

## TURNOUT DETAILED INSPECTION - Dual gauge SG - BG

<b>Location:</b>	<b>Turnout Number:</b>	<b>Equipment No.:</b>	<b>Kilometrage:</b>
<b>Inspector Name:</b>	<b>Date:</b>	<b>Work Order:</b>	<b>Track:</b>

<b>OVERVIEW INSPECTION These tasks apply generically to all points and crossings assemblies</b>					
ELEMENT	MEASURE	COMMENT	CONDITION	RESPONSE	RESPONSE
Component Damage			Any component loose, missing or broken.	A6	Increase monitoring, prioritise repair
Track geometry, Pumping in Critical Areas			5 – 20 mm	A6	Increase monitoring, prioritise repair
			20 mm or more	A6	Increase monitoring, prioritise repair
Track Geometry, Overall Condition			Visible deterioration	A6	Increase monitoring, prioritise repair
			Single Measured defect	-	ETS-05-00 5.4 table 5-15
			Multiple measured defects	-	ETS-05-00 5.4 table 5-15
Bearers and Fasteners, Ineffective in Critical Areas			1	A6	Increase monitoring, prioritise repair
			2 consecutive	A3	40 km/h TSR until repaired
			> 2 consecutive	A1	10 km/h TSR until repaired
Bearers and Fasteners, Overall Condition			< 20% loose clips, screws or spikes, timbers degraded	A6	Increase monitoring, prioritise repair
			Pads and insulators skewed some fasteners missing 1 in 4 timbers deteriorating	A6	Increase monitoring, prioritise repair
			> 50% loose clips, screws or spikes, 1 in 3 timbers degraded missing fasteners	A6	Increase monitoring, prioritise repair
Ballast, condition and profile			Fines on surface. Ballast shoulder reduced.	A6	Increase monitoring, prioritise repair
			Trapped moisture, mud and track pumping. Ballast low, ends of multiple bearers visible.	A6	Increase monitoring, prioritise repair
Ballast, Excess			Ballast < 25 mm from moving parts. Ballast loose on sleepers.	A6	Increase monitoring, prioritise repair
			Ballast touching moving parts or ballast obstructing inspection of fasteners. Ballast fallen into trough.	A6	Increase monitoring, prioritise repair

OVERVIEW INSPECTION These tasks apply generically to all points and crossings assemblies				
ELEMENT	MEASURE	COMMENT	CONDITION	RESPONSE
Rail, Creep			Any of below Misalignment at heel Signs of rail movement Blade up out of square. Greater than 15 mm clearance of moving drive locking and detection equipment from fixed parts. Anti creep device not correctly positioned for current rail temp	A6 Increase monitoring, prioritise repair
Rail, Condition			Irregular contact band. Minor RCF, wheel burns or top / side wear. Evidence of bent rail. Severe RCF likely to interfere with Ultrasonic testing. Advanced wear. Corrugations. Other rail defects requiring a response.	A6 Increase monitoring, prioritise repair A6 Increase monitoring, prioritise repair A6 Increase monitoring, prioritise repair
Rail, Remaining Head Height			35mm to 26 mm 24 to 26 mm and without defect per Section 1 Rail Head height defect	A7 Routine scheduled inspection A6 Increase monitoring, prioritise repair - Section 1 Rail

POINTS INSPECTION					
ELEMENT	MEASURE	COMMENT	CONDITION		RESPONSE ACTION
Switch Opening, actual	COMMON		85 mm to < 95 mm	A6	Increase monitoring, prioritise repair
	STANDARD		80 mm to < 85 mm	A2	20 km/h TSR until repaired
	BROAD		< 80 mm	A1	10 km/h TSR until repaired
Track gauge (at the switch tip)	STANDARD		≥ 1456 mm	-	Assess as per ETS-05-00 Table 5-15
			1445 mm to < 1456 mm	A6	Increase monitoring. Prioritise repair
			1430 mm to < 1445 mm	A7	No defect
			1427 mm to < 1430 mm	A4	60/65 km/h TSR until repaired
			1425 mm to < 1427 mm	A2	20 km/h TSR until repaired
	BROAD		< 1425 mm	A1	10 km/h TSR until repaired
			≥ 1621 mm	-	Assess as per ETS-05-00 Table 5-15
			1610 mm to < 1621 mm	A6	Increase monitoring. Prioritise repair
			1595 mm to < 1610 mm	A7	No defect
			1597 mm to < 1595 mm	A4	60/65 km/h TSR until repaired
Back of switch blade to opposite switch gauge face at tip	STD. LEFT		1360 mm to < 1365 mm	A6	Increase monitoring. Prioritise repair
			1365 mm to < 1370 mm	A2	20 km/h TSR until repaired
	STD. RIGHT		≥ 1370 mm	A1	10 km/h TSR until repaired
	BROAD		1525 mm to < 1530 mm	A6	Increase monitoring. Prioritise repair
			1530 mm to < 1535 mm	A2	20 km/h TSR until repaired
			≥ 1535 mm	A1	10 km/h TSR until repaired

