# SABRE LAWN TRACTOR

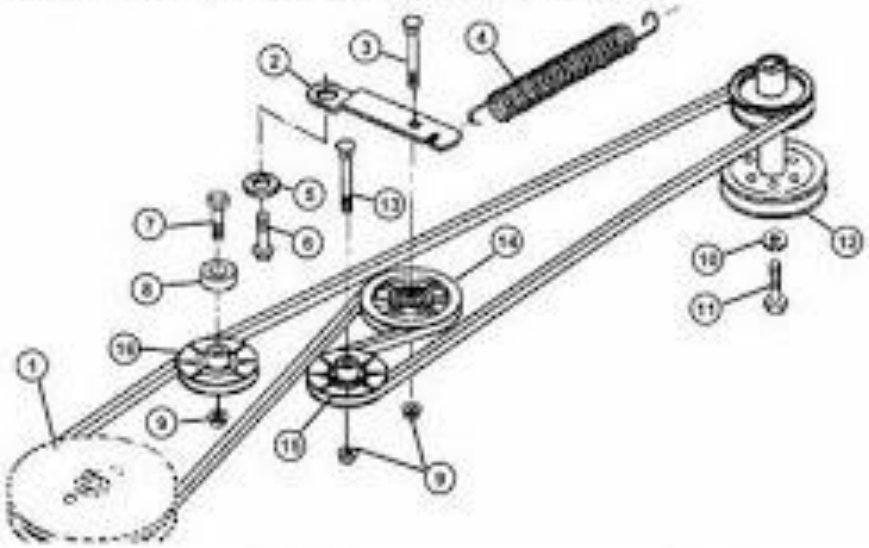
| | | |
|---|---|---|
| MODELS: | 1438 Gear | 15.542 Automatic |
| | 1542 Gear | 1642 Gear |
| | 15.538 Gear | 1642 Automatic |
| | 15.538 Automatic | 1646 Automatic |
| | 1542 Automatic | 1642 Auto V-Twin |
| | 15.542 Gear | 1646 Auto V-Twin |


# TECHNICAL MANUAL

John Deere
Worldwide Commercial and
Consumer Equipment Division

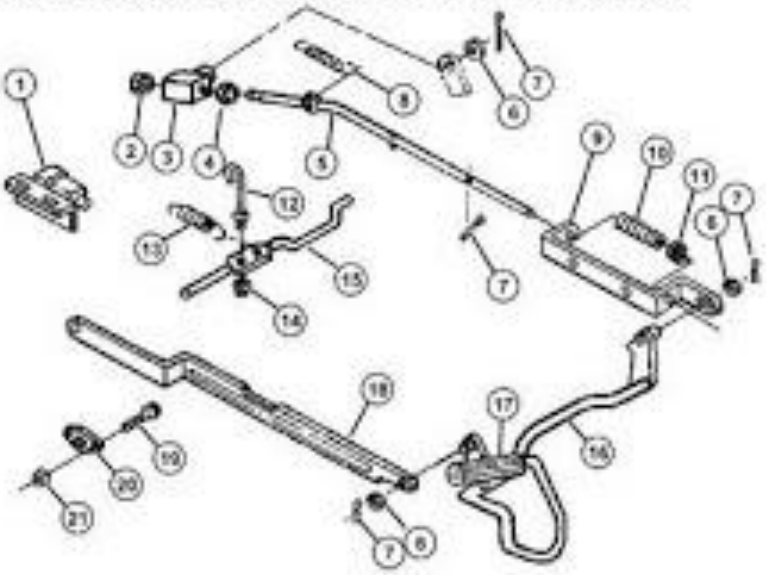
TM-GX10238 (01Apr98)

