

The new to 1980 7740 Intercity 12V Train and 7715 Push Train are among the new train items shown in the 7777 Train Ideas Book, the cover of which is shown here. There are many new gray train track era (1980-90) items that TLG produced to make the LEGO Train System look more realistic and functional.

XX.0 GRAY TRACK 4.5V, 12V & PUSH LEGO TRAIN SYSTEM (1980-90).

TLG made major changes from 1979-80. Besides starting 4 digit set numbers, TLG also changed the LEGO Train System from blue tracks and white rail ties, to gray clip-on tracks and dark gray rail ties. This was also in addition to an entire new set of trains, as well as a new series of electrical motors, transformers, switches and signals.

The 4.5V series of trains were sold in most all countries, although it was at least until the mid 1980s that any 4.5V or push trains were sold in the USA. 4.5V and push trains were also sold in Canada, continental Europe, Britain, Australia, and Asia. The number of trains, however, was very limited in USA/Canada.

The 12V train system were now sold beyond continental Europe. This included sales in Britain, Australia, and Asia. However, 12V trains were never sold in USA/Canada.

The new trains of 1980-90 were more realistic looking, with more specialty parts, than those of 1969-79. This introduction of many new LEGO train parts greatly increased the number of service packs that were available mainly in continental Europe, Britain, Australia and Asia to supplement the expanding Train System.

XX.1 LEGO Gray Track Push and 4.5V Train System (1980-90).

The LEGO gray track push and 4.5V Train System was introduced in 1980. These sets contained more realistic train locomotives and train cars than the earlier blue track era. All of the train cars used in this system could also be used with the 12V trains.

The 4.5V trains contained the 4.5V motor that was to be built into the locomotive. The second wagon in the set was always a pre-assembled box car, and contained the battery box, with cables to be connected to the locomotive motor. The first 4.5V train introduced in 1980 was a cargo train, as was the second 4.5V train introduced in 1985.

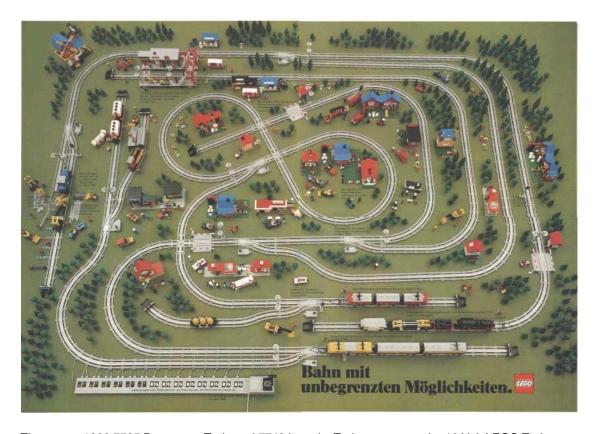
Push trains contained no motor in the locomotive and no prebuilt battery wagon. The first push train introduced in 1980 was a passenger train, as was the second push train introduced in 1985.

All non electrical train cars could be used in either a push train, a 4.5V train, or in a 12V train system.

Although the push train and 4.5V trains had many items (such as train cars) in common with the 12V trains, it was the 12V trains that had many extra features, such as better lighting devices, switches, electric lamp posts and more elaborate crossings that made the 12V trains more elaborate and realistic for a train layout.

By the early 1990s, both the 4.5V and 12V trains were replaced by a new electric 9V train system.

The new 4.5V Train System trains had a separate wagon car that could house three 1.5V batteries. These battery train cars were sold as solid built models, and were not made of individual LEGO parts.