POINTS INSPECTION					
ELEMENT	MEASURE	COMMENT	CONDITION		RESPONSE ACTION
Back of switch blade to opposite switch blade at supplementary drive or stretcher, measurement	STD. LEFT		1370 mm to < 1380 mm	A6	Increase monitoring. Prioritise repair
	STD. RIGHT		1380 mm to < 1390 mm	A3	40 km/h TSR until repaired
			1390 mm to < 1400 mm	A2	20 km/h TSR until repaired
	BROAD		≥ 1400 mm	A1	10 km/h TSR until repaired
			1535 mm to < 1545 mm	A6	Increase monitoring. Prioritise repair
			1545 mm to < 1555 mm	A3	40 km/h TSR until repaired
Throat Opening (Back of switch blade to stock rail at the junction of heads)	COMMON		1555 mm to < 1565 mm	A2	20 km/h TSR until repaired
	STANDARD		≥ 1565 mm	A1	10 km/h TSR until repaired
	BROAD		≥ 40 mm	A7	Routine inspection
			35 mm to < 40 mm	A3	40 km/h TSR until repaired
Switch blade and stock rail condition, metal flow	COMMON		< 35 mm	A1	10 km/h TSR until repaired
	STANDARD		>2 mm to 3mm	A6	Increase monitoring. Prioritise repair
	BROAD		>3mm to 4mm	A2	B.G./ S.G. mxd. only 20 km/h TSR until repaired
>4mm		A1	B.G./ S.G. mxd. only 10 km/h TSR until repaired		
Switch blade and stock rail condition, surface condition	COMMON		Visible damage, breakout of cracks, moderate to severe RCF and head checking	A6	Increase monitoring. Prioritise repair
	STANDARD				
	BROAD				
Switch Alignment	COMMON		Bends evident, possible previous repair. Gap to switch stops and/or gap switch blade to stock rail through (excepting toe) 5 -10 mm.	A3	40 km/h TSR until repaired
	STANDARD				
	BROAD		Bent, gaps greater 10 mm	A1	10 km/h TSR until repaired

POINTS INSPECTION					
ELEMENT	MEASURE	COMMENT	CONDITION		RESPONSE ACTION
Switch blade closed gap	COMMON		1 mm to 3 mm	A6	Increase monitoring. Prioritise repair
	STANDARD		>3 mm	A1	10 km/h TSR until repaired
	BROAD				
Broad gauge switchblade against short stock	BROAD		>2 mm	A6	Increase monitoring. Prioritise repair
Switch width at the tip, conventional only	COMMON		3 mm to < 4 mm	A6	Increase monitoring. Prioritise repair
	STANDARD		> 4 mm to < 5 mm	A3	40 km/h TSR until repaired
	BROAD		5 mm or more	A1	10 km/h TSR until repaired
Switch height at the tip, measured using ARTC switch tip gauge, conventional only	COMMON		> 10 mm to < 12 mm	A6	Increase monitoring. Prioritise repair
	STANDARD		> 8 mm to < 10 mm	A3	40 km/h TSR until repaired
	BROAD		8 mm or less	A1	10 km/h TSR until repaired
Switch height at the tip, measured with ruler, conventional only	COMMON		> 12 mm to < 13 mm	A6	Increase monitoring. Prioritise repair
	STANDARD				
	BROAD		12 mm or less	A1	10 km/h TSR until repaired
Switch Tip Wheel Clearance, undercut only	COMMON		2 mm to > 1 mm	A6	Increase monitoring. Prioritise repair
	STANDARD		1 mm to > 0 mm	A3	40 km/h TSR until repaired
	BROAD		0 mm or less	A1	10 km/h TSR until repaired
Switch blade damage	COMMON		50 mm to < 100 mm	A6	Increase monitoring. Prioritise repair
	STANDARD				
	BROAD		> 100 mm	A1	10 km/h TSR until repaired
Stock rail or switch blade gauge wear face angle	COMMON		≤ 22	A7	Routine inspection
	STANDARD		>22 to < 26	A6	Increase monitoring. Prioritise repair
	BROAD		26 or greater	A1	10 km/h TSR until repaired

