PERFORMANCE
UNIVERSAL SPARE PARTS

Controller

Racing

OXIGEN
SLOT.IT DIGITAL

Slot Cars Accessories
1/32 scale
Ever since its foundation in 1998, Slot.it has revolutionized the slot car racing world establishing itself as the reference (and the most copied) brand for upgrade parts and competition slot cars.
The HRS chassis is a fully configurable, universal plastic chassis for slot cars. It comprises four main parts: main chassis, front chassis, motor mount, and body mounting means.

ADJUSTABLE WHEELBASE
The front chassis can be positioned freely within a wheelbase between 64 and 90 mm.

SELECTABLE FRONT AXLE POSITION
The front axle can be placed in one of two possible positions, one of which completely adjustable, making it easy to adjust the distance from the pickup.

FLEXIBLE ASSEMBLY SYSTEM
The chassis and the body can be joined with either four mounting posts and cups (HRS1 style), two three-posts sidebars, or, on some cars, where possible, with the car’s own screw holes.
Spare Parts

**CH33b**
*Sidewinder HRS2 Starter Kit chassis*

**CH38**
*Main Universal HRS2 chassis*

**CH36**
*Chassis-to-body HRS2 connecting cups and spare parts*
**Spare Parts**

- **CH42**
  - Clips chassis-to-body HRS2
  - connecting cups

- **CH20**
  - HRS Body to chassis adaptor cups (4X)

- **CH57b**
  - Body-to-chassis HRS2 adapter

- **SP29**
  - LMP Copper braid - 8x

- **SP19**
  - Copper braid - 1 m

**Pickups**

- **CH88**
  - Clip racing pickup rev. B
  - Standard Slot.it LMP models

- **CH17**
  - Pickup short shaft

- **CH10**
  - Screw universal Pickup

- **CH84**
  - Screw LMP pickup
  - for wood track

- **CH85**
  - Screw racing pickup
  - for standard Slot.it models

- **CH06**
  - Clip racing pickup rev. B
  - Standard Slot.it models

- **CH07**
  - Pickup long shaft

- **SP18**
  - Tin plated Copper braid - 1 m
**NEW**

**CH50**
SCX digital adapter for HRS2 chassis

**SP07**
Spacers for Step3 Chassis

**CH72**
Plastic retainer nuts (6x)

**CH79**
Chassis common parts

**Polo m**
Slot.it Polo - Shirt for Man  
S / M / L / XL / XXL

**Polo w**
Slot.it Polo - Shirt for Woman  
S / M / L

*Download CH50 instructions from www.slot.it*
Slot.it motor mounts can satisfy all tastes and needs: can inline, endbell inline, sidewinder, long inline, Anglewinder.

Further, for each type of mount, a wide variety of ‘offsets’ can be chosen.

‘Offset’ is the vertical difference, in mm, between the positions of the rear axle and the motor shaft.

In the ‘0.0’ versions the motor shaft and the rear axle lie on the same plane, whereas in the ‘offset’ versions, unique to Slot.it, the rear axle is offset upwards, thus lowering the center of gravity of the car and increasing the magnetic traction which either the car magnet or the motor exert on the track.

The offset distance can be 0.5 or 1.0mm in most cases.

In September 2011, for sidewinder motors, a new 0.75mm offset motor mount was launched.

Another advantage of the ‘offset’ technology is that, when used jointly with wheels of 17mm of diameter, the wheels themselves stay higher in the bodywork, with a more realistic appearance.

Another unique feature of the Slot.it motor mount are the self-aligning gimbal bushings.

Traditional cylindric bushings cannot compensate for chassis torsion and bad alignment; Slot.it spherical bushing self orient themselves to guarantee the minimum possible friction and can be made with optimal tolerances to eliminate excessive play.

### OFFSET DESCRIPTION

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Motor mounts

Box Stock Slot.it models

**Group C**

- Slot.it models (2012 - 20xx)
- Offset 0.5mm

**Classic**

- Slot.it models (2011 - 20xx)
- Offset 0.5mm

**GT**

- Slot.it models (2012 - 20xx)
- Offset 0.5mm

**LMP**

- Slot.it models (2012 - 20xx)
- Offset 0.5mm

**GT - LMP**

- Slot.it models (2012 - 20xx)
- Offset 1.0mm

**MEDIUM**
Motor mounts OFFSET 0.0 mm

- **CH29**
  - **Anglewinder** for Boxer / Flat-6 motor
  - **HARD**

- **CH61**
  - **EVO6**
  - **Anglewinder** for Boxer / Flat-6 motor
  - **HARD**

- **CH13b**
  - **Group C** Slot.it models (2003 - 2012)
  - **OFFSET 0.0mm**

- **CH76**
  - **EVO6**
  - **Anglewinder** for Boxer / Flat-6 motor
  - **MEDIUM**

- **CH48**
  - **Long Inline** for Boxer/Flat motor
Motor mounts OFFSET 0.5 mm

- **EVO6 CH60b**
  - Anglewinder for Boxer / Flat-6 motor
  - OFFSET 0.5mm

- **EVO6 CH60**
  - Anglewinder for Boxer / Flat-6 motor
  - OFFSET 0.5mm

- **EVO6 CH75**
  - Anglewinder for Boxer / Flat-6 motor
  - OFFSET 0.5mm

Motor mounts OFFSET 0.75 mm

- **EVO6 CH68**
  - Sidewinder for V12 motor Ø 18 spur gear
  - OFFSET 0.75mm

- **EVO6 CH69**
  - Sidewinder for V12 motor Ø 18 spur gear
  - OFFSET 0.75mm
Motor mounts OFFSET 1.0 mm

