



Technical Support

Subject
Test Procedure for Throttle Commander Pendants

System or Parts affected – Throttle Commander Standalone Throttle Control for Ford with Remote Pendant/Fire Pendant (RP/FP).

- T500075 SATC, RP, F250-550 7.3L 2001-2002
- T500076 SATC, FP FORD 7.3L 2001.25-2002.25
- T500083 SATC, RP, FORD F250-F550, 6.0L 2003.25-2004
- T500084 SATC, FP, FORD F250-F550,6.0L 2003.25-2004
- T500106 SATC, FP FORD F250-550,6.0L 2005-2007
- T500107 SATC, RP FORD 2005-2010, DIESEL SEIC
- T500108 SATC, FORD 2005-2010 5.4L & 6.8L GAS SEIC
- T500116 FPTC, FORD F250-F550 6.4 LT 2008-2010
- T500121 SATC, FORD, GAS SEIC, 6.2L & 6.8L 2011-2014
- T500122 SATC, FORD, 6.7L SEIC 2011-2017, 6.2L & 6.8L Gas 2017+

Overview

- The purpose of this article is to supply diagnostics information for the remote or fire pendants used with select VMAC Throttle Commanders for Ford.
- If you already know the part number of your pendant, refer directly to the Index below to find the required test procedure.
- If you do not know the part number of your pendant, cross-reference the VMAC Model Numbers and Ford Model/Year/Engine information above with the information in the index below to find the required test procedure.

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If further assistance is required, contact VMAC Technical Support at 1-888-241-2289 or email tech@vmacair.com

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Subject
Test Procedure for Throttle Commander Pendants

Pendant part number 3550605 for Throttle Commander T500076

Test Procedure

- 1) Test Continuity between BROWN and GREEN leads:
 - i. Continuity in the ON switch position
 - ii. No continuity in the switch OFF position
- 2) Check resistance values as illustrated in the test matrix Below

RESISTANCE	FULL CCW**	FULL CW*
RED TO WHITE	0.9 - 1.1 KΩ	1.9 – 2.1 KΩ
RED TO BLACK	2.9 - 3.1 KΩ	1.9 – 2.1 KΩ

* CW =Clockwise
**CCW= Counter clockwise

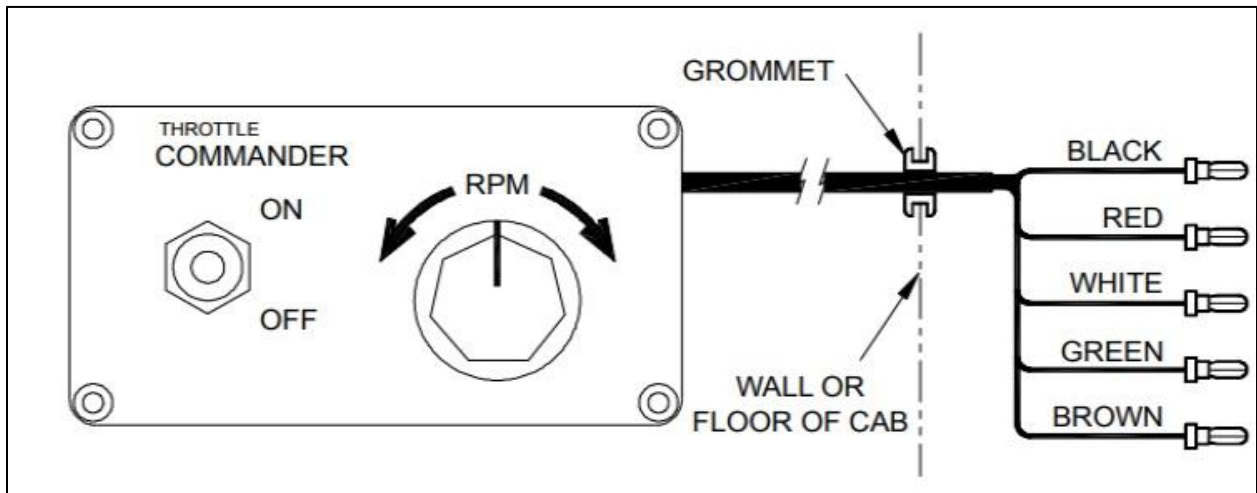


Figure 1

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Subject
Test Procedure for Throttle Commander Pendants