## TRACTION DRIVE SYSTEM COMPONENT LOCATION



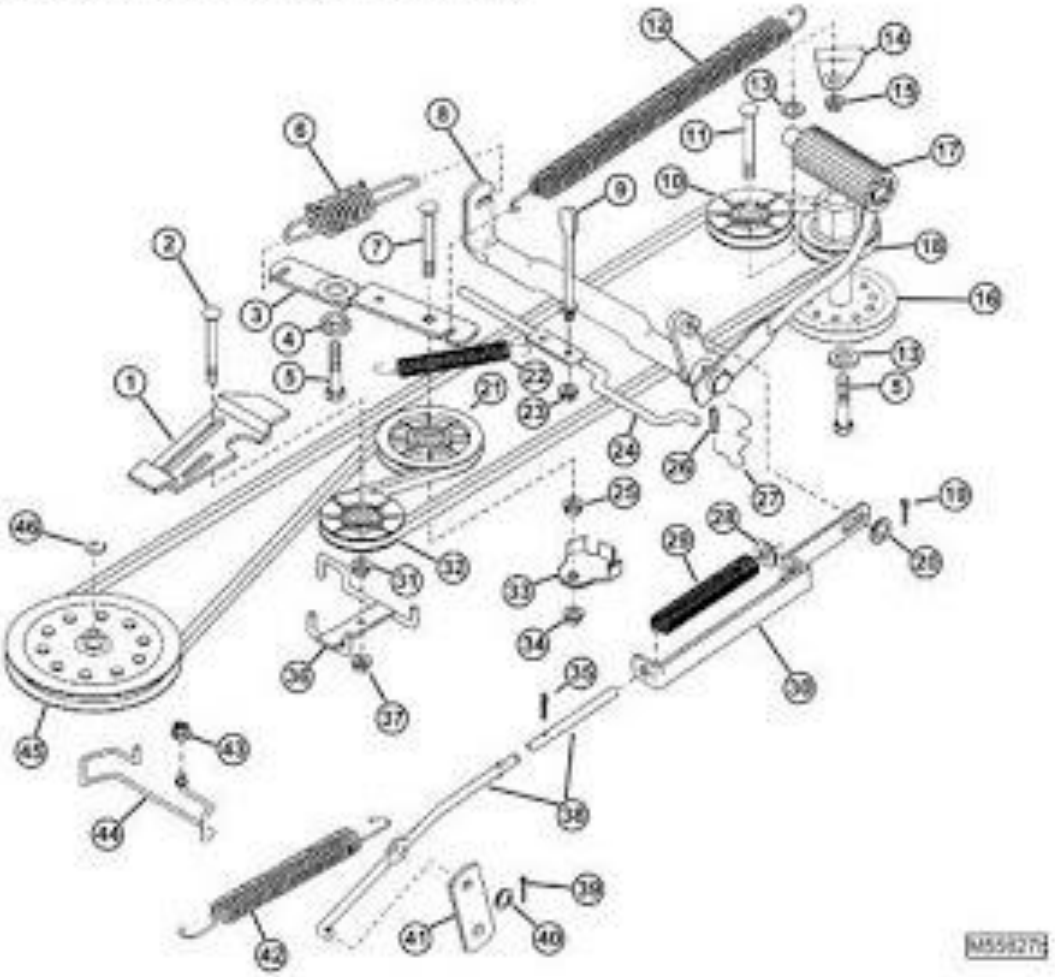
1. Transaxle Drive Sheave
2. Arm
3. Bolt M8 x 45
4. Spring
5. Bushing
6. Cap Screw
7. Bolt
8. Spacer
9. Flange Nut M8
10. Lock Washer
11. Cap Screw
12. Sheave, Engine
13. Bolt M8 x 45
14. Idler
15. Idler
16. Idler

## PEDAL LINKAGE ASSEMBLY COMPONENT LOCATION

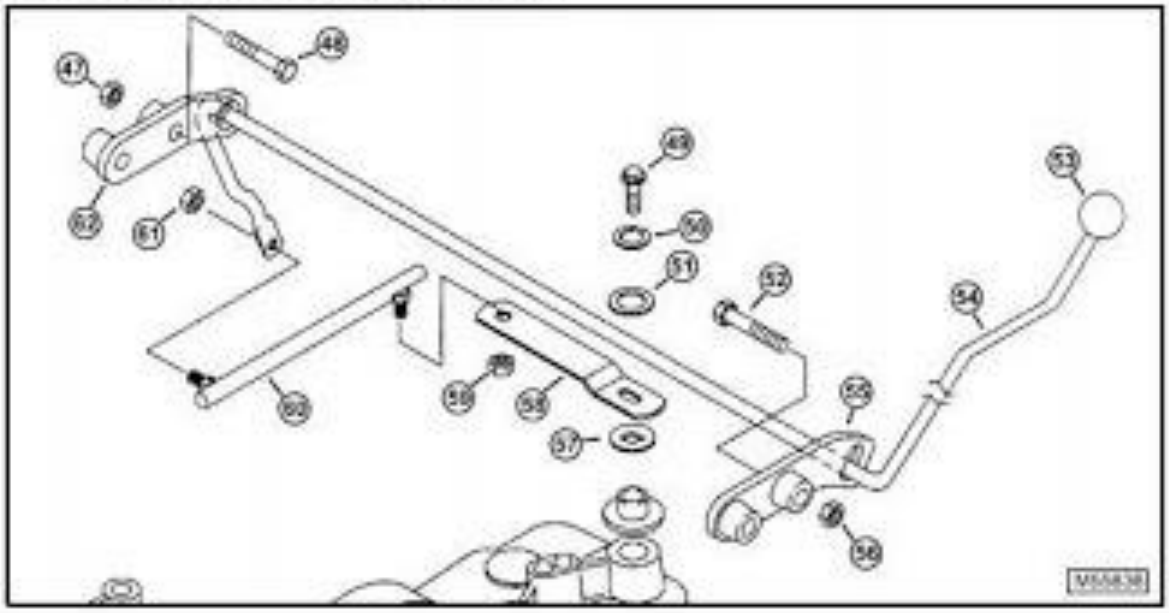


1. Neutral Switch
2. Lock Nut, 9.525 mm
3. Pivot
4. Nut, 3/8 in.
5. Rod
6. Washer
7. Cotter Pin
8. Brake Rod Return Spring
9. Brake Spring Strap
10. Brake Compression Spring
11. Washer
12. Park Brake Lever
13. Extension Spring
14. Flange Nut
15. Rod, Parking Brake
16. Shaft, Brake
17. Pad
18. Strap, Return to Neutral
19. Screw, M8x20
20. Bracket
21. Lock Nut, M8