CH30
Anglewinder for Boxer / Flat-6 motor OFFSET 1.0 mm

CH82
Anglewinder for Boxer / Flat-6 motor OFFSET 1.0 mm

BOX STOCK PART
SEE PAGE 15

CH74
GT - LMP Slot.it models (2012 - 20xx) OFFSET 1.0 mm

CH64
Sidewinder for V12 motor Ø 18 spur gear OFFSET 1.0 mm

CH65
Sidewinder for V12 motor Ø 18 spur gear OFFSET 1.0 mm

CH49
Long inline for Boxer/Flat motor OFFSET 1.0 mm

CH24b
GT Slot.it models (2004 - 2011) OFFSET 1.0 mm
Motor mounts

Conversion Kit OFFSET 0.0 mm

KK11
Anglewinder Conversion Kit offset 0.0mm
Z30 AW Crowns + Z11 Ø 6,5mm Pinion

Conversion Kit OFFSET 0.5 mm

KK13b
Sidewinder Conversion Kit offset 0.5mm
Z34 Ø 18 SW Crowns + Z11 Ø 6,5mm Pinion

Conversion Kit OFFSET 1.0 mm

KK12b
Sidewinder Offset Conversion Kit
Z34 Ø18 SW Crowns + Z11 Ø 6,5mm Pinion

KK10
Anglewinder Conversion Kit
Z30 AW Crowns + Z11 Ø 6,5mm Pinion

KK14b
Flat Anglewinder Offset Conversion Kit OFFSET 1.0mm
Z25 Ø15 AW plastic Crown + Z11 Ø 6,5mm Pinion
The **Slot.it** motors have three different shapes: traditional 'S' can, longer 'Boxer' type, or Slot.it's own 'Flat-6'.

'Inline' means the motor shaft is perpendicular to the rear axle.

An 'inline' motor can be either 'endbell inline' or 'can inline' if the pinion is either mounted near the plastic endbell, or on the other end of the motor, the metal can.

'Sidewinder' means that the motor runs parallel to the rear axle, i.e. transversely, and the pinion side discriminates between a 'endbell sidewinder' or a 'can sidewinder' like it does for inline motors.

The **V12** motors features a double axle, which makes it a universal motor upgrade for cars of most makers, be it endbell or can inline or sidewinder of both types.

Further, a special 'RX' adapter is available, to upgrade cars with such a 'RX' motor to a V12 one.

The **Boxer** type motors are an ideal upgrade for the bigger motors found on some slot cars. They can also be used as inline or 'anglewinder'.

The **FLAT-6** is a revolutionary new concept in slot car racing motors. It is a custom-built Slot.it motor designed both to be compatible with the existing Boxer/NC type motor pods, and to take advantage of a lower center of gravity when used in the special Slot.it motor pods, due to its 'slim' form, that also make it possible using it in anglewinder configuration under streamlined LMP racers like Slot.it's Audi R8C, Lola LMP and Audi R18 TDI.

It comes with two magnet variants: standard, which is the strong magnet found in the V12/3 and Boxer/2, and Race 'R', with a custom built magnet to pack outstanding torque and braking in the motor’s flat case.
The Boxer/2 is the most powerful Slot.it motor.

**MN08C**
**Boxer/2**
- 21.500 rpm
- 340g*cm @12V

**MN08H**
**Boxer/2**
- 21.500 rpm
- 340g*cm @12V

**MN09CH**
**Flat-6 20.5K**
- 20.500 rpm
- 200g*cm @12V
- Double Side - open + closed

**MN11H-2**
**Flat-6R 22K**
- 22.000 rpm
- 220g*cm @12V
- High magnetic traction
- Front shaft length 7.3mm

**MN13CH**
**Flat-6S 22.5K**
- 22.500 rpm
- 230g*cm @12V
- Double Side - open + closed

**MN14H**
**Flat-6RS 25K**
- 25.000 rpm
- 240g*cm @12V - different opening case

**NO PINION**

*GT Racing*

*European GR. C Championship 2013 Motor*
The V12/3 is the 'S' type motor family from slot.it. It provides superb torque, braking and power packaged in 'S' can motors that are also very easy to drive.

The V12 motor is an instant drop-in upgrade for most cars, thanks to its double shaft; several versions are available with the proper pinion mounted according to which car the upgrade is planned for, but any V12 motor can be changed into a different configuration just by changing pinion side and/or dimension: for example, a motor in a Scalextric configuration can be changed to an inline standard Slot.it just by changing the pinion side.

- **MX**: no pinion version
- **MS**: 9 teeth pinion mounted on the endbell side of the shaft, usually for inline cars.
- **MF**: 11 teeth pinion mounted on the endbell side of the shaft, for most sidewinder cars
- **MN**: 9 teeth pinion mounted on the can side of the shaft, usually for inline cars.
- **MY**: 11 teeth pinion mounted on the case side, for sidewinder cars
- **MX10**: 9 teeth pinion mounted on the can side of the shaft, usually for inline cars.
- **MF10**: 11 teeth pinion mounted on the endbell side of the shaft, for most sidewinder cars
- **MN10**: 9 teeth pinion mounted on the can side of the shaft, usually for inline cars.
- **MY10**: 11 teeth pinion mounted on the case side, for sidewinder cars
- **SP08**: Adaptor V12 to RX shape motor
Pinions

**Pinions**

- **Ø 5.5 mm - Brass**
  - PI08 Inline pinion 8 teeth
  - PI09 Inline pinion 9 teeth
  - PI10 Inline pinion 10 teeth
  - PI11 Inline pinion 11 teeth
  - PIMX Inline mix pinion 8+9+10+11 teeth
  - PI559o15 Pinion 9 tooth
  - PI5510o15 Pinion 10 tooth

