



MODEL NO. 59283

**DEALER  
INSTALLATION  
INSTRUCTIONS**
**18" RECYCLER® II MOWER  
CONVERSION KIT**

**WARNING**

The Recycler® II Mower Conversion Kit must be installed ONLY by an Authorized Toro Service Dealer to ensure that the converted mower meets safety requirements. Sale of an uninstalled Recycler® II Mower Conversion Kit to a retail customer could involve your dealership in a liability lawsuit.

The Recycler® II Mower Conversion Kit fits all TORO 18" rear bagger mowers with model numbers beginning with 20XXX made in 1983 or later. Install kit only on units with blade/brake safety compliance features.

Do not attempt to install this kit on any mower other

than those recommended in this installation instruction sheet.


**WARNING**

Before installing the Recycler® II Mower Conversion Kit, check mower's safety systems (blade stopping devices, safety switches, controls) for proper operation. Make any repairs as needed. Refer to your Service Policy and Procedure Manual.

In order to install this kit, you will need the Recycler® Template Kit, Part No. 85-7430.

**Note:** When Recycler® II Mower Conversion Kit installation is complete, the Operating Instruction sheet must be given to the customer.

**RECYCLER® II MOWER CONVERSION KIT CONTENTS**

PART NUMBER	PART DESCRIPTION	QUANTITY
88-1120	Discharge Plug Assembly	1
49-8030	Discharge Tunnel - Inner	1
88-3350	Discharge Tunnel - Outer	1
88-1100	Spring Door - LH	1
88-1090	Spring Door - RH	1
33-0450	Spring - Latch	1
33-0441	Cover - Door	1
33-0412	Door	1
88-1800	Latch - Door	1
32144-112	Screw	1
32144-32	Screw - Thread Forming	2
85-7130	Kicker - Rear Right	1
85-7110	Kicker - Front Right	1
85-7140	Kicker - Rear Left	1
85-7120	Kicker - Front Left	1
32144-111	Screws (For Kickers)	8
86-5210	Blade	1
92-3075	Accelerator	1
39-5770	Decal - Danger	1
88-3360	Decal - Caution	1
92-8084	Decal - Caution	1
3315-786	Installation Instruction Sheet	1
3315-787	Operating Instruction Sheet (For Customer)	1

## PREPARE MOWER FOR INSTALLATION

### WARNING

- During installation of kit, metal filings, debris or other objects may fly into your face.
- Thrown objects could cause serious personal injury or death to operator or bystanders.
- Always wear protective safety glasses while installing kit.

1. Remove spark plug wire from spark plug.
2. Drain all gas from gas tank; refer to section "Draining Gasoline" in operator's manual for proper draining procedure.
3. Thoroughly clean off top of mower deck.
4. Tip mower on side. For mowers with a Tecumseh engine, tip mower on left side (spark plug side down). When tipping all other mowers on side, keep carburetor side up.
5. Using a metal scraper and/or wire brush, thoroughly scrape all debris from underside of mower deck. All debris must be removed to ensure kickers will fit snugly against deck.
6. Inspect deck for cracks, holes or excessive wear. If cracks, holes or excessive wear are found, do not install kit unless deck is replaced.

### DANGER

- A worn, cracked or damaged mower deck could break and a piece of deck could be thrown into operator's or bystander's area.
- A thrown object could cause serious personal injury or death to operator or bystanders.
- Inspect deck periodically for wear, cracks or damage.
- Replace a worn, cracked or damaged deck before installing kit.

7. Remove blade bolt, lockwasher and blade. Discard blade. Save blade bolt and lockwasher for reinstallation later.
8. Return mower to upright position.

## INSTALL DISCHARGE TUNNEL

**Note:** Determine left and right sides of mower by standing in normal operating position behind handles.

1. Remove (6) bolts securing old discharge tunnel to deck. Discard the old tunnel and save the (6) bolts for installation of new discharge tunnel.

