

SS 1033335 Actia Instruments to Ametek (AMI) Instruments

Service Solution Title: 1033335 Actia Instruments to Ametek (AMI) Instruments

Applicable Vehicles: FCCC step vans built between 2002 and 2010.

Symptoms: After-market purchasing has incurred numerous issues in obtaining service replacement parts at a reasonable price from current vendor Actia. FCCC Engineering developed the attached service parts and installation instructions from Ametek to serve as replacement service parts when a replacement instrument panel is needed.

Issue: If/When replacement service parts are no longer available, it would require to follow the attachments in order to know what replacement parts need to be ordered.

Case Study: N/A

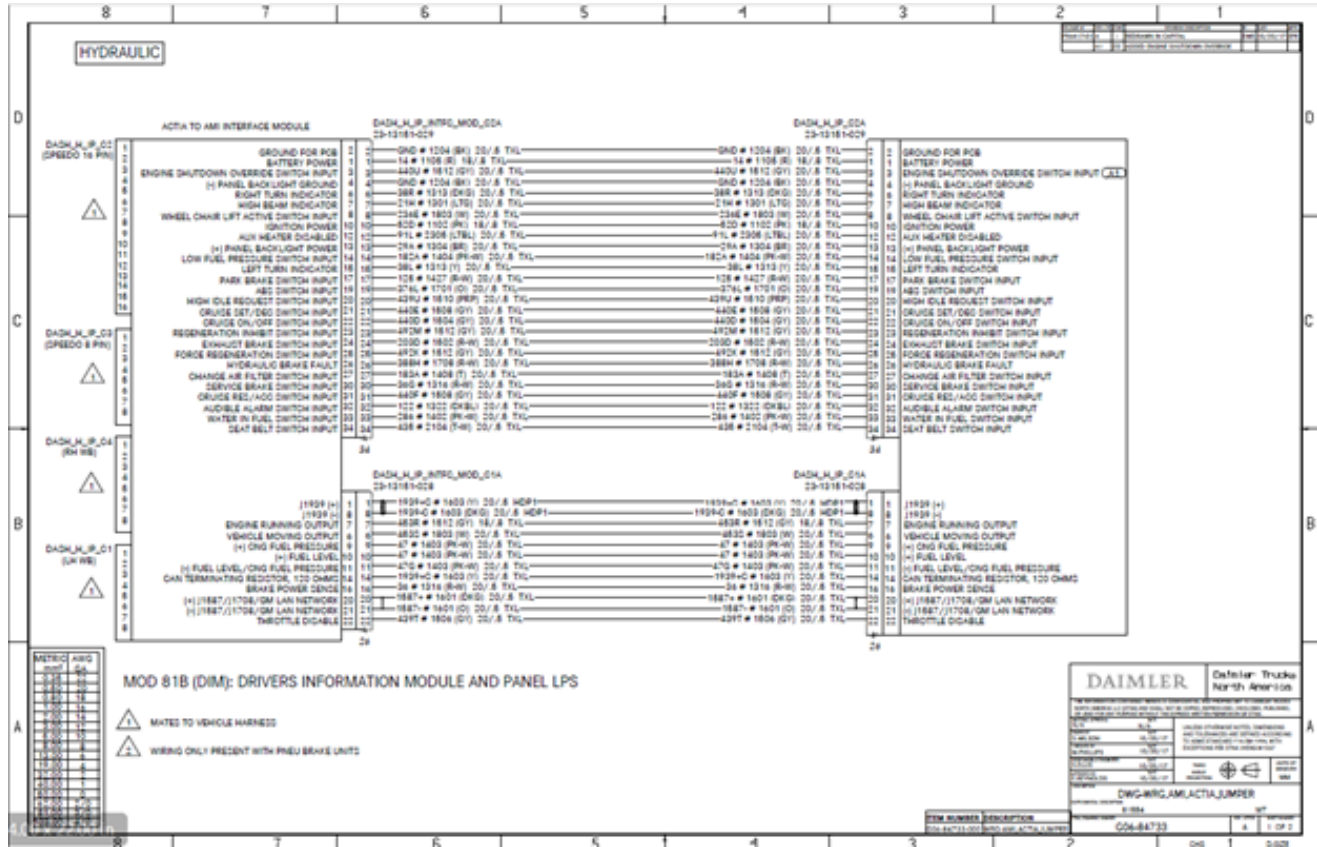
Solution: See the attachments. **D66-03190** shows you the cross-over list from your current Actial panel to the replacement Ametek panel for units built between 2002 to 2007. Then the **D06-84989** MUST be used to see ALL the other parts that will be need **IN ADDITION** to the replacement panel. This document also gives the installation instructions. The G06-84733 shows the new wiring schematics IF needed to reference. **You will also have to know if the vehicle has hydraulic or air brakes in order to know which parts list to use. IF air, you will also need to know if unit has Standard or Metric gauges in order to know which air gauges you will need.**