POINTS INSPECTION					
ELEMENT	MEASURE	COMMENT	CONDITION		RESPONSE ACTION
Fixed and pivot heel blocks	COMMON		Cracked	A3	40 km/h TSR until repaired
	STANDARD		Broken but still effective	A2	20 km/h TSR until repaired
	BROAD		Missing/Broken and ineffective	A1	10 km/h TSR until repaired
Fixed and pivot heel blocks, bolts	COMMON		Missing/ineffective $\leq 2$	A4/A3	60/65 km/h TSR until repaired Heavy Haul 40 km/h TSR until repaired
	STANDARD		Missing/ineffective 3	A3	40 km/h TSR until repaired
	BROAD		Missing/ineffective $>3$	A1	10 km/h TSR until repaired
Anti creep device including bolts	LEFT		Loose cracked but effective.	A6	Increase monitoring. Prioritise repair
	RIGHT		Missing/Broken and ineffective	A6	Increase monitoring. Prioritise repair
Rail brace/chair, slide plates and rollers.	COMMON		1 only - Cracked/loose	A6	Increase monitoring. Prioritise repair
	STANDARD		1 only - Broken/Ineffective	A2	20 km/h TSR until repaired
	BROAD		2 consecutive - cracked / loose / broken / ineffective > 2 consecutive - cracked / loose / broken / ineffective	A1 A1	10 km/h TSR until repaired 10 km/h TSR until repaired
Switch Stops	COMMON		1 only - Cracked/loose	A6	Increase monitoring. Prioritise repair
	STANDARD		1 only - Broken/Ineffective	A2	20 km/h TSR until repaired
	BROAD		2 consecutive - cracked / loose / broken / ineffective > 2 consecutive - cracked / loose / broken / ineffective	A1 A1	10 km/h TSR until repaired 10 km/h TSR until repaired

POINTS INSPECTION					
ELEMENT	MEASURE	COMMENT	CONDITION		RESPONSE ACTION
Spreader bar			Loose fastenings or worn insulators	A6	Increase monitoring. Prioritise repair
			Missing/broken	A1	10 km/h TSR until repaired
Tie Bar Broad Gauge only	Common rail to BG rail		Missing/broken/ineffective	A1	10 km/h TSR until repaired
	BG rail to SG rail		Missing/broken/ineffective	A6	Increase monitoring. Prioritise repair
Gap between BG and SG switch rails	Common rail to BG rail		>100mm	A2	20 km/h TSR until repaired
Switch Blade Support	COMMON		Gaps up to >2mm through blade or >1mm at drive points	A6	Increase monitoring. Prioritise repair
	STANDARD				
	BROAD				

MIDPOINT OF LEAD					
ELEMENT	MEASURE	COMMENT	CONDITION	RESPONSE	
Track gauge (midpoint lead)	STD. LEFT		≥ 1456 mm	-	Assess as per ETS-05-00 Table 5-15
			1445 mm to < 1456 mm	A6	Increase monitoring. Prioritise repair
			1430 mm to < 1445 mm	A7	Routine scheduled inspection
	STD. RIGHT		1427 mm to < 1430 mm	A4	60/65 km/h TSR until repaired
			< 1425 mm	A1	10 km/h TSR until repaired
	BROAD LEFT		≥ 1621 mm	-	Assess as per ETS-05-00 Table 5-15
			1610 mm to < 1621 mm	A6	Increase monitoring. Prioritise repair
			1595 mm to < 1610 mm	A7	Routine scheduled inspection
BROAD RIGHT	1595 mm to < 1590 mm	A2	20 km/h TSR until repaired		
	< 1590 mm	A1	10 km/h TSR until repaired		



FIXED K CROSSING INPSECTION					
ELEMENT	MEASURE	COMMENT	CONDITION	RESPONSE	
Track gauge (at the crossing nose)	STD. K1a		≥ 1443 mm > 1440 mm to < 1443 mm > 1438 mm to 1440 mm > 1430 mm to 1438 mm > 1427 mm to 1430 mm > 1425 mm to 1427 mm 1425 mm and less	A1	10 km/h TSR until repaired
	BROAD K1b		≥ 1608 mm > 1605 mm to < 1608 mm > 1603 mm to 1605 mm > 1597 mm to 1603 mm > 1592 mm to 1597 mm 1592 mm and less	A1	10 km/h TSR until repaired
Gauge from common rail turnout blade to the BG blade opposite just past wheel transfer off the short stock rail; switches set for the turnout			>1485mm	A2	20 km/h TSR until repaired

