FORM NO. 3312-477

TORO

Model No. 03631

INSTALLATION INSTRUCTIONS

GRASS CATCHER KIT
(350 D)

INSTALLATION ON #2 – #5 CUTTING UNITS

1. Lower cutting units and shut engine off.

2. Remove U-bolts, lockwashers, and nuts securing lift arm pivot brackets to cutting units.

Note: Mark location of lift arm on cutting unit before removal, to aid in installation of cutting unit after kit is installed.

CAUTION

Lift arms are spring loaded! Have a helper assist you when removing or installing cutting unit from/to lift arm.

3. Remove self-tapping screws securing frame covers and #2 and #3 cutting unit tipper brackets. Remove covers and brackets (Fig. 1).

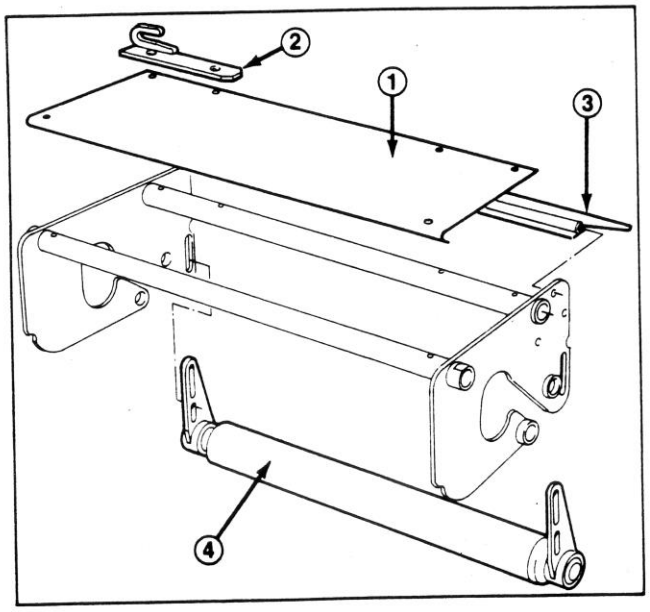


Figure 1

1. *Frame cover*
2. *Tipper bracket*
3. *Grass deflector*
4. *Rear roller*

4. Remove flange head screws securing grass deflector to frame (Fig. 1). Remove deflector.

5. Remove carriage bolts and nuts securing rear roller to side plates. Remove roller (Fig. 1).

6. Position rear grass shield on rear of cutting unit, with top of shield under crosstube and bottom of shield resting on bedbar (Fig. 2).

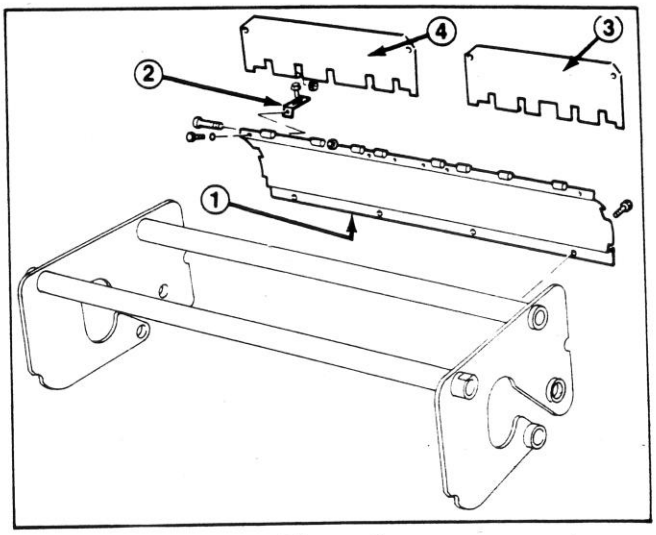


Figure 2

1. *Rear grass shield*
2. *Mounting tab*
3. *Short pivoting shield*
4. *Long pivoting shield*

7. Secure (2) mounting tabs to top of rear shield with ¼-20x.50" lg. capscrews and lockwashers (Fig. 2).

8. Loosely secure outside mounting tab (reel motor end) to crosstube with ¼-20x.75" lg. flange head capscrew (Fig. 2).

9. On #2 and #3 cutting units, loosely secure tipper bracket and mounting tab to opposite end of crosstube with self-tapping screws previously removed. Mounting tab to be positioned between tipper bracket and crosstube (Fig. 2). On #4 and #5 cutting units, secure remaining mounting tabs to crosstubes with ¼-20x.75" lg. flange head screws.

