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# **Electrically Operated Turntable**

# Direct adult supervision is required for children under 14 years

To ensure safe transit some parts of the Turntable are packed loose. Please read right through these instructions before assembling and operating the turntable.

## Caution

- a. Never attempt to turn the turntable bridge by hand.
- b. When handling always use both hands do not allow the turntable base to twist or distort.
- c. Always operate on a firm flat surface.
- d. Fishplates have sharp edges. Handle with care.

# Assembly

### I. Inlet Ramp

The 'inlet' ramp has two electrical contacts (*Fig. 1*). Clip one of the special track sections to the ramp (*Fig.2*) ensuring that the underside of each metal rail makes a good connection with the appropriate contact. This ramp must always be fitted with track as electric power is supplied through it to operate locomotives on all other turntable tracks.

#### 2. Outlet Ramps

There are thirteen ramp positions to which the seven outlet track sections may be fitted. These alternatives allow a turntable to be installed within a comparatively small layout by selecting the most convenient positions for them.

If using the outlets for storing locomotives DO NOT fit track sections directly across the bridge from one another otherwise locomotives stored in both positions will be energised together when the bridge is aligned with them. Clip track sections to the selected ramps ensuring that the rail ends overhanging the bridge will make good connections with the bridge rail contacts (*Fig.3*).

#### 3. Track Height

To provide room for the operating mechanism the track on the turntable is a little higher than normal and the special track sections fitted to the ramps are inclined slightly. This height variation can be minimised by laying approach tracks on Hornby Track Underlay which should be laid at double thickness for about 2 inches (*50mm*) from the end of the ramp.

#### 4. Hand Rails

Fix a hand rail on each side of the bridge (Fig.4).





# **Turntable Operation**



#### 5. Assembly into Layout

The inlet track of the Turntable must be connected to a spur off the main layout and it is essential that this spur has power available for the movement of locomotives. The layout plan in Fig.5 shows a small layout where power is fed to the turntable spur through point A.

#### 6. Wiring

The turntable motor is arranged to work from the same 12 volt DC Train Controller that is being used to drive a locomotive. Fig.5 shows the wiring arrangement whereby an R046 switch is used to divert the power from the track to the turntable motor. The extra power connecting clip  $\bigotimes$  supplied with the turntable must be fitted to a section of track adjacent to that where the track feed clip  $\bigotimes$  is located.

Plastic twin connecting sleeves are fitted to the wires to provide an optional facility to tidy the connections at track connection  $\bigcirc$  and R046 switch.

#### 7. Locomotive Operation

- i. To turn a locomotive
  - Switch point A (*Fig.5*) for the turntable spur, run the locomotive from the main line onto the spur and continue slowly onto the centre of the turntable bridge Stop.

To turn the bridge, move the R046 switch lever to the left (it is shown to the right in Fig.5). Operate the train controller knob in either direction at a convenient speed. As the bridge aligns with each outlet there will be a "dwell" time allowing the controller to be switched to "off" when the required outlet is reached. Change the R046 switch back to drive the locomotive off the turntable. To run a locomotive to any outlet track

Switch point (A) for the turntable, run the locomotive onto the bridge – Stop.

Change the R046 switch and operate the train controller until the bridge is lined up with the required outlet track.

 $Change \ the \ R046 \ switch \ again \ and \ drive \ the \ locomotive \ into \ the \ outlet.$ 

The only outlet that is electrically live is the one with which the bridge is aligned and that will only be live when the power connected to the inlet track is on. Locomotives can be stored on the outlet tracks but track (B)(*Fig.5*) will always be live when a locomotive is run between the bridge and the inlet track and should not be used for storing locomotives.

The turntable may also be operated from the DC auxiliary output of other Hornby power units by using an R047 switch.

#### SAFETY NOTICES

- Direct adult supervision is required for children under 14 years.
  This product is not suitable for children under three years of age because of small parts which can present a choking hazard. Some components have functional sharp points and edges handle with care.
- This product is intended for indoor use only.
- The transformer is not a toy. It is a "Transformer for Toys". Before use, check that the transformer is the correct voltage for your mains electricity supply. This product is only to be used with the recommended transformer. The transformer should be examined regularly for damage to the casing, plug pins and cables. In the event of such damage, the set should not be used until the

transformer is replaced with a new Hornby recommended unit. Never attempt to open the transformer yourself.

- This product must not be connected to more than the recommended number of power supplies. The output terminals of the transformer must not be connected directly, or indirectly, to the output of any other AC circuit derived from a transformer or mains power supply.
- Before cleaning any part, disconnect the transformer from the mains electricity supply. **Do not use liquid for cleaning.**
- Please retain these details and the address for future reference.

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