



MODEL NO. 30702
MODEL NO. 30703
MODEL NO. 30704

INSTALLATION INSTRUCTIONS

DELUXE WEIGHT TRANSFER KIT

(For 52", 62" & 72" Cutting Decks)

LOOSE PARTS CHART

DESCRIPTION	QTY. (52" Kit)	QTY. (62" & 72" Kit)	USE
Weight Transfer Assembly	1	2	Transfers weight to tractor
Adapter Bar *	0	*1	Adapts bracket to 217D & 220
Capscrew, 3/8" X 2-1/4"	2	0	Secures Mounting Bracket
Capscrew, 3/8" X 2-1/4"	0	4	Secures Adapter Bar
Capscrew, 3/8" X 1"	0	4	Secures Mounting Bracket
Nut	4	10	Fastens Screws & Bolts
Mounting Bracket	1	2	Attaches Weight Transfer Assembly top
Lock Pin	1	2	Secures Weight Transfer Assembly top
Self Tapping Screw	1	2	Fastens Lock Pin
Knee Link	1	2	Attaches Weight Transfer Assembly bottom
Shoulder Bolt	2	4	Secures Knee Link
Flatwasher	2	4	Use with Shoulder Bolt

*Not Included in kit, Order TORO part no. 66-8210

INSTALLING WEIGHT TRANSFER KIT

NOTE: The cutting deck and carrier frame should be installed to tractor before attempting installation of weight transfer kit.

1. Lower the cutting deck all the way down onto a flat level surface. Turn the ignition switch off and remove the key.

2. Remove the weight transfer assembly(s) and loose parts from the shipping carton. Make sure all parts are included in kit.

3. FOR 52" CUTTING DECKS - To install a weight transfer kit on either a GROUNDMASTER® 217D or 220, use (2) 3/8" X 2-1/4" capscrews and nuts to secure mounting brackets directly to tractor frame. Use the correct existing mounting holes for the specific size deck (Fig. 1). Tighten capscrews and nuts to 45-50 ft. lbs. and proceed to step 5.

To install a weight transfer kit on a GROUNDMASTER 220D, use (2) 3/8" X 1" capscrews and nuts to secure mounting bracket directly to tractor frame (Fig. 2). Use the correct existing mounting holes for the specific size deck (Fig. 3). Tighten capscrews and nuts to 45-50 ft. lbs. and proceed to step 5.

NOTE: On a GROUNDMASTER 217D or 220 the mounting bracket angles downward (Fig. 1). On a GROUNDMASTER 220D the mounting bracket angles upward (Fig. 2).

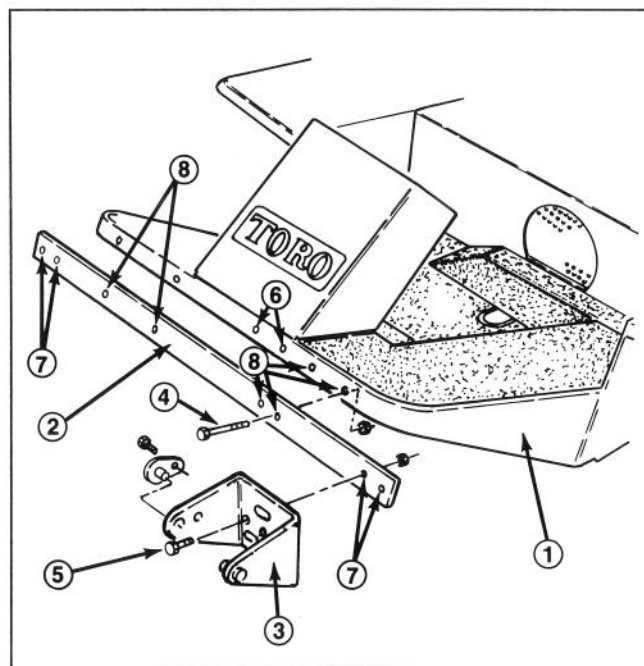


Figure 1

1. 217D or 220 frame.
2. Optional, adapter bar for 62" & 72" decks.
3. Mounting bracket (1 for 52" deck) (2 for 62" & 72" decks).
4. 3/8" X 2-1/4" capscrew & nut (2 for 52" deck) (4 for 62" & 72" decks).
5. 3/8" X 7/8" capscrew & nut (4) for 62" & 72" decks.
6. 52" deck mounting hole (2).
7. 62" & 72" deck mounting hole (4).
8. Adapter bar and frame bolt hole (8).

