

HO Scale Non-Sound Decoder Information: Intermountain Railway Company

All InterMountain HO locomotives shipped from InterMountain after January 2011 are DCC equipped from the factory. The DCC decoder for both sound and non-sound versions operate on DC or DCC out of the box. **Note that when operated in DC mode, these decoders require a minimum of 8 volts before the locomotive begins to move.** A standard DC wiring harness is available from InterMountain to allow any InterMountain HO locomotive to operate on DC with other manufacturer's locomotives. The harness bypasses the motor outputs of the decoder and connects the locomotive motor directly to the track power. The lighting remains controlled by the decoder and functions properly using DC.

Locomotives shipped from InterMountain before January 2011 (F3, F7, FP7, FP9, U18B, and AC-12), include an NMRA 8-pin socket, which allows for the quick and simple installation of a DCC decoder. Any NMRA 8-pin plug decoder that has wires between the decoder and 8-pin plug works quite well. **Please note that direct plug style decoders, with the 8-pins directly mounted to the decoder, do NOT physically fit.**

HO Scale Sound Decoder Information:

If you would like your InterMountain locomotives to be sound equipped, we highly recommend that you purchase our factory sound equipped locomotives. These locomotives operate on DC and DCC out of the box utilizing the very realistic SoundTraxx sound system. SoundTraxx manuals and information for OEM decoders in InterMountain Locomotives can be found here:

<http://www.soundtraxx.com/factory/OEM%20pages/Intermountain/Intermountain.php>

If you wish to purchase InterMountain non-sound, DCC only, locomotives and add your own aftermarket sound decoder, there are various sound decoders available. **All of these options require soldering.** See the table below for various options. The information in the table below should be used as a general guideline. In some cases locomotive modification may be required for some sound decoders and/or the speaker to physically fit.

Retail Customers Note: Direct plug-in (no soldering required) SoundTraxx sound decoders for InterMountain locomotives can be purchased from InterMountain. Call for pricing and availability information.

	SoundTraxx (aftermarket)	QSI	ESU LokSound Select
FTA/B, F3A/B, F7A/B, F9B, FP7, FP9	EMD 567 828050 TSU-GN1000 828040 TSU-AT1000	Titan-A or Titan-U* EMD Master File #400 *Titan-U may have space limitations	EMD 567 #73406 – 6 function #73606 – 4 function #73806 – Micro
U18B	GE FDL-16 828046 TSU-AT1000	Titan-A or Titan-U* GE Master File #600 *Titan-U may have space limitations	GE 7FDL #73404 – 6 function #73604 – 4 function #73804 – Micro
SD40-2 SD40-2W	EMD 645 Turbocharged 828051 TSU-GN1000 828041 TSU-AT1000	Titan-A or Titan-U* EMD Master File #400 *Titan-U may have space limitations	EMD 645 with Turbo #73408 – 6 function #73608 – 4 function #73808 – Micro
ES44AC ES44DC	GE GEVO-12 827116 TSU-1000* *May have space limitations	Titan-A or Titan-U* GE Master File #600 *Titan-U may have space limitations	GE FDL-12 #73403 – 6 function #73603 – 4 function #73803 – Micro
	http://www.soundtraxx.com	http://www.qsisolutions.com	http://www.esu.eu/en

These decoders are available (or can be ordered) from hobby dealers that stock DCC products.

Speaker Information:

HO F units use a 1.10" diameter speaker.

HO U18B uses a 1.38" L x .640" W x .277" H (approximate size) rectangular speaker.

HO SD40-2 and SD40-2W use a 1.38" L x .640" W x .277" H (approximate size) rectangular speaker.

HO ES44AC and ES44DC use a 1.10" round speaker.

Alternate speakers may be available from RailMaster Hobbies. <http://www.railmasterhobbies.com>