

BS 5-14-14

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SERVICE BULLETIN



M-1367

April 9, 2014

2014 TRIKE SERVICE MANUAL SUPPLEMENT CORRECTION

Purpose

The purpose of this bulletin is to communicate corrections to the parking brake lamp diagnostic procedures in the 2014 Trike service manual supplement.

Vehicles Affected

All 2014 Trike models are affected.

Markets Affected

All markets where Trikes are sold are affected.

Required Dealer Action

Perform the following steps to update your 2014 Trike service manual supplement with the correct parking brake indicator lamp diagnostic procedures.

1. Strike out the **Parking Brake Lamp** subtopic in the **DESCRIPTION AND OPERATION** topic in **7.16 INDICATOR LAMP DIAGNOSTICS**. Replace it with the following text and table.

Parking Brake Lamp

The parking brake switch opens when the parking brake is engaged. This illuminates the parking brake indicator.

The parking brake indicator is controlled through the (TN/GN) wire connected to the IM. When ground is removed from [39] terminal 4, the IM illuminates the parking brake indicator.

Table 1. Parking Brake Specification

SENSOR	SPECIFICATION
Gap	0.177-0.197 in (4.5-5.0 mm)

2. Strike out the **PARKING BRAKE LAMP ALWAYS ON** and **PARKING BRAKE LAMP INOPERATIVE** procedures in **7.16 INDICATOR LAMP DIAGNOSTICS**. Replace them with the procedures on the following page.

NOTE

In the interest of preserving customer safety and satisfaction, always check for outstanding recalls whenever any motorcycle is brought into your dealership for either maintenance or service.

ROUTING	SERVICE MANAGER	SALES MANAGER	PARTS MANAGER	WARRANTY PROCESS MANAGER	LEAD TECHNICIAN	TECHNICIAN NO. 1	TECHNICIAN NO. 2	TECHNICIAN NO. 3	RETURN THIS TO
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PARKING BRAKE LAMP ALWAYS ON

Table 2. Tools

PART NUMBER	TOOL NAME
HD-41404	HARNES CONNECTOR TEST KIT
HD-42682	BREAKOUT BOX
HD-46601	BREAKOUT BOX ADAPTERS

Table 3. Parking Brake Lamp Always On Diagnostic Faults

POSSIBLE CAUSES
Open in parking brake switch circuit
Parking brake switch malfunction
Incorrect gap between sensor and magnet
Missing magnet

NOTE

Before testing, verify the following:

- The magnet is present.
- The gap between sensor and magnet is within specification when parking brake is released.

1. Parking Brake Circuit Test

1. Release parking brake.
2. Does parking brake lamp turn off?
 - a. **Yes.** Test for intermittent. Perform wiggle test. See the electrical diagnostic manual.
 - b. **No.** Go to Test 2.

2. Switch Test

1. Turn IGN OFF.
2. Disconnect parking brake switch [276].
3. Using HARNES CONNECTOR TEST KIT (Part No. HD-41404), jumper between [276A] terminals 1 and 2.
4. Turn IGN ON.
5. Did parking brake lamp turn OFF?
 - a. **Yes.** Replace parking brake switch. (6020)
 - b. **No.** Go to Test 3.

3. Open BK/GN Test

1. Turn IGN OFF.
2. Remove jumper from [276A].
3. Test resistance between [276A] terminal 2 and ground (BK/GN).

4. Is resistance greater than 0.5 Ohms?
 - a. **Yes.** Repair open between [276A] terminal 2 and ground (TN/GN). (5041)
 - b. **No.** Go to Test 4.

4. Open TN/GN Test

1. Connect BREAKOUT BOX ADAPTERS (Part No. HD-46601) to [39]. Attach connectors from BREAKOUT BOX (Part No. HD-42682) to harness adapters, leaving [39A] disconnected.
2. Test resistance between BOB terminal 4 and [276A] terminal 1 (TN/GN).
3. Is resistance greater than 0.5 Ohms?
 - a. **Yes.** Repair open between [276A] terminal 1 and IM [39B] terminal 4 (TN/GN). (5041)
 - b. **No.** Replace IM.

PARKING BRAKE LAMP INOPERATIVE

Table 4. Tools

PART NUMBER	TOOL NAME
HD-41404	HARNES CONNECTOR TEST KIT

Table 5. Parking Brake Lamp Inoperative Diagnostic Faults

POSSIBLE CAUSES
Parking brake switch malfunction
Short to ground in parking brake circuit

1. Parking Brake Switch Test

1. Turn IGN OFF.
2. Disconnect parking brake switch [276].
3. Turn IGN ON.
4. Did parking brake lamp turn ON?
 - a. **Yes.** Replace parking brake switch. (6020)
 - b. **No.** Go to Test 2.

2. Grounded TN/GN Test

1. Turn IGN OFF.
2. Disconnect speedometer [39].
3. Using HARNES CONNECTOR TEST KIT (Part No. HD-41404), test continuity between [276A] terminal 1 and ground.
4. Is continuity present?
 - a. **Yes.** Repair short to ground between [276A] terminal 1 and ground. (5041)
 - b. **No.** Replace IM.