2. Position new discharge tunnel and door assembly on deck (Fig. 1). Align holes in tunnel with holes in deck.

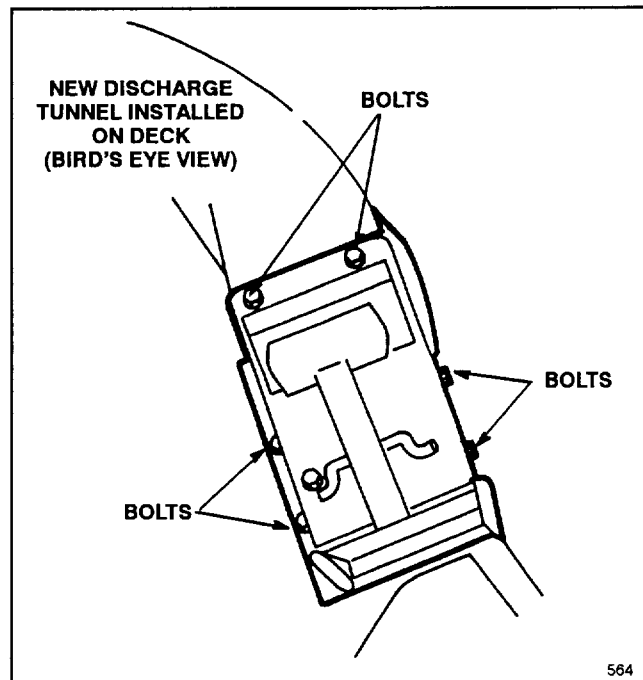


Figure 1

3. Secure the new discharge tunnel to deck using the (6) bolts removed from the old tunnel (Fig. 1). A socket set extension may be necessary to secure the front-left bolt (Fig. 2).

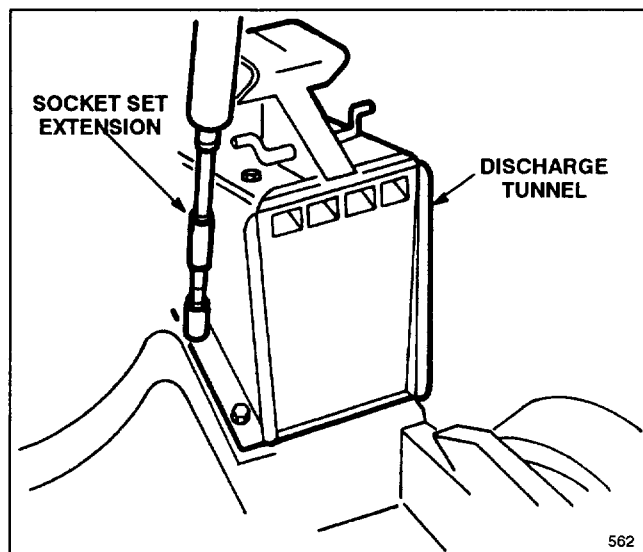


Figure 2

4. Open and close discharge tunnel door to ensure that it is moving freely. Make sure door closes securely when handle is released.

## PREPARING MOWERS WITH TECUMSEH TNT ENGINES FOR KICKER INSTALLATION

For mowers with a Tecumseh TNT engine, the air cleaner cover must be removed and the gas tank moved out of the way in order to mark and drill holes for kickers #85-7110, #85-7120 and #85-7130.

1. Drain all fuel from fuel tank; refer to Draining Gasoline section in the mower's Operator's Manual for proper draining procedure.
2. Remove the oil dipstick (Fig. 3).
3. Remove (2) screws securing gas tank to engine (Fig. 3).

