

THE FIRST NAME IN QUALITY COUPLINGS

Installation, Inspection, Operation & Maintenance Guide



MODEL 22 WELD-ON DRAWBAR EYE

PART #10000774

MODEL 23 WELD-ON DRAWBAR EYE

PART #10000777

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"

(GVWR(s) of towed trailers)

STEP 2: Determine "Tongue Weight Capacity"

(Maximum occurring tongue weight)

STEP 3: Add Margin of Safety

(Dependent upon your equipment and operating environment)

STEP 4: Browse Premier Product Catalog

(Based on Steps 1-3)

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).

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.

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.



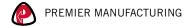
STEP 3: Consider Operating Conditions and Environments

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

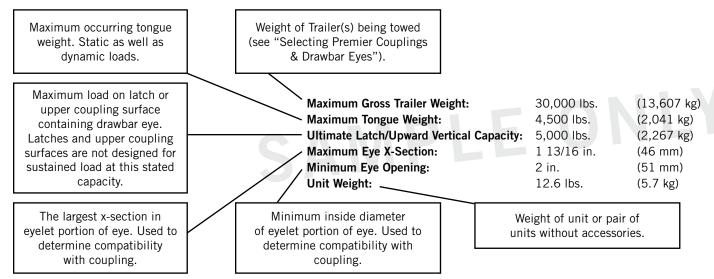
Browse the Premier Product Catalog and refer to the "Specifications" section of each product. Be sure to review the "Understanding Premier Load Specifications" sections and "Coupling to Drawbar Eye Cross-Reference" sheet on the next couple of pages.



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).

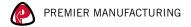
Premier also provides Installation Guides for each of our major products. These help guide you through installation, inspection, routine maintenance and part replacement. Another resource is our website at **www.premier-mfg.com**. Here you will find Installation Guides, Service Guides, distributor locations, 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.



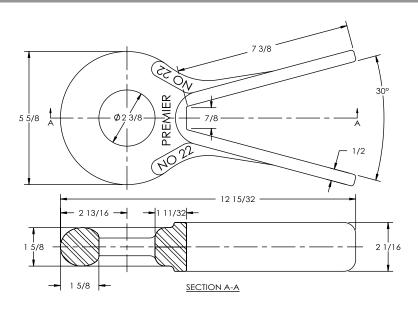
Specifications and Load Capacities

SAFETY WARNING

This product is designed for towing under normal conditions within the stated gross trailer weight. Do not overload or abuse this product. Overloading or abuse may lead to property damage, severe injury, or death. Max. Gross Trailer Weight:1Maximum Tongue Weight:1Inside Diameter:2Unit Weight:1

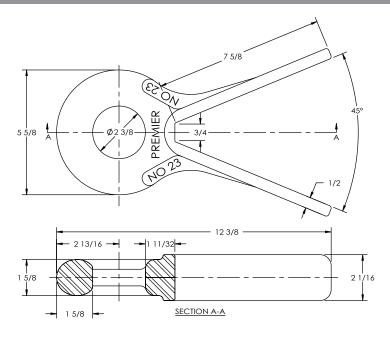
100,000 lbs. (45,359 kg) 15,000 lbs. (6,803 kg) 2 3/8 in. (60 mm) 11.5 lbs. (5.2 kg)

22 Standard Installation Drawing

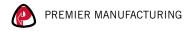


30 degree "V" angle.

23 Standard Installation Drawing



45 degree "V" angle.



Accessories

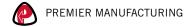
Optional Accessories:

- 14005 (#10000053) (1 5/8") Wear Gage: Used to determine if the eye has worn beyond its intended service life.

Installation

Installation Procedure:

- 1. The 22 and 23 Drawbar Eyes must be installed to comply with the Federal Motor Carrier Safety Regulations. Specifically, Section 393.70, Paragraph C: "Towing of Full Trailers." 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. Fit-up, between the front end structure and the mounting surfaces of the drawbar eye, must be flush as shown in Figure 1. The weld tabs can be heated and then spread or collapsed up to 10° to accommodate the geometry of the front end structure. Failure to have a flush fit prior to welding will cause the capacities to be negatively affected. Figure 1A shows a possible example of an improper fit-up that must be avoided.
- 5. Attach the drawbar eye to the front end structure with a minimum 3/8" fillet weld that encompasses the entire interface between the drawbar eye and front end structure as shown in Figure 2.
- 6. "IMPORTANT WARNINGS!" sticker was enclosed. This must be attached to the front end, adjacent to the drawbar eye, visible for the end user to read.



