

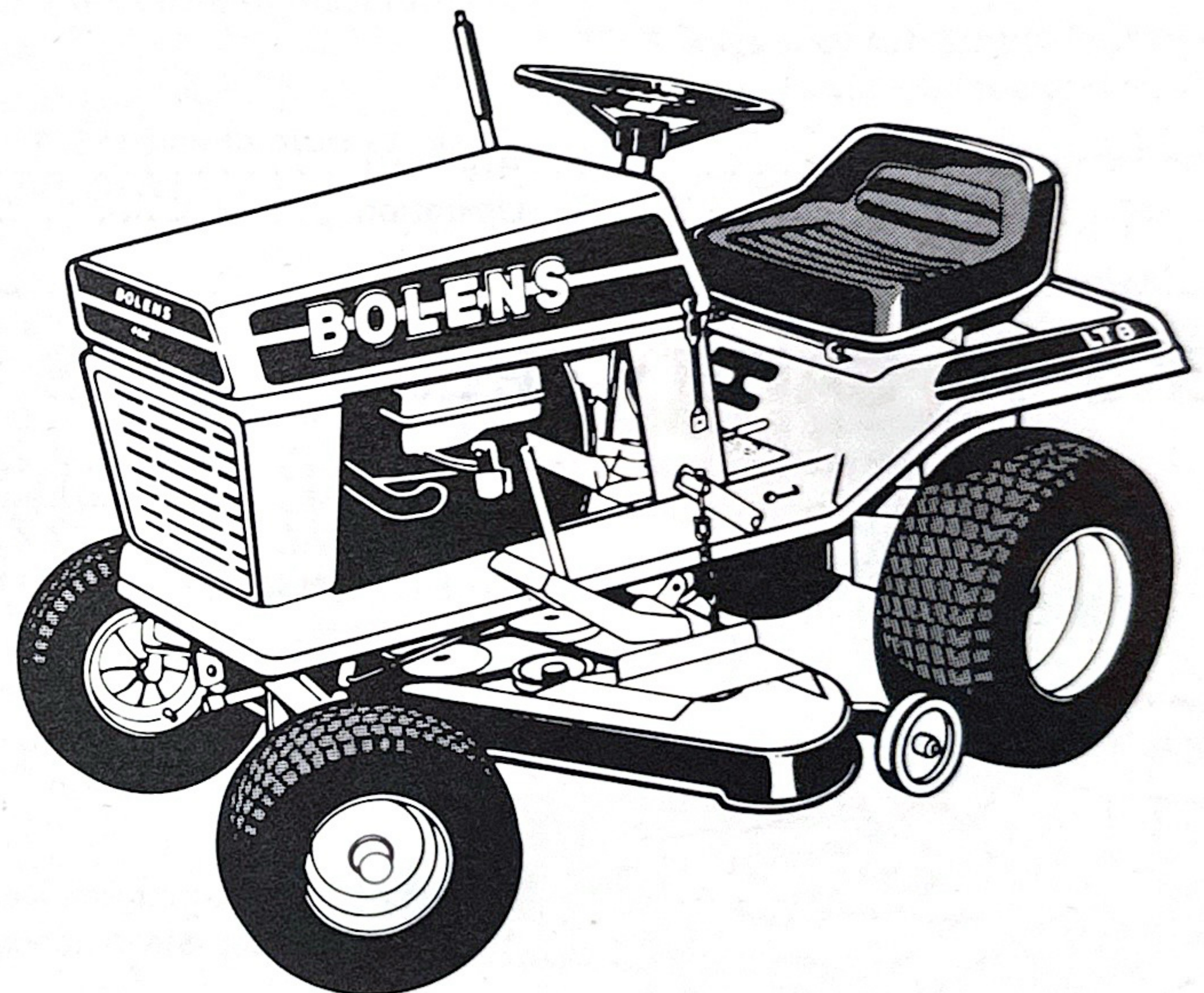
G8?

FMC

Bolens®

Mower Attachments

**Models 15101 (32 inch)
15114 (38 inch)
15115 (42 inch)**



Safety and Operation Instructions

Thank you for purchasing this piece of FMC Bolens equipment. We feel you now own one of the finest pieces of equipment available.

This is a safety, operation and general maintenance manual which does not attempt to cover major repairs. FMC Bolens equipment is carefully designed, engineered, and manufactured to give good performance if properly operated and maintained. Review this manual to familiarize yourself with the unit, its features and its operation.

This equipment is manufactured by FMC Corporation, Outdoor Power Equipment Division, 215 South Park Street, Port Washington, Wisconsin, 53074, telephone 414-284-5521. If you should have any questions or encounter any problems, which you feel only the factory can solve, write to the above address or phone, attention the Service Department.

Your Warranty Statement is included, under separate cover with this manual. Please read it carefully. Also, please return the completed postpaid owner registration card which is included with this manual. The purpose of this card is to register each unit and owner at the factory for safety purposes.

TABLE OF CONTENTS

	Page		Page		Page
General Safety Precautions	2	Assembly	4	Maintenance	7
Identification Numbers	3	Operation	5		

GENERAL SAFETY PRECAUTIONS



CAUTION

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. Know the controls and how to stop quickly. READ THE SAFETY AND OPERATION INSTRUCTION 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. Clear the work area of objects which might be picked up and thrown.

5. Disengage all the attachment clutches and shift into neutral before attempting to start the engine (motor).

6. Disengage power to attachment(s) and stop the engine (motor) before leaving the operator's position.

7. Disengage power to attachment(s) and stop the engine (motor) before making any repairs or adjustments.
8. Disengage power to attachment(s) when transporting or not in use.

9. Take all possible precautions when leaving the vehicle unattended, such as disengaging the power-take-off, lowering the attachment(s), shifting into neutral, setting the parking brake, stopping the engine, and removing the key.

10. Do not stop or start suddenly when going uphill or downhill. Mow up and down the face of steep slopes; never across the face.

11. Do not operate attachments when transporting vehicle.

12. Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.

