

HABAN

owners
manual

MODEL NO.

621-805
621-807
621-903
621-905
623-007
623-009

SERIAL NO.

226780 & UP

CAUTION:

Read Rules for
Safe Operation
and Instruction
Carefully



THREE POINT HITCH 54" & 60" ROTARY MOWER ATTACHMENTS

- Set-Up
- Operation
- Maintenance
- Repair Parts

Haban Mfg. Co., Racine, Wis.

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RULES FOR SAFE OPERATION

1. Know the controls and how to stop quickly. READ THE OWNER'S MANUAL.
2. Do not allow children to operate the vehicle. Do not allow adults to operate it without proper instruction.
3. Do not carry passengers. Keep children and pets a safe distance away.
4. Always wear substantial footwear. Do not wear loose fitting clothing that could get caught in moving parts.
5. Keep your eyes and mind on your tractor, mower and the area being cut. Don't let other interests distract you.
6. Do not attempt to operate your tractor or mower when not in drivers seat.
7. Always get on or off your tractor from the operators left hand side.
8. Clear the work area of objects which might be picked up and thrown.
9. Disengage all attachment clutches and return speed control lever to neutral before attempting to start the engine.
10. Disengage power to attachments and stop the engine before leaving the operator's position.
11. Disengage power to mower, stop the engine before cleaning, making an adjustment or repairs.
12. Disengage power to attachments when transporting or not in use.
13. Take all possible precautions when leaving the vehicle unattended, such as disengaging the power-take-off, lowering the attachments, returning drive control lever to neutral, setting the parking brake, stopping the engine, and removing the key.
14. Do not stop or start suddenly when going uphill or downhill. Mow up and down the face of slopes (not greater than 15°); never across the face.
15. Reduce speed on slopes and make turns gradually to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.
16. While going up or down slopes choose a speed low enough to negotiate the slope without stopping. To reduce speed, move drive control lever toward neutral position.
17. Never mow in wet or slippery grass, when traction is unsure or at a speed which could cause a skid.
18. Stay alert for holes in the terrain and other hidden hazards.
19. Do not drive too close to creeks, ditches and public highways.
20. Exercise special care when mowing around fixed objects in order to prevent the blades from striking them. Never deliberately run tractor or mower into or over any foreign object.
21. Never place hands or feet under the mower, in discharge chute or near any moving parts while tractor or mower are running. Always keep clear of discharge chute.
22. Use care when pulling loads or using heavy equipment.
 - a. Use only approved drawbar hitch points.
 - b. Limit loads to those you can safely control.
 - c. Do not turn sharply. Use care when backing.
 - d. Use counterweight or wheel weights when suggested in the owner's manual.
23. Watch out for traffic when crossing or near roadways.
24. When using any attachments, never direct discharge of material toward bystanders nor allow anyone near the vehicle while in operation.
25. Handle fuel with care - it is flammable.
 - a. Use approved fuel containers.
 - b. Never remove the cap of the fuel tank or add fuel to a running or hot engine, or fill the fuel tank indoors. Wipe up spilled fuel.
 - c. Open doors if the engine is run in the garage - exhaust fumes are dangerous. Do not run the engine indoors.
26. Keep the vehicle and attachments in good operating condition, and keep safety devices in place.
27. Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition.
28. To reduce fire hazard, keep the engine free of grass, leaves or excessive grease.
29. The vehicle and attachments should be stopped and inspected for damage after striking a foreign object, and the damage should be repaired before restarting and operating the equipment.
30. Do not change the engine governor settings or overspeed the engine.
31. When using the vehicle with mower, proceed as follows:
 - a. Mow only in daylight or in good artificial light.
 - b. Never make a cutting height adjustment while the engine is running if the operator must dismount to do so.
 - c. Shut the engine off when removing grass or unclogging chute.
 - d. Check the blade mounting bolts for proper tightness at frequent intervals.



LOOK FOR THIS SYMBOL TO POINT OUT IMPORTANT SAFETY PRECAUTIONS. IT MEANS—ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED.

Haban Manufacturing Company

INDUSTRIAL MACHINERY — OUTDOOR POWER EQUIPMENT — AGRICULTURAL IMPLEMENTS

2100 NORTHWESTERN AVENUE, RACINE, WI 53404

TELEPHONE: (414) 637-8388

CABLE ADDRESS: HABAN RACINE, WI, U. S. A

HABAN LIMITED WARRANTY

WHOLE GOODS

All new Haban equipment is warranted by Haban Manufacturing Company to the original retail purchaser only, to be free from defects in material and workmanship under normal use and service for a period of one year from date of purchase. (This period is limited to 180 days if product is purchased for commercial, institutional, industrial, rental or demonstrator use.) This warranty does not apply to engines manufactured by Briggs and Stratton, Tecumseh and Kohler or transmissions manufactured by Peerless. Warranties with respect to these components are provided by their respective manufacturers and copies of such warranties are delivered with each new product.

NEITHER HABAN MANUFACTURING COMPANY NOR ANY COMPANY AFFILIATED WITH IT MAKES ANY WARRANTY, REPRESENTATIONS OR PROMISES AS TO THE QUALITY OR PERFORMANCE OF ITS PRODUCTS OTHER THAN THOSE SET FORTH HEREIN.

IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE TO THE EXTENT APPLICABLE SHALL BE LIMITED IN DURATION TO ONE YEAR. THE ONLY REMEDIES THE PURCHASER HAS IN CONNECTION WITH THE BREACH OR PERFORMANCE OF ANY WARRANTY ON "HABAN" PRODUCTS ARE THOSE SET FORTH HEREIN. IN NO EVENT WILL THE DEALER, OR ANY AUTHORIZED DISTRIBUTOR, HABAN MANUFACTURING COMPANY, OR ANY COMPANY AFFILIATED WITH HABAN MANUFACTURING COMPANY BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (NOTE: SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OF OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.)

THIS WARRANTY DOES NOT COVER A) PRODUCTS ALTERED OR MODIFIED IN WAYS NOT APPROVED BY HABAN MANUFACTURING COMPANY, B) DEPRECIATION OR DAMAGE CAUSED BY NORMAL USE, ACCIDENTS, LACK OF REASONABLE AND NECESSARY MAINTENANCE AS SPECIFIED FOR PRODUCTS, IMPROPER MAINTENANCE, IMPROPER PROTECTION IN STORAGE OR IMPROPER PARTS, OR IMPROPER USE OR ABUSE OF PRODUCT, C) NORMAL MAINTENANCE AND REPLACEMENT OF SERVICE ITEMS SUCH AS CUTTING BLADES, V-BELTS, AND DRIVE CHAINS WHICH ARE NOT DEFECTIVE AND D) TRANSPORTATION, MAILING AND SERVICE CALL CHARGES AND WARRANTY SERVICE.

Haban Manufacturing Company's obligation under this warranty is limited to the repair or replacement, at its option by any authorized "Haban" equipment dealer, of any part found to be defective in material or workmanship without charge for parts and labor.

In order to obtain warranty service, the owner is responsible for:

- 1) Providing proof of purchase documentation, owner registration or copy of bill of sale.
- 2) Informing any authorized "Haban" equipment dealer of the defect and making the product available for repair. (Charges for pickup, delivery and service calls are not covered by this warranty.)

This warranty does not cover defects, malfunctions or failures caused by:

- 1) Use of unauthorized accessories or attachments.
- 2) Lack of reasonable and necessary maintenance as specified in the Owners Manual.

The selling dealer makes no warranty of his own on any item warranted by Haban Manufacturing Company and makes no warranty on other items unless he delivers to purchaser a separate written warranty certificate specifically warranting the item. The dealer has no authority to make any representation or promise on behalf of Haban Manufacturing Company to modify the terms or limitations of this warranty in any way.

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

If further information is needed to obtain warranty performance, the purchaser should contact the Haban Manufacturing Company home office located at 2100 Northwestern Avenue, Racine, Wisconsin 53404.



UNPACKING

The rotary mower and all necessary parts are packed in one carton, as shown in Figure 1.

SET UP



THE ROTARY MOWER ATTACHMENT CONSISTS OF THE FOLLOWING: (See Fig. 1)

- A. Rotary Deck Assembly with PTO Half
- B. Male PTO Half
- C. Bag of Parts
- D. Caster Wheel Assemblies (2)
- E. Three Point Hitch Mast

BEFORE STARTING TO ASSEMBLE ROTARY MOWER TO TRACTOR, REMOVE SPARK PLUG WIRES FROM PLUGS AND KEY FROM TRACTOR IGNITION SWITCH.

