

TrainCraft by Klaus[®]

TrainCraft by Klaus, LLC
To order call 770-886-6670 or email klaus@traincraftbyklaus.com



We keep your **LGB** trains running! Service and Price List

TrainCraft by Klaus[®] with your "Famous Klaus" at its helm provides : sound and DCC installations for analog and digital **LGB** locomotives, **LGB** loco restorations, repairs and parts replacement, spare parts supply for almost anything **LGB** . Klaus utilizes outstanding sound decoders of the newest kind or **Original LGB** parts. His excellent technical execution and consummation have become the benchmark for **LGB** loco installation and repairs.

With over 30 years of **LGB** products experience, Klaus has invented and implemented some road-paving **LGB** products like the Duo-coupler, the firebox, and more. Klaus was instrumental designing the LGB Mogul loco chassis and the operating of the first **LGB** 2074 Spreewald. Klaus continues an ongoing personal working relationship with almost all of the "Old **LGB** Dinosaurs" still standing. His abundant, comprehensive knowledge, unparalleled craftsmanship, his sophisticated workshop machinery and his sincere belief in service constitute the soul of this company.

Klaus designs and manufactures components in his workshop (utilizing sophisticated , state-of-the-art and computer-controlled machinery) that enhance and improve the operation of your **LGB loco, replace original **LGB** parts no longer available, or enable operating mixed manufacturers for accessories in your **LGB** loco.**

Klaus uses only the very best, leading decoders in sound and DCC.

Klaus was instrumental in setting and implementing the Old German **LGB standards. Hence, each loco / car that passes through Klaus' workshop becomes a warrant of these Old German **LGB** standards.**

Our prices reflect the service mentality that you have come to love and admire in Klaus. Our "help-desk" is there for you - either by phone or by email. We do ask for a minimum order volume of US 45.00. However, to not interfere with your most pressing **LGB** needs we'll ship for less - BUT do ask you to donate the remaining balance to: The Humane Society in your neighborhood or The Children's Hospital in your neighborhood. –

!! Thank You !!

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Analog Operation: we carry old and very old spare parts for analog operation and for serial data processing – please call to inquire re your individual LGB needs.

Motor Replacement

LGB locos built until 2000 are driven by Bühler motors that were generally built in Western Germany (until 1989) and later built in Germany. Those Bühler motors used to have a lifespan of approximately 20 years. Your motor might start to fault when you observe one or more of these features:

Loco pulls high amperage, loco drives noticeably slower, sometimes makes noises, doesn't drive and needs push to get started, doesn't drive at all or produces a short in the system.

Note: in digital operation, a faulty motor which pulls too much amperage will cause the decoder to switch off as a safety device and the decoder will restart only after a cooling period! If this function is used more than 2 or 3 times the decoder may get damaged.

Replacing a motor can be a daunting task. After all, you want to make sure not to harm your LGB loco while opening her up, connecting the incorrect wires, damage wires or damaging her while reassembling.

Klaus utilizes **only** Original Bühler motors when replacing motor(s) in LGB locos. He is very well stocked in short and long shaft motors.

Bühler motor replacement.....starting at \$ 150.00
Depending on loco type and condition of loco including motor and workshop time

Bühler short shaft motor.....\$ 78.00

Bühler long shaft motor.....\$ 78.00

Motor replacements in Klaus' workshop usually include dusting of the loco, overall check if the loco is in running order, and greasing.

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Driving Decoder Installations

Recognize a faulty driving decoder when your LGB loco drives only in one direction (mostly backwards only) or the loco is “dead”.

Single motor locosstarting at US\$ 165.00

Stainz, Mogul 2018/19, LGB 2080 includes decoder and workshop time
2062,2063, Mikado et.al.

2-motor locos.....starting at US\$ 215.00

2055/56, 2040, 2042/43, 2085 includes decoder and workshop time
2088/89 Saxonian IV et.al.

LGB Forney and Aster locos require special attention; please inquire re your needs.