- **Ø 6.5 mm - Brass**
  - PS10 Sidewinder pinion 10 teeth
  - PS11 Sidewinder pinion 11 teeth
  - PS12 Sidewinder pinion 12 teeth
  - PS13 Sidewinder pinion 13 teeth
  - PS510e Sidewinder pinion 10 teeth
  - PS511e Sidewinder pinion 11 teeth
  - PS512e Sidewinder pinion 12 teeth
  - PS513e Sidewinder pinion 13 teeth
  - PS5510o15 Sidewinder mix pinion 10+11+12+13 teeth
  - PS5510o15 Sidewinder mix pinion 10+11+12+13 teeth

- **Ø 6.5 mm - Ergal**
  - PS6510e Sidewinder pinion 10 teeth
  - PS6511e Sidewinder pinion 11 teeth
  - PS6512e Sidewinder pinion 12 teeth
  - PS6513e Sidewinder pinion 13 teeth
  - PS6511o15 Anglewinder pinion 11 teeth for long hub crowns

- **Ø 6 mm - Brass**
  - PS6010e Pinion 10 teeth
  - PS6011o Pinion 11 teeth
  - PS6010o15 Pinion 10 tooth
  - PS6010o15 Pinion 10 tooth
  - PS6011o Pinion 11 teeth
  - PS6010o15 Pinion 10 tooth
  - PS6010o15 Pinion 10 tooth
  - PS6010o15 Pinion 10 tooth
  - PS6711o Anglewinder pinion 11 teeth for long hub crowns

- **Ø 6.75 mm - Brass**
  - PS6711o Anglewinder pinion 11 teeth for long hub crowns

- **Possibly the best pinion in the world:**
  - 0.3 grams only, chemically hardened and Teflon coated

- **Ø 6 mm - Internal Ø: 1.5mm**
  - PI6010o Pinion 10 tooth
  - PI6011o Pinion 11 tooth

- **Ø 6 mm - Internal Ø: 1.5mm**
  - PI6010o15 Pinion 10 tooth

- **Ø 6 mm - Internal Ø: 1.5mm**
  - PI6010o15 Pinion 10 tooth

- **Ø 6 mm - Internal Ø: 1.5mm**
  - PI6010o15 Pinion 10 tooth

- **Ø 6 mm - Internal Ø: 1.5mm**
  - PI6010o15 Pinion 10 tooth

- **Ø 6 mm - Internal Ø: 1.5mm**
  - PI6010o15 Pinion 10 tooth
The SLOT.IT extractor/press is made up of:

**Main body (1)** entirely made with anodized aluminium alloy designed to work with any slot electrical motor, from the most common short case to the more sophisticated, double long transmission shaft 4WD motors.

The main face was laser marked with a millimetre scale to easily control the insertion of the pinion.

**Counter bushing (6)** made of brass which, before using the tool, must be screwed onto the lower inside part of the main body.

The bushing has two very important functions:
- to centre the double shaft motor perfectly by means of the axle housing hole.
- to keep all those motors that are not equipped with the double shaft centred and, at the same time, safeguard the inner bush of those ‘long can’ motors motor that do not have an axle stub protruding from the can.

**Special steel extraction plate (5)** that fits in the relevant housing in the main body to extract the pinions. Besides being very resistant, this plate has a very thin eyelet located between the motor and the pinion: only 0.7 mm. This allows to extract also the pinions located very close to the motor case without causing any damage to it.

**Multifunction brass tool (2)** which, depending on the operation to be performed, must be inserted in the main body with the plug (steel, interchangeable, Ø1.9mm in order not to damage the pinion hole) downwards, in case of the extractor, or the pinion housing downwards, in case of the press. The pinion housing for this element were designed to house pinions with a diameter ranging from 5.5mm to 7.5mm without damaging them.

**The steel plug (3)** is locked into the brass tool by means of an **M3 grub screw (4)**

**Advancement screw (7)** on whose upper part there is an **ergonomic plastic knob (8)**, while the lower part is suitable to couple perfectly with the tool bevel, reduce friction and allow the press to operate perpendicularly without clearance.
Sidewinder Spur Gears

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<td>34</td>
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<tr>
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Hex screw M2

Inline Crowns

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GO23-bz | 23 | Bronze/Alumin.+Teflon | Ø19 mm |
GO23-al | 23 | Bronze/Alumin.+Teflon | Ø19 mm |
GO24-bz | 24 | Bronze/Alumin.+Teflon | Ø19 mm |
GO24-al | 24 | Bronze/Alumin.+Teflon | Ø19 mm |
GO25-bz | 25 | Bronze/Alumin.+Teflon | Ø19 mm |
GO25-al | 25 | Bronze/Alumin.+Teflon | Ø19 mm |
GO26-bz | 26 | Bronze/Alumin.+Teflon | Ø19 mm |
GO26-al | 26 | Bronze/Alumin.+Teflon | Ø19 mm |
GO27-bz | 27 | Bronze/Alumin.+Teflon | Ø19 mm |
GO27-al | 27 | Bronze/Alumin.+Teflon | Ø19 mm |
GO28-bz | 28 | Bronze/Alumin.+Teflon | Ø19 mm |
GO28-al | 28 | Bronze/Alumin.+Teflon | Ø19 mm |
GO29-bz | 29 | Bronze/Alumin.+Teflon | Ø19 mm |
GO29-al | 29 | Bronze/Alumin.+Teflon | Ø19 mm |
GO30-bz | 30 | Bronze/Alumin.+Teflon | Ø19 mm |
GO30-al | 30 | Bronze/Alumin.+Teflon | Ø19 mm |

GO30-bz | 30 | Bronze/Alumin.+Teflon | Ø19 mm |
GO30-al | 30 | Bronze/Alumin.+Teflon | Ø19 mm |


OFFSET crown
Bronze/Alumin.+Teflon

For OFFSET motor mount
CH24b - CH49

GIX1
Set 24-26-27-28-30 teeth - Bronze insert
# Anglewinder Gears

## ERGAL ANGLEWINDEGER GEAR

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## FLAT ANGLEWINDEGER GEAR LONG HUB

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<td>PA57</td>
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<td>Light Stopper for anglewinder setup</td>
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<tr>
<td>PA25</td>
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<td>Stopper for anglewinder axles</td>
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## NEW

All Gr.C and GT cars can be fitted with either a **Boxer** or a **Flat-6** in angled position (“anglewinder”). LMP models (Lola, Audi R18, Audi R8C), can only be fitted with an angled **Flat-6**.