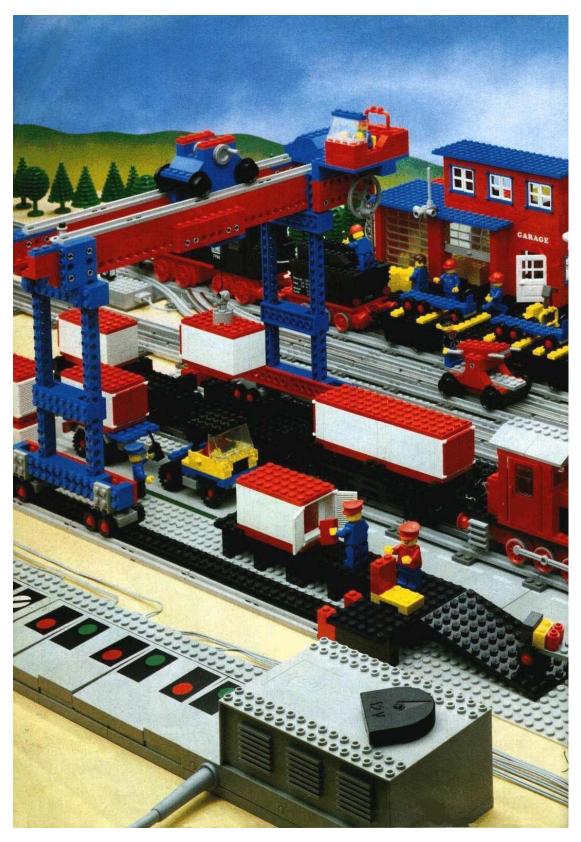
The new to 1980 7725 Passenger Train and 7740 Intercity Train are among the 12 Volt LEGO Train items shown in this early 1980s German contest poster. The reverse side of this poster shows many of the 12 Volt trains, as well as a corner to be cut out to mail in for a contest. Of course, that would have ruined the image on the reverse side, so it's doubtful if very many of these were cut up.

XX.2 LEGO Gray Track 12V Electric Train System (1980-90).

The 12V train system was also overhauled in 1980. As with the 4.5V and push trains, the color of the tracks changed from blue to gray, and the rail ties switched from white to dark gray.

One of the major changes was to the 12V transformers. The new transformers were connectible to control switches, which included remotely controlled wagon de-couplers, signals, points and level crossings. These function features could all be connected into one long stream of control functions.

The new 12V train models had a more realistic appearance. They included longer carriage and wagon bodies, which required swivel bogies. Even the train windows looked much more realistic, with 2 stud and 4 stud wide train windows that appeared to open vertically (but never actually functioned that way). There were also new wheels and accessories that made the train system much more lifelike.



In 1980, 12V trains had the utility functions streamlined, by connecting them to the 12V transformer.

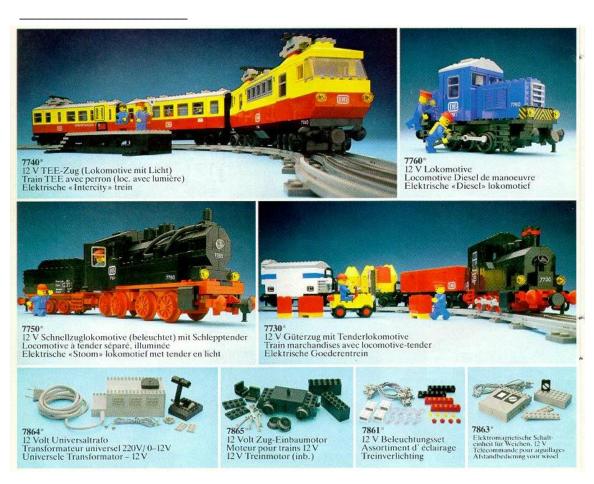
XX.3 LEGO Gray Track Train System Sets & Parts Packs (1980-90).