FIXED K CROSSING INPSECTION						
ELEMENT	MEASURE		COMMENT	CONDITION	RESPONSE	
Check Rail Effectiveness	STD K1a			≥ 1400 mm 1398 mm to < 1400 mm 1396 mm to < 1398 mm 1389 mm to < 1396 mm 1386 mm to < 1389 mm 1384 mm to < 1386 mm 1382 mm to < 1384 mm < 1382 mm	A1	10 km/h TSR until repaired
	BROAD K1a			≥ 1565 mm 1563 mm to < 1565 mm 1561 mm to < 1563 mm 1556 mm to < 1561 mm 1551 mm to < 1556 mm 1549 mm to < 1551 mm 1547 mm to < 1549 mm < 1547 mm	A1	10 km/h TSR until repaired
Crossing nose break width	K1a	K1b		15 mm to 20 mm width 20 mm to 25 mm width > 25 mm wide	A6 A3 A1	Increase monitoring. Prioritise repair 40 km/h TSR until repaired 10 km/h TSR until repaired
Crossing nose condition, metal flow	K1a	K1b		1 mm or more flow	A6	Increase monitoring. Prioritise repair
Crossing nose condition, batter/ hollow	K1a	K1b		2 mm or more hollow / severe	A6	Increase monitoring. Prioritise repair
Crossing nose condition, surface condition	K1a	K1b		Pieces 3mm or more across have fallen from surface	A6	Increase monitoring. Prioritise repair

FIXED K CROSSING INPSECTION						
ELEMENT	MEASURE		COMMENT	CONDITION	RESPONSE	
Crossing Cracks	K1			No cracks Noncritical Critical Fully (not affecting the running surface) Fully (affecting the running surface)	A7 A6 A6 A4 A1	Routine inspection Increase monitoring. Prioritise repair Increase monitoring. Prioritise repair 60/65 km/h TSR until repaired 10 km/h TSR until repaired
Crossing flangeway	K1a	K1b		Visible evidence of flange tips running in dirt. Flangeway obstructed (with ballast etc) or evidence of flange tip running on steel work	A6 A1	Increase monitoring. Prioritise repair 10 km/h TSR until repaired
Crossing spacer blocks	K1			Cracked Broken but still effective Missing/Broken and ineffective	A4/A3 A3 A1	60/65 km/h TSR until repaired Heavy Haul 40 km/h TSR until repaired 40 km/h TSR until repaired 10 km/h TSR until repaired
Crossing spacer blocks, bolts	K1			Single or multiple bolts loose yet effective Missing/ineffective ≤2 Missing/ineffective 3 Missing/ineffective >3	A6 A4/A3 A3 A1	Increase monitoring. Prioritise repair 60/65 km/h TSR until repaired Heavy Haul 40 km/h TSR until repaired 40 km/h TSR until repaired 10 km/h TSR until repaired
Check rail flangeway	K1a	K1b		>49 mm 48 mm to 49 mm 40 mm to < 46 mm 38 mm to < 40 mm  < 38 mm	A4 A6 A7 A6  A4	60/65 km/h TSR until repaired Increase monitoring. Prioritise repair No action Increase monitoring. Prioritise repair  60/65 km/h TSR until repaired

FIXED K CROSSING INPSECTION						
ELEMENT	MEASURE		COMMENT	CONDITION	RESPONSE	
Check rail flare	STD K1a	STD K1b		1360 mm to < 1365 mm 1365 mm to < 1370 mm ≥ 1370 mm	A6 A3 A1	Increase monitoring. Prioritise repair 40 km/h TSR until repaired 10 km/h TSR until repaired
Check rail spacer blocks	K1			Cracked Broken but still effective Missing/Broken and ineffective	A4/A3 A3 A1	60/65 km/h TSR until repaired Heavy Haul 40 km/h TSR until repaired 40 km/h TSR until repaired 10 km/h TSR until repaired
Check rail spacer blocks, bolts	K1			Missing/ineffective ≤2 Missing/ineffective 3 Missing/ineffective >3 or missing end bolt in check rail.	A4/A3 A3 A1	60/65 km/h TSR until repaired Heavy Haul 40 km/h TSR until repaired 40 km/h TSR until repaired 10 km/h TSR until repaired

