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PART NO. 82-233/82-233L

ELLIPTICAL MINI DRIVING LIGHT KIT

FITMENT: SUZUKI VL800 AND C50

11/29/2016

TOOLS NEEDED:	PHILLIPS SCREWDRIVER	2MM ALLEN WRENCH	3MM ALLEN WRENCH	4MM ALLEN WRENCH	5MM ALLEN WRENCH
	6MM ALLEN WRENCH	10MM SOCKET WRENCH	12MM SOCKET WRENCH	13MM SOCKET WRENCH	14MM SOCKET WRENCH
	DRILL	13/16" DRILL BIT	THREAD LOCKER	WIRE CUTTER/CRIMPER	

PLEASE READ THROUGH AND UNDERSTAND THESE INSTRUCTIONS BEFORE BEGINNING. USE REMOVABLE THREAD LOCK ON ALL FASTENERS.

ESTIMATED INSTALLATION TIME: 90 TO 120 MIN.

INSTALLATION: DIAGRAM 1

1. DISCONNECT THE NEGATIVE BATTERY CABLE.
 2. USING 3MM ALLEN WRENCH REMOVE THE SCREW UNDERNEATH THE OEM TURN SIGNAL BAR COVER. REMOVE THE COVER.
 3. USING PHILLIPS SCREWDRIVER REMOVE THE SCREW ON EACH SIDE OF THE HEADLIGHT HOUSING AND REMOVE AND UNPLUG THE HEADLIGHT.
 4. USING 14MM WRENCH REMOVE THE NUT HOLDING EACH TURN SIGNAL TO THE TURN SIGNAL BRACKET, FOLLOW WIRES INTO THE HEADLIGHT HOUSING AND UNPLUG BE SURE TO MARK WHICH IS LEFT OR RIGHT TURN SIGNAL.
 5. **VL800 ONLY:** USING PHILLIPS SCREWDRIVER REMOVE THE SCREW AT THE BACK OF EACH TURN SIGNAL HOLDING TURN SIGNAL TO MOUNTING STEM AND REMOVE THE MOUNTING STEM. WILL HAVE TO CUT THE WIRES THE CONNECTORS WILL NOT FIT THROUGH HOLE.
 6. USING THE 6MM ALLEN WRENCH REMOVE THE TWO SCREWS HOLDING THE TURN SIGNAL BRACKET TO THE TRIPLE TREE AND REMOVE THE BRACKET.
 7. USING 10MM SOCKET REMOVE THE TWO SCREWS HOLDING THE PLASTIC WIND DEFLECTOR UNDERNEATH THE TRIPLE TREE.
 8. TAKE EACH MINI LIGHT AND ONE AT A TIME REMOVE THE SET SCREW (Q) AND APPLY A DROP OF THREAD LOCK. REPEAT THIS FOR ALL 6 SET SCREWS.
 9. INSTALL THE MINI LIGHTS (H) ONTO THE LIGHT BAR (G) USING THREADED STEM (D) AND LOCK NUTS (P) PROVIDED WITH THE LIGHTS. TIGHTEN WITH A 12MM SOCKET. (CONNECT THE GROUND WIRE WITH THE RING TERMINAL TO THE M6 - 1.0 X 20MM LONG (I) SOCKET HEAD CAP SCREW AND THE POSITIVE WIRE WITH BULLET CONNECTOR WILL GO INTO THE EXTRA HOLE ON TOP OF LIGHT BAR, WILL HAVE TO REMOVE BULLET CONNECTOR TO FIT INTO HOLE).
- NOTE: STEP 10, 11, & 15 ARE FOR INSTALLING OEM TURN SIGNALS WITH 82-222T OR 82-229T ADAPTERS.**
10. **VL800 ONLY:** INSTALL EACH OEM TURN SIGNAL (K) ONTO THE TURN SIGNAL ADAPTER (L) ROUTING THE WIRES THROUGH THE EXTRA HOLE IN THE ADAPTER. USE THE M6 - 1.0 X 10MM LONG FLAT HEAD SCREW PROVIDED TO ATTACH TURN SIGNAL TO TURN SIGNAL ADAPTER.
 11. ROUTE THE OEM TURN SIGNAL WIRES AND THE MIN LIGHT WIRE UNDER THE LIGHT BAR (G).
 12. THE TURN SIGNAL ADAPTER (L) WITH OEM TURN SIGNAL (K) CAN BE POSITIONED INTO THE LOWER ENDS OF THE LIGHT BAR (G) AND SECURED WITH THE SET SCREWS (N) THE SHORT SET SCREWS GO IN THE BACK HOLES. THERE ARE THREE SET SCREWS ON EACH SIDE.
 13. INSTALL THE MOUNTING PLATE (E) TO THE BOTTOM OF THE TRIPLE TREE, USING 20MM EXTENSION NUTS (A) AND M8 - 1.25 X 15MM LONG SOCKET HEAD CAP SCREWS (C) PROVIDED.
 14. USING THE M6 - 1.0 X 16MM LONG SOCKET HEAD CAP SCREWS AND LOCK WASHERS PROVIDED (B) INSTALL THE LIGHT BAR (G) TO THE MOUNTING PLATE (E). TIGHTEN SECURELY WITH A 4MM ALLEN WRENCH.
 15. RE-INSTALL THE PLASTIC WIND DEFLECTOR THAT WAS REMOVED IN STEP 7.
 16. RE-ROUTE THE TURN SIGNAL (K) WIRES WIRE INTO THE HEADLIGHT HOUSING AND RE-CONNECT AS THEY WERE. MAY HAVE TO ADD LENGTH TO THE WIRES.
 17. LOCATE YOUR BIKE'S BATTERY, FUSE BLOCK AND /OR ACCESSORY TERMINALS AND WIRE ACCORDING TO **DIAGRAM 2**.