1980-90 LEGO Gray Track Train System Sets - Numbering System

Set Numbe	er Description	Year Intro	Where Sold *
#7710	Push Passenger Steam Train Set	1980	EU, CAN, UK, AUS
#7715	Push Passenger Steam Train Set	1985	EU, CAN, UK, AUS, AS
#7720	4.5V Diesel Freight Train Set	1980	EU, CAN, UK, AUS, AS
#7722	4.5V Steam Freight Train Set	1985	ALL
#7725	12V Electric Passenger Train Set	1981	EU, UK, AUS, AS
#7727	12V Steam Freight Train Set	1983	EU, UK, AUS
#7730	12V Electric Freight Train Set	1980	EU, UK, AUS, AS
#7735	12V Diesel Freight Train Set	1985	EU, UK, AUS, AS
#7740	12V Inter-City Passenger Train Set	1980	EU, UK, AUS, AS
#7745	12V Express Passenger Train Set	1985	EU, UK, AUS, AS
#7750	12V Steam Locomotive/Tender Set	1980	EU, UK, AUS, AS
#7755	12V Diesel Locomotive Set	1983	EU, UK, AUS
#7760	12V Diesel Shunter Locomotive Set	1980	EU, UK, AUS, AS
#7810	Push Steam Locomotive Set	1980	EU
#7813	Shell Tanker Wagon Set	1986	EU
#7814	Crane Wagon with Container Set	1980	EU, UK, AUS, AS
#7815	Passenger/Sleeping Wagon Set	1983	EU, UK, AUS
#7816	Shell Tanker Wagon Set	1980	EU, UK, AUS, AS
#7817	Crane Wagon Set	1985	EU, UK, AUS, AS
#7818	Passenger Wagon Set	1980	EU, UK, AUS, AS
#7819	Postal Container Wagon Set	1983	EU, UK, AUS
#7820	Mail Wagon Set	1980	EU, UK, AUS, AS
#7821	Maintenance Wagon Set	1983	EU, UK, AUS
#7822	Railway Station Set	1980	EU, UK, AUS, AS
#7823	Container Loading Crane Set	1986	EU
#7824	Railway Station Set	1983	EU, USA, UK, AUS
#7834	Manual Level Crossing Set	1980	EU, UK, AUS, AS
#7835	Manual Level Crossing Set	1985	EU, UK, AUS, AS
#7838	Freight Loading Depot Set	1983	EU, UK, AUS
#7839	Car Transport Platform Set	1986	EU
#7850	8 Straight Rails Set	1980	ALL
#7851	8 Curved Rails Set	1980	ALL

#7852	Left/Right Points Set	1980	ALL
#7853	Crossing Tracks Set	1980	ALL
#7854	12V Electric 8 Straight Rails Set	1980	EU, UK, AUS, AS
#7855	12V Electric 8 Curved Rails Set	1980	EU, UK, AUS, AS
#7856	12V Electric Left/Right Points Set	1980	EU, UK, AUS, AS
#7857	12V Electric Crossing Tracks Set	1980	EU, UK, AUS, AS
#7858	12V Remote Control Right Points	1980	EU, UK, AUS, AS
#7859	12V Remote Control Left Points	1980	EU, UK, AUS, AS
#7860	12V Remote Control Signal Set	1980	EU, UK, AUS, AS
#7861	12V Lighting Set	1980	EU, UK, AUS, AS
#7862	12V Remote Control Decoupling Set	1981	EU, UK, AUS, AS
#7863	12V Magnetic Remote Control Unit	1980	EU, UK, AUS, AS
#7864	12V Transformer Set	1980	EU, UK, AUS, AS
#7865	12V Train Motor Set	1980	EU, UK, AUS, AS
#7866	12V Electric Level Gate Crossing	1983	EU, UK, AUS, AS
#7867	12V Train Light Posts Set	1983	EU, UK, AUS, AS

* - EU = Continental Europe USA = USA CAN = Canada UK = Great Britain & Ireland AUS = Australia AS = Asia

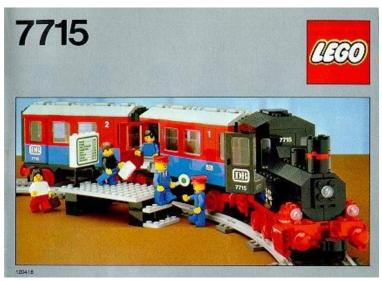


Some of the new 12V Train System LEGO sets and packs as found in the 1980 European Catalog.



#7710 - LEGO Push Passenger Steam Train One of the new 1980 train sets, this comes with enough gray track for a circular layout, 5 minifigs with printed torsos, 7 pair of red train wheels, wide and narrow blue train windows

(clear glass) and blue/yellow train doors. (unique to this set). The sticker sheet in this set comes in 2 variations.



#7715 - LEGO Push Passenger Steam Train -

This 1985 train set comes with enough gray track for a circular layout, 5 minifigs with printed torsos, 7 pair of red train wheels, red wide and red or black narrow train windows (clear glass) and black or red/blue train doors, and a sticker sheet.



