

RAIL BLOCKS C €

Part No. 11-18X | 11-19X | 70-1000X

INSTALLATION INSTRUCTIONS

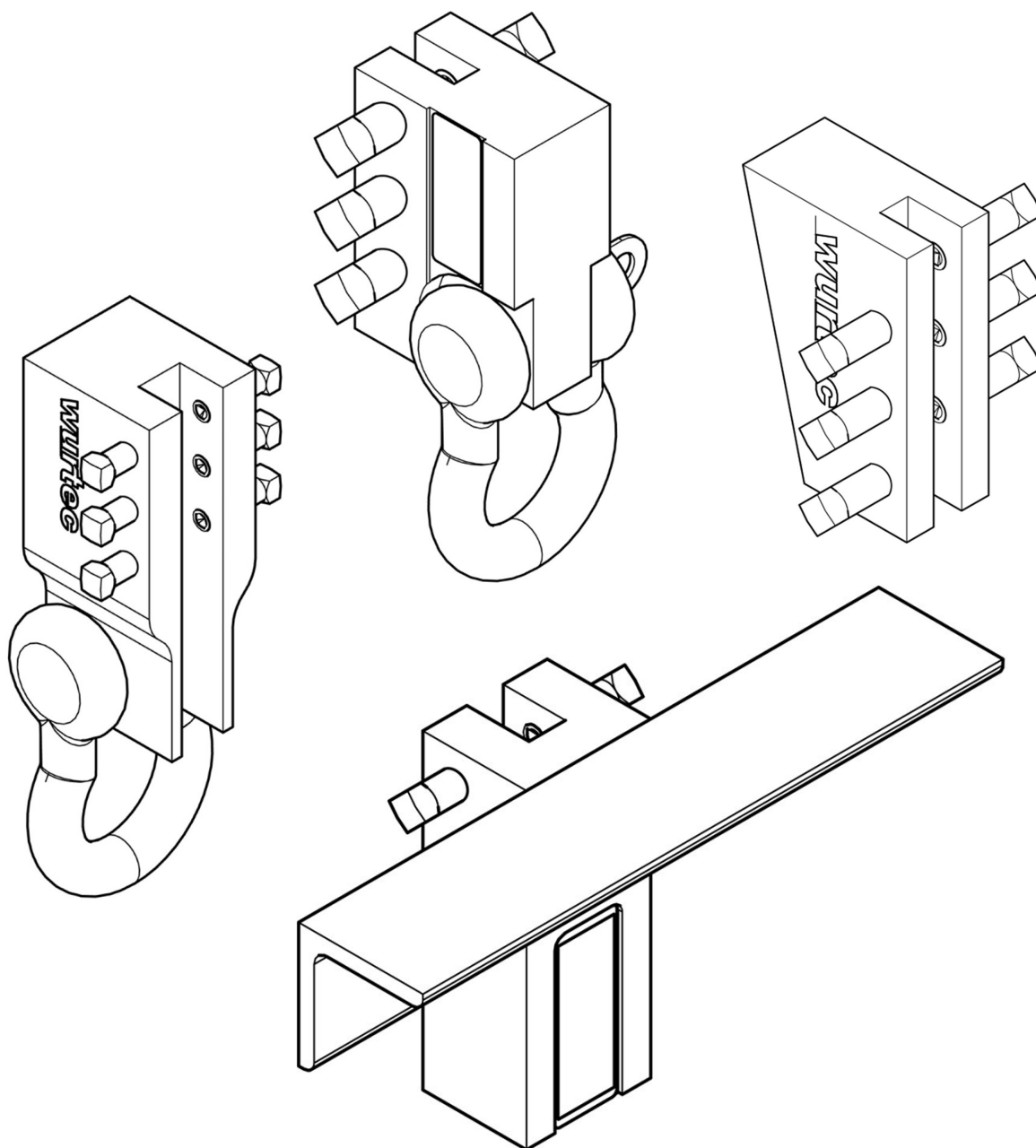


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PRODUCT INFORMATION & SAFETY WARNINGS

PRODUCT WARRANTY & INFORMATION



Scan the QR code to view detailed warranty information at wurtec.com. For questions or product support, contact Wurtec Customer Service at 1-800-837-1066. If a Declaration of Conformity is available for this product, it can be downloaded from its product page on wurtec.com.

EQUIPMENT DESCRIPTION & INTENDED USE

Wurtec's rail blocks have a simple design that allows for quick installation onto a rail. Simply push the rail block onto the rail, then tighten the set screws to the prescribed torque.

