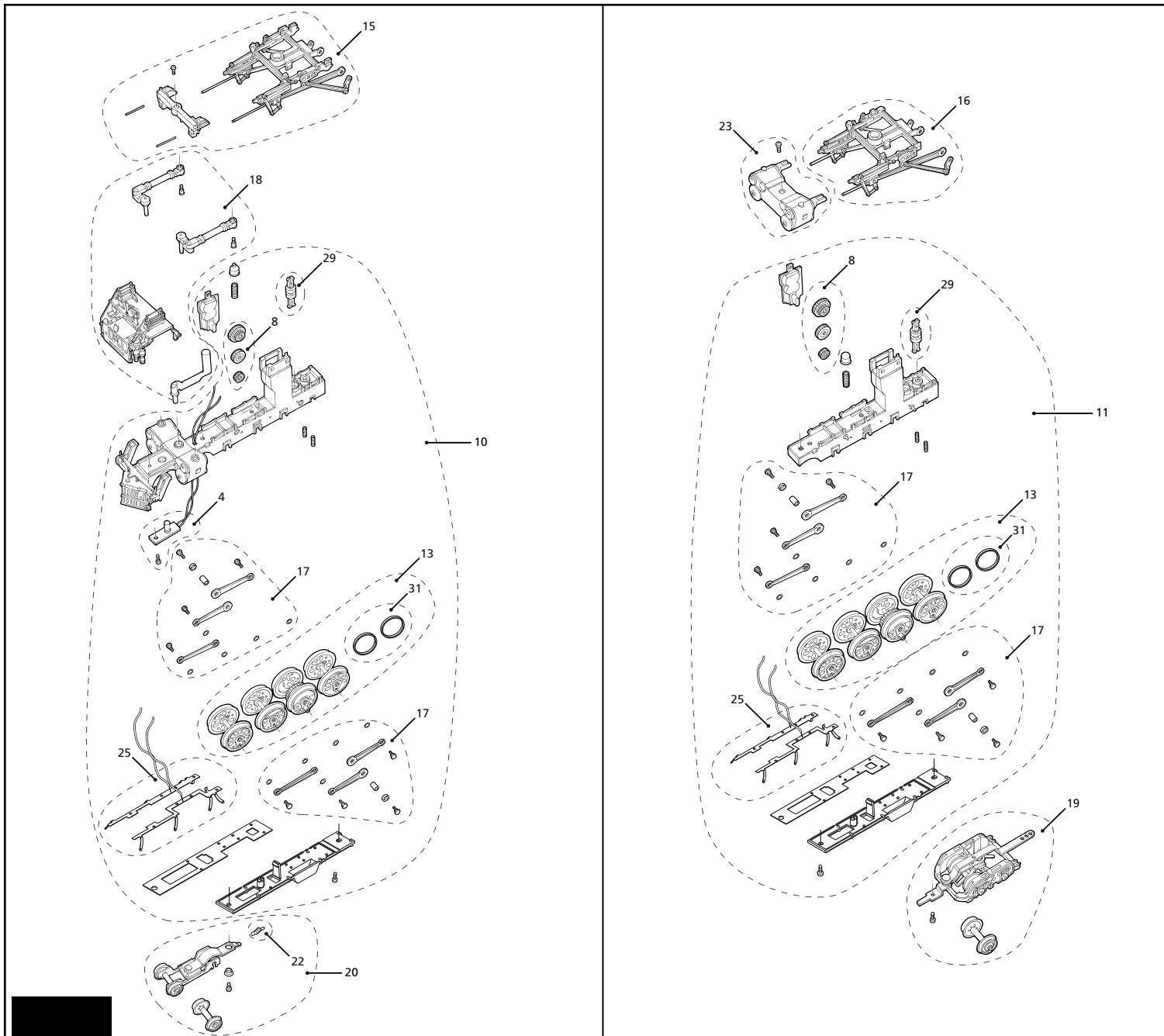


Steam locomotive UP class 4000 "Big Boy"