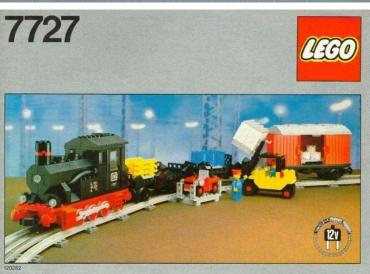
#7720 - LEGO Diesel 4.5V Freight Train - One of the new 1980 train sets, this comes with enough track for an oval layout, with a level crossing and signal. This set also comes with a 4.5V motor and blue battery box wagon, 6 minifigs with printed torsos, 6 pair of red train wheels (plus 2 more pair in the battery box car), red wide and narrow train windows and train doors, all with clear glass). Also included are 2x2 red and 1x4x3 yellow windows, and a sticker sheet.



#7722 - LEGO Steam Freight Train - This 1985 train set comes with enough gray track for an oval layout and a train signal. This set comes with a 4.5V motor and red battery box wagon, 3 minifigs with printed torsos, 4 pair of black and 2 pair of red train wheels, a pair of black and a pair of yellow/red train doors (clear glass), 2 narrow yellow and 2 narrow black train windows with glass, and a sticker sheet.



#7725 - LEGO Electric
Passenger Train - This
1981 train set comes with
enough gray track for a
circular layout (including
electric rails), 1 minifig with
printed torso, 6 pair of black
train wheels, an electric
motor with 4 attached black
train wheels, red wide and
narrow train windows (clear
glass), red train doors, a pair
of 6 stud wind clear
windscreens, and a sticker
sheet.



#7727 - LEGO Steam
Freight Train - This 1983
train set comes with enough
gray track for an oval
layout, 2 minifigs with
printed torsos, 6 pair of
black and 1 pair of red train
wheels, an electric motor
with 4 attached red train
wheels, 2 black train doors
with clear glass, 2 1x2x2
black classic windows,
sliding red doors, lots of
train specialty parts, and a
sticker sheet.



#7730 - LEGO Electric Freight Train - This 1980 train set comes with enough gray track for an oval layout, 2 minifigs with printed torsos, 6 pair of black and 1 pair of red train wheels, an electric motor with 4 attached red train wheels, 2 black train doors with clear glass, 2 1x2x2 and 2 1x1x2 black classic windows, 4 white utility doors, yellow macaroni bricks and cones, lots of train specialty parts, and a sticker sheet.



#7735 - LEGO Diesel Freight Train - This 1985 train set comes with enough gray track for an oval layout, 2 minifigs with printed torsos, 7 pair of black train wheels, an electric motor with 4 attached black train wheels, 2 yellow and 2 yellow/red train doors with clear glass, 2 large yellow train windows with clear glass, 2 yellow sliding utility doors, a blue and a white bicycle, lots of train specialty parts, and a sticker sheet.



#7740 - LEGO Electric **Inter-City Train** - This very popular 1980 train set comes with enough gray track for a large oval layout (including electric rails), 10 minifigs, 12 pair of black train wheels, an electric motor with 4 attached black train wheels, 6 pair of yellow/red train doors, 18 large and 2 small yellow train windows with clear glass, 10 gray 1x2x2 classic windows, a pair of clear 6 stud wide windscreens, lots of train specialty parts and a sticker sheet.



#7745 - LEGO Express Passenger Train - This 1985 train set comes with enough gray track for a large oval layout (including electric rails), 10 minifig with printed torsos, 12 pair of black train wheels, an electric motor with 4 attached black train wheels, 4 pair of red train doors with white stripes, 12 large and 4 small black train windows with clear glass, 4 black 1x4x3 windows, 4 clear 6 stud windscreens, lots of train specialty parts a sticker sheet.



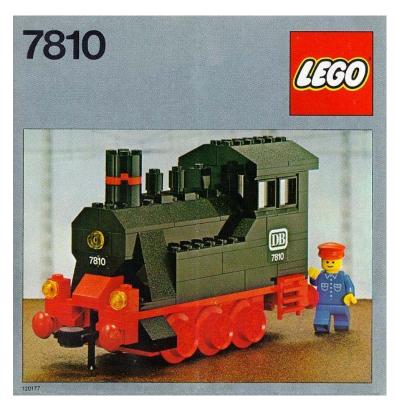
#7750 - LEGO Steam
Locomotive/Tender - This
1980 train set comes
without track. It comes
with 2 minifigs with printed
torsos, 4 pair of large red
and 1 pair of small red train
wheels, an electric motor
with 4 attached red train
wheels, 1 pair of black train
doors, 2 classic 1x2x2 and 4
classic 1x1x2 windows, lots
of train specialty parts a
sticker sheet. This train has
the motor in the tender.



