



Using DCC to Read QSI Model Number and Build Date Information

Determining the correct QSI Solutions upgrade part number

There are many different models and levels of software in the QSI sound modules. To help define which model and software version you have, here is a procedure that will identify the chip in your locomotive. With this information you can determine the correct upgrade part number to order. This document uses DCC. A different procedure is used with DC. If you have trouble reading this information off the programming track, try using the PowerPax from Tony's Train Exchange. You can also refer to the DC version and use a dc power pack.

This procedure will not work for the first Hudson locomotives.

Using the DCC programming track to obtain the Build and Model QSI information

This procedure uses the program track to read back the needed information.

1. Put your locomotive on the program track and set the DCC system up to program track mode.
2. Select CV 49 and write a value of 254.
3. Select CV50 and write a value of 4
4. Select CV 56 and write down the number read back, then press enter
5. Select CV50 and write a value of 5
6. Read back CV56 and write down the number read back, then press enter.
7. Multiply the number from step 4 by 256 and add it to the value from step 6.
8. The results is the QSI model number. Write it into the place below .
9. Select CV50 and write a value of 8
10. Read back CV56 and write down the number. Write down this is the firmware build number. Then press enter.
11. Select CV50 and write a value of 10
12. Read back CV56 and write down the build date MONTH (1...12) below. Press enter
13. Select CV50 and write a value of 11
14. Read back CV56 and write down the build date DAY (1...31) below. Press enter
15. Select CV50 and write a value of 12
16. Read back the CV56 and write down the YEAR (02= 2002) below. Press enter.

The Firmware Version Number can be retrieved from CV7, Manufacturer's Version Number

Write the numbers below from the verbal response.

Your Model Number

Firmware Number

Build Date

_____ / _____ / 20 _____
 Month Day Year

Refer to the charts on the following pages to determine the engine type, version and build date. Then use the chart to determine the **QSI Solutions** part number for the replacement upgrade part.

QSI Solutions upgrade part number _____

<u>Sample</u>		
Your Model Number	Build Number	Build Date
<u>102</u>	<u>07</u>	<u>11/04/2004</u>
This would be an "ho102" made by BLI with a build date of 04Nov2004 . Note that the readout is month/day/year and the list is day/month/year. The engine would be an SD40 with the QSI chip part number ho102f07 . The build number is the last two digits of the QSI part number		

Quantum 1 HO Engines

As of 13 Feb 06

QSI Model Numbering System

Model > ho1XX = Diesel < > ho2XX= Electric < > ho3XX = Steam < > ho4XX = Articulated Steam,
> ho5XX = Gas Turbine < > ho8XX = Cattle Car<

