



*1 - Mill finish 2Way with a custom curve installed at the Southbank Centre*

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# 1. Introduction

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The **2Way** system is central to the **Triple E** product range and is universally recognized as the market leader for walkalong operation stage tracking. It is robust, versatile, compact and reliable, serving many roles and purposes within arenas, Film/TV studios and theatres both as a temporary system for shows or as a permanent installation.

**2Way** is perfect for permanent installations in a variety of locations, both inside and out of entertainment venues. It has also proved itself in touring environments for small yet robust on-set track applications.

**2Way** is easily incorporated into pelmets and headers or built into suspended ceilings and a comprehensive range of suspension fittings and hardware is available to allow for all possibilities.

**2Way** can be cut down into any length required, both straight and curved, enabling you to achieve any length or configuration you need. Track sections are easily joined with a pair of steel joint plates and a steel roll pin aligns the running surfaces.

The standard finish for **2Way** track and all components is matte black however the track extrusion is also available in mill finish silver, and it can be anodised or powder coated in any RAL colour for bespoke specifications.

The **2Way** system offers two types of runner – the plain wheel version is economical and long lasting, perfect for masking; the ball-raced version provides silent, long lasting operation on stage and in public areas, perfect for those spaces where a track should be seen and not heard.

**2Way** can form all configurations you will need – single track, overlapping track, L shape, U shape or perimeter.

Ancillary information regarding the capacity of the suspension system and the weight of the tracked load will inform your selection of a track system and which components you may need.

In this manual we have provided instructions, component descriptions and Working Load Limits.

We recommend that you read all instruction sections before starting and the meanings of all words are clarified where necessary. Some information is repeated.

We have endeavored to show the most used applications of **2Way**. Many further variations are possible using standard parts or custom parts designed just for you. Please contact us to discuss any further requirements or for further technical information.

## 2. Overview

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This manual has been designed to help you install your **2Way** track system quickly and easily. The Component Index contains a part number and description of all 2Way compatible components in the Triple E Track range.

All stated Working Load Limits (WLL) are given at a 5:1 factor of safety.

### 2.1 Component Index

#### 2.1.1 Track

**2Way** is an aluminum alloy extrusion channel track, 40 mm x 35.9 mm (HxW). Components are fixed onto and into the upper 'tee slot' channel, mainly using M8 channel nuts. Make sure to double check the channel nut has turned inside the channel, it can feel locked when the nut is locked to the washer as well as to the track! (tip: loosen the channel nut as far as you can first).

All 2Way track is stocked in 6.10 m lengths which can be cut and rolled to order. 2Way can be powder coated any RAL colour, allow a few weeks for this.

Black Anodised:

**2W0101** Straight track section

**2W0102** Track section curved to a custom shape

**2W0103** 90 degree corner section, 300 mm radius

**2W0104** 90 degree corner section, 500 mm radius

**2W0105** 90 degree corner section, 750 mm radius

**2W0106** 90 degree corner section, 1 000 mm radius

Mill Finish:

**2W0201** Straight track section

**2W0202** Track section curved to a custom shape

**2W0203** 90 degree corner section, 300 mm radius

**2W0203** 90 degree corner section, 500 mm radius

**2W0204** 90 degree corner section, 750 mm radius

**2W0205** 90 degree corner section, 1 000 mm radius

Note that all curved sections come complete with 600 mm straights at each end to ensure each section can be easily joined and maintain the smooth running surface required for quiet and easy operation.

**2W0501** Joint set comprised of a steel clamp plate and two steel roll pins. The clamp plate strengthens the join and the roll pins keep the running surface aligned.

### **.2.1.2 Runners**

4 wheeled master runners lead the curtain on- and off-stage, the additional strength and balance required where the most force is applied.

All runners accept commonly used curtain fittings such as Triple E Tab Hooks, Twin Hooks and Wire S-Hooks, along with sewn webbing tapes and some golf bag hook fittings. If in doubt, please check sizes before installation.

There are no scenery carriers available for the 2Way system.



2 - 2W0601

#### **2W0601**

Plain wheeled runner – long lasting and maintenance free but not as quiet or smooth as the ball raced version.

