SERVICE BULLETIN



M1505 2020-01-02

M1505: LEFT HAND CONTROL MODULE DIAGNOSTICS

Reason for Revision

Refer to Table 1.

Table 1. Document History

Date	Revision Description		
2019-12-13	Initial release		
	Туро		
2020-01-02	Updated Required Dealer Action: Vehicle * Does Not Start In Gear With Clutch Pulled In or Gear Indicator Inoperative & Trip Switch Inoperative		

Purpose for Service Bulletin

To inform the dealers of extra symptom-based diagnostics for the LHCM (Left Hand Control Module).

The additional diagnostics cover:

- Vehicle Does Not Start In Gear With Clutch Pulled In or Gear Indicator Inoperative
- · Trip Switch Inoperative

Motorcycles Affected

CAN (Controller Area Network) based Touring, Police Touring, Touring CVO and Trike.

Markets Affected

All markets are affected.

Parts

Table 2. LHCM Part Numbers

Part numbers					
71500128A	71500135A	71500505	71500234A		
71500503	71500236A	71500529	71500131A		
71500419	71500126A	71500084B	71500131B		
71500505	71500128B	71500135A			
71500529	71500503	71500236A			
71500084A	71500419A	71500126A			

Required Dealer Action

These diagnostics are for vehicles without hand control DTCs (Diagnostic Trouble Codes). If a vehicle has hand control DTCs, Harley-Davidson recommends using:

- DIGITAL TECHNICIAN II (PART NUMBER: HD-48650)
- Electrical diagnostic manual: For the vehicles year and model that may exhibit one or both of these symptoms.

These additional diagnostics are designed for all Touring based vehicles using CAN.

- Vehicles that are out of factory warranty are the responsibility of the customer.
- Vehicles that are within factory warranty refer to the Credit Procedure: Table 3 or Table 4.

Vehicle Does Not Start In Gear With Clutch Pulled In or Gear Indicator Inoperative

NOTE

The verification of the customer's concern must be performed on vehicle.

- 1. Is customers concern present on vehicle currently?
 - a. Yes. Go to Step 2.
 - b. No. Concern is not present. No repair necessary.
- 2. Do any switches on the LHCM function properly?
 - a. Yes. Go to Step 5.
 - b. No. Go to Step 3.
- Remove left hand control covers, disconnect and connect LHCM [24D]. See the service manual.
- 4. Do any switches on the LHCM function properly?
 - a. Yes. Go to Step 5.
 - b. **No.** Replace LHCM.
- 5. Connect DT II (Digital Technician II).

Special Tool: DIGITAL TECHNICIAN II (HD-48650)

- 6. Does DT II's Live Data screen change when clutch lever is pulled in and released?
 - a. Yes. Go to Step 7.

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

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ROUTING	SERVICE MANAGER	SALES MANAGER	PARTS MANAGER	WARRANTY PROCESS MANAGER	LEAD TECHNICIAN	TECHNICIAN NO. 1	TECHNICIAN NO. 2	TECHNICIAN NO. 3	RETURN THIS TO
INITIAL HERE									

- b. No. Go to Step 9.
- Install hand control covers. See the service manual.
- 8. Does DT II's Live Data screen change when clutch lever is pulled in and released?
 - a. Yes. Concern corrected.
 - No. Verify that mechanical interferences or alignment issues are not preventing switch operation. Do not replace LHCM.

NOTE

Do not open the hydraulic line.

- Remove master cylinder/clutch lever assembly from handlebars. See the service manual.
 - Position master cylinder/clutch lever assembly out-of-way.
- 10. Does DT II's Live Data screen change when clutch switch button is pressed and released?
 - a. Yes. Confirm that proper clutch lever is installed. Install master cylinder/clutch lever assembly. Verify that mechanical interferences or alignment issues are not preventing switch operation. Do not replace LHCM.
 - b. No. Go to Step 11.
- 11. Remove left hand control covers. See the service manual.
- 12. Does DT II's Live Data screen change when clutch switch button is pressed and released?
 - Yes. Install the master cylinder/clutch lever assembly and hand control covers and verify that mechanical interferences or alignment issues are not preventing switch operation. Do not replace LHCM.
 - b. No. Go to Step 13.
- 13. Press clutch switch completely into hand control module five times while blowing air on switch.

Pressure: 69 kPa (10.0 psi)

- 14. Does DT II's Live Data screen change when clutch switch button is pressed and released?
 - Yes. Install the master cylinder/clutch lever assembly and hand control covers and verify that mechanical interferences or alignment issues are not preventing switch operation. Do not replace LHCM.
 - b. No. Replace LHCM.

Trip Switch Inoperative

NOTE

The verification of the customer's concern must be performed on vehicle.

- 1. Is customers concern present on vehicle currently?
 - a. Yes. Go to Step 2.
 - b. No. Concern is not present. No repair necessary.
- 2. Do any switches on the LHCM function properly?
 - a. Yes. Go to Step 5.
 - b. **No.** Go to Step 3.
- 3. Remove left hand control covers, disconnect and connect LHCM [24D]. See the service manual.
- 4. Do any switches on the LHCM function properly?
 - a. Yes. Go to Step 5.
 - b. No. Replace LHCM.
- 5. Does pressing trip switch change the display in the odometer?
 - a. Yes. Go to Step 6.
 - b. No. Go to Step 8.
- 6. Install hand control covers. See the service manual.
- 7. Does pressing trip switch change the display in the odometer?
 - a. Yes. Concern corrected.
 - No. verify that mechanical interferences or alignment issues are not preventing switch operation. Do not replace LHCM.
- Connect DT II (Digital Technician II).
 Special Tool: DIGITAL TECHNICIAN II (HD-48650)
- 9. Does DT II's Live Data screen change when trip switch button is pressed and released?
 - Yes. Inspect speedometer for issues. Do not replace LHCM.
 - b. No. Go to Step 10.
- 10. Remove the trip switch cap. See the service manual.
- 11. Does DT II's Live Data screen change when trip switch button is pressed and released?
 - Yes. Install the trip switch cap. Verify that mechanical interferences are not preventing switch operation.
 Do not replace LHCM.
 - b. No. Go to Step 12.
- 12. Remove hand control covers. See the service manual.

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- 13. Does DT II's Live Data screen change when trip switch button is pressed and released?
 - Yes. Install the hand control covers. Verify that mechanical interferences are not preventing switch operation. Do not replace LHCM.
 - b. **No.** Replace LHCM.

Credit Procedure

This Credit Procedure only applies to vehicles within factory warranty.

NOTE

- Enter bulletin number into comment section of claim.
- Enter comments explaining exactly what was found during the diagnostic procedure.

Credit Procedure: Repaired - No Replacement of Parts Required

Submit a warranty claim per Table 3 for repair not requiring replacement of part.

Table 3. No Replacement Of Parts Required

ITEM	DATA
Claim Type	MC / Standard Claim
Problem Part Number	See Table 2
Quantity	Leave Blank
Primary Labor Code	6175
Time	0.3 h
Customer Concern Code	7302
Condition Code	6175

Credit Procedure: Repaired - Replacement of Parts Required

Submit a warranty claim per Table 4 for repair requiring replacement of part.

Table 4. Replacement Of Parts Required

ITEM	DATA
Claim Type	MC / Standard Claim
Problem Part Number	See Table 2
Quantity	1
Primary Labor Code	6165
Time	0.6 h
Customer Concern Code	7302
Condition Code	6165

Return Parts

Hold all claimed parts for 60 d from date of credit issued for possible field inspection and/or request to return to factory. After 60 d, destroy and discard the parts.

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