Once installed, Wurtec's rail blocks can be used to lift loads, build cars, as a secure space to rest a car or counterweight frame on, or hold support beams in place while building a platform.

WARNING

EXCLUSION OF LIABILITY

This equipment should only be installed and serviced by trained personnel. This manual is a guide, not a substitute for formal training, and may not cover every scenario or condition of use. Wurtec reserves the right to change product design and specifications without notice.

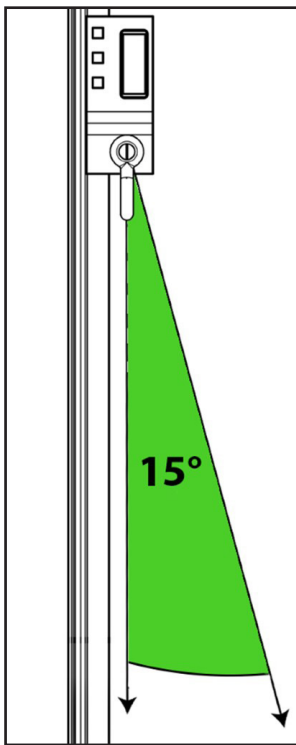
FAILURE TO COMPLY WITH THE FOLLOWING GUIDELINES CAN RESULT IN DEATH OR SERIOUS INJURY:

- To prevent overhead loads from falling, ensure the rail blocks are installed correctly and used according to guidelines outlined in this document.
- Use the specification table to verify the rail block type and capacity before installation.
- Always use rail blocks in pairs.
- Tighten all six set screws to the prescribed torque, 70 ft-lbs (94 nm) for 5/8" bolts and 250 ft-lbs (340 nm) for 1" bolts.
- Inspect the rail block, shackle, and set screws before installing. Replace any parts that are worn out or damaged.
- Replace the rail block's set screws after each use.
- Rail Blocks should only be used with the hardware included. Do not use alternate hardware. Contact a Wurtec customer service representative to order replacement parts.
- Ensure the hoistway is clear before installation.

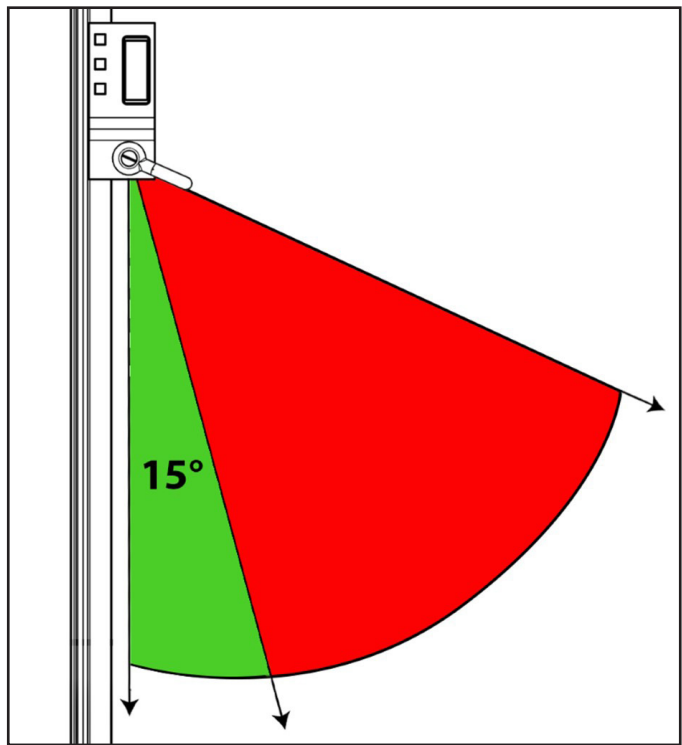
WARNING

FAILURE TO COMPLY WITH THE FOLLOWING GUIDELINES CAN RESULT IN DEATH OR SERIOUS INJURY:

- When placing the rail block onto the rail, ensure the back is flush with the rail. Misalignment or inversion may result in failure.
- When using rope/chain with rail blocks, ensure the rope is of adequate strength for the load.
- Do not allow anyone to stand under or near the load during hoisting.
- Rail blocks are designed to have all of their load applied to the shackle, with the shackle hanging downwards in the hoistway. Loads should be applied up to 15 degrees of a true vertical load. Rail blocks can fail if the shackle is loaded at more than 15 degrees.



