

SIGNAL ENGINEERING INSTRUCTION
10 July 2006
ESI 06 04A

Westinghouse LED signal modules

Scope

This instruction applies to all personnel involved in signals maintenance or installation.

Background

Westinghouse have advised of a manufacturing fault in the RM4 range of LED modules. This bulletin applies to 200mm LED - green, yellow, red and white light modules, as follows:-

- RM4-RCFB25-A
- RM4-YCFB43-A
- RM4-GCFB25-A
- RM4-WCFB25-A

Does not apply to the new 70 series modules.

Actions

Signal maintenance staff are to inspect all Westinghouse LED signals in stock or installed during 2006. For the items identified as below, make a record of the items, location and type. This is to be reported to the Signal Manager for the region. The Signals Manager is to make arrangements for the change out of the units. The Signals Manager is to liaise with the Westinghouse representative for the replacement of the units. The Signals Manager is to maintain a list of the defective units and details of their respective change out.

Identification of Units

All RM4 (200 mm) LED Signal modules with a manufacturing date between 10th February 2006 and 27th April 2006. The manufacture date can be read from the label on the rear of the signal following the identifier "D/C:" This is the manufacturing date code in the form YYWW (year and week number). Affected signals could have date codes between 0606 and 0617. Some signals at the extreme of this range may be OK.

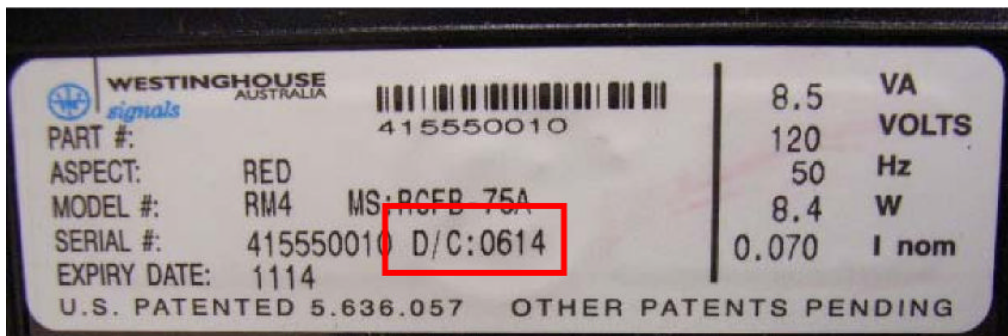


Figure 1: Example of Label

Audience
Signalling Maintenance Staff Signalling Construction Staff Signals Manager
Main Points
Inspect Westinghouse Led modules supplied or installed in 2006. Report to Signals Managers and arrange for changeover with Westinghouse
Version
Enquiries
John Cowie 08 8217 4293 Trevor Moore 02 8259 0720



The signals can be visually identified by looking at the four mounting pillars as shown in Figure 2.

Figure 2: Signal Face showing the four pillars

There are three versions covers manufactured recently. Signals that are not at risk have a full seal on the top of these pillars, as shown in Figure 3 and Figure 4



Figure 3: Older cover, with full surface seal



Figure 4: Latest cover with slightly recessed Seal.



Figure 5: At risk covers, not moulded to the top.

Affected covers have the seal well down in the pillar. Figure 5 shows an example where a pencil can be inserted from the front of the cover. These are the only signals that need attention.

INFORMATION

Some of the front clear polycarbonate covers manufactured in this time may have microscopic cracks around the screw assembly post that could compromise their IP65 moisture and dust rating of the signal. They may therefore allow a little water ingress in driving rain or where water can pool on the mounting pillar and be sucked in with differential temperature changes.

Westinghouse are currently working to identify the serial numbers of signals with *at risk* covers. They will contact each affected customer as soon as they have this available. They recommend that all signals with *at risk* covers be returned to Westinghouse where they will fit a new cover at no cost.

In the meantime, they recommend that you inspect any signals due for installation and do not install any with *at risk* covers. Any signals installed in 2006 should be inspected during the next routine maintenance visit.

John Cowie
Manager Standards & Systems