A spacer, whose thickness should be adjusted according to the displacement of motor and wheels shafts, should be placed between motor mount and crown.

Consider that Flat-6’s shaft lies 1.25mm lower than Boxer’s. As a rule of thumb, if the motor and wheel shafts are at the same height use 0 / 0.10mm spacer, increasing to 0.40mm all the way to 1.0 mm offset chassis with Flat-6 motor (in which case the displacement of shafts is 2.25mm): roughly, 0.17mm spacer every 1mm displacement.
Anglewinder Gears

AVAILABLE GEAR RATIOS

<table>
<thead>
<tr>
<th>pinion</th>
<th>inline crowns</th>
<th>Ø 18 mm</th>
<th>side crown spur gears</th>
<th>Ø 19 mm</th>
<th>anglewinder spur gears</th>
<th>Ø 19 mm</th>
<th>anglewinder long hub crowns</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 5.5</td>
<td>Ø 6.5 mm</td>
<td>Ø 6 mm</td>
<td>Ø 6.75 mm</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
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**Inline crown gears**
- GI23/24/25/26/27/28/29/30 require CH13b/CH70/CH48 motor mount and brass 5,5mm pinions (P108/09/10/11)
- GO23/24/25/26/27/28/29/30 require CH24b/CH49 offset motor mounts and brass 5,5mm pinions (P108/09/10/11)

**Offset crown gears**
- GS1831/32/33/34/35/36 require CH62/CH67 motor mounts and brass 6.5mm pinions (P16510E/6511E/6512E/6513E)

**Ø 18mm spur gears**
- GS1934/36/38 require CH03b motor mount to be used with brass 6.5mm pinions PS10/11/12/13 or Ergal 6,5mm pinions (P16510E/6511E/6512E/6513E)

**Ø 19mm spur gears**
- GS1636 require CH62/CH64/CH65/CH68/CH69 motor mount and 6mm pinions P16010/60120

**Anglewinder gears**
- GA34/36 and GA1626E/1627E/1628E/1629E/1630E/1631E/1832E/1833E/1834E/1835E require CH29/61/30/60/74/75/76 motor mounts and brass 6.5mm pinions PS10/11/12/13 or Ergal 6,5mm pinions P16510E/6511E/6512E/6513E.
- GA1626-Pl/GA1627-Pl/GA1628-Pl/GA1629-Pl/GA1630-Pl require brass 6mm pinions P160110/60120 and 0,75mm spacer PA52. Otherwise require brass 6.5mm pinions PS10/11/12/13 or Ergal 6,5mm pinions P16510E/6511E/6512E/6513E.

**Anglewinder long hub gears**
- GA24LH/26LH require CH29/61/30/60/74/75/76 motor mounts and brass 6.75mm pinions P67110/67120

**Anglewinder Flat gears**
- GA1524-Pl/1525-Pl/1526-Pl require brass 6.5mm pinions (PS10/11/12/13) and 1mm spacer PA51 or Ergal 6,5mm pinions (P16510E/6511E/6512E/6513E) and 1mm spacer PA51.
**ProAxle System**

**NEW**

**KK04b**
**Kit sidewinder**
Z36 Ø19 crown
17.3x9.75mm wheels short hubs

**NEW**

**KK01**
**Kit inline**
Z28 crown - 15.8x8.2mm short hubs wheels

**NEW**

**KK02**
**Kit sidewinder**
Z36 Ø19 crown
15.8x8.2mm wheels short hubs

**NEW**

**KK05**
**Kit sidewinder**
Z34 Ø18 crown
15.8x8.2mm wheels short hubs

**NEW**

**KK07b**
**Kit inline**
Z28 crown - 17.3x9.75mm wheels + 1mm spacers

**NEW**

**KK08**
**Kit inline**
Z27 crown - 15.8x8.2mm plastic wheels long hubs

**NEW**

**KK09c**
**Kit anglewinder**
Z32 crown + Z12 pinion
17.3x9.75mm wheels + 1mm spacers

**NEW**

**KK04**
**Steel ProAxle**
turned ground, polished - 2.38 mm (3/32")
PA01-45 - 45 mm
PA01-48 - 48 mm
PA01-51 - 51 mm
PA01-54 - 54 mm

**NEW**

**PA01-45H**
51 mm
**PA01-54H** - 54 mm

**NEW**

**Steel ProAxle**
turned ground, polished - 2.38 mm (3/32")
for sidewinder
PA01-48R - 48 mm
PA01-51R - 51 mm
PA01-54R - 54 mm

**NEW**

**PA39**
Independent front wheels axle

**NEW**

**SP04**
Motor cable brass eyelets and for indepident front wheels axle (x10)

For Ninco

For Scalextric LMP

For most Scalextric GTs (e.g. Ferrari 360, Ford GT, Camaro)

Reduced center diameter

For old Carrera
Wheels

PA33-Als
Short hub light wheels
Aluminium 1.2g - (2x)

WH1215-Pl
Short hub light wheels Plastic
0.57g + Plastic inserts - (4x)

PA20-Als
F1 hubs + Plastic inserts
BBS type
Aluminium 1.5g - (2x)

PA20-Mg
F1 hubs - Magnesium 1.0g - (2x)

PA24-Als
Short hub light wheels +
Plastic inserts OZ type
Aluminium 1.4g - (2x)

PA24-Alf
Short hub light wheels
double shoulder
(2x)

