Veethree Instruments

5 in 1 Stepper driven Cluster

Installation & Operation Instruction

THE INSTRUCTIONS FOR OPERATION & ELECTRICAL CONNECTIONS OF THE CLUSTER ARE AS FOLLOWS

Part List

Item no.	Description	Qty (in no.s)
1.	5.52" Cluster	1
2.	L-shaped Clamp Bracket	2
3.	Clamp Nuts	2

Installation Instructions

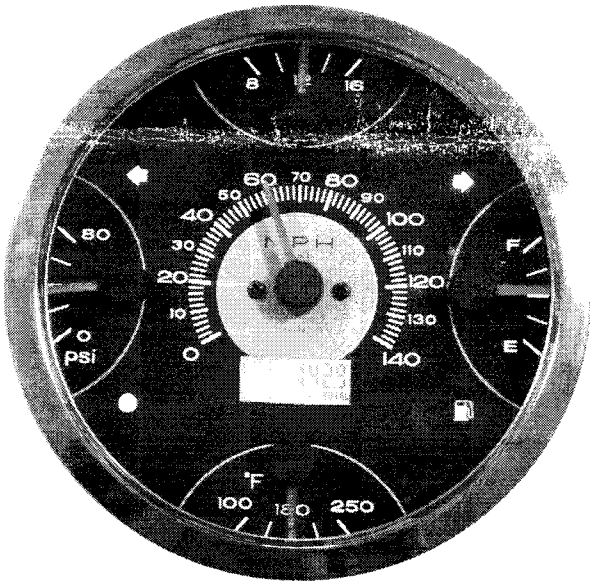


Figure 1
Front view

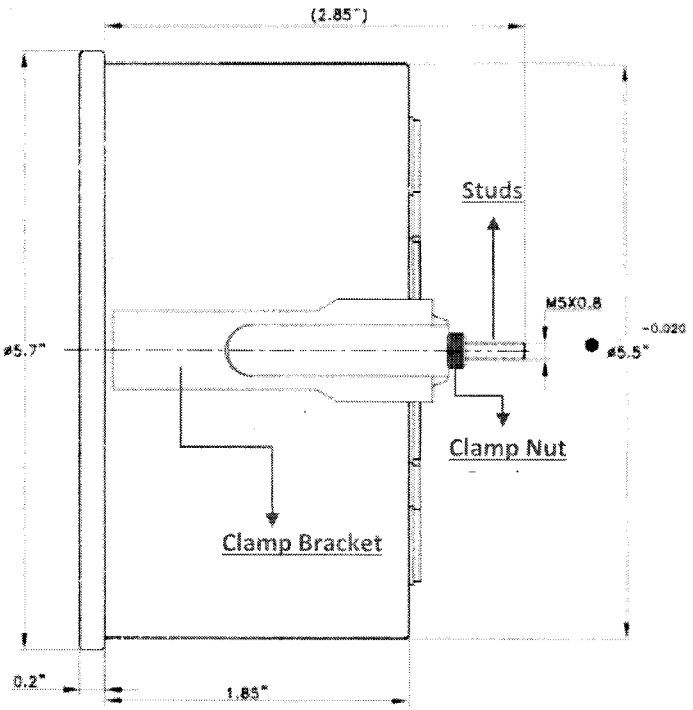


Figure-2
Side view

- Cluster suitable for mounting panel of thickness = 0.019" to 0.275" (0.5mm to 7 mm).
- Maximum depth of cluster = 3.12"
- To mount cluster in panel with the help of two L-shaped brackets, slip in the clamp brackets on studs on rear side of cluster.
- Insert the clamp nuts (M5X0.8 hex nut) in mounting studs.
- Screw on the accompanying nuts using a wrench.
- The nuts tightening torque should not exceed 15 In-Lbs. Do not over tighten the nuts.
- See figure 2 for clamp dimensions & mounting parts details.

