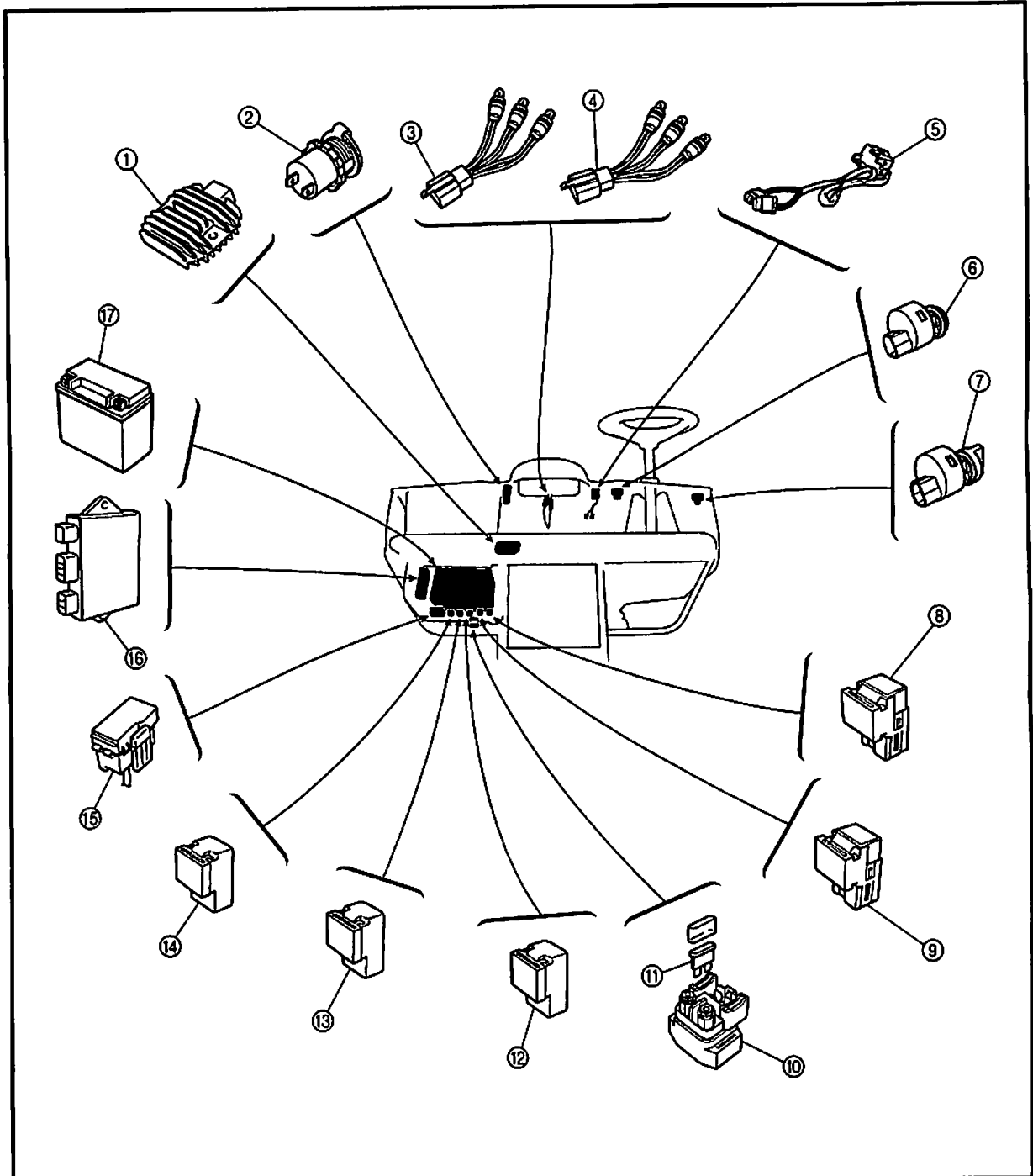


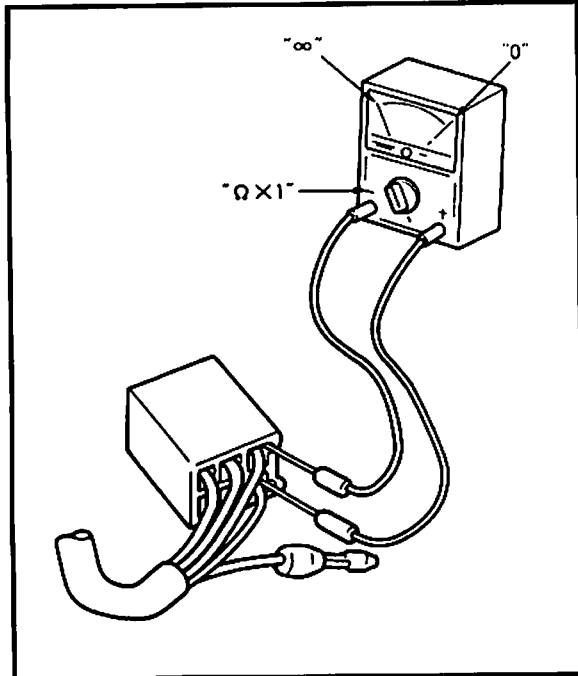
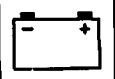
# ELECTRICAL COMPONENTS

ELEC



- ① Rectifier/regulator
- ② Auxiliary DC jack
- ③ Indicator light assembly 1
- ④ Indicator light assembly 2
- ⑤ On-Command four-wheel drive switch and differential gear lock switch
- ⑥ Main switch
- ⑦ Light switch
- ⑧ Four-wheel drive relay 1
- ⑨ Four-wheel drive relay 2
- ⑩ Starter relay
- ⑪ Main fuse
- ⑫ Four-wheel drive relay 3
- ⑬ Differential gear lock indicator light relay
- ⑭ Four-wheel drive indicator light relay
- ⑮ Fuse box
- ⑯ C.D.I. unit
- ⑰ Battery





**CHECKING THE SWITCH**

**CHECKING THE SWITCH**

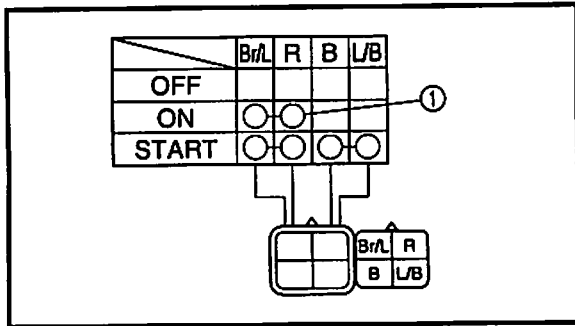
Use a pocket tester to check the terminals for continuity. If the continuity is faulty at any point, replace the switch.



**Pocket tester**  
P/N. YU-03112-C, 90890-03112

**NOTE:**

- Set the pocket tester to "0" before starting the test.
- The pocket tester should be set to the " $\Omega \times 1$ " range when testing the switch for continuity.
- Turn the switch on and off a few times when checking it.



**CHECKING A SWITCH SHOWN IN THE MANUAL**

The terminal connections for switches (main switch, light switch, etc.) are shown in a chart similar to the one on the left.

This chart shows the switch positions in the column and the switch lead colors in the top row.

For each switch position, "○—○" indicates the terminals with continuity.

**The example chart shows that:**

- ① There is continuity between the "Brown/Blue and Red" leads when the switch is set to "ON".

