

Owner Operation and Maintenance Manual

**ROTARY MOWER
ATTACHMENT
28 INCH
MODEL 15100-01**



TO THE OWNER

This is an operational and general maintenance manual only and does not cover major repair. All major repair work must be performed by an authorized BOLENS DEALER or the factory warranty is void. Bolens equipment is carefully engineered to give good performance if properly operated and maintained. Keep your equipment clean and lubricate it as prescribed in this manual. Periodically inspect your unit and perform any upkeep maintenance necessary.

Your dealer is obligated by the factory to completely assemble and service new equipment prior to first delivery, and thoroughly explain and demonstrate its operation. He will repair or replace any parts which fail due to defective material and/or workmanship during the warranty period, and also provide future repair service and supply genuine factory repair parts.

IN EVENT OF ANY PROBLEM OR PARTS REQUIRED ALWAYS CONTACT YOUR DEALER. DO NOT RETURN PARTS TO THE FACTORY. WE REQUIRE PRIOR FACTORY APPROVAL ON RETURNS, AND APPROVALS ARE ISSUED ONLY TO BOLENS DEALERS OR DISTRIBUTORS.

GENERAL SAFETY PRECAUTIONS

Preventing accidents is the responsibility of every equipment operator. The following general safety precautions *must* be fully understood and followed by every operator of this equipment. Review them frequently and NEVER TAKE CHANCES. BE CAREFUL BEFORE, DURING AND RIGHT AFTER USE OF ANY POWERED EQUIPMENT. ACCIDENTS CAN BE PREVENTED.

(1) Regard your mower as a piece of power equipment. Teach this to all who operate the equipment. Power equipment not properly operated can be very dangerous.

(2) Do not allow children to operate powered equipment at any time. The average child is not capable of coping with the intricacies of operating a power tool.

(3) Be sure you know how to stop the mower and engine quickly, in case a child, person, pet or object suddenly appears in the path of or dangerously close to unit.

(4) Before using mower, clear the entire lawn area of all debris that could be thrown by the blade. Debris can be accidentally ejected at high velocity out of the discharge chute causing injury to persons or pets and damage to objects the debris would strike.

(5) When you mow on rough terrain, in high grass, the mower should be set at the highest cutting level to minimize possible ejection of debris.

(6) MOW ONLY DURING DAYLIGHT HOURS. If you mowed after sundown you would be unable to see any object accidentally left on the lawn. Artificial lighting may not illuminate the area to be mowed properly.

(7) Be alert at all times. Give complete and undivided attention to the job you are doing. This would minimize the possibility of getting into dangerous situations.

(8) No persons should be allowed in or near working area when mower is being used, particularly small children. This will minimize the possibility of other persons or children being injured by the mower or debris ejected by the mower.

(9) Disengage mower and stop the engine when ever you leave the tractor. This will help prevent runaways and/or injury to children or another person.

(10) When operating over uneven terrain and slopes use extreme care and make sure of solid firm footing at all times. This will help prevent both the operator from being thrown from unit or the unit being upset accidentally.

(11) Use special care when mowing near objects to prevent the blades from striking them, as severe damage could result.

(12) Stop the tractor and disengage mower when any other person approaches. Do not pass or stand on the grass discharge side of the mower or allow anyone else to do so with the engine running. Objects such as wire, sticks, stones, small toys etc. can be ejected at high velocity out of the discharge chute.

(13) Do not carry passengers. The passengers could fall off unit receiving injuries.

(14) Engine must be stopped and spark plug wire disconnected before adjusting mower, or changing attachments. A gasoline engine can be started if the blade or P.T.O. shaft is turned in the course of making adjustments or repairs and injury would result.

(15) Efficient mowing results and maximum safety can only be expected if the mower is maintained and operated correctly. Keep mower free of excess grease and oil.

(16) Never wear loose clothing when operating unit. It could become entangled in moving parts causing injury to the wearer.



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(17) Always wear shoes when operating unit to give your feet as much protection as possible.

(18) Do not allow adults to operate unit without proper instructions including all safety instructions. In doing so, you will be sure they know how to operate unit properly and also are aware of all the safety precautions.

(19) Study your manual. Know your equipment before operating it. Take time to operate the unit in the safest manner.