13. Stay alert for holes in the terrain and other hidden hazards.

GENERAL SAFETY PRECAUTIONS (continued)

14. Watch out for traffic when crossing or near roadways.
15. When using any attachments, never direct discharge or material toward bystanders nor allow anyone near the vehicle while in operation.
16. Handle gasoline with care - it is highly flammable.
 - a. Use approved gasoline container.
 - b. Never remove the cap of the fuel or add gasoline to a running or hot engine, or fill the fuel tank indoors. Wipe up spilled gasoline.
 - c. Open doors if the engine is run in the garage - exhaust fumes are dangerous. Do not run the engine (motor) indoors.
17. Keep the vehicle and attachments in good operating condition, and keep safety devices in place.
18. Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition.
19. Be sure you know how to stop the mower and engine quickly, in case a child, another person, pet or object suddenly appears in the path of or dangerously close to unit.
20. Never store the equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.
21. 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.
22. Do not change the engine governor settings or overspeed the engine.
23. 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 (motor) is running if the operator must dismount to do so.
 - c. Shut the engine (motor) off when unclogging chute.
 - d. Check the blade mounting bolts for proper tightness at frequent intervals.
24. 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.
25. To reduce fire hazard, keep the engine free of grass, leaves, or excessive grease.
26. 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.
27. 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.
28. Use special care when mowing near objects to prevent the blades from striking them as severe damage could result.
29. Never wear loose clothing when operating unit. It could become entangled in moving parts causing injury to the wearer.
30. Always wear substantial footwear and clothing to provide as much protection as possible.
31. Always follow manufacturer's operational suggestions for most efficient and safest operation of unit.
32. 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.

IDENTIFICATION NUMBERS

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

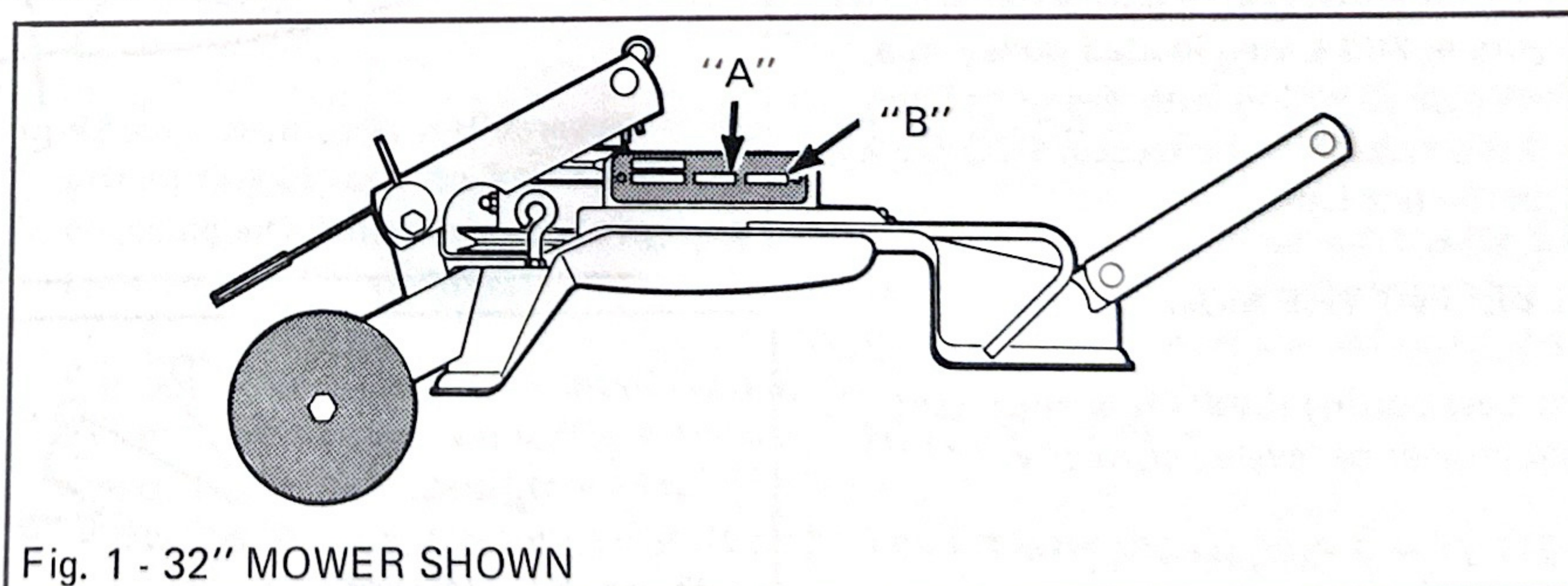
For your personal reference, fill in the spaces provided below.

Model Number (A) _____

Serial Number (B) _____

Date of Purchase _____

Your FMC Bolens Dealer has available a Parts List for your Unit. He can identify any parts you may require and furnish genuine factory replacements.



CAUTION

WE URGE USING ONLY GENUINE FMC BOLENS FACTORY REPLACEMENT PARTS, WHICH MEET ALL OF THE LATEST SAFETY REQUIREMENTS. REPLACEMENT PARTS MANUFACTURED BY OTHERS COULD PRESENT SAFETY HAZARDS EVEN THOUGH THEY MAY FIT ON FMC BOLENS PRODUCTS, ESPECIALLY ITEMS SUCH AS MOWER BLADES.

MENT PARTS, WHICH MEET ALL OF THE LATEST SAFETY REQUIREMENTS. REPLACEMENT PARTS MANUFACTURED BY OTHERS COULD PRESENT SAFETY HAZARDS EVEN THOUGH THEY MAY FIT ON FMC BOLENS PRODUCTS, ESPECIALLY ITEMS SUCH AS MOWER BLADES.

ASSEMBLY

MOUNTING DECK TO TRACTOR

1. Slide mower deck under tractor (gauge wheels to rear).
2. Lift up front of mower deck and secure hitch arms, (A) Figure 2, (32" deck) or link arms (B) (38" & 42" decks) to tabs on front axle.

NOTE

Before securing hitch arms to front axle (32" deck only) be sure that straight side of arm is to the outside to prevent interference with PTO sheave.

Use (2) clevis pins (C) (32" deck only) and spring clips (D) to secure. Insert pins from the outside in.

3. Place tractor attachment lift lever, (A) Figure 3, in full forward position.

4. Attach mower support chains (B) (on both sides of mower) to lift arms (C). Insert small end of stud (D) into hole in lift arms and secure with spring clips.

5. Lift mower attachment up using attachment lift lever. Line up holes in links, (E) Figure 3, with holes in hitch assemblies. Insert clevis pins (F) (from the outside) and secure with spring clips.

6. Grasp mower drive pulley handle, (A) Figure 4. Pull spring loaded pulley in a clockwise direction with the right hand and slip belt onto the tractor PTO pulley with the left hand.

LEVELING THE MOWER

For best cutting results it is important that mower be leveled correctly.