#7755 - LEGO Diesel Locomotive - This 1983 train set comes without track. It comes with 1 minifig with printed torso, 4 pair of black train wheels, an electric motor with 4 attached black train wheels, 1 pair of red train doors with clear glass, two 6 stud wide windscreens, lots of train specialty parts a sticker sheet.



#7760 - LEGO Shunter Locomotive - This 1980 train set comes without track. It comes with 2 minifigs with printed toros, 1 pair of black train wheels, an electric motor with 4 attached black train wheels, 1 pair of blue train doors with clear glass, 2 classic 1x3x2 and 2 1x2x2 blue windows, lots of train specialty parts a sticker sheet.



#7810 - LEGO Push Steam Locomotive Set - This 1980 set comes with 4 rare 1x2x2 black windows, 1 engineer minifig with printed torso, 3 pair of red spoked locomotive wheels, a pair of buffers and hooks, a lot of black sloped bricks of various sizes, and a sticker sheet.



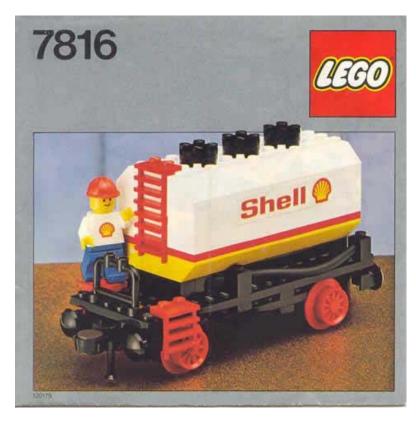
#7813 - LEGO Shell
Tanker Wagon Set
Train - This 1986 set
includes one minifig with
printed torso, 2 pair of
black train wheels, black
string (hose), and enough
white and yellow slopes
and inverse slopes to build
3 tanks. This set also
comes with a pair of train
buffers, couplings and a
sticker sheet.



#7814 - LEGO Crane
Wagon with Container
Set - This set contains 2
minifigs with printed
torsos, a 6x28 train base, a
pair of buffers and
couplings, a yellow winch
with crane hook and rope,
and 2 gray signal masts
for the crane.



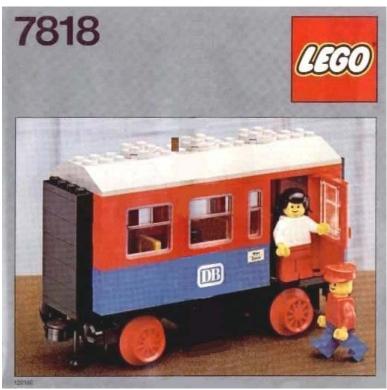
#7815 - LEGO
Passenger/Sleeping
Wagon Set - This 1983
set contains 2 minifigs,
a 6x28 train base, a pair of
buffers and couplings, 4
pair of black train wheels,
2 pair of yellow/red train
doors with clear glass, 6
narrow and 4 wide train
windows with clear glass,
gray roof double slopes,
and 4 pair of sleeping car
printed 1x2 white tiles.



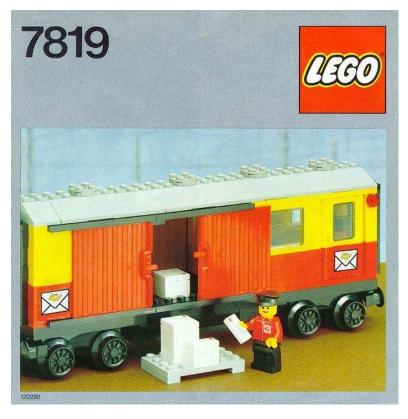
#7816 - LEGO Shell Tanker Wagon Set This 1980 set includes 1 minifig with printed torso, a 6x16 black train base, 2 pair of red train wheels, a pair of buffers and couplings, sloped red and yellow bricks, and a sticker sheet.



#7817 - LEGO Crane Wagon Set - This 1985 set includes a minifig with printed torso, a 6x28 black train base, 4 pair of black train wheels, a pair of black bogie plates, a pair of buffers and couplings, a red winch, and lot of round bricks in various sizes.



#7818 - LEGO
Passenger Wagon Set This 1980 set contains 2
minifigs, a pair of
buffers and couplings, 2
pair of red train wheels,
a pair of red/blue train
doors with clear glass, 2
narrow and 4 wide red
train windows with clear
glass, gray roof slopes,
and a sticker sheet.