(20) Always follow manufacturer's operational suggestions for most efficient and safest operation of unit.

(21) Always look back to be certain no one is in the way before using reverse. This will avoid the possibility of running over any children, persons or pets who might be in the area in back of the unit.

MODEL NUMBER

To ensure prompt service when repairs or adjustments are required, your Bolens Dealer must have the following information:

For your own personal reference, fill in the space provided below.

Model Number of Unit _____

Serial Number of Unit _____

Your Bolens dealer has available a master Parts List for your unit. He can identify any parts you may require and furnish genuine factory replacements.

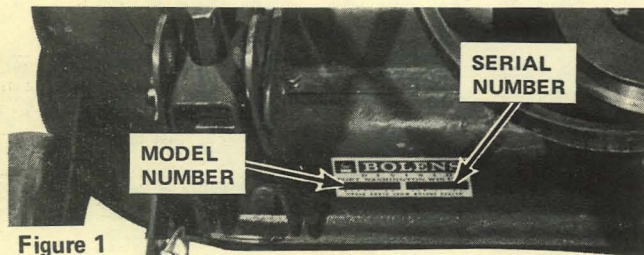


Figure 1

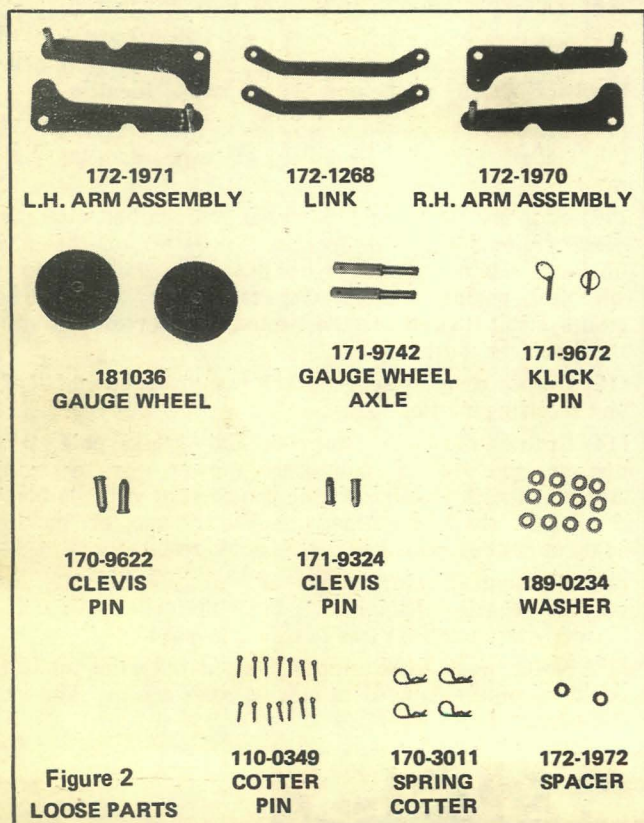


Figure 2
LOOSE PARTS

ASSEMBLY

This unit is shipped complete with all parts required to mount it to your HUSKY tractor.

(1) Attach the two gauge wheels to the mower assembly by securing the wheels to their respective axles with a flat washer on each side of the wheel and cotter key and then inserting the axle into the outside second notch of the wheel mounting bracket on the rear of the mower deck. Secure the axles with the KLIK pins supplied. See figure 3.

