## APTB 13/16 R2 SUBJECT: Alliant Power Isuzu<sup>®</sup> Common Rail Injector Trim Code Programming for Isuzu and GM<sup>®</sup> Applications March 01, 2018

The following Alliant Power injectors require trim code programming:

Engine Family	4HK1	6HK1
	AP53903	AP53904
	AP53907	AP53905
	AP53808	AP53906
	AP53809	AP53907

Whenever any of the injectors listed above are installed in an engine, the trim code on the injector must be programmed into the ECM. The procedure below shows how this is performed using the Isuzu Diagnostic Service System (IDSS) diagnostic tool.

Visit the following website for more information on the IDSS diagnostic tool: <u>https://www.isuzutruckservice.com/store.php?category=6</u>

With the diagnostic tool connected to the vehicle, select the transmission type for auto detection.



Select "Controller Programming".



Select "Engine Control Module (ECM) Programming".



Select "Injector Flow Rates".

Isuzu Diagnostic Service System (IDSS)
Crr Prog GMC 2008 C7500 7.8L MANUAL GVWR - 26,001 - 33,000 lb
🖴 Engine Control Module (ECM) Programming
Software and Calibrations
Injector Flow Rates
🗉 Injector Trim
Speedometer Calibration
Horsepower Change
Vehicle Options
Instrument Panel Control (IPC)
SDGM (If Equipped)

Select the method to modify the trim codes, "Valve Cover View" or "Injector View".

	Cu	irre	nt	Inje	ect	or	Flo	w I	Rat	tes						
	Cylinder1	66	31	2B	0D	F7	11	F7	E9	15	00	E0	7C	00	00	C
	Cylinder2	66	5D	67	1F	0E	17	14	17	26	1B	1D	79	00	00	C
	Cylinder3	66	51	7D	12	0A	06	0F	7D	1F	14	75	58	00	00	C
	Cylinder4	66	31	1F	06	F7	06	01	24	00	00	14	8E	00	00	C
	Cylinder5	66	1F	00	FA	FB	F8	F9	47	00	FB	4A	8F	00	00	C
	Cylinder6	66	00	F1	E8	E7	E3	EC	37	EF	EC	1D	BE	00	00	C
Select method o	f injector flow dify by injector dify by valve co	view view	e mo	odific	ero a	n:	s	ieleo	now	/n or hich	inje	vaiv ecto	rs ye	over ou h	ave	replaced:
Choose the above options and press 'Next' to modify injector flow rates.																

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Select "Reprogram Injector Flow Rates" once the new code(s) have been entered.

## **Valve Cover View**



**Injector View** 

		俗	163	2P		21	14	12	th:	C.W	5	
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		Š.	72	εR			EK.	15	34			
		142	683	<b>3</b> :D			DrX.	104	50	ER.	22	
							The state					
#1	66	31	2B	0D	F7	11	F7	E9	15	00	EO	7C
#1 #2	<mark>66</mark> 66	31 5D	2B 67	0D 1F	F7 0E	11 17	F7 14	E9 17	15 26	00 1B	E0 1D	7C 79
#1 #2 #3	66 66 66	31 5D 51	2B 67 7D	0D 1F 12	F7 0E 0A	11 17 06	F7 14 0F	E9 17 7D	15 26 1F	00 1B 14	E0 1D 75	7C 79 58
#1 #2 #3 #4	66 66 66 66	31 5D 51 31	2B 67 7D 1F	0D 1F 12 06	F7 0E 0A F7	11 17 06 06	F7 14 0F 01	E9 17 7D 24	15 26 1F 00	00 1B 14 00	E0 1D 75 14	7C 79 58 8E
#1 #2 #3 #4 #5	66 66 66 66 66	31 5D 51 31 1F	2B 67 7D 1F 00	0D 1F 12 06 FA	F7 0E 0A F7 FB	11 17 06 06 F8	F7 14 0F 01 F9	E9 17 7D 24 47	15 26 1F 00 00	00 1B 14 00 FB	E0 1D 75 14 4A	7C 79 58 8E 8F
#1 #2 #3 #4 #5 #6	66 66 66 66 66 66	31 5D 51 31 1F 00	2B 67 7D 1F 00 F1	0D 1F 12 06 FA E8	F7 0E 0A F7 FB E7	11 17 06 06 F8 E3	F7 14 0F 01 F9 EC	E9 17 7D 24 47 37	15 26 1F 00 00 EF	00 1B 14 00 FB EC	E0 1D 75 14 4A 1D	7C 79 58 8E 8F BE
#1 #2 #3 #4 #5 #6	66 66 66 66 66 66	31 5D 51 31 1F 00	2B 67 7D 1F 00 F1	0D 1F 12 06 FA E8	F7 0E 0A F7 FB E7	11 17 06 66 F8 E3	F7 14 0F 01 F9 EC	E9 17 7D 24 47 37	15 26 1F 00 00 EF	00 1B 14 00 FB EC	E0 1D 75 14 4A 1D	7C 79 58 8E 8F BE

Follow the key cycle prompts to complete injector trim code programming. The following message will be displayed if the programming was completed successfully.

Programming Comp	lete!
	Read Programmed Injector Flow Rates

ALLIANT

R1 – Updated part number AP53903 R2 – Updated part numbers AP53904 to AP53907