Installation Instructions

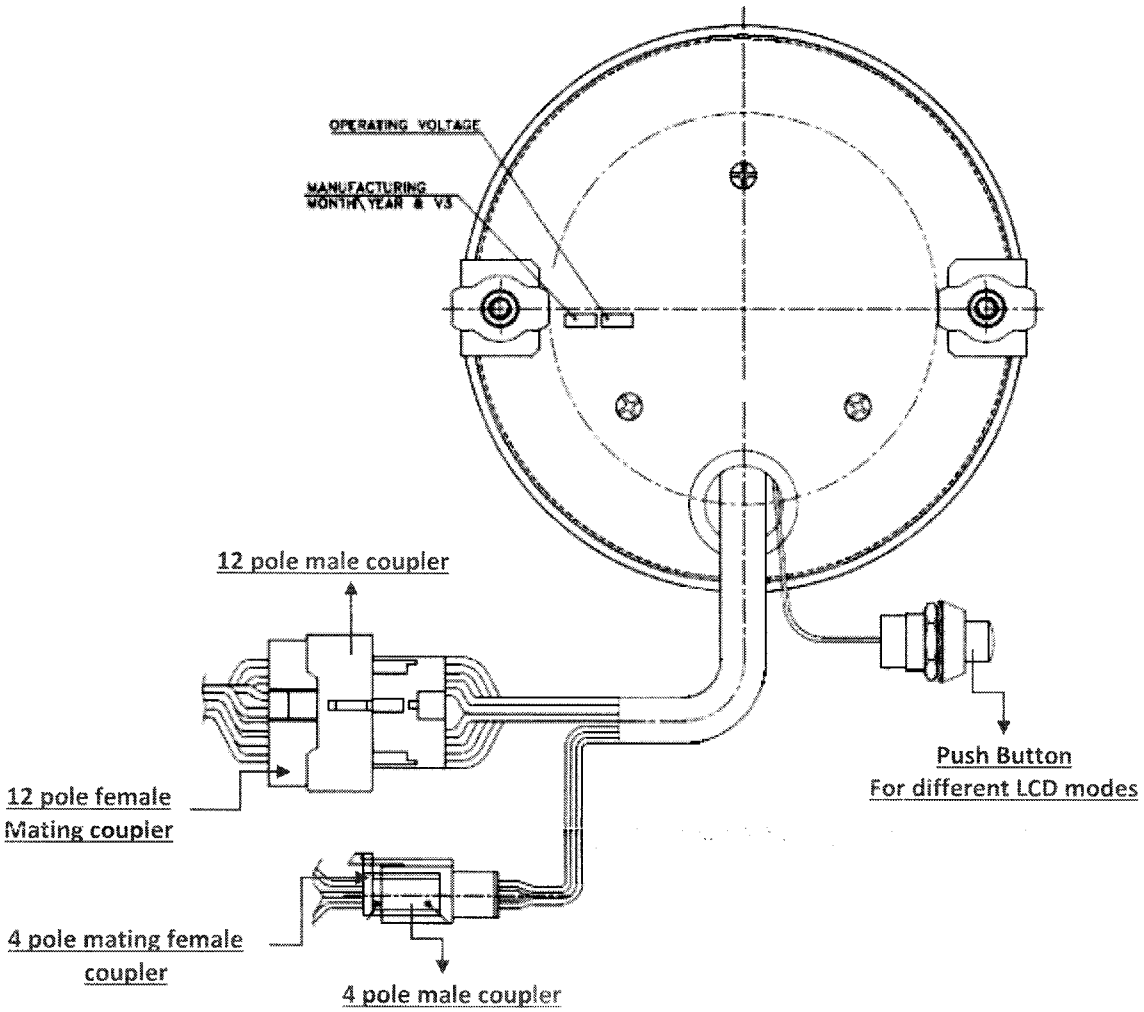
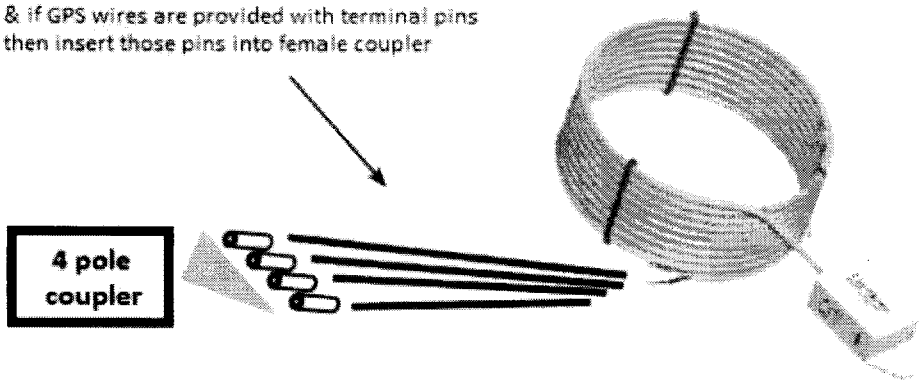


