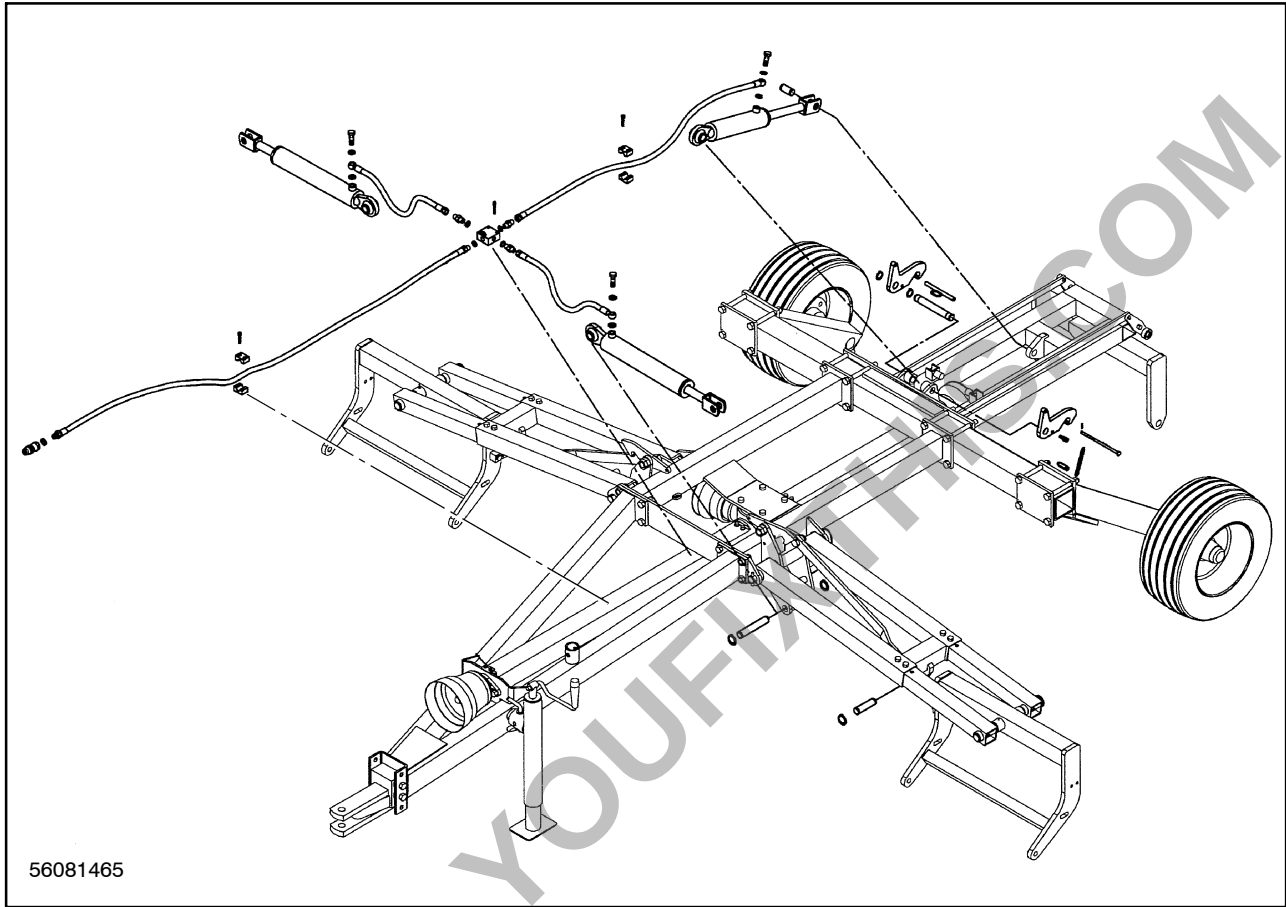




HYDRAULIC SYSTEM

HYDRAULIC SYSTEM LAYOUT

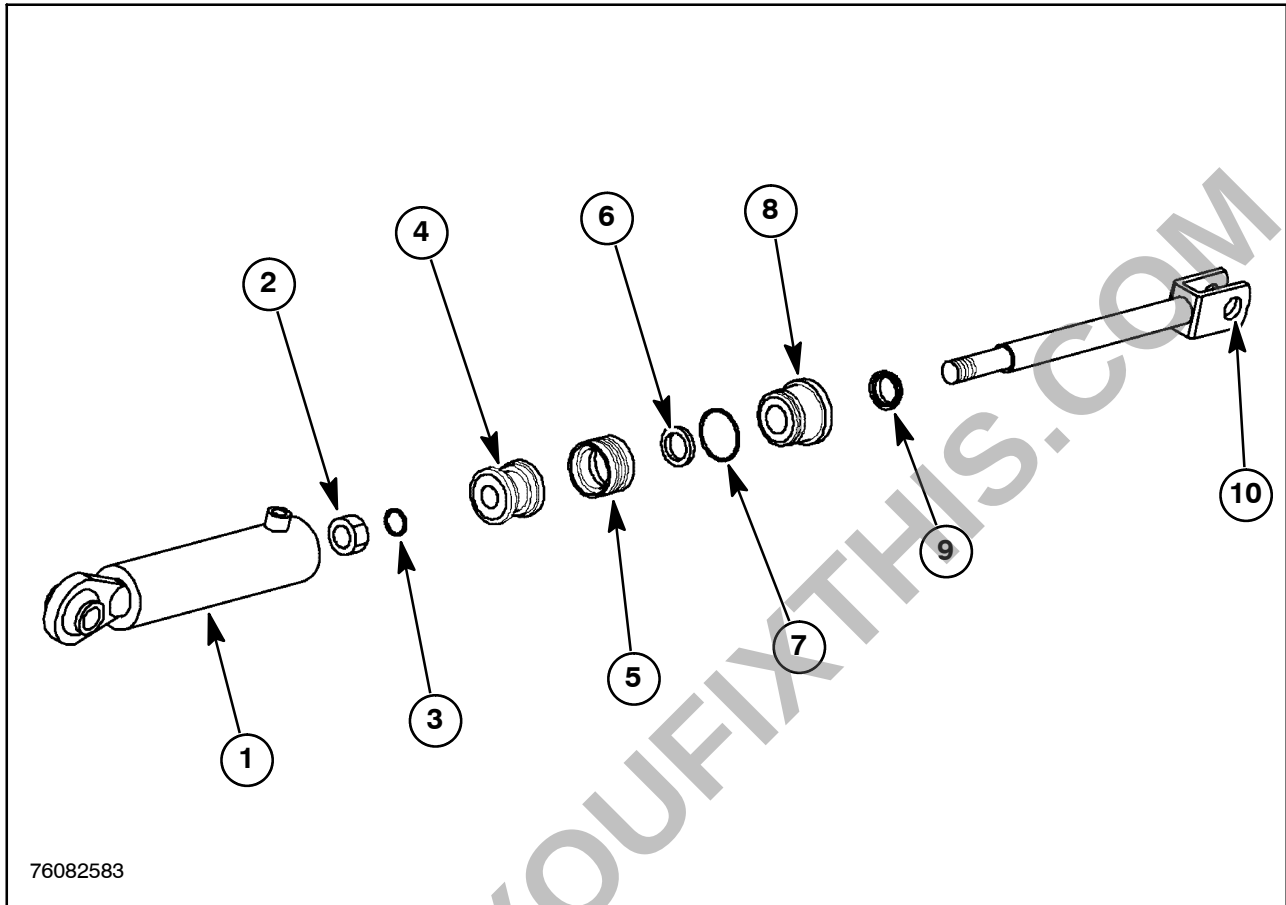


2

Hose Dimensions

MODEL	SIZE	LENGTH	PART No.
RR144, RR180	3/8 in hose (1/2 in Male, 3/8 in Female)	2900 mm (114 in)	SIT 620862
RR204	3/8 in hose (1/2 in Male, 3/8 in Female)	3000 mm (118 in)	SIT 620863
RR144, RR180	1/4 in hose (3/8 in Eyelet, 3/8 in Female)	1650 mm (65 in)	SIT 610967
RR204	1/4 in hose (3/8 in Eyelet, 3/8 in Female)	1820 mm (71.5 in)	SIT 620865
RR144, RR180, and RR204	3/8 in hose, (3/8 in Eyelet, 3/8 in Female)	650 mm (25.5 in)	SIT 610968

