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SERVICE BULLETIN

MAINTENANCE OF WAY EQUIPMENT

DATE: 08 – 2026

BULLETIN NO: SBUS000146-26

TITLE: P811S RAIL SWEEP ON GANTRY

RATING:

☐

DIRECTIVE
(Action Is Required)

☐

ALERT
(Potential Problem)

☒

INFORMATION
(Action Is Optional)

☐

PRODUCT IMPROVEMENT
(Enhance Product)

PRODUCT SERIES / MODEL: P811S

SERIAL NO: 6112139, 6112149, 6112159, 6122392, 6122402, 6122412, 6122422, 6122432
AND 6122442.

SUMMARY:

The purpose of this Service Bulletin is to communicate an engineering safety enhancement implemented on the India Track Relaying Train (P811) to further mitigate the risk of hand and finger injuries during gantry movement associated with sleeper replacement operations.

As part of Harsco Rail India's continuous commitment to improving operational safety and machine reliability, a Rail Sweeper Arrangement has been developed and incorporated as an engineered safety feature. This enhancement is designed to minimize personnel exposure to potential pinch-point and trapping hazards in the gantry operating area while supporting safe and efficient sleeper replacement activities.

The Rail Sweeper Arrangement is intended to complement existing operational procedures, risk control measures, and established safe work practices. It provides an additional layer of engineering protection to enhance operator safety without altering the prescribed operating methodology of the machine.

This Service Bulletin outlines the purpose, application, installation requirements, and operational considerations associated with this safety enhancement to ensure its effective implementation across applicable India TRT (P811) machines.

OPERATIONAL IMPACT:

During Track Relaying Train (TRT) operations, the gantries travel continuously along the gantry rails while transporting sleepers between the loading and unloading stations. During machine operation, personnel may occasionally be required to work in the vicinity of the gantry system for inspection, maintenance, or operational support activities.

Harsco Rail India has established comprehensive safety procedures to mitigate the risk of personnel injury during TRT operations. All Harsco personnel receive mandatory safety training and are regularly instructed to ensure that no part of the body, particularly hands and fingers, is placed on or near the gantry rails while the machine is in operation. These requirements are reinforced through routine toolbox talks, pre-job safety briefings, documented work instructions, and clearly visible warning signage installed at designated locations on the machine.

In addition, Harsco personnel are responsible for briefing contractor personnel and labors on these safety requirements before the commencement of work. However, field observations have indicated that, despite these preventive measures, unskilled or inexperienced contractor laborers may occasionally and inadvertently place their hands or fingers on or near the gantry rail while performing work activities. Such actions are contrary to established operating and safety procedures but represent a foreseeable human-factor risk that warrants additional engineering safeguards.

In accordance with the hierarchy of risk controls and Harsco Rail India's commitment to continuous safety improvement, an engineered Rail Sweeper Arrangement has been developed and implemented on the India TRT (P811) gantries. This safety enhancement is designed to provide an additional layer of protection by reducing the likelihood and severity of hand and finger injuries resulting from inadvertent personnel contact within the gantry travel path. The Rail Sweeper Arrangement is intended to supplement, and not replace, existing safe work practices, operator vigilance, mandatory safety training, and established operational procedures.