Model #	Name	Mfg.	Production Releases	QSI Solutions Part #
	Steam Engines			
ho100	E7	BLI	ho100d00 (4-Aug-03) ho100e00 (7-Oct-03) ho100301 (11-Mar-04)	
ho101	SW7/NW2	BLI	ho101f12 (21-Dec-04) ho101f17 (4-Feb-05) ho101f24 (17-May-05)	
ho102	SD40	BLI	ho102f07 (4-Nov-04) ho102f18 (18-Feb-05) ho102f30 (20-Sep-05)	
ho103	DASH 8-40CW, C	Atlas	ho103f05 (20-Oct-04) ho103f06 (25-Oct-04) ho103f18 (14-Feb-05)	
ho104	F7	BLI	ho104f29 (23-Aug-05)	
ho105	FM with Mars Light	Atlas	ho105f00 (14-Jul-04) ho105f17 (31-Jan-05) ho105f29 (31-Aug-05) ho105f37 (13-Jan-06)	
ho106	FM without Mars Light	Atlas	ho106f00 (14-Jul-04) ho106f17 (31-Jan-05) ho106f29 (31-Aug-05) ho105F37 (13-Jan-06)	
ho107	E6 with Mars Light	LifeLike	ho107f02 (26-Aug-04) ho107f37 (10-Jan-06)	
ho108	E6 without Mars Light	LifeLike	ho108f02 (26-Aug-04) ho108f37 (10-Jan-06)	
ho110	F7	Intermtn.	ho110f33 (1-Nov-05)	
ho111	SD24/26	Atlas	ho111f04 (14-Oct-04) ho111f10 (2-Dec-04) ho111f18 (14-Feb-05) ho111F29 (31-Aug-05) ho111F37 (14-Jan-06)	
ho112	GP9	LifeLike	ho112f03 (10-Sep-0r) ho112f17 (31-Jan-05) ho112f37 (13-Jan-06)	
ho113	RS 10	CHC	ho113f10 (2-Dec-04) ho113f12 (22-Dec-04) ho113f18 (14-Feb-05) ho113f37 (13-Jan-06)	
ho115	E3/E6 with Mars Light	BLI	ho115f03 (10-Sep-04) ho115f17 (31-Jan-05)	
ho116	E3/E6 without Mars Light	BLI	ho116f03 (10-Sep-04) ho116f17 (31-Jan-05)	
ho117	E8/E9 with Mars Light	BLI	ho117f25 (28-Jun-05)	
ho118	E8/E9 without Mars Light	BLI	ho118f25 (28-Jun-05)	
ho119	E7 with Mars Light	BLI	ho119f09 (22-Nov-04) ho119f17 (4-Feb-05)	
ho120	E7 without Mars Light	BLI	ho120f09 (22-Nov-04) ho120f17 (4-Feb-05)	
ho121	E3/E6 with Mars Light	BLI	ho121f09 (22-Nov-04)	

ho122	E3/E6 without Mars Light	BLI	ho122f09 (22-Nov-04)	
ho123	RS 18	CHC	ho123f11 (5-Dec-04) ho123f12 (22-Dec-04) ho123f18 (14-Feb-05) ho123f37 (13-Jan-06)	
ho124	U28B/30B	LifeLike	ho124f13 (12-Jan-05) ho124f15 (24-Jan-05) ho124f18 (14-Feb-05) ho124f37 (13-Jan-06)	
ho125	RSD-15	BLI	ho125f14 (18-Jan-05) ho125f18 (14-Feb-05) ho125f23 (5-May-05)	
ho126	DASH 8-40BW, B	Atlas	ho126f17 (30-Jan-05) ho126f24 (10-May-05) ho126f36 (9-Jan-06)	
ho127	B23-7	Atlas	ho127f22 (26-Apr-05) ho127f36 (30-Dec-05)	
ho128	GE C30-7	BLI	ho128f21 (11-Apr-05) ho128f27 (28-Jul-05)	
ho129	MP-15DC	Atlas	ho129f32 (27-Sep-05)	
ho130	GP20	LifeLike	ho130f22 (27-Apr-05) ho130f34 (14-Nov-05) ho130f35 (28-Nov-05)	
ho131	AC6000	BLI	ho131f24 (17-May-05)	
ho132	DASH 8-40CW, C (GE pump and dynamic brakes)	Atlas	ho132f23 (3-May-05) ho132f36 (9-Jan-06)	
ho133	SW8	LifeLike	ho133f28 (19-Aug-05) ho133f37 (13-Jan-06)	
ho134	SD40 (Reed Switch)	BLI	ho134f25 (30-Jun-05)	
ho135	E8/E9 with Mars Light	LikeLike	ho135f25 (13-Jul-05) ho135f37 (13-Jan-06)	
ho136	E8/E9 without Mars Light	LifeLike	ho136f25 (13-Jul-05) ho136f37 (13-Jan-06)	
ho137	RS27 ALCO	LifeLike	ho137f30 (20-Sep-05) ho137f31 (23-Sep-05) ho137f32 (27-Sep-05)	
ho139	NSWR 620/720	Eureka	ho139f33 (3-Nov-05) ho139f35 (5-Dec-05)	
ho140	GP30	Walthers	ho140f34 (7-Nov-05)	
	Electric Locomotives			
ho200	GG-1	BLI	ho200c01 (6-Jul-03) ho200e02 (10-Oct-03) ho200e03 (9-Mar-04) ho200c02 (14-Apr-04) ho200f19 (18-Mar-05) ho200f27 (28-Jul-05)	
	Steam Locomotives			
ho300	Hudson	BLI	ho300a01 (4-Sep-02) ho300a02 (24-Sep-02) ho300e01 (9-Oct-03) ho300e02 (7-Jul-04) ho300e15 (19-Jul-04)	
ho301	Mikado	BLI	ho301e04 (29-Oct-03) ho301e05 (26-Mar-04) ho301f24 (17-May-05)	
ho302	M1A Mountain	BLI	ho302e05 (31-Oct-03) ho302e06 (8-Mar-04)	