PA24-Alh
Short hub light wheels
double shoulder holed channel
Aluminium 1.1g (2x)

PA17-Al
Hubs + Plastic inserts OZ type
Aluminium 1.4g - (2x)

PA17-Mg
Short hub light wheels
Magnesium 0.9g - (2x)

PA17-Mq
Short hub light wheels
Magnesium 0.8g - (2x)

WH1183-Mq
Short hub light wheels
Magnesium 0.8g (2x)

WH1210-Pl
Short hub light plastic wheels
- 0.7g (4x)
**Wheels**

**Ø 15.8x10 mm**

- **PA49-Alf**
  Short hub light wheels double shoulder
  Aluminium 1.3g (2x)

- **PA49-Alh**
  Short hub light wheels double shoulder holed channel
  Aluminium 1.2g (2x)

- **WH1184-Mg**
  Short hub light wheels
  Magnesium 0.9g (2x)

**Ø 16.5x8.2 mm**

- **PA43-Als**
  Short hub light wheels + Plastic inserts OZ type · Alu. 1.5g · (2x)

- **PA43-Mg**
  Short hub light wheels
  Magnesium 0.8g · (2x)

- **PA43-Pl**
  Hubs + Plastic inserts OZ type
  Plastic grey · (4x)

- **WH1185-Mg**
  Short hub light wheels
  Magnesium 0.85g · (2x)

**Ø 16.5x10 mm**

- **WH1186-Mg**
  Short hub light wheels
  Magnesium 0.9g · (2x)

**Ø 17.3x8.2 mm**

- **PA18-Als**
  Hubs + Plastic inserts BBS type
  Aluminium 1.6g · (2x)

- **WH1230-Mg**
  Short hub light wheels
  Magnesium · (2x)

**Ø 17.3x9.75 mm**

- **PA62-Als**
  Short hub light wheels
  Aluminium 1.6g · (2x)

- **WH1231-Mg**
  Short hub light wheels - Mag. · (2x)

**Ø 17.3x10 mm**

- **PA19-Al**
  Hubs + 1mm spacers
  Aluminium 1.7g · (2x)

- **PA18-Pl**
  Hubs + Plastic inserts BBS type
  Plastic black · (4x)

- **PA19-Mg**
  Short hub light wheels
  Magnesium 1.05g · (2x)

- **PA19-Pl**
  Short hub light plastic wheels + plastic inserts 0.85g · (4x)
## Hubs

### Hubs for Sponge Tires

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WH1211-Al</td>
<td>Double side wheels for sponge tires - (2x) 13.6x9.5 equivalent Ø15.8mm</td>
</tr>
<tr>
<td>WH1190-Al</td>
<td>Double side wheels for sponge tires - (2x) 14.2x9.5 equivalent Ø16.5mm</td>
</tr>
<tr>
<td>WH1212-Al</td>
<td>Double side wheels for sponge tires - (2x) 15x9.5 equivalent Ø17.3mm</td>
</tr>
</tbody>
</table>

**Compatible with Slot.it wheel inserts**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>PT1209sp30</td>
<td>Sponge tires</td>
</tr>
</tbody>
</table>

### Plastic Inserts

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA09b</td>
<td>Black Plastic inserts BBS type for Ø17.3 wheels (4x) - Nissan R390 type</td>
</tr>
<tr>
<td>PA09s</td>
<td>Silver Plastic inserts BBS type for Ø17.3 wheels (4x) - Porsche 911 GT1 type</td>
</tr>
<tr>
<td>PA09g</td>
<td>Gold Plastic inserts OZ type for Ø17.3mm wheels - (2+2) Audi R18 TDI type</td>
</tr>
</tbody>
</table>

**Pictures may show fully assembled wheels, but inserts are sold separately.**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA60</td>
<td>Plastic inserts BBS type for Ø17.3mm wheels - (4x) McLaren F1 GTR type</td>
</tr>
<tr>
<td>PA56</td>
<td>Plastic inserts BBS type for Ø17.3mm wheels - (4x) Lola type</td>
</tr>
<tr>
<td>PA63</td>
<td>Plastic inserts BBS type for Ø17.3mm wheels - (4x) McLaren M8D type</td>
</tr>
<tr>
<td>PA46</td>
<td>Plastic inserts BBS type for Ø17.3mm wheels - (4x) Sauber C9 type</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA44</td>
<td>Plastic inserts OZ type for Ø15.8mm wheels - (4x) Ford GT40 type</td>
</tr>
<tr>
<td>PA30</td>
<td>Plastic inserts for Ø15.8mm wheels - (4x) - Mazda 787B type</td>
</tr>
<tr>
<td>PA16</td>
<td>Plastic inserts OZ type for Ø15.8mm wheels - (4x) Audi R8C type</td>
</tr>
</tbody>
</table>
Plastic inserts

**Plastic inserts**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA53</td>
<td>Plastic inserts for Ø15,8mm (4x) Ø16,5mm (2x) wheels Lancia LC2-85 type</td>
</tr>
<tr>
<td>PA55</td>
<td>Plastic inserts BBS 80’s type for Ø15,8mm (4x) Ø16,5mm (2x) wheels - Porsche 956/962 type</td>
</tr>
<tr>
<td>PA41</td>
<td>Plastic inserts for Ø15,8mm (4x) Ø14,3mm (2x) wheels Alfa Romeo 33/3 type</td>
</tr>
<tr>
<td>PA45</td>
<td>Plastic inserts for Ø15,8mm wheels (4x) - Lancia LC2-84 type</td>
</tr>
<tr>
<td>PA31</td>
<td>Plastic inserts for Ø15,8mm wheels (4x) - Jaguar XJR type</td>
</tr>
<tr>
<td>PA34</td>
<td>Plastic inserts BBS type for Ø14,4mm wheels (4x) F1 type</td>
</tr>
<tr>
<td>PA03b</td>
<td>Plastic inserts BBS type for Ø15,8mm wheels (4x)</td>
</tr>
</tbody>
</table>

**Tires**

Slot.it provides a comprehensive range of tires for the racer and the scale modeler alike.

