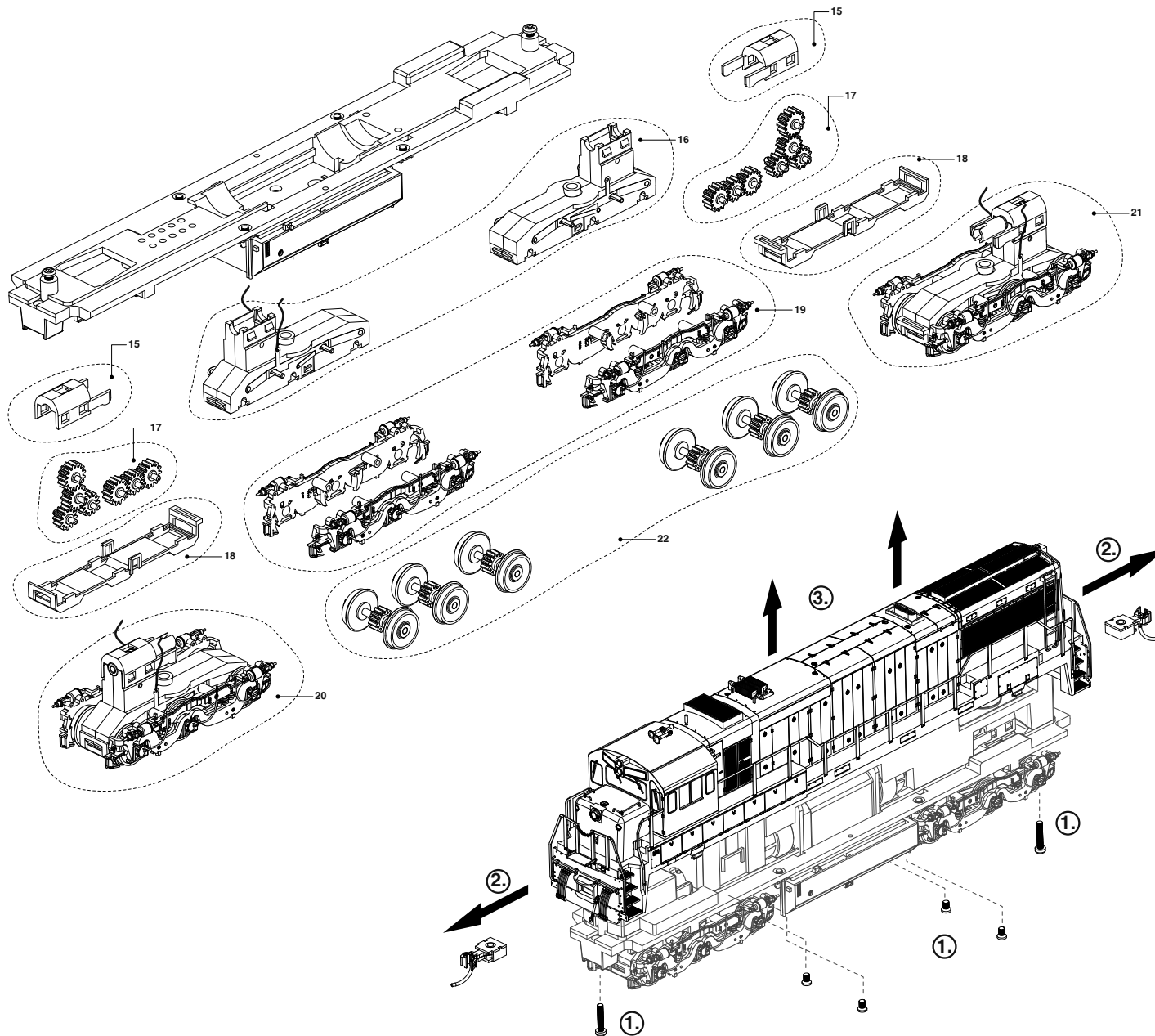# Rivarossi®

HR2536/HR2537 (ACL 3012)
HR2538/HR2539 (ACL 3016)

LISTA RICAMBI / ERSATZTEILLISTE / LIST OF SPARES

Item No. Teil-Nr.	Description Bezeichnung	Spare part ref. Ersatzteil-Nr.
1	Bodyshell accesories Gehäusezubehörteile	HR2536/01
2	Bodyshell grills Geätzte Gitter	HR2536/02
3	Diffusers Lichtleiter	HR2528/03
4	Body shell (#3012) Gehäuse (#3012)	HR2536/04
5	Body shell (#3016) Gehäuse (#3016)	HR2538/05
6	Couplers pack Kupplungssatz	HR2520/06
7	Additional parts for buffer beam Zurüstteile für Pufferbohle	HR2536/07
8	Photo-etched steps Geätzte Trittstufen	HR2536/08
9	Walkway handrails Umlaufgeländer	HR2536/09
10	LED PCB's LED-Platinen Spitzenbeleuchtung	HR2520/10
11	Main PCB incl. digital dummy plug Hauptleiterplatte inkl. Schnittstelle	HR2520/11
12	Worm gears Antriebsschnecken	HR2520/12
13	Cardanic shafts Kardanwellen	HR2520/13
14	Motor + motor support Motor + Motorhalterung	HR2520/14
15	Gear Box Cover Pack Getriebe-Abdecksatz	HR2536/15
16	Gear boxes with pick-ups Drehgestellrahmen mit Stromabnahmekontakten	HR2536/16
17	Gears Zahnräder	HR2520/17
18	Bogie base Drehgestellbodenabdeckung	HR2536/18
19	Bogie cover Drehgestellboden	HR2536/19
20	Complete bogies Drehgestelle, komplett	HR2536/20

