Hinweis:

Einige PIKO Modelle können mit einem Pufferkondensator auf der Lokplatine ausgerüstet werden. Die Kapazität des Kondensators richtet sich nach den jeweiligen Vorgaben des verwendeten Decoders. Wenden Sie sich deshalb bitte bei Anfragen zu möglichen Pufferkondensatoren an den jeweiligen Decoder-hersteller.

Some PIKO models are equipped with a buffer condenser on the circuit board. The capacity of the condenser depends on the respective requirements of the applied decoder. For requests about suitable buffer condensers please contact the respective decoder manufacturer.

Certains modèles PIKO peuvent être équipés d'un condensateur de protection sur la platine de la locomotive. La capacité du condensateur varie alors selon les préconisations du fabriquant du décodeur utilisé.
En cas de questions concernant ce condensateur de protection veuillez- vous adresser au fabriquant du décodeur utilisé.

Sommige modellen van PIKO kunnen worden uitgerust met een buffercondensator op de hoofdprintplaat van de loc. De capaciteit van de condensator is afhankelijk van de specificaties van de gebruikte decoder.
U dient zich daarom tot de fabrikant van de decoder te wenden met betrekking tot de mogelijke buffercondensatoren.

Notizen:

PIKO Spielwaren GmbH • Lutherstraße 30 • 96515 Sonneberg • GERMANY

51846-90-7010

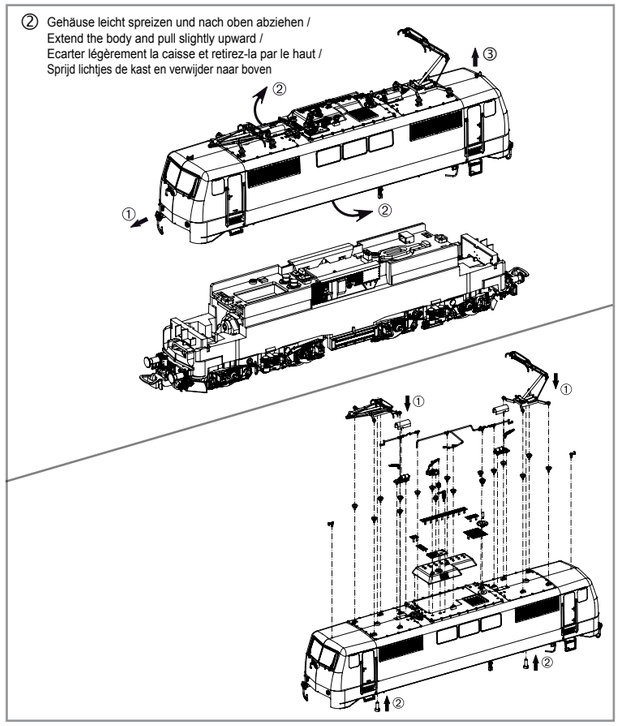
BEDIENUNGSANLEITUNG
ELEKTROLOKOMOTIVE BR 111

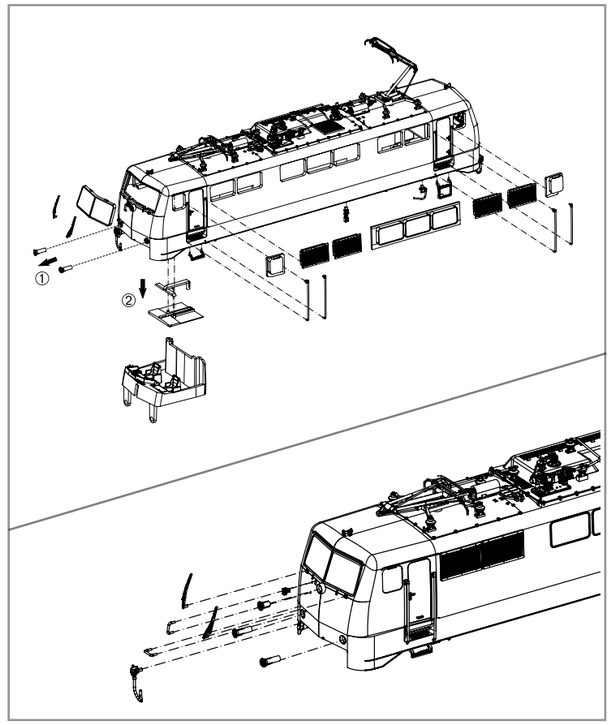
Instruction sheet for Electric Locomotive BR 111

