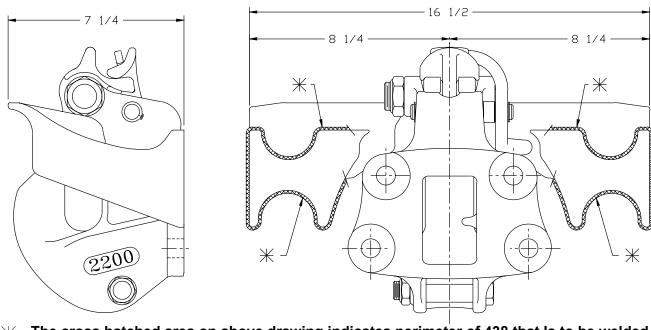


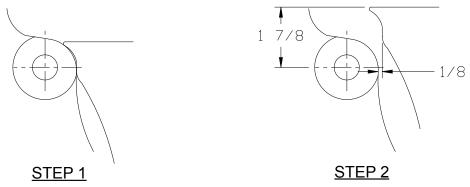
THE FIRST NAME IN QUALITY COUPLINGS

### 438 DRAWBAR GUIDE TO 2200L INSTALLATION GUIDE



\*\* - The cross hatched area on above drawing indicates perimeter of 438 that Is to be welded.

To install 438 drawbar guides, follow steps 1 through 3 (see illustration below).



STEP 1: Match contours on coupling and top of guide's mounting base.

STEP 2: Once positioned, move 438 guide vertically (straight up), until top of guide's mounting surface is 1 7/8" from coupling's top hole center, and horizontally 1/8" away from 2200L body. The distance between the outer edges of the two guides should be 16 1/2".

<u>STEP 3</u>: Weld each drawbar guide to the trailer cross member/frame with a minimum 1/4" fillet weld around the indicated perimeter.

NOTE: DO NOT WELD THE DRAWBAR GUIDES TO THE 2200L COUPLING.

MLK 08/02/12

### 438 Drawbar Guides

#### WEI DING PROCEDURES

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

G	MAW		Identification #: F				
_		•	Revision 0	Date: 2/	Date: 2/1/00		
Company Name: Premier	Manufact	turing Co.	Authorized By:	Date:			
Welding Process(es): GM	AW		Type: Manual:		Semi-A	utomatic: (X)	
Supporting PQR No.(s): N	/A Prequ	alified	Machine:		Automa	itic:	
JOINT DESIGN USED			POSITION				
Type: All Fillets, Butts (Se	ed)	Position of Groot	ve: 1G, 2G		Filet: 1F, 2F		
Single (X) Double Weld (X)			Vertical Progress	sion: Up (X)		Down ( )	
Backing: Yes (X)	cking: Yes (X) No (X)			ARACTERIST	cs		
Backing Material: M1-P1-9	S1 Group	1 &2	Transfer Mode (	GMAW) short-o	ircuiting ( )	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Root Opening:	Root	Face Dimension:	Globular (X) Spr.	ay (X)			
Groove Angle:	Groove Angle: Radius (J-U):			DCEP(X) DC	EN() Pu	lsed ( )	
Back Gouging: Yes (X) N	o(X) Me	thod: Mech/Thermal	Other:				
BASE METALS			TECHNIQUE				
Material Spec.; M1-P1-S1 1026 Carbon Steel			Stringer or Weave Bead: String or Weave				
Type or Grade: Group 1 &	2		Multi-Pass or Single Pass (per side): Single, Multiple				
Thickness: Groove: 1/8 - 1	1 1/8"	Fillet: Unlimited	Number of electrodes: Single				
Diameter (Pipe): 4" minim	um		Electrode Spacin	ng:	Longitudinal:		
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:	Gas:	CO <sup>2</sup>	Interpass Cleaning: Mechanical				
	Com	position: 100%	POSTWELD HEAT TREATMENT				
Electrode-Flux (Class) Flow Rate: 30-50 cfh		Temp.:					
Gas Cup Size: 1/2" Dia.			Time:				
PREHEAT							
Preheat Temp.: Min.: 100	°F						
Interpass Temp.: Min. 100	)°F	Max.: 500°F					

#### WELDING PROCEDURE

		Filler Metals		Current				Joint Details	
Pass or Weld Layer(s)	Process	Class	Diam.	Type & Polarity	Amps or Wire Feed Speed	Volts	Travel Speed	See Attached	
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		