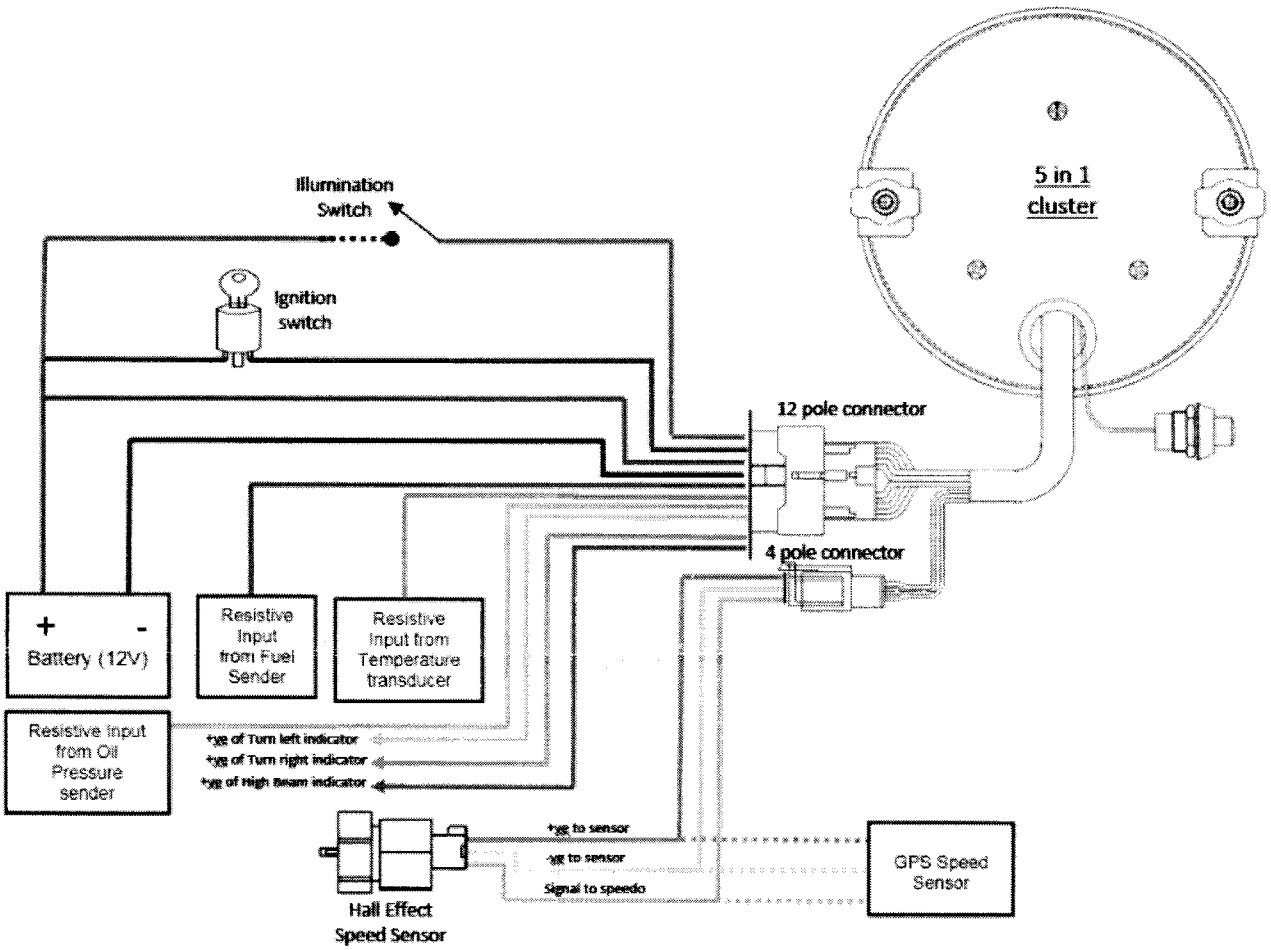
Figure-3
Rear view of cluster

Connection with GPS speed sensor

Tie up the wires of GPS Sensor to female coupler of provided with cluster
& if GPS wires are provided with terminal pins then insert those pins into female coupler



