

Program Sound Volume

In the Program Mode you may individually adjust the volume of the five sounds (Buttons 1 through 5). To adjust the volume, press Button 6 and then select and press one of the sounds (Buttons 1 through 5). Each sound has four volume level settings. For example, to adjust the volume of the bell, press Button 6 (you will hear "Program"), wait 2 seconds and then press Button 1. At this point, you will hear a sample of the bell sound in order to judge the volume. Repeat pressing Button 6 and, two seconds later, Button 1 to hear the next volume level, stopping when the desired volume is heard.

Restoring Factory Default Settings

In the Program Mode, press Button 5 five times. You will hear "Program" five times, followed by the air release sound.

Programming - DCC Mode

Your GENESIS F-Unit will operate on any NMRA compatible Digital Command Control (DCC) system. The dual-function decoder has the following features:

- Synchronized diesel engine sound with random sounds
- 1.5 amp capacity
- Programmable for either 2 digit, (1-127) or 4 digit, (1-9,999) addresses
- Programmable start voltage
- Programmable acceleration rate
- Programmable deceleration rate
- Programmable top voltage
- Programmable 14-28/128 speed steps
- Directional lighting (FO)
- Special lighting effects: Mars Light, Gyrallight, Beacon or Strobe Light
- 19 accessory sound functions, (F1-F19)
- Advanced consisting (CV19)
- OPS mode programming
- Compatible with NMRA DCC standard
- Complies with part 15 of FCC regulations
- Programmable individual sound volume

Operation DCC SOUNDS CHART

FUNCTION	IDLE/MOVING
Double click F0	Sounds ON/OFF
F1	Bell ON/OFF
F2	Horn
F3	Air release
F4	Coupling
F5	Brake release/Squeal (idle/moving)
F6	Dynamic Brake
F7	Coupler Arm
F8	Coupler Fire
F9	Engine cooling fan
F10	Rail click clack
F11	Air compressor
F12	Sound On/Off
F13	Door close
F14	Coupling crash
F15	Air pump
F16	Exhaust
F17	Short Air release
F18	Safety valve
F19	Horn type #1 doppler effect

Note: The Bell (F1), Dynamic Brake (F6) and Rail Clickety-Clack (F10) cannot play simultaneously – the bell will interrupt the other two sounds.

Programming for DCC Operation – Digital Mode

This decoder supports all program methods including register mode, paged mode, CV programming, direct mode and programming on the main (OPS mode programming). Program the locomotive the same way you would program any other NMRA compatible decoder with your DCC system.

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CV	REGISTER	DESCRIPTION	RANGE	FACTORY VALUE
CV1	R1	Short address	1-127	3
CV2	R2	Start voltage	0-32	0
CV3	R3	Acceleration	0-32	0
CV4	R4	Deceleration	0-32	0
CV5	-	Top voltage	0-32	32
CV6	-	Middle voltage	0-1	1
	R6	Page number		
CV29	R5	Basic configuration	-	2
CV7	R7	Manufacturer Version #	-	32
CV8	R8	Manufacturer I.D.	-	143
CV17	-	Long address upper byte	192-231	192
CV18	-	Long address lower byte	0-255	3
CV19	-	Advance consist address	1-127	0
CV21		Advance consist accessory function assignment works only when CV19 is non zero		0
CV50		Horn type	0-11 (11 is off)	4
CV51		Horn volume	0-3	3
CV52	-	Bell type	0-7 (7 is off)	3
CV53		Bell volume	0-3	3
CV54		Bell ring rate	0-50	3
CV55	-	Diesel volume	0-3	3
CV56	R1	Brake squeal volume	0-3	3
CV57		Dynamic brake volume	0-3	3
CV58		Air release volume	0-3	3
CV59		Air pump volume	0-3	3
CV60		Safety valve	0-3	3
CV61		Engine cooling fan volume	0-3	3
CV62		Coupling volume	0-3	3
CV63		Noise volume	0-3	3
CV64		Rail clickety-clack	0-3	3
CV105	-	User identifier number	0-255	0
CV106	-	User identifier number	0-255	0
CV112		Exhaust volume	0-3	
CV113		Coupling fire volume	0-3	3
CV114		Brake release volume	0-3	3
CV115		Auto brake squeal enable/disable	0-1	1 (enable)
CV116		Coupling sound type	0-2 (2 is off)	1
CV117		Light enable/disable	0-1	1 (enable)
CV124		Back to factory default setting Program CV125 to 1 will reset all CV to factory default		

Note: Due to the dual sound decoder nature, it does not support CV read back feature. The Dual-Function decoder is manufactured by Model Rectifier Corporation for Athearn Trains.