REAR CYLINDER COMPONENTS (APART)



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1. Cylinder
2. Nut, M20 x 1.5
3. O-ring
4. Piston
5. Seal, Piston

6. Seal, Inner
7. O-ring
8. Head, Cylinder
9. Seal, Wiper
10. Rod

REAR HYDRAULIC CYLINDER

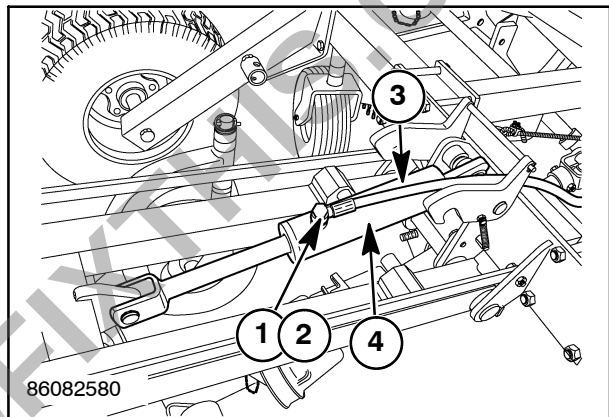
REAR HYDRAULIC CYLINDER REMOVAL (RR144, RR180 AND RR204)

Preparation

1. Before removing the hydraulic cylinders from the Flex Wing mower, make sure the Flex Wing mower is parked on level ground.
2. Lower all the mower decks to their lowered position. This will relieve the pressure in the cylinders and allow access to the cylinders.