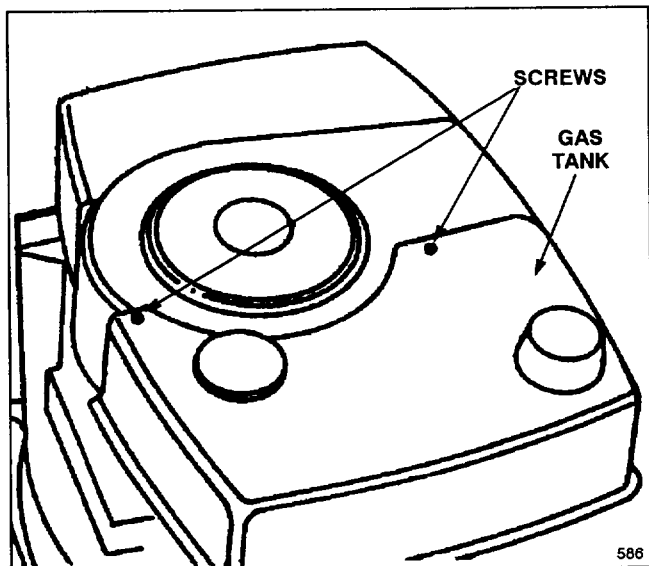


Figure 3

4. Lift the gas tank off the engine and rotate it out of the way, allowing it to hang from the fuel line (Fig. 4).

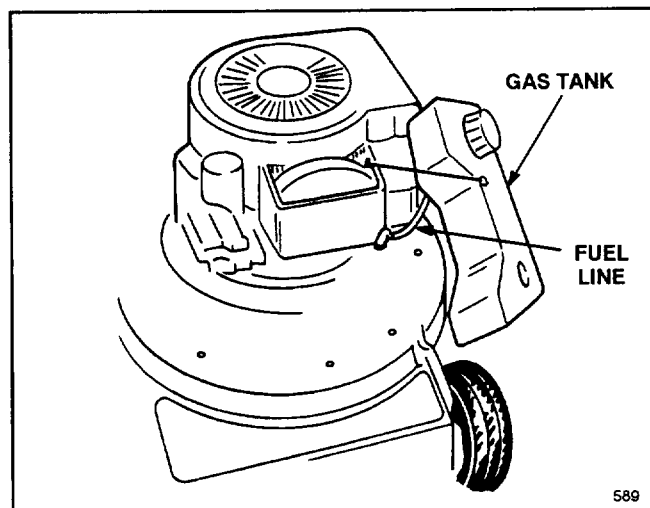


Figure 4

5. Remove the air cleaner cover (Fig. 5).

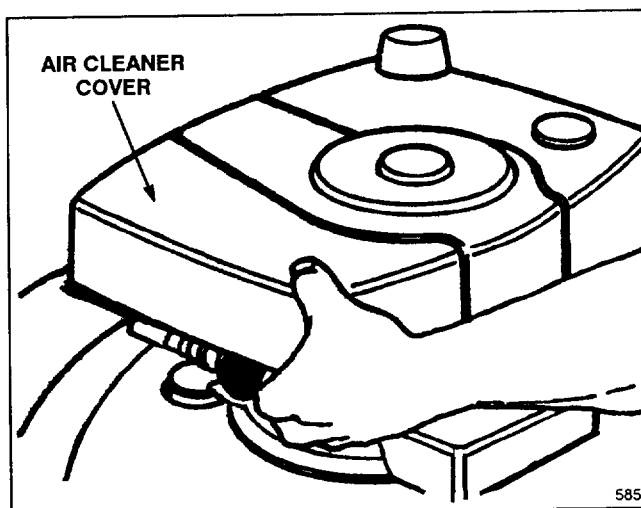


Figure 5

6. After the holes are drilled, reinstall the air cleaner cover and the gas tank.

## MARK AND DRILL HOLES

### WARNING

Recycler® II Mower Conversion Kit must be installed ONLY by an Authorized Toro Service Dealer to ensure that the converted mower meets safety requirements. Sale of an uninstalled Recycler® II Mower Conversion Kit to a retail customer could involve your dealership in a liability lawsuit.

Use the metal templates (Toro tool part #85-7430) only to mark locations where holes will be drilled through deck. **DO NOT DRILL THROUGH HOLES IN METAL TEMPLATES.**

Each metal template has been carefully designed to fit snugly against the deck in only one position. **BE SURE THAT TEMPLATE EDGES ARE FLUSH AGAINST DECK AS SHOWN IN FIGURES 6-10 WHEN MARKING HOLES.**

When marking holes, hold template firmly against deck, and use a metal punch to mark hole locations. If a template moves when marking first hole, carefully realign template and mark second hole.

**Note:** An automatic center punch will work best for marking holes.

1. Position template #86-8040 so that all tabs are **fully** contacting mower deck on surfaces indicated in Figure 6. Mark hole with metal punch and remove template.

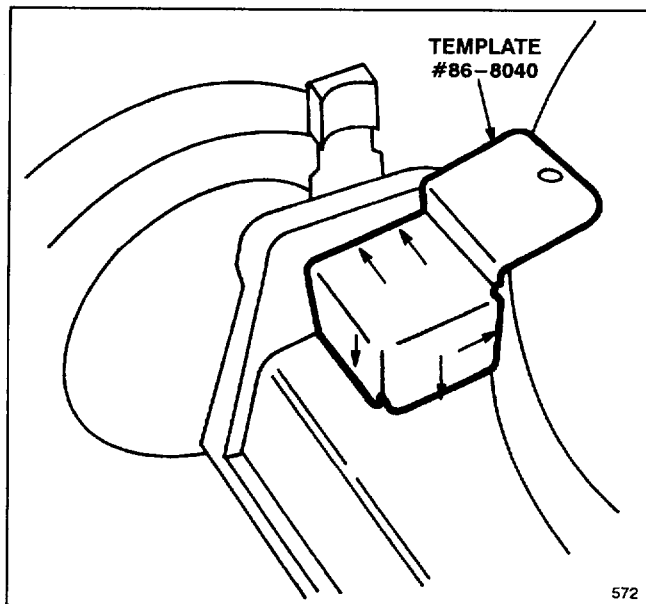


Figure 6

2. Position template #86-8020 so that all tabs are **fully** contacting mower deck on surfaces indicated in Figure 7. Mark holes with metal punch and remove template.