**SAFE USAGE - Shackle with Maximum,
15° Vertical Load**



UNSAFE USAGE- Incorrect Use of Shackle

WARNING

SPECIFICATION TABLE

Use the following table to determine the correct rail block type and size for your application. Using the wrong size/type of rail block can lead to rail block failure.

Part No.	ISO Code	Rail Blade Width (in • mm)	Weight (lb • kg)	WLL Per Pair (lb • kg)	Rail Weight (lbs / ft)	Set Screw Size (in)	Bolt Torque (ft-lbs / N-m)
Standard Rail Blocks							
11-180	T89 T127-1 T127-2	5/8 • 16	10.4 • 4.7	25000 • 11340	8, 12, 15	5/8-11 - 1 3/4"	70/94
11-181	T140-1	3/4 • 19	15.6 • 7	25000 • 11340	18	5/8-11 - 1 3/4"	70/94
11-183	T140-2 T140-3	1-1/8 to 1-1/4 • 29 to 32	17.2 • 7.8	25000 • 11340	22, 30	5/8-11 - 1 3/4"	70/94
Car Building Rail Blocks							
11-185	T89 T127-1 T127-2 T140-1	5/8 to 3/4 • 16 to 19	22.3 • 10.1	25000 • 11340	8, 12, 15, 18	5/8-11 - 1 3/4"	70/94
11-185-04	T89 T127-1 T127-2 T140-1	5/8 to 3/4 • 16 to 19	35.9 • 16.3	15000 • 6804	8, 12, 15, 18	5/8-11 - 1 3/4"	70/94
11-186	T140-2 T140-3	1-1/8 to 1-1/4 • 29 - 32	23.5 • 10.6	25000 • 11340	22, 30	5/8-11 - 1 3/4"	70/94
11-187	T89 T127 T127-2 T140-1	5/8 to 3/4 • 16 to 19	16.8 • 7.6	25000 • 11340	8, 12, 15, 18	5/8-11 - 1 3/4"	70/94

WARNING

SPECIFICATION TABLE

Use the following table to determine the correct rail block type and size for your application. Using the wrong size/ type of rail block can lead to rail block failure.

Part No.	ISO Code	Rail Blade Width (in • mm)	Weight (lb • kg)	WLL Per Pair (lb • kg)	Rail Weight (lbs / ft)	Set Screw Size (in)	Bolt Torque (ft-lbs / N-m)
Rail Block with Clevis							
11-190-M	T89 T127-1 T127-2	5/8 • 16	20.2 • 9.2	25000 • 11340	8, 12, 15	5/8-11 - 1 3/4"	70/94
11-191	T140-1	3/4 • 19	33.3 • 15.1	25000 • 11340	18	5/8-11 - 1 3/4"	70/94
11-191-M	T140-1	3/4 • 19	28.5 • 12.9	25000 • 11340	18	5/8-11 - 1 3/4"	70/94
11-193	T140-2 T140-3	1-1/8 to 1-1/4 • 29 to 32	33.7 • 15.3	25000 • 11340	22, 30	5/8-11 - 1 3/4"	70/94
11-193-M	T140-2 T140-3	1-1/8 to 1-1/4 • 29 to 32	28.5 • 12.9	25000 • 11340	22, 30	5/8-11 - 1 3/4"	70/94
70- 10002008	T70-2 T75-3	5/16 to 3/8 • 8 to 10	14 • 6.4	14000 • 6350	5,6	5/8-11 - 1 3/4"	70/94
Heavy Duty Rail Blocks with Clevis							
70- 10008459	T127-1 T127-2 T140-1	5/8 • 16 3/4 • 19	35.7 • 16.2	35000 • 15875	8, 12, 15, 19	1-8 - 2"	250/340
70- 10001612	T140-2 T140-3	1-1/8 to 1-1/4 • 29 to 32	41.4 • 18.8	35000 • 15875	22,30	1-8 - 2"	250/340

INSTALLATION / ASSEMBLY TOOLS REQUIRED

The following are the minimum required tools for installation:

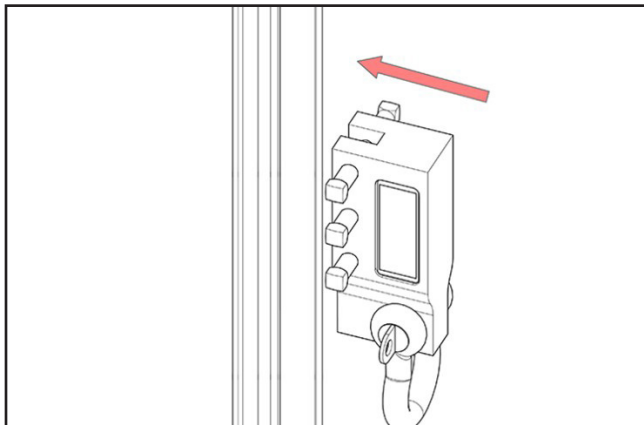
- Torque Wrench
- Square Sockets for 5/8" or 1" bolts.
- Marking Crayon (or similar marking pen)
- Impact Driver or Wrench

PERSONAL PROTECTION EQUIPMENT (PPE) REQUIRED

The following PPE is recommended for installation:

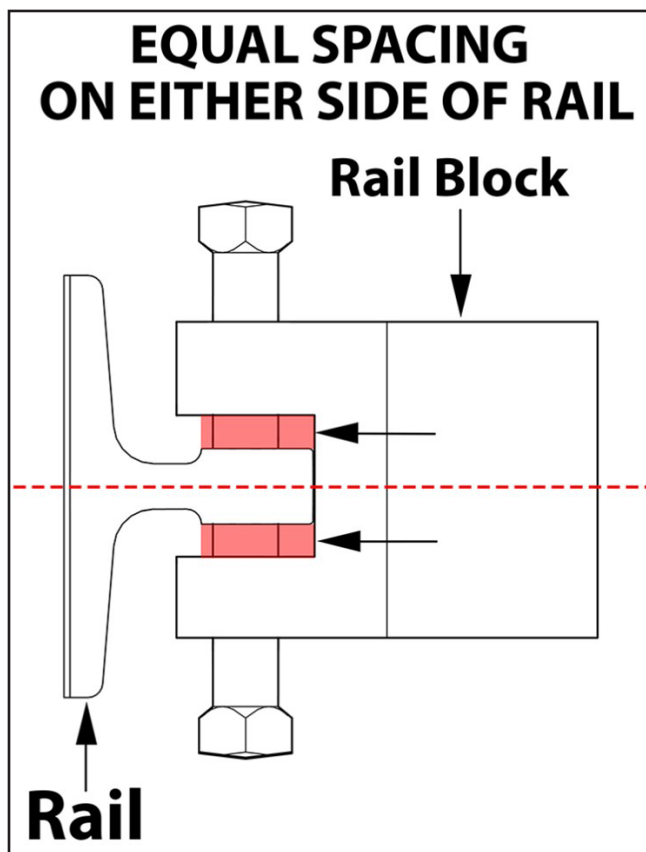
- Safety glasses
- Hard hat
- Abrasion-resistant gloves
- Steel toed boots
- Safety Vest
- Harness and attached lifeline

INSTALLATION STEPS



Step 1: Mounting the Rail Block

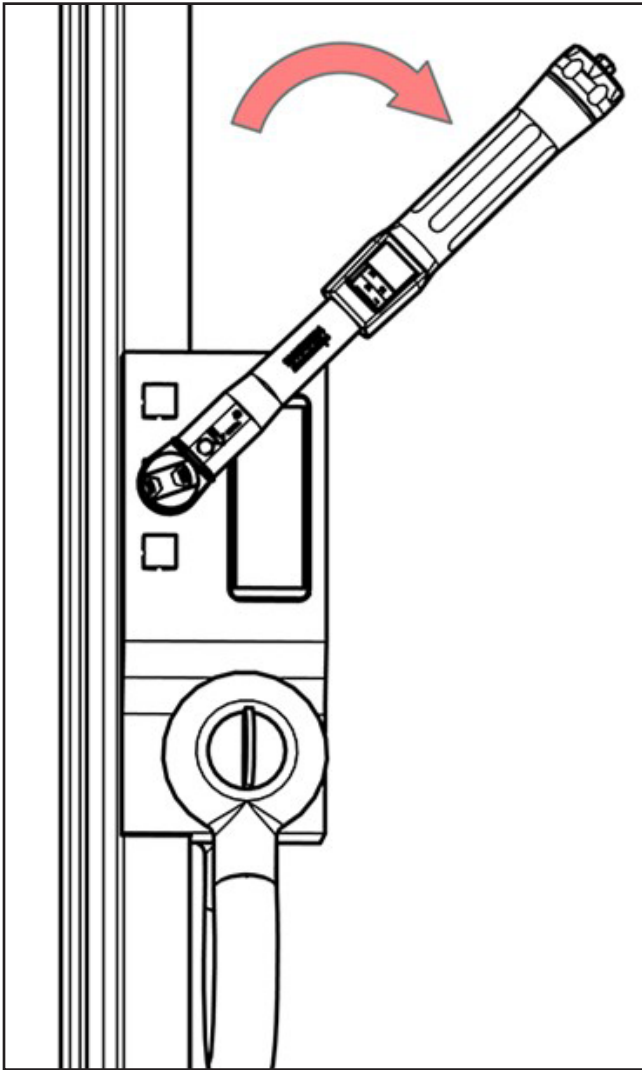
- All rail blocks weigh less than 55 lbs. They can be positioned by one person but may require another person to hold them in place while the set screws are tightened.
- Loosen all of the set screws until the ends are clear of the channel.
- Check the directional tag on the rail block, then push the rail block, clevis side down, onto the rail. Ensure the rail block is flush with the nose of the rail.