#7819 - LEGO Postal Container Wagon Set -

This 1983 set includes a minifig with printed torso, a 6x28 black train base, 4 pair of black train wheels, a pair of black bogie plates, a pair of buffers and couplings, a pair of yellow/red train doors with clear glass, 2 wide yellow train windows with clear glass, 4 vertical sliding red utility doors, double sloped gray slopes, and a sticker sheet.



#7820 - LEGO Mail Wagon Set - This 1980 set contains 2 minifigs, one with printed torso, a 6x28 black train base, 4 pair of black train wheels, a pair of black bogie plates, a pair of buffers and couplings, 2 pair of red train doors with clear glass, 4 narrow and 2 wide red train windows with clear glass, 4 swinging red utility doors, gray slopes, and a sticker sheet.



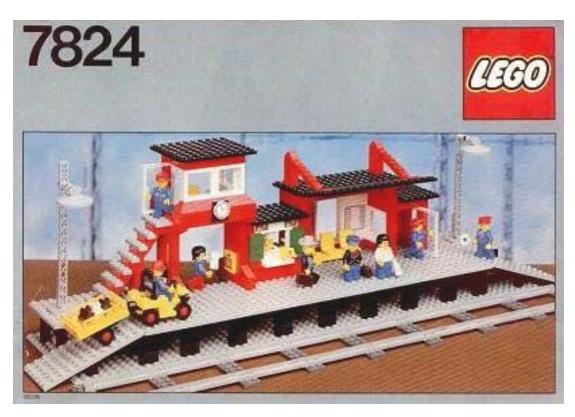
#7821 - LEGO
Maintenance Wagon
Set - This 1983 set
contains 2 minifigs with
printed torsos, a pair of
buffers and couplings, 2
pair of black train
wheels, 4 black
stanchions, and a train
mast and base, with
lamp.



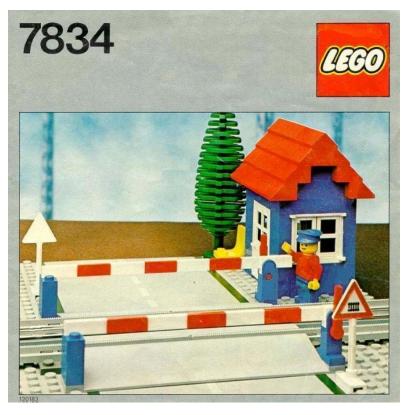
#7822 - LEGO **Railway Station Set** - This 1980 set contains 3 minifigs with printed torsos, 8 gray straight rails, 2 gray train masts with 4 lamps, a large amount of red bricks and gray plates, and town windows and doors in various colors, and a pair of sticker sheets.



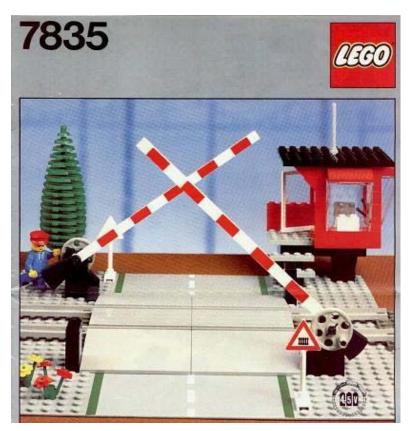
#7823 - LEGO
Container Loading
Crane Set - This
1986 set contains 2
minifigs with
printed torsos, 8
gray straight rails, 2
pair of black train
wheels, a straight
32x32 road plate,
bricks, plates and
Technic parts, clear
windscreens, and a
sticker sheet.



#7824 - LEGO Railway Station Set - This 1983 set included 9 minifigs with printed torsos designs, a large number of minifig accessories, a large number of gray plates and red and black bricks, white train windows, white building doors and windows, 2 train masts with lights, 8 gray straight rails with ties, many small plates and sloped bricks, and other small specialty and vehicle parts, and a sticker sheet.



#7834 - LEGO Manual Level Crossing Set -This 1980 set contains 1 minifig with printed torso, a 32x32 straight road plate, level crossing and rail insert cap, 4 gray straight rails, a large Cypress tree, a pair of rail crossing tall road signs, two rail crossing gates, and a small building made of blue bricks with red sloped roof and a white door and red windows.



