


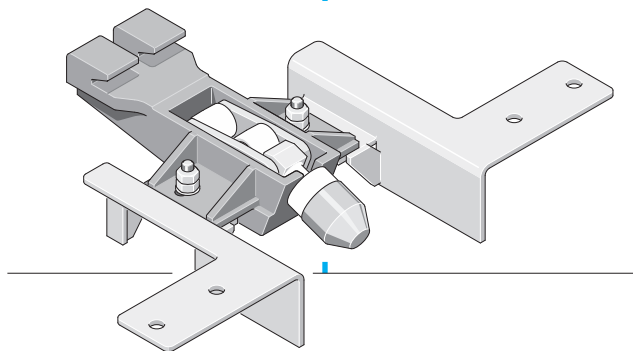


<b>NEW EQUIPMENT &amp; SYSTEM APPROVAL PROFORMA</b>		<b>Ref: 08-08-11-068</b>						
<p>Note: the prompts given below are only a guide to the information required for approval. Dependent on the type of equipment or system that requires approval delete any section that is not applicable or include additional information if necessary. <b>Mandatory</b> fields are marked with an asterisk (*).</p>								
1	<p><b>Equipment or System to be approved *</b> <b>Teksol Internationl - EKOS Tongue Roller System</b> (for turnouts with timber bearers only)</p>							
2	<p><b>Originator *</b> Name: Ben Leske Company: ARTC</p>							
3	<p><b>Introduction *</b> Turnout rollers reduce friction between blade rails and chair plates.</p>							
4	<p><b>Determination of Need *</b> This component improves the operation of existing turnouts and significantly reduces the ongoing maintenance requirement fro lubricating switch chairs. This saves money and prolongs the life of the turnout.</p>							
5	<p><b>Significant Change or Not (as determined by the Manager Standards) *</b> This change in equipment or system is assessed as MINOR</p>							
6	<p><b>Review Panel (as determined by the Manager Standards) *</b></p> <ul style="list-style-type: none"> <li>• John Cowie - Manager Standards</li> <li>• Tim Calver - Standards &amp; Technical Services Engineer</li> <li>• Ian Domleo - Standards Engineer</li> </ul>							
7	<p><b>Safety</b> There are no specifications, ARTC procedures or Australian Standards that this component needs to comply with. This system has been trialled at Mt Lofty for nearly 2 years with only positive reviews and benefits from the trial.</p>							
8	<p><b>Performance and Suitability</b> Refer attached report</p>							
(i)	<p><b>Use in other rail networks</b> Used overseas and across NSW.</p>							
(ii)	<p><b>Use in the ARTC network</b> Hunter Valley for over 7 years.</p>							
(iii)	<p><b>Issues arising from usage of the equipment/system</b> All parties very happy with their use - see attached email from John Gifford who has used them for 7 years on Hunter Valley</p>							
(iv)	<p><b>Changes required to infrastructure or systems for use of the equipment</b> Rollers can be retro fitted to turnouts with timber bearers.</p>							
9	<p><b>Reliability</b> A 12 month trial has been conducted in SA, successfully along with use in the Hunter Valley, both indicating the product to be reliable.</p>							
10	<p><b>Maintainability</b> The equipment is easily maintainable and will fit with current maintence regimes and will actually reduce lubrication requirements.</p>							
11	<p><b>Approval *</b> EKOS Tongue Roller System is approved for use across the ARTC network as appropriate for turnouts with timber bearers only.</p>							
12	<p><b>Conditions of Approval *</b> Maintenance staff need to be trained in installation and maintenance. Procedures should be revised for turnout inspections and maintenance.</p>							
13	<p><b>Does the Originator accept the additional Conditions of Approval as set by the Review Panel:</b></p>		Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input type="checkbox"/>

14	<b>Sign off</b>	<b>ARTC office use only</b>	
	<b>Review Panel:</b>		
	John Cowie		Date: 1.5.07
	Tim Calver		Date: 30/4/07
	Ian Domleo		Date: 30/4/07

**SCHRECK-MIEVES**

**Tongue Roller System EKOS®**  
**LEVEL TONGUE**



**INSTALLATION INSTRUCTIONS**

**SCHRECK-MIEVES**

**Identification**

EKOS® "LEVEL TONGUE" | Installation instructions | State 11/2002

**Purpose of the document**

These installation instructions are an "on location guide". They describe the installation of the Tongue Roller System EKOS® under normal conditions and in well-positioned switches.

