

THE FIRST NAME IN QUALITY COUPLINGS

Installation, Inspection, Operation & Maintenance Guide



MODEL 9 SAFETY CHAIN HANGER PART #10000182 MODEL 10 SAFETY CHAIN HANGER PART #10000044

IMPORTANT

Read these instructions completely before installing, using or attempting to repair this product. If you have any questions, call Premier at (800) 255-5387 or (503) 234-9202

SELECTING THE RIGHT EQUIPMENT

Whatever your application, selecting the proper equipment for the job is very important. Proper selection along with regular inspection and maintenance will help keep operating costs minimal while providing long life to each component. Below are general guidelines for selecting Premier Coupling and Drawbar Eyes. If you feel that your application is unique, please give Premier a call so that we may help you through the selection process.

Follow these four steps to ensure proper selection of Premier Couplings and Drawbar Eyes.



STEP 1: Determine "Gross Trailer(s) Weight"

"Gross Trailer(s) Weight" is usually determined by the Gross Vehicle Weight Rating (GVWR). This information is attached to the trailer by the trailer manufacturer.

For "Double Trailer" configurations, only the rear trailer is considered when selecting your Premier Coupling or Drawbar Eye. In this example, a Coupling and Drawbar Eye with a "Gross Trailer Weight" rating of 40,000 lbs. (18,143 kg) would be the minimum rating acceptable for normal, over-the-road applications (see Tongue Weight section below).

For "Triple Trailers", only the two most rearward trailers are considered in selecting your Premier Coupling or Drawbar Eye. In this example, a Coupling and Drawbar Eye with a "Gross Trailer Weight" rating of 80,000 lbs (36,287 kg) would be the minimum acceptable for normal, over-the-road applications. (See Tongue Weight section below).

STEP 2: Determine "Tongue Weight Capacity"

"Tongue Weight Capacity" is the maximum expected weight at the drawbar eye. If a hinged drawbar is used, the maximum weight will be approximately 1/2 the overall drawbar weight. If a non-hinged drawbar is used and the actual tongue weight is not known, you can approximate the weight by multiplying the GVWR of the towed trailer by 15%. However, each application is unique and the best practice is to weigh the tongue when the trailer is loaded to GVWR.

STEP 3: Consider Operating Conditions and Environments

Environments such as rough uneven roads or off-road use can dramatically increase shock loads to both drawbar eyes and couplings. In general, increasing the "Gross Trailer Weight" (Step 1:) and "Tongue Weight Capacity" (Step 2:) by a minimum of 25% will be sufficient for many applications. Even if an application is used off-road occasionally, the minimum increase necessary for Gross Trailer and Tongue Weight is 25%. Certain types of equipment and/or operating practices can also dramatically increase loads through equipment binding and/or improper loading practices. Of special concern is high tongue weight. However, each application is unique and every environment different, therefore your application may require more than 25%.

Once both "Gross Trailers(s) Weight" (Step 1:) and "Tongue Weight Capacity" (Step 2:) have been determined, evaluate your operating conditions and apply an appropriate margin of safety.

STEP 4: Browse Premier Product Catalog

Browse the Premier Product Catalog and refer to the "Specifications" section of each product. Be sure to review the "Understanding Premier Load Specifications" sections and "Coupling to Drawbar Eye Cross-Reference" sheet on the next couple of pages.

Double Trailer Configuration



Example only, each application may vary and should be considered unique.

Triple Trailer Configuration



Example only, each application may vary and should be considered unique.





SELECTING THE RIGHT EQUIPMENT

Understanding Premier Load Specifications

Each Premier product undergoes extensive design and testing prior to being introduced. We use the latest in Computer Aided Design and Analysis Software as well as physical destructive tests. Premier's published load specifications are the maximum load a given product or part will withstand without failure. Premier's testing procedures closely follow the Society of Automotive Engineers (SAE) guidelines of Recommended Practice for testing Couplings and Drawbar Eyes (SAE J847 & J849).



Importance of Inspection and Maintenance

Whether you use Premier Jacks, Couplings, Drawbar Eyes, Hinge Assemblies or any other Premier product, regular inspection and maintenance are essential for proper function, keeping repair costs to a minimum and above all, safe and efficient operation.

To determine wear limits, Premier created Wear Gages that help judge the useful life of couplings and drawbar eyes (details in catalog). In accordance with Premier and the Federal Motor Carrier Safety Regulations, these were designed to identify wear at the critical percentages of 18% and 20%, by measuring the cross-section of coupling hooks (horn) and drawbar eye loops. 18% wear indicates that the product should be replaced as soon as possible. At 20% wear, the product is no longer in usable condition and must be taken out of service immediately and replaced. The latch gage bar measures the gap space between the top of the coupling hook and the closed latch. If the 3/8" latch gage bar can



pass between this region, then the latch components should be considered worn past safe limits and replaced. Please note that these wear gage specifications are in accordance with Premier Mfg. and the Federal Motor Carrier Safety Regulations (refer to other manufacturer's specifications for wear limits on their products).

