

# PRODUCT SAFETY BULLETIN 36474

## MINECRUISER PARK BRAKE VALVE IMPROVEMENT – ADDENDUM TO BULLETIN 36395

**Date:** 7/05/2025

**Issue:** B

**Prepared for:** End Users and Maintainers

**Applicable machines:** MineCruiser Mk6, Mk7 & Mk8

**Part numbers:** HY00433 / 7-075577-700 / 7-220923-700



## Background:

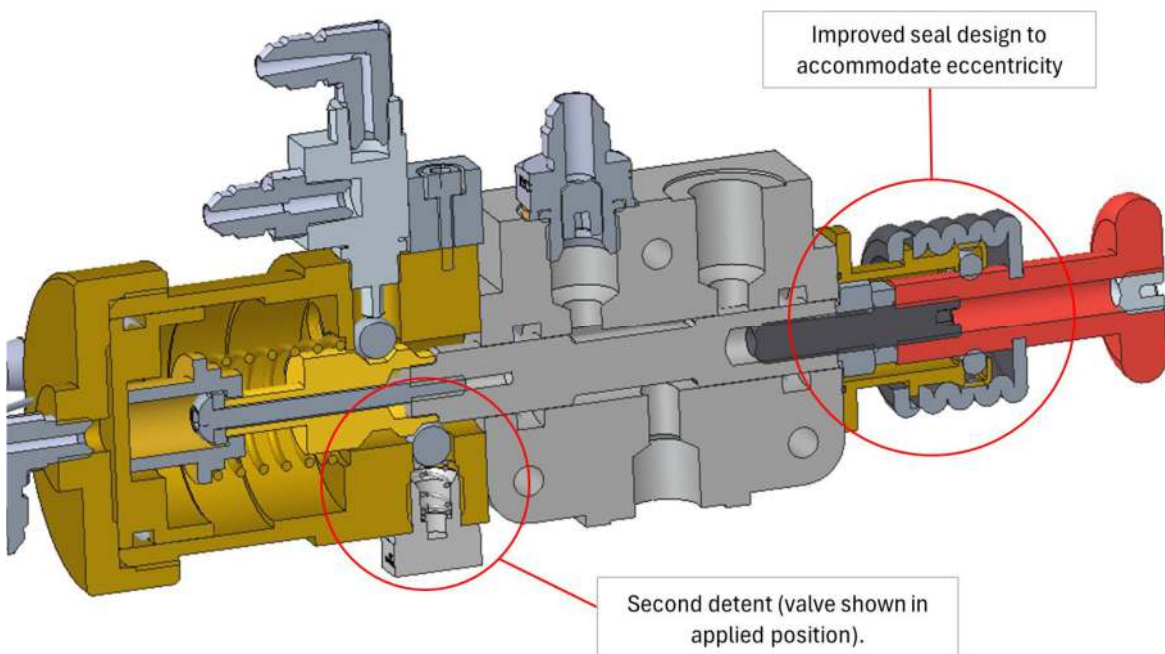
In October of 2024, Cougar released Product Safety Bulletin 36395 detailing a potential hazard of the park brake valve being accidentally applied to a partially applied state.

In response to the incident that occurred, Cougar provided recommendations for operators, end users and maintainers to prevent the accidental application of the park brake valve.

Since that time, Cougar has also made a design improvements to the park brake valve HY00433, increasing the amount of force required to apply the park/emergency brake and reducing the likelihood of the park emergency brake being accidentally applied, when the revised valve is installed.

## Communication:

The proprietary park brake valve has been re-engineered to incorporate a detent in the released position when the valve is pulled up. This change results in a higher force being required to apply and release the valve but still complies with the force requirements from the Technical Reference Guide for Braking Systems used in Underground Transport.



***Park Brake Valve HY00433 /7-075577-700 improvement detailing updated detent and improved seal arrangement.***

Other issues had been previously identified with the valve sometimes malfunctioning due to contamination. As part of the revision, an improved sealing arrangement was also developed to reducing the likelihood of water or contaminants entering the valve spool through the valve boot / shaft interface.

## Impact to design registration MDR 095324 TBS:

The change to the park brake valve has been independently verified to having no negative affect on health and safety. Additionally the valve has been design registered as an alteration to the MineCruiser Transport Braking system MDR 095324 TBS -5.

This revision incorporates other changes to the MineCruiser braking system that are detailed as follows;

The addition of the MineCruiser Mk8 specifications to the design registration including increased weight.

An optional pressure monitoring system for secondary brake release pressure. This provides a continuous monitoring signal to an interlock valve that automatically applies the secondary brake if the brake pressure falls below the minimum release pressure for the park/emergency brake.

## Upgrade of the design registration for Minecruisers in Service:

The MineCruiser Mk7 may be upgraded from MDR 095324 TBS-3/3a or -4 by completing the following work;

1. The valve must be replaced with the later HY00433 valve with 7kg detent (all plumbing and system arrangement is the same).
2. Optional installation of park brake monitoring valve and hosing\*.
3. An updated label inscribed with MDR 095324 TBS-5 must be installed, part number 7-190891-700.
4. A brake test must be performed with all service, automatic, park and secondary brake functions checked.
5. A notice of registration for MDR 095324 TBS-5 and the registration drawing MC49200 sheet 4 issue 8 shall be included in the plant safety file
6. On successful completion of above items, including the valve serial number, brake test report, Cougar compliance team can assess and issue a certificate of conformance to the notice of registration for the machine.