There’s a high performance compound for every track surface, and a wide variety of sizes to choose from.

The latest addition are the high performance rubber N22 and the new sponge tires (SP30 compound).

Whenever possible, the sidewall is engraved with a reference number to help tire identification.

<table>
<thead>
<tr>
<th>Tyre Selection Table</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Compound</strong></td>
</tr>
<tr>
<td>C1</td>
</tr>
<tr>
<td>P2 - P3</td>
</tr>
<tr>
<td>P4 - P5 - E1 - C1 - N18</td>
</tr>
<tr>
<td>P6</td>
</tr>
<tr>
<td>S1 - S2</td>
</tr>
<tr>
<td>Z0 - Z1</td>
</tr>
<tr>
<td>F15 - F22 - F30 - N22 - SP30</td>
</tr>
</tbody>
</table>

Pictures may show fully assembled wheels, but inserts are sold separately.

Engraved sidewall

Classic cars replacement tires

Slot.it - Scalextric - Ninco

Carrera, Ninco, Scalextric trademarks belong to their respective owners.
## Wheels and Tyres cross-reference for Slot.it parts

### How to use the cross-reference table:

1. **if you know the code for the tyre:** locate the code in the bottom half of table B, then read the mould code at the top of the same column. If you don’t, search for a small number engraved on the side wall of the tyre - that’s the mould code (old tyres don’t have it).

2. **if you know the code for the wheel:** find its reference letter (A through G) on table A. If you don’t, measure the diameter of the wheel, and read the corresponding code (A through G) on table A.

3. **Cross the reference letter and the tyre mould code to find out the cross-compatibility between your tyre and wheels, and the resulting diameter.**

### Example: you have a PA38 wheel, and a PT19 tyre:

1st step: Table B: search PT19: see that it comes from mould 1096

2nd step: Table A: search PA38: see that it belongs to the “F” family of wheels

3rd step: Table B: crossing “F” with “1096”: resulting diameter is 18.1mm.

### Tyres used on box stock cars

<table>
<thead>
<tr>
<th>Tyres used on box stock cars</th>
<th>312PB, Alfa33 and Matra front, box stock</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT2120C1</td>
<td>Front and rear threaded, Classic tyres (Chaparral, GT40...)</td>
</tr>
<tr>
<td>PT1152C1</td>
<td>Rear LMP box stock</td>
</tr>
<tr>
<td>PT1159C1</td>
<td>Front GT, Gr.C and LMP</td>
</tr>
<tr>
<td>PT1167C1</td>
<td>Rear Gr.C and GT</td>
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</table>

### Tyre Width

All dimensions are in mm

### Reference by mould code/tyre code

<table>
<thead>
<tr>
<th>mould code</th>
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### Reference by compound

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<th>P4</th>
<th>P5</th>
<th>P6</th>
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<th>E1</th>
<th>S1</th>
<th>S2</th>
<th>N22</th>
<th>N18</th>
<th>SP30</th>
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</thead>
<tbody>
<tr>
<td>PT01</td>
<td>PT02</td>
<td>PT03</td>
<td>PT09</td>
<td>PT10</td>
<td>PT11</td>
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<td>PT26</td>
<td>PT27</td>
<td>PT28</td>
<td>PT32</td>
<td>PT33</td>
<td>PT34</td>
<td>PT35</td>
<td>PT36</td>
</tr>
</tbody>
</table>

[= discontinued]
PA02  Bronze bushings - (2x)
PA32  Aluminium bushings
Aluminium+Teflon - (2x)
PA12  Brass bushings
old Carrera - (2x)
PA11  Bronze bushings for Proslot - (2x)
PA27  Bronze bushings
Double side - (4x)
PA28  Machined pulley
Aluminium - (2x)
CH56b  Bronze spherical bushings
Standard Slot.it models - (6x)
PA26  Machined pulley
Plastic CNC - (2x)
CH77  Aluminium End of Run Nuts
(4x)
CH47b  Universal spring suspension kit
PA27  Machined pulley
Double side - (4x)
SP17  Nickel plated brass eyelets
(x10)
SP22  Silicon cables high flexibility (1m)
CN01  Neodimium Super Magnet
for Scalextric - 25x8x2mm
CN02  Neodimium Progressive
Super Magnet for Scalextric
25x8x2,3mm
CN06  HRS chassis Neodimium Magnet
CN07  HRS chassis Race Magnet
CN08  Neodimium Magnet for magnetic
suspension kit - Ø 4x1mm (8x)
CN09  Neodimium Magnet for magnetic
suspension kit - Ø 4x1.5mm (8x)
CN10  Neodimium Magnet for magnetic
suspension kit - Ø 6x1.4mm (8x)
SP23  Tungsten ballast
motor mount
shape 2.5g
SP24  Tungsten ballast
cylinder 6,3x1mm
0.6g
SP25  Tungsten ballast, putty, 10g
SPRINGS FOR CH47B SUSPENSION (x8)
CH55A  Soft springs
CH55B  Medium springs
CH55C  Ultra soft springs
PA58
Hexagonal Screws M2 x 2mm (x10)

PA40
Hexagonal Screws M2 x 3mm (x10)

PA37
Hexagonal Screws M2 x 6mm (x10) for front axle setup

PA50
Hexagonal Screws M2 x 8mm (x10) for front axle setup

PA54
Hexagonal Screws M2 x 10mm (x10) for front axle setup

PA66
Torx T3 grub screw (x10)

PA06
Hexagonal wrench M2 0,95 mm

PA67a
M2 - Hexagonal

PA67b
M2,5 - Hexagonal

PA67c
Torx T3 wrench

PA51
Set of spacers for hubs 1mm (x10)