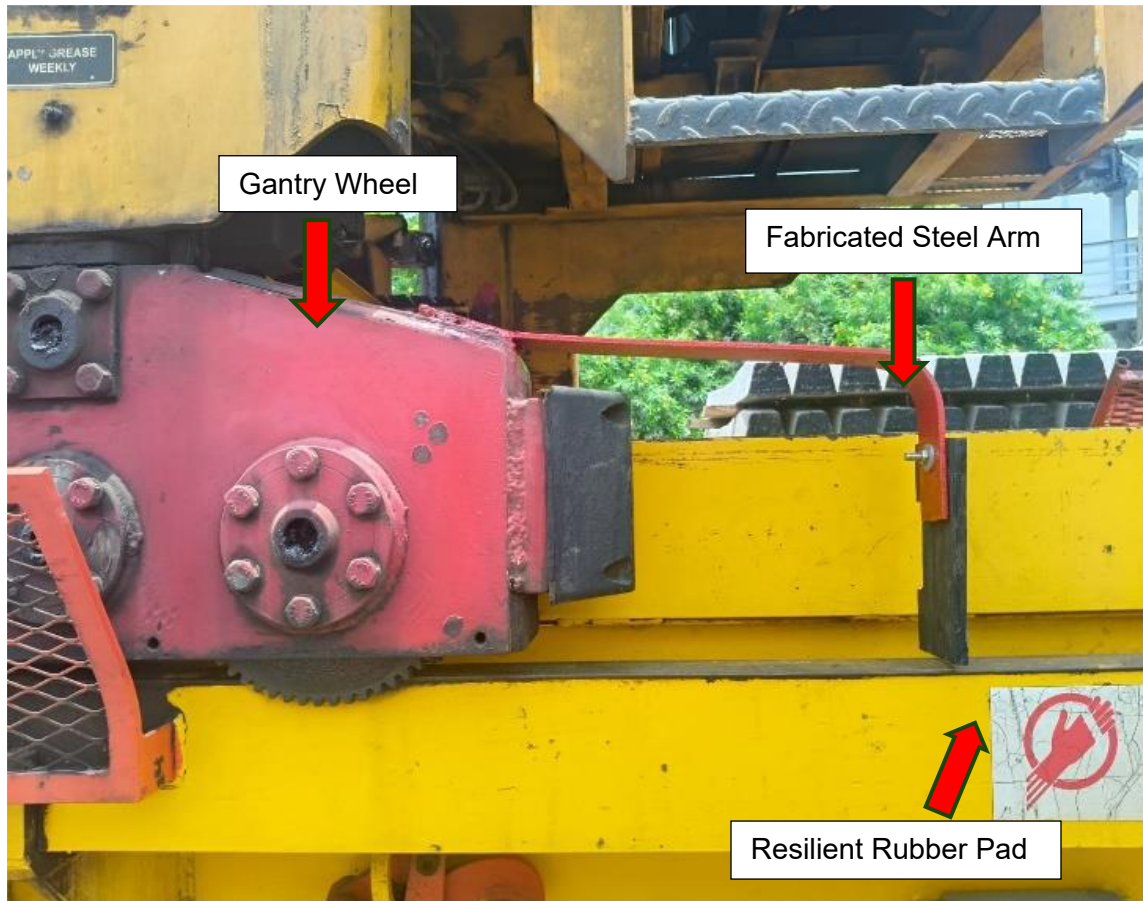


Figure 1: Rail Sweeper Arrangement Installed on Outer Gantry Wheel

The existing warning signage on the gantry rail reinforces the instruction to keep hands clear during machine operation.

ACTION:

Weld the rail sweep on the outer gantry by referring to the following drawings:

1. 5154580 - BRACKET, RAIL SWEEP
2. 5154581 – RUBBER PAD, RAIL SWEEP
3. 5154666 – RAIL SWEEP

CONTACT: Harsco Rail Service Department
Please contact Kelly Gardner - kgardner@harsco.com

SAFETY INFORMATION



- Follow applicable railroad lockout - tagout procedure to remove machine from energy source. Failure to comply could result in severe bodily injury.
- Refer to energy control procedure to remove all energy sources from machine before performing maintenance or making adjustments or repairs to machine.

Failure to heed these warnings could result in severe bodily injury or death.

ENGINEERING SAFETY IMPROVEMENT

The **Rail Sweeper Arrangement** has been installed on both outer gantry wheels, on both sides of the India Track Relaying Train (P811), to provide an additional engineered safety safeguard during gantry movement.