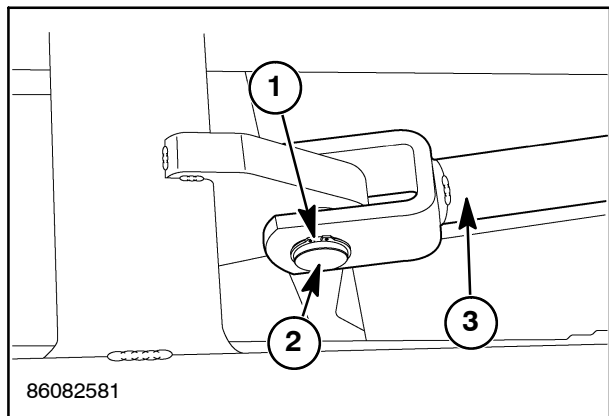
Removal

3. Remove the 3/8 in banjo bolt, 1, and two 3/8 in copper washers, 2, which attach the hydraulic hose, 3, to the cylinder, 4. Then remove the 1/4 in hydraulic hose from the cylinder.



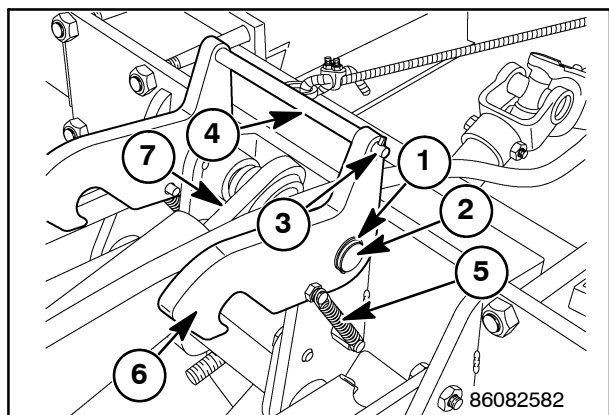
5

4. Remove the external E25 snap ring, 1, from the pin, 2.
5. Remove the pin, 2, from the rod, 3.



6

6. Remove the external E25 snap ring, 1, from the pin, 2.
7. Remove the spring pin, 3, from the support, 4. And then remove the springs, 5, from both of the hooks, 6.
8. Remove the hook, 6, from the pin, 2.
9. Remove the pin, 2, from the cylinder, 7, by using a hammer and punch.
10. The cylinder, 7, can now be removed from the rear frame.



7

LIGHT OPERATION

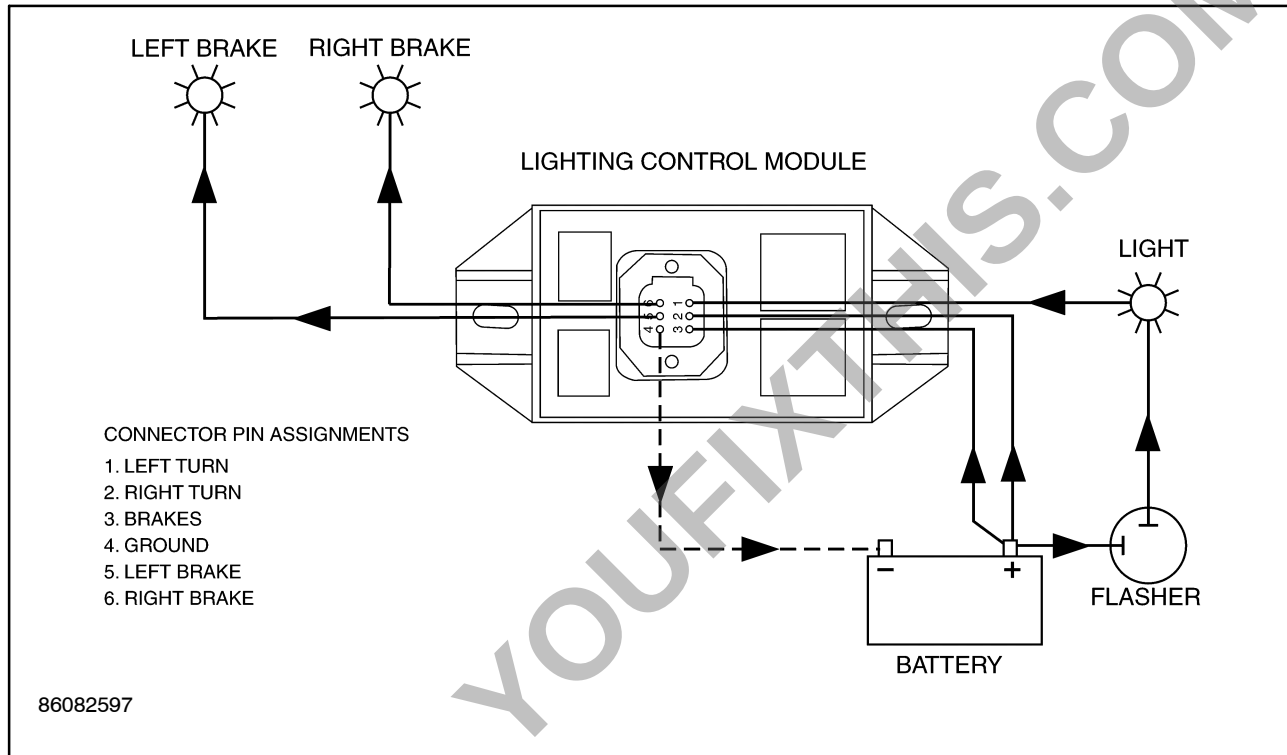
Trailing Lights; Flex Wing Mower	Left Amber Outer Lamp	Left Red Inner Brake Lamp	Left Red Inner Tail Lamp *	Right Red Inner Brake Lamp	Right Red Inner Tail Lamp *	Right Amber Outer Lamp
Lights Off	OFF	OFF	OFF	OFF	OFF	OFF
Lights On	OFF	OFF	ON	OFF	ON	OFF
Brakes Only	OFF	ON	OFF	ON	OFF	OFF
Hazard/No Brakes	ON (Flash)	OFF	OFF	OFF	OFF	ON (Flash)
Hazards with Brakes	ON (Flash)	ON	OFF	ON	OFF	ON (Flash)
Left Turn/No Brakes	ON (Flash)	ON (Flash)	OFF	OFF	OFF	ON
Left Turn with Brakes	ON (Flash)	ON (Flash)	OFF	ON	OFF	ON
Right Turn/No Brakes	ON	OFF	OFF	ON (Flash)	OFF	ON (Flash)
Right Turn with Brakes	ON	ON	OFF	ON (Flash)	OFF	ON (Flash)