PA52
Set of spacers for hubs 0,75mm

PA47
Set of spacers for hubs and bushings 0,1 / 0,25mm thick

PA58
Hexagonal Screws M2 x 2mm (x10)

PA40
Hexagonal Screws M2 x 3mm (x10)

PA50
Hexagonal Screws M2 x 8mm (x10) for front axle setup

PA54
Hexagonal Screws M2 x 10mm (x10) for front axle setup

PA66
Torx T3 grub screw (x10)

PA06
Hexagonal wrench M2 0,95 mm

PA67a
M2 - Hexagonal

PA67b
M2,5 - Hexagonal

PA67c
Torx T3 wrench

PA51
Set of spacers for hubs 1mm (x10)

PA52
Set of spacers for hubs 0,75mm

PA47
Set of spacers for hubs and bushings 0,1 / 0,25mm thick

CH54b
Metric screws 2.2x5.3mm chamfered large head (10x)

CH59
Metric screws for suspensions L9mm + L13mm (2+2)

CH28
Set of screws for Cars (8 short - 4 long)

CH51
Metric screws 2.2x8mm Small head (10x). Use for body or in conjunction with CH72

CH52
Metric screws 2.2x8mm Big head (10x)

CH53
Metric screws 2.2x5.3mm Small head (10x)

CH54
Metric screws 2.2x5.3mm Big head (10x)

CH54b
Metric screws 2.2x5.3mm chamfered large head (10x)

CH08
Set of screws for HRS chassis

CH39
Set of screws for HRS2 chassis

CH59
Metric screws for suspensions L9mm + L13mm (2+2)

CH51
Metric screws 2.2x8mm Small head (10x). Use for body or in conjunction with CH72

CH52
Metric screws 2.2x8mm Big head (10x)

CH53
Metric screws 2.2x5.3mm Small head (10x)

CH54
Metric screws 2.2x5.3mm Big head (10x)

CH54b
Metric screws 2.2x5.3mm chamfered large head (10x)

CH08
Set of screws for HRS chassis

CH39
Set of screws for HRS2 chassis
## Cars Accessories

<table>
<thead>
<tr>
<th>Model / Serie</th>
<th>Chassis</th>
<th>Crashproof</th>
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<tbody>
<tr>
<td>Audi R8C</td>
<td>CA01</td>
<td>CS01T-2</td>
</tr>
<tr>
<td>Porsche 956 C LH</td>
<td>CA02</td>
<td>CS02T-60</td>
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<tr>
<td>Porsche 962 C LH</td>
<td>CA03</td>
<td>CS03T-60</td>
</tr>
<tr>
<td>Nissan R390 GT1 / LT</td>
<td>CA04/05/14</td>
<td>CS14T-60</td>
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<tr>
<td>Sauber C9 Mercedes</td>
<td>CA06</td>
<td>CS05T-60</td>
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<td>Jaguar XJR6 / 9</td>
<td>CA07</td>
<td>CS13T-60</td>
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<td>Lancia LC2-84</td>
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<tr>
<td>McLaren F1 GTR</td>
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<td>CS10T-60b</td>
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<td>CS11T-60b</td>
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<td>Audi R8C Reloaded</td>
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<td>Jaguar XJR12</td>
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<td>Ford MK II</td>
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<tr>
<td>Lola B09/B10/B11</td>
<td>CA22</td>
<td>CS22T-60b</td>
</tr>
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<td>Porsche 911 GT1 EV098</td>
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<td>Audi R18 TDI</td>
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<td>Matra MS670 B</td>
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<tr>
<td>Nissan R89 C</td>
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## Transparent parts | Lexan cockpit | White kit | Body kit

<table>
<thead>
<tr>
<th>Transparent parts</th>
<th>Lexan cockpit</th>
<th>White kit</th>
<th>Body kit</th>
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<tr>
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<td>CS02il</td>
<td>CS02b</td>
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<td>CS02il</td>
<td>CS03b1</td>
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<td>CS22il</td>
<td>CS22b1/b2/lc/d1/d2</td>
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<td>CS28V</td>
<td>CS28il</td>
<td>CA28z</td>
<td>CS28b</td>
</tr>
</tbody>
</table>

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**SP09**
Trasparent box

**TM01**
Pitlane Girls

---

Body Kit
Lighting

SP11
Lighting Kit - 2 white front + 2 rear red lights module

SP06
Lighting Kit with brake - SP06 = SP10+SP11

SP16c
Universal Lighting Kit for Analogic, SSD Slot.it cars and oXigen

SP26
Switch and mixed electronic parts for lighting Kits - SP06 and SP16c

SP10
Lighting Kit - Base module

SP15
Universal Hornby SSD upgrade PCB

SP32
Spare IR LED on wires for O2 and SSD chips

SP34
Spare lighting kit connectors for O2 chips (3x)

SP33
Spare Hall sensor for O2 chips
**Electronic Controller**

**Telemetry Data Interface(*)**

**Ghost Car Motor Test Mode**

**SCP2 Electronic Controller** Analog

<table>
<thead>
<tr>
<th>CARTRIDGES / CONTROLLER COMPATIBILITY FOR SCP-1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Analog</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Ninco</td>
</tr>
<tr>
<td>-------</td>
</tr>
<tr>
<td>SCP01b Cartridge (old connector)</td>
</tr>
<tr>
<td>SCP01g Cartridge (jack connector)</td>
</tr>
<tr>
<td>SCP01a Controller Analog Common Ground</td>
</tr>
<tr>
<td>SCP01c Cartridge Analog Common Positive</td>
</tr>
<tr>
<td>SCP01i Controller Analog Common Positive</td>
</tr>
<tr>
<td><strong>Digital</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Ninco</td>
</tr>
<tr>
<td>-------</td>
</tr>
<tr>
<td>SCP01e Digital Cartridge</td>
</tr>
<tr>
<td>SCP01d Digital Controller</td>
</tr>
<tr>
<td>SCP01e-3v3 Digital Cartridge</td>
</tr>
<tr>
<td>SCP01d-3v3 Digital Controller</td>
</tr>
</tbody>
</table>