The arrangement comprises a robust fabricated steel mounting arm fitted with a resilient rubber contact pad positioned ahead of each gantry wheel in the direction of travel. The geometry of the assembly ensures that the rubber pad is the first component to encounter any obstruction located on the gantry rail before the gantry wheel reaches the same position.

In the unlikely event that a person's hand or fingers are inadvertently placed on the gantry rail during machine operation, the resilient rubber contact pad is intended to establish initial contact prior to the gantry wheel. This controlled initial contact serves as an early tactile warning, providing the individual with valuable reaction time to withdraw their hand or fingers from the line-of-fire area before the gantry wheel reaches the obstruction.

The resilient characteristics of the rubber contact pad help to minimize the severity of the initial contact while functioning as an effective passive warning device. As an engineered risk-reduction measure, the Rail Sweeper Arrangement provides an additional layer of personnel protection by mitigating the consequences of inadvertent human error and significantly reducing the potential for hand and finger injuries associated with gantry movement.

Important: The Rail Sweeper Arrangement is a supplementary engineering safety feature and is **not** intended to replace established safe work practices, mandatory personnel training, operational vigilance, warning signage, or compliance with approved operating and maintenance procedures. Personnel shall continue to maintain a safe distance from the gantry travel path and shall never place any part of the body on or near the gantry rail while the machine is in operation.