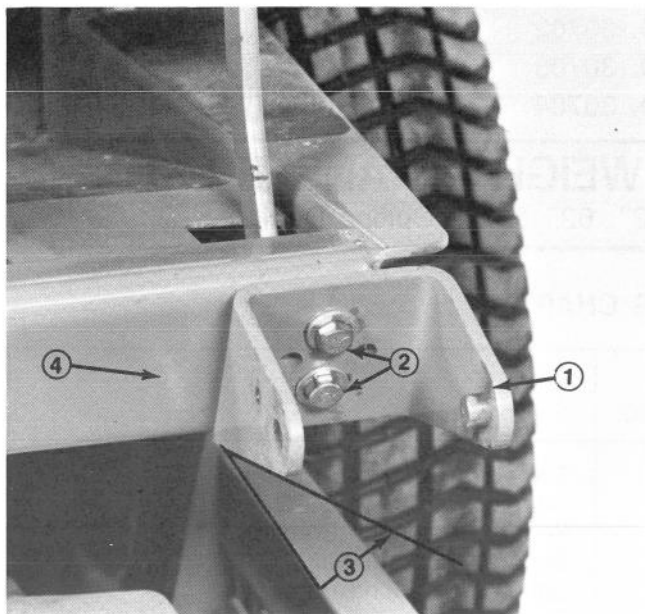


Figure 2

1. Mounting bracket.
2. Capscrew, Flatwasher and locknut (2 per bracket).
3. Bracket angled up on 220D.
4. 220D front frame.

4. FOR 62" & 72" CUTTING DECKS – To install a weight transfer kit on either a GROUNDMASTER 217D or 220, use (4) 3/8" X 2-1/4" capscrews and nuts to secure adapter bar (optional – not included in kit) directly to tractor frame. Use the correct existing mounting holes for the specific size deck (Fig. 1). Tighten capscrews and nuts to 45–50 ft. lbs.

Use (4) 3/8" X 1" capscrews and nuts to attach mounting brackets to adapter bar (Fig. 1). Tighten capscrews and nuts to 45–50 ft. lbs.

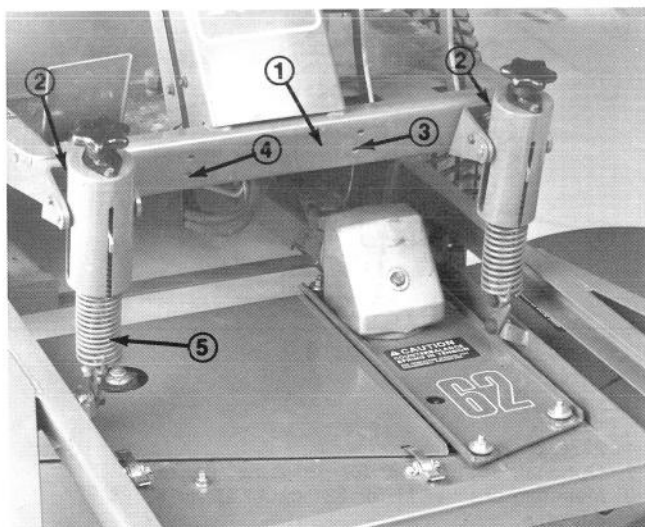


Figure 3

1. 220D front frame.
2. Mounting holes for 62" & 72" decks.
3. Mounting holes for 52" deck.
4. Mounting holes for 52" deck w/grass collection system.
5. Lighter spring on right with 62" deck.

To install a weight transfer kit on a GROUNDMASTER 220D, use (4) 3/8" X 1" capscrews and nuts to secure mounting brackets directly to tractor frame (Fig. 2). Use the correct existing mounting holes for the specific size deck (Fig. 3). Tighten capscrews and nuts to 45–50 ft. lbs.

NOTE: On a GROUNDMASTER 217D or 220 the mounting brackets angle downward (Fig. 1). On a GROUNDMASTER 220D the mounting brackets angle upward (Fig. 2).

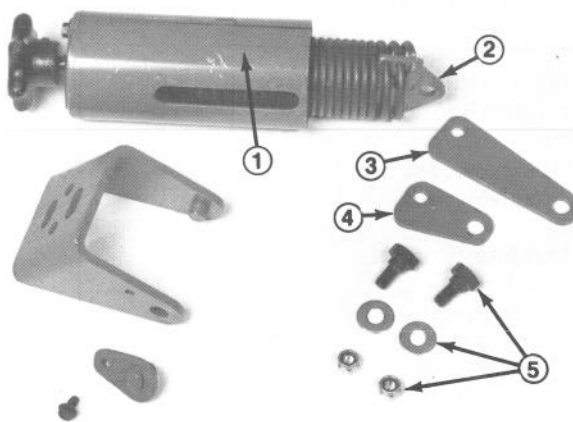


Figure 4

1. Spring assembly.
2. Bottom spring end plate.
3. Knee link bracket for 52" side & rear discharge decks.
4. Knee link bracket for 62" & 72" decks.
5. Shoulder bolt, flatwasher, and locknut (2).