PluX22

 # 51846 Gleichstrom DC 0-12 V ⎓

 # 51847 Wechselstrom AC 0-16 V ~

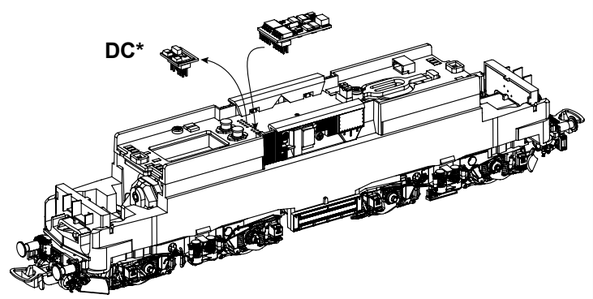




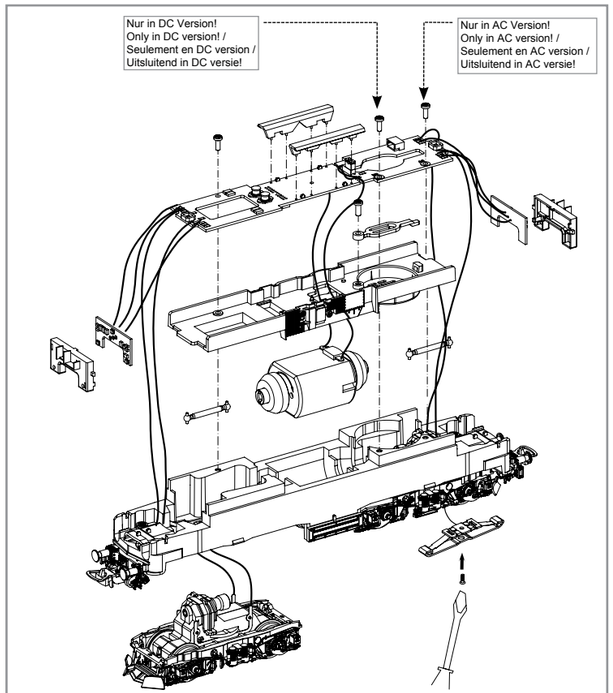
Decodereinbau:
Installing Decoder /
Installation du décodeur /
Inbouw decoder

In DC Version nicht enthalten!
Not included in DC version! /
Non compris dans la version 2 rails DC! /
Bij de DC versie niet inbegrepen!

PIKO # 56400 / # 56401

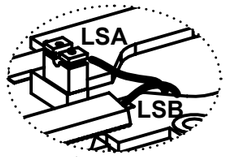


* Bitte Brückenstecker aufbewahren!
Please save the DC Bridge!
Conservez l'interface digitale!
De brugstekker s.v.p. bewaren!

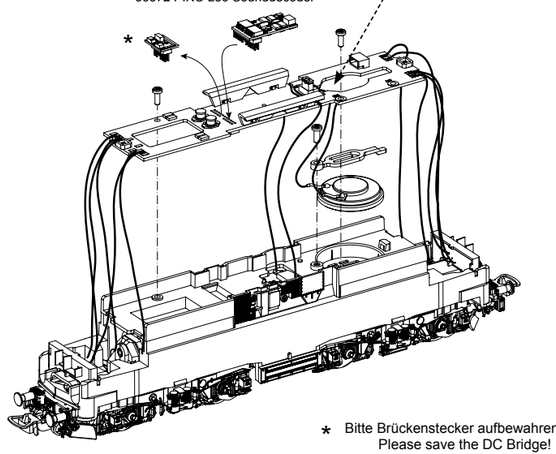


Zurüstbauteile in DC-Version:
Extension in DC version /
Pièces pour Version DC /
Bijkomende onderdelen DC-versie

Kabel von Lautsprecher auf Leiterplatte anlöten! /
Solder cables of speakers on mainboard on! /
Souder les câbles du haut parleur au circuit imprimé /
Kabel van de luidspreker op de printplaat solderen!



