Owner's Operating Service Instruction Manual

Model No. 116-530A

- ASSEMBLY
- OPERATION
- REPAIR PARTS

22" HI WHEEL ROTARY MOWER

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

Please note that the chute deflector on your mower is in an upright position. It is held in that position by a shipping block. This block is used for shipping purposes only. It must be removed and discarded before your mower is put into operation.



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 adjustments.

OPERATION

- 1. Before starting engine, check LUBRICATION IN-STRUCTIONS.
- 2. Check lockout control handles for proper operation. If too great a pressure is needed to operate these controls, damage can be done to both the mechanism and the rods. Readjust so only slight pressure is needed to operate both the blade engaging control and the self-propelled lockout control. See ASSEMBLY INSTRUCTIONS Step 9.
- 3. Service engine with gasoline and oil. See engine instructions for complete care and maintenance of engine. READ DIRECTIONS CAREFULLY.
- 4. Be sure engine crankcase is filled to capacity with proper grade of oil.
- 5. Move both control handles to "OFF" position.
- 6. Move throttle control lever to "CHOKE" position.
- 7. Crank engine. Move throttle control lever to "FAST" position as soon as engine fires. Use choke as needed to keep engine running during warm up period.

8. Put blade into motion by moving blade control handle to "ON" position.

To engage the blade with the engine running ...

- a. Move the throttle control lever to "FAST" position.
- b. Engage the blade engagement handle SLOWLY.
- c. Adjust engine speed.
- 9. A brief break-in period is essential to insure maximum engine and mower life. This consists of running the engine at half speed for a period of time required to use one tank of gasoline. It is also recommended to change crankcase oil after the first five hours of operation or as operating conditions dictate. Always check oil before operating the mower. BE SURE CRANKCASE IS FULL.
- 10. Proper lubrication must be maintained at all times.
- 11. Appropriate clothing should be worn when cutting brush or heavy weeds. Safety shoes and safety glasses are highly recommended.
- 12. The engine is stopped by moving the throttle control lever to "STOP" position.

ADJUSTMENT

- 1. Handles may be adjusted by changing the position of the lower support mounting holes. When this change is made, it may also be necessary to check the adjustment of control rod. See Step 9 in AS-SEMBLY INSTRUCTIONS
- 2. Control rod adjustments are made as shown in AS-SEMBLY INSTRUCTIONS Steps 9 and 12.
- 3. Cutting height adjustment is made by removing and moving axle bolts to the desired positions. All axle bolts must be mounted in the same relative position to the deck. When wheels are mounted to the deck, the crown shape washers must be assembled with the crown away from the deck. This is necessary to prevent the axle bolts from loosening.
- 4. If throttle adjustment becomes necessary, the throttle control wire may be reset as follows:
 - a. Loosen, but do not remove, screw securing throttle control wire assembly at engine.
 - b. Move throttle control lever on handle to "CHOKE" position.
 - c. Move lever to which control wire is fastened to engine to full choke position. Retighten screw to secure throttle control wire assembly.

LUBRICATION



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

- 1. Wheels—Front wheel bearings are of self-lubricating Fortiflex. They require no lubrication. Rear wheels of Lifetime graphoil bearings require little lubrication. A light film of oil applied to these bearings will reduce normal friction.
- 2. Throttle—Periodically lubricate throttle control lever and entire length of throttle wire assembly with a few drops of SAE 30 engine oil for ease of operation.
- 3. Engine—Follow engine manual for lubrication instructions. Check oil level before each mowing.
- Friction point between idler bracket assembly (Ref. No. 18 on page 10) and deck should be greased once each season with a multi-purpose grease.
- 5. Blade Spindle Assembly—The Blade Spindle Assembly is equipped with a grease fitting. Use grass discharge chute for access to the fitting located under the deck. Use multi-purpose grease. Lubricate PRIOR to initial use and every 25 hours thereafter. Caution: Be sure spark plug wire is disconnected and grounded.



FILL AND DRAIN OIL FROM OIL FILL PLUG.

Always disconnect spark plug cable during repairs, refueiing or changing oil. Engine oil may be drained through oil filler opening by tilting the mower on its side. Change oil after first 5 hours of operation while engine is warm. Thereafter, change oil every 25 hours of operation while engine is warm.

- 6. Protective Shield The pivot points on the protective shield should be lubricated periodically with oil to prevent any rust or binding up.
- 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.

MAINTENANCE



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

1. Cutting Blade—Remove all nuts and bolts holding the blade to the blade hub.

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 reassembling, 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 accumulates. 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 next cutting.

The deck may be cleaned by tilting the mower backward or on its 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.