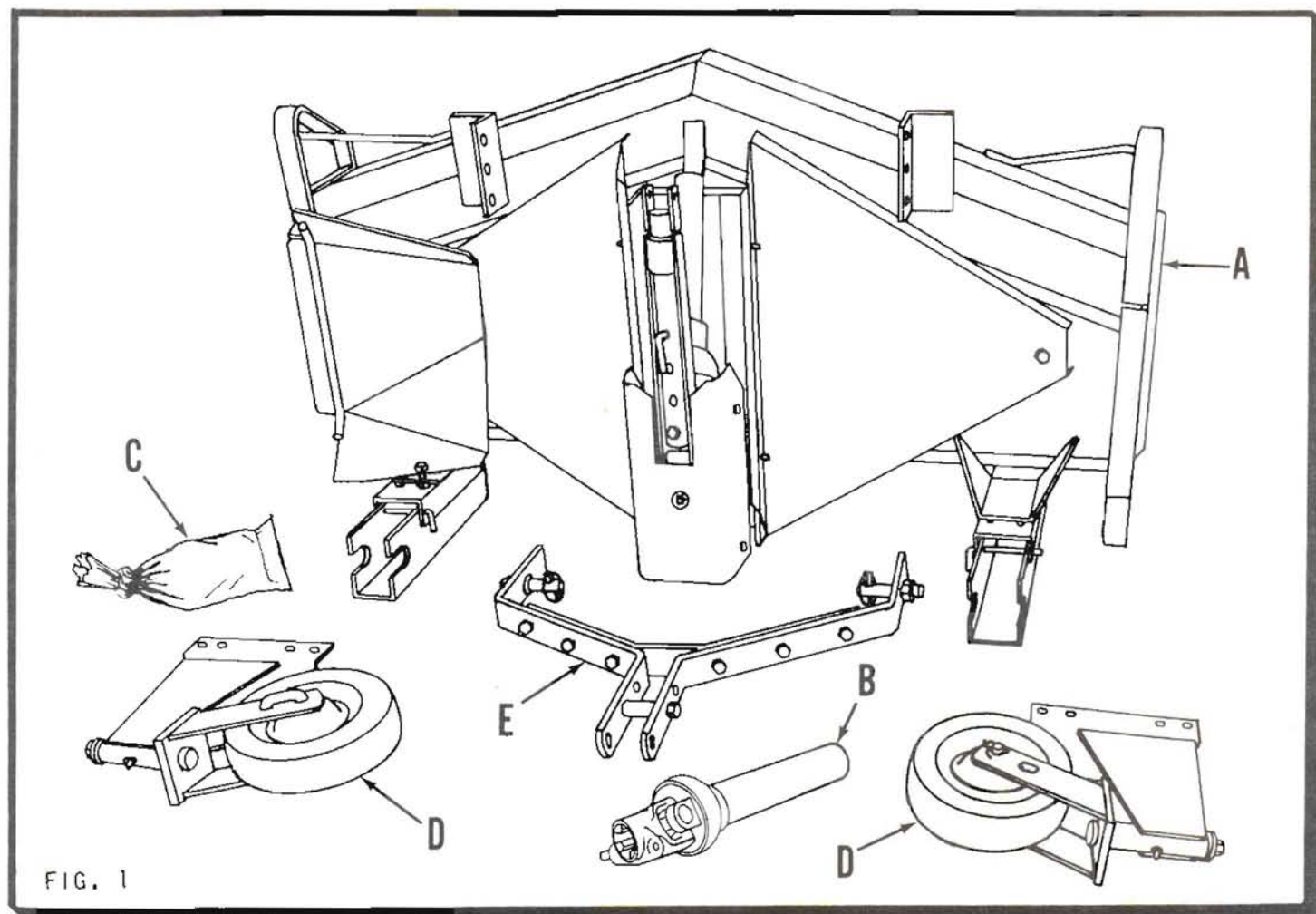


FIG. 1

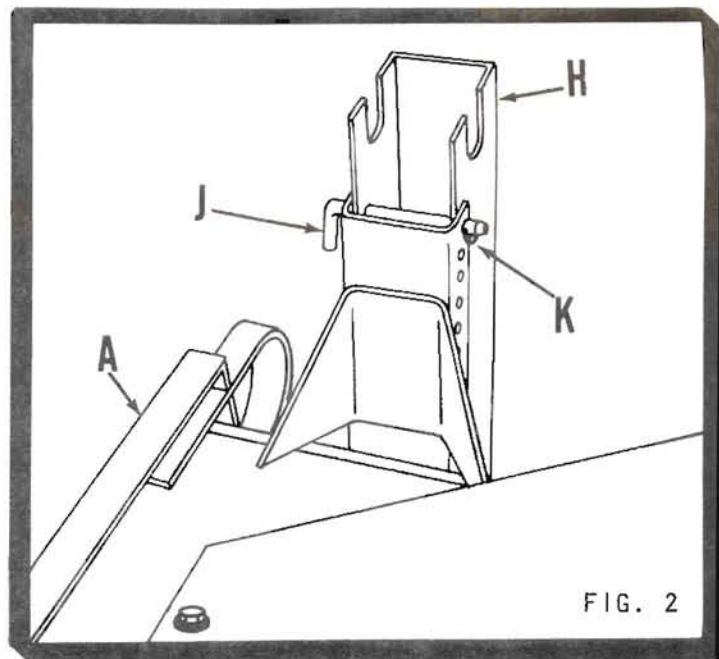
TOOLS NEEDED FOR ASSEMBLING ARE:

- 1. 15/16" Open End Wrench.....(2)
- 2. 3/4" Open End Wrench.....(2)
- 3. 1/2" Open End Wrench.....(2)

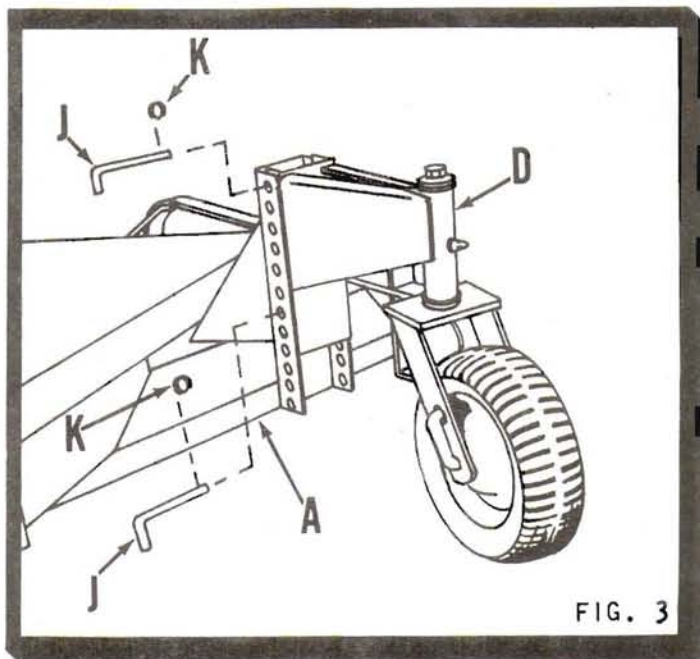
SET UP

PREPARATION OF ROTARY MOWER FOR MOUNTING

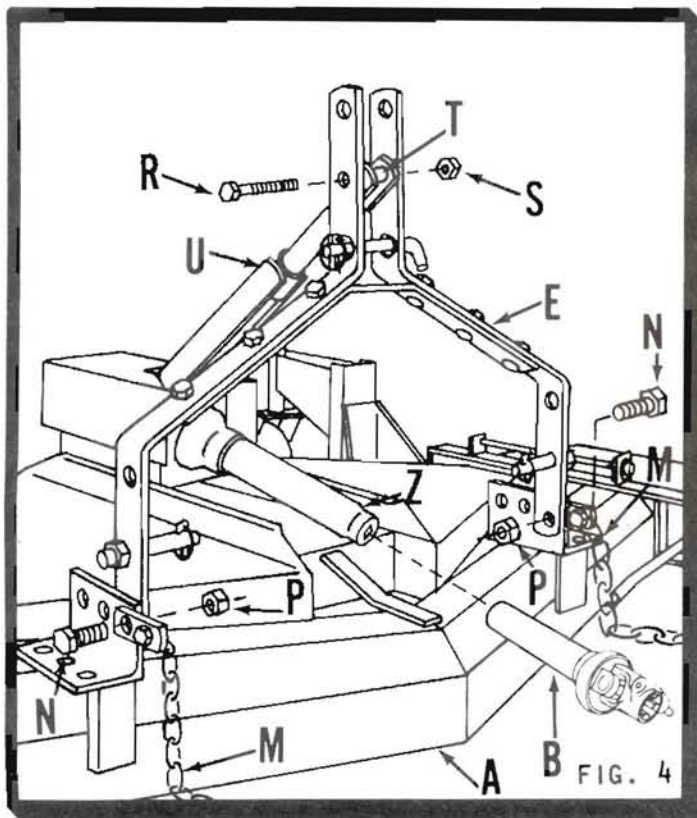
1. Disassemble shipping channels (H) from rear of rotary deck assembly (A) by removing locating pins (J) and spring clip (K). (See Fig. 2)



2. Assemble caster wheels (D) to rear of rotary deck assembly (A) with locating pins (J) and spring clip (K). (See Fig. 3)



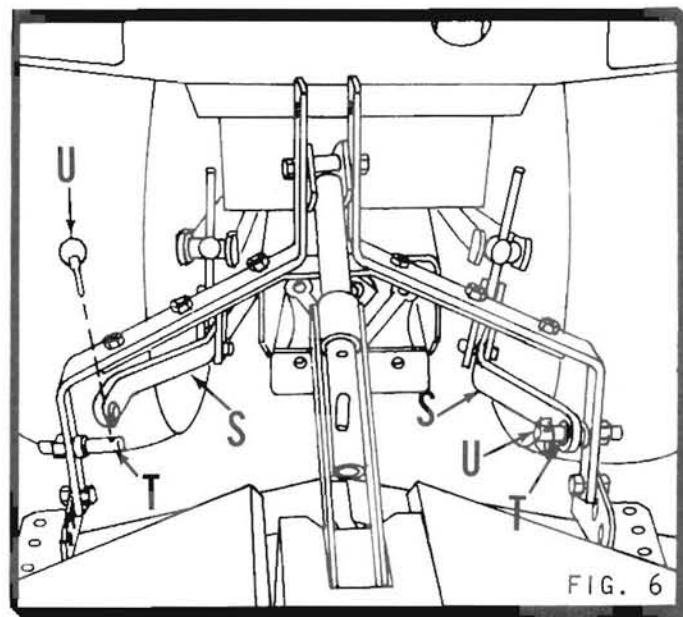
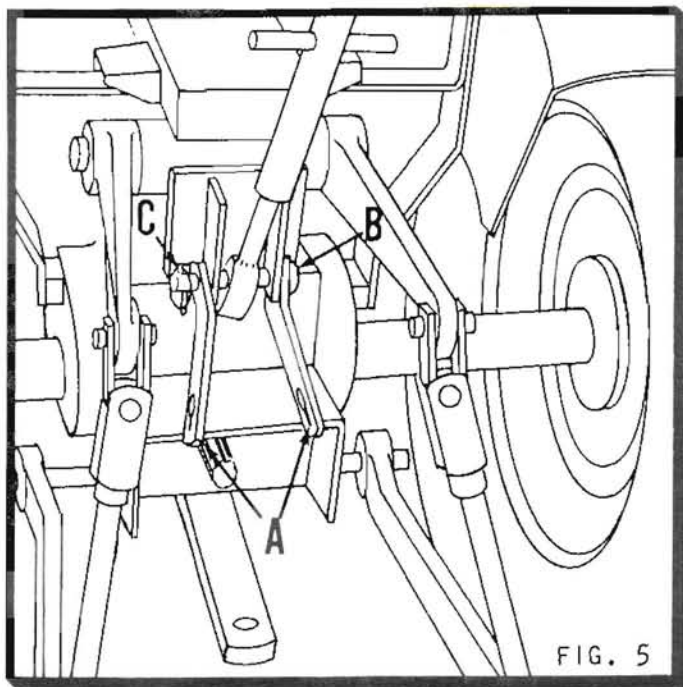
3. Assemble three point hitch mast (E) and anchor chains (M) to rotary deck assembly (A) with bolt (N) and nut (P). (See Fig. 4)
4. Remove bolt (R), nut (S) and spacer (T) from three point hitch mast (E). Place spacer (T) into hole of slide assembly (U) and secure to three point hitch mast (E) with bolt (R) and nut (S). (See Fig. 4)
5. Slide male PTO shaft half (B) into female PTO shaft half (Z). (See Fig. 4)