Remove dummy plug to fit digital decoder

Zum Einbau des Digital-Decoders Dummystecker entfernen

CE 12V 14+

LISTA RICAMBI / ERSATZTEILLISTE / LIST OF SPARES

Item No. Teil-Nr.	Description Bezeichnung	Spare part ref. Ersatzteil-Nr.
21	Complete bogie Drehgestell, komplett	HR2536/21
22	Wheel set Radsätze	HR2520/22
23	Screws Schrauben	HR2520/23

Rivarossi HO Scale U25C Assembly and Dis-Assembly instructions

To Dis-Assemble:
1. Remove 4 screws (short) on either end of the fuel tank.
2. Remove coupler pocket screws (long) at each end and remove couplers from each end of unit.
3. Gently grasp body shell and lift straight up to uncover mechanism.

To Re-Assemble:
1. Gently grasp body shell and place on mechanism- taking care to line up screw holes.
2. Insert couplers from the ends and line up screw holes – insert longer screws to attach couplers.
3. Insert and secure 4 short screws at either end of fuel tank.

CE 12V === 14+
Issued April 2014 **Service Sheet HRBS-406**

RRivarossi®

ESU LOKSOUND ★SELECT★

Rivarossi Sound Equipped GE U25C
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 @4Ohms load
Speaker impendance 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 Airhorn (see Air Horn Chart)
F3	Coupler Clank
F4	Dynamic Brake
F5	Number Board Lights
F6	Emergency Light 1
F7	Emergency Light 2
F8	Prime Mover Sound On/Off (MUTE)
F9	Manual Notching Up
F10	Manual Notching Down
F11	Compressor
F12	Slow Spitter Valve
F13	Switching Mode
F14	Sanding Valve
F15	Short Air Let Off
F16	Radiator Fan
F17	Brake Set/Release
F18	Fast Spitter Valve
F19	Spitters on Shut (press to disable)

Diesel Prime Movers

Prime Mover name	CV 48 value
There is only one GE 16cyl FDL Prime Mover sound on this decoder. Please use a Value of 0 for this part of the CV48 calculation. (See Below)	

Diesel Decoders Airhorns — 12 to choose from!*
*3 duplicates due to avalable memory

Airhorn name		CV 48 value	
Nathan K5LA		0	
Nathan K3L		1	
Nathan M5 - ACL		2	
Nathan P3 - Northern Pacific	3	3	Default
Nathan P5A		4	
Leslie S2M - CB&Q		5	
Leslie RS3L - L&N		6	
Leslie S3L - PRR - CR - PC		7	
Leslie S5T		8	
Leslie M3		9	
Leslie RS3K		10	
Nathan K5H		11	
Leslie S3L		12	
Nathan Holden M3H		13	
Leslie S2M		14	
Nathan P3		15	

Diesel Decoders Bell Types — 2 to choose from!

Bell Type		CV 48 value	
Slow Bell	0	0	Default
Fast Bell		64	

Diesel Decoders Brake Squeals — 2 to choose from!

Brake Squeal Version		CV 48 value	
Brake Squeal Version #1	0	0	Default
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 oving 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 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 horn, 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.

Diesel sound Volume Control table

Function (Diesel)	CV	Range	Default
Master volume control	63	0 - 192	192
Diesel Volume Control	259	0 - 128	128
Horn Volume Control	275	0 - 128	95
Bell Volume Control	283	0 - 128	70
Coupler Sound Volume Control	291	0 - 128	128
Dynamic Brake Volume Control	299	0 - 128	65
Air Compressor Volume Control	307	0 - 128	64
Brake Set / Brake Release	347	0 - 128	40
Sanding valve Volume Control	355	0 - 128	128
Short Air Let Off Volume Control	379	0 - 128	128
Fast Spitter Valve Volume Control	371	0 - 128	80
Slow Spitter Valve Volume Control	387	0 - 128	80
Shutdown Spitter Valve Volume Control	395	0 - 128	80
Random sounds	451	0 - 128	40
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.

Default Example:
Prime Mover = 0
Airhorn = 3
Bell = 0
Brake Squeal = 0

Total = 3
CV48 Value = 3

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.

HORNBY HOBBIES