NOTE: The lighting control module is used to control the amber lamps and brake light circuits.

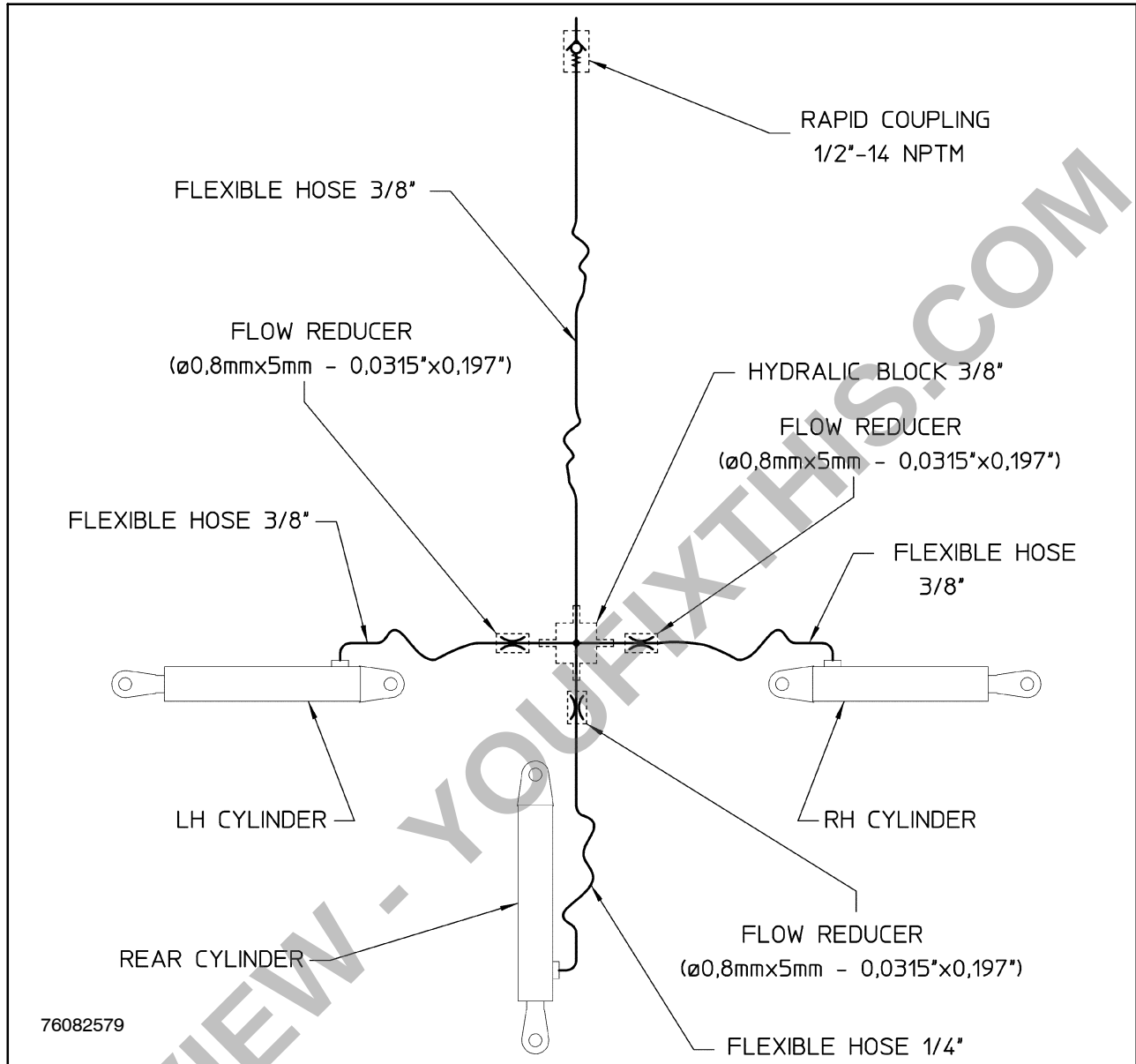
*The tail lamps are ON only when the tractor's park or road lights are ON.