The **D66-03139** attachment shows the cross-over for units **built between 2007 to 2010 with Cummins ISB07 engines**. These would be units that do NOT show a complete instrument panel assembly part number in BOM 732, as only the individual gauge part numbers are shown such as **ATY 109494 or ATY 109493** for example in BOM **844**. One should also reference BOM **810** to obtain unit of measure such as **ATY 109496 for English or ATY 109495 for Metric** for example, in order to determine what the replacement **W22** part number will be.

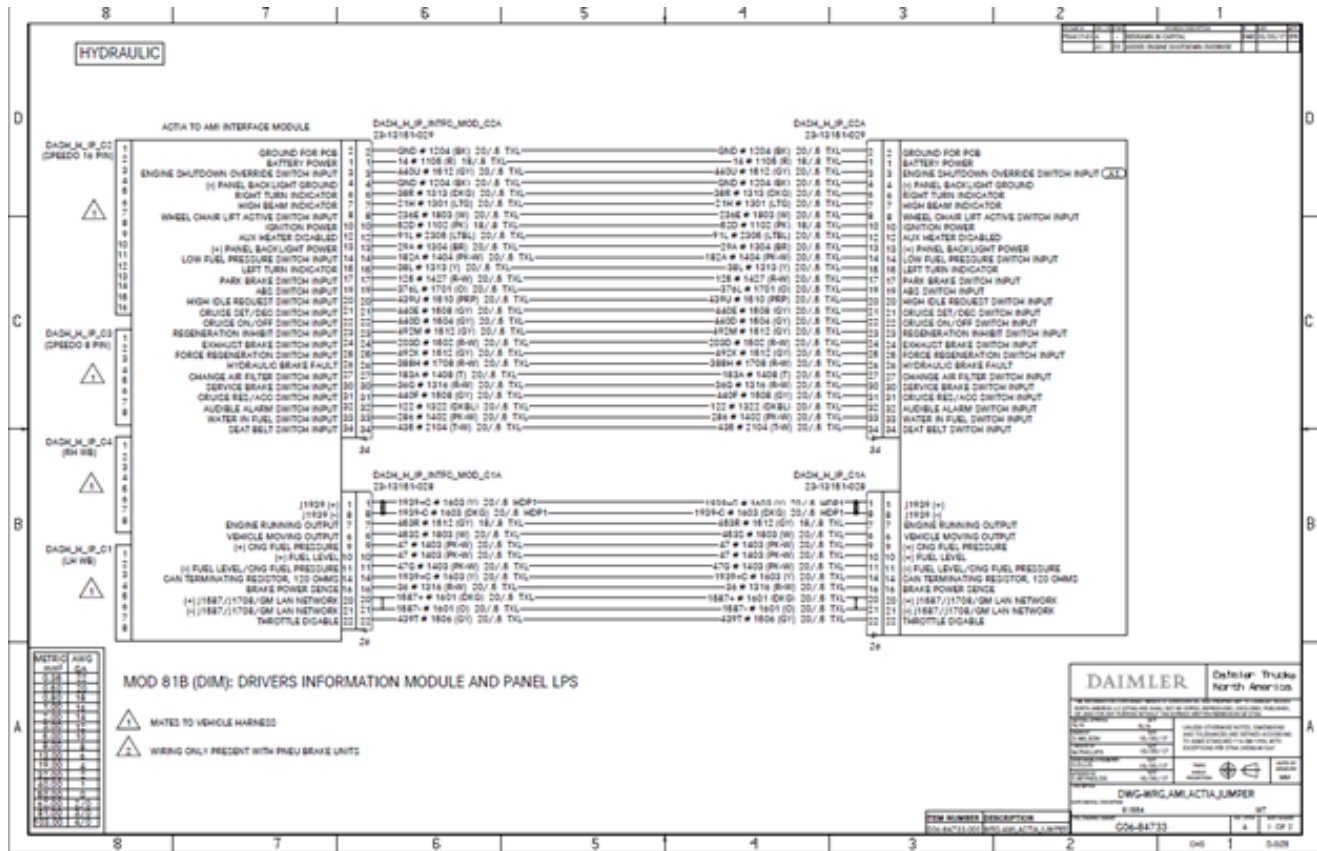
The **D66-03368** attachment MUST be referenced to show the programming on the new Ametek that will be needed whenever the replacement panels are the **A22-69693 or A22-69698** families of panels are used as replacements as seen on the D66-03190 cross-over list.

