10¢

Operating/Service Instructions

SELF-PROPELLED

ROTARY MOWER

Model No.

122-370-033

IMPORTANT

SAFE OPERATION PRACTICES - WALK BEHIND MOWERS

TRAINING

1. Read the Operating and Service Instruction Manual carefully. Be thoroughly familiar with the controls and proper use of the equipment.
2. Never allow children to operate a power mower.
3. Keep the area of operation clear of all persons, particularly small children, and pets.

PREPARATION

1. Thoroughly inspect the area where the equipment is to be used and remove all stones, sticks, wire, bones and other foreign objects.

   Do not operate equipment when barefoot or wearing open sandals. Always wear substantial footwear.
3. Check fuel before starting engine. Do not fill gasoline tank indoors, when engine is running, or while engine is still hot. Wipe off any spilled gasoline before starting engine.
4. Disengage self-propelled mechanism or drive clutch on units so equipped before starting engine (motor).
5. Never attempt to make a wheel height adjustment while engine (motor) is running.
6. Mow only in daylight or in good artificial light.
7. Never operate equipment in wet grass. Always be sure of your footing; keep a firm hold on the handle and walk; never run.

OPERATION

1. Do not change engine governor settings or overspeed engine.
2. Do not put hands or feet near or under rotating parts. Keep clear of discharge opening at all times.
3. Stop blade(s) when crossing gravel drive, walks or roads.