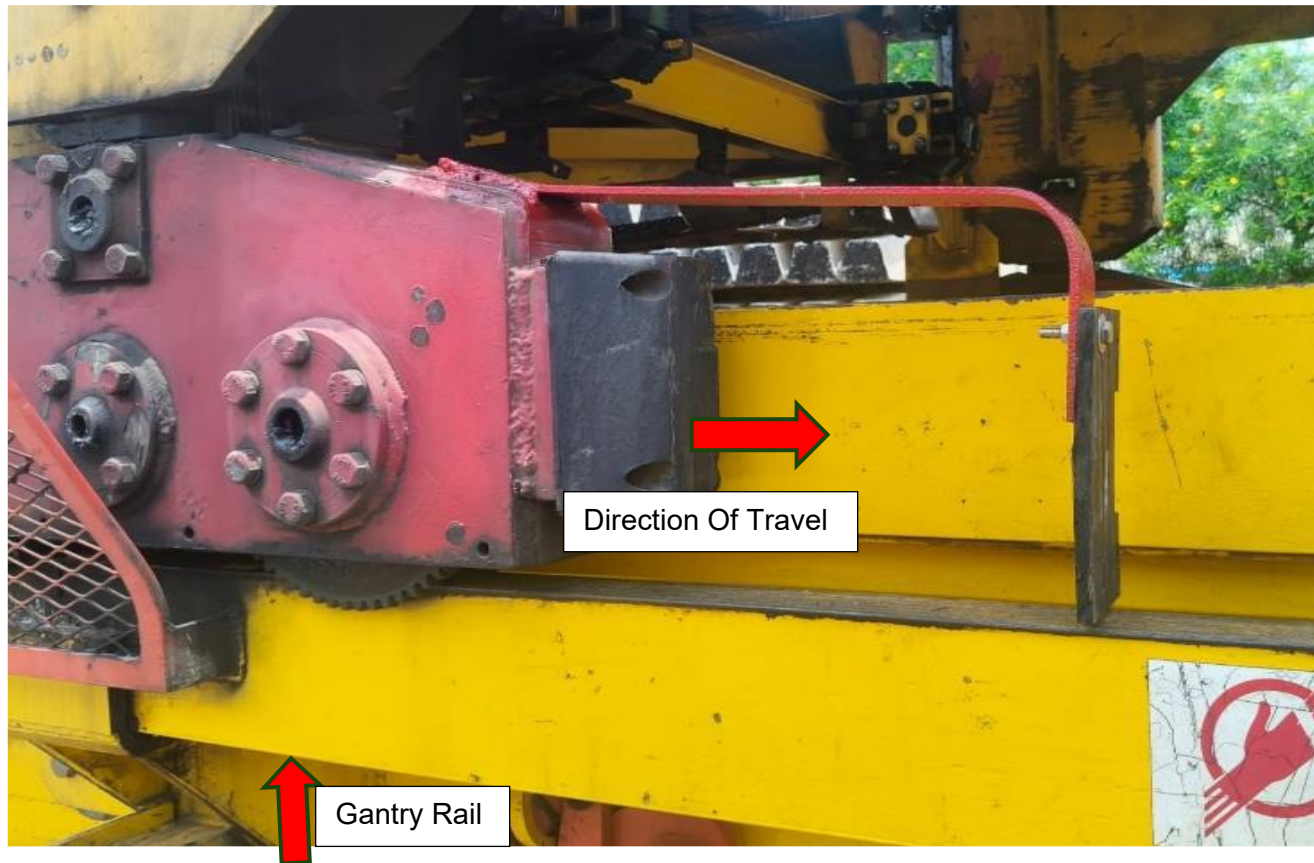


Figure 2: Close-up View of Rail Sweeper Arrangement

****The resilient rubber pad positioned ahead of the gantry wheel to provide early warning before wheel contact. ****

OPERATIONAL BENEFITS

The Rail Sweeper Arrangement provides several important operational safety benefits:

- Introduces an additional engineering safeguard during gantry movement.
- Provides early physical warning if an obstruction is present on the gantry rail.
- Allows additional reaction time for personnel to withdraw their hands from the hazard zone.
- Reduces the potential for hand and finger injuries during sleeper replacement operations.
- Complement existing personnel training, warning signage, and safe work practices.
- Supports Harsco Rail India's continuous improvement initiatives in machine safety and risk reduction.

CONCLUSION

At Harsco Rail India, safety is engineered into every stage of machine design and continuous product development. Guided by global engineering standards and a commitment to operational excellence, Harsco Rail India continuously invests in innovative solutions that enhance personnel safety, improve equipment reliability, and maximize the performance of Track Relaying Train (TRT) systems.

The introduction of the Rail Sweeper Arrangement on the India TRT (P811) exemplifies this philosophy. By incorporating an additional engineered safeguard based on field experience and risk assessment, Harsco Rail India has further strengthened the machine's safety architecture. This enhancement provides an additional layer of passive protection by reducing the potential consequences of inadvertent human interaction with the gantry travel path, while complementing existing safe work practices, operator training, warning systems, and established operational procedures.

This engineering enhancement demonstrates Harsco Rail India's proactive approach to hazard mitigation through the application of the hierarchy of controls, where engineered safety solutions are implemented to reduce reliance solely on administrative controls and human behavior. The Rail Sweeper Arrangement is designed to improve overall risk management without compromising machine productivity, operational efficiency, or maintainability.

Through continuous innovation, customer collaboration, and engineering excellence, Harsco Rail India remains committed to delivering world-class railway maintenance solutions that set new benchmarks in safety, reliability, lifecycle performance, and operational value. The Rail Sweeper Arrangement is another example of Harsco Rail India's dedication to advancing railway maintenance technology while ensuring the highest standards of personnel protection and operational integrity.