For additional more detailed information please refer to the other valid documentation or contact Schreck-Mieves GmbH directly.

**Other valid documentation**

Please keep all the documentation you received on purchasing or on delivery of the Tongue Roller System EKOS® safely.

Other valid documentation could be: product descriptions, technical drawings, planning documentation, delivery notes and the arrangement map.

**All rights reserved**

Nothing from these installation instructions is to be copied or reproduced in any way shape or form without the prior written consent of Schreck-Mieves GmbH.

**Exclusion of liability**

Schreck-Mieves is explicitly excluded from any liability in the event that the installation instructions or the other valid documentation have not been observed, or the specific country's safety regulations have not been adhered to.

**Any questions?**

Schreck-Mieves GmbH  
Krückenweg 113  
D-44225 Dortmund

phone: +49 (0) 2 31. 71 08-0  
fax: +49 (0) 2 31. 71 15 88

e-mail: produktmanagement.dortmund@schreck-mieves.de

**Obligations of the operator**

The operator of the track system must ensure that:

- the respective country's regulations regarding working on the track are observed
- installation and maintenance work is only carried out by qualified and familiarized personnel
- the track stretches or switches are only secured by trained safety personnel
- the personnel must be able to spot any danger and act individually to avert any such danger

**Danger during installation**

When installing the Tongue Roller System care must be taken to ensure that no parts of the body come between the stock rail and the tongue. Otherwise there is a danger that these parts of the body could be jammed when switching over the switch which could be life threatening!