FIXED V CROSSING INPSECTION						
ELEMENT	MEASURE		COMMENT	CONDITION	RESPONSE	
Track gauge (at the crossing nose)	STD LEFT V1	STD LEFT V2		≥ 1443 mm	A1	10 km/h TSR until repaired
				> 1440 mm to < 1443 mm	A4	60/65 km/h TSR until repaired
				> 1438 mm to 1440 mm	A6	Increase monitoring. Prioritise repair
				> 1430 mm to 1438 mm	A7	No action
	STD RIGHT V1	STD RIGHT V2		> 1427 mm to 1430 mm	A6	60/65 km/h TSR until repaired
				> 1425 mm to 1427 mm	A2	20 km/h TSR until repaired
				1425 mm and less	A1	10 km/h TSR until repaired
	BROAD V1	BROAD V2		≥ 1608 mm	A1	10 km/h TSR until repaired
				> 1605 mm to < 1608 mm	A4	60/65 km/h TSR until repaired
				> 1603 mm to 1605 mm	A6	Increase monitoring. Prioritise repair
				> 1597 mm to 1603 mm	A7	No action
			> 1592 mm to 1597 mm	A6	60/65 km/h TSR until repaired	
			1592 mm and less	A1	10 km/h TSR until repaired	

FIXED V CROSSING INSPECTION							
ELEMENT	MEASURE		COMMENT	CONDITION	RESPONSE		
Check Rail Effectiveness	STD LEFT V1	STD LEFT V2		≥ 1400 mm	A1	10 km/h TSR until repaired	
				1398 mm to < 1400 mm	A3	40 km/h TSR until repaired	
				1396 mm to < 1398 mm	A4	60/65 km/h TSR until repaired	
				1389 mm to < 1396 mm	A7	No action	
				1386 mm to < 1389 mm	A6	Increase monitoring. Prioritise repair	
				1384 mm to < 1386 mm	A4	60/65 km/h TSR until repaired	
				1382 mm to < 1384 mm	A3	40 km/h TSR until repaired	
				< 1382 mm	A1	10 km/h TSR until repaired	
		STD RIGHT V1	STD RIGHT V2		≥ 1565 mm	A1	10 km/h TSR until repaired
				1563 mm to < 1565 mm	A3	40 km/h TSR until repaired	
				1561 mm to < 1563 mm	A4	60/65 km/h TSR until repaired	
				1556 mm to < 1561 mm	A7	No action	
				1551 mm to < 1556 mm	A6	Increase monitoring. Prioritise repair	
				1549 mm to < 1551 mm	A4	60/65 km/h TSR until repaired	
				1547 mm to < 1549 mm	A3	40 km/h TSR until repaired	
					< 1547 mm	A1	10 km/h TSR until repaired
	BROAD V1	BROAD V2		≥ 1565 mm	A1	10 km/h TSR until repaired	
			1563 mm to < 1565 mm	A3	40 km/h TSR until repaired		
			1561 mm to < 1563 mm	A4	60/65 km/h TSR until repaired		
			1556 mm to < 1561 mm	A7	No action		
			1551 mm to < 1556 mm	A6	Increase monitoring. Prioritise repair		
			1549 mm to < 1551 mm	A4	60/65 km/h TSR until repaired		
			1547 mm to < 1549 mm	A3	40 km/h TSR until repaired		
			< 1547 mm	A1	10 km/h TSR until repaired		

FIXED V CROSSING INSPECTION						
ELEMENT	MEASURE		COMMENT	CONDITION	RESPONSE	
Crossing nose break width	V1	V2		15 mm to 20 mm width	A6	Increase monitoring. Prioritise repair
				20 mm to 25 mm width	A3	40 km/h TSR until repaired
				> 25 mm wide	A1	10 km/h TSR until repaired
Crossing nose condition, metal flow	V1	V2		1 mm or more flow	A6	Increase monitoring. Prioritise repair
Crossing nose condition, batter/ hollow	V1	V2		2 mm or more hollow / severe	A6	Increase monitoring. Prioritise repair
Crossing nose condition, surface condition	V1	V2		Pieces 3mm or more across have fallen from surface	A6	Increase monitoring. Prioritise repair
Crossing Cracks	V1	V2		No cracks	A7	Routine inspection
				Noncritical	A6	Increase monitoring. Prioritise repair
				Critical	A6	Increase monitoring. Prioritise repair
				Fully (not affecting the running surface)	A4	60/65 km/h TSR until repaired
				Fully (affecting the running surface)	A1	10 km/h TSR until repaired
Crossing flangeway	LEFT V1	LEFT V2		Visible evidence of flange tips running in dirt.	A6	Increase monitoring. Prioritise repair
	RIGHT V1	RIGHT V2		Flangeway obstructed (with ballast etc) or evidence of flange tip running on steel work	A1	10 km/h TSR until repaired
Crossing spacer blocks	V1	V2		Cracked	A4/A3	60/65 km/h TSR until repaired Heavy Haul 40 km/h TSR until repaired
				Broken but still effective	A3	40 km/h TSR until repaired
				Missing/Broken and ineffective	A1	10 km/h TSR until repaired