Check tractor tire pressure:
Rear - 8 lbs. PSI (55 kPa);
Front - 12 lbs. PSI (83 kPa).

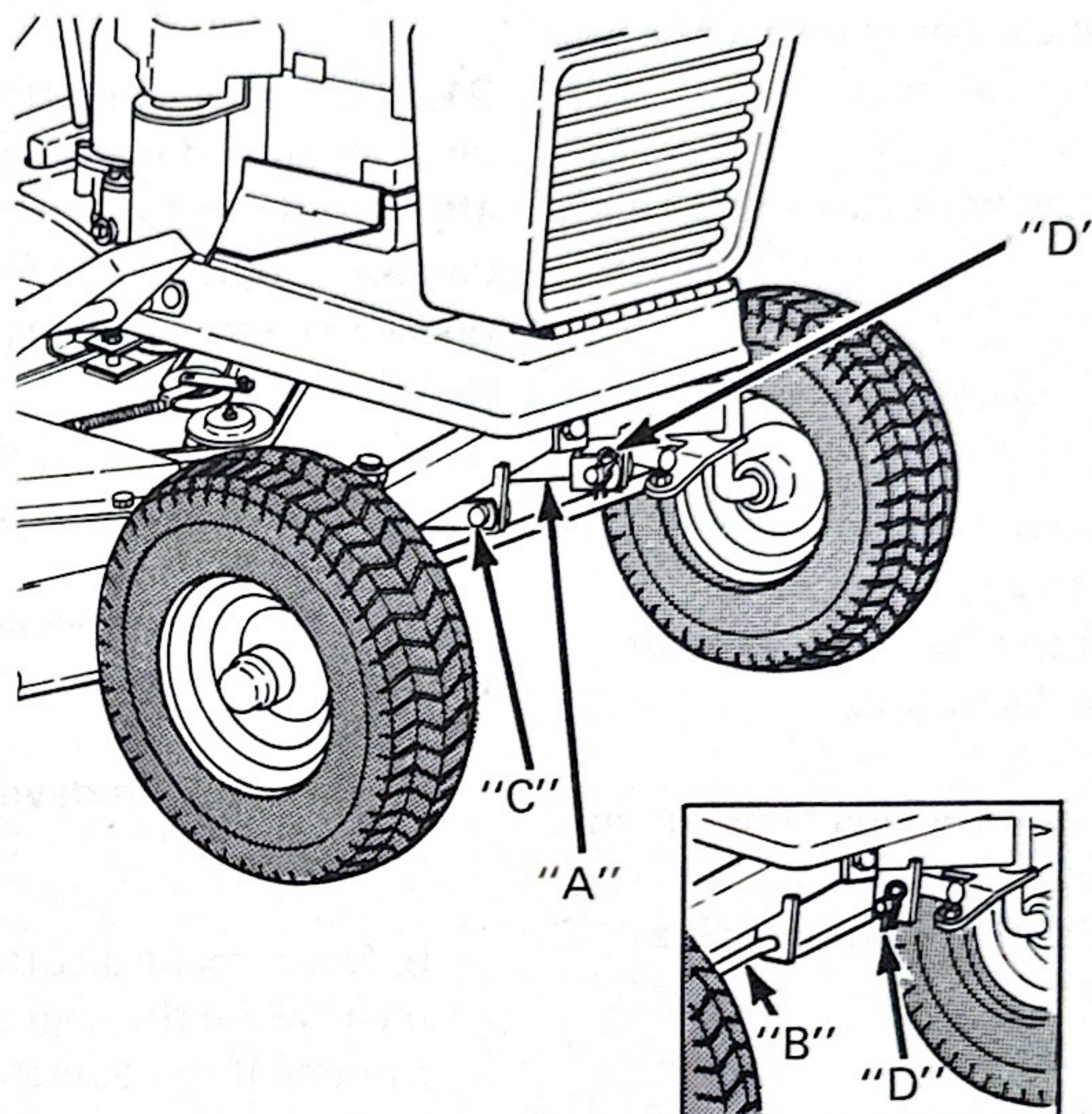


Fig. 2

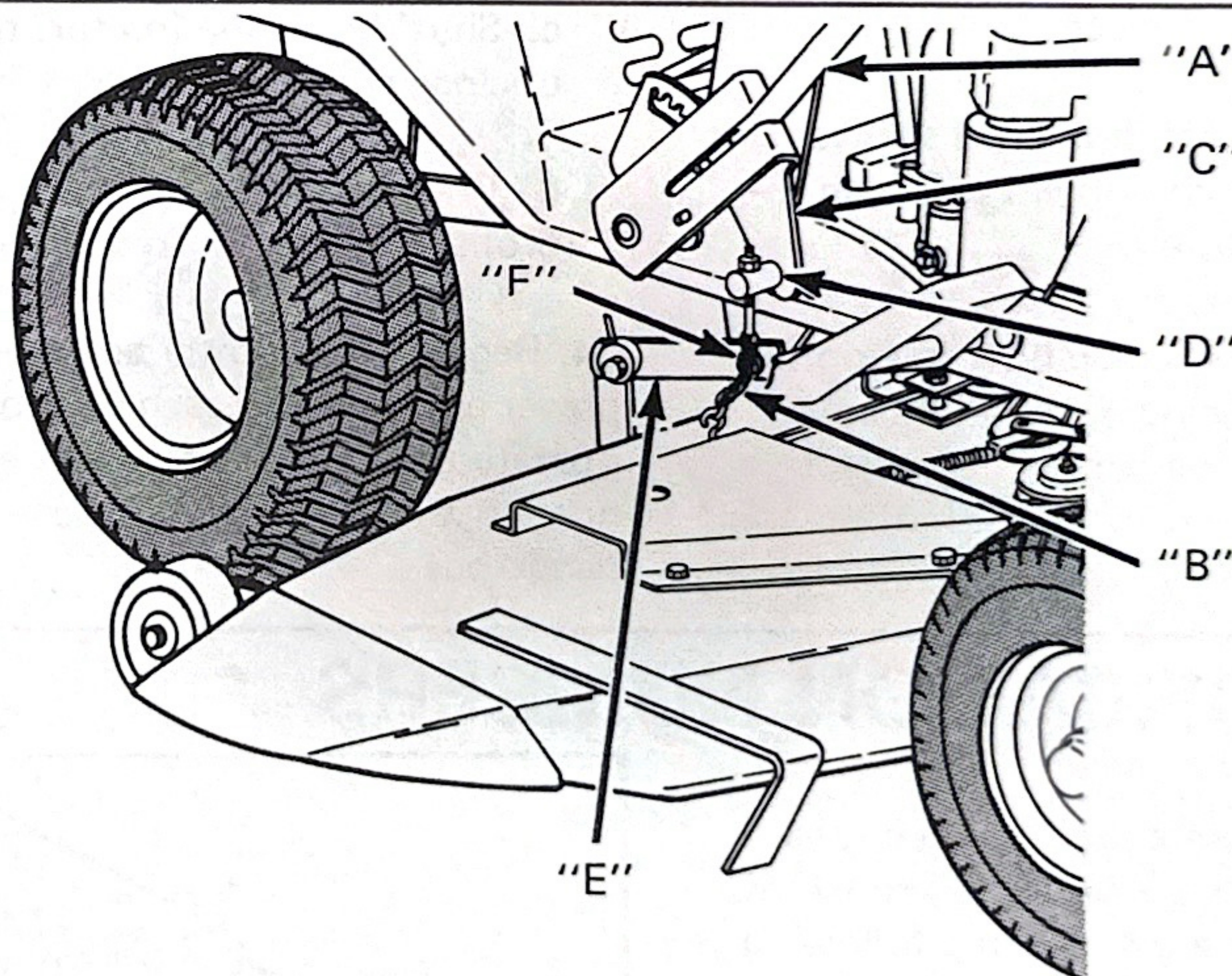


Fig. 3

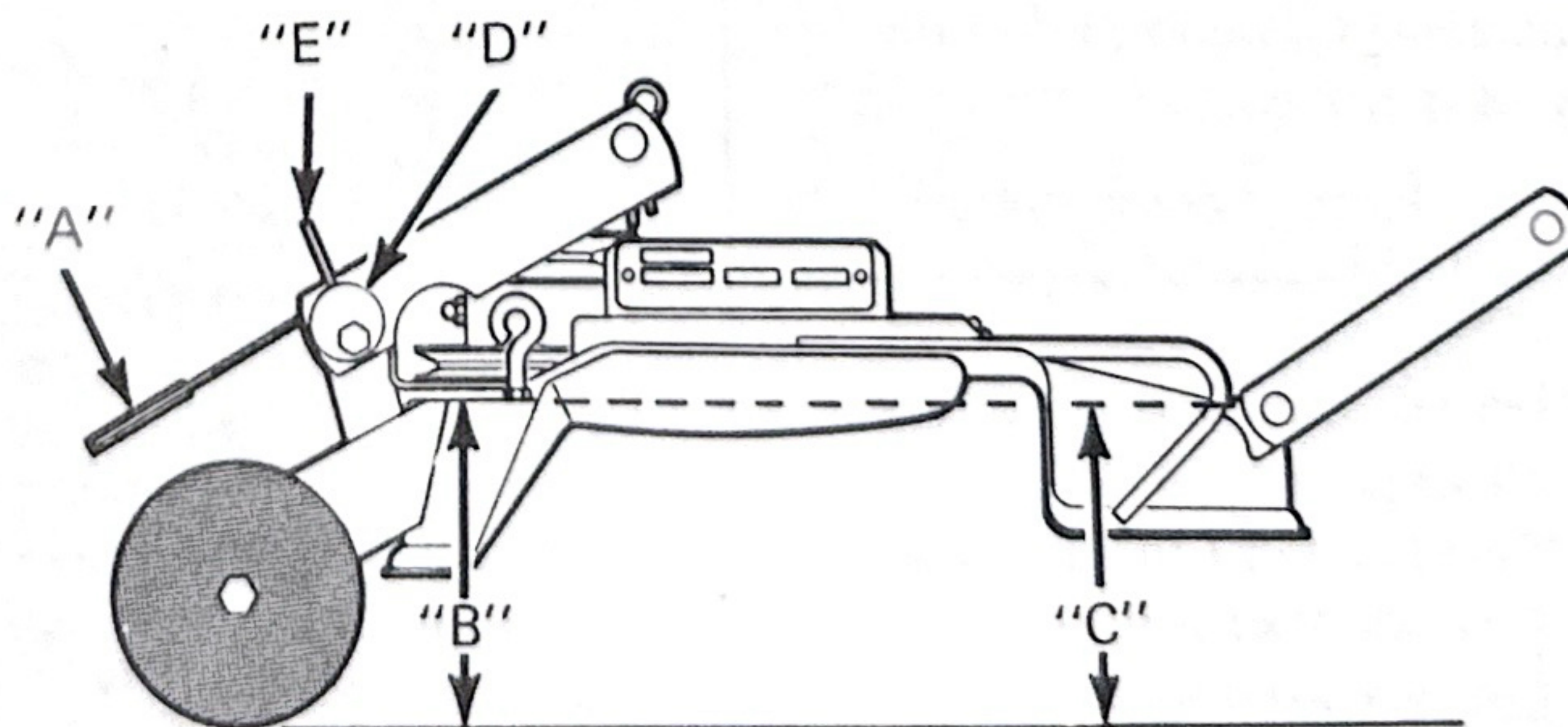


Fig. 4 - 32" MOWER SHOWN

ASSEMBLY (continued)

1. Be certain both gauge wheels, (A) Figure 5, are in the same cutting height position. See Figure 6 or 7.
2. Place mower on a level, flat surface.
3. Measure height, (B) and (C) Figure 4, along top surface of mower base, front and rear. If front of deck is lower than rear or more than 1/16 inch (1.6 mm) higher, adjustment is required. Go on to step 4. Measure both sides of mower deck as it is possible that only one side may need adjustment.
4. Loosen hex cap screw, (B) Figure 5, securing cam, (D) Figure 4 (one on each side of mower deck).
5. If front of deck is low, tap roll pin (E) forward. If front of deck is high, tap roll pin backwards. Check adjustments.
6. Retighten cap screws.

NOTE: Do not use mower deck as a step plate.