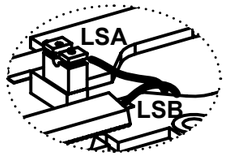
56372 PIKO Sound-Decoder
56372 PIKO Sound Decoder Kit
56372 PIKO Sound Décodeur
56372 PIKO Loc-Sounddecoder



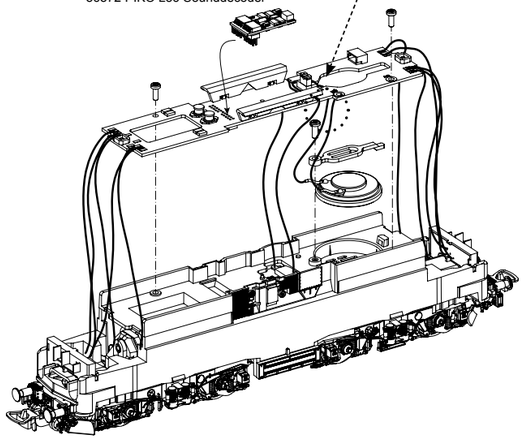
* Bitte Brückenstecker aufbewahren!
Please save the DC Bridge! /
Conservez l'interface digitale! /
De brugstekker s.v.p. bewaren

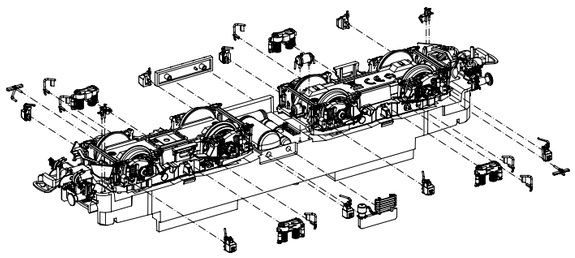
Zurüstbauteile in AC-Version:
Extension in AC version /
Pièces pour Version AC /
Bijkomende onderdelen AC-versie

Kabel von Lautsprecher auf Leiterplatte anlöten! /
Solder cables of speakers on mainboard on! /
Souder les câbles du haut parleur au circuit imprimé /
Kabel van de luidspreker op de printplaat solderen!

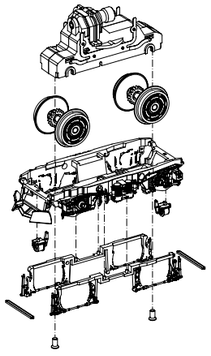


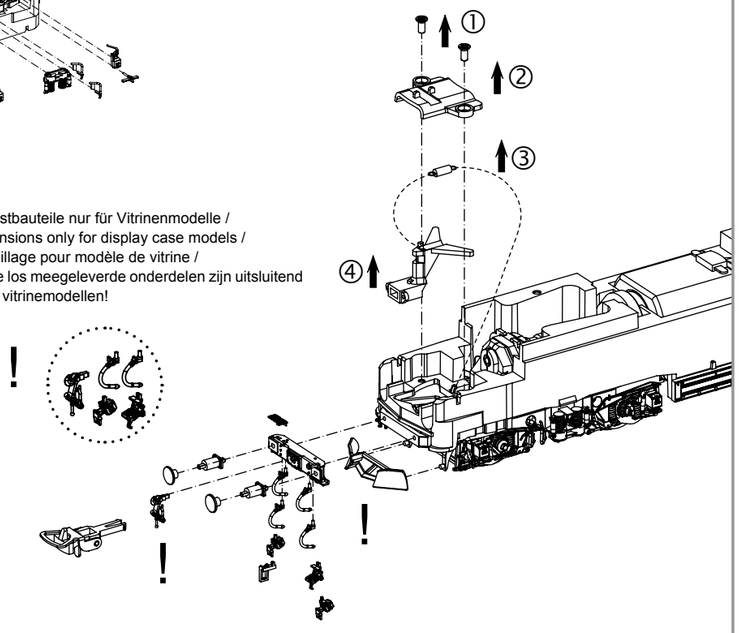
56372 PIKO Sound-Decoder
56372 PIKO Sound Decoder Kit
56372 PIKO Sound Décodeur
56372 PIKO Loc-Sounddecoder





Zurüstbauteile nur für Vitrinenmodelle /
Extensions only for display case models /
Détaillage pour modèle de vitrine /
Deze los meegeleverde onderdelen zijn uitsluitend voor vitrinemodellen!