10. Using grass shield as a template, mark and drill (4) .228" dia. holes in bedbar (Fig. 2). Secure shield to bedbar with (4) ¼-20x.75" lg. self-tapping screws. Check to make sure there is clearance between grass shield and cutting unit reel.

11. Loosely install (1) short and (1) long pivoting shield to grass shield with (2) 5/16-18x2.00" lg. capscrews and locknuts (Fig. 2). (2 screws used for each shield). Short shield to be positioned on reel motor end of cutting unit.

12. Using dimensions shown in Fig. 3, locate and drill (2) .406" dia. holes in each side plate of cutting unit.

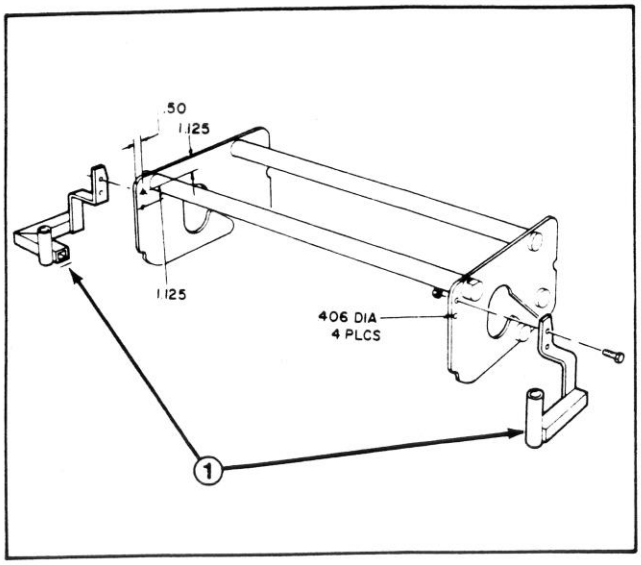


Figure 3

1. Support bracket

13. #2, #3, and #4 cutting unit basket support brackets are alike. #5 cutting unit has a unique set of brackets.

14. Mount appropriate set of basket support brackets to each cutting units side plates with 5/16-18x1.00" lg. capscrews and locknuts. Position tube end of bracket to front of cutting unit (Fig. 3).

15. Using dimensions shown in Fig. 4, locate and drill (2) .257" dia. holes in top of lift arms.

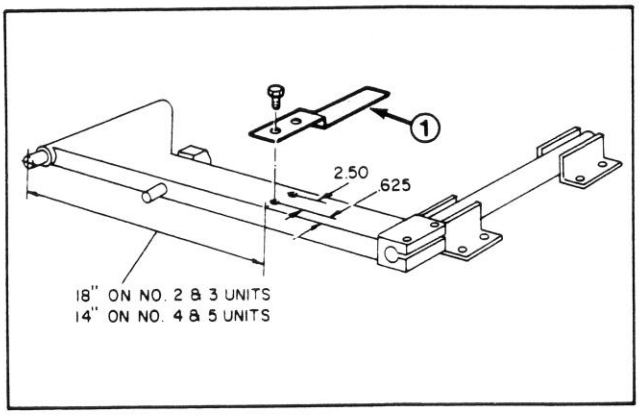


Figure 4

1. Swing bracket

16. Mount swing bracket to lift arm with (2) 5/16-18x.75" lg. self-tapping screws (Fig. 4). Position bracket so bend is down and toward the front of lift arm.

17. Position shield bracket on rear cross tube and loosely secure to rear shield with (2) ¼-20x.50" lg. capscrews and lockwashers (Fig. 5).

