SS 1034760 Instructions to Configure Service Viper

ISSUE:
If service part # 66-22219-000 is being used to repair a unit that is a model year 2019 or earlier, this new viper module MUST be configured using the steps seen in the attachment. For model year 2020 or later, this information should load automatically upon key ON from the RVM.
SERVICE/AFTERMARKET:

66-04166-001 IS SUPERCEDED BY 66-22219-000

THE SERVICE SOFTWARE SOLUTION INCLUDES A MENU THAT WILL ALLOW FOR THE
CLUSTER TO BE CONFIGURED ON A PER SERIAL BASES AT POWER ON.
REFERENCE
PART DRAWING FOR INSTRUCTIONS TO CONFIGURE that is attached.

RELEASE NUMBER	REV LTR	REVISION DESCRIPTION	BY	DATE	APPD
P60902-01	-	INITIAL RELEASE	G1V	04/23/20	DAG

PART NUMBER	HARDWARE	GPS	WI-FI	BLUETOOTH	DUAL MONITORS
66-22219-000	G	-	-	-	-

DELIVERY MUST CONFORM EXACTLY WITH DRAWING SPECIFICATIONS AND, WHERE REQUIRED BY Q.A., WITH APPROVED Q.A. SAMPLES. ABSOLUTELY NO CHANGES ARE PERMITTED WITHOUT PRIOR APPROVAL BY DTNA. THIS INCLUDES CHANGES TO: SOFTWARE, MATERIALS, INTERNAL COMPONENTS, MANUFACTURING PROCESSES.

1. SUPPLIER: MEDALLION INSTRUMENTATION SYSTEMS, ACCEPTABLE PART NUMBERS:
   1539-10816-01
   1539-10985-01
2. IDENTIFY COMPONENT PER 49-00051
3. COMPONENT MUST CONFORM TO 49-00085

ITEM NUMBER 66-22219-000
DESCRIPTION MODULE-ECU,LCD ICU,J1939

DAIMLER

Daimler Trucks North America

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MATERIAL APPROVAL: N/A	DATE: N/A	UNLESS OTHERWISE NOTED, DIMENSIONS AND TOLERANCESARE DEFINED ACCORDING TO ASME Y14.5M- 1994,WITH EXCEPTION PER DTNA 09ENG-WI037
DRAWN BY: R.VASLEY	DATE: 04/23/20	
CHECKED BY: A.GUTIERREZ	DATE: 04/23/20	
RESPONSIBLE ENGINEER: A.GUTIERREZ	DATE: 04/23/20	THIRD ANGLE PROJECTION; UNITS OF MEASURE: MM
APPROVED BY: D.GRATE	DATE: 04/23/20	

DESCRIPTION: MODULE,ECU,LCD ICU,J1939

SUPPLEMENTAL DESCRIPTION: 73205

ITEM/DRAWING NUMBER	REVISION LETTER	PAGE
66-22219	-	1 of 7

NOTES:
1.UNLESS OTHERWISE NOTED, SPECIFICATIONS REFERENCED IN THIS DESIGN RECORD APPLY AT THE REVISION LEVEL IN EFFECT ON THE ORIGINAL DATE OF ISSUANCE OF THE DESIGN RECORD.
2.CONFORMS TO FCCC SPEC. #26-50066 AFTER BEING PROGRAMMED WITH THE APPLICABLE SOFTWARE.

MAIN 1 CONNECTOR PIN CALLOUT	
PIN #	DESCRIPTION
1	HIGH BEAM INPUT
2	NP
3	FUEL SENDER RETURN
4	TAG AXLE DUMP INPUT
5	FUEL SENDER INPUT
6	LOW WASHER FLUID
7	PANEL BACKLIGHT INPUT
8	NP
9	NP
10	NP
11	J1939+
12	J1939-
13	NP
14	NP
15	NP
16	ENGINE BRAKE OUTPUT
17	AMP POWER CONTROL
18	NP
19	NP
20	NP

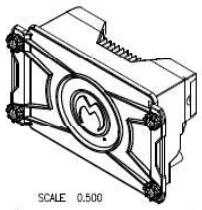
MAIN 2 CONNECTOR PIN CALLOUT	
PIN #	DESCRIPTION
1	GROUND
2	BATTERY INPUT
3	IGNITION INPUT
4	NP
5	NP
6	NP
7	HEADLAMP POWER INPUT
8	SERVICE BRAKE INPUT
9	RIGHT TURN INDICATOR INPUT
10	LEFT TURN INDICATOR INPUT
11	PARK BRAKE INPUT
12	NP
13	STEERABLE AXLE INDICATOR INPUT
14	FOG LAMP INPUT
15	PARK BRAKE FUSE INPUT
16	NP