This programming will **NOT** be needed when the replacement Ametek panels are the **W22** families of panels being used as replacements for units built between 2007 to 2010 as seen on the D66-03139 cross-over list.

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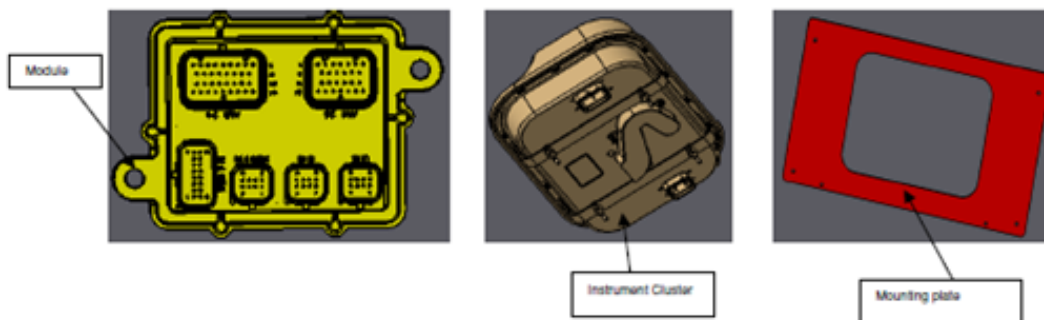
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D06-84898-000 INSTL-PANEL INSTRUMENT	DAIMLER		Daimler Trucks North America	
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	MATERIAL APPROVAL N/A	DATE N/A	UNLESS OTHERWISE NOTED, DIMENSIONS AND TOLERANCES ARE DEFINED ACCORDING TO ASME STANDARD Y14.5M-1994, WITH EXCEPTION PER DTNA coolingWiper	
	DRAWN BY M. DAMON	DATE 05/16/11		
	CHECKED BY D. GRATE	DATE 05/16/11	THIRD ANGLE PROJECTION	
	RESPONSIBLE ENGINEER B. REED	DATE 05/16/11		
	APPROVED BY E. REYNOLDS	DATE 05/16/11	 UNIT OF MEASURE MM	
	DESCRIPTION INSTL-PANEL INSTRUMENT			
	SUPPLEMENTAL DESCRIPTION 73201			
	DRAWING NUMBER D06-84898		REVISION TITLE -	PAGE 1 of 6

Service Work Instructions

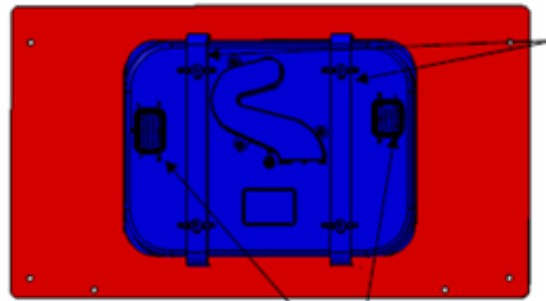
For Vehicles WITHOUT air brakes, use parts and follow instructions below:

Item	Name	Part Number	Quantity
1	Module	06-84694-000	1
2	Instrument Cluster	Refer to service notes	1
3	Jumper Harness	A06-84704-000	1
4	Mounting Plate	06-84700-000	1
5	Tie band	23-09796-629	2



1. Remove existing IP from dash and save existing hardware for later use.
2. Install and secure module (1) to existing harness under dash using tie bands (5).
3. Connect existing dash IP harnesses to the module respectively and make any adjustments as needed.
 - The speedometer 16-pin connector mates to the module 16-pin connector.
 - The speedometer 8-pin connector mates to the module 8-pin connector labeled speedo 8-pin.
 - The 8-pin RH warning bank connector mates to the module 8-pin connector labeled RH WB.
 - The 8-pin LH warning bank connector mates to the module 8-pin connector labeled LH WB.
4. Secure the new instrument cluster (2) to the mounting plate (4) using hardware provided with instrument cluster.
5. Connect the jumper harness (3) to the module (1) and the new instrument cluster (2).
6. Secure the instrument cluster (2) and panel (4) to the vehicle dash using hardware removed from step 1. Dash modifications may be required.

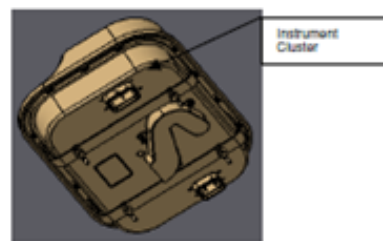
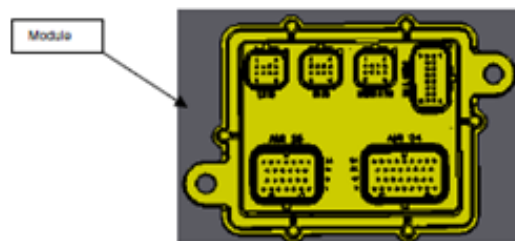
Hardware provided with Instrument Cluster for mounting

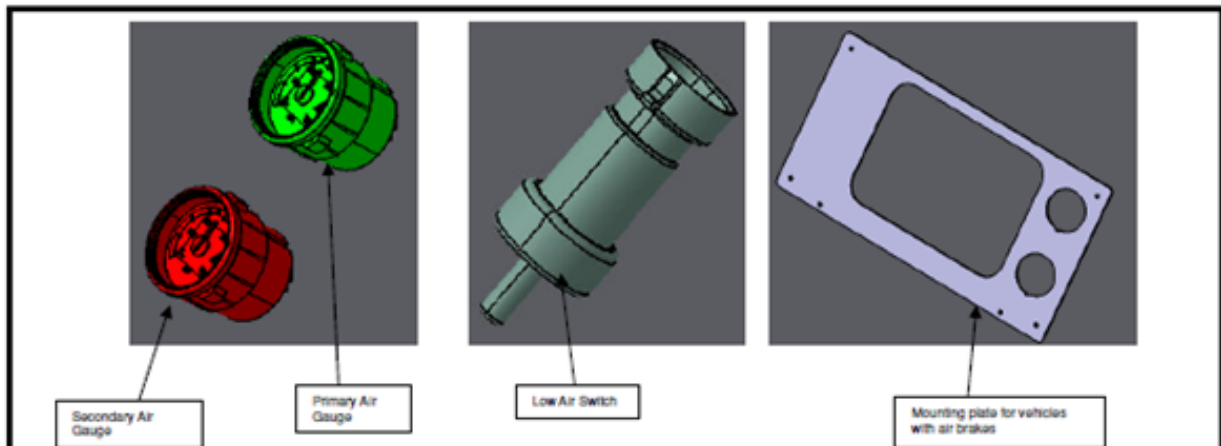


Connect pins to module via jumper harness provided

For Vehicles WITH air brakes, use parts and follow instructions below:

Item	Name	Part Number	Quantity
1	Module	06-84694-000	1
2	Instrument Cluster	Refer to service notes	1
3	Jumper Harness	A06-84704-001	1
4	1/4 Inch Connector	SMCKV2HO7 34S	2
5	5/32 Inch Connector	SMCKV2H03 34S	2
6	Primary Air Gauge	A22-63139-400 (US)	1
	Primary Air Gauge	A22-63139-410 (Metric)	1
7	Secondary Air Gauge	A22-63139-401(US)	1
	Secondary Air Gauge	A22-63139-411 (Metric)	1
8	Tee-Pipe	23-09311-001	2
9	Low Air Switch	FSC1749 9192	2
10	Mounting Plate	06-84700-001	1
11	Tie Band	23-09796-629	2
12	Gauge Jumper	A06-41592-007	1
14	5/32 Air Line (Red)	48-00100-512	1.5 FT
15	5/32 Air Line (Green)	48-00100-515	1.5 FT



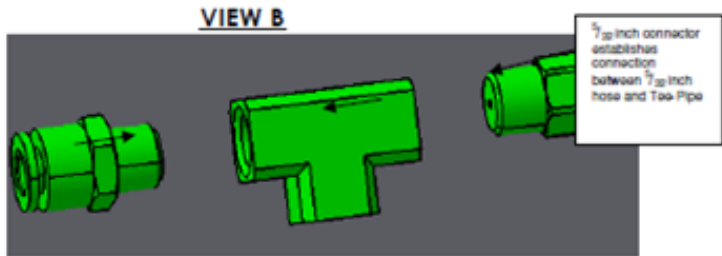


1. Remove existing IP from dash and save existing hardware for later use.
2. Connect the 1/4 inch connector (4) and the 5/32 inch connector (5) to the tee-pipe (8). Connectors to be 1 1/2 to 2 turns past finger tight. **(VIEW B)**
3. Connect the low air switch (9) to the bottom end of the tee-pipe (8). Twist 1 1/2 to 2 turns past finger tight. **(VIEW C)**
4. Connect the 1/4 inch primary air line from vehicle to one of the 1/4 inch connectors (4). **(VIEW C)**
5. Connect the 1/4 inch secondary air line from vehicle to the other 1/4 inch connector (4). **(VIEW D)**
6. Install and secure module (1) to existing harness under dash using tie bands (11).
7. Connect existing dash IP harnesses to the module respectively and make any adjustments as needed.
 - The speedometer 16-pin connector mates to the module 16-pin connector.
 - The speedometer 8-pin connector mates to the module 8-pin connector labeled speedometer 8-pin.
 - The 8-pin RH warning bank connector mates to the module 8-pin connector labeled RH WB.
 - The 8-pin LH warning bank connector mates to the module 8-pin connector labeled LH WB.
8. Secure primary (6) and secondary (7) air gauges to mounting plate (10). **(VIEW E)**
9. Connect primary and secondary air gauges together via gauge harness jumper (12).
10. Secure the new instrument cluster to the mounting plate (10) using hardware provided with instrument cluster. **(VIEW E)**
11. Connect the 5/32 inch primary air line, green (15) from the connector (5) to the primary air gauge (6). **(VIEW C)**
12. Connect the 5/32 inch secondary air line, red (14) from the connector (5) to the secondary air gauge (7). **(VIEW D)**
13. Connect the jumper harness (3) to the module, the new instrument cluster (2), the primary air gauge (6), and low air switches (9).

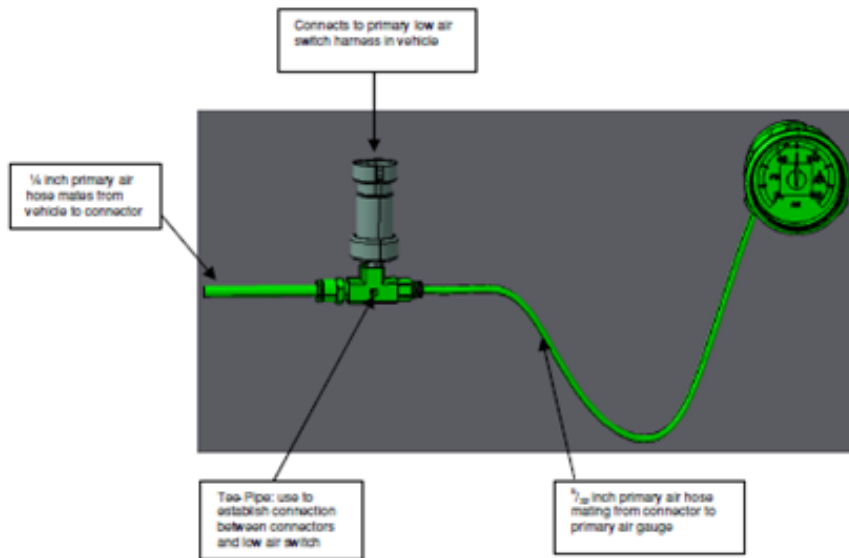
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14. Secure the instrument cluster (2) and panel mount (10) to the vehicle dash using hardware removed from step 1. Dash modifications may be required.