4. After striking a foreign object, stop the engine (motor), remove wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.
5. If the equipment should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning of trouble.
6. Stop engine (motor) whenever you leave the equipment, before cleaning mower housing, and when making any repairs or inspections.
7. When cleaning, repairing or inspecting, make certain blade and all moving parts have stopped. Disconnect spark plug wire and keep wire away from plug to prevent accidental starting.
8. Do not run engine (motor) indoors.
9. Shut engine (motor) off and wait until blade comes to a complete stop before removing grass catcher and/or unclogging chute.
10. Mow across the face of slopes, never up-and-down. Exercise extreme caution when changing direction on slopes. Do not mow excessively steep slopes.
11. Always disconnect electric mowers (line operated) before cleaning, repairing, or adjusting.
12. Never operate mower without proper guards, plates or other safety protective devices in place.
13. Keep washout ports and other mower housing service openings closed when mowing.

MAINTENANCE AND STORAGE

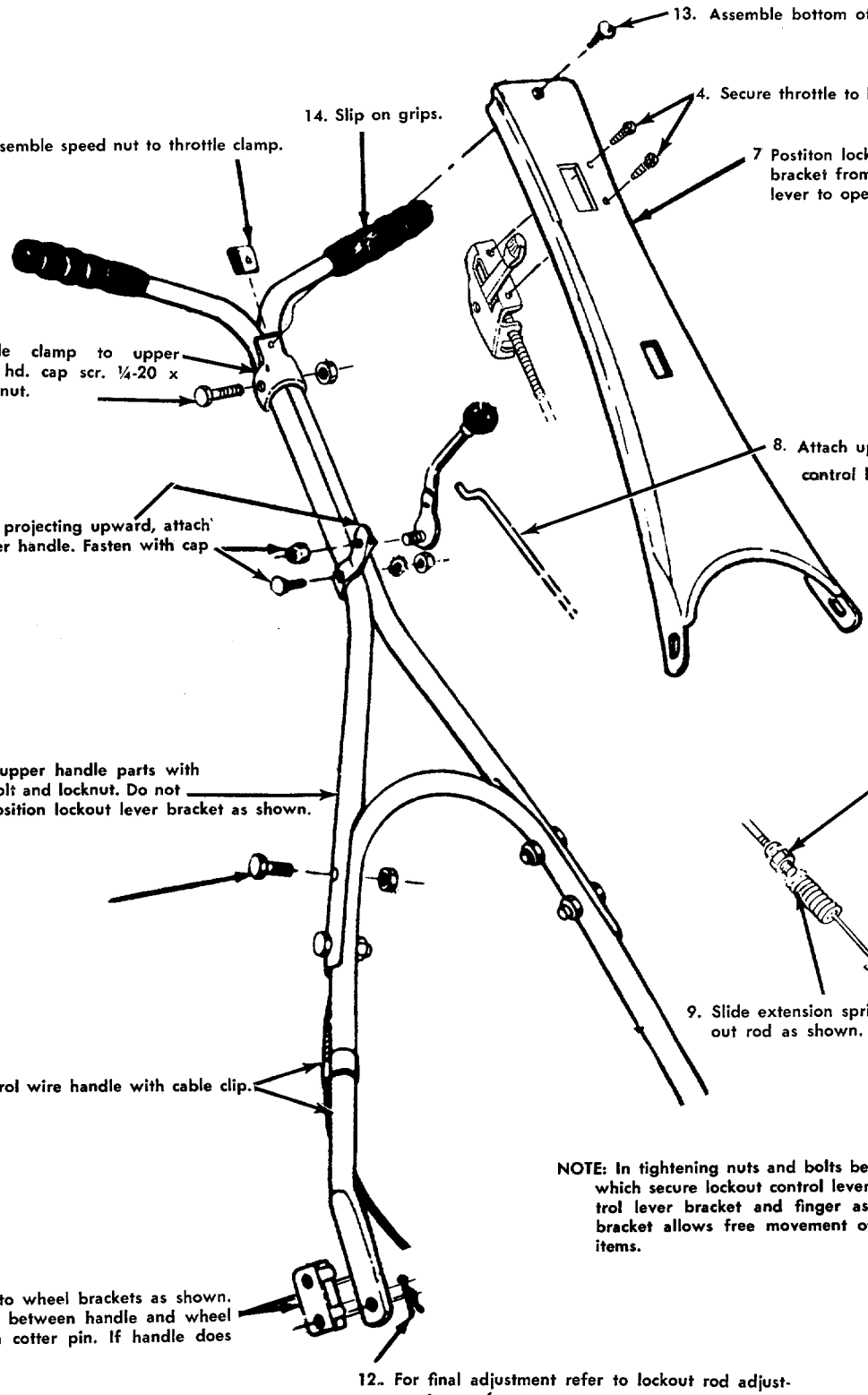
1. Check blade and engine mounting bolts at frequent intervals for proper tightness.
2. Keep all nuts, bolts, and screws tight to be sure equipment is in safe working condition.
3. Never store equipment with gasoline in the tank inside of a building where fumes may reach an open flame or spark. Allow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