Step 2: Centering the Rail Block

- Center the rail block on the rail, then hand-tighten the set screws until they meet the centered rail.

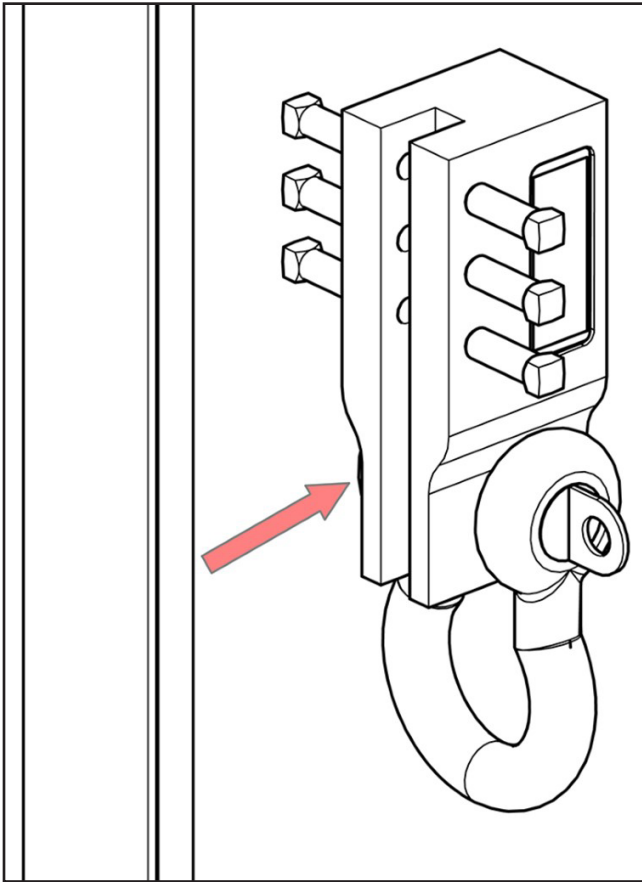
INSTALLATION STEPS



Step 3: Securing the Rail Block

- Use a torque wrench to tighten all six set screws to the prescribed torque:
- 70 ft-lbs (94 nm) for 5/8" bolts
- 250 ft-lbs (340 nm) for 1" bolts
- *NOTE: Torque wrench MUST be used to ensure proper function of rail block.
- After initial torquing of all six set screws, re-torque each set screw to the required value listed above.

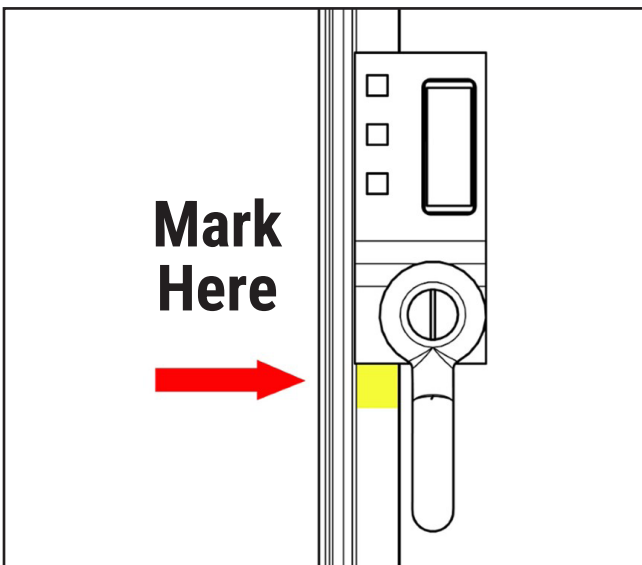
REMOVAL & STORAGE



Removal & Storage

- Use an impact driver or wrench to loosen the set screws.
- Once the set screws are free of the channel, the rail block can be pulled off of the rail.
- Wurtec recommends discarding set screws after use. To order additional set screws, please call Wurtec Sales - 1-800-837-1066.
- Check the rail block and shackle for damage or wear.
- Store in a safe, dry location.