LIGHTING CONTROL MODULE**Module Testing (Left Turn Signal with Brakes)**

NOTE: A flasher and light are used to simulate the pulsating current going to terminal one (left turn signal). All other test will be conducted in the same manner according to their flasher and input locations as shown in the logic diagram.

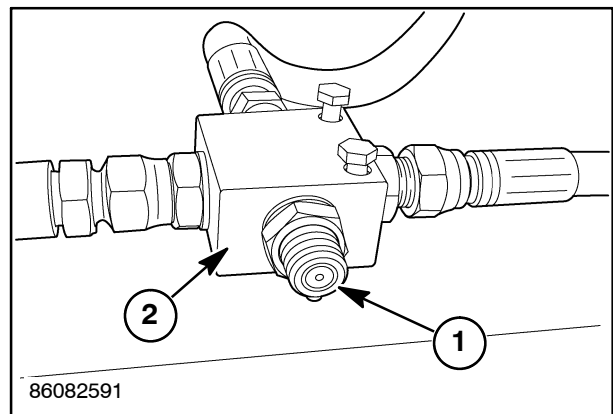


HYDRAULIC SYSTEM COMPONENTS



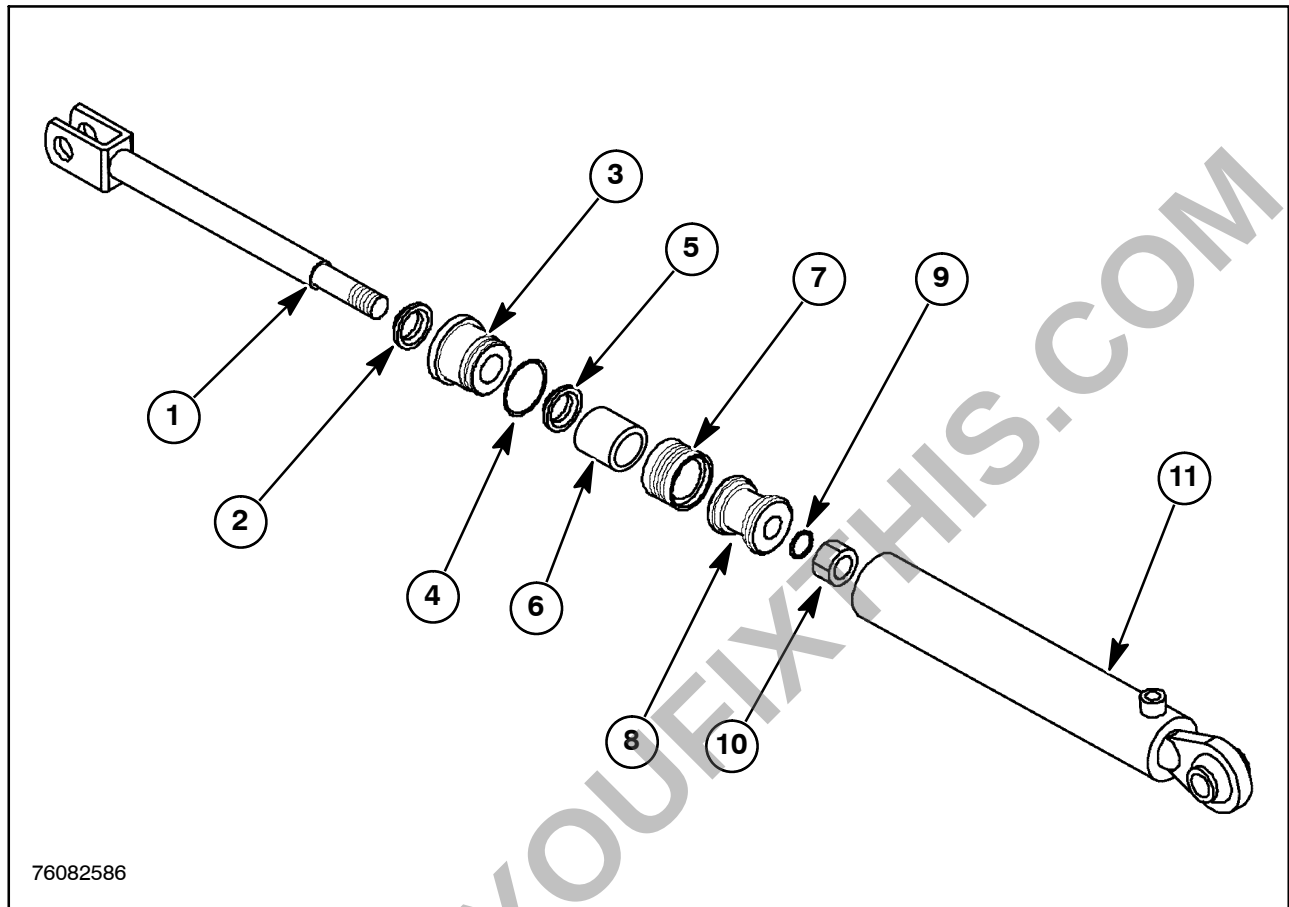
3

NOTE: The Flow Reducers, 1, are screwed into the Hydraulic Block, 2.