Installation

Figure 1

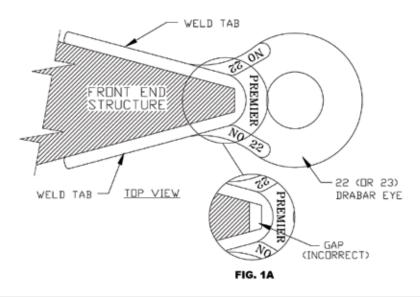
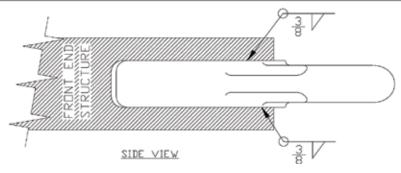


Figure 2

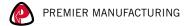


Inspection/Operation/Maintenance

- 1. Visually inspect the drawbar eye 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 eye loop has been reduced by 20% or greater, the drawbar eye is NOT to be used and is considered out-of-service.
- 3. This product is designed to be operated within its free rotation limits. It is the responsibility of the vehicle designer/end user to assure that these limits are not exceeded (not binding/jackknife).
- 4. WARNING: Prior to towing, make certain that adequately rated safety chains have been properly connected.
- 5. Never weld on any Premier drawbar eye in order to repair damaged or worn areas. Field and/or shop weld repairs are inadequate and may further weaken the drawbar eye.

IMPORTANT GUIDELINES that apply to all Premier Weld-On Drawbar Eyes

- Never attempt weld repair of damaged or worn drawbar eyes
- Air adjusted drawbar eyes must be used with an air service chamber or #500 slack adjuster
- Clean and inspect drawbar eyes and eye assemblies for damage or excessive wear before each and every use
- Structure to which eye is attached must be of sufficient strength to withstand load rating of eye
- All welds for attaching eye should be done by a certified welder skilled in structural welding
- 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
- Do not apply lubricants to the coupling hook or drawbar eye loop, as they can cover up possible damage and accelerate wear



Welding Procedures

WELDING PROCEDURE SPECIFICATION (WPS) Yes (X) PREQUALIFIED (X) QUALIFIED BY TESTING (X) or PROCEDURE QUALIFICATION RECORD (PQR) Yes (X)

GMAW			Identification #: F					
SMAIL			Revision 0	Date: 2/1/00		By: Pf		
Company Name: Premier	Manufec	turing Co.	Authorized By:	Date:				
Welding Process(es): GM	AVV		Type: Manual:	Type: Manual: Semi-Auto				
Supporting PQR No.(s): N	VA Prequ	alified	Machine:	¢				
JOINT DESIGN USED			POSITION					
Type: All Fillels, Butts (Se	e Attache	rd)	Position of Groot	re: 10, 2G		Filet: 1F, 2F		
Single (X)	Dout	olle Weld (X)	Vertical Progress	sion: Up (X)		Down ()		
Backing: Yes (X)	No (X)	LECTRICAL CH	ARACTERISTIC	\$			
Backing Material: M1-P1-5	\$1 Group	1 82	Transfer Mode (4	SMAW) short-cir	cuiting ()			
Root Opening:	Root	Face Dimension:	Globular (X) Spr	ay (X)				
Groove Angle:	Racie	s (J-U):	Current AC ()	DCEP(X) DCE	N() Puls	ed()		
Back Gouging: Yes (X) N	b (X) Me	shod: MeclyThermal	Other:					
BASE METALS			TECHNIQUE					
Meterial Spec.; M1-P1-S1	1026 Ca	rbon Steel	Stringer or Weave Bead: String or Weave					
Type or Grade: Group 1 &	2		Multi-Pass or Single Pass (per side): Single, Wultiple					
Thickness: Groove: 1/8 - 1	1/0"	Fillet Unlimited	Number of electrodes: Single					
Diameter (Pipe): 4" minimum			Electrode Spacin	ig:	Longitudinal:			
FILLER METALS					Letoral:			
AWS Specification: A5.18					Angle:			
AWS Classification: E705	-1		Contact Tube to Work Distance: 3/4" ±1/8"					
SHIELDING			Peening: Recommended					
Flux	Gas: CO ²		Interpose Cleaning: Mechanical					
Composition: 100%		POSTWELD HEAT TREATMENT						
Electrode-Flux (Class)	Flow Rate: 30-50 cth		Temp.:					
Gas Cup Size: 1/2" Dia.			Time:					
PREHEAT								
Preheat Temp.: Min.: 100	F							
Interpass Temp.: Min. 100	ME.	Max.: 500°F						