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

SI	MAW	Identification #: PMSMA-1				
<u>U</u>	WAVV	Revision 0	Date: 2/1/00		By: PI	
Company Name: Premier	Manufacturing Co.	Authorized By: Date:				
Welding Process(es): SM	AW .	Type: Manual: (X) Semi-Automatic			utomatic:	
Supporting PQR No.(s): N	/A (Pre-Qualified)	Machine:	Machine: 1 Automatic:			
JOINT DESIGN USED		POSITION	1			
Type: All Fillets-Butts (See	Attached)	Position of Groove:	All	Fill	et: All	
Single (X)	Vertical Progression	n: Up (X)	Do	vn ( )		
Backing: Yes (X)	No (X)	ELECTRICAL CHA	RACTERISTICS	5		
Backing Material: M1-P1-9	61, Group 1 & 2	Transfer Mode (GM	AW) short-circu	iting ( )		
Root Opening:	Root Face Dimension:	Globular ( ) Spray	() ,			
Groove Angle:	Radius (J-U):	Current: AC ( ) DCEP (X) DCEN ( ) Pulsed ( )				
Back Gouging: Yes (X) N	o (X) Method: Mech/Thermal	Other:				
BASE METALS		TECHNIQUE				
Material Spec.: M1-P1-S1	1026 Carbon Steel	Stringer or Weave Bead: String and Weave				
Type or Grade: Group 1 a	nd 2	Multi-Pass or Single Pass (per side): Multiple/Single				
Thickness: Groove: 1/8"-1	1/2 Fillet: Unlimited	Number of electrodes: Single				
Diameter (Pipe): 4" Minim	um	Electrode Spacing:	Longitudi	Longitudinal: N/A		
FILLER METALS			Lateral: N	Lateral: N/A		
AWS Specification, A5.1 -	A5.5		Angle: N	Angle: N/A		
AWS Classification: E7018	3	Contact Tube to Work Distance: N/A				
SHIELDING		Peening: Recommended				
Flux:	Gas: N/A	Interpass Cleaning: Mechanical Only				
	Composition: N/A	POSTWELD HEAT TREATMENT				
Electrode-Flux (Class)	Flow Rate: N/A	Temp.: N/A				
***	Gas Cup Size: N/A	Time: N/A				
PREHEAT						
Preheat Temp. Min.: 100°I	=					
Interpass Temp., Min.: 100	)°F Max.: 500°F					

WELDING	G PROCEDU	RE

Pass or Process Weld Layer(s)	Filler Metals		Current				Joint Details	
	Class	Diam.	Type & Polarity	(Amps) or Wire Feed Speed	Volts	Travel Speed	See Attached And AWS D1.1	
ΑII	SMAW	E7018	3/32"	DCEP	70-110	19-22	As	1
ΑII	SMAW	E7018	1/8"	DCEP	90-150	20-24	Required	
Ali	SMAW	E7018	5/32"	DCEP	120-190	20-24	1	

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

	FCAW	Identification #: PMFC-1				
	IGAII	Revision 0 Date: 2/1/00			By: PI	
Company Name: Premier	Manufacturing Co.	Authorized By:				
Welding Process(es): FCA	w	Type: Manual: (X)		Semi-Auto	matic:	
Supporting PQR No.(s): N	/A (Pre-Qualified)	Machine:		Automatic:		
JOINT DESIGN USED		POSITION				
Type: All Fillets-Butts (See	Attached)	Position of Groove: All		Fill	et: All	
Single (X)	Double Weld (X)	Vertical Progression: U	p (X)	Do	wn ( )	
Backing: Yes (X)	No(X)	ELECTRICAL CHARA	CTERISTICS	•		
Backing Material: M1-P1-8	\$1, Group 1 &2	Transfer Mode (GMAW	/) short-circuiti	ng ( )		
Root Opening:	Root Face Dimension:	Globular (X) Spray (X)				
Groove Angle:	Radius (J-U):	Current: AC ( ) DCEP(X) DCEN ( ) Pulsed ( )				
Back Gouging: Yes (X) N	o (X) Method: Mech/Thermal	Other:				
BASE METALS		TECHNIQUE				
Material Spec.: M1-P1-S1	1026 Carbon Steel	Stringer or Weave Bead: String and Weave				
Type or Grade: Group 1 a	nd 2	Multi-Pass or Single Pass (per side): Multiple/Single				
Thickness: Groove: 1/8"-1	1/2" Fillet: Unlimited	Number of electrodes: Single				
Diameter (Pipe): 4" Minim	um	Electrode Spacing:	Longitudinal: N/A			
FILLER METALS			Lateral: N/A			
AWS Specification: A5.20			Angle: N/	Á.		
AWS Classification: E70T	-1/E71T-1	Contact Tube to Work Distance: 3/4" ±1/4"				
SHIELDING		Peening: Recommended				
Flux:	Gas: CO <sup>2</sup>	Interpass Cleaning: Mechanical Only				
	Composition: 100%	POSTWELD HEAT TREATMENT				
Electrode-Flux (Class)	Flow Rate: 30-50 cfh	Temp.: N/A				
	Gas Cup Size: 1/2" Dia. Min.	Time: N/A				
PREHEAT						
Preheat Temp.: Min.: 100	°F					
InterpassTemp.: Min. 100	°F Max.: 500°F					

WELDING	PROCEDURE

Pass or Weld Layer(s)	Process	Filler Met		Current				Joint Details
		Class	Diam.	Type& Polarity	(Amps) or Wire Feed Speed	Volts	Travel Speed	See Attached And
All	FCAW	E70T-1	0.045	DCEP	180-280	24-28	As	AWS D1.1
All	FCAW	E71T-1	0.052	DCEP	190-300	24-29	Required	
All	FCAW		0.068	DCEP	210-350	24-29		
All	FCAW		5/64"	DCEP	250-400	26-30	]	