AV CONNECTOR PIN CALLOUT	
PIN #	DESCRIPTION
1	NP
2	NP
3	NP
4	NP
5	NP
6	NP
7	NP
8	NP
9	AUDIO OUTPUT HIGH
10	AUDIO OUTPUT LOW
11	NP
12	NP
13	NP
14	NP
15	NP
16	NP

GAUGE CONNECTOR PIN CALLOUT	
PIN #	DESCRIPTION
A	LIN COMMUNICATION
B	NP
C	LIN REFERENCE VOLTAGE (GND)
D	NP

3D CONNECTOR PIN CALLOUT	
PIN #	DESCRIPTION
1	LCD POWER
2	GROUND
3	LCD POWER
4	LCD DATA+
5	LCD DATA-
6	GROUND
7	USB DATA-
8	USB DATA+

USB CONNECTOR PIN CALLOUT	
USB 1	
PIN #	DESCRIPTION
1	5V
2	DATA-
3	DATA+
4	GND
USB 2	
PIN #	DESCRIPTION
1	5V
2	DATA-
3	DATA+
4	GND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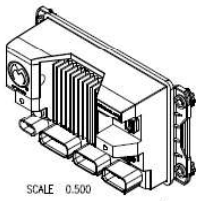
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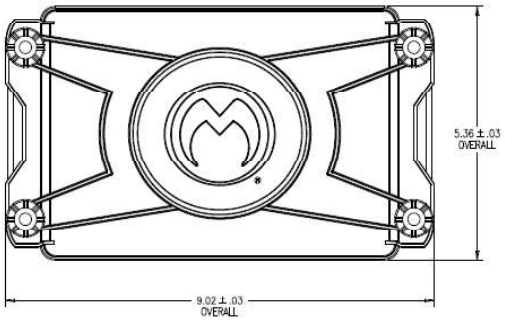

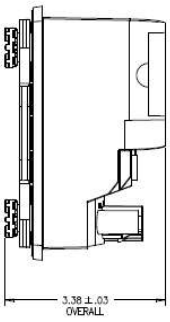

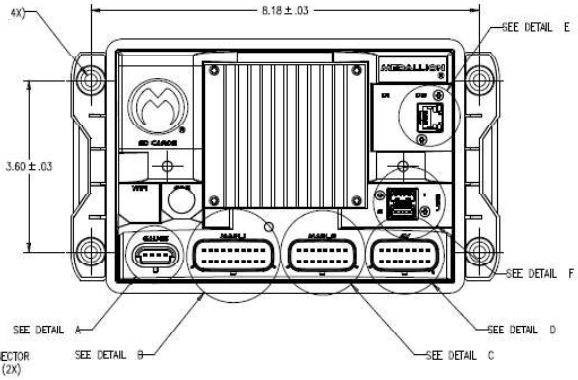

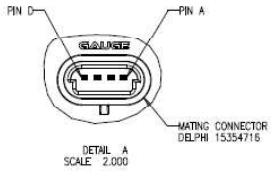

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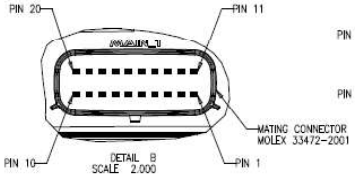

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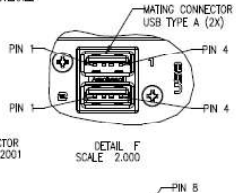

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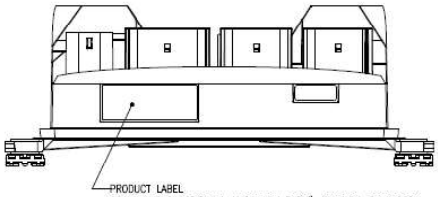

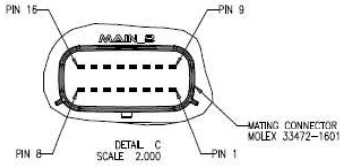

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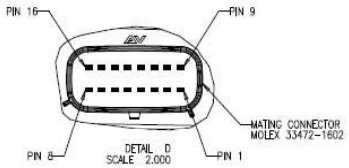
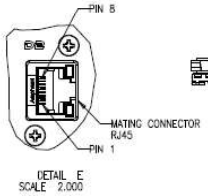