Klaus' preferred driving decoders:



The brand new ESU Lokpilot XL 4.0

To quote ESU's own webpage description of this decoder: “ The biggest of all LokPilot decoders is truly the new LokPilot XL V4.0. It speaks DCC with RailCom-Plus®, Motorola®, Selectrix® and M4 as well as auto-detection. With its high motor-output performance, 8 function (channels) and 4 servo channels as well as an

integrated PowerPack it is perfectly made for outdoor railway and large scales. Screw terminals make a simple installment possible.” For further detailed information call Klaus or go to <http://www.esu.eu/en/products/lokpilot/lokpilot-xl-v40/>. This decoder is truly state-of-the-art, filling a void that even Lenz (as the mother of all G-Scale decoders) couldn't quite fill. \$ 99.00 estimate.



LenzGOLD maxi, 3 Amps, 5A max, firebox light ..\$ 104.00

Very good performance in slow speed, SUSI bus for sound + pulsed smoker addition, brake-on-DC, functions for various light effects like Gyra, MARS, Strobe, mapping + dimming outputs. Decoders are field tested! Fully compatible with LGB MTS, update-able.

LGB decoders are still available. Klaus likes to reserve them for in-house restorations of very old LGB locos. Please inquire re your individual LGB needs. **Dietz, Uhlenbrock**, and other driving decoders available on request.

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Decoder Accessories

Support plate for decoder installations into Mogul 2019.....\$9.50
Designed by Klaus, **manufactured in his workshop** **Made in USA**

Mix Multi Manufacturers in one loco board.....starting at \$ 50.00
Combine a pulsed smoker from one manufacturer with
A sound from another manufacturer with Klaus'
Multi-Mix Board, customized to your loco needs,
Manufactured in his workshop **Made in USA**

Sound Decoder Installation

Old analog sound boards as you will find them in very old, analog Moguls (2019S), old analog 2080S et al have a maximum lifespan of 18- 20 years. Their (sound boards) capacitors or transistors age and die. Therefore you might experience that a chuff is missing or gets weaker, the battery buffer doesn't work anymore (no standing sound). Repair of these old sound boards is not possible since most of the old (dating back to 1983 to 1987) electronic boards are simply no longer made nor available.

Solution: installation of a Klaus' recommended new technology sound board which may vary regarding the LGB loco type. Klaus supplies **sound for all LGB loco types made from 1968 to 2006**. If made after 2006 (by "LGB" or Märklin) or if you need sound for a non-LGB loco like Aristocraft, Klaus will find the sound you need using the leading state-of-the-art sound decoder manufacturers: ESU (Germany), and Phoenix (USA). On request Klaus may replace LGB sound decoders in historically precise restorations. All new sound decoders utilized by Klaus are updateable.

Sound board/decoder installations can be tricky. Depending on the type of LGB loco the innards of the loco might not provide enough space to place the decoder without conflicting with other parts, there might not be a cut-out for the loudspeaker and cable length might be tight. **Therefore Klaus has designed and manufactured various accessories for sound installation like the decoder support plate for a Mogul, the 57mm disk for loud speaker installation, several loud speaker adapters and other helpful gadgets.**

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Sound installations by Klaus

For LGB Diesel loco types starting at.....**US\$ 350.00**
including sound decoder/board,
Loudspeaker, misc + workshop time

For LGB Steam engines starting at.....**US\$ 430.00**
including sound decoder/board,
Hall sensor set Loudspeaker, misc +
workshop time

For LGB electric locos.....all sounds available!.....please inquire

LGB engine restorations and unique sound installations receive a
Certificate.

ESU Sound Decoder

ESU Loksound decoders come in a “package” with the driving decoder and sound decoder combined on one board. Klaus utilizes the field (and Klaus-) tested ESU LoksoundXL V4, 4-6 Amps driving power, sound output 2 x 6.5 Watt, 2 loudspeakers, 2 channel sound output, 16bit rate, can be adjusted to all motor types, **works extremely good at extreme slow speed (“snail motion”)**, field tested by ESU and Klaus!

ESU Loksound XL V4.....\$ 254.00

Phoenix Sound Decoder

Phoenix sounds are of very high and excellent sound quality. Chuffs, bell, whistle and rumbles are clear and distinctly separated. The Phoenix sound does require an additional driving decoder and matches with ANY NMRA compatible decoders on the market.

Phoenix sound board package starting at\$ 245.00

Uhlenbrock / Dietz Sound Decoder

Uhlenbrock /Dietz sound boards/decoders are reliable German technology boards featuring the well-liked German type of modular system, meaning you can “build your own sound” to your individual needs. They require a SUSI interface and provide a large array of loco sound and layout sound (functions) to combine.