Premier also provides Installation Guides for each of our major products. These help guide you through installation, inspection, routine maintenance and part replacement. Another resource is our website at **www.premier-mfg.com**. Here you will find Installation Guides, Service Guides, distributor locations, online catalogs, product information, trade show schedules and links to trucking resources.

Additional Product Resources at Your Fingertips

Customer Service: We are always here to support you. Do you need additional information or assistance? Your phone calls are greeted by our courteous receptionist, during business hours. We have exceptional, personable Customer Service Reps for you to rely on. If you have product questions or want to place an order, you can speak directly with one of our experienced and knowledgeable Customer Service Representatives.

Sales Representatives: Would you like on site training or assistance? Contact one of our veteran Premier Sales Reps for more information about product training for your staff. Or be sure to visit with them at a Trade Show (see website for schedule).

www.premier-mfg.com: Our website is an informative resource at your fingertips. In addition to our Installation and Service Guides, you will find Territory Manager contact information, distributor locations, product specifications, product selectors, cross-reference forms, digital product catalog, trade show schedule, and links to trucking resources.



MODEL 9 & 10 SAFETY CHAIN HANGERS

Specifications and Load Capacities

SAFETY WARNING

This product is designed as a back up safety device attachment point, to be used within the stated gross trailer weight capacities. Do not use this device as a primary towing connection. Do not overload or abuse this product. Overloading or abuse may lead to property damage, severe injury, or death.

9 Standard Installation Drawing



10 Standard Installation Drawing



Installation

Installation Procedure:

- 1. The 9 and 10 Safety Chain Hangers must be installed to comply with the Federal Motor Carrier Safety Regulations. Specifically, Section 393.70, Paragraph D: "Safety Devices in case of Tow-Bar Failure or Disconnection." Prior to install or operation, consult with local, State and Federal agencies, as there may be additional applicable laws governing installation and use of this product.
- 2. One of the three attached Welding Procedure Specifications, GMAW, SMAW or FCAW, must be followed. Welding should only be performed by a certified welder skilled in structural welding practices.
- 3. All weld locations must be clean, paint free and void of any moisture, oil, grease, oxides or loose or thick scale.
- 4. There are two critical criteria that must be met when determining where to mount the 9 or 10 Safety Chain Hangers. First, they must be mounted so the chain or cable direction of pull, during a tow-bar failure or disconnection, is perpendicular to the hanger eye opening centerline, as illustrated in Figure 1. Figure 1A shows one incorrect scenario where the direction of pull would not be perpendicular to the hanger eye opening centerline. Second, they must be attached in such a way that the hanger eye opening centerline is perpendicular to the vehicle's direction of travel (see Figure 2).
- 5. If two safety chain hangers are to be installed on the vehicle, they must be equal in height above the ground, and equidistant from the vehicle centerline. If only one hanger is being installed, it must be in alignment with the centerline of the vehicle.
- 6. Fit-up, between 9 or 10 Safety Chain Hangers and the mounting surface, must be flush, as failure to have a flush fit prior to welding will cause the capacities to be negatively affected.
- 7. Attach the 9 or 10 Safety Chain Hangers to the mounting surface with a minimum 5/16" fillet weld that encompasses the entire interface between the hanger and mounting surface (see Figure 2).
- 8. "IMPORTANT WARNINGS!" sticker was enclosed. This must be attached to the tailboard, adjacent to the safety chain hanger, visible for the end user to read.



Figure 1

FIG. 1B

MODEL 9 & 10 SAFETY CHAIN HANGERS



Inspection/Operation/Maintenance

- 1. Visually inspect the safety chain hanger for cracks, impact damage and/or deformation before each and every use. Do NOT use if any of these conditions exist.
- 2. If the original cross-section of the hanger loop has been reduced by 10% or greater, the safety chain hanger is not to be used and is considered out-of-service.
- 3. WARNING: Prior to towing, make certain that adequately rated safety chains have been properly connected.
- 4. Never weld on any Premier safety chain hanger in order to repair damaged or worn areas. Field and/or shop weld repairs are inadequate and may further weaken the product.