DETAIL D
SCALE 2.000



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MAIN 1 CONNECTOR PIN CALLOUT	
PIN #	DESCRIPTION
1	HIGH BEAM INPUT
2	NP
3	FUEL SENDER RETURN
4	TAG AXLE DUMP INPUT
5	FUEL SENDER INPUT
6	LOW WASHER FLUID
7	PANEL BACKLIGHT INPUT
8	NP
9	NP
10	NP
11	J1939+
12	J1939-
13	NP
14	NP
15	NP
16	ENGINE BRAKE OUTPUT
17	NP
18	NP
19	NP
20	NP

MAIN 2 CONNECTOR PIN CALLOUT	
PIN #	DESCRIPTION
1	GROUND
2	BATTERY INPUT
3	IGNITION INPUT
4	NP
5	NP
6	NP
7	HEADLAMP POWER INPUT
8	SERVICE BRAKE INPUT
9	RIGHT TURN INDICATOR INPUT
10	LEFT TURN INDICATOR INPUT
11	PARK BRAKE INPUT
12	NP
13	STEERABLE AXLE INDICATOR INPUT
14	FOG LAMP INPUT
15	PARK BRAKE FUSE INPUT
16	NP

AV CONNECTOR PIN CALLOUT	
PIN #	DESCRIPTION
1	NP
2	NP
3	NP
4	NP
5	NP
6	NP
7	NP
8	NP
9	AUDIO OUTPUT HIGH
10	AUDIO OUTPUT LOW
11	NP
12	NP
13	NP
14	NP
15	NP
16	NP

GAUGE CONNECTOR PIN CALLOUT	
PIN #	DESCRIPTION
A	LIN COMMUNICATION
B	NP
C	LIN REFERENCE VOLTAGE (GND)
D	NP

D2 CONNECTOR PIN CALLOUT	
PIN #	DESCRIPTION
1	LCD POWER
2	GROUND
3	LCD POWER
4	LCD DATA+
5	LCD DATA-
6	GROUND
7	USB DATA-
8	USB DATA+

	MAIN 1 (J2) CONNECTOR PIN CALLOUT		MAIN 2 (J1) CONNECTOR PIN CALLOUT		AV (J3) CONNECTOR PIN CALLOUT		GAUGE (J4) CONNECTOR PIN CALLOUT
VENDER PART # (MATE)	MOLEX: 33472-2001		MOLEX: 33472-1601		MOLEX: 33472-1602		DELPHI: 15354716
DTNA PART # (MATE)	23-13662-034		23-13662-032		23-13662-033		23-13144-407

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MEDALLION VIPER 2 SERVICE CONFIGURATION MENU OPTIONS

Pressing the UP, BACK and DOWN steering wheel buttons <u>while</u> turning on ignition will allow entry into the factory configuration of the LCD system. This will bring up the screen above.

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The current active option will highlight in BLUE

The first three options in the CONFIGURATION MENU are shown above. As you press the DOWN arrow the highlight will scroll down to show more options.

Using the UP and DOWN steering wheel buttons, select the FUEL TANK SIZE for this vehicle.

When the correct OPTION is selected press OK to save this selection (90 galon tank)

Selecting the FCCC HMI or the Alternate HMI

Selecting if the engine supports WAIT TO START

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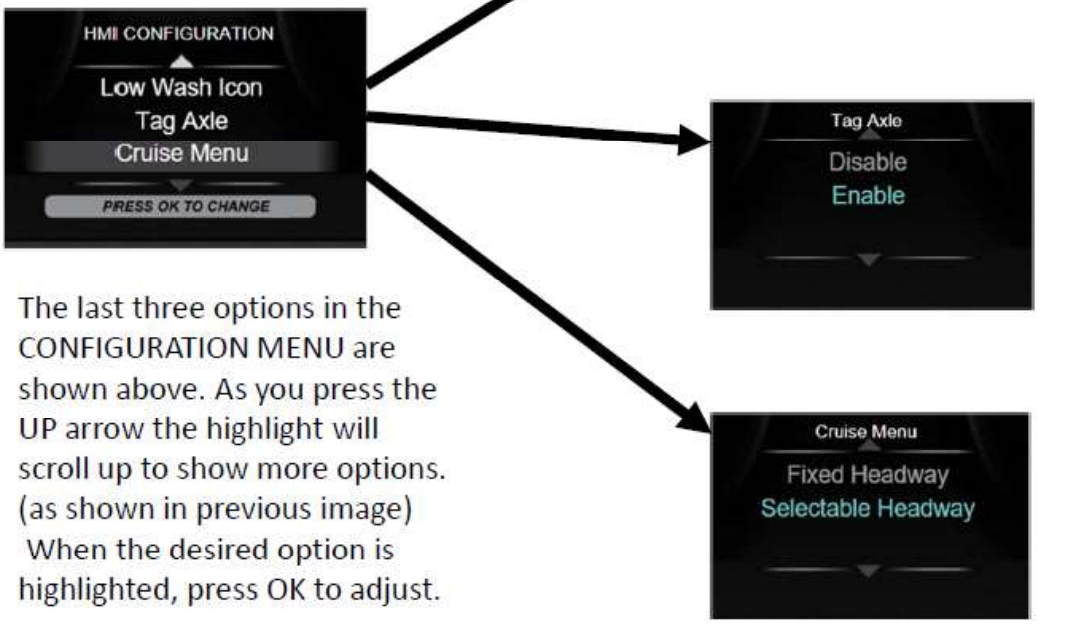