- 3. Belt replacement may be made as follows:
 - a. Remove blade spindle cover.
 - b. Remove front belt guard.
 - c. Remove blade tension spring.
 - d. Loosen belt on bracket of idler bearing assembly.
 - e. Remove bracket lever assembly.
 - f. Remove damaged or worn belt.
 - g. Place new belt on engine pulley. Do not bend belt guard pins. Belt should be inside of pins.
 - h. Work belt to front and mount on blade spindle pulley. Replace front belt guard.
 - i. Replace brake lever assembly.
 - Slip belt on idler pulley between pulley and belt bracket.
 - k. Replace blade tension spring.
 - I. Move blade lockout handle to "ON" position.
 - m. Position belt bracket on idler pulley to clear the tightened belt. Secure belt bracket in position.
 See drawing on page 2.
 - n. Replace blade spindle cover.



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

- 4. Storage—The following steps should be taken to prepare the lawn mower for storage:
 - a. Clean and lubricate mower thoroughly as described in the preceeding instructions.
 - b. Refer to engine manual for correct engine storage instructions.
- c. Coat mower's cutting blade with multi-purpose grease to prevent rusting.
- d. Place blocks under deck to raise tires clear of floor.

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 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 angle to first direction.

Lawns should be cut in fall as long as there is growth.





116-530A

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

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PARTS LIST FOR MODEL 116-530A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1			Engine	
2	746-0128		Cable Clip for 7/8" Tubing	
3	07861		Clamp Bracket	
4	710-0136		Hex Scr. ¼-20 x 1.75" Lg.*	
5	08376		Lockout Brkt. Ass'y.	
6	712-0526		Speed Nut #10-24	
7	712-0107		Hex Center L-Nut 1/4-20 Thd.	
8	08378		Clamp Bracket	
9	09354		Upper Handle (2-Req'd)	
10	720-0157		Grip	
11	07889		Plastic Ball	
12	08373		Lockout Lever Ass'y with	
			Plastic Ball	
13	711-0180		Control Rod	
14	736-0108		Fl. Wash510 I.D. x .750	
4 5	710 0117		O.D.	
15	712-0117		Hex Cent. L-Nut 1/4-28 Thd.	
16	712-0107		Hex Center L-Nut 1/4-20 Thd.	
	710-0606		Hex Scr. 1/4-20 x 1.50 Lg.	
18 19	710-0606		Hex Scr. 1⁄4-20 x 1.50" Lg.*	
	712-0107		Hex Center L-Nut 1/4-20 Thd.	
20	08327		Lower Handle Support-L.H.	
21 22	712-0181 738-0234		Hex Top L-Nut 3/8-16 Thd.	
22	09372		Shld. Scr500" Dia. x .295	
23 24	710-0412		Pivot Bracket Hex Scr. 1/4-28 x .75" Lg. Gr. 5	
	711-0179		-	
25 26	710-0209		Adjustable Ferrule	
20 27	09362		Hex Sems Scr. 3/8-16 x .62	
28	712-0107		Lower Handle	
	710-0102		Hex Center L-Nut ¹ / ₄ -20 Thd.	
30	08328		Hex Scr. ¼-20 x 2.50" Lg.* Lower Handle Support—R.H.	
	710-0158		Hex Scr. 5/16-24 x 1.25"	
	714-0365		#6 Hi-Pro Key 5/32 x 5/8 Dia.	
	746-0171		Throttle	
34	11815 —	463	Control Panel	
35	710-0227		Hex Wash. Hd. AB-Tapp Scr. #8 x .38" Lg.	
36	710-0192		Truss Mach. Scr. #10-24 x .38	1
37		463	Belt Trap Ass'y.	

*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.

(463-Top Flite Red)

When ordering parts, if color or finish is important, use the appropriate color code shown at left. (e.g. Top Flite Red Finish—11815 (463)

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."



