FORCE Outboards

service bulletin

No. 91-16

Three and Four Cylinder Outboard and L-Drive Test Procedures - Thunderbolt CDI Ignition System

An error has been found in the electrical test procedures on the 3 and 4 cylinder outboards and L-drives. In OB4799 (wiring diagram collection) on pages 19, 23, 27 and 31 the stator resistance test is incorrect. Enclosed are correct test procedures. They are adhesive backed and should be placed over the incorrect test procedures in the wiring diagram collection OB4799 on pages 19, 23, 27 and 31.

90 HP Outboard and L-drive (pages 19 and 23)

TEST 4: STATOR RESISTANCE TEST

SR1 Red meter lead to BLU stator lead (Lo-speed) see Note 1).	X1K scale	**3600-4200** ohm (if not to specification, replace stator).
SR2 Black meter lead to BLU/WHT stator lead.		
SR3 Red meter lead to RED stator lead (Hi-speed).	X1 scale	90-140 ohm (if not to specification, replace stator).
SR4 Black meter lead to RED/WHT stator lead.		

NOTE 1: Disconnect leads from switch box before testing.

120 HP Outboard and L-drive (pages 27 and 31)

TEST 4: STATOR RESISTANCE TEST

SR1 Red meter lead to RED stator lead (Lo-speed) see Note 1).	X1K scale	**6800-7600** ohm (if not to specification, replace stator).
SR2 Black meter lead to BLU stator lead.		
SR3 Red meter lead to RED stator lead (Hi-speed).	X1 scale	90-140 ohm (if not to specification, replace stator).
SR4 Black meter lead to a good ground.		

NOTE 1: Disconnect leads from switch box before testing.

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TEST 4: STATOR RESISTANCE TEST			
SR1 Red meter lead to BLU stator lead (Lo-speed) see Note 1). **SR2** Black meter lead to BLU/WHT stator lead. **SR3** Red meter lead to RED stator lead (Hi-speed). **SR4** Black meter lead to RED/WHT stator lead. NOTE 1: Disconnect leads from switch box before testing.	X1K scale X1 scale	**3600-4200** ohm (if not to specification, replace stator). 90-140 ohm (if not to specification, replace stator).	1-1/8”
TEST 4: STATOR RESISTANCE TEST			
SR1 Red meter lead to BLU stator lead (Lo-speed) see Note 1). **SR2** Black meter lead to BLU/WHT stator lead. **SR3** Red meter lead to RED stator lead (Hi-speed). **SR4** Black meter lead to RED/WHT stator lead. NOTE 1: Disconnect leads from switch box before testing.	X1K scale X1 scale	**3600-4200** ohm (if not to specification, replace stator). 90-140 ohm (if not to specification, replace stator).	1-1/8”
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TEST 4: STATOR RESISTANCE TEST			
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TEST 4: STATOR RESISTANCE TEST			
SR1 Red meter lead to RED stator lead (Lo-speed) see Note 1). **SR2** Black meter lead to BLU stator lead. **SR3** Red meter lead to RED stator lead (Hi-speed). **SR4** Black meter lead to a good ground. NOTE 1: Disconnect leads from switch box before testing.	X1K scale X1 scale	**6800-7600** ohm (if not to specification, replace stator). 90-140 ohm (if not to specification, replace stator).	1-1/4”
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SR1 Red meter lead to RED stator lead (Lo-speed) see Note 1). **SR2** Black meter lead to BLU stator lead. **SR3** Red meter lead to RED stator lead (Hi-speed). **SR4** Black meter lead to a good ground. NOTE 1: Disconnect leads from switch box before testing.	X1K scale X1 scale	**6800-7600** ohm (if not to specification, replace stator). 90-140 ohm (if not to specification, replace stator).	1-1/4”
TEST 4: STATOR RESISTANCE TEST			
SR1 Red meter lead to RED stator lead (Lo-speed) see Note 1). **SR2** Black meter lead to BLU stator lead. **SR3** Red meter lead to RED stator lead (Hi-speed). **SR4** Black meter lead to a good ground. NOTE 1: Disconnect leads from switch box before testing.	X1K scale X1 scale	**6800-7600** ohm (if not to specification, replace stator). 90-140 ohm (if not to specification, replace stator).	1-1/4”

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