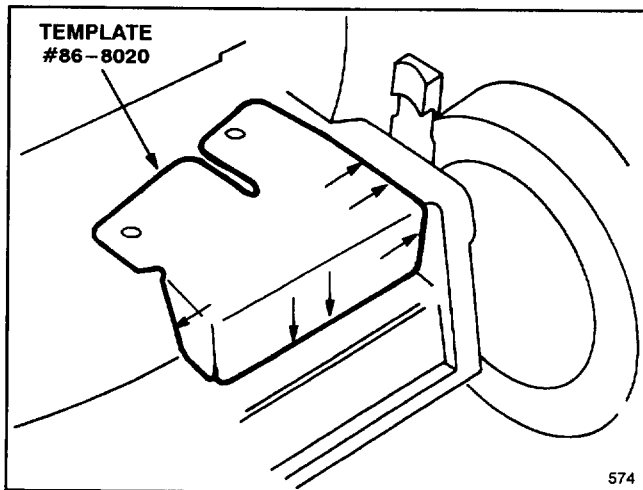


Figure 7

3. Position template #86-8010 so that vertical tabs are flush with outside of mower deck as shown in Figure 8. Mark holes with metal punch and remove template.

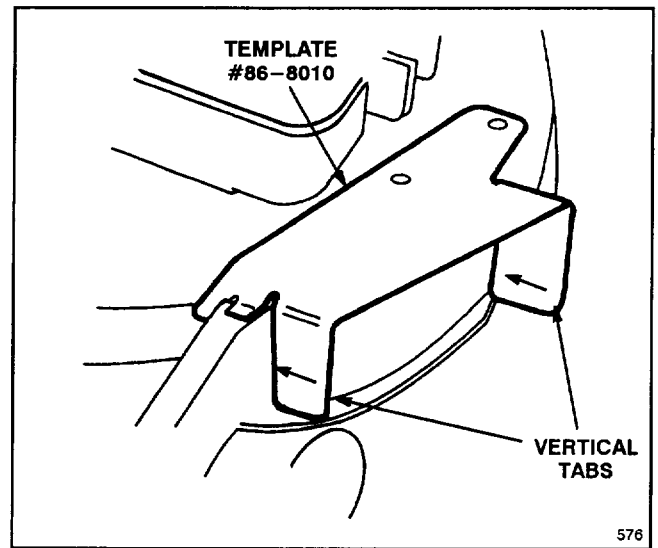


Figure 8

4. Position template #86-8030 so that all tabs are fully contacting mower deck on surfaces indicated in Figure 9. Mark holes with metal punch and remove template.

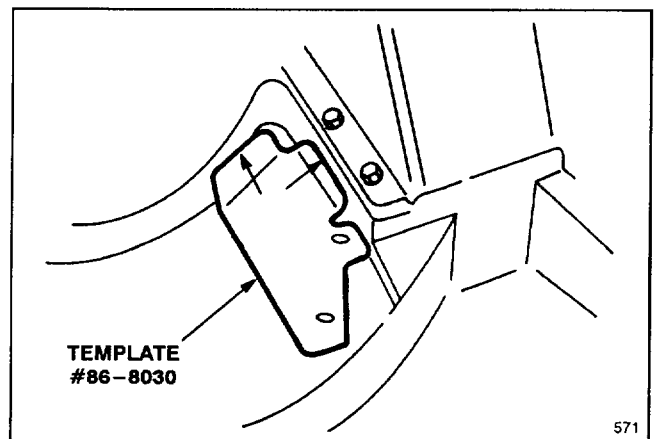


Figure 9

5. Position template #86-7940 over the right-front and left-front discharge tunnel bolts as shown in Figure 10. Mark hole with metal punch and remove template.

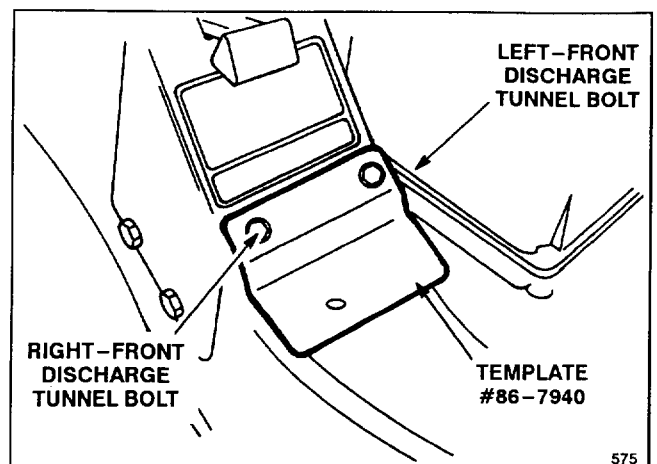


Figure 10

6. Using a sharp 13/64" metal drill bit, drill holes in deck (Fig. 11). Drill bit must be sharp to prevent it from walking.