#7835 - LEGO Manual Level Crossing Set -This 1985 set contains one minifig with printed torso, a 32x32 straight road plate, a level crossing and rail insert cap, 4 gray straight rails, a large Cypress tree, a pair of rail crossing tall road signs, two rail crossing gates, and a small building made of red and black bricks, a pair of windscreens and a white door.

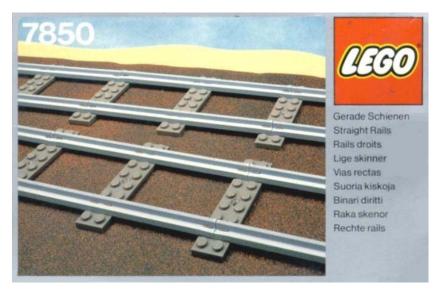


#7838 - LEGO Freight Loading Depot Set - This set includes 3 minifigs with printed torsos, a 32x32 baseplate (with dots pattern), 5 black stanchions, several clear windscreens, a red winch, a yellow digger bucket, 4 red tipper ends, 4 gray straight rails, 2 pair of black train wheels, and lots of miscellaneous bricks and plates for building the blue depot building with white windows and a white door.

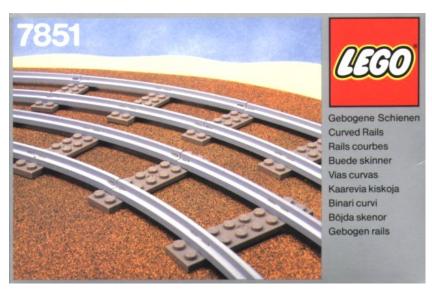


#7839 - LEGO Car Transport Platform Set -

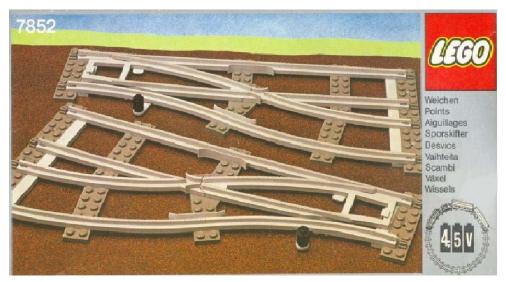
This 1986 set contains 2 minifigs with printed torsos, a 32x32 gray baseplate, 4 black stanchions, lots of gray and black plates, red fences, 4 gray straight rails, a pair of black train wheels, several different car and building windscreens, a road sign, and enough black and red bricks to build the depot, with white window and door.



7850 - LEGO 16 Straight Rails Set -This 1980 parts pack contains 16 straight gray rails, and 16 dark gray sleeper plates. Electric rails could be inserted between the tracks to make this a 12V system. The box style for this set has changed over the years.



7851 - LEGO 16 Curved Rails Set -This 1980 parts pack contains 16 curved gray rails (8 inner and 8 outer rails), and 16 dark gray sleeper plates. Electric rails could be inserted between the tracks to make this a 12V system. The box style for this set has changed over the years.



7852 - LEGO Right and Left Points Set - This 1980 introduced parts pack was only for push and 4.5 V trains. No electric rails could be inserted into these tracks. The box for these parts changed slightly over the years.



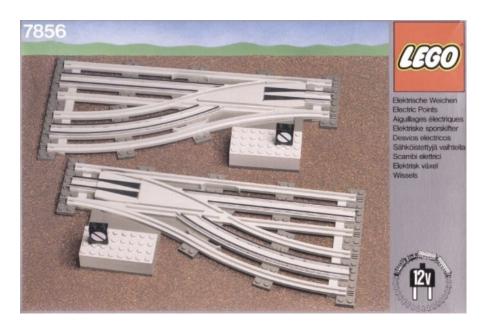
7853 - LEGO Crossing Set - This 1980 introduced parts pack was only for push and 4.5V trains. No electric rails could be inserted into these tracks. The box for these parts changed slightly over the years.



#7854 - LEGO 12V Straight Rails Parts Pack - This 1980 train parts pack was used to upgrade 4.5V or push train type rails to 12V electric rails. The set contained 8 rails.



#7855 - LEGO 12V Curved Rails Parts Pack - This 1980 train parts pack was used to upgrade 4.5V or push train type rails to 12V electric rails. The set contained 8 rails.