Connection Diagram



Wiring Connections

12 pole Female Coupler Connection

Pin no.	Wire color	Connection
1	Blue - White	Battery +ve
2	Purple	+ve of Turn Left indicator
3	Black	Battery -ve
4	-	Open
5	Red	Ignition +ve
6	-	Open
7	Brown	Fuel Gauge i/p signal
8	Green	Temp. gauge i/p signal
9	Blue	Oil Pres. Gauge i/p signal
10	Red-Green	Gen illum. i/p signal
11	Pink	+ve of High beam indicator
12	White	+ve of Turn right indicator

Table- 1

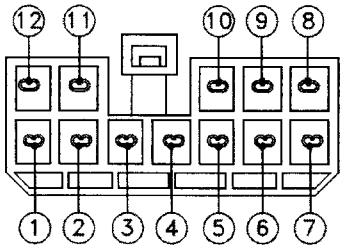


Figure – 4

4 Pole Female coupler connection

Pin no.	Wire color	Connection
1	Red-White	+ve to speed sensor
2	Black-Yellow	-ve to speed sensor
3	Yellow	Speedometer i/p signal
4	-	Open

Table – 2

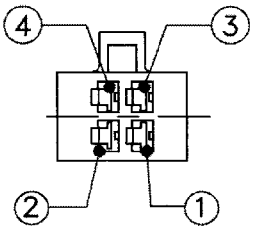


Figure-5

- Electrical connections will be done by connecting two connectors (12 pole & 4 pole).
- See table no. 1 & 2 for wire color and connections for each function.
- Refer figure-4 and figure-5 for pin numbering of 12 pole & 4 pole connector.

Programming Mode Selection

MODE SELECTION FUNCTIONAL DISPLAY

S.NO.	STEPS	LCD DISPLAY
1.	MODE SELECTION: PRESS & HOLD PUSH BUTTON THEN SWITCH ON THE IGNITION KEY. THE UNIT WILL GO INTO PROGRAMMING MODE. KEEP HOLDING THE PUSH BUTTON DOWN,AND THE SCREEN WILL TOGGLE BETWEEN THE FOLLOWING MAIN MENU OPTIONS AT INTERVALS OF 2 SEC. ● PULSE: FOR SPEEDOMETER CALIBRATION MODE ● ILLUMINATION COLOR(ILLU COL) ● CLOCK(00.00): FOR TIME SET ● FUEL: FOR SELECTING INPUT RESISTANCE VALUES FOR FUEL GAUGE SELECTION CAN BE DONE BY RELEASING THE KNOB WHEN DESIRED FUNCTION IS DISPLAYED ON SCREEN.	PULSE ⇩ ILL COL ⇩ 00:00 ⇩ FUEL

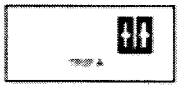
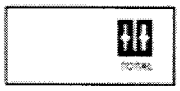
Speedometer Calibration Adjustment

SPEEDO METER CALIB. SETTING FUNCTIONAL DISPLAY

S.NO.	STEPS	LCD DISPLAY
1.	SELECTION OF PULSE MODE: SELECT THE 'PULSE'MODE FROM THE MAIN MENU OPTIONS.	PULSE
2.	AFTER SELECTING 'PULSE' MODE. ● PRESS THE PUSH BUTTON ONCE FOR SELECTING 8 PULSE MODE OF SPEED SENSOR ● SECOND TIME PRESSING THE BUTTON WILL SELECT THE 16 PULSE MODE OF SPEED SENSOR TO SAVE THE ABOVE SET PULSES, IGNITION KEY HAS MAKE "OFF & ON" ONCE.	8 ⇩ 16

Odometer display modes

ODOMETER LCD FUNCTIONAL DISPLAY

S.NO.	STEPS	LCD DISPLAY
1.	SCREEN AT INITIAL POWER ON.	
2.	AFTER 3 SECONDS DEFAULT SCREEN WILL APPEAR.	
3.	a) PRESS PUSH BUTTON ONCE : TRIP 'A' SCREEN WILL APPEAR. b) PRESS & HOLD FOR 2-3 SECONDS TO MAKE TRIP 'A' READING ZERO.	
4.	a) PRESS PUSH BUTTON SECOND TIME : TRIP 'B' SCREEN WILL APPEAR. b) PRESS & HOLD FOR 2-3 SECONDS TO MAKE TRIP 'B' READING ZERO.	
5.	PRESS PUSH BUTTON THIRD TIME TO DISPLAY DIGITAL CLOCK TIME.	
6.	a) PRESS PUSH BUTTON FOURTH TIME TO RETURN BACK IN DEFAULT SCREEN MODE i.e. TOTAL MODE : (THE VALUE IN THIS MODE CAN'T BE RESET TO ZERO)	