SET UP

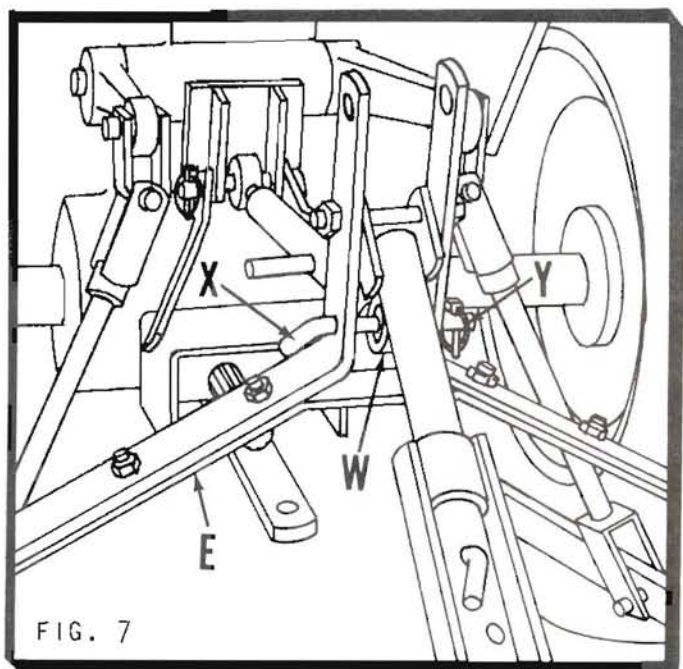
PREPARATION OF TRACTOR

1. Before beginning to assemble the rotary mower attachment, remove any other attachments from the tractor.
2. Assemble anchor straps (A) to tractor using standard tractor clevis pin (B) and klik pin (C). (See Fig. 5)



ASSEMBLE ROTARY MOWER TO TRACTORS EQUIPPED WITH CATEGORY "O" THREE POINT HITCH SYSTEMS

1. Move tractor hydraulic lift lever to float position.
2. Loosen sway chains if your tractor three point hitch is so equipped.
3. Assemble lower link arms (S) onto hitch pins (T) and secure with klik pins (U). (See Fig. 6)
4. Assemble tube and handle assembly (W) in line with bottom hole of three point hitch mast (E), secure with locating pin (X) and klik pin (Y). (See Fig. 7)



NOTE: For mounting onto Satoh Beaver Tractors you must assemble the tube and handle assembly (W) into the top of three point hitch mast (E). (See Fig. 9)

5. Tighten sway chains to center unit behind tractor if your tractor three point hitch is so equipped.

SET UP

ASSEMBLE ROTARY MOWER TO TRACTOR EQUIPPED WITH CATEGORY "I" THREE POINT HITCH SYSTEMS

1. Move tractor hydraulic lift lever to float position.
2. Loosen sway chains if your tractor three point hitch is so equipped.
3. Assemble lower link arms (S) onto hitch pins (T) and secure with klik pins (U). (See Fig. 8)

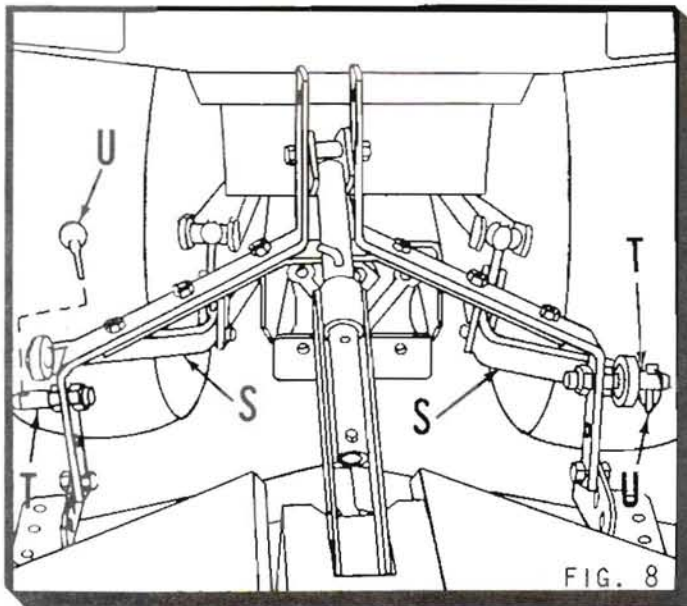


FIG. 8

4. Assemble tube and handle assembly (W) in line with top hole of three point hitch mast (E), secure with locating pin (X) and klik pin (Y). (See Fig. 9)
5. Tighten sway chains to center unit behind tractor if your tractor three point hitch is so equipped.

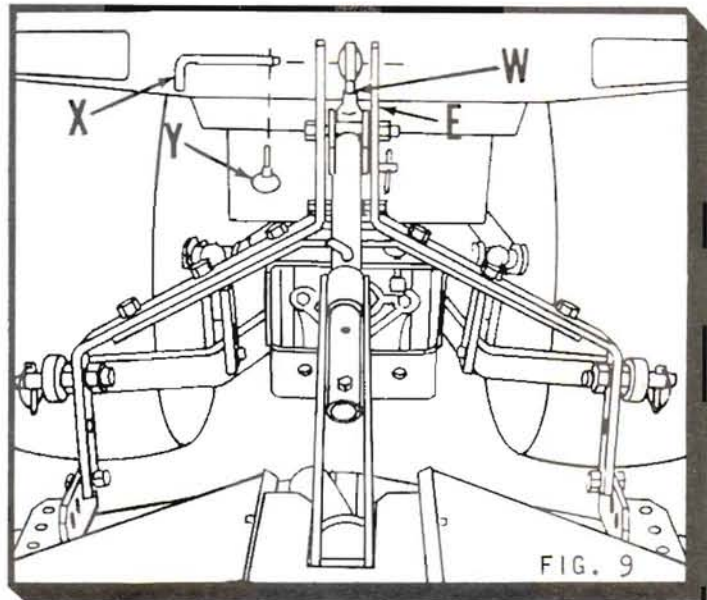


FIG. 9

ASSEMBLE PTO SHAFT TO TRACTOR

1. Assemble PTO shaft assembly (B) to tractor PTO (E) and secure. (See Fig. 10)

NOTE: Make sure PTO is securely locked onto tractor PTO, and that PTO lock pin has snapped into position.

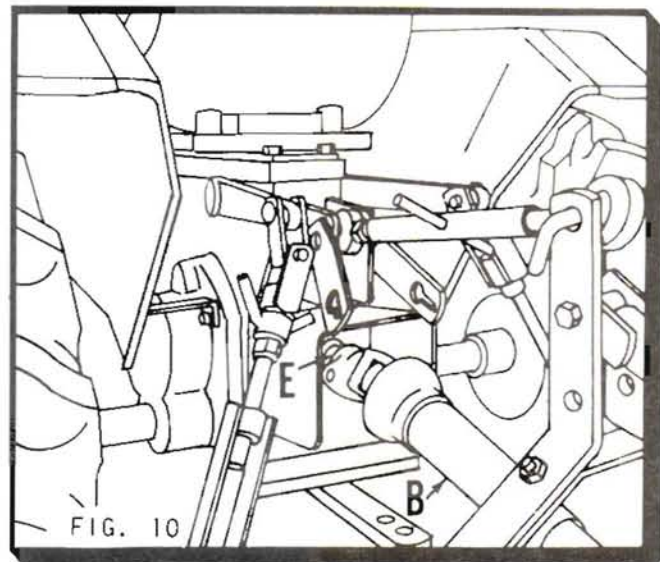
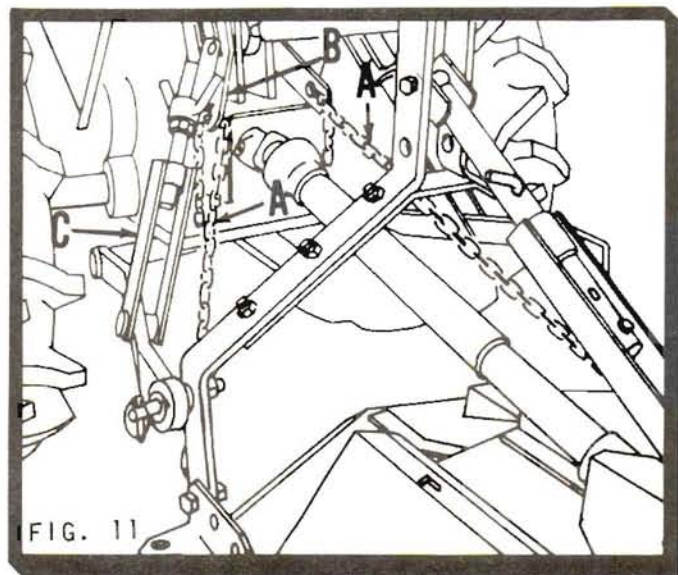


FIG. 10

SET UP

MOWER DECK HEIGHT ADJUSTMENT

To adjust mower height move the lift control lever to the desired mowing height. Slide chain (A) into chain anchor (B) until chain is tight. This will allow you to mow grass, raise unit for transport, and then drop unit to the same height when resuming cutting. (See Fig. 11)



LEVEL MOWER FROM SIDE TO SIDE



RAISE MOWER TO MIDDLE OF CUTTING RANGE. PLACE THE PTO SWITCH IN THE "OFF" POSITION, LOCK THE PARKING BRAKE, RETURN DRIVE CONTROL LEVER TO NEUTRAL, SHUT OFF ENGINE, MAKE ABSOLUTELY SURE THE BLADES AND ALL MOVING PARTS HAVE COMPLETELY STOPPED. REMOVE THE IGNITION KEY TO PREVENT INJURY FROM ACCIDENTAL STARTING.