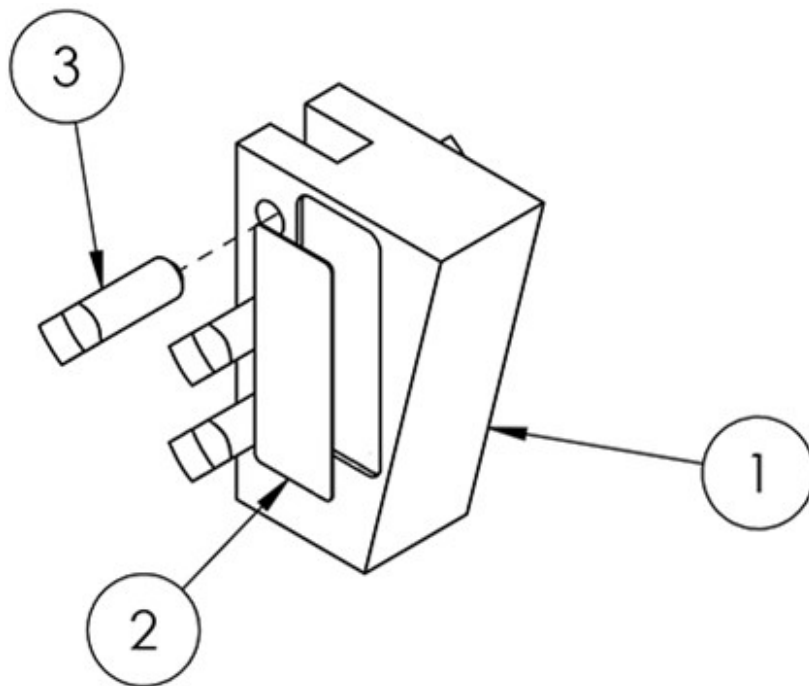
DAILY CHECKS & MAINTENANCE



Daily Checks and Maintenance

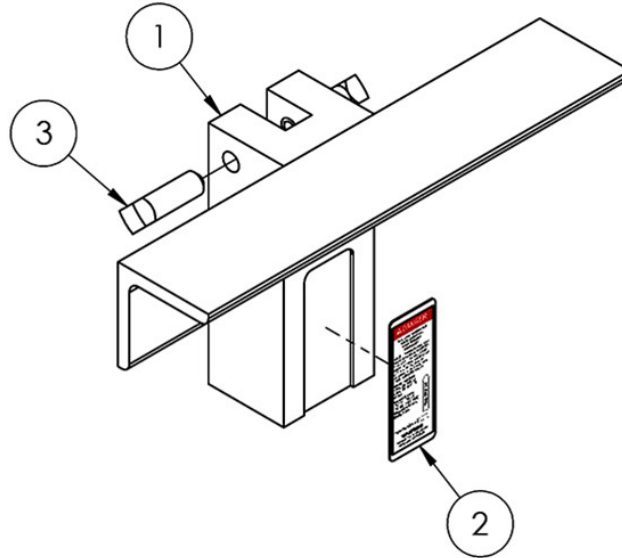
- After installing the rail block, use a marking crayon (or similar) to mark the rail where the bottom of the rail block sits.
- After daily use, check the marking to see if the rail block has slipped down the rail. The block should be flush with the rail, and the set screws should be tight.
- Check all hardware before use.
- Ensure that the set screws are sharp and intact before use. Discard and replace screws regularly.