IMPORTANT GUIDELINES that apply to all Premier Safety Chain Hangers

- Hangers are to be attached by welding only
- Never attempt weld repair of damaged or worn chain hangers
- Welding should only be performed by a certified welder skilled in structural welding practices
- Clean and inspect safety chain hangers for damage or excessive wear before each and every use
- Do not bind-up (Jackknife) any application as stresses can cause damage to products or components, resulting in failure and detachment of the trailer while in use



MODEL 9 & 10 SAFETY CHAIN HANGERS

Welding Procedures

			Identification #: F	Identification #: PMEM-1						
			Revision 0	Date: 2/1/	00	By: PI				
Company Name: Premier Manufacturing Co.			Authorized By:	8	Date:					
Welding Process(es): GM	AW		Type: Manual:	Semi-Automatic: (X)						
Supporting PQR No.(s): N/A Prequalified			Machine:	Automati	Automatic:					
JOINT DESIGN USED		29.00	POSITION							
Type: All Fillets, Butts (Se	e Attaci	hed)	Position of Groov		Filet: 1F, 2F					
Single (X)	Do	uble Weld (X)	Vertical Progress		Down ()					
Backing: Yes (X)	No	(X)	LECTRICAL CH.	ARACTERISTIC						
Backing Material: M1-P1-	S1 Grou	up 1 & 2 '	Transfer Mode (GMAW) short-circuiting ()							
Root Opening:	Roc	t Face Dimension:	Globular (X) Spray (X)							
Groove Angle:	Rac	lius (J-U):	Current: AC () DCEP(X) DCEN () Pulsed ()							
Back Gouging: Yes (X) N	lo (X) N	lethod: Mech/Thermal	Other:							
BASE METALS			TECHNIQUE							
Material Spec.: M1-P1-S1	1026 C	arbon Steel	Stringer or Weave Bead: String or Weave							
Type or Grade: Group 1 8	2	A STATE OF A STATE	Multi-Pass or Single Pass (per side): Single, Multiple							
Thickness: Groove: 1/8 -	1 1/8"	Fillet: Unlimited	Number of electrodes: Single							
Diameter (Pipe): 4" minim	um		Electrode Spacin		Longitudina	l:				
FILLER METALS					Lateral:					
AWS Specification: A5.18					Angle:					
AWS Classification: E70S	-1		Contact Tube to Work Distance: 3/4" ±1/8"							
SHIELDING			Peening: Recommended							
Flux:	Ga	s: CO ²	Interpass Cleaning: Mechanical							
	Cor	nposition: 100%	POSTWELD HEAT TREATMENT							
Electrode-Flux (Class)	Flo	w Rate: 30-50 cfh	Temp.:							
	Gat	s Cup Size: 1/2" Dia.	Time:		Arta a					
PREHEAT										
Preheat Temp.: Min.: 100'	۴F									
Interpass Temp.: Min. 100	۴F	Max.: 500°F								

Pass or Weld Layer(s)	A Date for	Filler I	Aetals	Cu	rrent			Joint Details See Attached		
	Process	Class	Diam.	Type & Polarity	Amps or Wire Feed Speed	Volts	Travel Speed			
All	GMAW	E70S-X	0.035	DCEP	190-230	22-31	13 ±1 IPM			
All	GMAW	E70S-X	0.045	DCEP	260-290	27-31	13 ±1 IPM			

Manufactur																
Manufactur			Revision 0	Dat	e: 2/1/00	By: PI							vision 0 Dat			B
Company Name: Premier Manufacturing Co.				6		Date:	Comp	Company Name: Premier Manufacturing Co.			Aut	thorized By:			D	
Welding Process(es): SMAW			Type: Manual		Sem	ni-Automatic:	Weldi	elding Process(es): FCAW				pe: Manual:	(X)		mi-Automa	
V/A (Pre-Qua	lified)		Machine:		Auto	omatic:	Suppo	orting PQR No.(s): N/A (Pre-Qualified)							omatic:	
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No (X)			ELECTRICAL	CHARACTE	RISTICS											
	& 2	'	Transfer Mod	e (GMAW) shi	rt-circuiting ()										
		ion:	Globular ()	Globular () Spray ()												
Radiu	s (J+U):		Current: AC () DCEP (X)	DCEN() Pul	lsed ()										ruised ()
lo (X) Metho	d: Mech/The	rmal	Other:							to (X) Method: Mech/Thermal						
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laterial Spec.: M1-P1-S1 1026 Carbon Steel Stringer or Weave Bead: String and Weave					°C											
				Single Pass (p	er side): Multi	ple/Single										
Thickness: Groove: 1/8"-1 1/2 Fillet: Unlimited				ectrodes: Singl	9											
Diameter (Pipe): 4" Minimum			Electrode Spa									Elei	ctrode Spac	sing:		N/A
FILLER METALS																
AWS Specification. A5.1 -A5.5													•			
AWS Classification: E7018					nce: N/A											
								.DING		1						
Gas: N/	A				ning: Mechanical Only											
				HEAT TREAT	MENT											
Flow Ra	te: N/A		Temp.: N/A				Electro) XUI-I-BDC	Class)							
Gas Cup Size: N/A			Time: N/A				DOCU.		Gas cup Size. Inz Dia. Will.				10: IN/A			
									10.000		-					
Preheat Temp. Min.: 100*F																
0°F Ma	x.: 500°F						Interpa	assi emp	Will. 100 P					51.00		0.00
						loint Dataile										
				Velte	Traval	Joint Details	Pace	s or p	rocess		пт			Volts	Travel	
Class	Dlam.	Polarity	Wire Feed	Voits	Speed	See Attached And	We	ld		Oluss Dia		olarity Wi	Tire Feed		Speed	See
		-				AWS D1.1	A		CAW	E70T-1 0.0-	15 E		180-280	24-28	As	AW
E7018	3/32*	DCEP	70-110	19-22 20-24	As Required		A			E71T-1 0.0			190-300	24-29	Required	
		DCEP	90-150		required		A		CAW	0.0			210-350	24-29		
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PREMIER MANUFACTURING