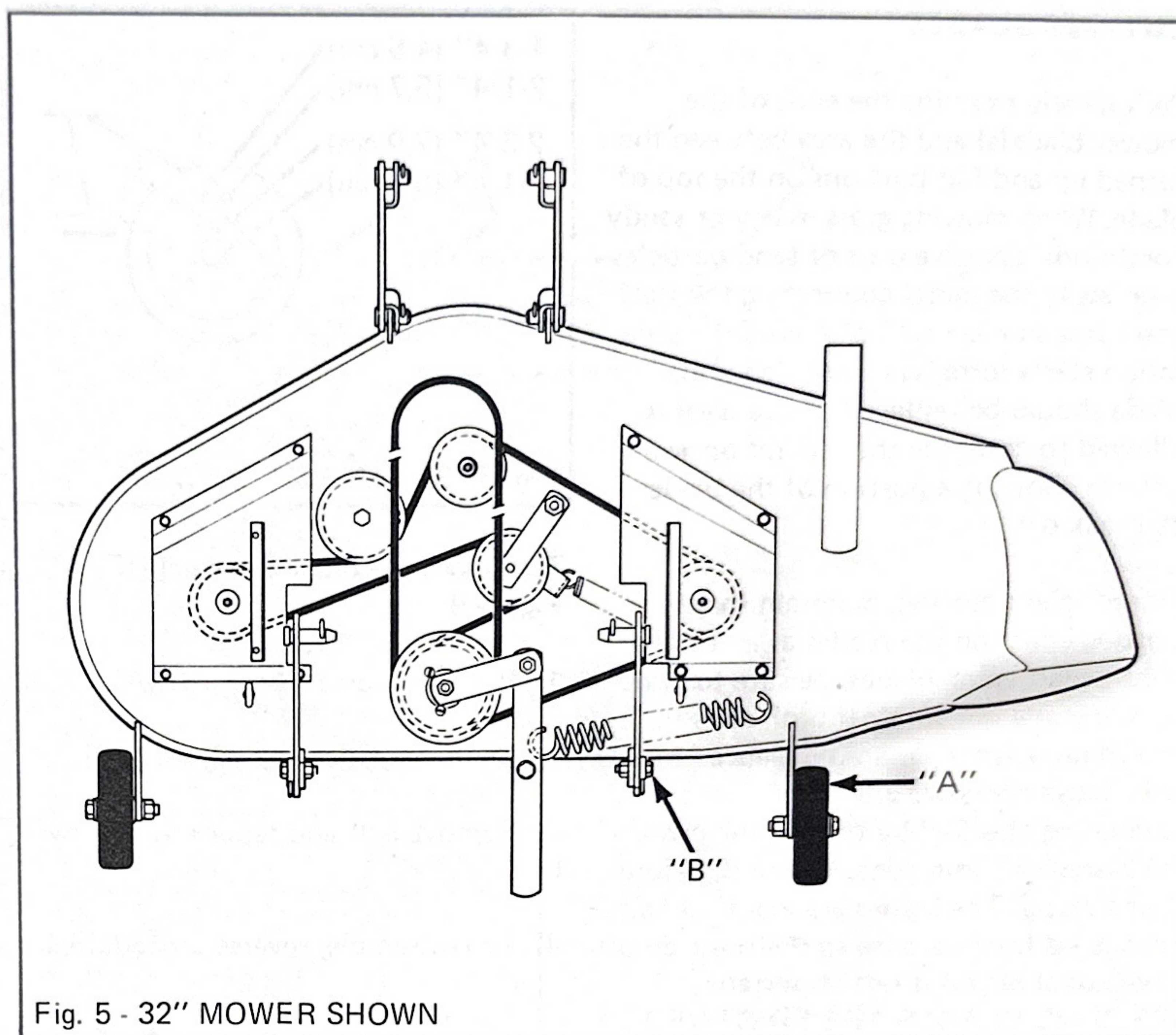


Fig. 5 - 32" MOWER SHOWN

OPERATION



CAUTION

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

There are two controls for operating the mower: a tractor power take-off (P.T.O.) lever for engaging the mower blades, and a lift lever for raising and lowering the mower.

Be sure the mower is disengaged before attempting to start the engine. Before engaging attachment drive move throttle lever to "Fast" position.

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 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 overloads.

TRANSPORT

For transport, disengage the tractor PTO and raise the mower to the highest position with the tractor's attachment lever.

HEIGHT OF CUT

The lift lever should be in the full forward position when mowing. This position will allow for maximum float. The cutting height is regulated by raising or lowering the two rear gauge wheels.

The approximate cutting heights are 1-3/4" (4.5 cm), 2-1/4" (5.7 cm), 2-3/4" (7.0 cm) and 3-1/4" (8.3 cm). See Figures 6 or 7.

OPERATION (continued)

CUTTING BLADES

Periodically examine the ends of the mower blade(s) and the area between the turned up and flat portions on the top of blade. When mowing grass in dry or sandy conditions, abrasive dust or sand particles wear away the metal connecting the flat and turned up portion of blade. If a separation starts forming in the blade, the blade should be replaced. If the wear is allowed to continue the separation will enlarge allowing a portion of the blade to break off.

