and fill tank with fresh fuel. B Clean air cleaner.[†] C Drain contaminated fuel and fill tank with fresh fuel. D Clear vent or replace gas cap. E Adjust carburetor.[†] 		
4 Occasional skip (hesitates) at high speed	 A Carburetor idle speed too slow B Spark plug gap too close C Carburetor idle mixture ad- justment improperly set 	 A Adjust carburetor.† B Adjust to .030". C Adjust carburetor.† 		
5 Idles poorly	 A Spark plug fouled, faulty, or gap too wide B Carburetor improperly adjusted C Dirty air cleaner 	 A Reset gap to .030" or replace spark plug. B Adjust carburetor.† C Clean air cleaner.† 		
6 Engine overheats	 A Carburetor not adjusted properly B Air flow restricted C Engine oil level low (4 cycle engines) or insufficient oil in fuel mixture (2 cycle engines) 	 A Adjust carburetor.† B Remove blower housing and clean.† C Fill crankcase with the proper o or fuel mixture. 		
7 Excessive vibration	 A Cutting blade loose or unbalanced B Bent cutting blade 	 A Tighten blade and adapter. Balance blade. B Replace blade. 		

†Refer to separate engine manual packed with your unit. Note: For repairs beyond the minor adjustments listed above, contact your local authorized service dealer.



PARTS LIST FOR MODELS 070, 071, 072, 080 AND 082 ROTARY MOWERS

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART		PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	14320 14321		Control Handle Ass'y.—R.H. Control Handle Ass'y.—L.H.		39	736-0331		Bell-Wash39" I.D. x 1.13" O.D. (070 & 080)	
and a second			(Not Shown)		40	738-0509		Rear Axle Bolt (070 & 080)	
2	* *		Wheel Ass'y. Comp. (See		44	738-0102		Rear Axle Bolt (072 & 082)	
3	742-0123		Chart Below) 20" Blade (070 & 072)		41	750-0515		Spacer .511 I.D. x .70" O.D. (070 & 080) Cable Bracket	
	742-0125		22" Blade (080 & 082)		42 43	14924 728-0171		Cable Bracket	
4	746-0630 746-0631		Throttle Control Wire—39" Throttle Control Wire—43"†		43	746-0477	476		ee
	746-0632		Throttle Control Wire—53" ††		••			(070) ++ 39" GREEN S	ha.
5	749-0373 749-0372		Lower Handle (Chrome) Lower Handle (Painted)			746-0 478	476	49 [#] Control Cable—Blue (072, 080, 082)	ecou
6			Engine			746-0480		57" Control Cable-Redt Tea	421
7	14994	463	20" Deck Ass'y. (070)		45	710-0796		Truss Mach. Scr. #12 x 1.50"	0
	14995	463	20" Deck Ass'y. (072)		47	731-0817		Control Panel Half	
	14997		22" Deck Ass'y. (080)		48	731-0524		Control Disc Pin	
	14998	463	22" Deck Ass'y. (082)		49	731-0816		Clutch Panel Half	
8	710-0654		Hex Wash. Hd. TT-Tap Scr.		50	731-0528		Throttle Control Lever	
	1 10 1 1	400	3/8-16 x 1.00" Lg.		51	749-0536		Upper Handle (Chrome)	
9	14944	463	Chute Deflector Ass'y.		50	749-0538		Upper Handle (Painted)	
10	710-0289		Hex Bolt 1/4-20 x .50" Lg.*		52	710-0429		Hex "B" Tap Scr. #10 x .38"	
11	711-0555		Hinge Pin ¼" Dia. x 3.88 Lg.		53 55	751-0369		Casing Clamp Handle Mount Brkt. Ass'y.—	
13	726-0106 732-0253		Push Cap .25" Rod Torsion Spring		55	12935		L.H. (072 & 082)	
14	712-0255		Hex Nut 1/4-20 Thd.*			12936		Handle Mount Brkt. Ass'y	
15	736-0329		L-Wash. 1/4" I.D.*			12000		R.H. (Not Shown) (072 &	
16	11130		Deflector Hinge Plate					082)	
18	726-0240		Cable Tie	N	56	14578		Height Adjuster Ass'y.	
19	710-0671		Curved Carriage Bolt 5/16-18					Comp.—R.H. (072 & 082)	
			x 1.38″ Lg.			14579		Height Adjuster Ass'y.	
20	710-0842		Rope Guide Bolt					Comp.—L.H. (Not Shown)	
^ 21	712-0267		Hex Nut 5/16-18 Thd.*					(072`& 082)	
22	735-0639		Spark Plug Boot++		57	738-0507		Shoulder Bolt .500" Dia. x	
23	712-0429		Hex Ins. L-Nut 5/16-18 Thd.					.357 (072 & 082)	
			(070 & 080)		58	14832		Spring Lever Ass'y. w/Knob	
24	736-0242		Bell-Wash345" I.D. x .88"		-	45000		(072 & 082)	
0	700 0000		O.D. (070 & 080)		59	15262		Pivot Bar (072 & 082)	
25	738-0296		Shid. Bolt .437" Dia. x .268	· ·	60 61	15261		Index Plate (072 & 082)	
26	710.0000		(070 & 080)		61 62	714-0104		Hairpin Cotter (072 & 082)	
20	710-0888		Hex Bolt 5/16-24 x 1.00" Lg. (Grade 5) Special		62 63	710-0442		Casing Clamp†† Hex Self-Tap Scr. #8 x .62"	
27	710-0331		Hex Bolt 3/8-24 x 2.25" Lg.		66	710-0436		Hex Wash. Hd. Self-Tap Scr.	
<i>L'</i>	10-0001		(Grade 5)		00	10-0003		5/16-18 x .50" Lg. (072 &	
28	712-0123		Hex Nut 5/16-24 Thd.*					082)	
29	753-0348		Blade Adapter Kit		67	710-0227		Hex Wash. Hd. AB-Tap Scr.	
30	736-0217		L-Wash. 3/8" I.D.—H.D.					#8 x .38" Lg.	
31	736-0119		L-Wash. 5/16" I.D.*		68	12894		Cable Clip	
32	14846		Retainer Strip		69	777-5776		Instruction Label—Handle	
33	710-0776		Hex Wash. Hd. AB-Tap Scr.		70	777-5773		Control Label—Throttle	
			1⁄4″ x .62″ Lg.		71	753-0430		Kit—Control Housing Comp.	
34	731-0575		Rear Flap Ass'y.		72	736-0356		Belleville Wash39 I.D. x	
35	712-0798		Hex Nut 3/8-16 Thd.*					1.4 O.D. (072 & 082)	
36	736-0105		Bell-Wash400" I.D. x .88"		73	731-0564		Plastic Plug	
37	738-0213		Front Axle Bolt (070 & 080)		—	8070-000-		Hardware Pack (070 & 080)	
1	738-0102		Front Axle Bolt (072 & 082)		—	8072-000-	7	Hardware Pack (072 & 082)	