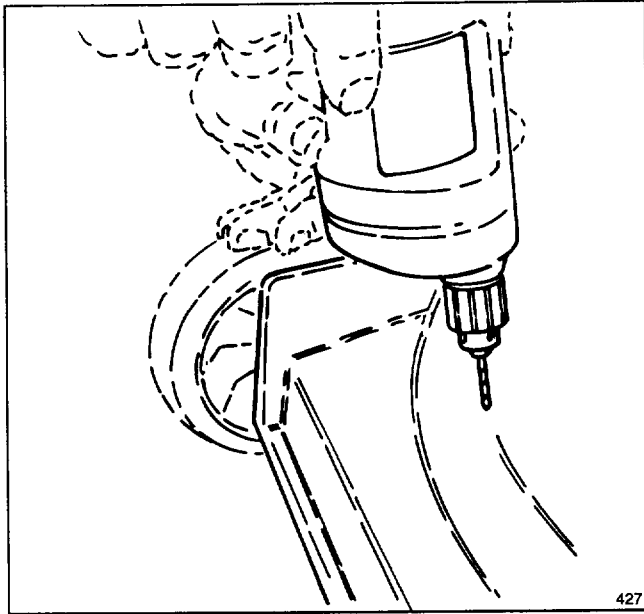


Figure 11

## INSTALL KICKERS

Each kicker fits on the deck in only one position and must be installed in that exact position. To help position kickers, match the last two digits of each template's part number with the last two digits of each kicker's part number. Part numbers are molded into kickers and stamped onto templates.

**NOTE: Once kickers are installed, they should never be removed, except for replacement.**

1. Set mower in highest height-of-cut setting. Kicker assembly should be possible without turning mower on side. If you are having difficulty installing kickers while mower is upright, turn mower on its side and install kickers. For mowers with a Tecumseh engine, tip mower on left side (spark plug side down). When tipping all other mowers on side, keep carburetor side up.

2. Position kicker #85-7140 firmly against underside of deck as shown in Figure 12. Align kicker holes with deck holes.

3. Insert first screw through deck and into kicker. Start screw in hole. Line up second hole, insert screw, and tighten securely in place. Tighten first screw securely.