1. Rotate blades (D) by hand so that they are in line with width of tractor. (See Fig. 12)
2. Measure the height of the tips of outer blades (D). Both right and left hand must be the same distance from level surface (E) within 1/8".
3. If mower is not level turn adjusting link (C) until unit is within 1/8" of level. (See Fig. 11 & 12)

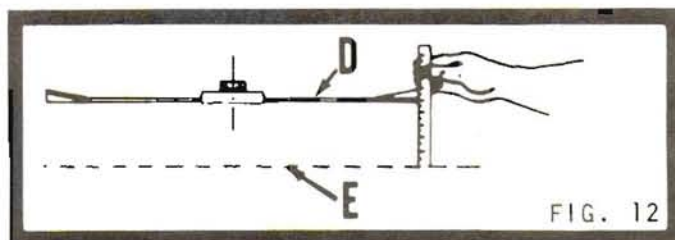


FIG. 12

ADJUST MOWER FROM FRONT TO REAR



WITH MOWER AT CUTTING HEIGHT, PLACE THE PTO SWITCH IN THE "OFF" POSITION, LOCK THE PARKING BRAKE, RETURN DRIVE CONTROL LEVER TO NEUTRAL, SHUT OFF ENGINE, MAKE ABSOLUTELY SURE THE BLADES AND ALL MOVING PARTS HAVE COMPLETELY STOPPED. REMOVE THE IGNITION KEY TO PREVENT ACCIDENTAL STARTING.

1. Your mower should cut approximately 3/16" higher at front (A) than at rear (B) on level surface (C). With left hand mower blade in line with length of tractor, measure the height of the tip of blade. Rotate blade one half turn and measure. The same tip must be approximately 3/16" lower at rear. (See Fig. 12A)

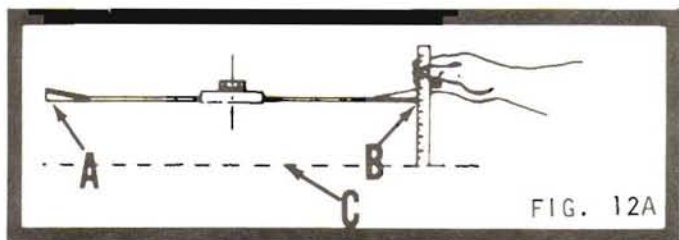
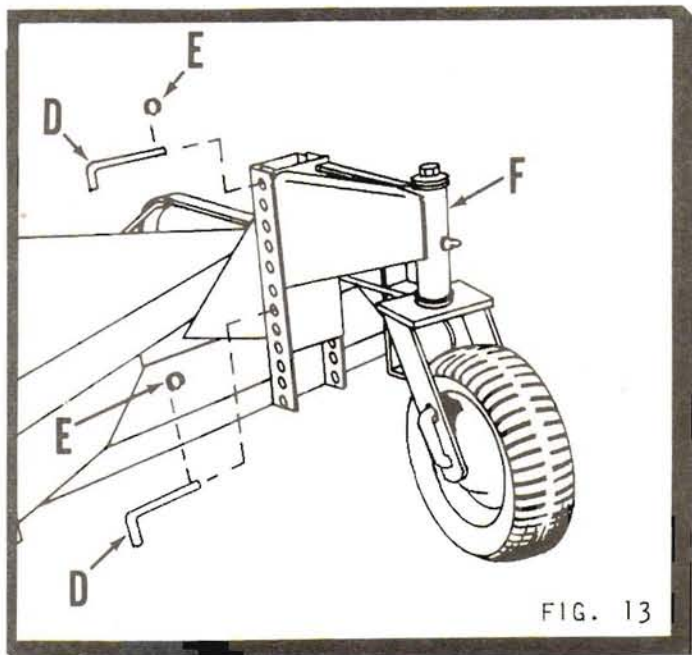


FIG. 12A

2. If adjustment is required, remove locating pin (D) and hair pin (E) from caster wheels (F). Move caster wheels (F) down in holes to raise rear of mower or move caster wheels (F) up in holes to lower rear of mower. Replace locating pin (D) and secure with hair cotter pin (E). (See Fig. 13)

SET UP

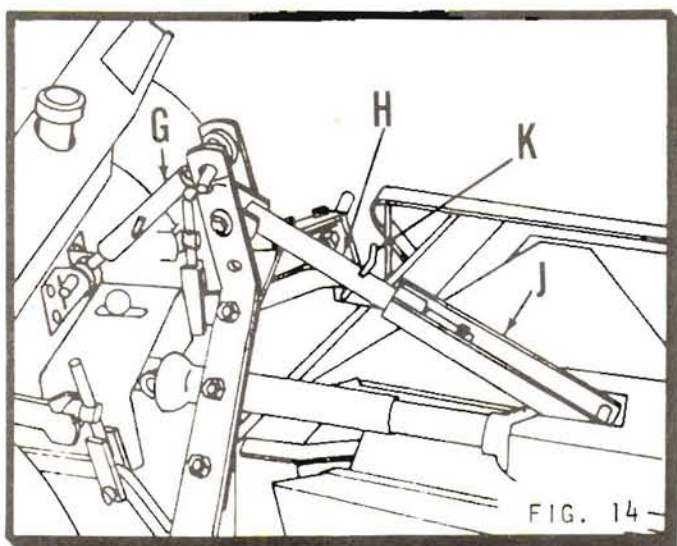


NOTE: Always have both caster wheels adjusted to the same height.

THREE POINT HITCH FLOAT ADJUSTMENT

To adjust float in three point hitch place unit on level surface, turn tube and handle assembly (G) until second hole from bottom in upper half of slide assembly (H) is below tube of lower half of slide assembly (J). (See Fig. 14)

NOTE: For transport, assemble pin (K) in second hole from bottom in upper half of slide assembly (H). (See Fig. 14)



OPERATION

MOWER OPERATING SPEED

Your rotary mower unit is designed to operate at 540 RPM rear PTO speed.

If your tractor is equipped with a multi-speed rear PTO, the PTO lever must be set for 540 RPM.



DO NOT OPERATE REAR PTO ABOVE THE SPEED SHOWN ON PTO SPEED DECAL LOCATED ON THE BELT SHIELD OF THE MOWER. MOWER COULD BE DAMAGED AND VERY SERIOUS INJURY TO OPERATOR, OR ANYONE IN THE IMMEDIATE AREA, COULD RESULT.



OPERATING INSTRUCTIONS



TRACTOR REAR PTO SHOULD ALWAYS BE DISENGAGED (OFF) BEFORE ENGINE START-UP OR ENGINE SHUT-DOWN IS PERFORMED.

RAISING AND LOWERING OF MOWER

The lift control lever for the tractor rear three point lift system is used to raise and lower your rear mount rotary mower. See your tractor manual for lift control lever operation.

TRANSPORTING TRACTOR/MOWER

The tractor rear PTO should be disengaged (OFF) and mower raised to transport position when driving tractor/mower from one location to another.



SPECIAL CARE SHOULD BE TAKEN TO ENGAGE TRACTOR CLUTCH SLOWLY AND SMOOTHLY AND TO ACCELERATE TRACTOR SLOWLY WHEN TRANSPORTING MOWER.

If special care is not taken, the overhanging weight of the mower behind the rear wheels of the tractor can cause front tractor wheels to raise from the ground and possible loss of control of the tractor.

ENGAGING MOWER

Your rotary mower is engaged and disengaged through use of the tractor PTO control lever. See your tractor manual for PTO control lever operation.

Tractor engine throttle should be advanced to approximately half throttle before engaging mower.

MOWING HEIGHT

Average cutting height is approximately 2-1/2 to 2-3/4". Height of cut can be adjusted by passing links of chains (A) through holes in chain anchors (B) until desired cutting height is attained. Both chains (A) must be adjusted evenly. (Fig. 11)



SET PARKING BRAKE, SHUT OFF TRACTOR ENGINE, AND REMOVE KEY BEFORE MAKING ANY ADJUSTMENTS TO MOWER.

Caster wheels at rear of mower must also be adjusted. Remove locating pins (D) and place caster wheels at desired cutting height. Re-install locating pins (D) and secure pins with spring clips (E). (Fig. 13)

OPERATION

MOWING PROCEDURES

Before mowing check all shields and lift clearance. Check area under and around mower for any objects that could be thrown from under mower. Make sure that mower discharge area is clear.



Mowing should be started with tractor in low gear and speed increased only as mowing conditions will safely permit.