| Pass or | Process | Class | Diam. | Type & Amps or | Volts | Travel | Speed | Speed | All | GMAW | E705-X | 0.045 | DCEP | 180-230 | 22-31 | 13 ±1 IPM | All | GMAW | E705-X | 0.045 | DCEP | 280-290 | 27-31 | 13 ±1 IPM | All | GMAW | E705-X | 0.045 | DCEP | 280-290 | 27-31 | 13 ±1 IPM | All | GMAW | E705-X | 0.045 | DCEP | 280-290 | 27-31 | 13 ±1 IPM | All | GMAW | E705-X | 0.045 | DCEP | 280-290 | 27-31 | 13 ±1 IPM | E705-X | 0.045 | DCEP | 280-290 | 27-31 | 13 ±1 IPM | E705-X | 0.045 | DCEP | 280-290 | 27-31 | 13 ±1 IPM | E705-X | 0.045 | DCEP | 280-290 | 27-31 | 13 ±1 IPM | E705-X | 0.045 | DCEP | 280-290 | 27-31 | 13 ±1 IPM | E705-X | 0.045 | DCEP | 280-290 | 27-31 | 13 ±1 IPM | E705-X | 0.045 | DCEP | 280-290 | 27-31 | 13 ±1 IPM | E705-X | 0.045 | DCEP | 280-290 | 27-31 | 13 ±1 IPM | E705-X | 0.045 | DCEP | 280-290 | 27-31 | 13 ±1 IPM | E705-X | 0.045 | DCEP | 280-290 | 27-31 | 13 ±1 IPM | E705-X | 0.045 | DCEP | 280-290 | 27-31 | 13 ±1 IPM | E705-X | 0.045 | DCEP | 280-290 | 27-31 | 13 ±1 IPM | E705-X | 0.045 | DCEP | 280-290 | 27-31 | 13 ±1 IPM | E705-X | 0.045 | DCEP | 280-290 | 27-31 | 13 ±1 IPM | E705-X | 0.045 | DCEP | 280-290 | 27-31 | 13 ±1 IPM | E705-X | 0.045 | DCEP | 280-290 | 27-31 | 13 ±1 IPM | E705-X | 0.045 | DCEP | E705-X | 0.045 | DCEP

WELDING PROCEDURE SPECIFICATION (WPS) Yes (X) PREQUALIFIED (X) QUALIFIED BY TESTING () or PROCEDURE QUALIFICATION RECORD (PQR) Yes ()

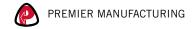
S	MAW	Identification #: PMSMA-1				
. <u>.</u>	mean.	Revision 0	Date: 2/1/00		By: P1	
Company Name: Premier	Manufacturing Co.	Authorized By: Date				
Weiding Process(es): SM	AW	Type: Manual: (X)	e: Manua? (X) Sent			
Supporting PQR No.(s): N	IA (Pre-Qualified)	Machine:	chine: 1, Auto			
JOINT DESIGN USED		POSITION				
Type: All Fillets-Butts (See	e Attached)	Position of Groove: All			et All	
Single (N)	Double Weld (X)	Vertical Progressi	on: Up (X)	Do	en()	
Backing: Yes (X)	No (X)	ELECTRICAL CH	ARACTERISTIC	78		
Backing Material: M1-P1-		Transfer Mode (C	MANN) short-olio	uiting ()		
Root Opening:	Root Face Dimension:	Globular () Spra				
Groove Angle:	Radius (J-U):	Current AC () 0	CEP (X) DOEN	() Pulsed	()	
Buck Couging: Yes (X) N	o (IC) Method: Moch/Thormal	Other				
BASE METALS		TECHNIQUE				
Material Spec.: M1-P1-S1	1025 Carbon Steel	Stringer or Weave Bead: String and Weave				
Type or Grade: Group 1 a	nd 2	Multi-Pless or Single Pass (per side); Multiplo/Single				
Thickness: Greave: 1/8"-1	1/2 Fillet Unlimited	Number of electro	des: Single			
Diameter (Pipe): 4" Minim	UM .	Clectrade Specing	: Longitus	Longitudinal NIA		
FILLER METALS	-		Lateral:	NOA.		
AWS Specification, A5.1 -	A5.5		Angle: h	Angle: N/A.		
AWS Classification: E701	8	Contact Tube to Work Distance: N/A				
SHELDING		Peening: Recommended				
Flox	Claric NBA	Inferpass Cleaning: Mechanical Only				
	Composition: N/A	POSTWELD HEA	T TREATMENT			
Electrode-Flux (Class)	Flow Rate: NIA	Temp: NA				
	Gas Cup Size: N/A	Time: N/A				
PREHEAT						
Preheat Temp. Min.: 1001						
Inlarpass Temp., Min.: 10	0°F Max : 500°F					