V = Box-stock compatible. No wiring necessary
S = Compatible but requires soldering of different connector
X = Not compatible
X* = For all system except Hornby C7042
V* = Compatible ONLY with Hornby C7042
Common Ground = Positive Wiring
Common Positive = Negative Wiring

Carrera, Ninco, SCX, Scalextric trademarks belong to their respective owners.
Electronic Controller

**SCP01e**
Digital Cartridge - (all system EXCEPT Hornby C7042)

**SCP01e-3v3**
Digital Cartridge - (ONLY Hornby C7042 / SCX Digital)

**SCP04c**
Replacement fuses for SCP 3. 15A - fast (5x)

**SCP04d**
Replacement retriggerable fuse for SCP - 1.35A (x1)

**SCP202a**
Complete Red Shell

**SCP202b**
Complete Blue Shell

**SCP202c**
Complete Yellow Shell

**SCP03a**
Spare Red plastic parts

**SCP03b**
Spare Blue plastic parts

**SCP03c**
Spare Yellow plastic parts

**SCP04a**
SCP1 Complete Trigger Set

**SCP204a**
SCP2 Complete Trigger Set

**SCP202d**
Yellow Cartridge Cover

**SCP04e**
Spare silicon cable
Live Timing System

Live Timing Box is an innovative timing system that allows to:

- reproduce via audio the lap times recorded by the pilot, in a language to be chosen among many;
- store in the device’s internal memory the times heard on earphones, sector times and, in case, the telemetry data of the SCP controller of Slot.it to which it is connected;
- listen to your favourite music while driving, by connecting the Live Timing Box to a MP3 player through a normal audio cable not included in the package;
- download the stored data that can be looked up by the user from a PC by means of a special program downloadable for free (we’re generous, aren’t we?) at www.slot.it (Live Timing Box PC Interface);
- updated the system software, with the opportunity to add new specifications to the Live Timing Box in the future without any additional charge;
- delete stored data (good idea);
- remember the status of data storage button and mute button so that it is not necessary to repeat the setup carried out before the supply was cut off.
- work as a complete Race Management System when used in conjunction with appropriate RMS software (e.g. PCLapCounter).

Moreover, Live Timing Box is a versatile system, since its functioning requires only the presence of the Track Interface and is totally independent of the kind of controller employed.

The presence of the Track Interface is necessary since the latter has the job of interfacing the Live Timing Box with the track by collecting the signals coming from the sensors on the circuit (DS bridge, dead strips, Winchrono,...) and sending them after suitable elaboration to the Live Timing Box itself.

For further information concerning the Track Interface system, see the relative manual.

Supported by PC Lap Counter
Directly compatible with oXigen

Live Timing Box

FOR ANY TYPE OF CONTROLLER

Programmable in 10 languages

Free

FOR ANY TYPE OF CONTROLLER

TS01a
Live Timing Box

TS02a
Track Interface

TS02b
Track to Telemetry cable

TS03a
Sector Time Expansion cable

Live Timing Box PC Interface Software.
Digital System

Slot racing digital system
Compatible with existing analog tracks, SSD and Carrera digital *
2.4GHz Wireless, 20 cars per track, up to 2 tracks **
Open PC interface

oXigen (“oxygen” in Catalan language) is Slot.it’s system for digital slot racing. It has reached its maturity after four full years of development and refinement, and is being used by hundreds of enthusiast racers worldwide, for small home circuits and international 24 hours races as well.

oXigen cars can also run and race on both Scalextric Sport Digital and Carrera Digital 132 systems, as long as the models are driven by an oXigen controller. Rather than relying on control signals and power coming from the track, oXigen cars receive their control instructions through a high power, frequency hopping 2.4GHz link.

The track remains compatible with analog racing as it is only used to power the cars, not to transmit control instructions. Lane changing is based on the robust and well tested SSD LED protocol developed by Hornby (used under licence). oXigen accessories like lane changers actually work very well with SSD cars. Specific modules can turn lane changers from Ninco and Carrera into oXigen or SSD lane changers, at small cost.

The Open PC protocol for third party software is supported by PCLapCounter and RCS64.

Designed, developed, supported by Slot.it, the reference company for Slot Car Racing.

During 2014 Slot.it will release specially reprogrammed Scalextric Sport Digital ‘X’ Lane Changers and Pit Lane entry. These parts, whose only change from original Hornby parts is in the firmware, retain full SSD compatibility, improved with anti collision and return-to-straight features, and oXigen’s specific feature ‘Selective Lane Changing’.

* please read the oXigen user manual for further information on compatibility
** software for two tracks is not yet available
**Common SCP Radio interface (CRI)**

*Turn your SCP into a universal wireless controller*

The universal oXigen receiver and cartridge interface is compatible with any SCP cartridge, regardless of polarity and type (works for analog and digital), transforming any SCP unit into a universal wireless slot car controller. It connects through standard oXigen 2.4GHz radio link to the oXigen controller cartridge, creating a real time wireless remote control link for all the SCP supported systems: analog (common ground or common positive), and digital (Hornby, Carrera, Ninco, SCX).

...and of course it is the same oXigen cartridge which is used inside an oXigen system as well.

---

**SCP01L**

Electronic Universal SCP radio interface

*Turn your SCP into a wireless controller for any system*

---

**O206a**

Hornby SSD "X" lane changer with SSD/oXigen/analog firmware rewritten by Slot.it engineers!

*Includes self straight reset, anticollision and 8 selective lane change.*

---

More information available on our website www.slot.it
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