LIST OF SPARES / LISTA RICAMBI / ERSATZTEILLISTE

Part No. N° di parte Teil-Nr.	Description Descrizione Bezeichnung	Spare part ref. N° di ricambi Ersatzteil-Nr.
1	Motor + Flywheel Motore + Volano Motor + Schwungradscheibe	HR2637/01
2	Motor support Supporto motore Motorhalterung	HR2357/02
3	Main PCB board Scheda principale a circuiti stampati Hauptleiterplatte	HR2637/03
4	Light PCB Scheda circuito stampato luci Lichtleiterplatte	HR2637/04
5	Coupler pack Confezione attacco Kupplungssatz	HR2637/05
6	Worm pinion / Shaft assembly Gruppo pignone solidale / Albero Schneckenantriebs-/ Wellen-Baugruppe	HR2357/06
7	Universal shaft pack Confezione albero universale Universal-Wellensatz	HR2357/07
8	Gear set Set ingranaggi Zahnrad-Satz	HR2357/08
9	Gear box cover Carter trasmissione Getriebe-Abdeckung	HR2357/09
10	Front powered truck, complete Azionamento anteriore Antriebseinheit vorn	HR2637/10
11	Rear powered truck, complete Azionamento posteriore Antriebseinheit hinten	HR2637/11
12	Front bogie tender (with wheels) Carrello anteriore tender (con ruote) Drehgestell vorn (Tender, mit Rädern)	HR2357/12
13	Wheel set (Locomotive) Set ruote (Loco) Radsatz (Lok)	HR2357/13
14	Wheel set (Tender) Set ruote (Tender) Radsatz (Tender)	HR2357/14
15	Valve gear set (Front) Set distribuzione (anteriore) Steuerungs-Satz (vorn)	HR2357/15
16	Valve gear set (Rear) Set distribuzione (posteriore) Steuerungs-Satz (hinten)	HR2357/16



LIST OF SPARES / LISTA RICAMBI / ERSATZTEILLISTE

Part No. N° di parte Teil-Nr.	Description Descrizione Bezeichnung	Spare part ref. N° di ricambi Ersatzteil-Nr.
17	Connection rods Bielle Kuppelstangen	HR2357/17
18	Platform pack (4014) Confezione piattafoma (4014) Plattform-Satz (4014)	HR2637/18
18	Platform pack (4018) Confezione piattafoma (4018) Plattform-Satz (4018)	HR2639/18
19	Rear pony truck (with wheel sets) Carrello posteriore loco (con ruote) Drehgestell hinten (Lok, mit Rädern)	HR2357/19
20	Front pony truck (with wheel sets) Carrello anteriore loco (con ruote) Drehgestell vorn (Lok, mit Rädern)	HR2357/20
21	Rear tender pony truck Carrello posteriore tender (con ruote) Drehgestell hinten (Tender, mit Rädern)	HR2357/21
22	Bogie springs Molle carrello Drehgestellfedern	HR2357/22
23	Cylinder block Blocco cilindri Zylinderblock	HR2357/23
24	Tender ends pack (4014) Confezione estremità tender (4014) Tender-Endwände-Satz (4014)	HR2637/24
24	Tender ends pack (4018) Confezione estremità tender (4018) Tender-Endwände-Satz (4018)	HR2639/24
25	Current pick ups Lamelle presa di corrente Radstromabnehmer	HR2637/25
26	Connecting cable (incl. plug) betw. locom. and tender Connettore tender/loco Tender-Lok-Steckverbinder	HR2357/26
27	Screw pack (for tender) Confezione viti (per tender) Schrauben-Satz (für Tender)	HR2357/27
28	Screw pack (locomotive body shell) Confezione viti (corpo) Schrauben-Satz (Lokomotivkörper)	HR2357/28
29	Centre pin pack Confezione perno centrale Drehzapfen-Satz	HR2357/29
30	Assembly pack (for locomotive) Confezione Complessivo (per loco) Baugruppen-Satz (für Lok)	HR2357/30
31	Traction tyres pack (4 pcs.) Pneumatici Trazione (4 unità) Haftreifen (4 Stück)	HR2357/31

Rivarossi Sound Equipped Big Boy

Quick Start Guide

Please go to www.LokSound.com for a complete user manual

You have just purchased a Top of the Line Locomotive with one of the most State of Art Digital Sound Decoders on the Market. With nothing more than your Digital Command Station you have the option of 12 separate horns, 2 bells, and 2 brakesqueals. All changeable by one CV. No booster is needed! Each individual sound has a separate volume control, and up to 8 sounds can be played at one time! Not only that, but as new sounds become available and firmware gets updated, you can at anytime, hook up to our famous LokProgrammer and update your decoder! Along with outstanding sound, ALL LokSound decoders give you the benefit of the Industry Leading ESU Motor control. You'll see the difference instantly as the engine smoothly accelerates across your pike! Don't forget you also have the option to use one of our MANY lighting effects on any one of your 8(!) function outputs!

Technical data LokSound Select Decoder

Operational modes:

NMRA/DCC with 14, 28, 128 speed steps
2-digit (short) or 4-digit (long) addresses
Analog DC (Dual mode, de-selectable)
Automatic recognition of operational mode
Supports ALL NMRA programming modes

Power:

Runs all DC and coreless motors
Silent, safe 31,25 kHz pulse width frequency BEMF
Motor output overload protected

Function outputs:

8 outputs
250 mA load per output
Outputs short-circuit protected

Sound:

Audio amplifier: 2W @40ohms load
Speaker impedance 4-8 Ohms
Memory Capacity 32MBit
8 Sound Channels, All playable at once!
Over 20 different sounds!