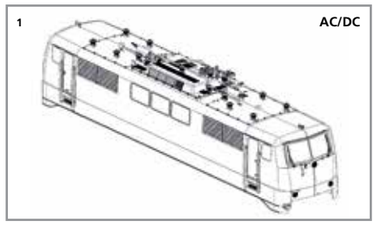


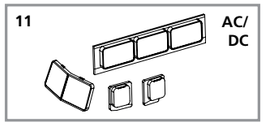


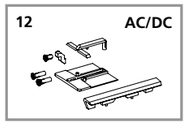
ERSATZTEILE ELEKTROLOKOMOTIVE BR 111

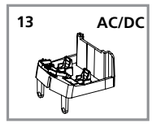
Spare parts for Electric Locomotive BR 111

Bei Ersatzteilanforderung bitte immer die vollständige Ersatzteil-Nr. angeben • Please order the wanted spare part with the complete spare part item number.

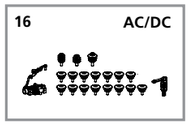


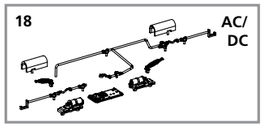


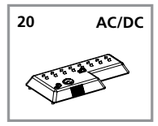


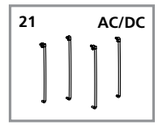




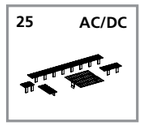




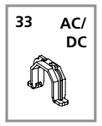


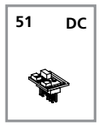


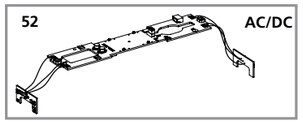


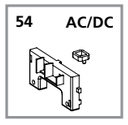


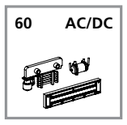


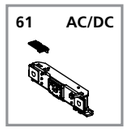


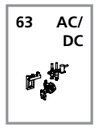


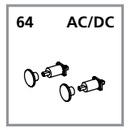


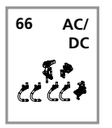


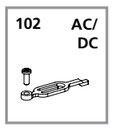


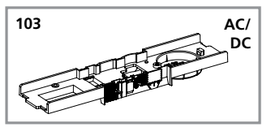


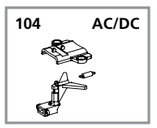


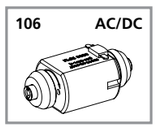


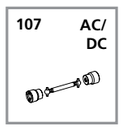


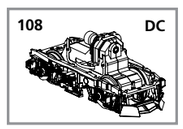


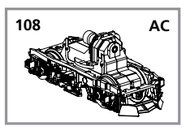


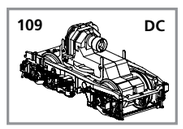


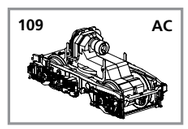




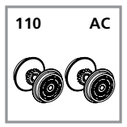


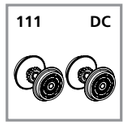












Bezeichnung / Description	ET-Nr. / spare part N°	PG*
Gehäuse, komplett (ohne Stromabnehmer) / Body, complete (w/o pantograph)	51846-03	17
Fenster (4-tlg.) / Windows (4 pcs.)	51840-11	8
Leuchtstäbe mit Lichtabdeckung / Light bars with light mask	51840-12	8
Führerstand / Driver cab	51846-13	6
Düsenlüfter (4 Stck.) / Air grill (4 pcs.)	51844-15	8
Isolatoren / Isolators	51844-16	9
Leitungen, Stromabnehmerantrieb / Cables, Pantograph drive	51844-18	8
Mitteldach / Middle roof	51844-20	7
Türhandstangen (4-tlg.) / Door handrails (4 pcs.)	51840-21	8
Handgriffe, Antenne, Scheibenwischer / Handles, Antenna, Wipers	51846-22	9
Dachlüfteraufsatz, Dachläufe / Roof fan, pipes	51844-25	10
Anbauteile Unterkante Gehäuse / Small parts for Body	51846-26	8
Getriebeklammer / Clamp	59560-33	6
Hauptplatine mit Beleuchtungsplatinen und Kabel / Main board with light board and wires	51846-52	15
Lichtmasken / Light mask	51840-54	6
Batteriedeckel, Luftbehälter, Luftkühler / Cover-battery box, Air reservoir, Air cooler	51844-60	8