5. Attach the knee link bracket(s) to the bottom spring end plate(s) using a shoulder bolt, flatwasher, and locknut (Fig. 4). Do not over tighten the shoulder bolt, bracket should pivot freely. Position brackets as shown in figure 5.

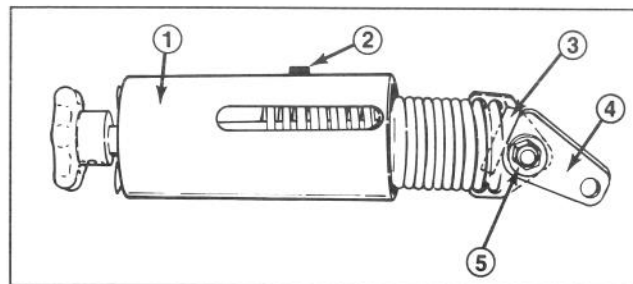


Figure 5

1. Weight transfer assembly.
2. Weight transfer gauge.
3. Bottom spring end plate.
4. Knee link bracket.
5. Shoulder bolt, flatwasher, and locknut.

6. Attach the bottom knee link bracket(s) to the deck bracket(s) with a shoulder bolt, flatwasher, and lock nut (Fig. 6). Do not over tighten the shoulder bolt, bracket should pivot freely.

IMPORTANT: The top hole in the knee link bracket(s) must face to the rear (Fig. 7), otherwise the weight transfer spring could fold incorrectly, going under the tractor frame when the deck is raised all the way.

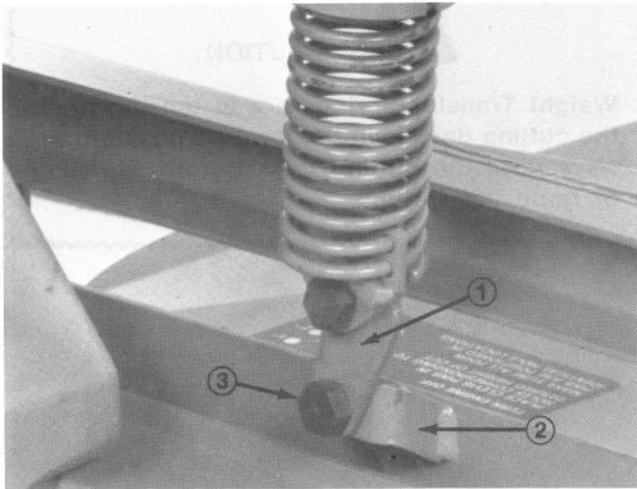


Figure 6

1. Knee link bracket
2. Deck bracket
3. Shoulder bolt, washer and locknut

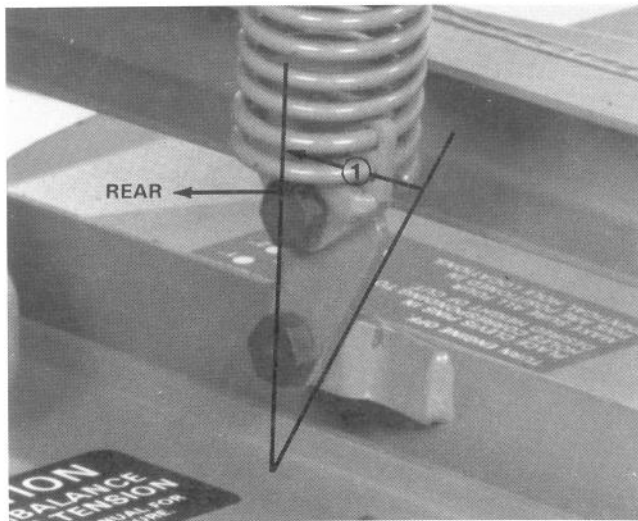


Figure 7

1. Top knee link hole toward rear

IMPORTANT: The knee link bracket(s) must be positioned to the inside of the deck bracket(s), and the spring end plate(s) must be positioned to the inside of the knee link bracket(s) (Fig. 8).