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Dietz/Uhlenbrock sound boards require a driving decoder with a SUSI interface.
Another benefit: extreme small dimensions: 40mm x 24mm x 8mm

Dietz/Uhlenbrock sound board package starting at.....US\$ 270.00

The following sounds are listed according to their match into LGB locomotives numbering. The LGB numbers listed are NOT the numbers as they appear on your locomotive but follow the numbering system LGB used for their engines. All locomotives or self propelled rail "machines" were numbered by LGB under the basic system "2" for engine, "0" for series 0-9, and the last 2 positions to define the loco type: a 2019 then would be a Mogul- coal fired. However Box numbers also include: 21191, 23191, 26182 (for a Mogul wood burner w/sound) et al since they became 5-position numbers in the early 90's.

These sounds are available - - - NOT listed by manufacturer!!

STEAM LOCOS

2010	Stainz
2013	Waimanalo Hawaii narrow gauge loco
2014	Industrial Steam loco / Field loco – not LGB'chen
2015	DR Tnd Steam loco, 99 2115
2016	Porter style steam loco
2017	Stainz w/ tender
2018	Mogul wood fired (various Mogul types were offered through the years, matching sounds for various RR-lines and Mogul types are available!)
2019	Mogul coal fired
2020	Stainz Steiermark type Steam + 0-4-0 German type steam
2021	Stainz
2022	
2023	Mostly China manufactured steam locos
2024	
2025	Forney
2026	HF 110 Nicki/ Frank S
2027	Ge 3 / 4 Heidi RhB
2028	Mogul type, irregular numbering

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These sounds are available

XXX	Aster Shay
XXX	Aster Mikado
XXX	Frank S
XXX	Aster LGB HSB 99 7243 5-axle
2047	Cog Wheel Ballenberg/ Brüning/ rack steam loco
2050	OEG German tramway 0-4-0 "Feuriger Elias"
2070	Series "U" 43
2071	Series "U" Zillertal
2072	Series "U" Steyrtal
2073	Series "U" Waldenburg
2074	Spreewald
2075	0-4-0T "D.C.&GR.W.R.R."
2076	0-4-0T sold only on sets
2077	Original Porter
2078	0-6-0T French National CFN Mikado (built 1990-92)
2079	0-6-0T French CFN Mikado (Built 1993-96)
2080	Harz 3-axle HSB 1C1 99-6001
2081	Harz 5-axle HSB 1E1 99-222
2082	Aster Shay
2083
2084	Saxonian IV/K + 132+132S, DR 99
2085	Mallet
2086
2087	Mikado
2088	2-6-6-2T Uintah Mallet
2089	Sumpter Valley
28001	Ruegen Steam loco (LGB left their own numbering system quite often)

Diesel locos

2049	Genesis
2051	V 51/52 Series/ BR 80
2055	White Pass & Yukon Alco Diesel
2056	Alco Diesel "Rio Grande"/ also Santa Fe
2057	F 7 A
2058	F 7 B
2059
2060	Schoema Diesel loco
2061	Diesel Switcher
2062	0-6-0 Diesel, industrial diesel loco

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These sounds are available

2063	2-axle Diesel, based on D&RGW #50
2064	VT rail bus
2065	Rail bus "Wismar"
2066	Anteater Railbus
2067	Track cleaning loco
2090	BR 239 "Köf", DB Diesel, V10 105
2091	Field RR, Field "Jonny", DMM
2095	ÖBB Diesel
2096	ÖBB Diesel w/sound

Electric locos

2030	Mixnitz RR AEG loco
2031	as 2030 but different coloring (blue/white lettering)
2032	as 2030 , here "Steeple Cab"
2033	Swiss service pantograph loco
2034	also 2030 series, different painting
2035	German Streetcar
2036	open-platform German Streetcar, Cologne
2038	New Orleans streetcar
2039	Abe-4-4, 31
2040	Crocodile
2041	Swiss Rail tractor Rotten lok
2042	MOB Ge 4/4
2043	Ge 4/4 II RhB
2044	Switching loco.
2045	Ge 2/4 RhB
2046	Ge 2/4 (imprinted w/ "ER" -1986 only- in honor of Eberhard Richter-co founder of LGB)
2047	He 2/2
2052	ICE (German)

Please inquire for any other numbering you see on your LGB loco, they may be 5-digit and 5-digit with additional lettering. Sets have all kinds of numberings on them. Klaus has 99% of best matching or original sound available.