116-530A





PARTS LIST FOR MODEL 116-530A

REF. NO.			DESCRIPTION	NEW PART
1	09373		Control Rod	
	712-026	2	Hex Ins. Jam Nut 3/8-24 Thd.	
.3	04563		Belt Clip	
4	736-030	0	FI. Wash.	
4 5 6 8	756-019	9	Flat Idler with Flange	
6	12581	-463	Frame Ass'y.	
8	736-017	0	Special L-Wash. 5/16" Scr.	
9	07386		Fl. Wash406" I.D. x 1.25"	
			O.D. x .164	
	736-016	-	Spring L-Wash. 3/8" Scr.	
11	710-015	52	Hex Scr. 3/8-24 x 1.00" Lg.	
			H.T.	
	712-018		Hex Top L-Nut 3/8-16 Thd.	
	08324		Belt Guard	
16	736-032	9	Spring L-Wash. 1/4" Scr.*	
17	712-028	7	Hex Nut 1/4-20 Thd.*	
18	12278		ldler Brkt. Ass'y. w. Brake Shoe	
19	09925		Sheave Ass'y.—4" Dia. (Blade Spindle)	
20	736-092	1	Spring L-Wash. 1/2" Scr.*	
21	712-020	0	Hex Ins. Nut 1/2-20 Thd.	
	09371		Brake Lever	
23	736-046	3	FI. Wash296 I.D. x .62" O.D. x .059	
24	738-023	4	Shoulder Scr500" Dia. x .295	
25	754-010	9	"V"-Belt ½" x 43" Lg.	
	732-015		Blade Tension Spring	
27	756-020	6	Engine Pulley 4.00" O.D.	
28	712-012	3	Hex Nut 5/16-24 Thd.	
29	726-011	1	Push Cap	

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116-530A

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



PARTS LIST FOR MODEL 116-530A

\frown	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.		DESCRIPTION	NEW PART
	1	710-01	16	Hex Scr. 5/16-18 x 2.00"		25	714-03	365	#6 Hi-Pro Key 5/32 x 5/8" Dia	
	2	710-01	58	Hex Scr. 5/16-24 x 1.25" Lg.*		26	712-01	23	Hex Nut 5/16-18 Thd.*	
	3		-463	Frame Ass'y.		27	736-01	99	L-Wash. 5/16" Scr.*	
	4	710-02	209	Hex Sems Scr. 3/8-16 x .62"		28	742-01	25	22" Blade	
				Lg.*		29	710-01	17	Hex Scr. 5/16-24 x 1.00" H.T	
	5	710-05	567	Hex Sems Scr. 1/4-28 x 5/8" Lg.		30	710-04	159	Hex Scr. 3/8-24 x 1.50" Lg H.T.	•
	6	712-01	07	Hex Cent. L-Nut 1/4-20		31	736-02	217	Spring L-Wash. 3/8" Scr	
			-463	Deck Ass'y22 in.		51	100-04	-17	H.D.	•
		11193		Protective Shield Ass'y		32	07919		Scalp Plate	
				Comp.		33	10769		Blade Adapter Kit	
	9	718-01	32	Oil Cap		34	712-01		Hex Nut 5/16-24 Thd.*	
	10	741-01		Ball Brg504 I.D. x 1.38 Dia.		35	736-01		L-Wash. 5/16" Scr.*	
	11	738-01	14	Shoulder Scr498" Dia. x	÷	36	712-02		Hex Nut 5/16-18 Thd.*	
				4.755"		37	736-01		Spring L-Wash. 5/16" Scr.*	
		11679	-463	Chute Deflector Ass'y.		38	712-01		Hex Nut 5/16-18 Thd.*	
	13	732-02	253	Torsion Spring		39	12281	1 de la	Blade Reinforcement Plate	
		726-01	06	Push Cap		40	712-02	267	Hex Nut 5/16-18 Thd.*	
			-463	Adapter Plate		41	736-01	19	L-Wash. 5/16" Scr.*	
		711-05	555	Pivot Pin		42	08253		Bearing Housing	с ж
		10769		Blade Adapter Kit		43	741-09		Ball Bearing	
	18	734-04	39	16" Rear Wheel Ass'y		44	08253		Bearing Housing	
,				Comp.		45	710-01	92	Truss Hd. Mach. Scr. 10-24	x
	19	734-01		16" Rear Wheel—Less Tire					.38 Lg.	
		734-03		Semi Pneumatic Tire 16 x 1.75		46		-452		
		741-01		Ball Brg38 I.D.		47	712-05		Speed Nut #10-24	
\frown	21	710-04		Hex Scr. 3/8-16 x 2.00" Lg.*		48	11679	463		
		734-06		Front Wheel Ass'y. Comp.					Comp.	
х. П		736-01		Belleville Washer		49	710-02	289	Hex Scr. ¼-20 x .50	
	24	738-02	251	Blade Spindle					-	

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Find it Fast In The Yellow Pages



The manufacturer DOES NOT recommend the use of any accessory on this rotary mower other than those manufactured by MTD Products Inc.





After striking 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.

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.