# CHECKING THE SWITCH

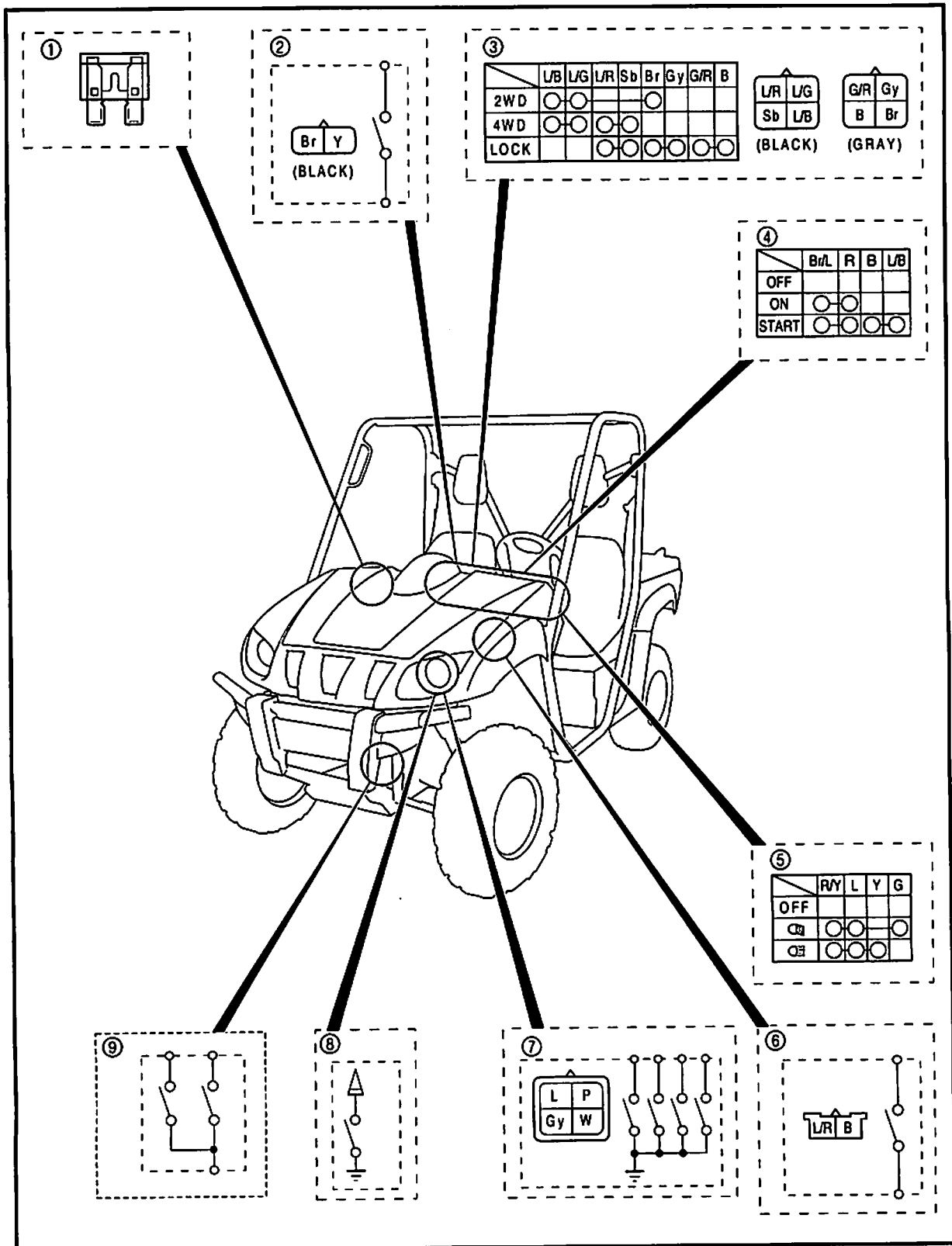


## CHECKING THE SWITCH CONTINUITY

Refer to "CHECKING THE SWITCH" and check for continuity between lead terminals.

Poor connection, no continuity → Correct or replace.

\* The coupler locations are circled.