				WELDING P	ROCEDURE			
	Filler Metals		Current				Joint Details -	
Pass or Weld Layer(s)	Weld	Class	Diam.	Type & Polarity	(Amps) or Wire Feed Speed	Volts	Travel Speed	See Attached And AWS D1.1
Al	SMAW	E7918	3/32"	DOEP	70-110	19-22	As '	1
Al	SMAW	E7018	16"	DOEP	90-150	20-24	Required	
Al	SMAW	67218	502"	DOEP	120-190	20-24		

WELDING PROCEDURE SPECIFICATION (WPS) Yes (X) PREQUALIFIED (X) QUALIFIED BY TESTING () or PROCEDURE QUALIFICATION RECORD (PQR) Yes ()

	FCAW	Identification #: PMFC-1				
	1 27.11.	Revision 0 Date: 271/00	By: Pi			
Company Name: Premier	Manufacturing Co.	Authorized By:	Date:			
Welding Process(es): PC/	w	Type: Manual: (X)	-Automatic:			
Supporting POR No.(s): N	IA (Pre-Qualified)	Machine	Autor	matic:		
JOINT DESIGN USED		POSITION				
Type: All Fillets-Butts (See	Attached)	Position of Groove: All	Filipt: All			
Single (X)	Couble Weld (R)	Vertical Progression: U	p (PI)	Down ()		
Bucking: Yes (X)	NeOQ	ELECTRICAL CHARA	CTERISTICS			
Backing Material: M1-P1-5		Transfer Mode (GMAW)	short-circuiting ())		
Root Opening:	Rost Face Dimension:	Globular (X) Spray (X)				
Groove Angle:	Radius (J-U):	Current AC() DCEP	(X) DOEN() Po	dued ()		
Back Gouging: Yes (X) N	o (X) Method: Medh/Thermal	Other:				
BASE METALS		TECHNIQUE				
Material Spec : M1-P1-S1	1026 Carbon Steel	Stringer or Weave Bead: String and Weave				
Type or Grede: Group 1 a	nd 2	Multi-Pass or Single Pass (per size): MultiplorSingle				
Thickness: Groove: 1/8'-1	72" Fillet: Unlimited	Number of electrodes: Single				
Diameter (Pipe): 4" Minim	um	Electrode Spacing:	Longitudinel: N	MA.		
FILLER METALS			Loteral: N/A			
AWS Specification: A5.20			Angle: N/A			
AWS Classification: E70T	MEPIT-1	Contact Tube to Work Distance: 3/4" ±1/4"				
SHIELDING		Peening: Recommended				
Flor:	Gas: CO ²	Interpess Cleaning: Mechanical Only				
	Composition: 100%	POSTWELD HEAT TREATMENT				
Electrode-Flux (Class)	Flow Rate: 30-50 ofh	Temp.: NA				
	Gas Cup Size: 1/2" Die. Min.	Time: NIA				
PREHEAT						
Preheat Temp.: Min.: 100						
interpassTemp: Min. 100	°F [Max.: 560°F	_				

Pass or Weld Layer(x)		Filler Metals		Current				Joint Detells	
	Process	Cinss	Diam.	Type& Polarity	(Amps) or Wire Feed Speed	Volts	Travel Speed	See Attached And	
All	FCAW	E70T-1	0.045	DCEP	180-290	24-26	As	AWS 01.1	
All	FCAW	E71T-1	0.052	DCEP	190-300	24-29	Required		
All	FCAW		0.068	DOEP	210-350	24-29	1		
All	FCAW		564*	DOEP	250-409	26-30	1		



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.

his envelope contains important instructions

AND MUST REMAIN ATTACHED TO THIS

DRAWBAR EYE. It may be removed only by the

Manufacturer who preserves this envelope and instructions and provides it to the end user End User or by an Original Equipment

THE FIRST NAME IN QUALITY COUPLINGS PREMIER MANUFACTURING (503)234-9202www.premier-mfg.com



Model 22 & 23 Weld-On Drawbar Eyes

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.

DISCLAIMER: Although great care has been taken to ensure accurate information throughout this document, Premier Manufacturing must reserve the right to alter any information contained within. These changes include but are not limited to: Dimensional changes, load capacity and availability of any part or assembly.

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