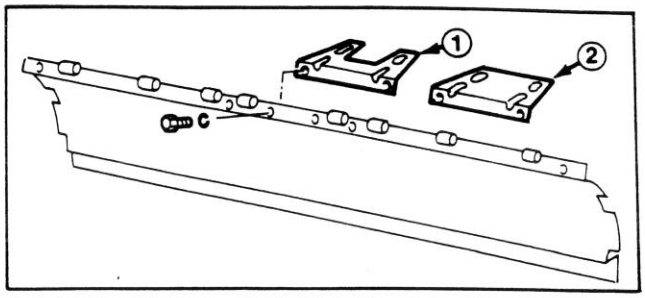


Figure 5

1. Shield bracket (with cutout)
2. Shield bracket (without cutout)

Note: Shield bracket with cutout is used on machines equipped with pivoting lift arms, and shield brackets with no cutouts are used on machines with straight lift arms.

18. Before installing #2 and #3 cutting units to lift arms, cut off rear outside corners of front fenders using dimensions shown in Fig. 6. Remove any burrs or sharp edges after cutting.

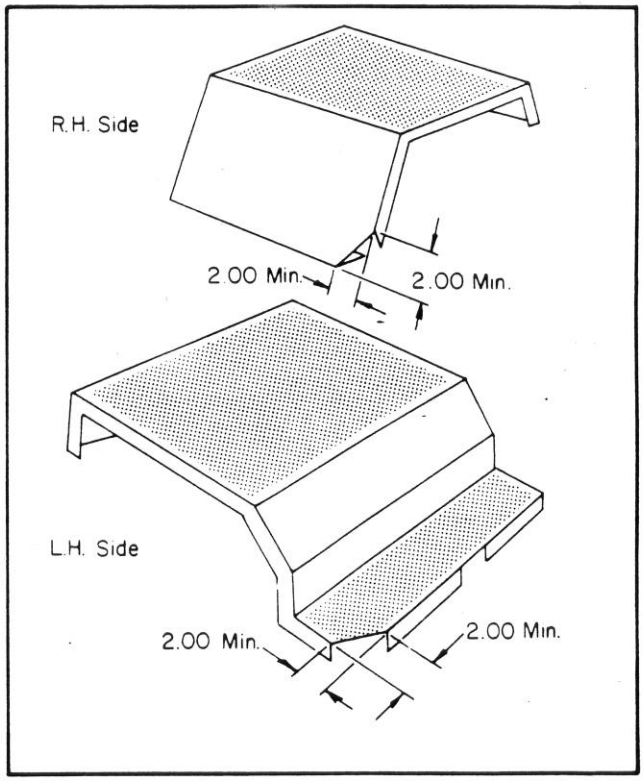


Figure 6

19. Mount lift arm to crosstube and shield bracket with U-bolts, lockwashers, and nuts. Check to make sure cutting unit is properly aligned on lift arm.

20. Tighten all fasteners.

21. Mount right and left spring brackets to shields designated in Fig. 7 & 8, and secure with 5/16-18 locknuts. Adjust bracket to desired angle of dispersion (approx. 30°) and tighten nut. Brackets are not used on all shields.