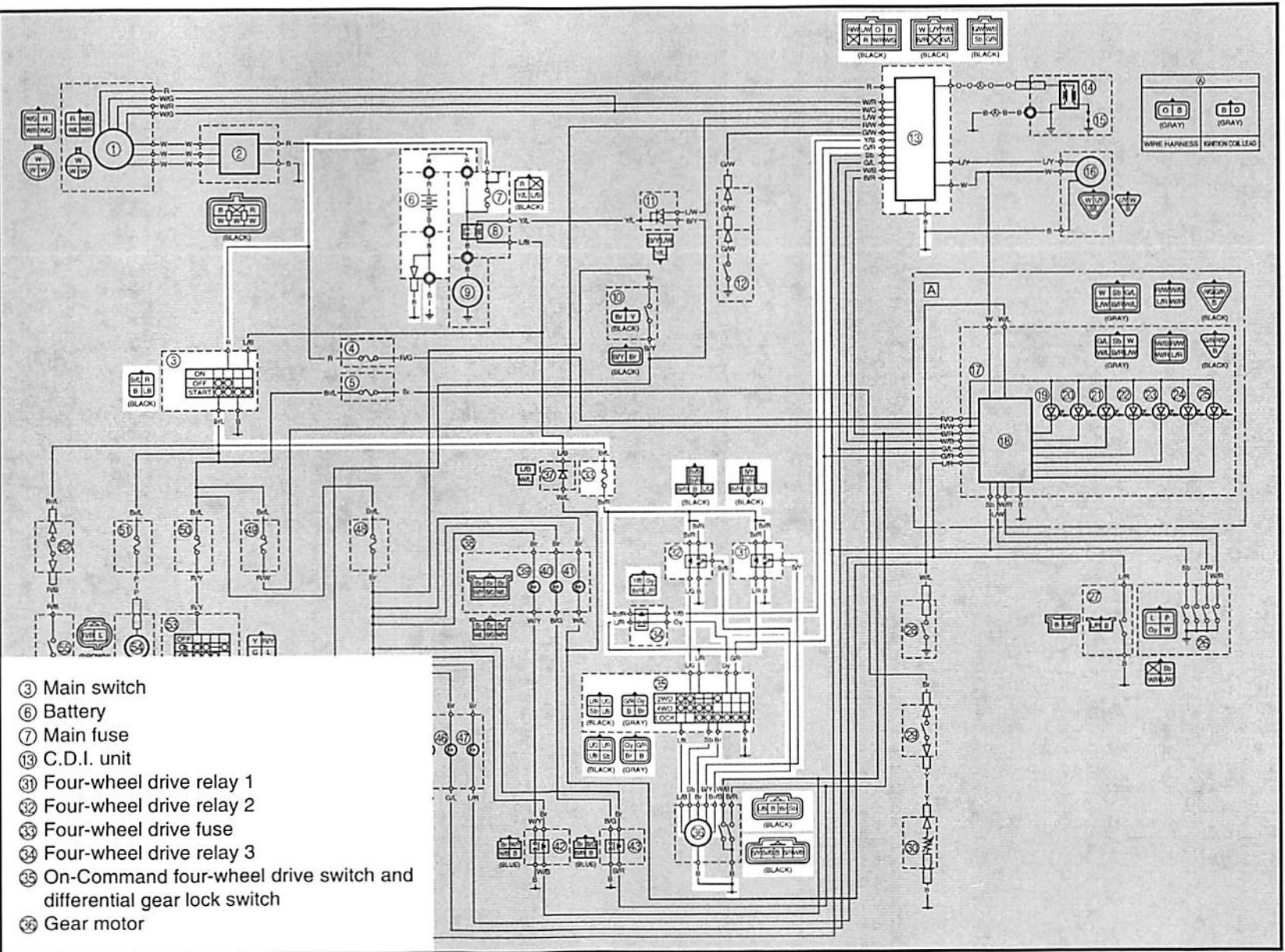


# 2WD/4WD SELECTING SYSTEM

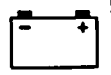
ELEC



## 2WD/4WD SELECTING SYSTEM CIRCUIT DIAGRAM



- ③ Main switch
- ⑥ Battery
- ⑦ Main fuse
- ⑬ C.D.I. unit
- ⑳ Four-wheel drive relay 1
- ㉑ Four-wheel drive relay 2
- ㉒ Four-wheel drive fuse
- ㉓ Four-wheel drive relay 3
- ㉔ On-Command four-wheel drive switch and differential gear lock switch
- ㉕ Gear motor



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### TROUBLESHOOTING

**IF THE FOUR-WHEEL DRIVE INDICATOR FAILS TO COME ON:**

**Procedure**

Check:

- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>1. Fuses (main, four-wheel drive)</li> <li>2. Battery</li> <li>3. Main switch</li> <li>4. Four-wheel drive relay 1</li> <li>5. Four-wheel drive relay 2</li> <li>6. Four-wheel drive relay 3</li> </ol> | <ol style="list-style-type: none"> <li>7. On-Command four-wheel drive switch and differential gear lock switch</li> <li>8. Gear motor</li> <li>9. Wiring connections<br/>(the entire 2WD/4WD selecting system)</li> </ol> |
|--|---|

**NOTE:**

- Remove the following part(s) before troubleshooting:
  - 1) Console
- Use the following special tool(s) for troubleshooting.