**CAUTION:** Overtightening screws may cause stripping.

4. Position kicker #85-7120 as shown in Figure 13. Repeat step 3 to secure kicker to deck.

5. Position kicker #85-7110 as shown in Figure 14. Repeat step 3 to secure kicker to deck.

6. Position kicker #85-7130 as shown in Figure 15. Repeat step 3 to secure kicker to deck.

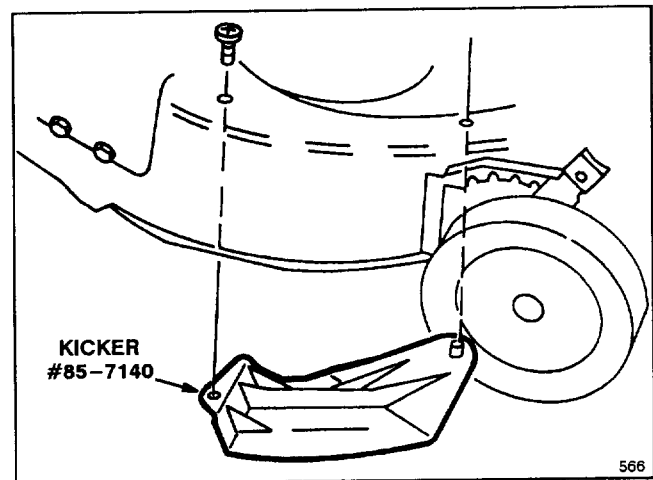


Figure 12

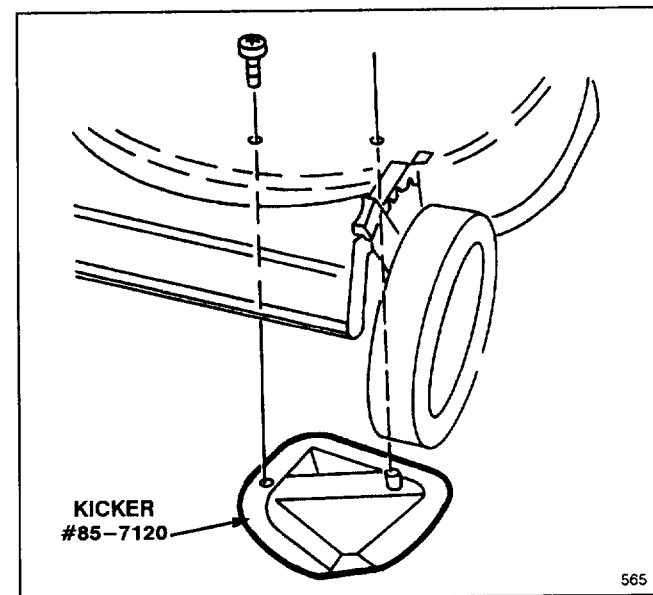


Figure 13

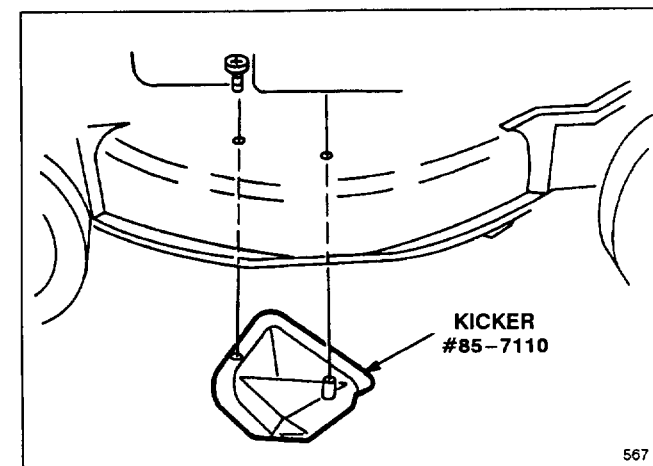


Figure 14

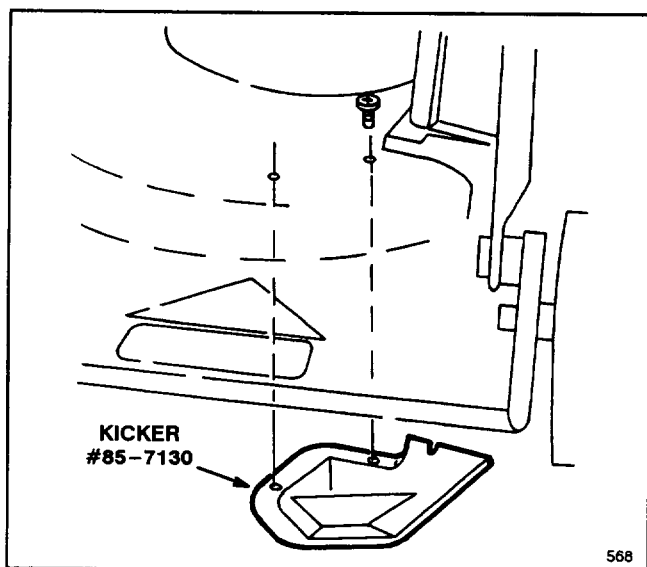


Figure 15

## INSTALL DECAL

1. Install new decal (P/N 92-8084) on rear of mower deck, behind discharge tunnel (Fig. 16).

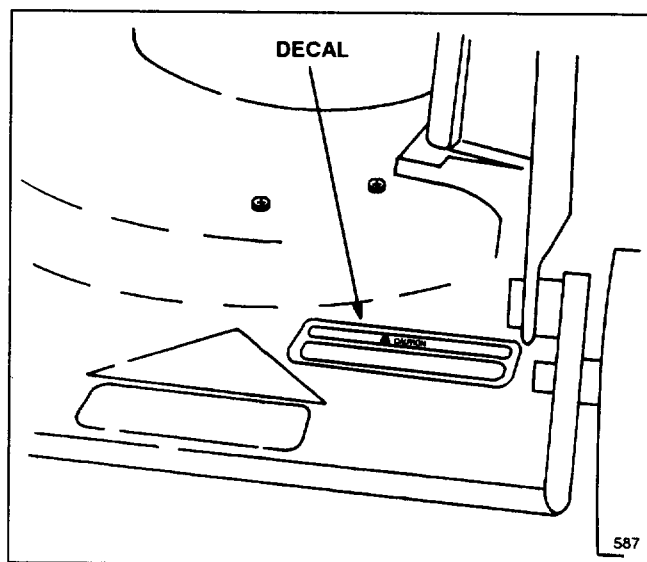


Figure 16

## INSTALL DISCHARGE TUNNEL PLUG

1. Open the discharge door by moving handle rearward (Fig. 17). Hold the discharge door handle to prevent the spring-loaded door from closing while inserting the plug.
2. A rotating motion is required to insert the plug into the discharge tunnel (Fig. 18). Begin by rotating the plug slightly to the left to insert it into the dis-

charge tunnel. As you slide the plug further into the tunnel, rotate the plug to the right.

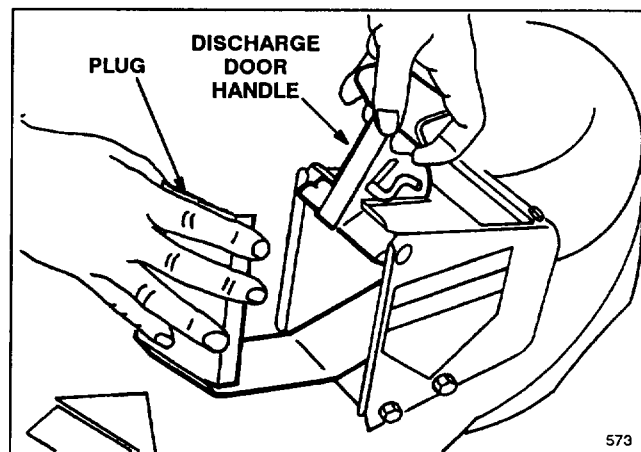


Figure 17

3. Push the plug all the way in until it fits securely into the discharge tunnel (Fig. 18). Release discharge door handle.
4. To remove the plug, move the discharge door handle rearward (Fig. 18). Rotate the plug to the left while pulling it up and out of the discharge tunnel.