TRACTION DRIVE SYSTEM COMPONENT LOCATION

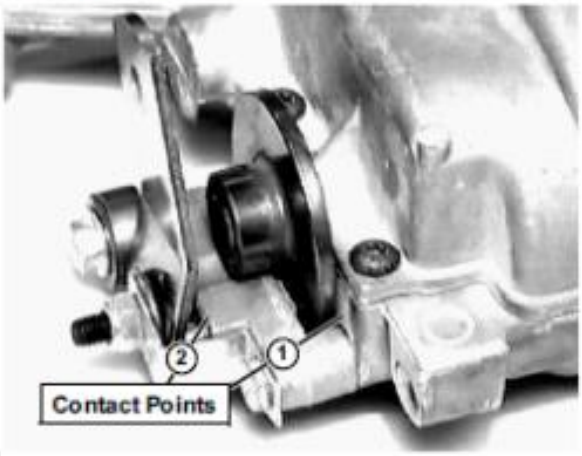


SHIFT LINKAGE SYSTEM COMPONENT LOCATION

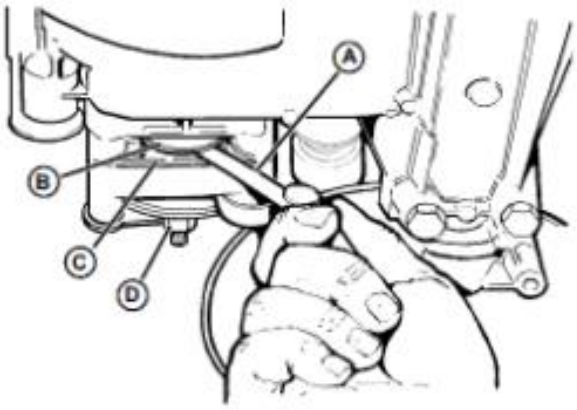


**BRAKE ADJUSTMENT—**

- Before inspecting the brakes, depress the brake/clutch pedal and lock park brake lever into park position.
- Check for brake disc contacting the case and/or brake lever contacting its mounting bracket, top or bottom. If so, replace friction pucks and brake disc before making any adjustments.




1. Place the tractor on a flat surface, block the front and rear wheels, and release the parking brake.




2. From the rear of the tractor, locate the brake disc, lock nut, and friction pucks.
3. Insert a 0.010 in. (0.25 mm) shim gauge (A) between the disc (B) and friction puck (C). The shim should slide with slight interference.

**If the shim will not fit:**

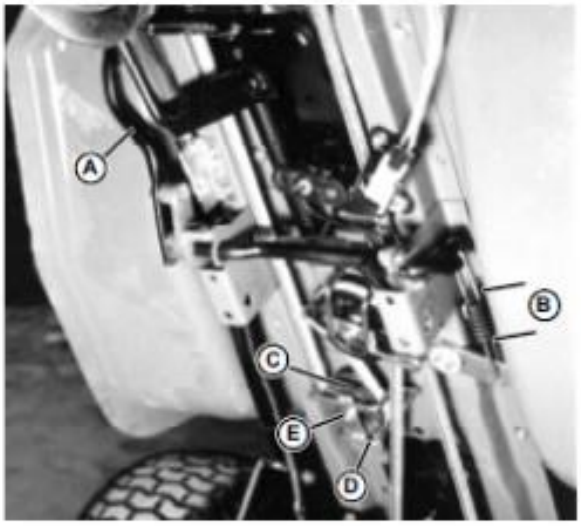
4. Loosen the lock nut (D) until the shim slides in. Tighten the lock nut until the shim has slight interference.
5. Remove the shim and cycle the brake pedal. Readjust if needed.

**If the shim slides freely:**

6. Install the shim and tighten the lock nut until there is slight interference.
7. Remove the shim and cycle the brake pedal. Readjust if needed.
8. If adjustment can not be obtained, inspect brake assembly components, replace as necessary, and repeat all adjustment procedures and drive tests.

**CLUTCH ACTUATING SPRING ADJUSTMENT**

**IMPORTANT: Anytime the brake or clutch spring need to be adjusted, both must be examined to ensure desired results will be obtained.**




1. Unlock park brake and release pedal (A).
2. Measure clutch actuating spring length (B). Measurement should be **42—45 mm (1.65—1.77in.)**. Clutch actuating spring length is adjusted by sliding rear idler sheave (C) on it's slotted mounting bracket, as follows:
3. Depress brake/clutch pedal (A) and lock park brake.
4. Remove belt guide (D) to access idler sheave mounting nut (E). Loosen mounting nut and adjust idler as follows:
   - If spring length is less than **42 mm (1.65 in.)**, slide idler rearward.
   - If spring length is greater than **45 mm (1.77 in.)**, slide idler forward.
5. Tighten idler nut (E).
6. Cycle pedal in and out two or three times measuring clutch spring length each time. Measurement must fall within **42—45 mm (1.65—1.77 in.)** each time. If not, continue to adjust rear idler slightly until it does.