Mower will perform at its best when tractor throttle is set for the engine RPM which gives the proper PTO speed. (See Page 8 for proper PTO speed)

When mowing large areas it is recommended to start by turning to the left so that the clippings will be discharged away from shrubs, fences, driveways, etc. After two or three rounds, mow in the opposite direction making right hand turns so that the clippings will discharge onto the area that has been cut. Having the cut area to the left side of the machine will result in a more even distribution of clippings and more uniform cutting. (Fig. 15)

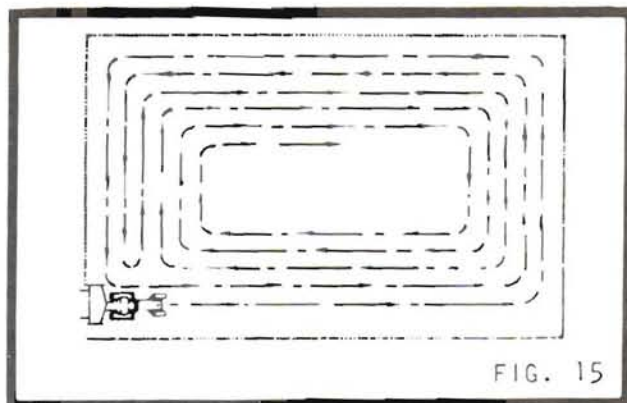


FIG. 15

OPERATION



DO NOT RUN MOWER WITH DISCHARGE CHUTE AGAINST A WALL OR BUILDING WHERE OBJECTS MAY BE THROWN BACK TOWARDS OPERATOR.

Mowing conditions will vary from place to place, including the types of grass which are being mowed, such as fine stalk, coarse stalk, dense or sparse grasses.

Better mowing results will be obtained in grassy areas if they are mowed when the grass is approximately 4 to 5 inches maximum height. While your mower will cut grass taller than 5", you will experience substantial increase in the horsepower required and some change in the finished appearance of the area mowed.

When mowing grasses 6 to 12" tall the mower should be raised upward in front approximately 3/8 to 1/2" higher than the rear for better performance. This adjustment can be made by adjusting the down stop chains at the front of the mower.

In extremely tall grasses, 12 to 18" in height, raise the front of mower upward approximately 2" for better mowing performance.

When mowing tall grass you may find that the pressure of wheel tracks may cause certain grasses to be pushed downward and will not be mowed properly. If this condition exists you may have to mow the area twice. The first mowing with the mower raised and the second mowing at the normal height that you have chosen. If it is practical, better results will be found if the second mowing is at right angle in travel to the previous mowing.



TRACTOR REAR PTO SHOULD BE DISENGAGED (OFF), PARKING BRAKE SET, ENGINE SHUT OFF, AND KEY REMOVED BEFORE LEAVING SEAT OF TRACTOR FOR ANY REASON.

MAINTENANCE

LUBRICATION

Under normal usage lubrication is only required once a year.

Use Amoco EP #2 Amolith grease or equal.

1. Check grease in gearbox every 50 hours of operation. It should be at least 2/3 full.
2. Grease caster wheels through grease fittings every 25 to 50 hours of operation.
3. Grease blade spindle bearings through grease fittings every 50 hours of operation.

BLADE CARE

For best results mower blades must be kept sharp. The blades can be sharpened with a few strokes of a file or on a grinding wheel. Do not attempt to sharpen while on mower.



PLACE THE REAR PTO LEVER IN THE "OFF" POSITION AND LOCK THE PARKING BRAKE. RETURN DRIVE CONTROL LEVER TO NEUTRAL AND SHUT OFF THE ENGINE. MAKE ABSOLUTELY SURE THE BLADES AND ALL MOVING PARTS HAVE COMPLETELY STOPPED. REMOVE THE IGNITION KEY TO PREVENT INJURY FROM ACCIDENTAL STARTING.

When grinding, care should be taken to maintain blade balance and the blade should be checked for proper balance before re-installation on mower. Unbalanced or bent blades will cause excessive vibration when running, and eventual damage to mower. Replace bent or damaged blades.

To insure satisfactory operation, it is recommended that before the start of each mowing season, the old blades be discarded and replaced with new blades.

MAINTENANCE

BLADE REPLACEMENT



PLACE THE PTO SWITCH IN THE "OFF" POSITION. LOCK THE PARKING BRAKE, RETURN DRIVE CONTROL LEVER TO NEUTRAL AND SHUT OFF THE ENGINE. MAKE ABSOLUTELY SURE THE BLADES AND ALL MOVING PARTS HAVE COMPLETELY STOPPED. REMOVE THE IGNITION KEY, TO PREVENT INJURY FROM ACCIDENTAL STARTING.

It is not necessary to remove mower from tractor for blade replacement. Moving mower lift control lever backwards to highest position will permit access to blades.

1. Remove the 1/2" hex head bolt and 1/2" lock washer by turning bolt counter-clockwise.
2. Install new blade(s) with sharp edge down and secure with lock washer and hex head bolt. Tighten securely by turning clockwise.

NOTE: Check bolts and blades occasionally to make sure bolts are tightened. Torque bolt 45 to 50 foot pounds.

GEARBOX

When working on or around gearbox, do not hammer on shafts for any reason. This could cause damage to gears, bearings and seals resulting in premature gearbox failure.

REPAIR PARTS

Your rotary mower has been produced with components designed for your unit. Although standard v-belts, bearings, blades, pulleys etc. may look like the parts used on your rotary mower, while similar in appearance, many are of different construction and could in some cases cause a malfunction in the operation of the machine.

For continued satisfactory performance use only replacement repair parts supplied by the manufacturer.

HABAN MANUFACTURING COMPANY
2100 NORTHWESTERN AVENUE
RACINE, WISCONSIN 53404

CLEANING MOWER

Water pressure from a garden hose will remove fresh clippings from underside of mower. Clean mower after each mowing.

DAILY MAINTENANCE.

Make sure all nuts on bolts are tight, cotter pins and retainer springs are secure. Keep blades sharp. Observe all safety precautions. Keep mower well lubricated.

MAINTENANCE

BLADE DRIVE V-BELT ADJUSTMENT

The spring loaded idler (E) keeps a constant tension on the blade drive v-belt and no tension adjustment is required. When spring loaded idler (E) no longer keeps tension on the blade drive v-belt and spring (H) is not tight against guide (J) then the v-belt is worn out and will need to be replaced. (Fig. 16)