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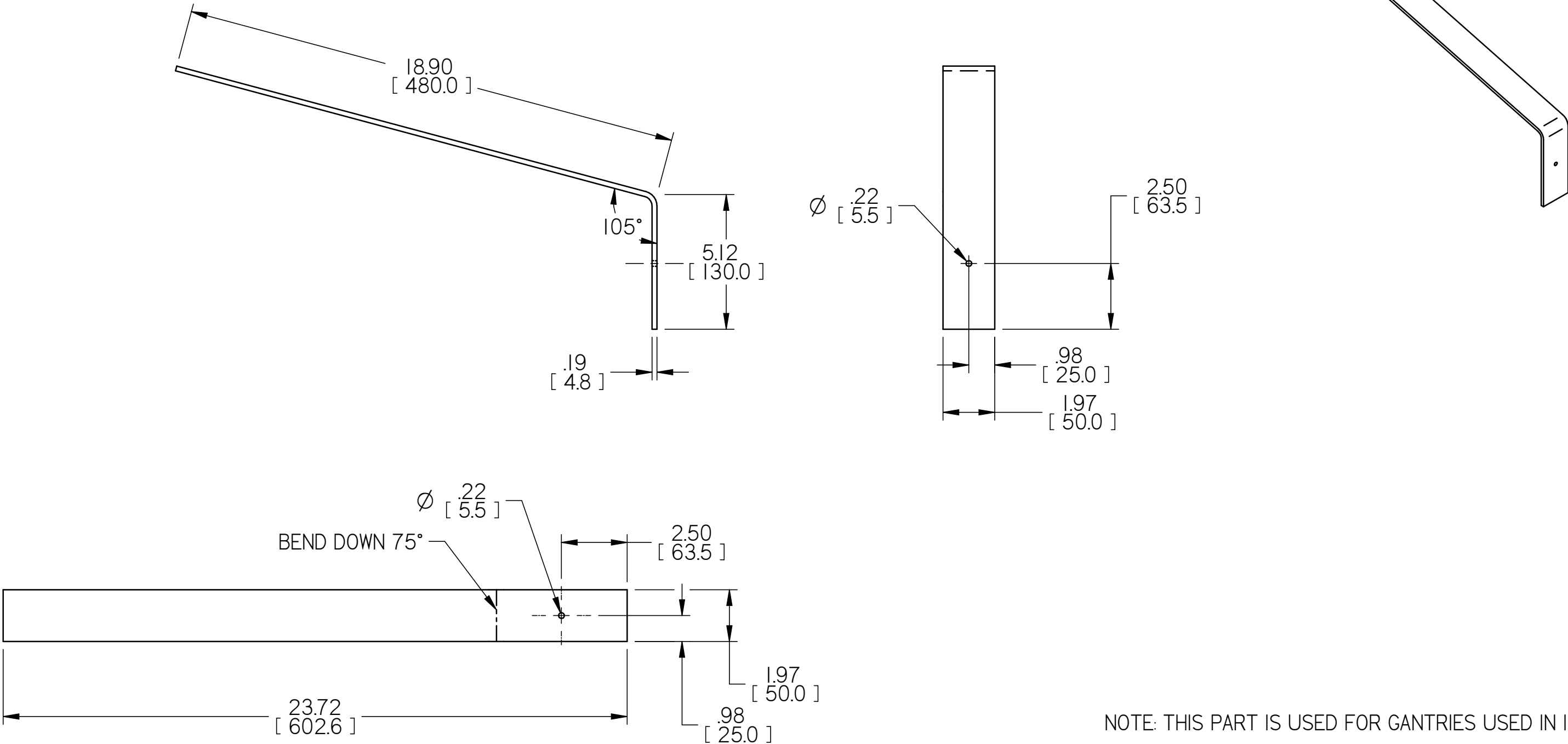
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FLAT PATTERN

NOTE: THIS PART IS USED FOR GANTRIES USED IN INDIA.

UNLESS OTHERWISE SPECIFIED:								CHANGE	R/L	REVISION		DR	DATE	Description		HARSCO RAIL	
1. REMOVE BURRS AND BREAK SHARP EDGES								EC622393	A	NEW RELEASE		SRK	07/23/26	BRACKET, RAIL SWEEP			
2. ALL MACHINED SURFACES WILL HAVE: A SURFACE FINISH OF 125 MICROINCHES ANGULAR TOLERANCE OF ± .50° CONCENTRICITY WITHIN .010														Material		Machine Type	P811S
3. ALL WELDS SHOULD ADHERE TO THE MOST CURRENT A.W.S. WELDING STANDARDS														Weight		Drawn	rionescu
4. TORQUE ALL FASTENERS PER STD-1603D														Date Drawn		7/8/2026	Part Number
THIRD ANGLE PROJECTION														SOLID EDGE DRAWING		5154580	
DRAFTED PER HARSCO RAIL STANDARD STD-1601D														DO NOT SCALE		1 of 1	