BILL OF MATERIALS — 11-180 — STANDARD RAIL BLOCKS



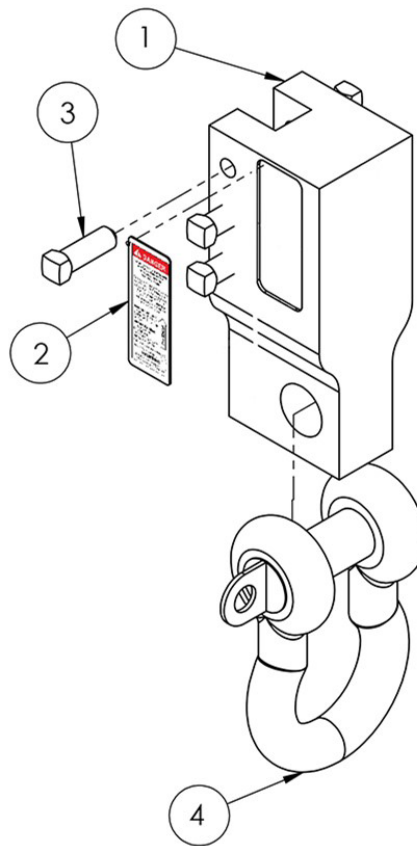
Item	Qty	Part No.	Description	Size	Length	Spare/Wear
11-180						
1	1	11-180-00	RAIL BLOCK, 5/8" RAIL	-	-	-
2	1	15-10047349	DANGER STICKER (127-2)	-	-	-
3	6	26160	SQUARE HEAD SET SCREW	5/8-11	1 3/4"	SPARE
11-181						
1	1	11-181-00	RAIL BLOCK, 3/4" RAIL	-	-	-
2	1	15-10047350	DANGER STICKER (T140-1)	-	-	-
3	6	26160	SQUARE HEAD SET SCREW	5/8-11	1 3/4"	SPARE
11-183						
1	1	11-183-00	RAIL BLOCK, 1 1/8" & 1 1/4" RAIL	-	-	-
2	1	15-10047351	DANGER STICKER (T140-2 & T140-3)	-	-	-
3	6	26160	SQUARE HEAD SET SCREW	5/8-11	1 3/4"	SPARE

BILL OF MATERIALS — 11-185 — CAR BUILDING BLOCKS



Item	Qty	Part No.	Description	Size	Length	Spare/Wear
11-185						
1	1	11-185-01	5/8" & 3/4" RAIL BLOCK WELDMENT	-	-	-
2	1	15-10054604	DANGER STICKER (T127-2 & T140-1)	-	-	-
3	6	26160	SQUARE HEAD SET SCREW	5/8-11	1 3/4"	SPARE
11-185-04						
1	1	11-185-04-02	5/8" & 3/4" RAIL BLOCK WELDMENT	-	-	-
2	1	15-10047353	DANGER STICKER (T127-2 & T140-1)	-	-	-
3	6	26160	SQUARE HEAD SET SCREW	5/8-11	1 3/4"	SPARE
11-186						
1	1	11-186-01	1 1/8" & 1 1/4" RAIL BLOCK WELDMENT	-	-	-
2	1	15-10047351	DANGER STICKER (T140-2 & T140-3)	-	-	-
3	6	26160	SQUARE HEAD SET SCREW	5/8-11	1 3/4"	SPARE
1						
1	1	10065523	5/8" & 3/4" RAIL BLOCK WELDMENT	-	-	-
2	1	15-10054604	DANGER STICKER (T127-2 & T140-1)	-	-	-
3	6	26160	SQUARE HEAD SET SCREW	5/8-11	1 3/4"	SPARE