			ho302f25 (12-Jul-04)	
ho303	ON30-C/16 standard	BLI	ho303e03 (27-Oct-03)	
ho304	ON30-C/16 with Xmas PFA	BLI	ho304e03 (27-Oct-03)	
ho305	ATSF 3751	BLI	ho305e08 (28-Apr-04) ho305e09 (29-Jun-04) ho305e10 (6-Jul-04)	
ho306	PRR-J1	BLI	ho306e08 (28-Apr-04) ho306e09 (1-Jun-04) ho306e10 (20-Jun-04) ho306f25 (112-Jul-04)	
ho307	UP 4-8-2 Mountain	BLI	ho307f20 (8-Apr-05) ho307f25 (30-Jun-05)	
ho308	Great Northern 700 SP&S	BLI	ho308f24 (6-Jun-05)	
ho309	PRR K4	BLI	ho309f01 (14-Aug-04) ho309f26 (27-Jul-04)	
ho310	C&O T1, Texas	BLI	ho310f08 (11-Nov-04)	
ho311	Mikado	TRIX		
ho312	N&W J 4-8-4	BLI	ho312f18 (14-Feb-05) ho312f24 (17-May-05) ho312f34 (17-Nov-05)	
ho313	NYC S1b Niagara 4-8-4	BLI	ho313f17 (30-Jan-05) ho313f25 (30-Jun-05)	
ho314	Hudson with Reed Switch			
ho315	USRA 0-8-0	LifeLike	ho315f24 (9-May-05) ho315f37 (14-Jan-06)	
ho316	AT&SF 3800 Class 2-10-2/2-10-4	BLI	ho316f24 (20-May-05) ho316f25 (28-Jun-05)	
ho317	2-8-4 Berkshire with Mars Light	LifeLike	ho317f26 (26-Jul-05) ho317f28 (10-Aug-05) ho317f34 (14-Nov-05) ho317f38 (27-Jan-06)	
ho318	2-8-4 Berkshire without Mars Light	LifeLike	ho318f26 (26-Jul-05) ho318f28 (10-Aug-05) ho318f34 (14-Nov-05) ho318f38 (27-Jan-06)	
ho319	0-6-0 Switcher	Walthers	ho319f33 (28-Oct-05)	
	Articulated Steam			
ho400	N&W Class A	BLI	ho400b01 (15-Apr-03) ho400e01 (9-Oct-03) ho400f27 (28-Jul-05)	
ho401	Pennsy Duplex T1	BLI	ho401e06 (25-Nov-03) ho401f25 (12-Jul-04)	
ho402	Challenger	Lionel	ho402d01 (17-Sep-03) ho402d02 (26-Sep-03) ho402d03 (1-Oct-03)	
ho403	Cab Forward AC4, AC5	BLI	ho403e07 (31-Jan-04) ho403e08 (29-Jun-04)	
	Gas Turbine			
ho500	Veranda	Lionel	ho500d04 (16-Feb-04)	
	Cattle Car			
ho800	Cows	BLI	ho800a00 (20-Jun-05)	
ho801	Hogs	BLI	ho801a00 (11-Jul-05)	

List End

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