NOTE: IF A 13-207 SWITCH BLOCK IS PURCHASED, STEPS C & E CAN BE SKIPPED AND PLUG ONE OF THE SWITCHES INTO THE RELAY.

- A) CONNECT THE BULLET CONNECTORS ON BLACK WIRES TO BULLET CONNECTORS ON LIGHT.
 - B) WIRE SMALL GREEN AND RED HARNESS WITH IN-LINE FUSE DIRECTLY TO BATTERY: RED (+) POSITIVE, GREEN (-) NEGATIVE.
 - C) FIND A CONVENIENT PLACE TO INSTALL THE SWITCH. DRILL A PILOT HOLE FIRST AND THEN DRILL A 13/16" HOLE.
 - D) ROUTE WIRE HARNESS AND PLUG THREE SPADE CONNECTORS TO SWITCH PER DIAGRAM: (GREEN=GROUND: ORANGE=SUPPLY: BLUE=LEAD).
 - E) CONNECT THE RING TERMINAL TO THE BATTERY GROUND AND SPLICE THE T-TAP INTO A KEYED POWER SOURCE AND CONNECT THE MALE SPADE.
 - F) CONNECT THE REMAINING FIVE LEADS (2 BLACK, 1 RED, 1 BLUE, AND 1 GREEN) TO THE RELAY PROVIDE AS PER DIAGRAM.
18. TEST LIGHTS FOR PROPER OPERATION BEFORE REINSTALLING ANY REMOVED SIDE COVERS, SEATS, ETC. SECURE RELAY TO KEEP FROM BOUNCING.
 19. USE THE ADHESIVE WIRE HOLDER TO HOLD THE WIRES UNDERNEATH THE LIGHT BAR AND OUT OF SIGHT.

C50 ONLY: USE THE OEM NUT TO ATTACH THE TURN SIGNAL (K) TO THE TURN SIGNAL ADAPTERS (L).

DIAGRAM 1