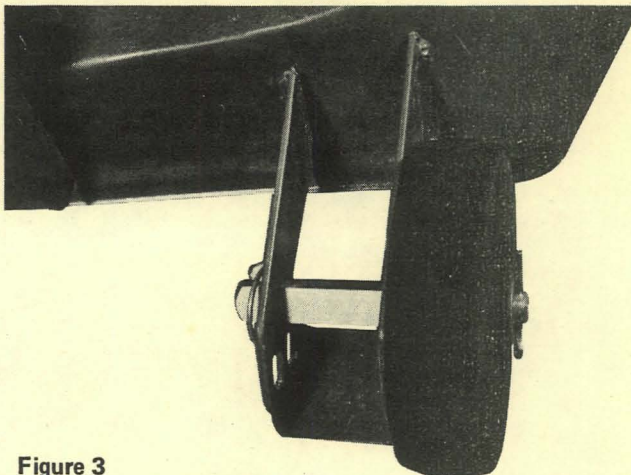


Figure 3



Figure 4

MOUNTING

To attach mower to the tractor, slide the mower under the tractor. Bring the attachment arms up to the hitch brackets of the tractor and install hitch pins from outside in; secure with spring cotter. On tractors equipped with lift kit, position the tractor attachment lift lever in the full forward position. Attach lift chains to lift arms using the flat washer and spring cotter. Grasp the Handle "A" of the spring loaded mower drive pulley (see figure 4); pull the spring loaded pulley in a clockwise direction with the right hand and slip the belt onto the tractor P.T.O. pulley with the left hand.

LEVELING THE MOWER

For best cutting results, it is important that the mower be leveled from front to back. Set mower on the gauge wheels on a flat level area, and check the tractor tire pressures, 30 lbs. in the rear, 30 lbs. in front.

NOTE: Be certain gauge wheels are positioned in the same cutting height position. Place mower on ground level. Using a level on the mower deck check for front to back leveling. Should adjustment be required, refer to "A" figures 5 and 6. If mower is too high in front, turn screws "A" on both sides of mower, equal turns counterclockwise, until mower is level. If it is too low in front, turn screws "A" on both sides of mower equal turns clockwise until mower is level.

CAUTION: DO NOT use the mower deck as a step plate.

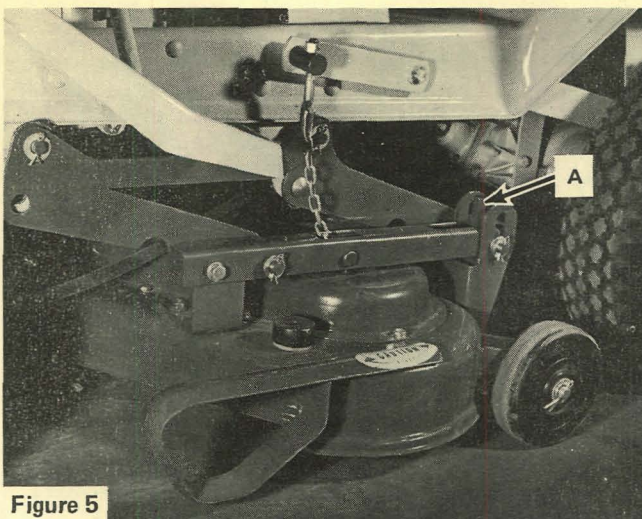


Figure 5

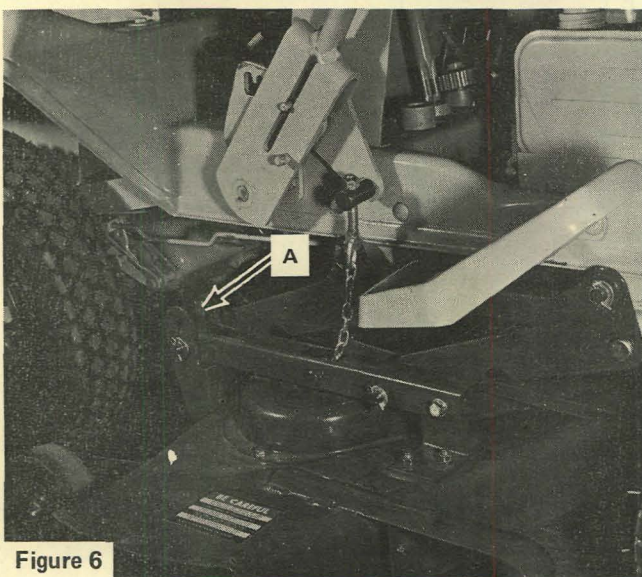


Figure 6

OPERATION

CAUTION: BEFORE USING MOWER, REMOVE STONES, WIRE, ETC. FROM AREA TO BE MOWED. BE SURE TO AVOID STRIKING PROTRUDING OBJECTS SUCH AS PIPES, ROOTS, AND EARTH MOUNDS WITH CUTTING BLADES AS THIS COULD RESULT IN DAMAGE TO THE MOWER. NEVER PLACE HANDS OR FEET UNDER MOWER BASE WHEN ENGINE IS RUNNING.