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Sound & Decoder Accessories

Klaus utilizes loudspeakers and volume controls made fine, leading, high-quality providing German manufacturers. In his workshop Klaus designs and manufactures support plates, manual volume controls, and chuff sensors. **Please inquire for anything you don't see listed below:**

Loudspeakers

57 mm loud speaker, 8 Ohm 2 Watts.....	23.75
57 mm plastic disk, Made in USA , for installation.....	9.50
70 mm loud speaker 2 Watts, 8 Ohms.....	20.25
46 mm metal loud speaker, 8 Ohm, 3 Watts.....	18.20
40 x 40 mm loud speaker 2 Watts, 8 Ohms.....	20.25
Loudspeaker adapter, 57 mm, Made in USA	22.00
Loudspeaker adapter, 70 mm, Made in USA	22.00
Hall sensor set.....	49.30
sound axle.....	inquire

Smoke and Smoke Accessories

NEW! ESU pulsed smoker-----price not yet available

5Volt smoke generator, LGB 65853 Seuthe Original Smoker	35.65
18 Volt smoke generator, LGB 65803 Seuthe Original Smoker	35.65
24Volt smoke generator, LGB 65553 Seuthe Original Smoker	35.65
boiler adapter for steam locos G Scale, Made In USA	8.12
adapter for pulsed smoker for LGB, Made in USA	37.72

Cables

All cables are **Made in USA** in Klaus' workshop. If you need a custom made cable, please call and Klaus will manufacture it according to your needs.

Stocko connector female x-lead (2-6).....	4.20
Stocko connector male x-lead (2-6).....	4.20
LGB light converter cable.....	14.00
F 7 cable set, (1) 4-lead, (1) 2-lead.....	18.90
Mikado/ F7 4-lead cable-	12.00
DCC light harness for LGB 2055/56.	34.90

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Cables continued....

10-phase cable for all loco functions f. LGB locos.....	14.15
F 7 2-lead cable	9.00
5-lead connection cable for xx23, 12 cm long.....	11.00
Banana plug cable for LGB locos 2015/17 series.....	14.00
4-lead cable set LGB for driving decoders, connect to interface or motorblock	inqu.
6-phase cable,for LGB 6-phase interface to control special loco functions	14.15

Mechanical Wear & Tear Parts

Buehler long shaft motor	78.00
Buehler short shaft motor	78.00
carbon brushes, 14 mm (8) per pack	18.00
carbon brushes. 16 mm, (8) per pack	18.00
cleaning block for LGB 50040	Market price
cleaning wheels, 2 per pack	29.00
connecting rod for 2062, 3-hole- Diesel loco	Market price
connecting rod for 2063, 2-hole	Market price
connecting rod for Forney	Market price
connecting rod Mogul	Market price
connecting rod set for 2040 crocodile	Market price
eccentric crank for Mikado	Market price
F 7 traction tire	Market price
gear wheel	15.00
gear wheel Uintah/2x23	18.00
intermediate gear wheel Mogul	16.00
motor block housing for Stainz	Market price
Porter driving plastic gear	20.00
power shoe assembly	Market price
power shoes, (2)/pack	14.50
traction tire regular LGB size	4.19
traction tires for Mikado, 54mm	Market price
wheel axle	15.00
wheel for 2063	17.00
wheel for Stainz	18.00

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LGB parts continued.....

bell for Mogul loco	Market price
LGB hook for locos	4.95
flag pole, black. Or flag pole golden	Market price
whistle for Stainz	Market price
LGB Mogul generator	Market price
Mikado r/h push rod assembly	Market price
tender step	Market price
head light insert	Market price
headlight lens	Market price
hydraulic coupler for 2063 Diesel Switcher	Market price
coupler head for 2063, Diesel Switcher	Market price
coupler rod for 2063 Diesel Switcher	Market price
Mikado bell	Market price
Mikado bell holder	Market price
Mikado pilot cowcatcher	Market price
stanchion	Market price
handrails for Mogul tender	Market price

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