Selecting which LOW WASHER sensor is used.

Selecting if TAG AXLE is enabled.

Selecting ADAPTIVE Cruise headway is fixed or selectable (near, mid or far).

The last three options in the CONFIGURATION MENU are shown above. As you press the UP arrow the highlight will scroll up to show more options. (as shown in previous image) When the desired option is highlighted, press OK to adjust.

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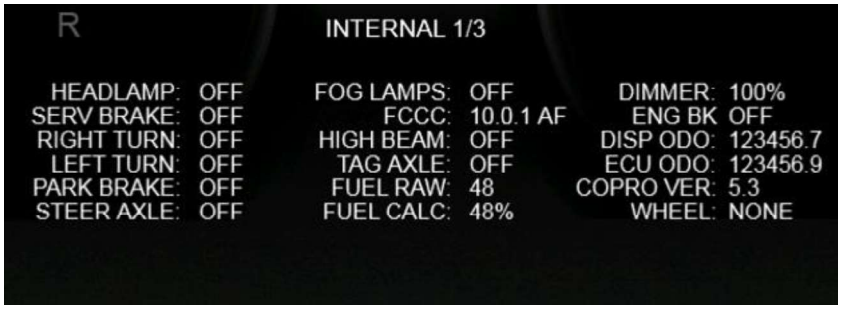
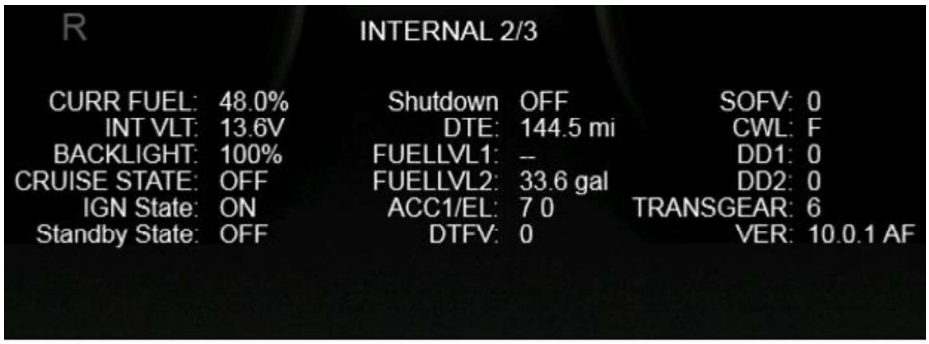
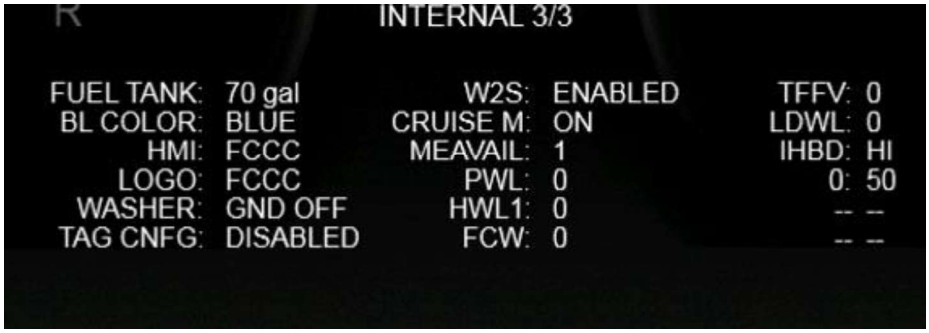


To verify the service menu inputs are correct, go to the Internal Diagnostics menu and confirm they match.





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