Pufferbohle / Buffer beam	51844-61	8
Behälter, Auftritt Pufferbohle, Stromkupplung / Box, Step for buffer beam, Voltage coupler	51844-63	6
Puffer mit Pufferhülse / Buffer with buffer-short	51844-64	6
Bremsschlauch, Zughaken / Brake hose, Coupling hook	51844-66	7
Halter Lautsprecher mit Schraube / Holder for Loud speaker with screw	51730-102	6
Motorhalter / Motor cover	51840-103	8
Deichsel, Abdeckung, Feder / Drawbar, Cover, spring	51844-104	8
Motor, komplett / Motor, complete	51730-106	15
Kardanwelle + Buchsen / Cardan billow + bushes	51730-107	7
Drehgestell mit Kleinteile, hinten / Bogie with small parts, rear	51846-113	11
Kleinteile Drehgestell / Small parts for bogie	51846-114	10
Schrauben-Set (11-tlg.) / Set of Screws (11 pcs.)	51730-124	7
Feder (4 Stck.) / Spring (4 pcs.)	59520-135	6

*Preisgruppe *price category

Bezeichnung / Description	ET-Nr. / spare part N°	PG*
ET aus unserem Standard-Programm / Spare parts standard range		
Haftreifen (10 Stck.) / Friction tyres (set of 10)	56028	
Kupplung (2 Stck.) / Coupling, complete (set of 2)	56030	
Stromabnehmer / Pantograph	56258-2	
PIKO Sound-Decoder / PIKO Sound Decoder Kit	56372	
nur für DC-Version / only for DC version		
Brückenstecker / Strapping plug - DC	59740-51	8
Getriebe mit Drehgestell vorne, komplett / Gearbox with bogie front, complete	51846-108	14
Getriebe mit Drehgestell hinten, komplett / Gearbox with bogie rear, complete	51846-109	14
Radsatz ohne Haftreifen (2 Stck.) / Wheelset w/o friction tyres (2 pcs.)	51844-110	9
Radsatz mit Haftreifen (2 Stck.) / Wheelset with friction tyres (2 pcs.)	51844-111	9
Drehgestell mit Kleinteile, vorne / Bogie with small parts, front	51846-112	11
ET aus unserem Standard-Programm (nur DC-version) / Spare parts standard range (only CC version)		
PIKO SmartDecoder 4.1 PluX22 / PIKO SmartDecoder 4.1 PluX22	56400	
nur für AC-Version / only for AC version		
Getriebe mit Drehgestell vorne, komplett / Gearbox with bogie front, complete	51847-108	14
Getriebe mit Drehgestell hinten, komplett / Gearbox with bogie rear, complete	51847-109	14
Radsatz ohne Haftreifen (2 Stck.) / Wheelset w/o friction tyres (2 pcs.)	51845-110	9
Radsatz mit Haftreifen (2 Stck.) / Wheelset with friction tyres (2 pcs.)	51845-111	9
Drehgestell mit Kleinteile, vorne / Bogie with small parts, front	51847-112	11
ET aus unserem Standard-Programm (nur AC-version) / Spare parts standard range (only AC version)		
Schleifer mit Schraube / Slider with screw	56111	
PIKO SmartDecoder 4.1 PluX22 mfx / PIKO SmartDecoder 4.1 PluX22 mfx	56401	