Dimensions:

1.02 x 0.62 x 0.18 inch (25.5 x 15.5 x 4.5 mm)

Default Function Assignments

Function key	Effect
F0	Directional Headlights
F1	Bell
F2	Playable Whistle (see Whistle Chart)
F3	Coupler Clank
F4	Aux1
F5	Short Whistle
F6	Injector
F7	Switching Mode
F8	Steam Chuff On/Off (MUTE)
F9	Blower
F10	Air Pump
F11	Oil Burner
F12	Coal Shoveling
F13	Brake Release
F14	Sanding Valves
F15	Open Cylinder Cocks

Prime Movers

Prime Mover name	CV 48 value
UP Big Boy	

Steam Whistles 16 to choose from!

Airhorn name	CV 48 value
CB&Q 5-chime short bell	0
D&RG 5 chime step-top cast-iron	1
Great Northern 5 Chime	2
Hancock 3 chime	3
Hancock 3 chime short bell	4
Southern 3 chime cast iron	5
New York Central 5 chime	6
New York Central 6 chime	7
Norfolk & Western	8
Northern Pacific	9
Oldtime 3 Chime	10
Reading 6 Chime	11
Shay 4	12
JT&P Southern 610	13
Union Pacific Hancock 3-chime 14	14
Nathan P3	15

Decoders Bell Types 2 to choose from!

Bell Type	CV 48 value
Slow Bell	0
Fast Bell	64

Decoders Brake Squeals 2 to choose from!

Brake Squeal Version	CV 48 value
Brake Squeal Version #1	0
Brake Squeal Version #2	128

Extended Addressing

Most Command Stations will give you the option to enter a 4 Digit Extended Address. Please refer to your Command Station's Manual for guidance as to how to do this. If your command Station does not have this feature a full list of values and instructions are available on line at www.LokSound.com

Start Delay

While pulling a train a Prototype Locomotive will not move until the Prime mover has worked up enough power to provide the proper amount of electricity to the traction motors. For this reason when the LokSound Select sound is idling and you turn up the throttle, the locomotive begins to move only after the Diesel engine has reached notch1. Although this behavior is very prototypical, one might not like it because it causes some delay. You can disable this startup delay by simply Changing CV124 to a value of 16. This will cause the LokSound Select decoder to immediately start moving when the throttle is turned up. However, the start up sound will not be prototypically synced with the motion anymore. Instead it will start moving immediately like most other decoders.

Sound on/Sound Off (F8 Operation)

You will notice quickly that the F8 button will work differently than what you may be used to. This is done for two reasons. First so that you can hear both the start and Shut down sequences without any CV changes. Also so that upon power up the drain on your command station is not as great. Sound decoders draw quite a bit of power upon start up. Having the sound off initially when the layout is powered up is a much more efficient way on doing things. This can save your command station from an early demise! You may be used to other manufacturers who do this backwards. If you prefer you can easily reverse this feature in LokSound decoders.

Simply Change CV32 to 2, then CV403 to 32. Please note also that F8 only controls the prime mover sounds. On a real engine, as long as there is air, the bell and the horn will work when the prime mover is off! This is also the case in LokSound Decoders!

Sound Volume Control table

Function	CV	Range	Default
Master volume control	63	0 - 192	192
Steam Chuff Volume Control	259	0 - 128	128
Whistle Volume Control	275	0 - 128	128
Bell Volume Control	283	0 - 128	64
Coupler Sound Volume Control	291	0 - 128	128
Dynamo Volume Control	299	0 - 128	128
Air Pump Volume Control	307	0 - 128	128
Brake Set / Brake Release	347	0 - 128	128
Sanding valve Volume Control	355	0 - 128	128
Short Whistle Volume Control	379	0 - 128	128
Coal Shoveling Volume Control	371	0 - 128	128
Injector Volume Control	323	0 - 128	128
Open Cylinder Cocks Volume Control	395	0 - 128	128
Random sounds	451	0 - 128	100

BE SURE CV 32 IS SET TO 1 BEFORE CHANGING CVs 257-511

Decoder-Reset

Write value 08 into CV 08.

From time to time you may have the need to reset the decoder in your new Locomotive. Setting CV08 to a value of 08 will accomplish this. Be aware though that all user settings will be set back to factory defaults with this process. Your address will again become 03.

Sound Choices

This Factory equipped LokSound Digital Sound Decoder was built specifically to be correct for the Prototype of the model. You may find however that you would like different Sounds. All sounds can be changed with CV48 and your Command Station. CV 48 is calculated by adding the Prime mover, the Whistle, the Bell, and the brake squeal selection you would like in your model. By adding your choices from the charts above you will arrive at the value to put in CV 48.

Default Example:

Prime Mover = 0
Airhorn = 14
Bell = 0
Brake Squeal = 0

Total = 14
CV48 Value = 14

A full PDF Manual can be found at www.LokSound.com. Please refer to the LokSound Select Manual.

As a Reference NO BOOSTER is needed for programming.