#7856 - LEGO 12V Left and Right Points Parts Packs - This 1980 train parts pack contains a left and a right point with local switches.



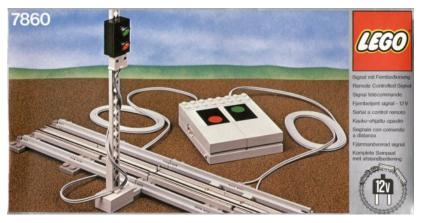
#7857 - LEGO 12V Electric Crossing Parts Packs - This 1980 train parts pack contains one crossing..



#7858 - LEGO 12V Remote Control Right Points Parts Packs - This 1980 train parts pack contains a right point with a remote control switch and lots of cable.



#7859 - LEGO 12V Remote Control Left Points Parts Packs - This 1980 train parts pack contains a left point with a remote control switch and lots of cable.



#7860 - LEGO 12V Remote Control Signal Parts Packs This 1980 train parts pack contains remote control switch and lots of cable, a signal stand, and isolating electric straight track (with isolation point either in the middle or

near one end).



#7861 - LEGO 12V Train Car Lighting Parts Pack - This 1980 train parts pack contains 12V lighting bricks and cables for locomotives and coaches.



#7862 - LEGO 12V
Train Control
Decoupling Parts
Pack - This 1981
train parts pack
contains 12V remote
decoupling switches,
a decoupler base, a
sleeper plate, as well
as connectors, and
plenty of cable.



#7863 - LEGO 12V
Train Magnetic
Remote Control Unit
Parts Pack - This 1980
train parts pack contains
a 12V remote control
points motor for the
#5856 right/left points
switches. This pack
contains a control switch
motor, remote controls,
connectors, and plenty of
cable.



#7863 - LEGO 12V Train Transformer and Controller Parts Pack -

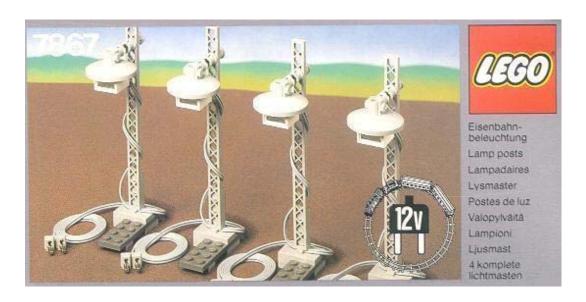
This 1980 train parts pack contains a 12V transformer and controller, along with electric cable and plug. This unit can also be used with the #880 Technic 12V motor. This pack also contains a speed throttle, several Technic gears, some connectors, and plenty of cable.



#7865 - LEGO 12V Train Motor Parts Pack - This 1980 train parts pack contains a 12V train motor with 4 attached black wheels, an extra pair of motor wheels, weights, connecting rods, and gray train wheel rims.



#7866 - LEGO 12V
Electric Level Gate
Crossing Set - This
1983 train set pack
contains a 12V train
gate crossing with
remote controlled
flashing signals, gates,
a 32x32 straight road
plate, a flashing light
unit, a minifig with
printed torso, and
enough LEGO parts
to build a signal
crossing building.



#7867 - LEGO 12V Electric Lamp Post Parts Pack - This 1983 train set pack contains enough parts to build 4 electric light posts, as well as the cable and connectors in order to light them up.

XX.4 LEGO Gray Track Train System Service Packs (1980-93).

The push trains, 4.5V trains and 12V trains all came with a large assortment of accessories that were available either at the local LEGO retailer, or via mail-order, depending on the country of origin.

These service pack parts were originally sold loose from retailer boxes, but later they were replaced by clear plastic service packs that were either hung up on rods, or kept in service pack boxes. See the chapter on Individual and Service Pack sales for more information about train and other service accessories.

These accessories were sold mainly thru mail order in Britain and Australia, as well as Italy and the Netherlands. But other countries, such as Germany and Austria sold them directly from the retailers. Only a few of the late 1970s and 1980s LEGO catalogs showed the Service Pack selections. Often a visit to the LEGO retailer was required to inquire about getting service accessories, either thru mail-order or directly from retailer boxes or display stands.



Images of Train Service Pack items from a 1981 German Catalog that could be purchased separately

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