Inch [mm]

Size B

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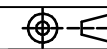
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NOMINAL SIZE RANGE		INCH PLUS OR MINUS		NOMINAL SIZE RANGE		METRIC PLUS OR MINUS	
OVER	TO	2 PLACE DECIMAL	3 PLACE DECIMAL	OVER	TO	1 PLACE DECIMAL	2 PLACE DECIMAL
0	6	.03	.005	0	150	.8	.13
6	24	.04	.008	150	600	1.0	.20
24	-	.06	.010	600	-	1.5	.25

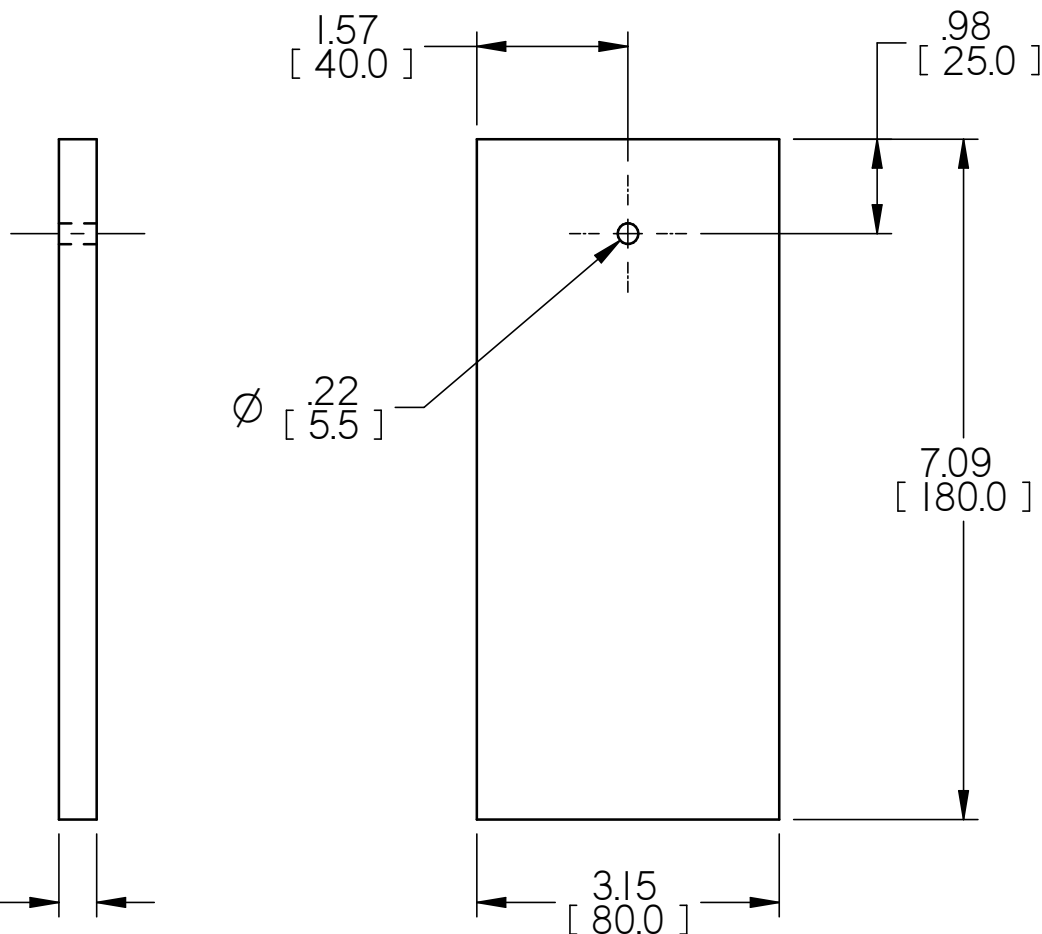
- UNLESS OTHERWISE SPECIFIED:
1. REMOVE BURRS AND BREAK SHARP EDGES
 2. ALL MACHINED SURFACES WILL HAVE:
A SURFACE FINISH OF 125 MICROINCHES
ANGULAR TOLERANCE OF $\pm .50^\circ$
CONCENTRICITY WITHIN .010
 3. ALL WELDS SHOULD ADHERE TO THE MOST
CURRENT A.W.S WELDING STANDARDS
 4. TORQUE ALL FASTENERS PER STD-1603D