There is one control for operating the mower: a tractor power take-off lever for engaging the mower blades. A tractor lift lever kit for raising and lowering the mower can be purchased as an optional accessory.

BE SURE THE TRACTOR POWER TAKE-OFF LEVER (P.T.O.) IS DISENGAGED AND THE TRACTOR GEAR SHIFT LEVER IS IN NEUTRAL BEFORE STARTING THE ENGINE. For best results the engine should run at full throttle to maintain sufficient blade speed. The ground speed should be controlled with the tractor gear shift and not by changing throttle setting. The engine governor will control for any increase or decrease in power requirements. If the engine begins to lag in heavy cutting, the ground speed should be reduced by shifting to a lower gear speed. The mower will not cut clean when the ground speed is too high or when the blade speed drops due to overload.

For transport, disengage the tractor P.T.O. and raise the mower.

HEIGHT OF CUT

The cutting height is regulated by raising or lowering the two rear gauge wheels. The approximate cutting heights are 1-3/4, 2-1/4 and 2-3/4 inches.

CUTTING BLADES

For efficient cutting, maintain sharp cutting edges on the blades at all times. When sharpening blades, be sure to grind or file equal amounts off both ends to maintain balance, as an unbalanced blade will cause excessive vibration and ultimately premature blade bearing failure. Always check blades on a blade balancer before reinstallation.

DRIVE BELTS

The mower has two drive belts. These belts are under constant spring tension and require no adjustment. (See figures 7 and 8.)

To replace the drive belt, remove the 3/8 inch nut "A" and lockwasher holding the spring loaded drive pulley and idler arm. Remove the 5/16 inch cap screw "B" and raise the idler arm up and away from pulley; then remove belt. Install new belt and reassemble.

To replace blade drive belt proceed as follows:

Remove the two 3/8 inch hex nuts "C" on top of belt cover, figure 7. Remove the nine hex head capscrews "D" securing belt cover to mower deck. Remove the two hex head capscrews "F" securing the two hitch assemblies "E" to mower. Raise end of hitch assemblies as far as possible and remove belt cover. Remove spring loaded drive pulley idler arm as described above. Remove blade drive belt. Reverse the above procedure to install belt.

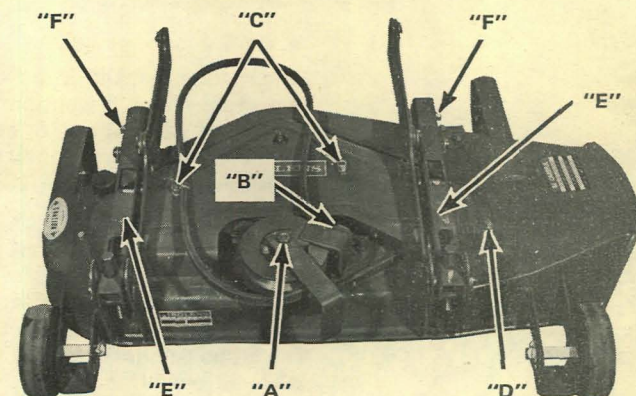


Figure 7

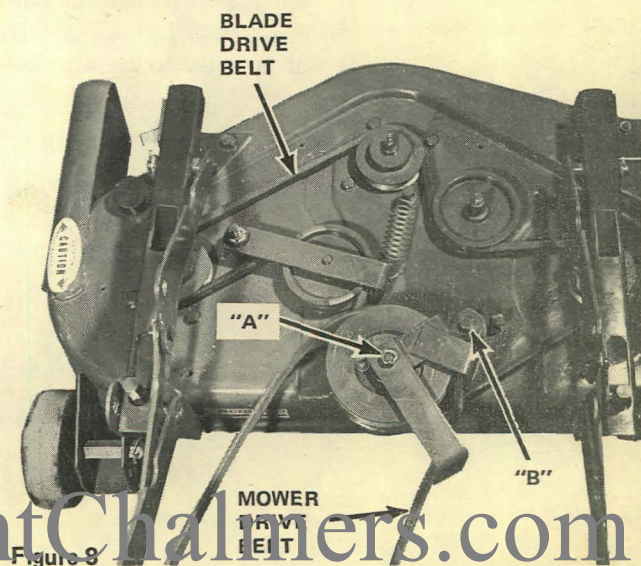


Figure 8

LUBRICATION

The mower has four grease fittings, one on each blade housing located on the top side of the mower deck and one on the input sheave; lubricate grease fittings every 8 hours of operation. Oil all other working parts, especially gauge wheel axles, and idler arm pivots with light oil.