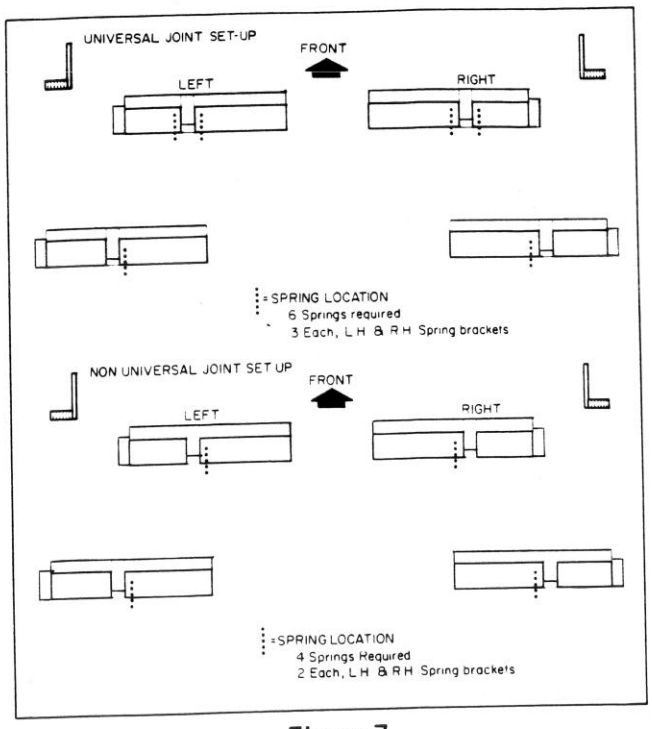


Figure 7

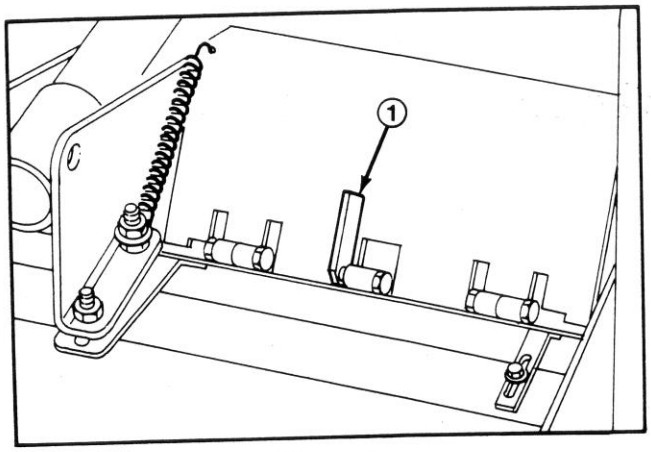


Figure 8

1. Spring bracket

22. Hook springs to shields designated in Fig. 7 & 8, and secure to front of rear U-bolt with washer and 8mm nut. Springs are not used on all pivoting shields.

23. Reinstall rear roller.

INSTALLATION ON #1 CUTTING UNIT

1. To ease installation, #1 cutting unit may be removed.

2. Remove flange head capscrews securing grass deflector to sideplates.

3. Remove serial plate and remount elsewhere on cutting unit.

4. Using dimensions shown in Fig. 9, locate and drill a .406" dia. hole in each side plate.

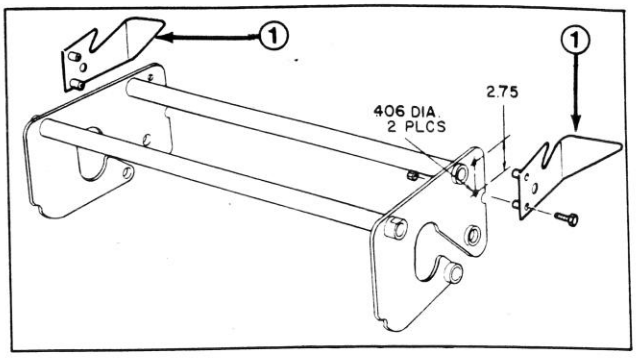


Figure 9

1. Camplate

5. Position camplates on cutting unit sideplates so spacers are toward sideplates, notches are up and camplates curve outward (Fig. 9). Secure top of camplate to sideplate and grass deflector with 3/8-16x2.25" lg. capscrews and bottom of camplate with 3/8-16x2.25" lg. capscrews and locknuts.

6. Remove capscrew securing axle pivot pin to rear frame. Secure rear support bracket to axle pivot and frame with m8x30 capscrew (Fig. 10).