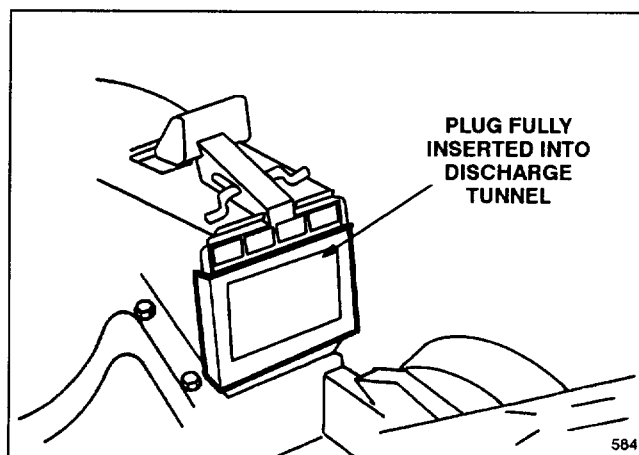


Figure 18

## INSTALL NEW BLADE

1. After all kickers have been installed, tip mower on its side. For mowers with a Tecumseh engine, tip mower on left side (spark plug side down). When tipping all other mowers on side, keep carburetor side up.
2. Inspect kicker fit to mower deck. If there are any gaps between kicker **mounting surface** and mower deck, tighten screws (Fig. 19).

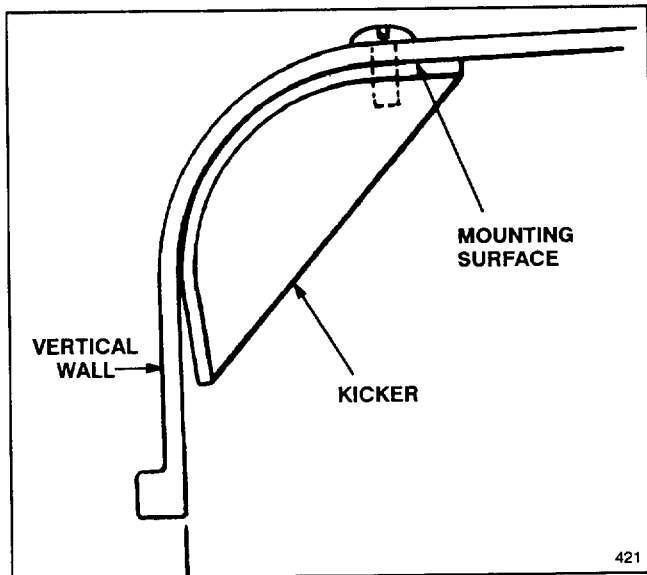


Figure 19

3. Place new blade and accelerator on mower (Fig. 20). Secure with fasteners removed previously. Tighten blade bolt to 50 ft-lbs.

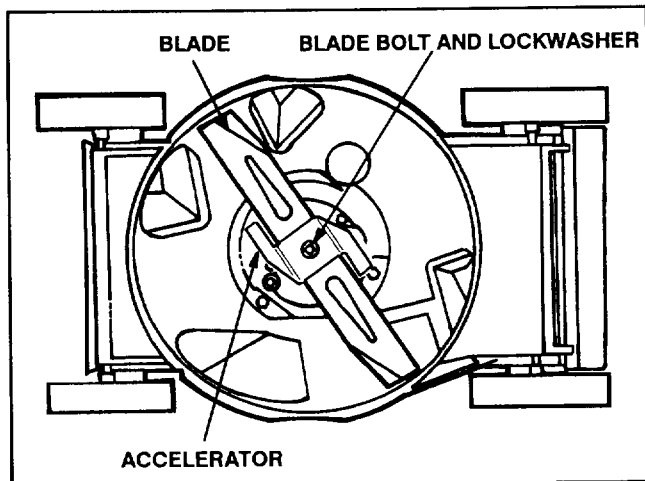


Figure 20

4. Have a helper hold the control bar against the handle. This allows the blade to rotate freely.
5. Using a rag or wearing gloves, rotate blade slowly by hand to ensure blade does not interfere with kickers and deck. If interference occurs, contact Toro Service Department.
6. Turn mower right side up.
7. Reconnect wire to spark plug.
8. Start engine and check mower safety systems to ensure that blade stops in 3 seconds or less.

