



AUSTRALIAN RAIL TRACK CORPORATION

Certificate No.: **S 02-1402-148**

NEW EQUIPMENT & SYSTEM APPROVAL CERTIFICATE

Approval date: 19th June 2014

Approved by: Review Panel

Report no.: TAR-02-1402-WC148

Report date: 7th April 2014

This certificate is issued to:

Supplier: **Bradken**
20 McIntosh Drive,
Mayfield West
NSW 2304
Sydney, Australia

In respect of:

Manufacturer: **Western Cullen Hayes**
2700 West 36th Pl
Chicago, IL
USA 60603

Product description: **HBR-WCX & HBL-WCX DERAIL/CROWDER**

Item identification: **SEE APPROVED ITEM LIST**

Application: Controlled derailment of rollingstock across the entire ARTC network

Relevant Standards: SPS 02 – 'Environmental Conditions'

Conditions of Approval:

1. Selection of derailer only or derailer / crowder combinations to be based on performance needs and nominated performance limits.
2. HBR or HBL derailer to be used where maximum speed of rollingstock to be derailed does not exceed 15kph.
3. HBR or HBL derailer and WCX crowder to be used where maximum speed of rollingstock to be derailed does not exceed 20kph.
4. To only be used with lever operation or point motor operation. Manual operation without using the lever would be an WHS risk so is not permitted on new installations.
5. Derailer or derailer and crowder must be securely locked in either the normal position or reverse position at all times (must not be free to move when unattended).
6. Must be installed by competent installers in accordance with manual 'DERAILS – Installation, Inspection, Maintenance'.
7. Ballast drag must be installed in every location to the required length as per 'Part D – Rolling Drag' Calculation spread sheet.
8. Timber sleepers must be used.
9. Only components from the approved item list may be utilised.
10. The derailer must be installed on the outside rail when the track is curved.
11. The derailer must derail the rolling stock to a safe location, in particular not to be foul of the running line, or to a location dangerous to people or property or to unduly damage the rolling stock.
12. The derailer or derail/crowder must be painted white using enamel high gloss paint.

A general condition of approval is that the supplier remains accredited to ISO 9001 specifically for these products and ARTC is advised on a 12 monthly basis that accreditation is current. ARTC reserves the right to conduct its own audit of the manufacture and supply of these components to AS 19011:2003.

Any subsequent change to the design, materials or manufacturing process is not covered by this approval. The manufacturer shall notify ARTC of any modification or changes in order to obtain a valid certificate for the changes.

Note/Comments: None

Issue date: 23rd June 2014

Expiry date: N/A

Issued by:



John Furness
ARTC Manager Standards

NEW EQUIPMENT & SYSTEM APPROVAL - APPROVED ITEM LIST

Product description: **W.C.HAYES HBR-WCX & HBL-WCX DERAIL/CROWDER**

Certificate No: **S 02 1402 148**

The following lists the individual types (by catalogue number) of derailer and crowder parts manufactured by W.C.Hayes which are type approved for use in signalling circuits on ARTC infrastructure under Type Approval Certificate **S-02-1402-148** subject only to any conditions shown on that Certificate and the Conditions of Use shown against individual types.

For use in sidings. Max speed of 15kph only

RIGHT HAND THROW – DERAILED ONLY		
Part number	Description	Includes
HB4R	Right Hand Throw – Size 4	N/A
HB5R	Right Hand Throw – Size 5	N/A
HB6R	Right Hand Throw – Size 6	N/A
HB7R	Right Hand Throw – Size 7	N/A
HB8R	Right Hand Throw – Size 8	N/A

For use in sidings. Max speed of 15kph only

LEFT HAND THROW – DERAILED ONLY		
Part number	Description	Includes
HB4L	Left Hand Throw – Size 4	N/A
HB5L	Left Hand Throw – Size 5	N/A
HB6L	Left Hand Throw – Size 6	N/A
HB7L	Left Hand Throw – Size 7	N/A
HB8L	Left Hand Throw – Size 8	N/A

For use in sidings. Max speed of 20kph only

RIGHT HAND THROW – DERAILED & CROWDER		
Part number	Description	Includes
HB4R-WCX4	Right Hand Throw – Size 4	Isolating rodding
HB5R-WCX5	Right Hand Throw – Size 5	Isolating rodding
HB6R-WCX6	Right Hand Throw – Size 6	Isolating rodding
HB7R-WCX7	Right Hand Throw – Size 7	Isolating rodding
HB8R-WCX8	Right Hand Throw – Size 8	Isolating rodding

For use in sidings. Max speed of 20kph only

LEFT HAND THROW – DERAILED & CROWDER		
Part number	Description	Includes
HB4L-WCX4	Left Hand Throw – Size 4	Isolating rodding
HB5L-WCX5	Left Hand Throw – Size 5	Isolating rodding
HB6L-WCX6	Left Hand Throw – Size 6	Isolating rodding
HB7L-WCX7	Left Hand Throw – Size 7	Isolating rodding
HB8L-WCX8	Left Hand Throw – Size 8	Isolating rodding

HRS100 High Rise Stand (Operating lever)		
Part number	Description	Includes
HRS-100	Left Hand Throw or Right Hand Throw	Rodding