CARE AND MAINTENANCE

Your mower is equipped with a hose fitting insert which enables you to wash out the underside of your mower without removing it from the tractor. To attach hose, shut off tractor engine, remove the plastic cap from the hose fitting. Attach hose, lower mower to its lowest cutting position, start tractor engine.

NOTE: *Be sure tractor shift lever is in NEUTRAL.*

Engage mower blades, then turn water on full force for approximately 3 to 4 minutes. Shut off water and allow blades to continue running for several more minutes. This will partially air-dry the under side of the deck. Shut off engine, remove hose and replace hose fitting cap.

NOTE: *ALWAYS REPLACE HOSE FITTING CAP AFTER WASHING OUT DECK.*

Periodically place a few drops of oil on all linkage joints, especially on idler arm pivots after washing out mower deck. Regularly check the complete unit for loose screws and nuts.

Bolens reserves the right to change specifications, add improvements or discontinue the manufacture of any of its equipment without notice or obligation to purchasers of its equipment when equipment was purchased prior to decision to make changes, add improvements or discontinue manufacture.

Bolens' approval of the use of attachments manufactured by other manufacturers is limited to assurance that such use will not void Bolens warranty on the Bolens equipment to which the outside manufactured attachments are adapted. The responsibility for the design, performance, durability, safety in operation, service repair availability, and warranty obligation remain with the outside manufacturer. Bolens specifically excludes from its warranty obligation all such outside manufactured attachments.

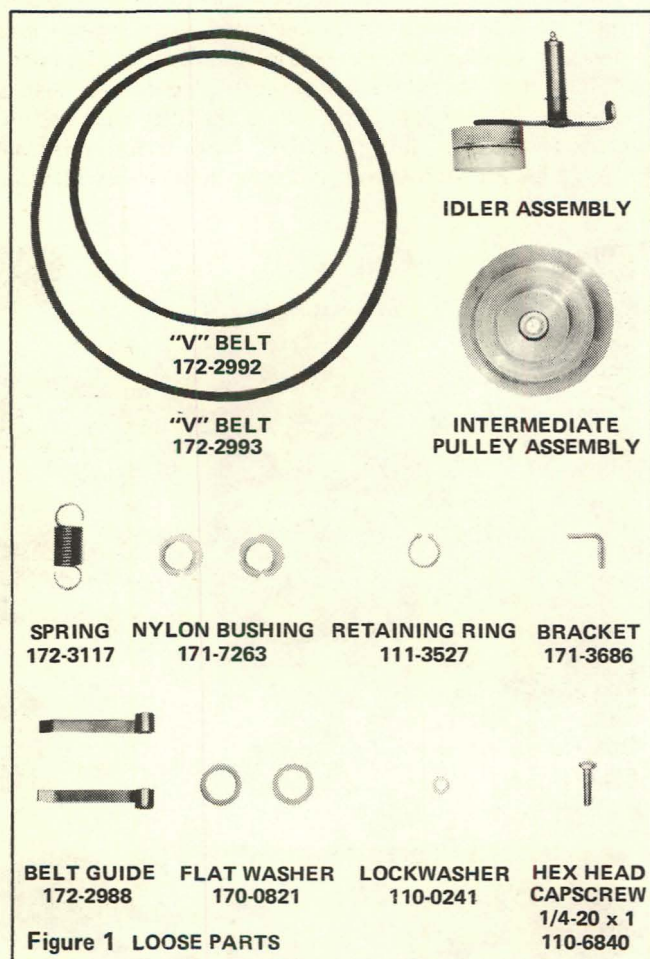
Bolens warranty will be voided if unapproved attachments are adapted to use with Bolens equipment and are so used.