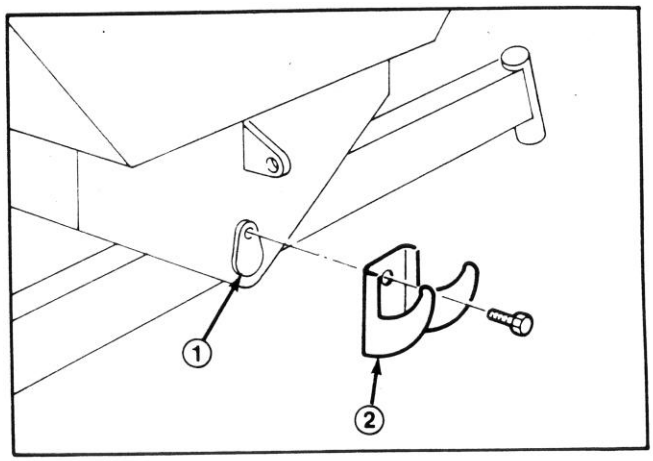


Figure 10

1. Axle pivot pin
2. Rear support bracket

7. Thread 3/8-16 locknut onto rear support. Thread rear support into square tube at rear of grass catcher (Fig. 11).

8. Mount grass catcher to cutting unit by sliding front mounting pins of catcher onto cam plates until locked into place. Raise rear of catcher and hook rear support onto support bracket. Adjust support by rotating to front or rear position and tightening locknut. If necessary, rear support may be bent to align with support bracket (Fig. 11 & 12).

9. Mount shrouds (material) to outside of shroud brackets with shroud plates and (4) ¼-20x.75" lg. capscrews and locknuts as shown in Fig. 12.

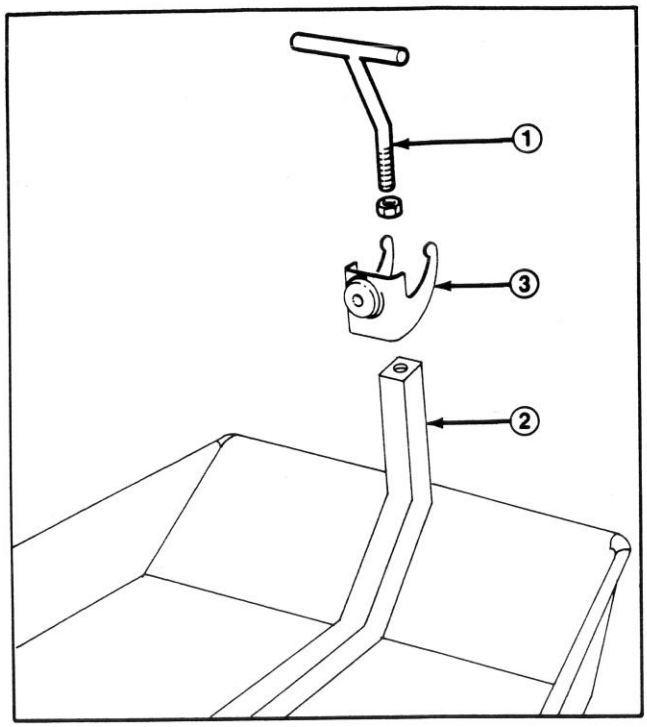


Figure 11

1. *Rear support*
2. *Grass catcher tube*
3. *Rear support bracket*

10. Position shroud brackets under frame aligning them with angle of catcher sides. Shroud material should hang approximately ½" from inside of side of catcher and extend to rear tierod (Fig. 12).

11. Using each bracket as a template, mark and drill (2) .228" dia. holes in frame. Secure brackets to frame with ¼-20x.75" lg. self-tapping screws (Fig. 12).

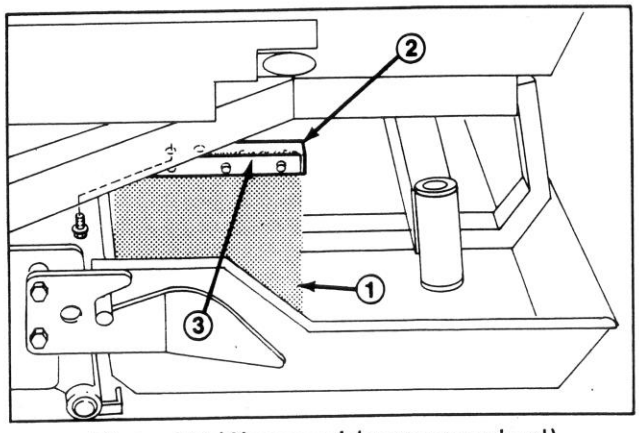


Figure 12 (Shown without rear wheel)

1. *Shroud material*
2. *Shroud bracket*
3. *Shroud plate*

ASSEMBLE BASKETS

1. Mount basket angle to basket assemble with (3) ¼-20x.50" lg. capscrews, locknuts, and mounting clips as shown in Fig. 13. Position basket angle perpendicular to basket.