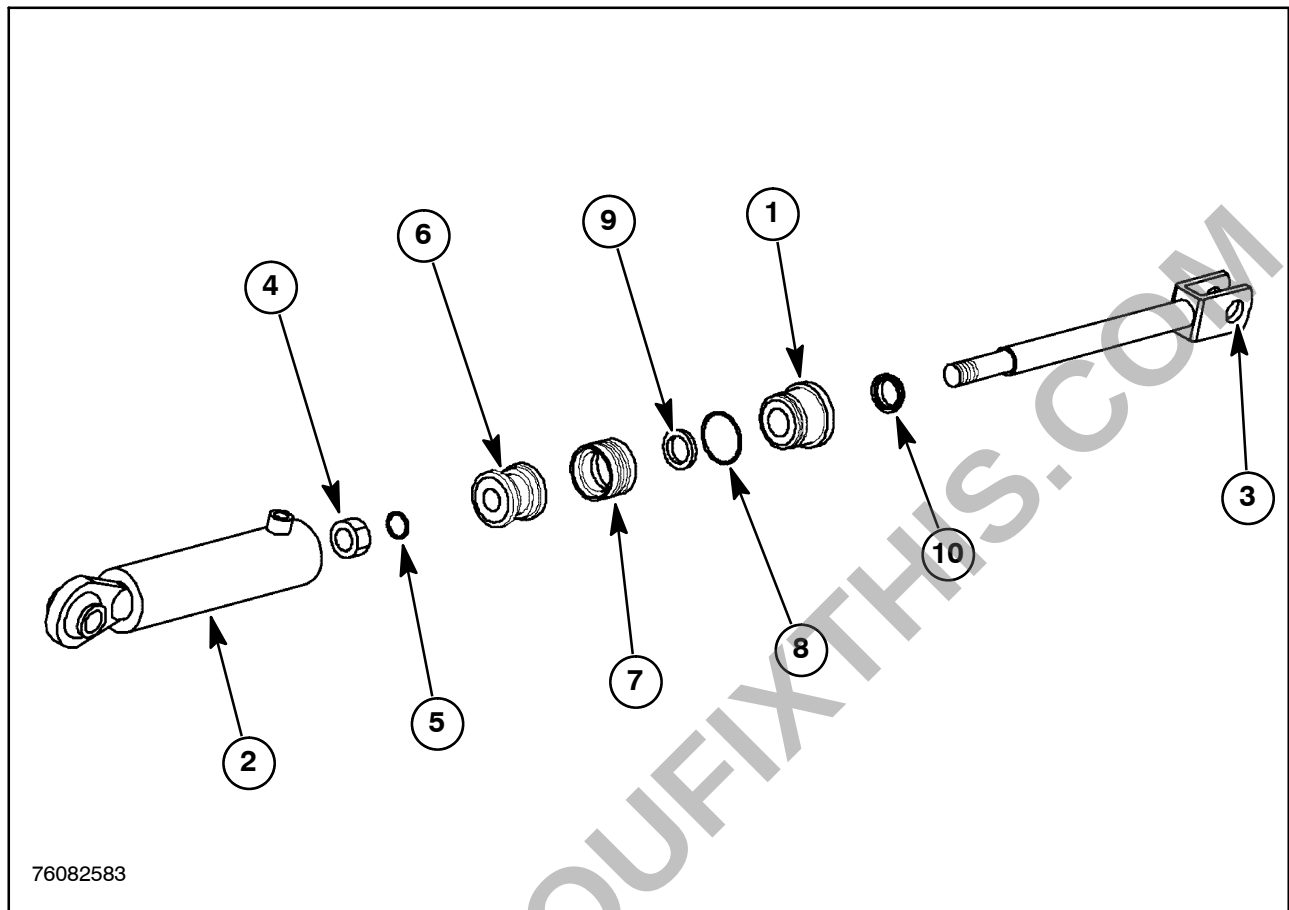
4

LATERAL CYLINDER COMPONENTS (APART) (RR144 AND RR180)