7. Set the adjustment for each weight transfer assembly to the middle setting by turning the adjusting knob. Start the traction units engine and raise the cutting deck about half way up. Stop the engine and remove the key. Position the assembly housing so that the bracket pin sticks into the slot in the housing (Fig. 9).

8. For each weight transfer assembly align the lock pin plate so that the pin sticks into the slot in the assembly housing. The self tapping screw can then be screwed through the pin plate and into the mounting bracket. Tighten the self tapping screw to 20 ft. lbs.

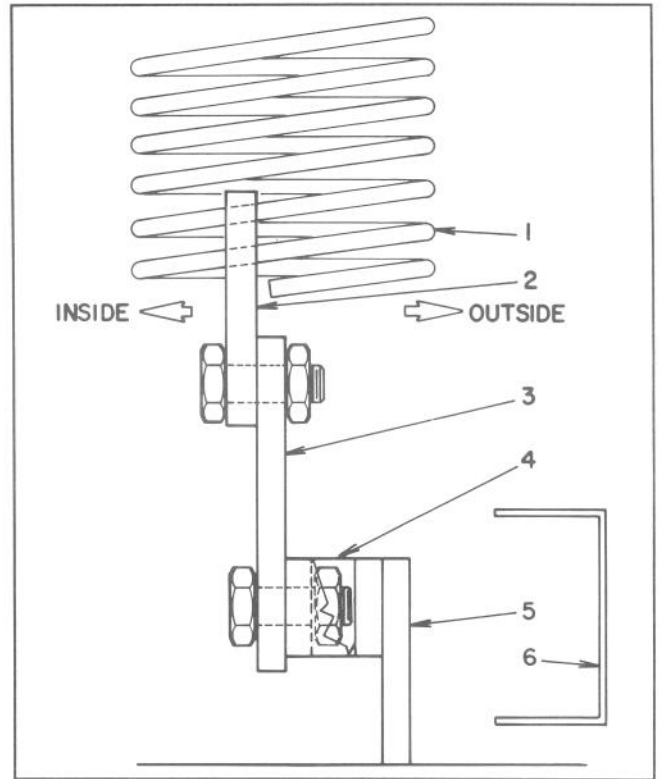


Figure 8

- | | |
|---------------------------|--------------------|
| 1. Weight transfer spring | 4. Deck bracket |
| 2. Spring end plate | 5. Deck frame |
| 3. Knee link bracket | 6. Flotation frame |

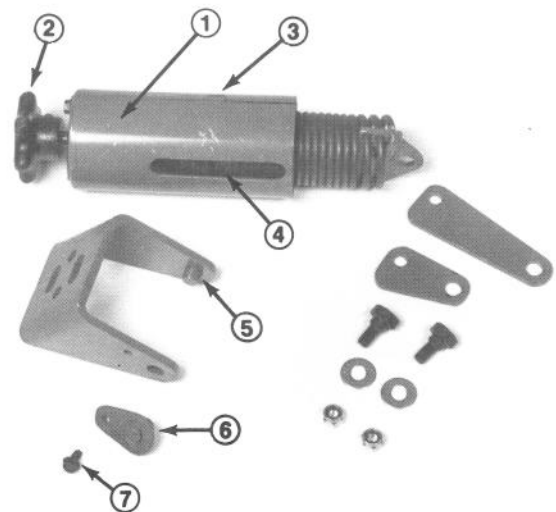


Figure 9

- | | |
|-----------------------------|-----------------------|
| 1. Weight transfer assembly | 5. Bracket pin |
| 2. Adjustment knob | 6. Lock pin plate |
| 3. Weight transfer gauge | 7. Self tapping screw |
| 4. Slot in housing (2) | |

9. The cutting unit performs best when the spring tension is adjusted so that the cutting unit does not ride too heavily on flat turf yet rides heavy enough (does not bounce excessively) in uneven conditions. If the cutting unit scalps the turf or gives an uneven cut from one side to the other, there may be too much weight on the deck and some weight should be transferred to the traction unit (ie. adjust the springs upward).

If, on the other hand, too much weight is transferred to the traction unit, the deck will flop around and give an uneven cut. An initial guide for adjusting the weight transfer spring gauge are as follows:

- A. Adjust to lowest setting for 1" to 1-1/2" cut.
- B. Adjust to middle setting for 2" to 3" cut.
- C. Adjust to highest setting for 3-1/2" to 4" cut.

If the cutting unit does not perform properly, set the parking brake, raise the cutting unit into the transport position and stop the engine. Readjust the weight transfer tension and resume cutting.



CAUTION

Weight Transfer Springs are in tension when the cutting deck is in the lowered position. Always raise the cutting deck before adjusting or removing springs.