**WLL:** 15 kg



2 - 2W0602

#### **2W0602**

Ball-raced runner – ideal for heavier drapes, longer drops (5 to 8 m) and where the quietest performance is required.

**WLL:** 15 kg

#### **2W0701**

Master runner - used on the leading edge of curtains to give extra strength where the drape is pulled along. Also used to fit overlap arms.

**WLL:** 25 kg



#### **2W801**

Overlap arm – may be added to **2W07W** to create an overlap between drapes on a single track<sup>1</sup>.

### **.2.1.3 Suspension Fittings**

2Way's continuous channel design allows for hanging points anywhere along its length (except where a joint set is being used) and a variety of hanging methods can be employed, detailed below.

#### **2W1501**

Deadline fixing - used to suspend 2Way with rope cordage or wire rope. A bow nut with a threaded M12 bush, it should be used with **ERL1701** suspension brackets.

#### **2W1701**

Ceiling mount clips – sold in a pack of 10 (5 pairs), use these clips to flush mount 2Way to a ceiling or pelmet.

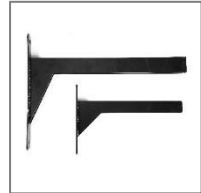
## **ERL1401**

Hook clamp – use to hang 2Way from tube or truss with outside diameters 48 mm to 51 mm.



## **TRA1301**

Girder clamp - used to suspend the track from I beams. Adjustable to fit any size I beam, fit a length of **ERL18** studding to the Unistrut and drop it down to the track.



## **TRA1601**

Wall bracket - used to attach the track to a vertical surface. An L shaped bracket, the side arms are spaced 13 mm apart. Use with studding to fix direct to the track or a mounting bracket.

**WLL:** 100 kg at a reach of 200 mm

## **ERL1701**

Suspension bracket - S shaped bracket that can be used with a **2W1501** or **ERL1801**. Featuring both screw holes and a bolt hole the **ERL1701** allows you to fix 2Way to any pelmet or ceiling.

**WLL:** 74 kg

## **ERL1704**

Attachment nut – the M8 channel nut used to fix components to 2Way and Erail's upper channel. Sold separately to allow you to use your own fixings or as spares.

## **.2.1.4 Accessories**



## **2W2401**

End stop - used to anchor the trailing edge of a curtain, preventing the curtain from being pulled on-stage and stops the runners falling off the track. A rubber bumper ensures you don't hear the runners bump into the end stop.

## **2W2601**

Overlap clip – two are used on overlapping tracks to maintain 80 mm centers and keep the tracks rigid at the overlap. They can also be used to create a common suspension point for parallel tracks, reducing the number of suspension fittings required.

## **2W0801**

Rufflette hook – for use on drapes with a rufflette header.

## **.2.1.5 Points System**

The Points System for 2Way allows you to change the track your curtain is on, just like a train. They can be operated either wired or wirelessly. Use as many as you like in a layout to create the perfect route for your curtains.

### **2W9003**

A 90 degree Point System that sends your curtain to the right in plan view, or allows it to continue straight ahead.

### **2W9002**

A 90 degree Point System that sends your curtain to the left in plan view, or allows it to continue straight ahead.

### **2W9001**

A Point System with two vertical channels that sends your curtain straight ahead or to a parallel track.

## **2.2 Assembly**

Each installation will have its own requirements, if you're building on a stage you may find it easiest to lay the track out and build it on the floor; if you're integrating 2Way into a set or a tight space you may find it easier to put the suspension in the air first and bring the track to it in pieces. Find what works best for the build you're doing.

### **.2.2.1 Joining Track**

Track can be joined in two ways: end-to-end with joint sets and side-to-side with overlap clips.

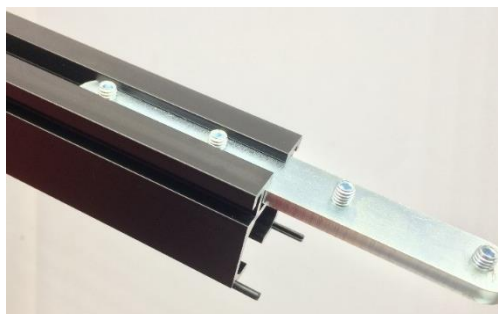
#### **Joint Set**

With the open face of the roll pin facing into the track, fully insert a roll pin into the each of the two keyhole slots in the lower corners of the 2Way extrusion.