The MineCruiser Mk8 may be upgraded from by completing the following work;

1. The valve must be replaced with the later HY00433 valve with 7kg detent (all plumbing and system arrangement is the same).
2. Optional installation of park brake monitoring valve and hosing\*.
3. An updated label inscribed with MDR 095324 TBS-5 must be installed. Part number 7-193697-700.
4. A brake test must be performed with all service, automatic, park and secondary brake functions checked.
5. A notice of registration for MDR 095324 TBS-5 and the registration drawing MC49200 sheet 4 issue 8 shall be included in the plant safety file
6. On successful completion of above items, including the valve serial number, brake test report, Cougar compliance team can assess and issue a certificate of conformance to the notice of registration for the machine. Refer form WF-273 attached.

MineCruisers with design registrations of MDR 095324 TBS -2 or less must be subject to further compliance inspections prior to update to the later design registration. Please contact Cougar to make arrangements for this work to be undertaken.

Customers wishing to install the optional pressure monitoring feature for the park brake release must also be subject to further installation and inspection requirements. Please contact Cougar to make arrangements for this work to be undertaken.

## Spare parts provision for Minecruisers in Service:

- The new valve may be purchased on sales order by ordering part number HY00433. Sales team will include the respective label. Please provide indication if the order is for a Mk7/Mk6 or Mk8. Compliance requirements as above must be carried out by competent persons to establish compliance to the '-5' MDR when installing the new valve.
- The original valve may still be purchased for a limited period as part number 7-075577-700 only
- The original valve will continue to be available for overhaul/service exchange as 7-075577-700R & 7-075577-700SEX respectively for a period of a few months.

## Recommendations:

1. Owners and end users should plan changes required for replacement of the improved MineCruiser park brake valve at the next available overhaul, with due consideration given to the design registration impacts, particularly if being ordered as a spare part.
2. Contact Cougar representatives below to make arrangements for this work.

### Please distribute this bulletin to all relevant personnel

|                                     |               |              |
|-------------------------------------|---------------|--------------|
| Operations Manager                  | Jacob Cassar  | 0410 042 501 |
| Compliance and Business Improvement | Bill Davidson | 0409 562 385 |
| Workshop Manager QLD                | Mick Ruhl     | 0428 561 237 |
| Workshop Manager Mackay             | Steve Morris  | 0483 205 411 |
| Product support NSW                 | Josh Preece   | 0419 880 414 |
| Product support south coast NSW     | Cameron Pike  | 0428 628 944 |
| Spare Parts Manager                 | Greg Davies   | 0422 025 295 |

## References

Bulletin 36395 – Product Safety bulletin Park Brake Valve MineCruiser  
Technical Reference Guide - Braking Systems on Plant Used in Underground Transport

WF-273 MDR 095324 TBS upgrade from -3 to -5 form

# MDR 095324 TBS

## Upgrade from -3 or -4 to -5

|                                |  |                  |  |
|--------------------------------|--|------------------|--|
| <b>Machine Serial No.</b>      |  | <b>Plant No.</b> |  |
| <b>Date</b>                    |  | <b>Hours</b>     |  |
| <b>Customer</b>                |  |                  |  |
| <b>Record MDR TBS - Number</b> |  |                  |  |

### Physical Checks:

- Check all TBS Tech bulletins are up to date
- Check the compliance decal is fitted in the cab and marked with correct MDR including dash number 5
- Ensure there are no variations in materials, design or construction to the MDR
- Carry out brake test
- Ensure the machine does not exceed the following parameters

### Mk6 and Mk7:

- |           |                         |         |
|-----------|-------------------------|---------|
| <b>A.</b> | Mass Gross Vehicle Mass | 8,300kg |
| <b>B.</b> | Tare Mass               | 6,300kg |
| <b>C.</b> | Maximum Load-           | 2,000kg |
| <b>D.</b> | Maximum Operating Speed | 41km/h  |
| <b>E.</b> | Maximum Grade           | 25% 1:4 |

### Mk8

- |           |   |              |
|-----------|---|--------------|
| <b>A.</b> | Mass Gross Vehicle Mass                   | 8,700kg      |
| <b>B.</b> | Tare Mass Refer to Brake Compliance Label | From 6700 kg |
| <b>C.</b> | Maximum Load                              | 2,000kg      |
| <b>D.</b> | Maximum Operating Speed                   | 41km/h       |
| <b>E.</b> | Maximum Grade                             | 25% 1:4      |

|                              |  |                                   |  |
|------------------------------|--|-----------------------------------|--|
| <b>Competent Person Name</b> |  | <b>Competent Person Signature</b> |  |
|------------------------------|--|-----------------------------------|--|

**Documentation to supply to Cougar compliance:**

- Supply the latest certificate of compliance to TBS (-3 or -4) to Cougar compliance team with Machine serial number and this completed form
- Completed brake test conducted after installation of new park brake valve
- A photo of the installed brake compliance decal indicating '-5'
- Supplied brake valve certificate for the installed HY00433 brake valve

|                              |  |                                   |  |
|------------------------------|--|-----------------------------------|--|
| <b>Competent Person Name</b> |  | <b>Competent Person Signature</b> |  |
|------------------------------|--|-----------------------------------|--|

**Documentation to be supplied by Cougar compliance:**

- A certificate of compliance to for the TBS MDR 095324 TBS-5
- A notice of registration to MDR 095324 TBS-5 to be installed into the plant safety file
- Registration documents and drawing MC4900 sheet 4 issue 8
- Updated Maintenance and operation information relating to the MDR