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ATTENTION!

End Users must read and follow this information.

DISTRIBUTORS & OEM'S: Please ensure that your customers are made aware of the following information on this page.

- 1. VERIFY THAT BOTH COUPLING'S AND DRAWBAR EYE'S RATED CAPACITIES MEET YOUR APPLICATION(S) REQUIREMENTS.
- 2. DO NOT OVERLOAD COUPLING OR DRAWBAR EYE.
- 3. INSPECT COUPLING, LATCH AND DRAWBAR EYE FOR CRACKS, BENDING DAMAGE OR EXCESSIVE WEAR. DO NOT USE IF ANY OF THESE CONDITIONS EXIST!
- 4. CHECK FOR GAP BETWEEN CLOSED LATCH AND TOP OF HORN OR COUPLING BALL. DO NOT USE IF GAP IS 3/8 IN. OR MORE.
- 5. MAKE SURE COUPLING IS LATCHED AND THAT LATCH WILL NOT OPEN.
- 6. PRIOR TO USE, ALWAYS CONNECT SAFETY CHAINS OF ADEQUATE STRENGTH FOR LOAD(S) BEING TOWED.
- 7. DO NOT BIND-UP (JACKKNIFE) ANY APPLICATION AS STRESSES CAN CAUSE DAMAGE TO THE COUPLING, DRAWBAR EYE, OTHER COMPONENTS OR ANY COMBINATION OF THEM. JACKKNIFING MAY RESULT IN FAILURE OF PRODUCTS OR COMPONENTS, RESULTING IN DETACHMENT OF THE TRAILER WHILE IN USE.
- 8. DO NOT APPLY LUBRICANTS TO THE COUPLING HOOK OR DRAWBAR EYE LOOP, AS THEY CAN COVER UP POSSIBLE DAMAGE AND ACCELERATE WEAR.
- 9. ALWAYS ABIDE BY ALL APPLICABLE STATE AND FEDERAL REGULATIONS GOVERNING SAFE AND PROPER TRANSPORTATION.
- 10. NEVER STRIKE ANY OF THESE COMPONENTS WITH A HAMMER OR ANY OTHER DEVICE.
- 11. ALWAYS VERIFY PROPER OPERATION OF LATCHING SYSTEM AND COUPLING COMPONENTS PRIOR TO DRIVE OFF.
- 12. NEVER USE A COUPLING THAT YOU DO NOT FULLY UNDERSTAND HOW TO PROPERLY OPERATE AND VERIFY SECURE LATCHING OF.
- 13. NEVER REPLACE ANY PART IN ANY OF PREMIER'S ASSEMBLIES WITH NON-PREMIER COMPONENTS. DOING SO WILL VOID ALL WARRANTY AND POTENTIALLY COMPROMISE THE UNIT'S INTEGRITY, WHICH COULD RESULT IN PROPERTY DAMAGE, SERIOUS INJURY, OR DEATH.





WARRANTY: We warrant all Premier products to be free from defects in material or workmanship for one year. We will repair or replace, at our option, any Premier product which our examination reveals to be defective, provided that the product is returned to our factory, at Tualatin, Oregon transportation prepaid, within one year of purchase by the first retail purchaser. Our warranty does not extend to products which have been subject to misuse, neglect, improper installation, maintenance or application, nor does our warranty extend to products which have been repaired or altered outside of 3UHPLHU·V facility unless the repair or alteration has been expressly authorized in writing by Premier. This warranty is in lieu of all other warranties, express or implied, and excludes warranties of merchantability, fitness for a particular purpose and otherwise, and in no event will Premier be liable for incidental, special, contingent or consequential damages.

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