Installation Instructions

DUAL RANGE KIT

MODEL 15106-01

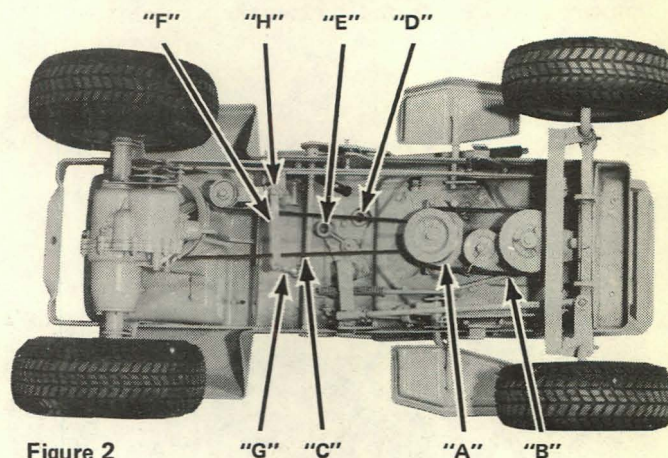
1. Count and check parts against Figure 1.
2. Remove battery (disconnect negative (-) cable first), drain gasoline tank, remove spark plug and tip tractor up on end on its rear fender.



NOTE

TO PREVENT THE TRACTOR FROM TIPPING DOWN ACCIDENTALLY CAUSING INJURIES, THE TRACTOR SHOULD BE SECURELY HELD IN THE VERTICAL POSITION WITH A CHAIN AND HOIST.

3. Remove belt guide "A" and studs, Figure 2.
4. Remove P.T.O. belt "B", Figure 2.



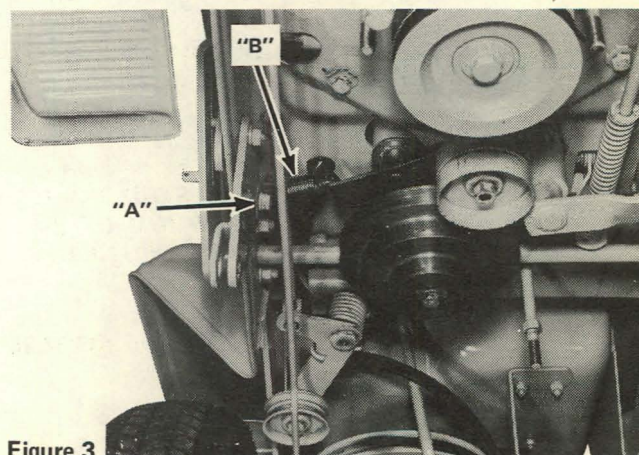
5. Remove drive belt "C", Figure 2. Refer to Owners Manual, Figures 13 and 14 for removal procedure.

6. Insert nylon bushings #171-7263 into hole "D" of steering support; see Figure 2.

7. Place one #170-0821 flat washer onto shaft of idler assembly. Install shaft into nylon bushings previously installed in hole "D" of steering support.

8. Place remaining #170-0821 flat washer over upper end of idler shaft and secure with one #111-3527 retainer ring.

9. Remove nut from rear carriage bolt on rear right hand mower hanger bracket. Install #171-3686 spring bracket "A" over bolt and secure with nut and lockwasher; see Figure 3.



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10. Hook idler spring #172-3117 into spring bracket and then into hole provided in idler arm. See "B", Figure 3.

11. Install intermediate pulley shaft into hole "E" of steering support; see Figure 2. Secure with hex head capscrew 1/4-20 x 1 and lockwasher through hole "A", Figure 4.