	<b>Pocket tester</b> P/N. YU-03112-C, 90890-03112
--	--

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1. Fuses (main, four-wheel drive)  
 Refer to "CHECKING THE SWITCH".



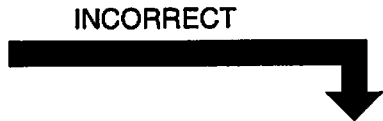
Replace the fuse(s).

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2. Battery

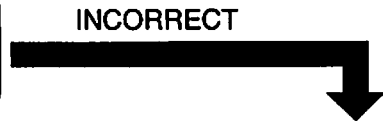
- Check the battery condition. Refer to "CHECKING AND CHARGING THE BATTERY" in chapter 3.

**Open-circuit voltage**  
 12.8 V or more at 20 °C (68 °F)

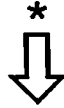


- Clean the battery terminals.
- Recharge or replace the battery.

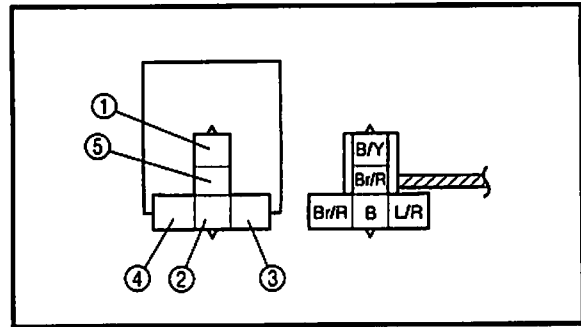
3. Main switch  
 Refer to "CHECKING THE SWITCH".



Replace the main switch.



<b>4. Four-wheel drive relay 1</b>	
<ul style="list-style-type: none"> <li>Remove the four-wheel drive relay 1 from the wire harness.</li> <li>Connect the pocket tester (<math>\Omega \times 1</math>) and the battery (12 V) to the four-wheel drive relay 1 terminals.</li> </ul>	
Tester (+) lead →	Black/Yellow terminal ①
Tester (-) lead →	Black terminal ②
Battery (+) terminal →	Brown/Red terminal ③
Battery (-) terminal →	Blue/Red terminal ④
Tester (+) lead →	Black/yellow terminal ①
Tester (-) lead →	Brown/Red terminal ⑤
<ul style="list-style-type: none"> <li>Check the four-wheel drive relay 1 for continuity.</li> </ul>	

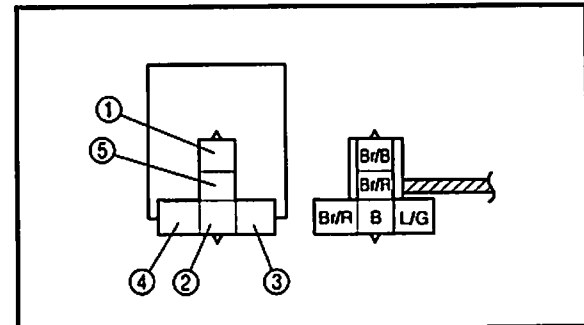


NO CONTINUITY

Replace the four-wheel drive relay 1.



<b>5. Four-wheel drive relay 2</b>	
<ul style="list-style-type: none"> <li>Remove the four-wheel drive relay 2 from the wire harness.</li> <li>Connect the pocket tester (<math>\Omega \times 1</math>) and the battery (12 V) to the four-wheel drive relay 2 terminals.</li> </ul>	
Tester (+) lead →	Brown/Black terminal ①
Tester (-) lead →	Black terminal ②
Battery (+) terminal →	Brown/Red terminal ③
Battery (-) terminal →	Blue/Green terminal ④
Tester (+) lead →	Brown/Black terminal ①
Tester (-) lead →	Brown/Red terminal ⑤
<ul style="list-style-type: none"> <li>Check the four-wheel drive relay 2 for continuity.</li> </ul>	



NO CONTINUITY

Replace the four-wheel drive relay 2.