## UPDATE OLD GRASS BAGS AND SIDE DISCHARGE CHUTES

Notches must be cut in the tabs on old grass bag doors and side discharge chutes in order to lock UPL-57467

these attachments onto the new Recycler® II mower discharge tunnel.



## WARNING

- Customers should **NOT** be allowed to modify grass bags or side discharge chutes.
- Contact with hacksaw during modification process could cause serious personal injury.
- Modification of grass bags and side discharge chutes must be performed **ONLY** by an Authorized Toro Service Dealer.

**Note:** Before updating an old grass bag or side discharge chute, inspect the attachment for any cracks, wear or other damage. If an attachment is cracked, worn or damaged, replace grass bag door or side discharge chute.

1. Measure a distance of 1.30 inches from the front tips of the grass bag tabs (Fig. 21) or side discharge chute tabs (Fig. 22).

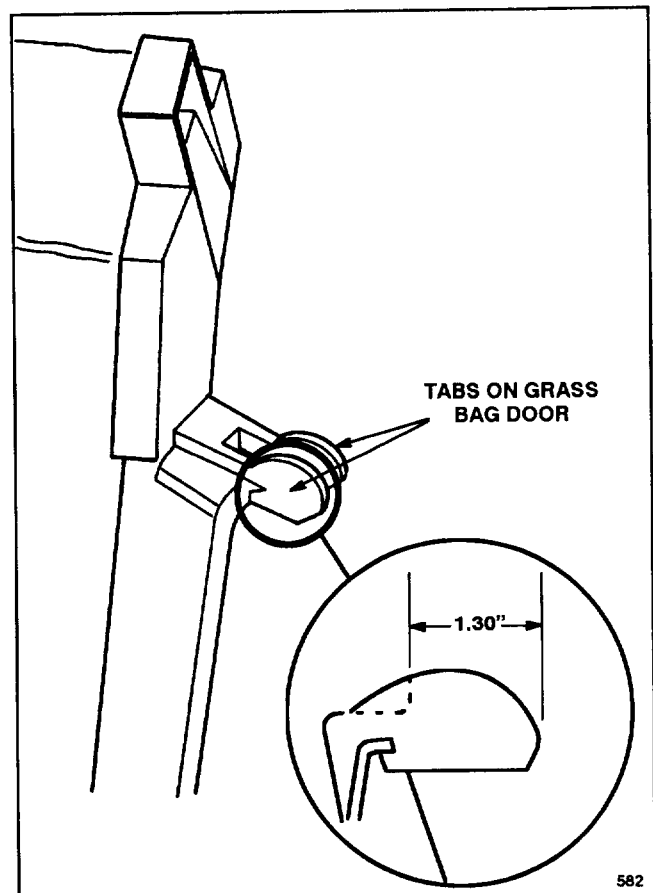


Figure 21

2. Using a hacksaw, cut 90° angle notches in tabs (Fig. 21 & 22).

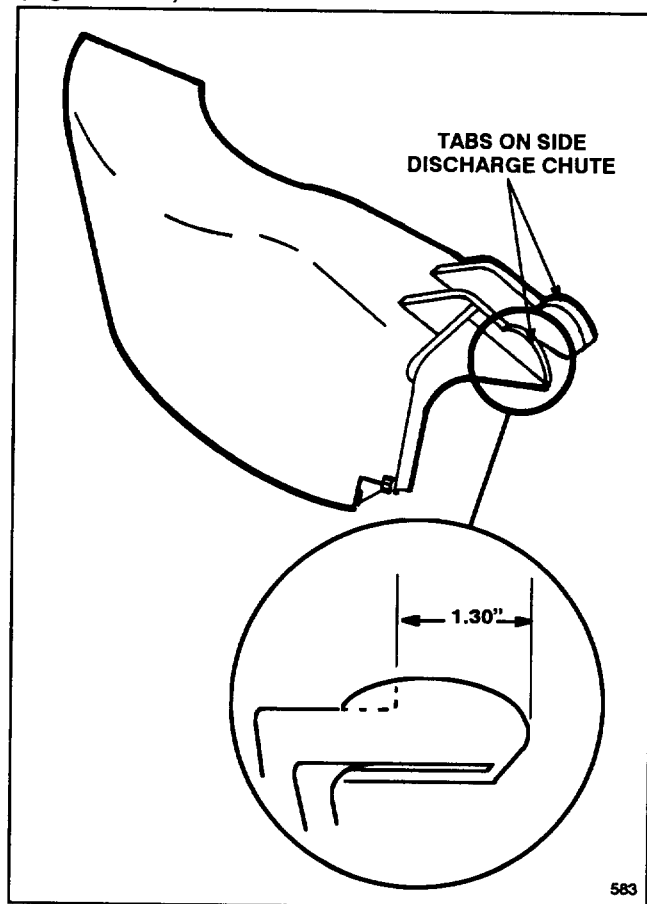


Figure 22