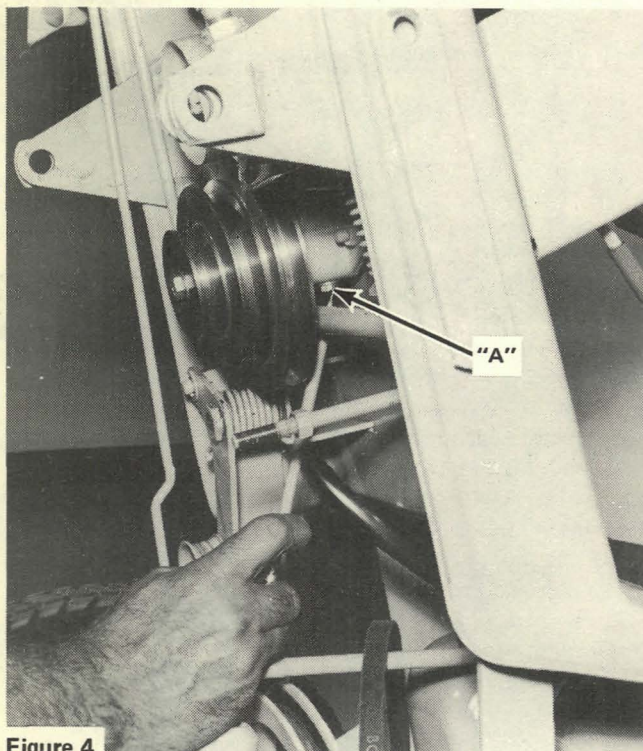


Figure 4

12. Install drive belt "A", Figure 5. Reinstall P.T.O. belt.

13. Install drive belt "B", Figure 5.

14. Remove belt guide "F", Figure 2. Install one #172-2988 belt guide onto stud "G" and one in place of spacer "H". Replace belt guide "F". Stud "G" must be readjusted to compensate for new belt guide.

NOTE

CARE SHOULD BE TAKEN THAT STUD IS NOT TURNED OUT TOO FAR. A MINIMUM OF 3/8 INCH THREAD ENGAGEMENT, IN WELD NUT IN TRACTOR FRAME, IS REQUIRED.

15. With clutch idler engaged adjust the two #172-2988 belt guides as shown in Figure 5.

COMPLETED INSTALLATION

16. Reinstall battery.

NOTE

REINSTALL NEGATIVE (-) BATTERY CABLE LAST. REINSTALL SPARK PLUG AND REFILL GASOLINE TANK.

The top groove in the engine and intermediate pulley is for the low speed range. The groove second from the top is for the high speed range. To change speed ranges remove spark plug and hold engine drive belt idler in disengaged position. A long 9/16 inch box end wrench placed over head of capscrew in idler pulley, parallel to the idler arm, will give extra leverage to disengage idler. Move engine drive belt "A", Figure 5, into speed range desired; release idler and reinstall spark plug.

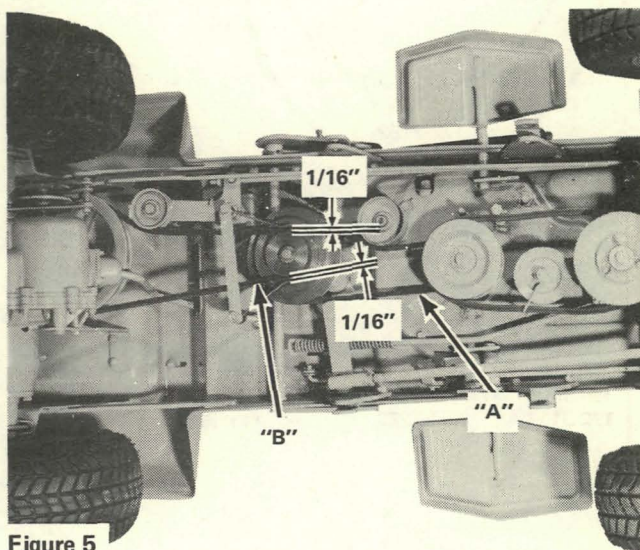


Figure 5

COMPLETED INSTALLATION

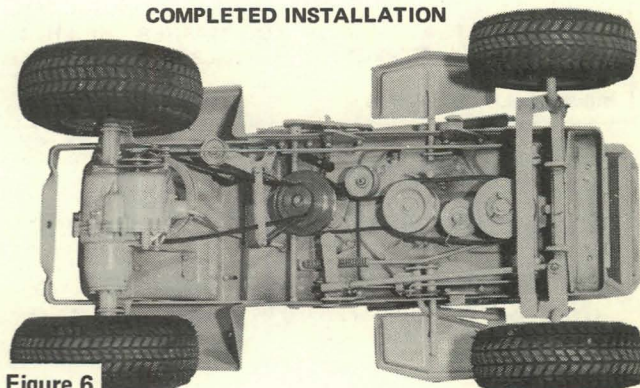


Figure 6