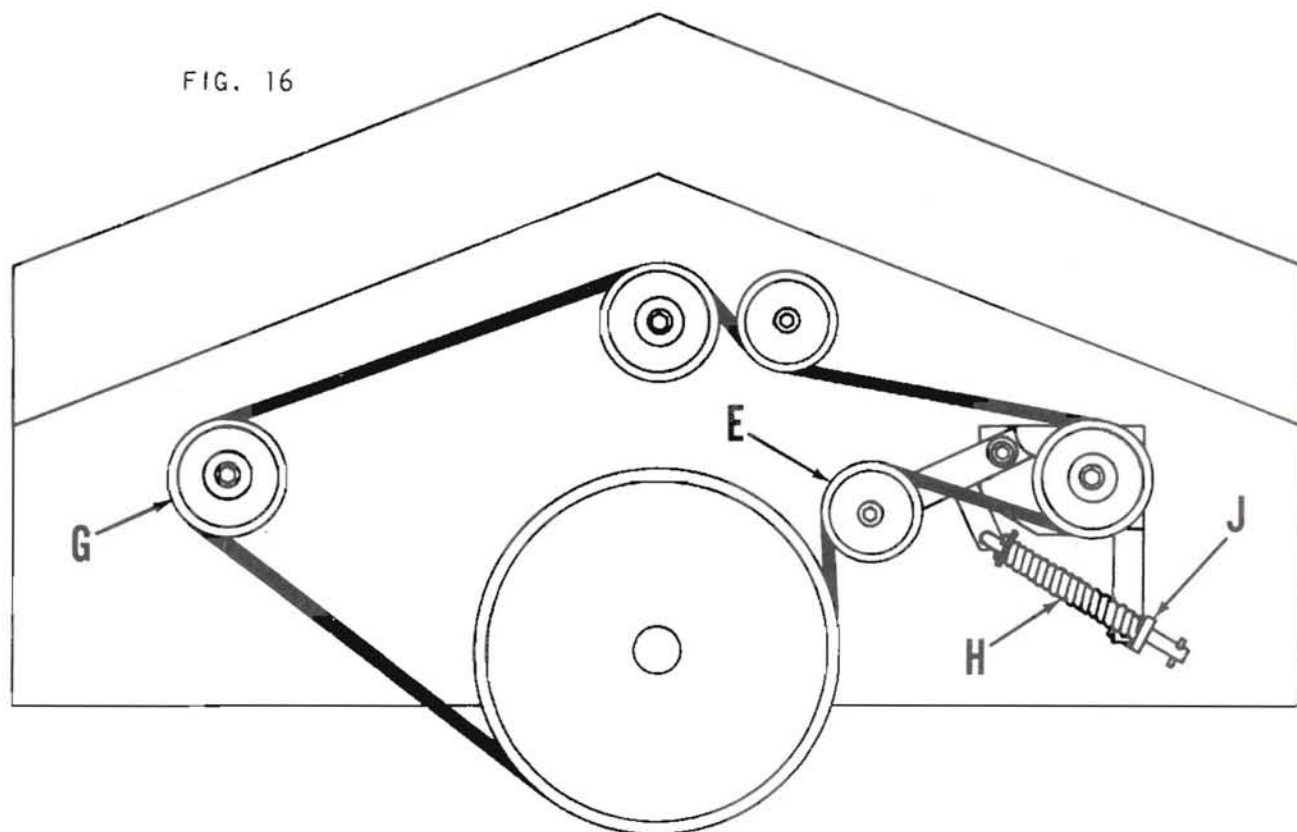
BLADE DRIVE V-BELT REPLACEMENT

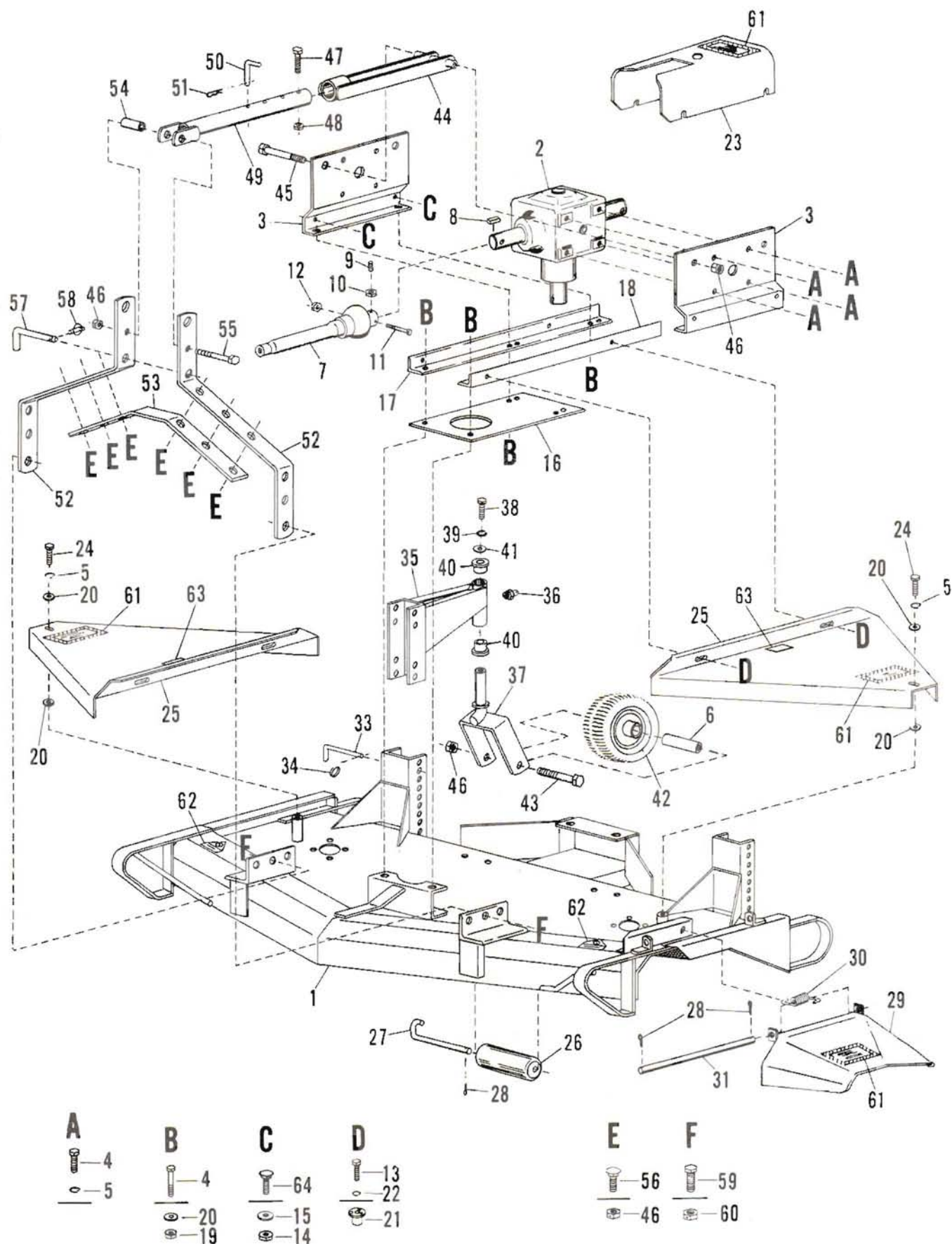


WITH MOWER AT GROUND LEVEL, PLACE TRACTOR REAR PTO LEVER IN THE "OFF" POSITION AND LOCK THE PARKING BRAKE. RETURN DRIVE CONTROL LEVER TO NEUTRAL AND SHUT OFF ENGINE. MAKE ABSOLUTELY SURE THE BLADES AND ALL MOVING PARTS HAVE COMPLETELY STOPPED. REMOVE THE KEY FROM KEY SWITCH TO PREVENT INJURY FROM ACCIDENTAL STARTING.

1. Remove v-belt guard covers from both left and right hand sides of mower deck.
2. Remove old v-belt.
3. Place new v-belt around all pulleys as shown, pulling v-belt onto pulley (G) last. (Fig. 16)
4. Re-install v-belt guard covers to both sides of mower deck.