1/4 inch connector establishes connection between 1/4 inch hose and Tee-Pipe



VIEW C



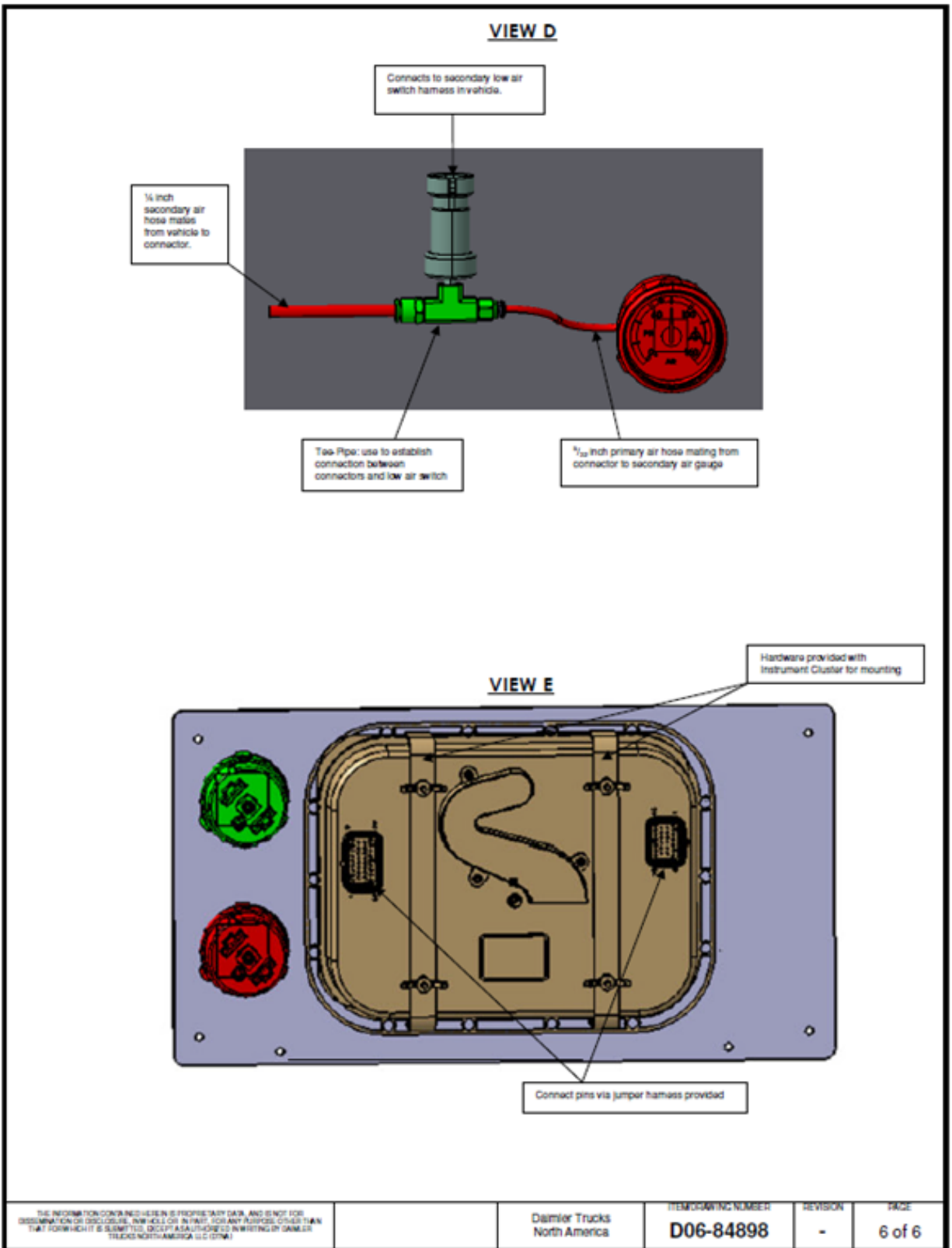
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D66-03139-002 INST-ACTIA RPLCMNT LPG,XOVER		D66-03139-001 INST-ACTIA RPLCMNT CHG,XOVER		D66-03139-000 INST-ACTIA RPLCMNT DIESEL,XOVER		DAIMLER		Daimler Trucks North America	
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DRAWN BY Q.VAN HEESDEN		DATE 11/17/14							
CHECKED BY N.LOVILLACE		DATE 11/17/14							
RESPONSIBLE ENGINEER S.ELLIS		DATE 11/17/14							
APPROVED BY E.REYNOLDS		DATE 11/17/14		INST-ACTIA RPLCMNT,PRE07,XOVER					
SUPPLEMENTAL DESCRIPTION 720A1						ITEM/DRAWING NUMBER D66-03190			
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-000 Diesel Crossover Chart:

Old IP Part #	New IP Part #	Engine Type
A22-58212-X00	A22-69698-000	Diesel
A22-58212-X01	A22-69698-001	Diesel
A22-58212-X02	A22-69698-000	Diesel
A22-58212-X03	A22-69698-001	Diesel
A22-58212-X04	A22-69698-002	Diesel
A22-58213-X00	A22-69693-000	Diesel
A22-58213-X01	A22-69693-001	Diesel
A22-58213-X02	A22-69693-000	Diesel
A22-58213-X03	A22-69693-001	Diesel
A22-58213-X04	A22-69693-000	Diesel
A22-58213-X05	A22-69693-001	Diesel
A22-58213-X06	A22-69693-000	Diesel
A22-58213-X07	A22-69693-001	Diesel

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-001 CNG Crossover Chart:

Old IP Part #	New IP Part #	Engine Type
A22-58213-X08	A22-69693-002	CNG
A22-58213-X10	A22-69693-002	CNG
A22-58213-X12	A22-69693-002	CNG
A22-58213-X14	A22-69693-002	CNG

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-002 LPG Crossover Chart:

Old IP Part #	New IP Part #	Engine Type
A22-58213-X16	A22-69693-003	LPG
A22-58213-X18	A22-69693-003	LPG
A22-58213-X20	A22-69693-003	LPG

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D66-03139-000 INST-ACTIA RPLCMNT,ISB07,XOVER	DAIMLER		Daimler Trucks North America	
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	NA	NA		
	DESIGNED BY	DATE		
	Q.VAN HEERDEN	11/05/14		
	DRAWN BY	DATE		
	N.LOVWELACE	11/05/14		
	RESPONSIBLE ENGINEER	DATE	THIRD ANGLE PROJECTION	UNIT OF MEASURE MM
	S.ELLIS	11/05/14		
APPROVED BY	DATE			
E.REYNOLDS	11/05/14			
INST-ACTIA RPLCMNT,ISB07,XOVER				
SUPPLEMENTAL DESCRIPTION 732A1				
DRAWING NUMBER D66-03139		REVISION LETTER -	PAGE 1 of 2	

ISB07 Crossover Chart:

<u>Mod 844: Panel Configuration</u>	<u>Mod 840: Brake Type</u>	<u>Mod 810: Unit of Measure</u>	<u>IP part #</u>	<u>Jumper Part #</u>	<u>Module Part #</u>	<u>Panel Part #</u>
4 Gauge (ATY109494 OR 22-58310-000)	Hydraulic (N/A)	Metric (ATY109495 OR 22-58307-001)	W22-00022-008	A06-84704-000	06-84694-000	06-84700-000
4 Gauge (ATY109494 OR 22-58310-000)	Hydraulic (N/A)	English (ATY109496 OR 22-58307-000)	W22-00022-013	A06-84704-000	06-84694-000	06-84700-000
6 Gauge (ATY109493 OR 22-58309-000)	Hydraulic (N/A)	Metric (ATY109495 OR 22-58307-001)	W22-00022-023	A06-84704-000	06-84694-000	06-84700-000
6 Gauge (ATY109493 OR 22-58309-000)	Hydraulic (N/A)	English (ATY109496 OR 22-58307-000)	W22-00022-019	A06-84704-000	06-84694-000	06-84700-000
6 Gauge (ATY109493 OR 22-58309-000)	Air (ATY109501 OR 22-58310-002)	Metric (ATY109495 OR 22-58307-001)	W22-00022-021	A06-84704-001	06-84694-000	06-84700-001
6 Gauge (ATY109493 OR 22-58309-000)	Air (ATY109502 OR 22-58310-001)	English (ATY109496 OR 22-58307-000)	W22-00022-020	A06-84704-001	06-84694-000	06-84700-001

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	DRAWN BY:	Q.VAN HEERDEN			
	CHECKED BY:	N.LOVELACE			
	RESPONSIBLE ENGINEER:	S.ELLS			
	DATE:	12/15/14	THIRD ANGLE PROJECTION		UNIT OF MEASURE MM
	DATE:	12/15/14	DESCRIPTION INSTR-ACTIA RPLCMNT CLUST		
	DATE:	12/15/14	SUPPLEMENTAL DESCRIPTION 732A1		
	TEMPERATURE NUMBER:	D66-03368	REVISION LETTER:	-	PAGE 1 of 3

Purpose

This document will give brief instructions on the configuration of the Ametek retrofit clusters that are to replace the Actia instrument panels that are in use in ISB02's, MB904's and CNG's.

Configuration menu

All retrofit clusters need to be configured before use. The configuration menu is entered by pressing and holding the right ⇨ and down ↓ arrows on the instrument panel while turning the ignition on. The menu is shown in Figure 1.

The down arrow can be used in order to scroll through the options on the configuration menu and the right arrow can be used to select the option that is highlighted.

Configuration Menu
1- Transmission Type
2- Brake Type
3- ABS Communication Type

Figure 1: Configuration menu

The configuration menu consists of 3 options. Upon entering the menu the transmission type, brake type and ABS communication type will be able to be set.

Transmission Type

Selecting option 1 from the configuration menu displays the transmission type setup screen shown in Figure 2. The user will have a choice between the 3 different transmission types: Automatic transmissions, Manual transmissions, or Hybrid Electric transmissions.

Transmission Type
1- Automatic
2- Manual
3- HEV

Figure 2: Transmission type setup screen

The automatic transmission type will be used as default at all times. The user should use the down and right arrow to select the appropriate transmission type that is used on the vehicle.

Brake System Type

Selecting option 2 from the configuration menu displays the brake type setup screen shown in Figure 3. This menu allows a choice between the 2 different types of braking systems. The user will have the option of choosing between hydraulic and pneumatic brakes.

Brake Type
1- Hydraulic
2- Pneumatic

Figure 3: Brake type setup screen

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The default selection for brake system type will be hydraulic brakes. The user should use the arrows to change the selection to pneumatic if this is what is used on the vehicle.

ABS Communication Type

Selecting option 3 from the configuration menu displays the ABS communication type setup screen that allows a choice between the two different types of ABS communication types. Users will have the option of choosing between J1939 and Hardwire communications.

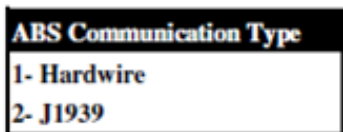


Figure 4: ABS communication type setup screen

Vehicles with J1939 communication will transfer and receive messages/directions through the J1939 CANBUS for ABS failure while vehicles with hardwires receive ABS failure information from dedicated hardwires.

The default selection for ABS Communication Type is Hardwire. This should be changed to J1939 if necessary.

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