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

FORM NO. 770-2522

ASSEMBLY INSTRUCTIONS

NOTE: Follow instructions starting with number 1 and continue through number 14.



13. Assemble bottom of handle panel to handle.

4. Secure throttle to handle panel.

14. Slip on grips.

6. Assemble speed nut to throttle clamp.

7 Postiton lockout control lever on lockout lever bracket from left. Secure with locknut but allc lever to operate freely.

5. Assemble throttle clamp to upper handle with hex hd. cap scr. ¼-20 x 1½" lg. and hex nut.

8. Attach upper end of rod to lockout control lever as shown.

3. With lockout bracket projecting upward, attach upper handle to lower handle. Fasten with cap screws and locknuts.

2. Assemble upper handle parts with carriage bolt and locknut. Do not tighten. Position lockout lever bracket as shown.

10. Screw elastic stop nut on the lockout rod approximately 1¼" from end of rod. Pull spring back down and hook into pivot link.

9. Slide extension spring onto threaded end of lockout rod as shown.

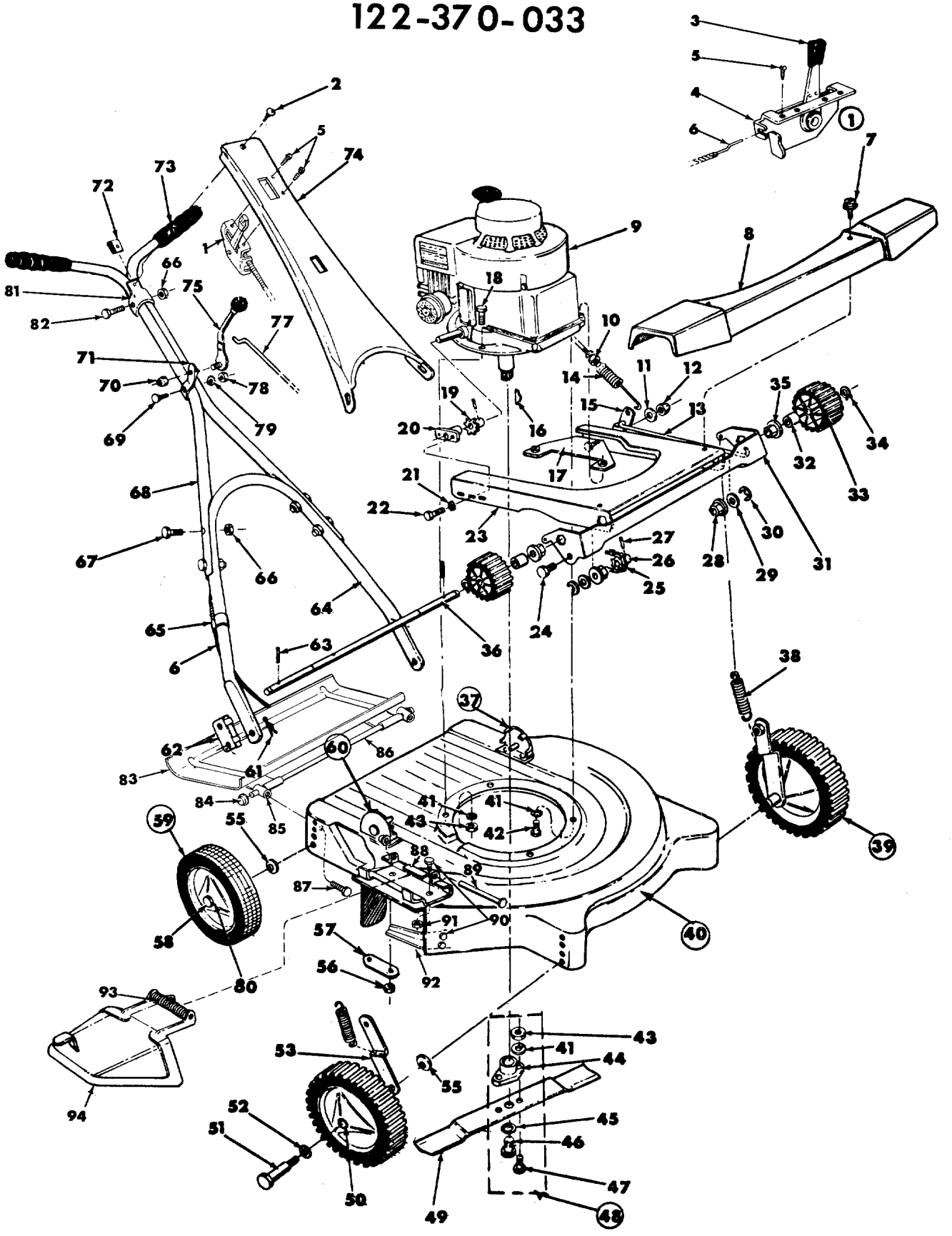
11. Secure control wire handle with cable clip.

NOTE: In tightening nuts and bolts be sure that those which secure lockout control lever to lockout control lever bracket and finger assembly to deck bracket allows free movement of each of these items.

1. Fasten lower handle to wheel brackets as shown. Keep handle brackets between handle and wheel brackets. Secure with cotter pin. If handle does

12. For final adjustment refer to lockout rod adjustment page 6.

122-370-033


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PARTS LIST FOR ROTARY MOWER MODEL NO. 122-370-033