FIG. 16

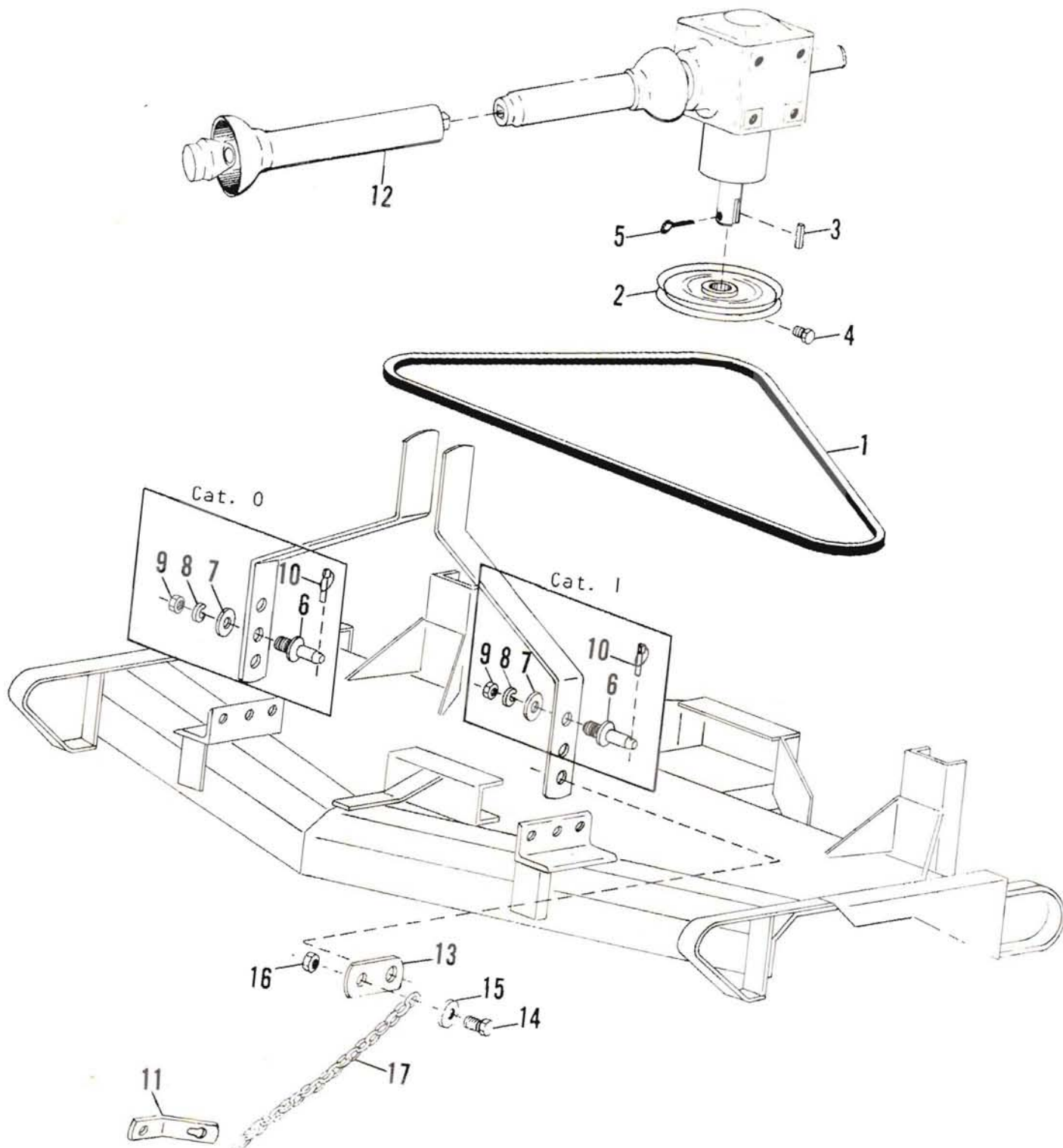




54" & 60" ROTARY MOWER MODEL 621-805, 621-807, 621-903, 621-905, 623-007 & 623-009

REF. NO.	PART NUMBER	DESCRIPTION	QTY. REQ.
1	13529	Deck Rotary Assembly (For 54RM Models Only)-----	1
1	13538	Deck Rotary Assembly (For 60RM Models Only)-----	1
2	13604	Gearbox-----	1
3	14342	Gearbox Mounting Plate-----	2
4	GM-180122*	Bolt - 3/8-16 x 1" Hex Head-----	16
5	GM-120382*	Washer - 3/8" Medium Lock-----	10
6	15725	Spacer-----	2
7	14628	Drive Shaft Tube Half-----	1
8	3073	Key-----	1
9	GM-102594*	Screw - 3/8-16 x 5/8" Allen Head Cup Set-----	1
10	GM-124829*	Nut - 3/8-16 Light Half Hex-----	1
11	GM-180089*	Bolt - 5/16-18 x 2-1/4" Hex Head-----	1
12	GM-9413447*	Nut - 5/16-18 Hex Lock-----	1
13	GM-180022*	Bolt - 1/4-20 x 1" Hex Head-----	4
14	GM-271178*	Nut & Lock Washer Assembly - 1/4-20 Hex-----	4
15	GM-446188*	Washer - 17/64" x 5/8" x .049 Flat-----	4
16	13532	Middle Guard Plate (For 54RM Models Only)-----	1
16	13603	Middle Guard Plate (For 60RM Models Only)-----	1
17	13534	Gearbox Mounting RH Angle (For 54RM Models Only)-----	1
17	13547	Gearbox Mounting RH Angle (For 60RM Models Only)-----	1
18	13533	Gearbox Mounting LH Angle (For 54RM Models Only)-----	1
18	13548	Gearbox Mounting LH Angle (For 60RM Models Only)-----	1
19	GM-271190*	Nut & Lock Washer Assembly - 3/8-16 Hex-----	8
20	GM-446363*	Washer - 3/8" x 7/8" x .083 Flat-----	12
21	6349	Weld Nut-----	4
22	GM-120380*	Washer - 1/4" Medium Lock-----	4
23	13607	Gearbox Cover Assembly (Riveted)-----	1
24	GM-180120*	Bolt - 3/8-16 x 3/4" Hex Head-----	2
25	13025	V-Belt Cover Guard-----	2
26	12138	Mower Roller-----	1
27	13535	Roller Axle Pin-----	1
28	GM-120123*	Pin - 1/8" x 1-1/4" Cotter-----	3
29	12984	Grass Deflector Assembly-----	1
30	12988	Deflector Spring-----	1
31	13872	Deflector Mounting Rod-----	1
33	12983	Locating Pin-----	4
34	5714	Spring Clip-----	4
35	15162	Wheel Support Assembly-----	2
36	5074	Grease Fitting-----	2
37	15160	Wheel Fork Assembly-----	2
38	GM-180173*	Bolt - 1/2-13 x 1" Hex Head-----	2
39	GM-120384*	Washer - 1/2" Medium Lock-----	2
40	15159	Bushing-----	4
41	13022	Washer-----	2
42	15852	Wheel & Tire (With Grease Fitting)-----	2
43	GM-433156*	Bolt - 1/2-13 x 4-1/2" Hex Head-----	2
44	14346	Mast Slide Bottom Assembly-----	1
45	GM-189315*	Bolt - 1/2-13 x 6-1/2" Hex Head-----	1
46	GM-9414074*	Nut - 1/2-13 Hex Lock-----	10
47	GM-180128*	Bolt - 3/8-16 x 1-3/4" Hex Head-----	1
48	GM-9413534*	Nut - 3/8-16 Hex Lock-----	1
49	13029	Mast Slide Top Assembly-----	1
50	5736	Locating Pin-----	1
51	3430	Hair Cotter Pin-----	1
52	12989	Mast Side Arm-----	2
53	13031	Mast Support Bracket-----	1
54	13785	Spacer-----	1
55	GM-180192*	Bolt - 1/2-13 x 3-1/2" Hex Head-----	1
56	GM-126485*	Bolt - 1/2-13 x 1-1/4" Carriage-----	6
57	13068	Locating Pin-----	1
58	14063	Klik Pin-----	1
59	GM-271547*	Bolt - 5/8-11 x 1-1/2" Hex Head-----	2
60	GM-9414075*	Nut - 5/8-11 Hex-----	2
61	12314	Warning Decal-----	4
62	12315	Danger Decal-----	2
63	13125	540 RPM PTO Speed Decal-----	2
64	GM-126315*	Bolt - 1/4-20 x 1" Carriage-----	4
NP	14379	Instruction & Repair Manual-----	1

54" & 60" ROTARY MOWER MODEL 621-805, 621-807, 621-903, 621-905, 623-007 & 623-009



54" & 60" ROTARY MOWER MODEL 621-805, 621-807, 621-903, 621-905, 623-007 & 623-009

54" ROTARY MOWER MODEL 621-805, 621-807

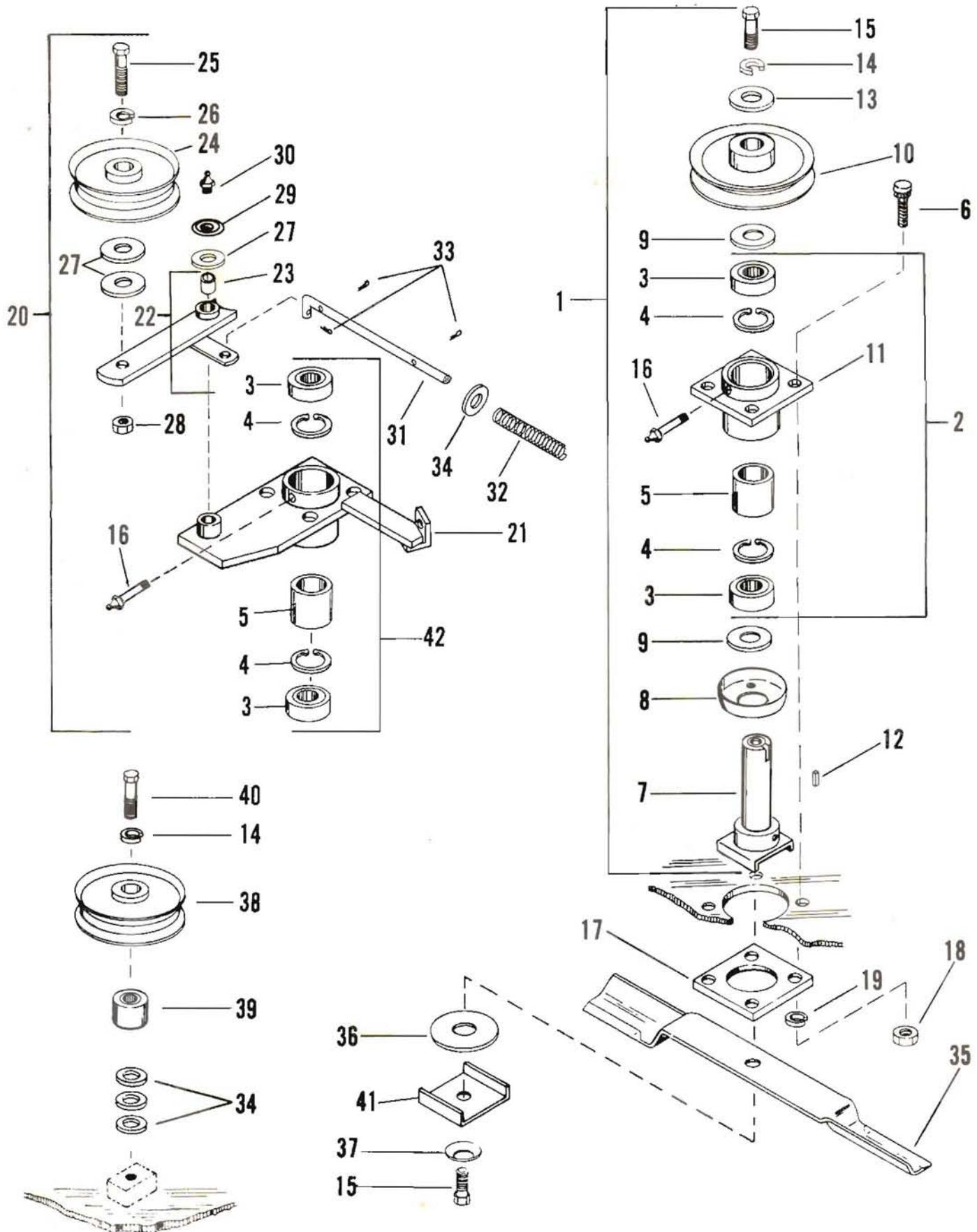
REF. NO.	PART NUMBER	DESCRIPTION	QTY. REQ.
1	14351	V-Belt-----	1
2	14349	Pulley (15" OD)-----	1
3	3073	Key-----	1
4	GM-128228*	Screw - 3/8-16 x 3/4" Square Head Cup Point Set----	1
5	GM-137258*	Hair Cotter Pin-----	1
6	13072	Hitch Pin (Category "0") Assembly-----	2
7	GM-110962*	Washer - 21/32" x 1-5/16" x .095 Flat-----	2
8	GM-121574*	Washer - 5/8" Medium Lock-----	2
9	GM-124589*	Nut - 5/8-11 Hex-----	2
10	14063	Klik Pin-----	2
11	13067	Chain Anchor-----	2
12	14621	Drive Shaft Half-----	1
13	9149	Chain Anchor Strap-----	2
14	GM-180077*	Bolt - 5/16-18 x 3/4" Hex Head-----	2
15	GM-120386*	Washer - 5/16" x 3/4" x .065 Flat-----	2
16	GM-9413447*	Nut - 5/16-18 Hex Lock-----	2
17	13082	Chain-----	2

54" ROTARY MOWER MODEL 621-903, 621-905

REF. NO.	PART NUMBER	DESCRIPTION	QTY. REQ.
1	14351	V-Belt-----	1
2	14349	Pulley (15" OD)-----	1
3	3073	Key-----	1
4	GM-128228*	Screw - 3/8-16 x 3/4" Square Head Cup Point Set----	1
5	GM-137258*	Pin - Hair Cotter-----	1
6	13070	Hitch Pin (Category "1") Assembly-----	2
7	GM-110962*	Washer - 21/32" x 1-5/16" x .095 Flat-----	2
8	GM-121574*	Washer - 5/8 Medium Lock-----	2
9	GM-124589*	Nut - 5/8-11 Hex-----	2
10	13781	Klik Pin-----	2
11	13067	Chain Anchor-----	2
12	14624	Drive Shaft Half-----	1
13	9149	Chain Anchor Strap-----	2
14	GM-180077*	Bolt - 5/16-18 x 3/4" Hex Head-----	2
15	GM-120386*	Washer - 5/16" x 3/4" x .065 Flat-----	2
16	GM-9413447*	Nut - 5/16-18 Hex Lock-----	2
17	13082	Chain-----	2