**WHEEL CHART

† Op	† Optional Parts			**WHEEL C	HART			
	Plastic Rim			Steel Rim				
	ANTINA .			Tread Type				
			Size	Twinline	Waffle	Bearings		
			7 x 1.5	734-0639	734-0637	Ball Brgs. 3/8" I.D741-0267, 1/2" I.D741-0484,		
Siz			8 x 1.75	734-0643	734-0645	Spacer-750-0434 (Use Axie Boit 710-0347)		
7 x 1.	5 734-0840	734-1161	7 x 1.5	734-0876	734-0893	1/2 " I.D. Plastic Brg. 741-0262		
8 x 1.	75 734-0841	734-1162	8 x 1.75	734-0661	734-0812	(2 per Wheel)		

†† Deluxe Briggs & Stratton Engine

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QUANTIUM ENGINE TAKES 746.04 CONTROL CABLE

PARTS INFORMATION

POWER EQUIPMENT PARTS AND SERVICE

Parts and service are available through the authorized service firms I sted below. All orders should specify the model number of your unit, part numbers, description of parts and the quantity of each part required.

BRIGGS AND 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—Gasolin** Briggs & Stratton or Tecumseh Lauson.

NOTE: If any parts are found to be missing or defective upon assembly of this unit, write to advise the factory so that immediate replacement can be made.