REF. NO.	PART NO.	DESCRIPTION
1	11597	Throttle Control Complete
2	710-473	Truss Hd. Mach. Screw 10-24 x ½" Lg.
3	305-7470	Knob—Throttle Control
4	11600	Throttle Control Bracket
5	710-407	Slotted Hex Hd. Self Tap Scr. 8-32 x .50" Lg.
7	710-148	Hex Hd. Slotted Thd. Cut Scw. 8-32 x ⅜" Lg.*
8	10913	Drive Cover
9	———	Engine
10	712-324	Elastic Stop Nut Thd.*
11	736-300	Flat Washer
12	712-116	Elastic Locknut ⅜-24 Thd.*
13	10395	Clutch Rod
14	732-184	Extension Spring
15	10394	Link
16	714-365	Hi Pro Key
17	10381	Engine Bracket Assembly
18	710-158	Hex Hd. Cap Scw. 5/16-24 x 1¼" Lg.*
19	10377	Sprocket Assembly
20	748-183	Bearing Support
21	736-222	External Lock Washer ¼" Scw.*
22	710-441	Hex Hd. Cap Scw. ¼-28 x ½" Lg.*
23	10370	Pivot Plate
24	711-110	Shoulder Bolt—Special
25	713-135	Chain W/Master Link #48 x 26" Lg.
26	10378	Sprocket Assembly
27	715-247	Roll Pin 3/16 Dia. x 1" Lg.*
28	748-227	Hex Bearing
29	736-860	Flat Washer*
30	716-106	"E"-Ring ⅝ Shaft
31	10372	Drive Support
32	310-2265	Sleeve
33	10914	Drive Pinion
34	716-106	"E"-Ring ⅝ Shaft
35	748-227	Hex Bearing
36	711-435	Shaft
37	310-8389	Handle Mount Bracket—L.H.
38	732-181	Extension Spring
39	503-9392	Front Wheel Complete
40	11659	Deck Assembly
41	736-119	Spring Lock Washer 5/16 Scw.*
42	710-442	Hex Hd. Cap Scw. 5/16-18 x 1½" Lg.*
43	712-123	Hex Nut 5/16-24 Thd.*
44	748-189	Blade Adapter
45	736-217	Spring Lock Washer ⅜ Screw Heavy Duty*
46	710-459	Hex Hd. Cap Scw. ⅜-24 x 1½" Lg. Heat Treated
47	710-117	Hex Hd. Cap Scw. 5/16-24 x 1" Lg. Heat Treated
48	10769	Blade Adapter Kit
49	742-125	Blade 22"
50	748-125	Sintered Bearing—Front
51	711-430	Axle Bolt—Front Only
52	736-160	Flat Washer*
53	10379	Link Assembly
55	736-300	Flat Washer ⅜ Scw.*
56	710-107	Hex Centerlock Nut ¼-20 Thd.*
57	310-8405	Reinforcement Plate
58	738-213	Axle Bolt—Rear Only
59	501-9392	Rear Wheel Complete
60	310-8388	Handle Mount Bracket—R.H.
61	714-507	Cotter Pin*
62	10430	Handle Stop Bracket
63	715-110	Roll Pin 3/16-Dia. x 1¼" Lg.*
64	310-8398	Lower Handle
65	746-128	Cable Clip
66	712-107	Hex Center Lock Nut ¼-20 Thd.*
67	710-106	Hex Hd. Cap Scw. ¼-20 x 1¼" Lg.*
68	310-9364	Upper Handle
69	710-256	Carriage Bolt ¼-20 x 1½" Lg.*
70	712-324	Elastic Stop Nut ¼-20 Thd.*
71	10474	Lockout Bracket
72	712-526	Speed Nut
73	305-7071	Grip—Black
74	11605	Handle Panel
75	310-8169	Lock Out Lever Assembly
76	305-8132	Ball—Knob
77	711-~~517~~	Lock Out Rod S17 39"
78	712-287	Hex Nut ¼-20 Thd.*
79	736-222	External Lock Washer ¼ Scw.*
80	305-7006	Fortiflex Bearing—Rear
81	310-7861	Throttle Clamp
82	710-606	Hex Hd. Cap Screw ¼-20 x 1½" Lg.*
83	11163	Protective Shield
84	726-106	Push-on Flange Palnut
85	711-554	Hinge Pin
86	11145	Hinge Rod
87	710-513	Hex Hd. Cap Scr. ¼-28 x ⅝" Lg. (NYLock)
88	11130	Adapter Plate
89	711-555	Pivot Pin
90	710-289	Hex Hd. Cap Scr. ¼-20 x .50" Lg.*
91	712-107	Hex Center Locknut ¼-20 Thd.
92	11152	Internal Bar
93	732-253	Torsion Spring
94	11141	Chute Deflector

350—Highland Green

When ordering parts, if color or finish is important, use the appropriate color code shown above (e.g. Highland Green—11659 (350)).

The engine is not under warranty by the mower manufacturer.

If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines – Gasoline."



This mower should be broken in following the procedure described in the break-in instructions. The added effort here will double the service life of the unit. Particular attention should be paid to the notes on alignment.

When operating this mower, unnecessary or excessive engaging of the drive pinions with the wheels should be avoided. This is achieved by minimizing the raising and lowering of the handle during the mowing operation. Failure to observe this operating rule can reduce the service life of the front tires and drive pinions substantially. When engaging the self-propelled mechanism, a slight forward push on the mower as the drive pinions and the gear tread tires mesh will add to smoother and quieter operation. In addition to a smoother operation, it will add substantially to the service life of both the tires and the drive pinions.

HANDLE ASSEMBLY PRECAUTIONS

Although the handle is of a simple design, difficulty has been encountered in its assembly. Certain precautions concerning its assembly must be heeded. The handle must be assembled as shown in the diagram. Trouble arises when certain parts are put together improperly.