BILL OF MATERIALS — 11-193 — RAIL BLOCKS WITH CLEVIS

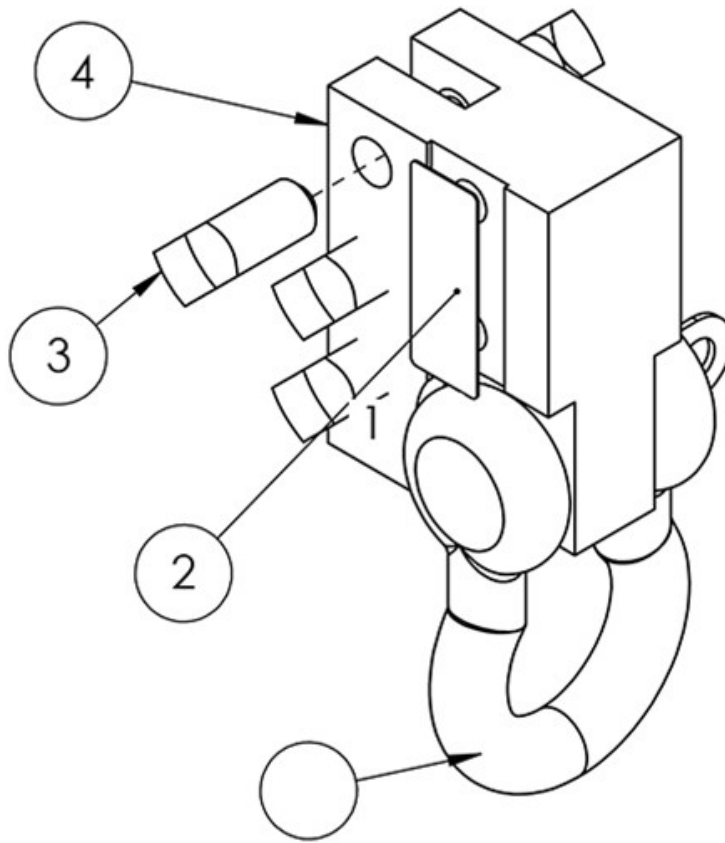


Item	Qty	Part No.	Description	Size	Length	Spare/Wear
11-190-M						
1	1	11-190-M-00	RAIL BLOCK W/ CLEVIS, 5/8" RAIL	-	-	-
2	1	15-10047346	DANGER STICKER (T127-2 CE MARKED)	-	-	-
3	6	26160	SQUARE HEAD SET SCREW	5/8-11	1 3/4"	SPARE
4	1	16-034	ANCHOR SHACKLE	8.5 TON	-	-

BILL OF MATERIALS — 11-193 — RAIL BLOCKS WITH CLEVIS

Item	Qty	Part No.	Description	Size	Length	Spare/Wear
11-191						
1	1	11-191-00	RAIL BLOCK W/ CLEVIS, 3/4" RAIL	-	-	-
2	1	15-10047348	DANGER STICKER (T140-1 CE MARKED)	-	-	-
3	6	26160	SQUARE HEAD SET SCREW	5/8-11	1 3/4"	SPARE
4	1	16-037	ANCHOR SHACKLE	14 TON	-	-
11-191-M						
1	1	11-191-M-00	3/4" MACHINED RAIL BLOCK	-	-	-
2	1	15-10047348	DANGER STICKER (T140-1 CE MARKED)	-	-	-
3	6	26160	SQUARE HEAD SET SCREW	5/8-11	1 3/4"	SPARE
4	1	16-037	ANCHOR SHACKLE	14 TON	-	-
11-193						
1	1	11-193-00	RAIL BLOCK W/ CLEVIS, 1 1/8" & 1 1/4" RAIL	-	-	-
2	1	15-10047347	DANGER STICKER (T140-2 & T140-3 CE MARKED)	-	-	-
3	6	26160	SQUARE HEAD SET SCREW	5/8-11	1 3/4"	SPARE
4	1	16-037	ANCHOR SHACKLE	14 TON	-	-
11-193-M						
1	1	11-193-M-00	1 1/8" AND 1 1/4" MACHINED RAIL BLOCK	-	-	-
2	1	15-10047347	DANGER STICKER (T140-2 & T140-3 CE MARKED)	-	-	-
3	6	26160	SQUARE HEAD SET SCREW	5/8-11	1 3/4"	SPARE
4	1	16-037	ANCHOR SHACKLE	14 TON	-	-
70-10002008						
1	1	70-10002009	RAIL BLOCK WITH CLEVIS, 8-10 MM RAIL	-	-	-
2	1	15-10047352	DANGER STICKER (T70-2 & T75-3)	-	-	-
3	6	26160	SQUARE HEAD SET SCREW	5/8-11	1 3/4"	SPARE
4	1	16-033	ANCHOR SHACKLE	6.5 TON	-	-

BILL OF MATERIALS — 70-10008459 — HEAVY DUTY RAIL BLOCK WITH CLEVIS



Item	Qty	Part No.	Description	Size	Length	Spare/Wear
70-10008459						
1	1	70-10008460	RAIL BLOCK BODY, HD	-	-	-
2	1	15-10063897	DANGER STICKER FOR 70-10008459	-	-	-
3	6	26256	SQUARE HEAD SET SCREW	1-8	2"	SPARE
4	1	16-037	ANCHOR SHACKLE	14 TON	-	-
70-10001612						
1	1	70-10001613	RAIL BLOCK BODY, JUMBO HD	-	-	-
2	1	15-10063896	DANGER STICKER FOR 70-10001612	-	-	-
3	6	26256	SQUARE HEAD SET SCREW	1-8	2"	SPARE
4	1	16-037	ANCHOR SHACKLE	14 TON	-	-