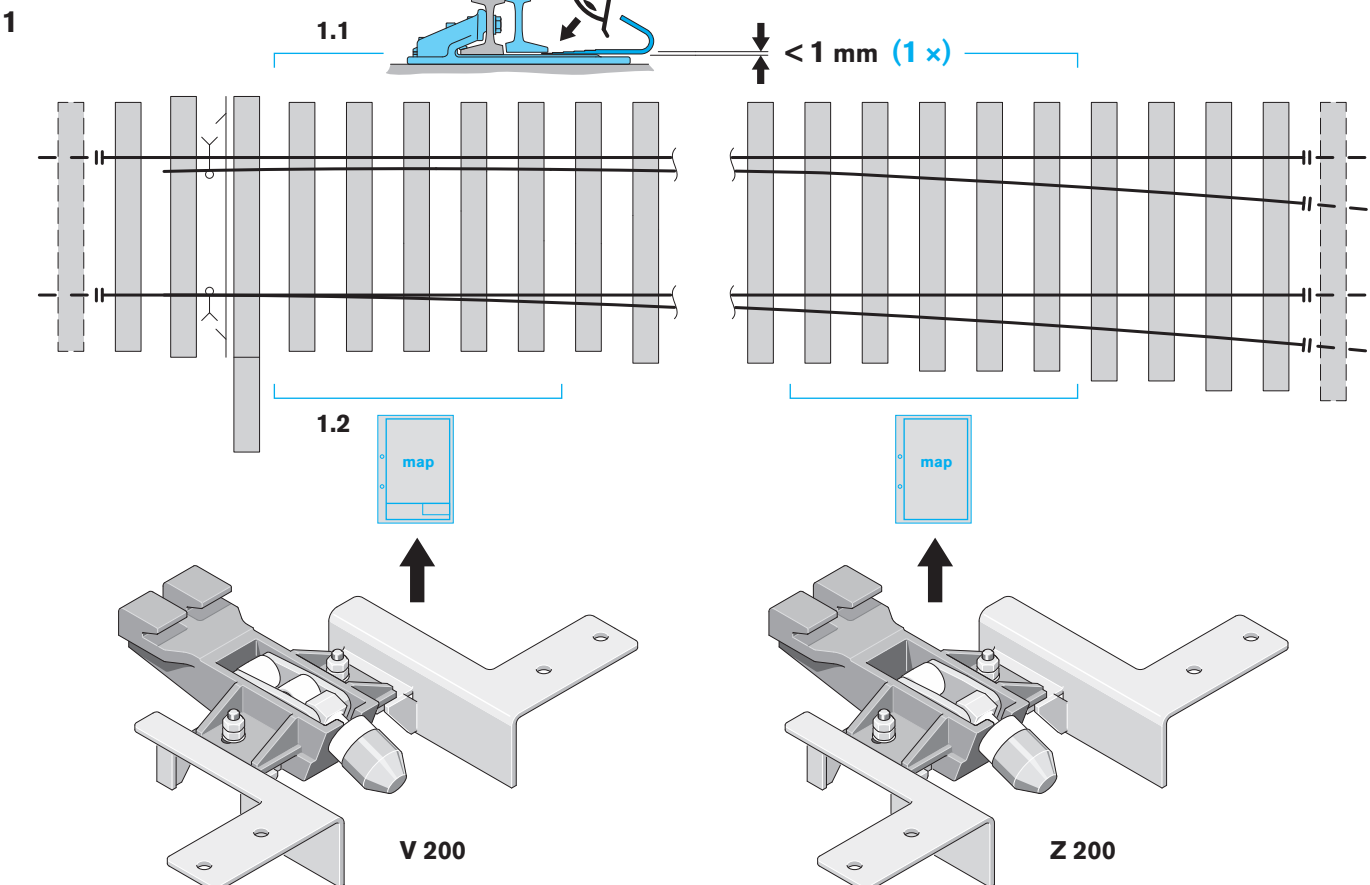
INSTALLATION PREPARATIONS

**The first steps**

1. Check the correctness and completeness of the delivery
2. Check the Tongue Roller System to ensure it is in an orderly state
3. Get safety personnel to secure the relevant stretch of track
4. Use the arrangement map to determine the installation position in the switch
5. Ensure the following tools are at hand for the installation of Tongue Roller System:
  - template and metal ruler
  - spatula and wire brush
  - open-ended / ring spanner, SW 30
  - open-ended / ring spanner, SW 24
  - Ballast fork
  - Hammer
  - Drilling equipment (timber 10 + 11 mm / concrete 18 mm)