ALABAMA	BIRMINGHAM
ARKANSAS	2625 4th Ave. S3 5233 NORTH LITTLE ROCK 5301 Roundtop Drive Box 368, Rt. 472117 PORTERVILLE
Sutton's Lown Mower Shen	5201 Boundton Drivo
Sutton's Lawn Mower Shop	
	Box 368, Rt. 4
CALIFORNIA	PORTERVILLE
	. 75 North D Street93257
COLORADO	DENVER
Spitzer Industrial Products Co	. 6601 N.
•	Washington St 8 1229
FLORIDA	JACKSONVILLE
FLORIDA Radco Distributors	4909 Victor St
	Box 5459
	HIALEAH
Small Eng. Dist.	. 7995 W. 26th Court 3 3016
	EAST POINT
East Point Cycle & Key Inc.	. 2834 Church St 3)344
ILLINOIS	LYONS
	. 8615 Ogden Ave 6)534
INDIANA	ELKHART
Parts & Sales Inc.	. 2101 Industrial Pkwy 43516
IOWA	DUBUQUE
Power Lawn & Garden Equip	. 2551 J.F. Kennedy 52001
LOUISIANA	NEW ORLEANS 8330 Earhart Blvd7)118 TAKOMA PARK 6867 New Hampshire Ave
Suhren Engine Co	. 8330 Earhart Blvd 7)118
MARYLAND	TAKOMA PARK
Center Supply Co.	6867 New Hampshire
	Ave 2)912
MASSACHUSETTS Morton B. Collins Co	SPRINGFIELD
Morton B. Collins Co	300 Birnie Ave 01107
MICHIGAN	
Loronz Sonijoo Co	LANSING 2500 S. Pennsylvania 43910
	MOUNT CLEMENS
Dawar Cavinment Dist	. 340 Hubbard
MINNESOTA	HOPKINS 420 Excelsior Ave. W55343
Hance Distributing Inc.	AZU EXCEISIONAVE. W 55345
MISSOURI	EARTH CITY
Oscar Wilson Engine & Parts	. 4159 Shoreline Dr63045
	KANSAS CITY 3117 Hoimes St64109
Automotive Equip. Service	. 3117 Holmes St 64109
	ST. JOSEPH
Ross-Frazer Supply Co	. 8th and Monterey 64503
	ST. LOUIS
Henzler, Inc.	. 2015 Lemay Ferry Rd63125
NEW JERSEY	ALLOWAY
Piersons	. Canal St
NEW MEXICO	ALBUQUERQUE
Spitzer Eng. & Parts Co.	ALBUQUERQUE 1023 Third Ave. N.W
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NEW YORK	CARTHAGE
Gamble Dist., Inc.	. West End Ave
NORTH CAROLINA	GREENSBORO
NORTH CAROLINA Dixie Sales Company	335 N. Green
OHIO	CARROLL
Stebe's Mid-State Mower Supply	Box 366, 71 High St 43112
	CLEVELAND 7900 Lorain Ave
Bleckrie, Inc.	7900 Lorain Ave
	WADSWORTH
National Central	687 Seville Rd
	YOUNGSTOWN
Burton Supply Co.	1301 Logan Ave
	Box 929
OREGON	PORTI AND
Kenton Supply Co PENNSYLVANIA EECO Inc	8216 N Denver Ave 97217
	HABBISBURG
EECO Inc	4021 N 6th St. 17110
	WILLOW GROVE
Thompson Bubber Co	. 850 Davisville Rd 19090
	PITTSBURGH
	. 11125 Frankstown Rd. 15235
	PUNXSUTAWNEY
	. R.D. 2
	SCRANTON
Scranton Auto Ignition Co	. 1133-35 Wyoming Ave 18509
TENNEQQEE	
Ace Distributors	. 2103 Magnolia
	MEMPHIS
	. 3035-43 . ellbrook 381
TEXAS	DALLAS
Marr Brothers, Inc.	423 E. Jefferson
	FORT WORTH
Woodson Sales Corp.	. 6733 Baker Blvd.
•	Hwy. 10
	SAN ANTONIO
Engine House Inc.	. 8610 Botts Lane
-	P.O. Box 17867 78217
UTAH	SALT LAKE CITY
Powered Products	1661 N Beck St 84116
VIRGINIA	ASHLAND
RBI Corp	. 101 Cedar Ridge Dr 23005
WASHINGTON	SEATTLE
Equip. Northwest	. 1410 14th Ave
Wisconsin Magneto Inc	MILWAUKEE 4727 N. Teutonia St 53209
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WARRANTY PARTS AND SERVICE POLICY (0686)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 not 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 All claims MUST be substantiated with the following INCLUDES: information: 1. Model Number, Serial Number and/or Data Code of unit in-1. Replacement of Missing Parts on new equipment. volved. 2. Replacement of Defective Parts within the warranty period. 2. Date unit was purchased or first put into service. 3. Repair of Defects within the warranty period. 3. Date of Failure. 4. Nature of Failure. MTD PRODUCTS INC • P.O. BOX 36900 • CLEVELAND, OHIO 44136