Fit the clamp plate into the upper channel of one piece of track, loose.

Meet two faces of track and slide the clamp plate into the second piece so it is located evenly across the join. Ensure the tracks are butted together fully with no gap. Tighten the grub screws with an Allen key. Don't over-tighten them, an additional quarter turn is all that's needed.

Tap each roll pin across the join using a hammer and flat head screwdriver.



## Joining Two Assembled Tracks



Using **2W2601** (*picture 2*) two tracks can be joined to create an overlap or parallel tracks. The flanges on the overlap clip keep the track square.

Loosen the channel nuts as far as you can on each countersunk screw and insert into the upper channel and tighten with an Allen key. Visually check each nut to make sure it's rotated.

If using the 2W2601 as a common suspension point between two parallel tracks refer to the WLL Table for correct spacing.

### .2.2.2 Runners and Endstops

You may find it easiest to install the runners and endstops when the track is in the air or resting on trestles.

If you are using overlap arms install them on the master runners first. The overlap arms can be fitted onto the master runners in any direction but take care to install them so the arms pass one another, creating an overlap, and the master runners can butt together.

Slide the runners into the channel from the open ends, taking care to install the master runners in the correct position and orientation. As you'll be working from the end of the track the master runners may need to go first or in the middle. The runners should move freely on the lower running surface, test the runners on the joints to ensure there are no gaps or bumps. If there are you will need to re-do the joint.

To fit the endstops (normally 2 or 4) loosen the screw and slide it into position with the washer sitting beneath the track and the flange facing towards the centre of the system. Tighten with an Allen key (the hole is threaded so there is no nut). You can add endstops anywhere along the track to allow curtains run to set positions. If doing this, you will need to install the runners and endstops in order.



### 3. Suspending the Track

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You can calculate the number of suspension points you need using the WLL Table, you will need to know the weight of the drapes you are hanging on the track. It is best practice to have a few more suspension points than required.

If there is any doubt, consult with a competent person. The type of suspension should be determined by a competent person taking all possible circumstances in account.

**Important:** when the curtains are in their open position (in the stacking area) their full weight will be concentrated over a short length of track so you may need additional suspension in the stacking area. To calculate the length of the stacking area multiply the number of runners by the width of the runners.

Decide if you're going to fit the suspension components to the track at ground level or in the air. If you are going to install the suspension first make sure to take accurate measurements from the assembled track to ensure the suspension is installed in the correct location.

If your suspension method uses **ERL1704** to fix to the track, make sure the nuts have rotated properly.

## 4. Maintenance and Inspection

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### 4.1 Maintenance

**2Way** needs very little maintenance other than ensuring the track is clean, free of obstructions and the suspension fixings are still tight.

### 4.2 Inspection

When **2Way** is installed or re-installed in a different location, good practice dictates that it is inspected at regular intervals during the time the equipment is in use to ensure it functions correctly and safely. The frequency of inspections, the 'Inspection Schedule', should be based on the risk assessment for the operation and use of the equipment. Extra inspections will be required in the event of exceptional circumstances including major modifications, refurbishment and repairs, or known or suspected damage. We encourage careful documented inspection by a competent person at least once a year on fixed installations.

Below is a list of main areas for general inspection; each use and circumstances may have different inspection criteria. Therefore, this not a definitive list.

**Track:** The track should not be dented, deformed or bent in any direction (other than an expected curve) and should show no signs of crushing from overtightened bolts. There should be no holes (other than the manufacturers) or cracks in the track. The joint plates should not be loose or have any visible dents or bends and the joint itself should be tight. Visual checks should be performed for evidence of corrosion, particularly where dissimilar metals are in contact with one another.

**Runners:** All wheels should rotate smoothly and the plastic shouldn't have any signs of stress, cracks, bends, deformity or excessive wear. Overlap arms should be straight and show no signs of deformity.

**Suspension fittings:** Check there is no damage to the threads of the fixings, no signs of bending or deformities without a load applied or show any signs of damage, stress, cracks or excessive wear.

## 5. Support

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### **Opening Hours**

09:00 to 17:00

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