60" ROTARY MOWER MODEL 623-007, 623-009

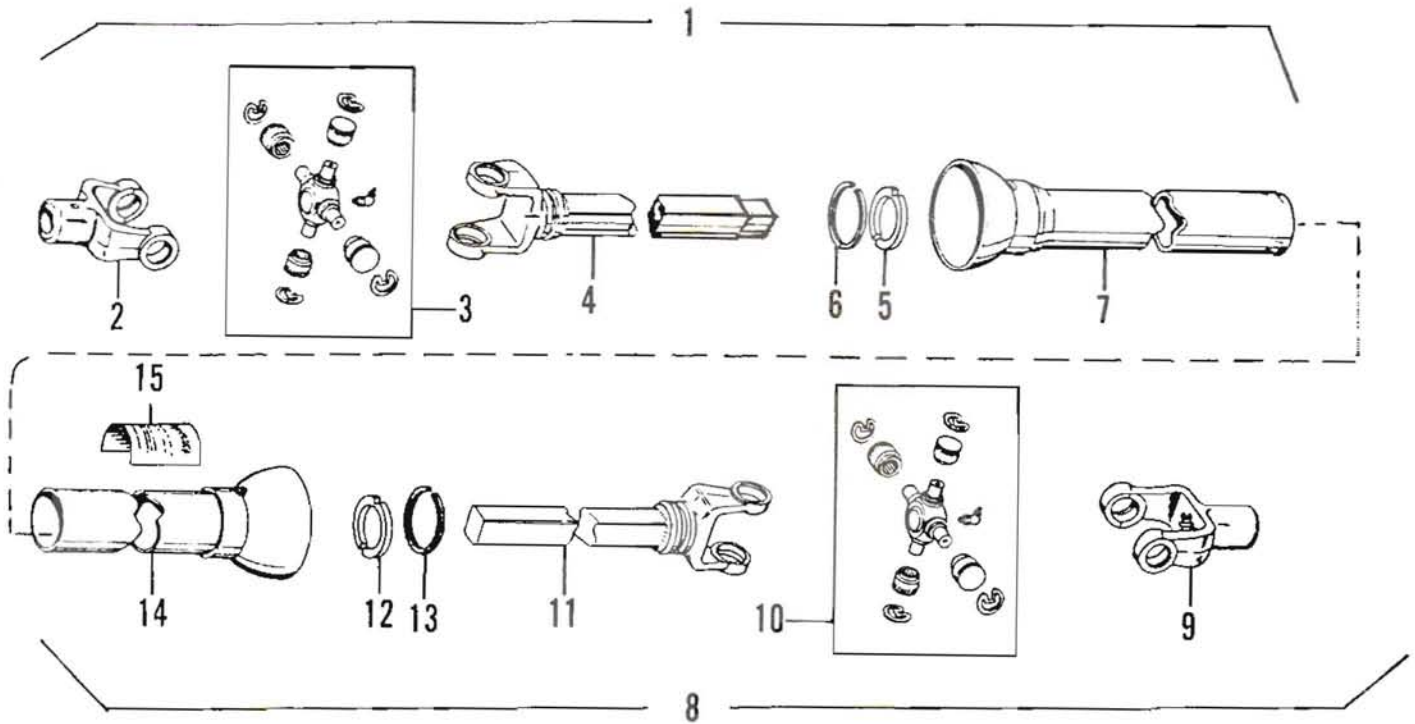
REF. NO.	PART NUMBER	DESCRIPTION	QTY. REQ.
1	14348	V-Belt-----	1
2	14349	Pulley (15" OD)-----	1
3	3073	Key-----	1
4	GM-128228*	Screw - 3/8-16 x 3/4" Square Head Cup Point Set----	1
5	GM-137258*	Pin - Hair Cotter-----	1
6	13070	Hitch Pin (Category "1") Assembly-----	2
7	GM-110962*	Washer - 21/32" x 1-5/16" x .095 Flat-----	2
8	GM-121574*	Washer - 5/8" Medium Lock-----	2
9	GM-124589*	Nut - 5/8-11 Hex-----	2
10	13781	Klik Pin-----	2
11	13067	Chain Anchor-----	2
12	14624	Drive Shaft Half-----	1
13	9149	Chain Anchor Strap-----	2
14	GM-180077*	Bolt - 5/16-18 x 3/4" Hex Head-----	2
15	GM-120386*	Washer - 5/16" x 3/4" x .065 Flat-----	2
16	GM-9413447*	Nut - 5/16-18 Hex Lock-----	2
17	13082	Chain-----	2



REF. NO.	PART NUMBER	DESCRIPTION	QTY. REQ.
1	14649	Complete Spindle Assembly.....	2
2	14648	Spindle & Bearing Assembly.....	2
3	14293	Ball Bearing.....	6
4	14292	Internal Retaining Ring.....	6
5	14236	Bearing Spacer.....	3
6	15767	Round Head Bolt.....	12
7	14237	Spindle Shaft Assembly.....	3
8	13616	Bearing Cover Cap.....	3
9	10454	Flat Washer.....	3
10	14239	Spindle Pulley.....	3
11	14646	Spindle Assembly.....	2
12	3073	Square Key.....	3
13	14232	Flat Washer.....	3
14	GM-120384*	Washer - $\frac{1}{2}$ " Medium Lock.....	4
15	GM-181700*	Bolt - $\frac{1}{2}$ -20 x $1\frac{1}{2}$ " Hex Head.....	6
16	15434	Lubrication Fitting.....	3
17	14428	Spindle Support Plate.....	3
18	GM-120371*	Nut - $\frac{1}{2}$ -20 Light Hex.....	12
19	GM-120384*	Washer - $\frac{1}{2}$ " Medium Lock.....	12
20	15298	Spindle & Idler Assy (For 54RM Models Only) ..	1
20	14897	Spindle & Idler Assy (For 60RM Models Only) ..	1
21	15301	Spindle & Bolt Assy (For 54RM Models Only) ...	1
21	14900	Spindle & Bolt Assy (For 60RM Models Only) ...	1
22	15696	Spring Idler Arm Assembly.....	1
23	15652	Oilite Bushing.....	1
24	14311	Idler Pulley Assembly.....	1
25	GM-180128*	Bolt - $\frac{3}{8}$ -16 x $1\frac{3}{4}$ " Hex Head.....	1
26	GM-120382*	Washer - $\frac{3}{8}$ " Medium Lock.....	1
27	GM-120388*	Washer - $\frac{7}{16}$ " x 1" x .083 Flat.....	3
28	GM-9413534*	Nut - $\frac{3}{8}$ -16 Hex Lock.....	1
29	4772	Spring Washer.....	1
30	15293	Grease Fitting.....	1
31	14256	Idler Spring Rod.....	1
32	14245	Idler Tension Spring.....	1
33	GM-120123*	Pin - Cotter.....	3
34	GM-120396*	Washer - $\frac{17}{32}$ " x $1\frac{1}{16}$ " x .095 Flat.....	4
35	12156	Mower Blade (For 54RM Models Only).....	3
35	12277	Mower Blade (For 60RM Models Only).....	3
36	14306	Mower Blade Washer.....	3
37	12157	Serrated Washer.....	3
38	S-228	Idler Pulley Assembly.....	1
39	11653	Spacer.....	1
40	GM-180179*	Bolt - $\frac{1}{2}$ -13 x $1\frac{3}{4}$ " Hex Head.....	1
41	14883	Blade Retainer Bracket.....	3
42	15299	Spindle & Bearing Assy (54RM Models Only)....	1
42	14898	Spindle & Bearing Assy (60RM Models Only)....	1

*Standard Hardware - Purchased Locally

POWER TAKE OFF SHAFT REPAIR PARTS LIST



POWER TAKE OFF SHAFT REPAIR PARTS LIST

<u>REF. NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY. REQ.</u>
1	14628	Drive Shaft Half-----	1
2	14557	End Yoke-----	1
3	13677	Repair Kit-----	1
4	14558	Yoke & Tube-----	1
5	14559	Nylon Bearing-----	1
6	14556	Bearing Retainer-----	2
7	14560	Female Guard Tube-----	1

54" & 60" ROTARY MOWER MODELS 621-903, 621-905, 623-007, 623-009

<u>REF. NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY. REQ.</u>
8	14624	Drive Shaft-----	1
9	14561	Quick Detach Yoke Assembly-----	1
10	13677	Repair Kit-----	1
11	14565	Yoke & Shaft-----	1
12	14559	Nylon Bearing-----	1
13	14556	Bearing Retainer-----	2
14	14566	Male Guard Tube-----	1
15	13283	Danger Decal-----	1

54" ROTARY MOWER MODEL 621-805, 621-807

<u>REF. NO.</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY. REQ.</u>
8	14621	Drive Shaft-----	1
9	13684	End Yoke-----	1
10	13677	Repair Kit-----	1
11	14573	Yoke & Shaft-----	1
12	14559	Nylon Bearing-----	1
13	14556	Bearing Retainer-----	2
14	14572	Male Guard Tube-----	1
15	13283	Danger Decal-----	1

HABAN

MODEL NO.

621-805

621-807

621-903

621-905

623-007

623-009

HOW TO ORDER REPAIR PARTS

MODEL NUMBER

THE MODEL NUMBER WILL BE FOUND ON A PLATE ON THE RIGHT SIDE, ATTACHED TO THE ROTARY-DECK HOUSING. ALWAYS MENTION THE MODEL NUMBER WHEN REQUESTING SERVICE ON REPAIR PARTS FOR YOUR ROTARY MOWER.

REPAIR PARTS

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

THE PART NUMBER
THE PART DESCRIPTION
THE MODEL NUMBER
THE NAME OF MERCHANDISE
ORDER PARTS FROM:

Haban Manufacturing Company
2100 Northwestern Avenue
Racine, Wisconsin 53404

Your Tractors Model Number

Your Tractors Serial Number

Your Rotary Mower Serial Number

Haban Mfg. Co., Racine, Wis.