A. Lockout control lever must be mounted as shown in the illustration.
B. The lockout control lever bracket must be mounted with the projection upward as shown in the illustration.
C. If lower handle is too narrow to lock into handle bracket, spread as needed.

BREAK-IN INSTRUCTIONS

1. Before starting the engine, lubricate all the bronze bearings on the drive shaft. The same oil which is used for the engine may be used for this.

   Check the lockout control for proper operation. See HANDLE ASSEMBLY PRECAUTIONS.

   Check drive assembly alignment. When the lockout control lever is moved to the Self-Propelled position (as shown in diagram), the black nylon drive pinions should mesh simultaneously with the gear tread tires. The lockout control lever should move from Self-Propelled position easily.

OPERATION

1. Service engine with gas and oil. See Engine Manual packed with lawn mower for complete instructions for care and maintenance of engine. READ DIRECTIONS CAREFULLY.
2. Lubricate bronze bearings on drive shaft.
3. Check drive assembly for correct alignment (see break-in instructions.)
4. When ready to start engine, place lockout control lever into free wheeling position. This is done by snapping the lockout control lever back. Start engine in accordance with instructions in Engine Manual. After engine starts, move throttle control lever on handle to the desired engine speed.
5. Lockout control lever may now be moved forward for self-propelled operation. When the lockout control lever is in the forward position, the drive pinions engage with the gear tread tires and forward drive results.
6. Temporary free wheeling is achieved by depressing the handle and raising front wheels slightly off the ground. Self-propelled drive is resumed when handle is released. . . Engine is stopped by placing control lever on handle into "Stop" position.

LUBRICATION

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

WHEELS – The bearing on the rear wheels of your lawn mower are made of Lifetime Fortiflex. No lubrication is required. Lubricate front wheel bearing as needed.

THROTTLE – Periodically lubricate throttle control lever and throttle wire assembly with a few drops of light oil (S.A.E. No. 10 or 20) for ease of operations.

BRONZE BEARINGS – Periodically lubricate all bronze bearings with a few drops of light oil (S.A.E. No. 10 or 20) to minimize friction.

ENGINE – Follow Engine Manual for lubrication instructions.

CHUTE DEFLECTOR – The torsion spring and pivot point should be lubricated periodically with oil to prevent any rust or binding up. Deflector must work freely.

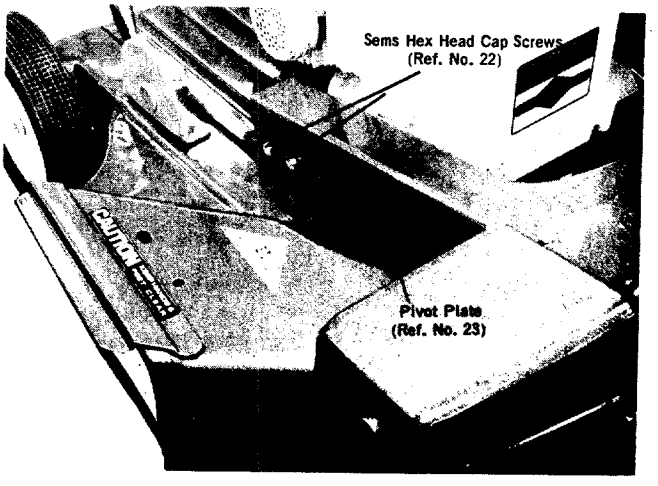
PROTECTIVE SHIELD – The pivot points on the protective shield should be lubricated periodically with oil to prevent any rust or binding up.

ADJUSTMENTS

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

CHAIN ADJUSTMENT

1. Loosen (do not remove) two hex head cap screws. (See illustration below.)
2. Pull pivot plate forward.
3. Tighten cap screws and check chain tension. Repeat adjustment if necessary.



