

## MFWD—MFWD Clutch Test

### Test Procedure

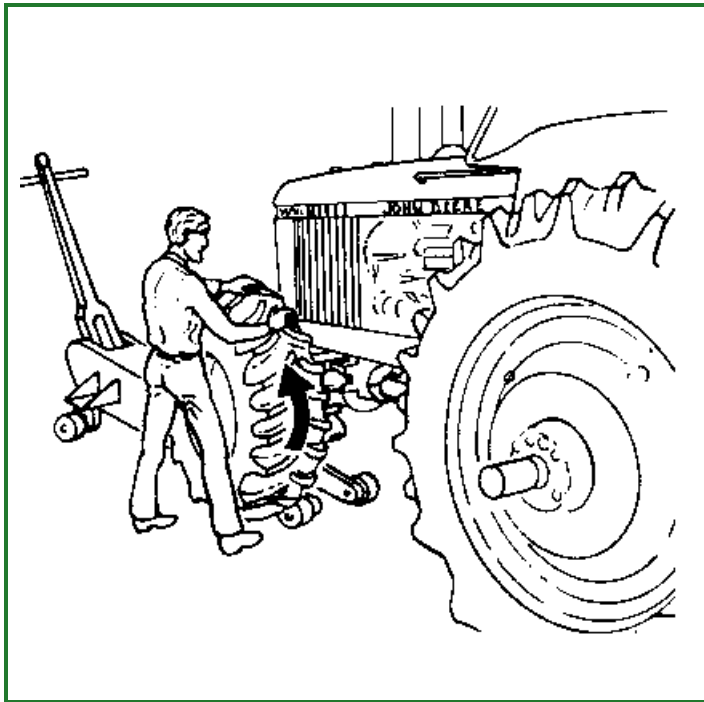
#### 1 MFWD Clutch Engagement Check

**Action:**

**NOTE:**

*The MFWD clutch is mechanically engaged and hydraulically released.*

1. Place transmission in PARK.
2. Differential lock must be OFF.
3. Raise left front wheel off the ground.
4. Start engine and set speed to 900 rpm.
5. Put MFWD in Brake Assist position.
6. Rotate left front wheel by hand. Wheel rotates.



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7. Put MFWD in ON position.
8. Attempt to rotate left front wheel by hand. Wheel does not rotate.

**Record of Actual Results:**

**Result:**

**OK:**

Return to diagnosis.

**NOT OK:**

Wheel does not rotate in Brake Assist position. MFWD clutch is not disengaging.

GO TO 2.

**NOT OK:**

Wheel rotates with MFWD ON. MFWD clutch is not engaging.

Return to diagnosis.

**2 MFWD Clutch Release Check****Action:**

1. Place transmission in PARK.
2. Differential lock must be OFF.
3. Raise both front wheels off the ground.
4. Start engine and set speed to 900 rpm.
5. Put MFWD in Brake Assist position.
6. Rotate left front wheel forward by hand and observe right front wheel.
  - Right wheel rotates opposite direction.
7. Engage differential lock.
8. Rotate left front wheel forward by hand and observe right front wheel.
  - Right wheel rotates same direction.
9. Put MFWD in ON position.
  - Neither front wheel rotates freely.

**Record of Actual Results:****Result:****NOT OK:**

Neither wheel rotates. MFWD clutch and/or front axle malfunction. Repair as needed and note condition.

Return to diagnosis.

**NOT OK:**

When one wheel is rotated, other wheel does not rotate. Front axle malfunction. Repair as needed and note condition.

Return to diagnosis.

**NOT OK:**

At step 6: When one wheel is rotated, other wheel rotates in the same direction.

OR

At step 8: When left front wheel is rotated, right front wheel rotates at approximately the same speed in the opposite direction.

Differential lock malfunction.

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