1. Rod
2. Seal, Wiper
3. Head, Cylinder
4. O-ring
5. Seal, Inner
6. Bushing

7. Seal, Piston
8. Piston
9. O-ring
10. Nut, M20 x 1.5
11. Cylinder



10

Disassembly

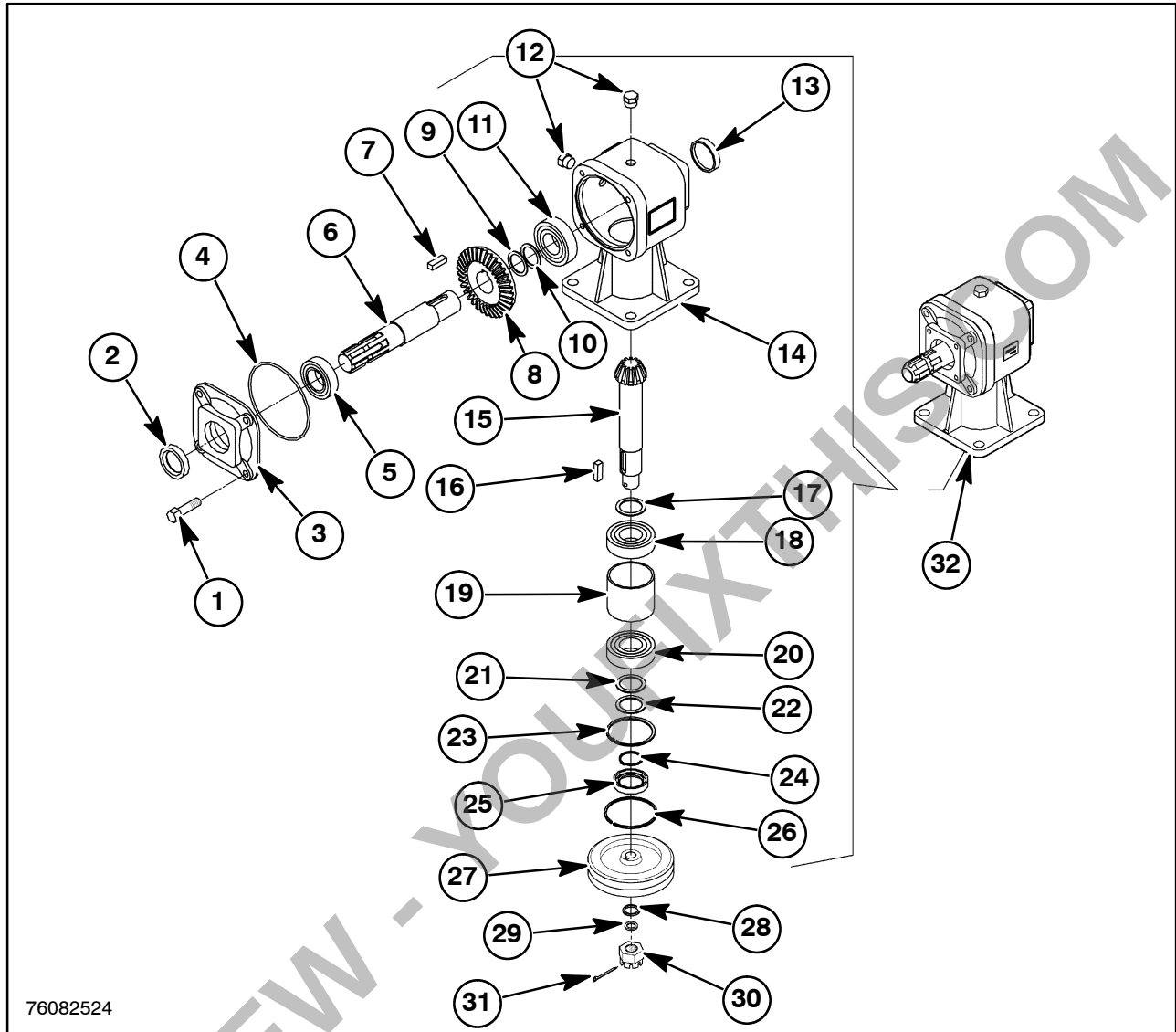
1. Remove the cylinder head, 1, off of the cylinder, 2, using the adjustable spanner wrench. **Special Tool # FNH01889**

NOTE: Drain all the hydraulic fluid out of the cylinder before taking it apart.