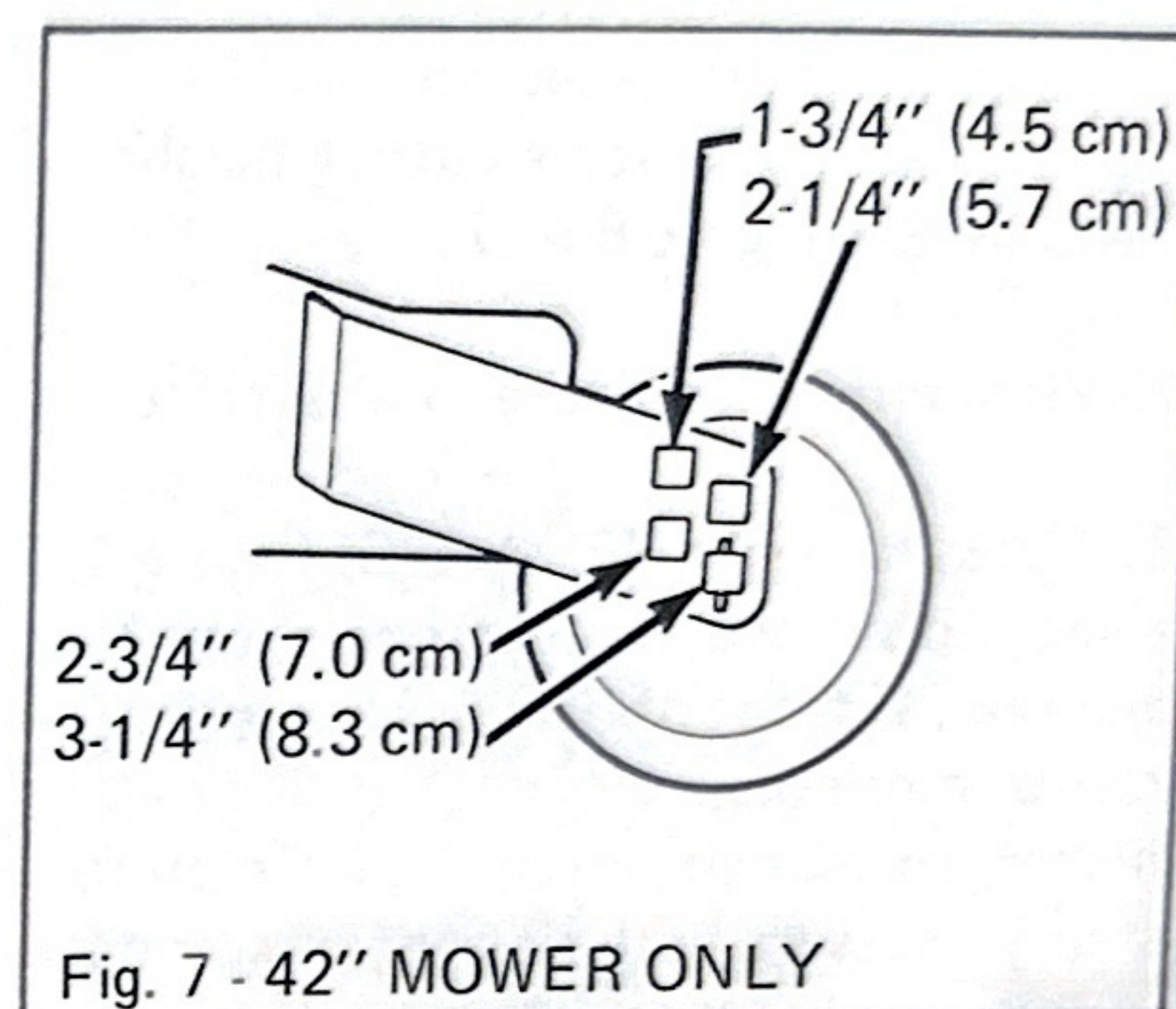
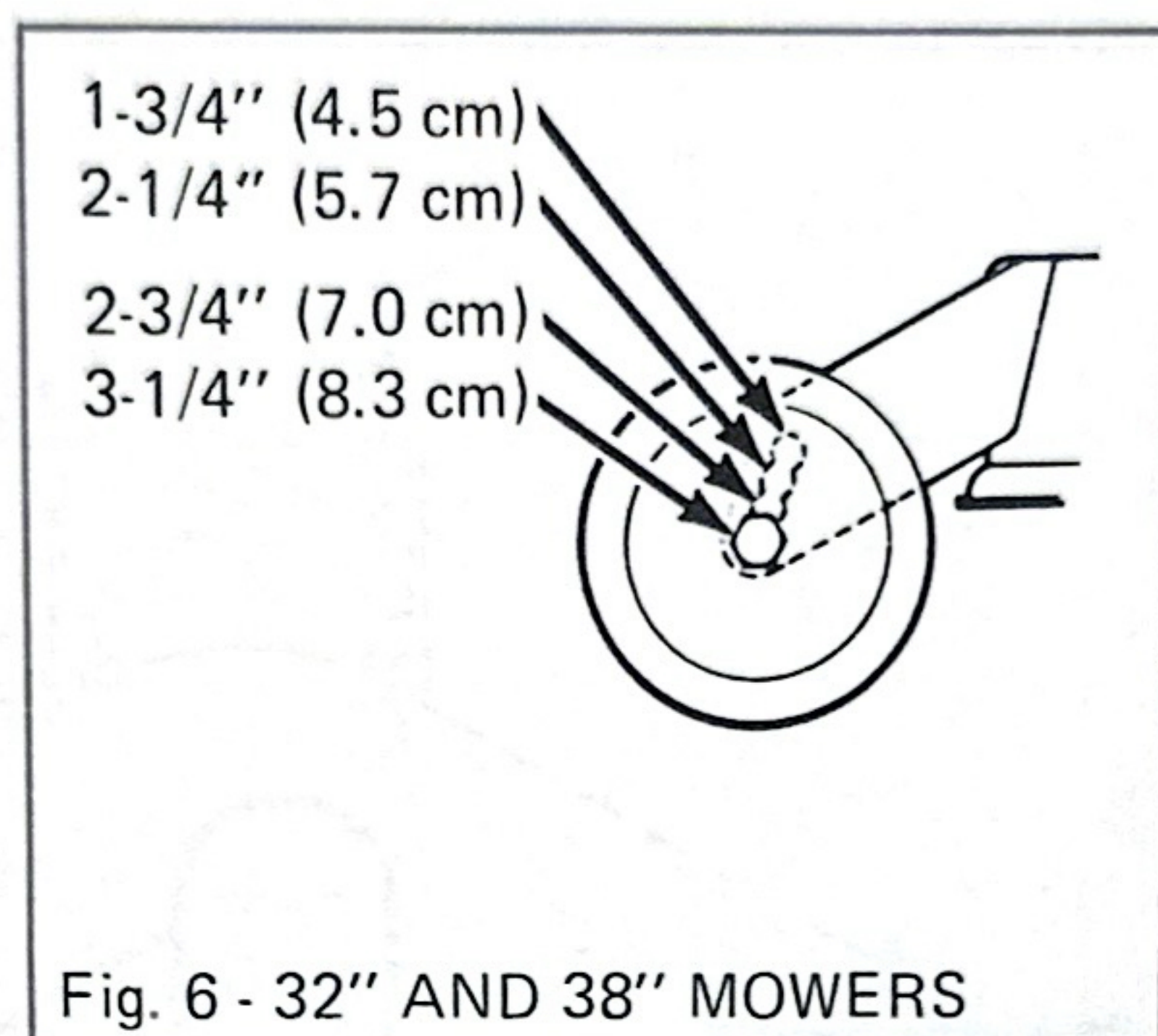
For efficient cutting, maintain sharp cutting edges on the blades at all times. When sharpening blades, be sure to grind or file equal portions off both ends to maintain balance, as an unbalanced blade will cause excessive vibration. The blades should be checked by placing the center of blade on a thin edge, Figure 8, before reinstalling. The blades are identical and staggered for clearance so the position of individual blades is not important. **BE SURE BLADES ARE FASTENED SECURELY AT ALL TIMES. CHECK PERIODICALLY. TORQUE TO 25 FT. LBS. (3.4 kgm).**

DRIVE BELTS

The mower has two drive belts. These belts are under constant spring tension and require no adjustments. (Fig. 9)