ALABAMA BIRMINGHAM	
ALABAMA BIRMINGHAM Auto Electric & Carburetor Co2625 4th Ave. S 3523	3
ARKANSAS NORTH LITTLE ROCK	
Sutton's Lawn Mower Shop Rt. 4, Box 368	7
Mity Mite Motors, Inc 2515 Towson Ave 7290	1
CALIFORNIA SAN BERNARDINO	
Lawn Mower Supply Co 25608 E. Baseline 9241 SAN FRANCISCO	U
I.W. Jewett Co	7
SACRAMENTO	
Luttig & Severson 2030 28th St	
South Denver Lawn Equip 527 West Evans 8022	3
CONNECTICUT SUFFIELD	0
The Jones & Ramsey Co 850 Thompsonville Rd. 0607 FLORIDA JACKSONVILLE	0
Radco Distributors	6
CORAL GABLES	
Moz-All of Florida, Inc 365 Greco Ave 3314 GEORGIA EAST POINT	0
GEORGIA EAST POINT East Point Cycle & Key 2834 Church St 3034	4
ILLINOIS LYONS	
Keen Edge Co	14
INDIANA ELKHART Parts & Sales Inc 2101 Industrial Pkwy4651	
CORYDON	
Brown Equip. Dist., Inc 110 Beech St4711 IOWA DUBUQUE	Z
Remort awn & Garden Equin 2551 E Kennedy 5200)1
KANSAS WICHITA	
Hixon, Inc)4
LOUISIANA NEW ORLEANS Suhren Engine Co	8
MARYLAND TAKOMA PARK	-
Center Supply Co	2
MASSACHUSETTS SPRINGFIELD Morton B. Collins Co 300 Birnie Ave 0110	77
MICHIGAN MOUNT CLEMENS	
Power Equipment Dist	13
LANSING Lorenz Service Co 2500 S. Pennsylvania 4890	n
MINNESOTA MINNETONKA	
Hance Distributing Inc 11212 Wayzata Blvd	43
MISSISSIPPI BILOXI	
Biloxi Sales & Service, Inc 506 Caillavet St 3953 MISSOURI KANSAS CITY	53
Automotive Equip Service 3117 Holmes St 6410)9
Henzler, Inc	~~
Henzler, Inc	25
NEBRASKA OMAHA R.P.W., Inc	27

BRIGGS & STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts ar service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing *Engines* ______ *Gasoline*, Briggs & Stratton or Tecumseh Lauson ______

NEW YORK	CARTHAGE
Gamble Dist., Inc	
	SYRACUSE
Kimber's, Inc	115 N. Geddes St 13204
	ROCHESTER
Henry W. O'Neil&	Associates 410 N. Goodman St 14609
NORTH CAROLINA	GREENSBORU
Dixie Sales Comp	any
S-state Mandauana C	GOLDSBORO :515 N. George St 27530
OHIO	WADSWORTH
Number Commun	CLEVELAND
Bieckrie, Inc	
	CARROL
Stebe's Mid-State	Mower Supply Box 366 43112
	WILLARD
Sunshine Wholesa	le Tire Outlet Route 224 44890
	MANSFIELD
OKLAHOMA	Garden Supply1114 Lexington Ave 44903 MUSKOGEE
Vietory Meters I	nc,
Ada Auto Supply	ORTLAND
OREGON	PORTLAND
Kenton Supply Co)
	LANCASTED
PENNSYLVANIA	LANCASTER
Raub Supply Co.	James & Mulberry Sts17604
Raub Supply Co.	PITTSBURGH
Raub Supply Co. Bluemont Co	PITTSBURGH 11125 Frankstown Rd. 1521
Raub Supply Co. Bluemont Co TENNESSEE	PITTSBURGH 11125 Frankstown Rd., 1521 KNOXVILLE
Raub Supply Co. Bluemont Co TENNESSEE	James & Mulberry Sts17604 PITTSBURGH 11125 Frankstown Rd1523 KNOXVILLE rvice 2423 Broadway, N.E37917
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Raub Supply Co. Bluemont Co TENNESSEE Master Repair Set Memphis Cycle & American Sales & TEXAS Marr Brothers, In Bullard Supply C Catto & Putty, In Woodson Sales C UTAH A-1 Engine & Mo VERMONT Vermont Appliand VIRGINIA RBI Corp WASHINGTON Bailey's Rebuild WEST VIRGINIA Young's, Inc WISCONSIN	James & Mulberry Sts 17604 PITTSBURGH 11125 Frankstown Rd 1521 KNOXVILLE rvice rvice 2423 Broadway, N.E37917 MEMPHIS Supply Co

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

All claims MUST be substantiated with the following information:

- 1. Replacement of Missing Parts on new equipment.
- 2. Replacement of Defective Parts within the warranty period.
- 3. Repair of Defects within the warranty period.
- 1. Model Number of unit involved.
- 2. Date unit was purchased or first put into service.
- 3. Date of failure.
- 4. Nature of failure.