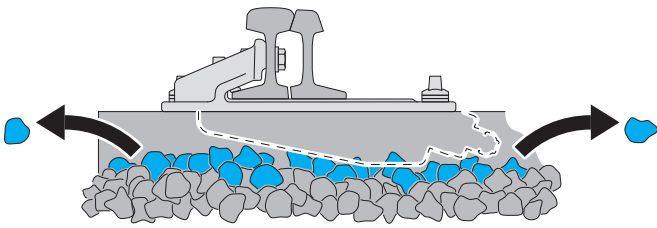
INSTALLATION

INSTALLATION

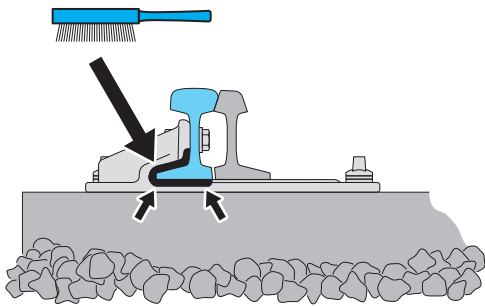


INSTALLATION

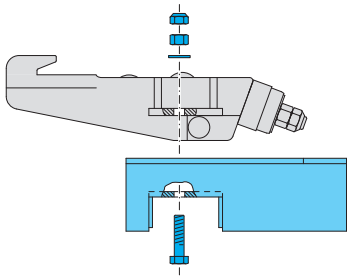
2



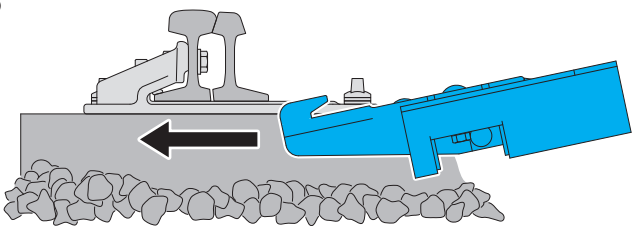
3



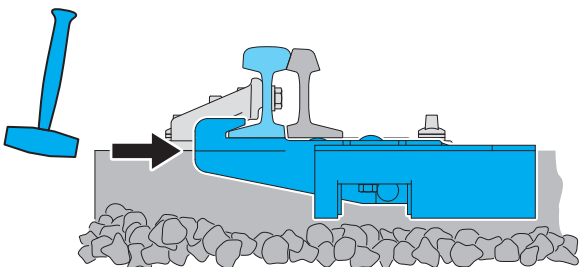
4



5

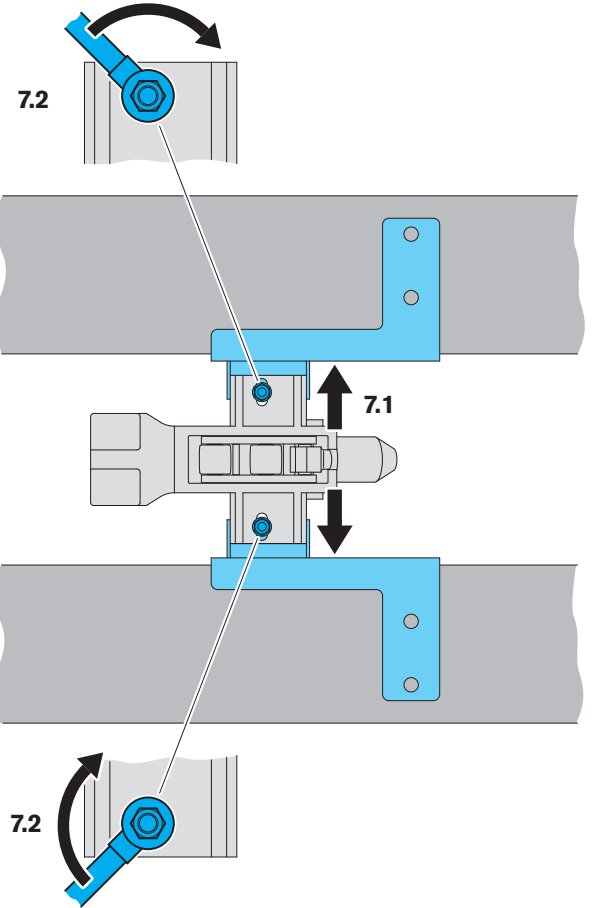


6

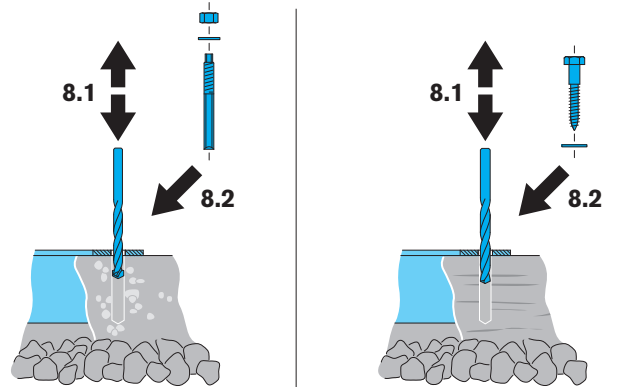