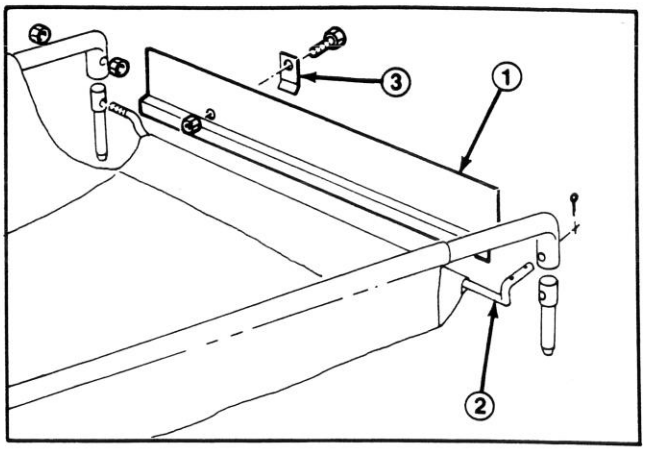


Figure 13

1. *Basket angle*
2. *Basket assemble*
3. *Mounting clip*

2. Mount baskets to #2 - #5 cutting units by sliding mounting pins into support bracket tubes.

Note: If adjustment is necessary for mounting, loosen nuts on rod, move tube in or out to obtain desired distance between mounting pins and tighten nuts.

MOUNT TIE DOWN BRACKETS

When cutting units must be raised to transport position, baskets must be removed. Store baskets on engine hood and secure with rubber tie downs.

1. Using dimensions shown in Fig. 14 & 15, locate and drill (4) .344" dia. holes in panel behind seat, and (2) .344" dia. holes in each side of engine hood.

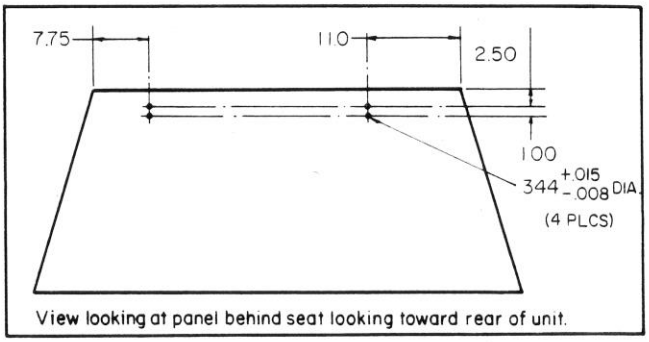


Figure 14

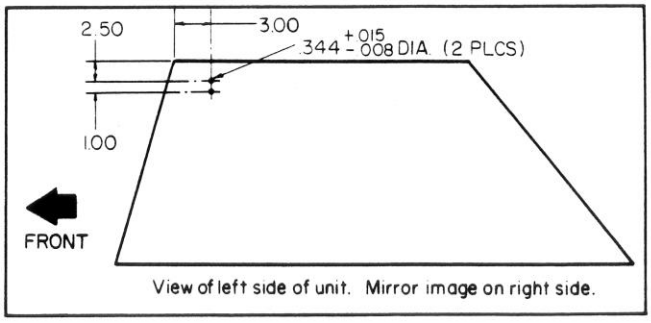


Figure 15

2. Mount tie down brackets to panel and engine hood with 5/16-18x1.00" lg. capscrews and locknuts.

3. Place baskets on top of engine hood between brackets. Hook rubber tie down to brackets from side to side, and from front brackets to rear flange of engine hood to secure baskets.

Note: Grass catcher on #5 cutting unit need not be removed to transport, but note reduction in ground clearance.