THIRD ANGLE PROJECTION

DRAFTED PER HARSCO RAIL STANDARD

STD-1601D



NOTE:
1. FOR USE ON GANTRY IN INDIA.
2. MATERIAL : RUBBER DURO 60.

Inch
[mm]

CHANGE	R/L	REVISION	DR	DATE	Description	Machine Type		Size
EC622393	A	NEW RELEASE	SRK	07/24/26	RUBBER PAD, RAIL SWEEP	P811S		A
					Material	SEE NOTE, ;		
					Weight	0.1 lbm	Drawn	rionescu
							Date Drawn	7/8/2026
					SOLID EDGE DRAWING		DO NOT SCALE	
					Part Number		5154581	
							Sheet	
							1 of 1	

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E

D

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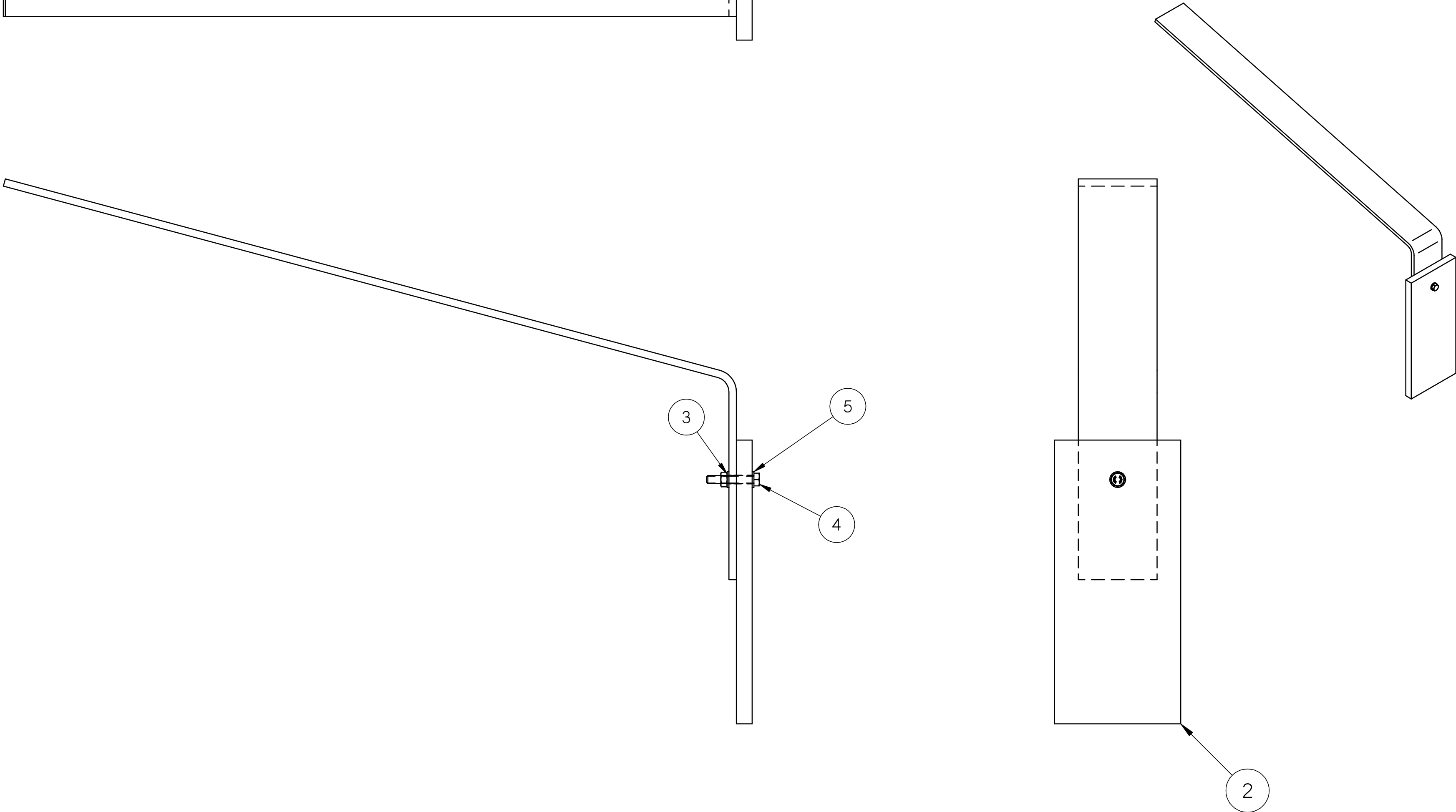
D