INSTALLATION

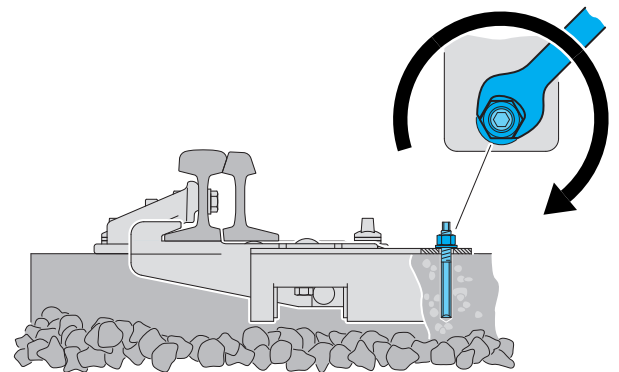
7



8

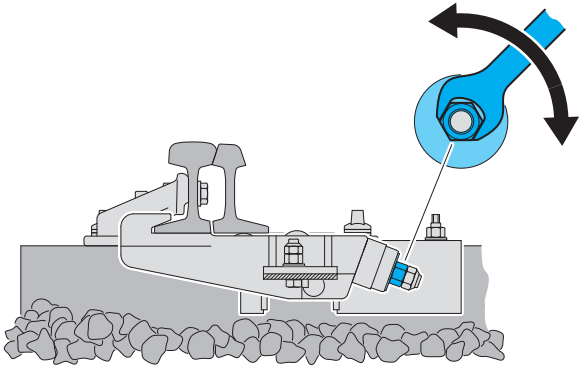


9

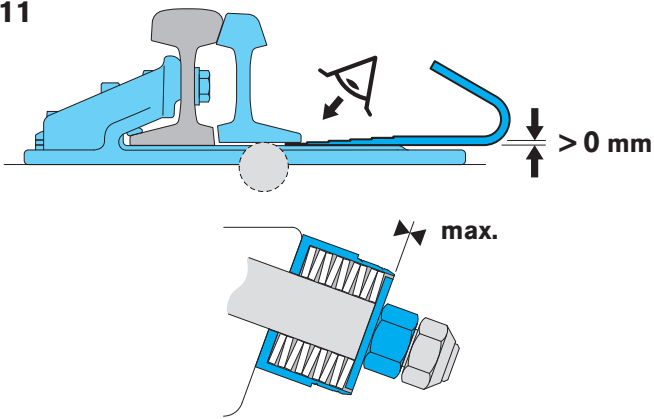


INSTALLATION

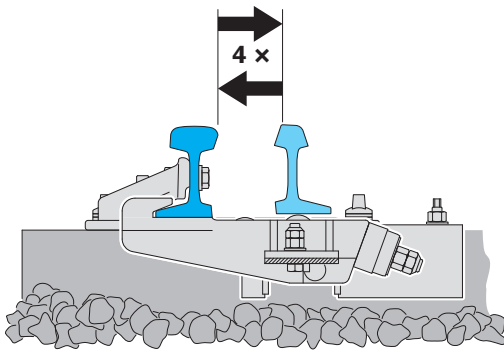
10



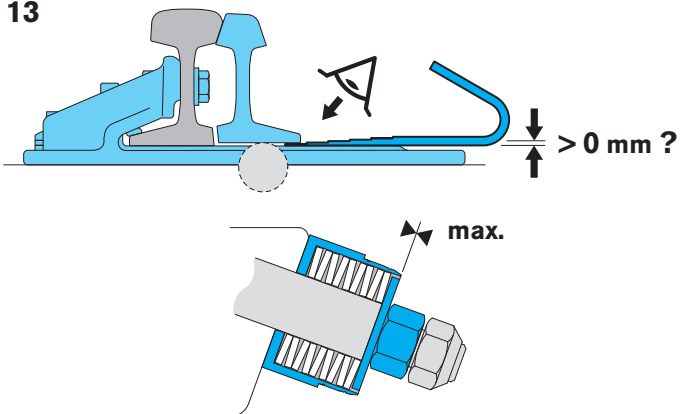
11



12

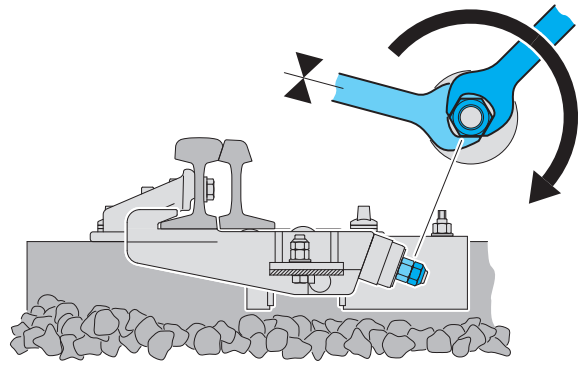


13



INSTALLATION

14



15