FIXED V CROSSING INPSECTION						
ELEMENT	MEASURE		COMMENT	CONDITION	RESPONSE	
Crossing spacer blocks, bolts	V1	V2		Single or multiple bolts loose yet effective	A6	Increase monitoring. Prioritise repair
				Missing/ineffective ≤2	A4/A3	60/65 km/h TSR until repaired Heavy Haul 40 km/h TSR until repaired
				Missing/ineffective 3	A3	40 km/h TSR until repaired
				Missing/ineffective >3	A1	10 km/h TSR until repaired
Wing rail vertical wear	LEFT V1	LEFT V2		5 mm to 10 mm	A6	Increase monitoring. Prioritise repair
	RIGHT V1	RIGHT V2		>10 mm	A3	40 km/h TSR until repaired
Wing Rail Condition, metal flow	LEFT V1	LEFT V2		1mm or more flow	A6	Increase monitoring. Prioritise repair
	RIGHT V1	RIGHT V2				
Wing Rail Condition, surface condition	LEFT V1	LEFT V2		Pieces 3mm or more across have fallen from surface	A6	Increase monitoring. Prioritise repair
	RIGHT V1	RIGHT V2				
Wing Rail flare	STD. LEFT V1	STD. LEFT V2		1360 mm to < 1365 mm	A6	Increase monitoring. Prioritise repair
				1365 mm to < 1370 mm	A3	40 km/h TSR until repaired
	STD. RIGHT V1	STD. RIGHT V2		≥ 1370 mm	A1	10 km/h TSR until repaired
	BROAD V1	BROAD V2		1525 mm to < 1530 mm	A6	Increase monitoring. Prioritise repair
				1530 mm to < 1535 mm	A3	40 km/h TSR until repaired
				≥ 1535 mm	A1	10 km/h TSR until repaired



FIXED V CROSSING INSPECTION						
ELEMENT	MEASURE		COMMENT	CONDITION	RESPONSE	
Check rail flangeway	LEFT V1	LEFT V2		>49 mm	A4	60/65 km/h TSR until repaired
	RIGHT V1	RIGHT V2		48 mm to 49 mm	A6	Increase monitoring. Prioritise repair
				40 mm to < 46 mm	A7	No action
				38 mm to < 40 mm	A6	Increase monitoring. Prioritise repair
				< 38 mm	A4	60/65 km/h TSR until repaired
Check rail flare	STD. LEFT	STD. LEFT		1360 mm to < 1365 mm	A6	Increase monitoring. Prioritise repair
	STD. RIGHT	STD. RIGHT		1365 mm to < 1370 mm	A3	40 km/h TSR until repaired
				≥ 1370 mm	A1	10 km/h TSR until repaired
	BROAD V1	BROAD V2		1525 mm to < 1530 mm	A6	Increase monitoring. Prioritise repair
				1530 mm to < 1535 mm	A3	40 km/h TSR until repaired
				≥ 1535 mm	A1	10 km/h TSR until repaired
Check rail spacer blocks	V1	V2		Cracked	A4/A3	60/65 km/h TSR until repaired Heavy Haul 40 km/h TSR until repaired
				Broken but still effective	A3	40 km/h TSR until repaired
				Missing/Broken and ineffective	A1	10 km/h TSR until repaired
Check rail spacer blocks, bolts	V1	V2		Missing/ineffective ≤2	A4/A3	60/65 km/h TSR until repaired Heavy Haul 40 km/h TSR until repaired
				Missing/ineffective 3	A3	40 km/h TSR until repaired
				Missing/ineffective >3 or missing end bolt in check rail.	A1	10 km/h TSR until repaired