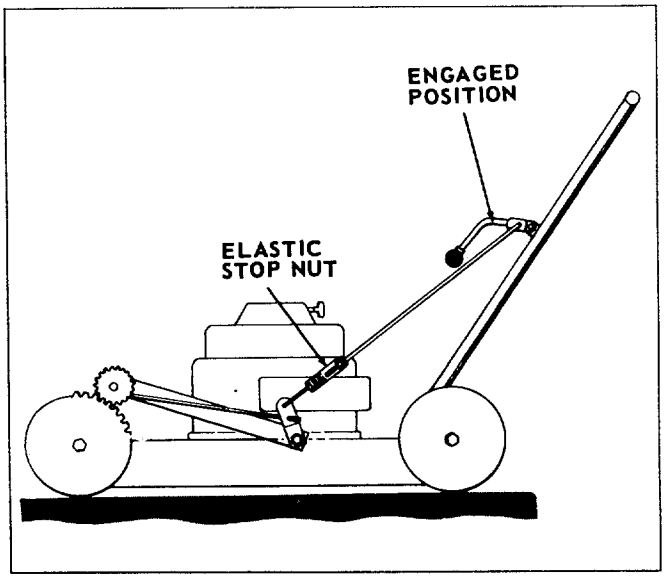
CUTTING HEIGHT – Adjustment may be made by removing and moving wheel studs to desired position. Cutting heights will be raised as wheel studs are moved to a lower hole and lowered as wheel studs are moved to a higher hole in the deck. All wheel studs must be mounted in a relative position to the deck.

THROTTLE – If adjustment becomes necessary, the throttle control wire assembly can be reset as follows.

1. Loosen, but do not remove, screw securing throttle control wire assembly at engine.
2. Move throttle control lever on handle to "Fast" position.
3. Move lever, to which control wire is fastened at engine, to full open position and retighten screw to secure throttle control wire assembly.

LOCKOUT ROD ADJUSTMENT

1. Engage lockout control lever. (See illus. below.) All tension should be released from spring.
2. If tension still remains on spring, disconnect spring from pivot link, slide spring up the lockout rod and back elastic stopnut off one turn.
3. Reassemble tension spring and again check to be sure spring is free from tension. Repeat step 3 until the correct condition is obtained.



MAINTENANCE

CUTTING BLADE – The blade may easily be removed for grinding or replacement as follows:

1. Remove bolt and lockwasher holding blade and blade adapter to engine crankshaft.
2. Remove blade and blade adapter from engine crankshaft.
3. Remove two bolts, lockwashers and nuts holding blade

When sharpening 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 unbalanced blade will cause excessive vibration when rotating at high speeds and may cause damage to the mower.

Upon reassembly, make certain all parts are assembled properly and tightened securely.

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 corrosion and cause an uneven discharge of grass clippings at the next cutting.

The deck may be cleaned by tilting the mower forward or on its left side and scraping clean with a suitable tool or by washing with a stream of water from a garden hose.
CAUTION: Do not direct the stream of water at a hot engine as damage to the engine may result.

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

1. Clean and lubricate mower thoroughly as described in the preceding instructions.
2. Refer to engine manual for correct engine storage instructions.
3. Coat mower's cutting blade with chassis grease to prevent rusting.
4. Place blocks under deck to raise tires clear of floor.
5. Store mower in a dry, clean area.

USING YOUR ROTARY MOWER

For best results do not cut wet grass because it tends to stick to the underside of the mower thus preventing proper discharge of grass clippings. If wet grass must be cut, reduce engine speed and walking speed to help distribute the clippings more effectively.

New grass should be treated as wet grass, otherwise a normal walking speed is about the right pace for efficient mowing.

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.

Lawn should be cut in the fall as long as there is growth.

GRASS CATCHER Model No. 192-003 is available as optional equipment for the mower shown in this manual.

WARNING.

1. The mower should not be operated without the entire grass catcher or chute deflector in place.
2. The mower should not be operated without the protective shield on the rear of the deck in place.

NOTE:

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

For replacement bags, use only factory authorized replacement bag No. 764-119.

✸ **IMPORTANT**

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

WARRANTY

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

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

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

PARTS INFORMATION

MOWER, TILLER, SNOW THROWER AND TRACTOR PARTS

Mower, tiller, snow thrower and tractor parts are available through the authorized service firms listed below. All orders should specify the model number of your unit, parts numbers, description of parts and the quantity of each part required.

ENGINE PARTS AND SERVICE

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

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

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

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

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

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

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

Bullard Supply
2409 Commerce Street
Houston, Texas 77003

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

R. T. Clapp Co.
2016 Magnolia Ave., N. E.
Knoxville, Tennessee 37917

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

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

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

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

Gamble Distributors
West End Avenue
Carthage, New York 13619

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

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

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

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

Kenton Supply
8216 North Denver Avenue
Portland, Oregon 97217

Kimber's Inc.
615 W. Genesee Street
Syracuse, New York 13204

Marr Brothers
423 E. Jefferson
Dallas, Texas 75203

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

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

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

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

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

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

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

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

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

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

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

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

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

Suhren Engine
8330 Earhart Blvd.
New Orleans, Louisiana 70118

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

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