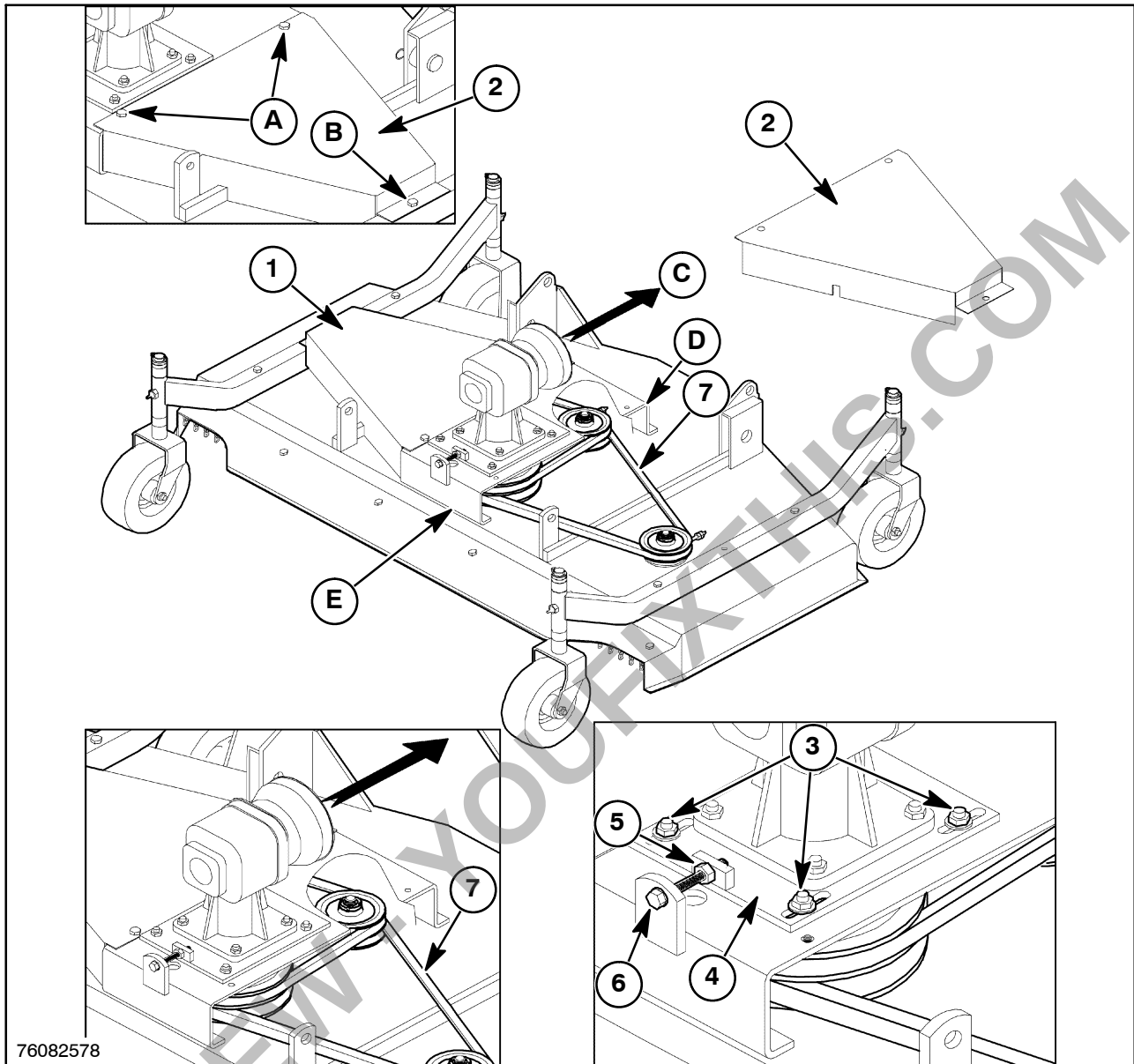
2. Place the end of the cylinder in a vice, and then carefully pull the rod, 3, out of the cylinder, 2.
3. Remove the M20 x 1.5 nut, 4, from the top of the rod, 3.

4. Remove the O-ring, 5, and piston, 6, from the rod, 3.
5. Remove the piston seal, 7, from the piston, 6.
6. Remove the cylinder head, 1, from the rod, 3.
7. Remove the O-ring, 8, inner seal, 9, and wiper seal, 10, from the cylinder head, 3.

GEARBOX COMPONENTS



- | | |
|---------------------------|-------------------------|
| 1. Cap Screw, M10 x 25 | 17. Shim, M52 x 0.3 |
| 2. Seal, Oil | 18. Bearing |
| 3. Cover, Gearbox Housing | 19. Spacer |
| 4. O-ring | 20. Bearing |
| 5. Bearing | 21. Shim, M52 x 0.3 |
| 6. Input Shaft | 22. Shim, M48 x 0.5 |
| 7. Parallel Key | 23. Snap Ring, Internal |
| 8. Gear | 24. Snap Ring, External |
| 9. Shim, M52 x 0.3 | 25. Seal, Oil |
| 10. Shim, M48 x 0.5 | 26. Retaining Ring |
| 11. Bearing | 27. Pulley |
| 12. Plug, 3/8 in | 28. Washer, M24 |
| 13. Seal, Oil | 29. Shim, 2 mm |
| 14. Housing, Gearbox | 30. Castle Nut, M24 |
| 15. Output Shaft | 31. Cotter Pin |
| 16. Parallel Key | 32. Gearbox Assembly |



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3

Removal**WARNING**

Before replacing the belts make sure the tractor is shut off, and the PTO shaft is disconnected.

1. Remove the left and right belt cover shields, 1 and 2, by removing the handles and washers at points "A" and "B".
2. Clean the area around the gearbox and pulleys.
3. Loosen the four nuts, 3, that fasten the slide-reduction unit-pulley assembly, 4.

4. Loosen the jam nut, 5, and unscrew the screw, 6, so the assembly, 4, will slide in the direction of "C" until it is possible to remove the belts, 7, from the grooves of the pulleys.
5. Remove the three screws on side "D" of the reduction unit mount, then loosen the three screws located under side "E" of the reduction unit mount until it can be raised enough on side "D" to allow the belts to be pulled out from underneath it.

RR144, RR180, RR204 REPAIR MANUAL CONTENTS

SECTION 35 - HYDRAULIC SYSTEM

SECTION 55 - ELECTRICAL

SECTION 58 - MOWER

The sections used through out all Case IH product Repair manuals may not be used for each product. Each Repair manual will be made up of one or several books.

The sections listed above are the sections utilized for the RR144, RR180, RR204 Flex Wing Finish Mower.

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