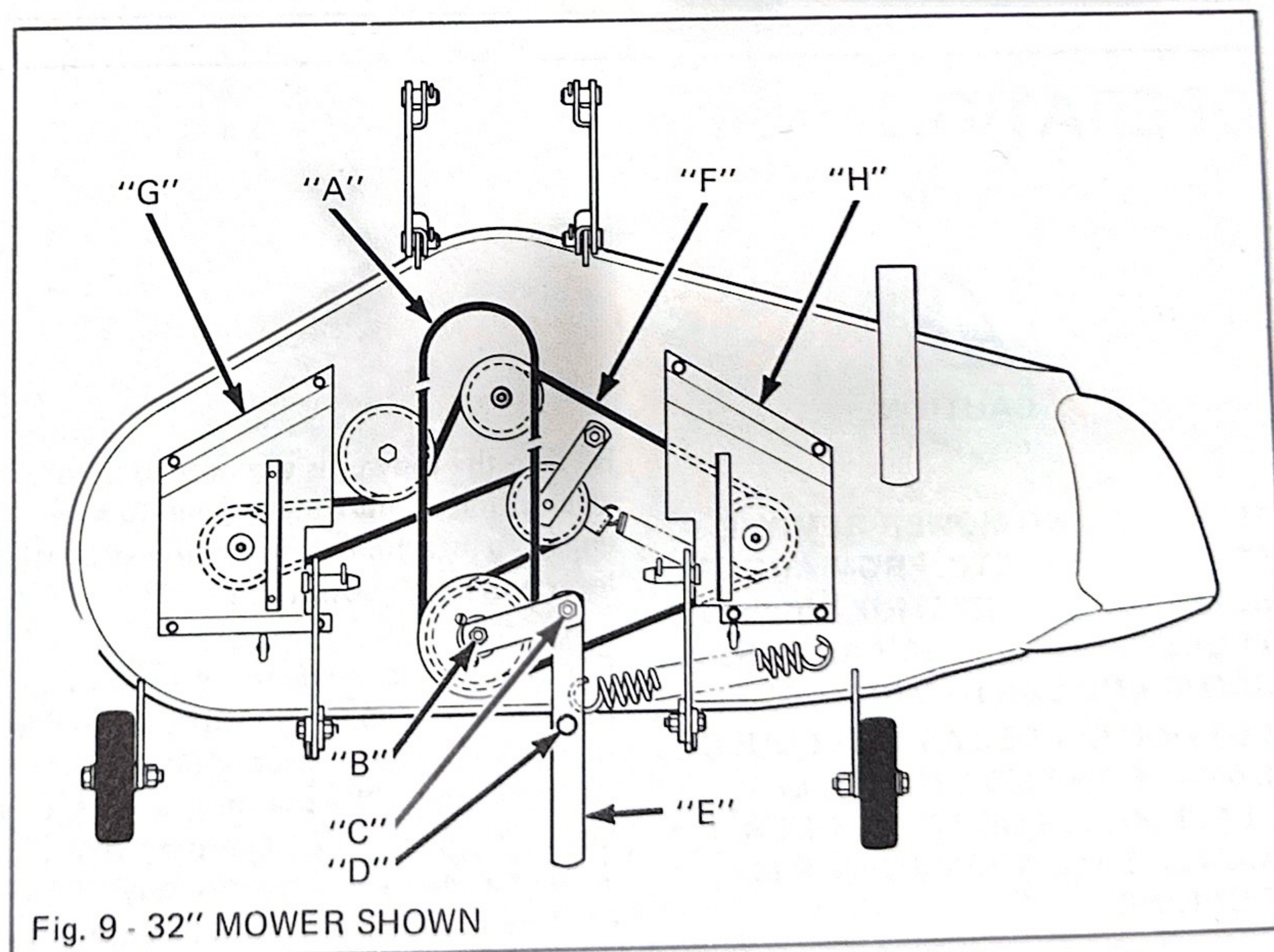
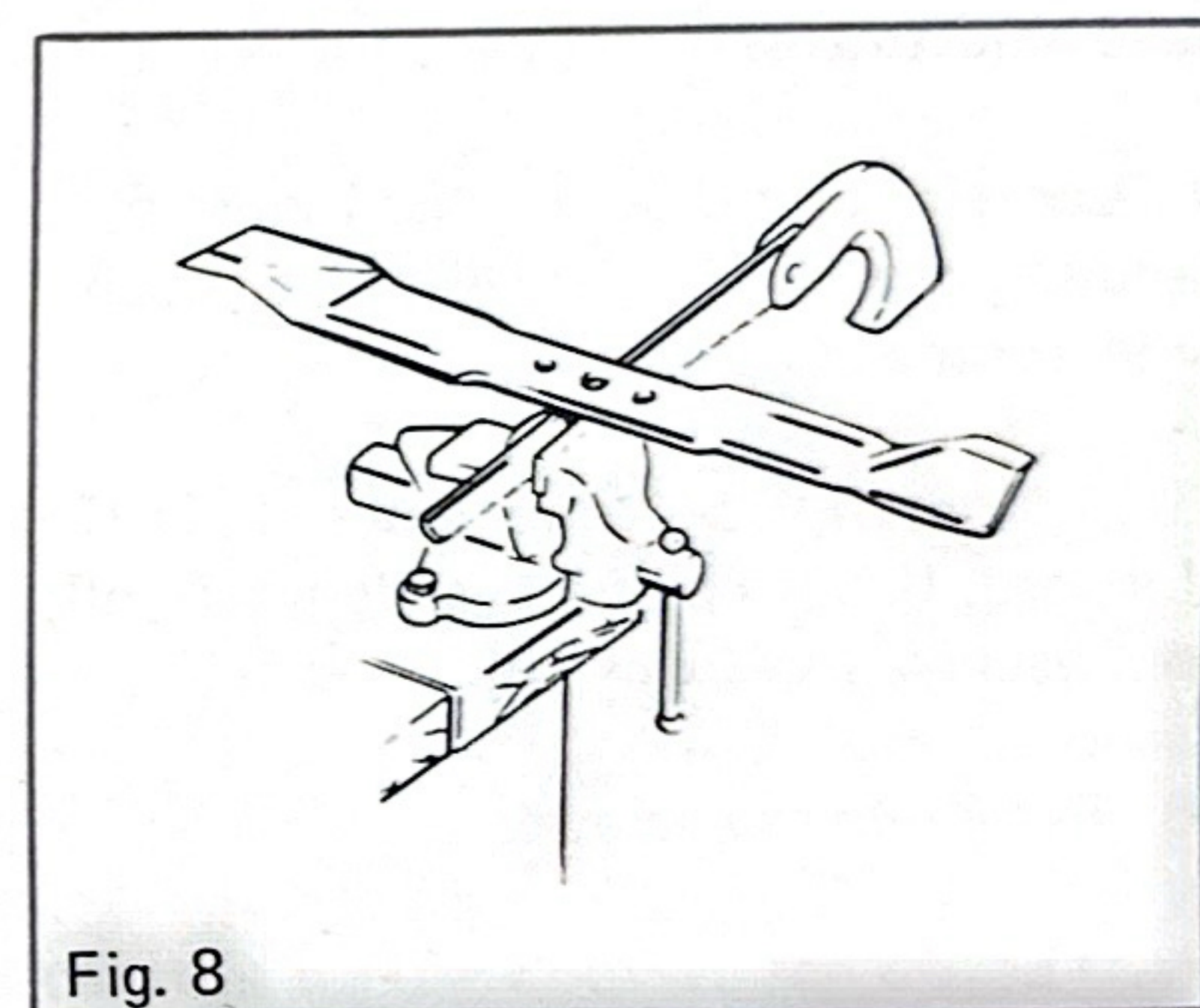
To replace the mower drive belt (A)
Figure 9:

1. Remove hex nuts (B) and (C) as well as cap screw (D).
2. Lift lever arm assembly (E) up away from pulley.
3. Remove belt and replace with new belt.
4. To reassemble, reverse procedure.



To replace the blade drive belt (F)
Figure 9:

1. Remove mower drive belt (A).
2. Remove belt covers (G) and (H).
3. Remove belt and replace with new belt.
4. To reassemble, reverse procedure.



MAINTENANCE

The mower has four grease fittings, one on each blade housing located on top of mower deck (A), Figure 10, and one on the input sheave (B). Lubricate these grease fittings every 8 hours of operation.

Oil all other working parts, especially the gauge wheels axles and idler arm pivots using a light grade of oil.

IMPORTANT

DO NOT oil cams as excess dirt may cause binding and loosening of cams.

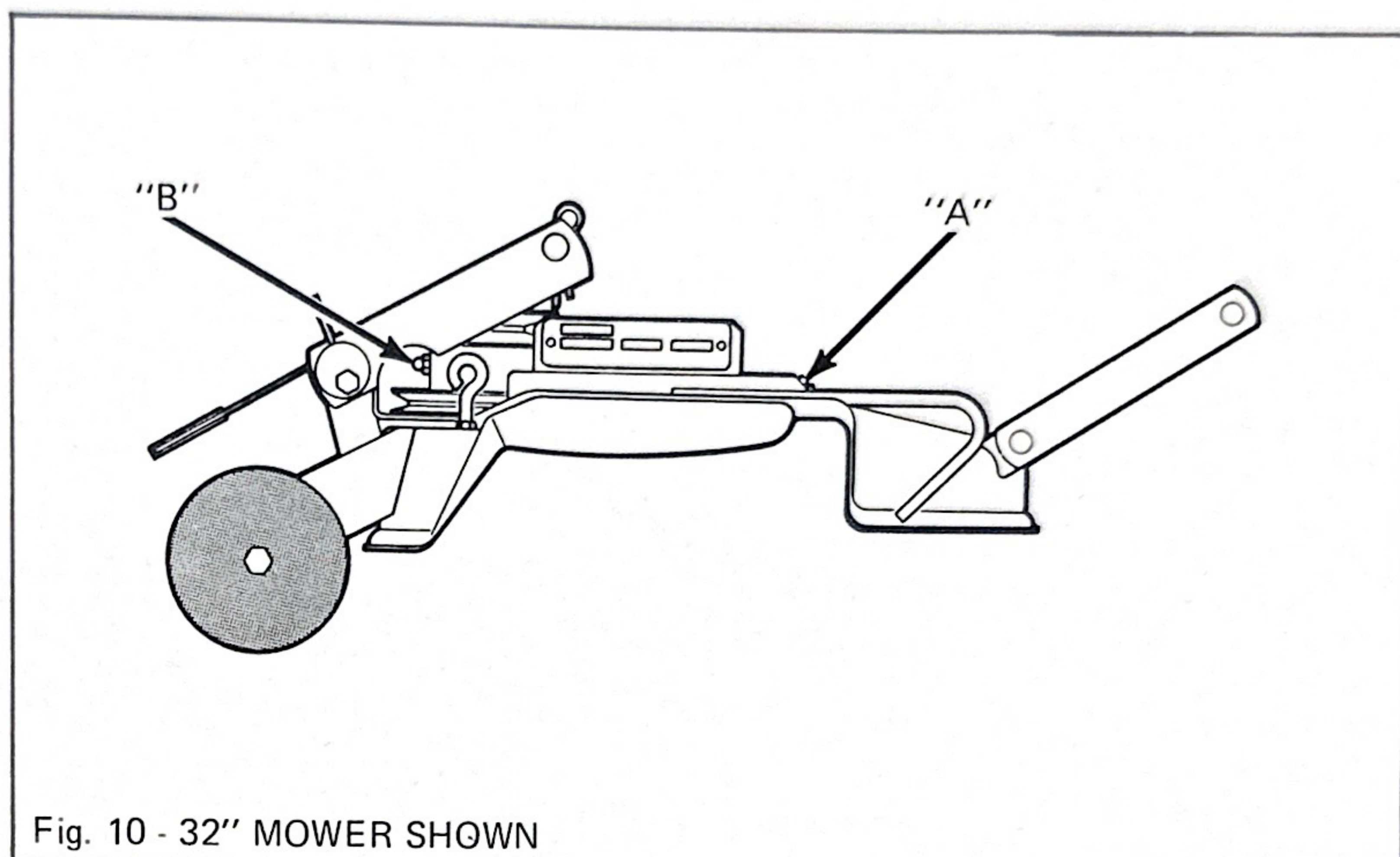


Fig. 10 - 32" MOWER SHOWN

FMC 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.

FMC Bolens' approval of the use of attachments manufactured by allied manufacturers is limited to assurance that

such use will not void FMC Bolens warranty on the FMC Bolens equipment to which the allied manufactured attachments are adapted. The responsibility for the design, performance, durability, safety in operation, service repair availability, and warranty obligation remain with the allied manufacturer. FMC Bolens specifically excludes from its

warranty obligation all such allied manufactured attachments.

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