Pendant part number 3550607 for Throttle Commander T500075

Test Procedure

- 1) Test Continuity between BROWN and GREEN leads:
 - i. Continuity in the ON switch position
 - ii. No continuity in the switch OFF position
- 2) Check resistance values as illustrated in the test matrix Below:

RESISTANCE	FULL CCW**	FULL CW*
RED TO WHITE	0.9 - 1.1 K Ω	1.9 - 2.1 K Ω
RED TO BLACK	3.6 - 3.8 K Ω	2.6 - 2.8 K Ω

* CW =Clockwise
 **CCW= Counter clockwise

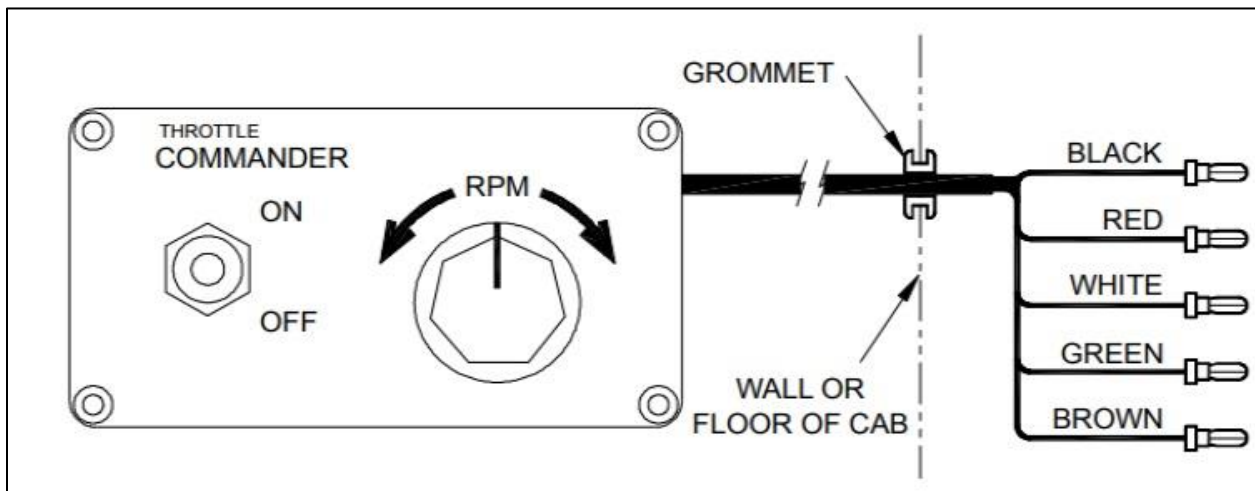


Figure 2

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Test Procedure for Throttle Commander Pendants

**Pendant part number 3550684 for Throttle Commanders:
T500083, T500084, T500106, T500116**

Test Procedure

- 1) Test Continuity between BROWN and GREEN leads:
 - i. Continuity in the ON switch position
 - ii. No continuity in the switch OFF position
- 2) Check resistance values as illustrated in the test matrix Below:

RESISTANCE	FULL CCW**	FULL CW*
RED TO WHITE	0 - 4 Ω	890 – 910 Ω
RED TO BLACK	890 - 910 Ω	0 – 4 Ω

* CW =Clockwise
**CCW= Counter clockwise

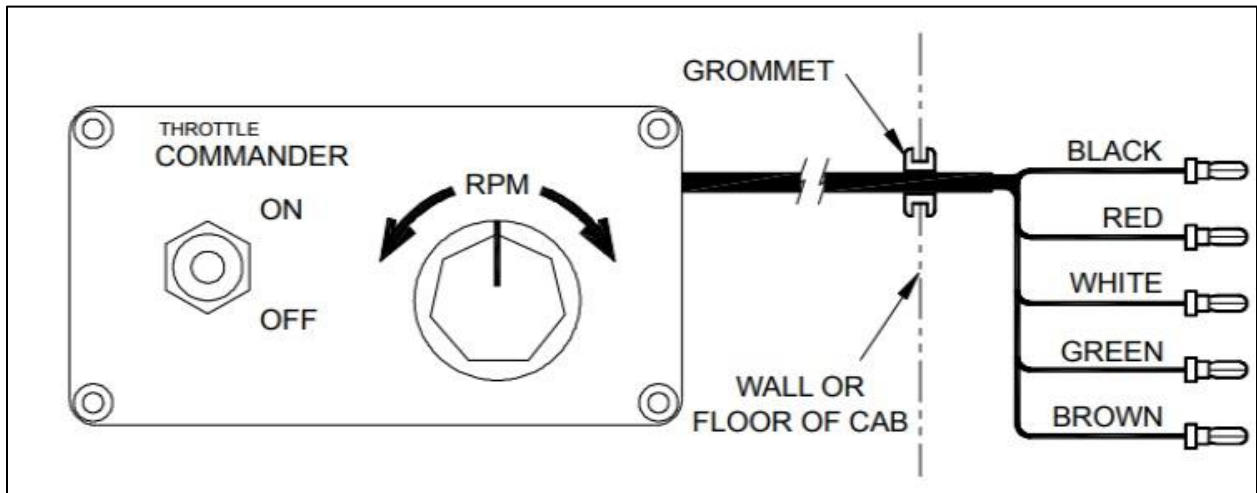


Figure 3

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Test Procedure for Throttle Commander Pendants

Pendant part number 3550706 for Throttle Commander T500107

Test Procedure

- 1) Test Continuity between BROWN and GREEN leads:
 - i. Continuity in the ON switch position
 - ii. No continuity in the switch OFF position
- 2) Check resistance values as illustrated in the test matrix Below:

RESISTANCE	FULL CCW**	FULL CW*
RED TO BLACK	31.5 – 38.5 KΩ	0 – 25 Ω

* CW =Clockwise
 **CCW= Counter clockwise

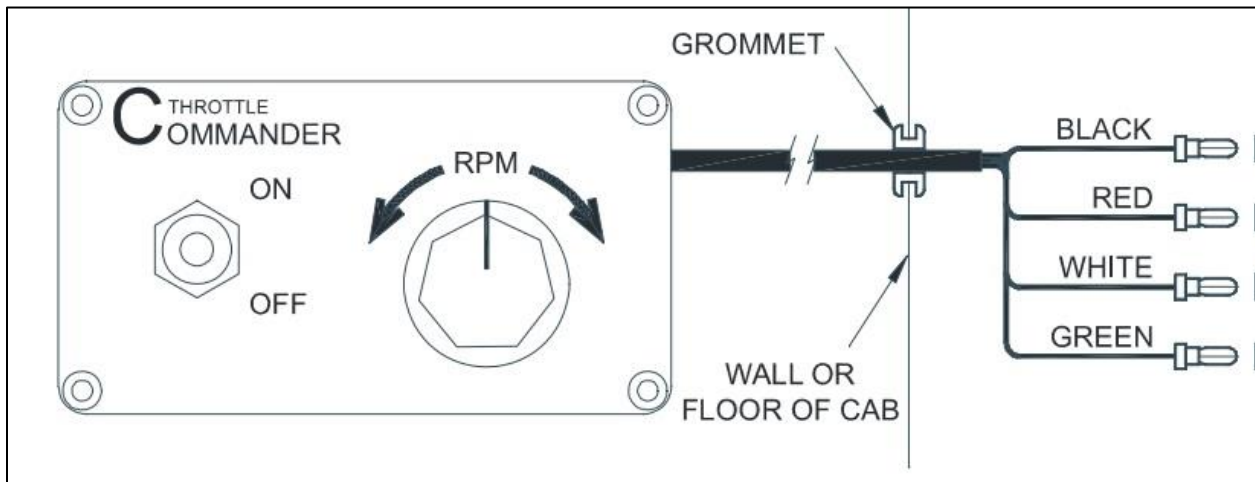


Figure 4

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Test Procedure for Throttle Commander Pendants

**Pendant part number 3550707 for Throttle Commanders:
T500108, T500121**

Test Procedure

- 1) Test Continuity between WHITE and GREEN leads:
 - i. Continuity in the ON switch position
 - ii. No continuity in the switch OFF position
- 2) Check resistance values as illustrated in the test matrix Below:

RESISTANCE	FULL CCW**	FULL CW*
RED TO BLACK	4.5 – 5.5 KΩ	0 – 4 Ω

* CW =Clockwise
**CCW= Counter clockwise

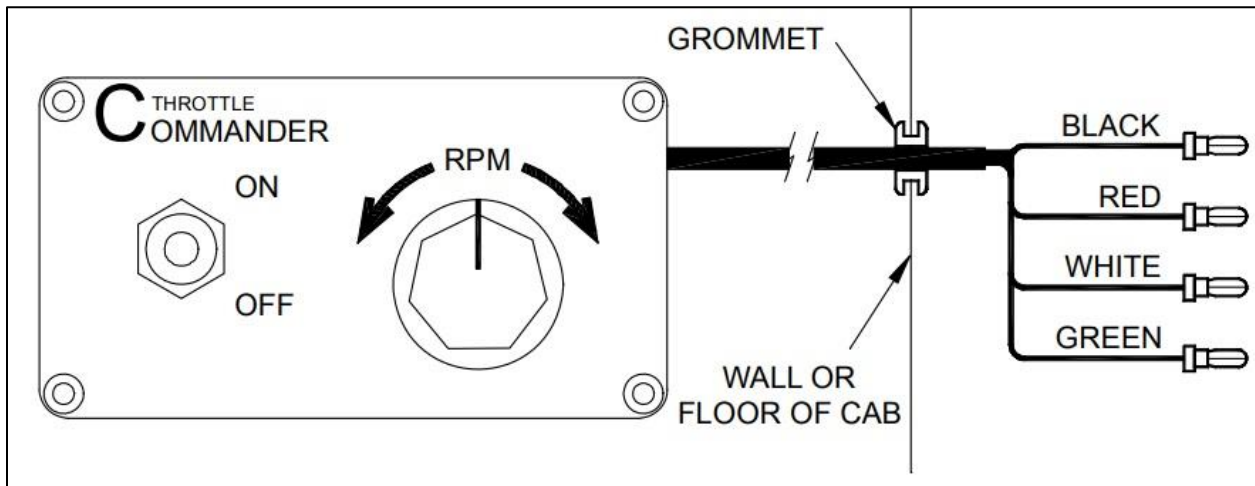


Figure 5

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Test Procedure for Throttle Commander Pendants

Pendant part number 3550765 for Throttle Commander T500122

Test Procedure

- 1) Test Continuity between WHITE and GREEN leads:
 - i. Continuity in the ON switch position
 - ii. No continuity in the switch OFF position

Check resistance values as illustrated in the test matrix Below

RESISTANCE	FULL CCW**	FULL CW*
GREEN TO BLACK	0 - 4 Ω	Greater than 4.0 KΩ
GREEN TO RED	Greater than 4.0 KΩ	0 - 4 Ω

* CW =Clockwise

**CCW= Counter clockwise

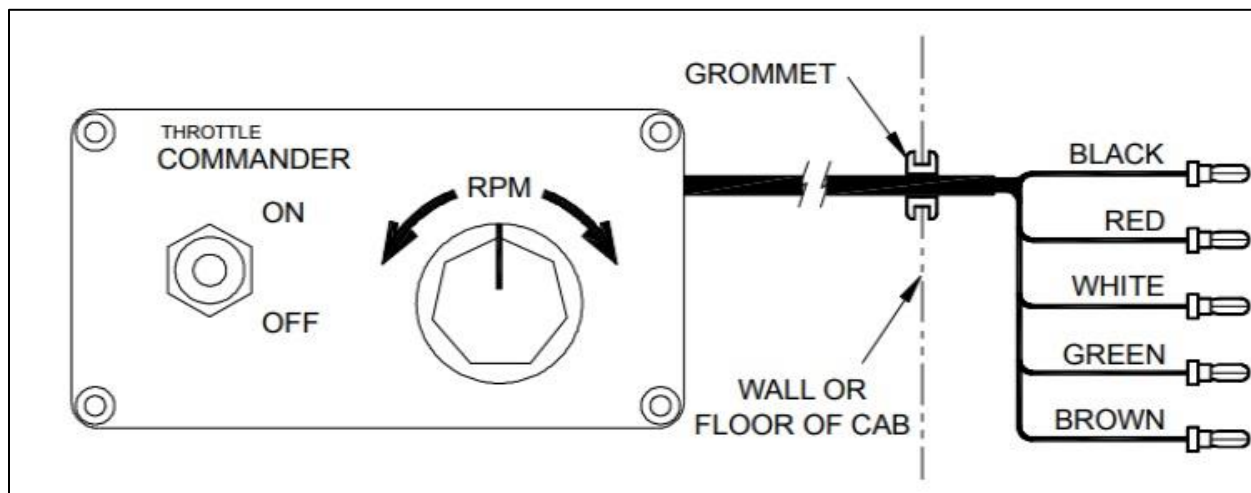


Figure 6

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