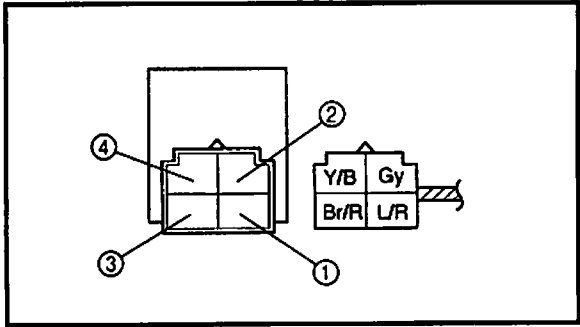
**6. Four-wheel drive relay 3**

- Remove the four-wheel drive relay 3 from the wire harness.
- Connect the pocket tester ( $\Omega \times 1$ ) and the battery (12 V) to the four-wheel drive relay 3 terminals.

**Battery (+) terminal** → **Brown/Red terminal ①**  
**Battery (-) terminal** → **Yellow/Black terminal ②**

**Tester (+) lead** → **Blue/Red terminal ③**  
**Tester (-) lead** → **Gray terminal ④**

- Check the four-wheel drive relay 3 for continuity.



NO CONTINUITY

Replace the four-wheel drive relay 3.

CONTINUITY

**7. On-Command four-wheel drive switch and differential gear lock switch**

Refer to "CHECKING THE SWITCH".

INCORRECT

Replace the On-Command four-wheel drive switch and differential gear lock switch.

CORRECT

\*



**8. Gear motor**

- Disconnect the gear motor coupler.
- Remove the gear motor from the differential gear case.

Refer to "FRONT CONSTANT VELOCITY JOINTS, DIFFERENTIAL GEAR AND DRIVE SHAFT" in chapter 7.

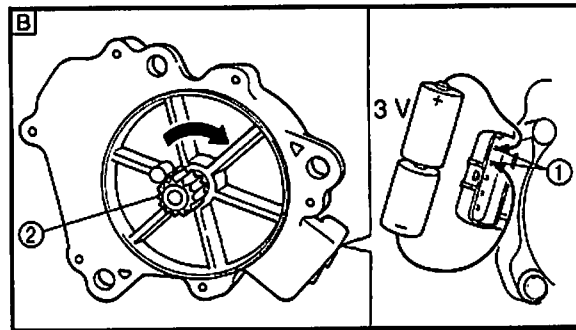
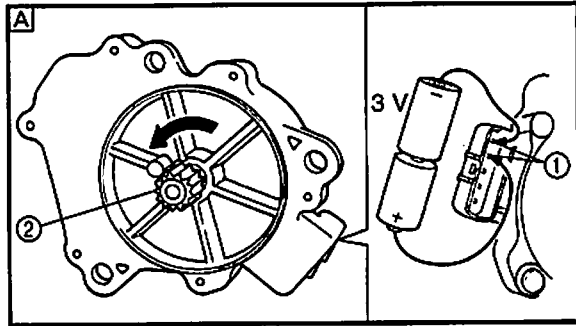
- Connect two C size batteries to the gear motor terminals ① (as shown illustrations).

**A** Check that the pinion gear ② turns counter-clockwise.

**B** Check that the pinion gear ② turns clockwise.

- Make sure that the drive gear (shift fork sliding gear) operates correctly.

**NOTE:**  
When installing the differential gear case in the gear motor, refer to "FRONT CONSTANT VELOCITY JOINTS, DIFFERENTIAL GEAR AND DRIVE SHAFT" in chapter 7.



INCORRECT



Replace the gear motor.

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**9. Wiring connection**

- Check the connections of the entire 2WD/4WD selecting system.

Refer to "CIRCUIT DIAGRAM".



POOR CONNECTION

Properly connect the 2WD/4WD selecting system.

Replace the C.D.I. unit.