Illumination Color Setting

GENERAL ILLUMINATION COLOR CHANGE LCD FUNCTIONAL DISPLAY

S.NO.	STEPS	LCD DISPLAY
1.	SELECTION OF ILLUMINATION COLOR MODE: SELECT THE ILLUMINATION COLOR CHANGE MODE FROM MAIN MENU OPTIONS BY RELEASING THE PUSH BUTTON WHILE 'ILLU COL'IS DISPLAYED ON SCREEN.	
2.	AFTER SELECTING THE 'ILLU COL'MODE, KEEP PRESSING THE BUTTON TO START CHANGING THE ILLUMINATION COLOR i.e. RED->GREEN->BLUE THEN AGAIN STARTED FROM RED. ●TO SAVE THE SET COLOR, IGNITION KEY HAS TO MAKE "OFF&ON"ONCE.	

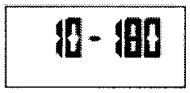
Clock Time Adjustment

CLOCK SETTING LCD FUNCTIONAL DISPLAY

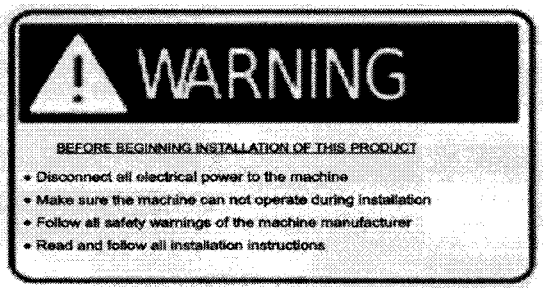
S.NO.	STEPS	LCD DISPLAY
1.	SELECTING OF CLOCK MODE: SELECT THE CLOCK MODE '00.00' FROM THE MAIN MENU OPTIONS.	
2.	AFTER SELECTING THE '00.00'i.e. (HOUR: MIN.) CLOCK MODE Eg: 17:30 ● AFTER PRESSING THE BUTTON ONCE, THE LAST DIGIT FROM RIGHT WILL START FLASHING. SELECT THE REQUIRED DIGIT BY KEEP PRESSING THE BUTTON. ● SHORTLY AFTER THAT DIGIT IS SET, IT WILL FLASH FOR 5 TIMES THEN NEXT DIGIT WILL START FLASHING AUTOMATICALLY & ABLE TO BE SET SIMILARLY. THIS WILL CONTINUE FOR ALL DIGITS HAVE BEEN SET. ● TO SAVE THE SET TIME, IGNITION KEY HAS TO MAKE "OFF&ON"ONCE. ● IGNITION SHOULD NOT BE SWITCH OFF IN BETWEEN THE FLASHING OF DIGITS OTHERWISE THE TIME SETTING WILL NOT BE SAVED.	

Fuel Gauge Calibration Adjustment

FUEL GAUGE CALIBRATION SETTING LCD FUNCTIONAL DISPLAY

S.NO.	STEPS	LCD DISPLAY
1.	SELECTION OF FUEL MODE: SELECT THE 'FUEL'MODE FROM THE MAIN MENU OPTIONS.	
2.	AFTER SELECTING THE 'FUEL'MODE. ● PRESS BUTTON ONCE FOR DISPLAYING THE FUEL GAUGE SETTINGS. i.e. '240–33'FOR INPUT VRESISTIVE VALUE 240 TO 330 ohms ● PRESS BUTTON SECOND TIMEFOR '10–180' FOR INPUT RESISTIV VALUE 10 TO 180 ohms ● THIRD TIME PRESSING '0–90'FOR INPUT RESISTIVE VALUE 0 TO 90 ohms ● TO SAVE THE SELECTED OPTIONS, IGNITION KEY HAS TO MAKE "OFF & ON"ONCE.	  

Safety Instructions



1. Installation & start-up must be performed by skilled person.
2. Read the instruction manual carefully before installation & operation.
3. This instrument was manufactured and tested according to the applicable technical standards. It complies with all the safety regulations as shipped from the factory.
4. If safe operation of the instrument can no longer be ensured, stop and secure it against accidental operation.

If you are having difficulties while installing or operating of the product then Please consult the unit owner's manual for output portion.