C

B

A

ITEM	PART NO	QTY	DESCRIPTION
1	5154580	1	BRACKET, RAIL SWEEP
2	5154581	1	RUBBER PAD, RAIL SWEEP
3	252028-29	1	NUT- HEX, COARSE, CLASS 8, M5X0.8 ZINC
4	250202-47	1	SCREW-HHC, COARSE, M5X0.8 P X 30 MM LG
5	252029-16	2	WASHER, FLAT, M5, DINI25, YZP



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GENERAL TOLERANCES INCH / (METRIC)					UNLESS OTHERWISE SPECIFIED:	
NOMINAL	SIZE RANGE	FABRICATION & WELDING TOLERANCES UNLESS OTHERWISE SPECIFIED	FLATNESS	PARALLELISM & PERPENDICULARITY	ANGULAR (DEGREE)	1. FEATURES ENCLOSED IN ARE KEY CHARACTERISTICS. 2. REMOVE BURRS AND BREAK SHARP EDGES. 3. ALL WELDS SHOULD ADHERE TO THE MOST CURRENT A.W.S. WELDING STANDARDS.
OVER	TO	2 PLACE DECIMAL INCH DIMENSIONS				
0	6 / (153)	±.03 / (0.76)	.03 / (0.76)	.03 / (0.76)	±.1.0	
6 / (153)	48 / (1220)	±.06 / (1.52)	.06 / (1.52)	.12 / (3.18)	±.1.0	
48 / (1220)	96 / (2439)	±.12 / (3.05)	.19 / (4.82)	.19 / (4.82)	±.75	
ABOVE 96 / (2439)		±.12 ±.06 PER 120 / (3.05 ±.06 PER 3048)	.19 ±.06 PER 120 / (4.82 ±.06 PER 3048)	.25 / (6.35)	±.50	
HARSCO STANDARDS					ENGINEERING DRAFTING STANDARD	STD - 1601D
					FASTENER TORQUE STANDARD	STD - 1603D
					FITTING TORQUE STANDARD	STD - 1369
					THIRD ANGLE PROJECTION	

CHANGE	R/L	REVISION	DR	DATE
EC622393	A	NEW RELEASE	SRK	07/27/26

Description				HARSCO	
RAIL SWEEP				RAIL	
Material -			Machine Type P811S		Size
Weight 2.6 lbm	Drawn skumar	Date Drawn 7/27/2026	Part Number		C
SOLID EDGE DRAWING		DO NOT SCALE	5154666		Sheet 1 of 1

Inch
[mm]