CRJ-100/200 TOWBAR

Towbar Specifications, Usage, Preventive Maintenance, and Parts

MANUAL

(Includes Optional Hydraulic Lift and Soft Start)



For ordering New Towbars or Replacement Parts Please Contact:

Towbar Parts @ 724-752-2000 Or Fax @ 724-758-1558

Or Email @ service@hallindustries.com

Hall Industries, Inc. 514 Mecklem Lane Ellwood City, PA 16117 724-752-2000

August 5, 2013 Revision 01 08-05-13 REV01 Update Manual

0. Index

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1. Specifications

1.1. Physical Specifications

Part Number	Description	Weight	Length
CRJ-100	Full Assembly (25" Height x 35" Wide) With Fixed Wheel Carriage & Standard Eye	210 lb	12′ 10″
CRJ-100-HL-SS	Full Assembly (30" Height x 20" Wide) With Hydraulic Lift Wheel Carriage & Soft Start	235lb	12′ 10″
CRJ-100-SS	Full Assembly (30" Height x 20" Wide) With Fixed Wheel Carriage & Soft Start	225 lb	12′ 10″
CRJ-100-HL	Full Assembly (30" Height x 20" Wide) With Hydraulic Lift Wheel Carriage	225 lb	12′ 10″
CRJ-100-5	Towbar Head	78 lb	35"

1.2. Warranty:

All parts are guaranteed against defects for one year. If at any time this manual is not followed it will void the warranty (preventive maintenance logs are required for all warranty replacement parts). All replacement parts must be genuine Hall Industries parts.

1.3. Updates:

Our manuals are updated periodically please check for updates on our website prior to ordering.

2. Operating Procedures

NOTE: This must be done in accordance with the aircraft manual.

- **2.1.** Inspect the Towbar (Prior to hooking up the towbar to the tug visually inspect):
 - 2.1.1. Check for a bent or damaged frame and for worn or missing parts.
 - 2.1.2. Check tires for damage.
 - 2.1.3. Check that you have the proper towbar.

NOTE: DO NOT attempt to tow any aircraft with a damaged or improper towbar.

2.2. Responsibility

Operator of the tug must understand that it is his/her responsibility to move the aircraft safely the entire time that they are connected to the plane.

NOTE: No speeding during push and pull.

2.3. Hooking Up to the Plane ~ Checks:

- 2.3.1. You are using the proper tug and towbar for the size aircraft being moved.
- 2.3.2. The towbar you are using is approximately level between the aircraft and the tug.
- 2.3.3. The eye end of the towbar must moves freely on the hitch mounted on the tug.

2.4. Attach the Towbar to the Aircraft

- 2.4.1. First check that the towbar head pins are in the open position.
- 2.4.2. Line up towbar to nose pin of aircraft and close nose pins.
- 2.4.3. Install lock pins.

2.5. Attach the Towbar to the Tow Tractor

- 2.5.1. Lift to the level of the push back's hitch.
- 2.5.2. Position the push back tractor and install the hitch pin.
- 2.5.3. Tow or push the aircraft only if the tow bars tires are not touching the ground.

2.6. Push the Aircraft

NOTE: This must be done in accordance with the aircraft manual.

Basic Rules:

2.6.1. Prior to moving, make sure that full swivel release pins are released (if applicable).
Also double check that all the tie downs and chocks are removed and aircraft brakes are released.

NOTE: This must be done in accordance with the aircraft manual.

- 2.6.2. Tow Slow, max speed is a brisk walk (Approximately 5 MPH). This will help to minimize the chance of a jack-knife.
- 2.6.3. Do not exceed Aircraft nose wheel angle of towing limits. If not marked or not known, do not exceed 30° from center. Be extra cautious on snow and ice.
- 2.6.4. If you are driving make sure that you have plenty of help; "wing walkers" are helpful.
- 2.6.5. Make sure the operator / driver has direct contact with the pilot at all times while moving the aircraft.

NOTE: Thousand of dollars in damage can occur in a few seconds while towing. It is estimated that 90% of towing damage is due to operator negligence / error. Accidents can be fatal.

2.7. Disconnect the Towbar from the Tug

2.8. Disconnect the Towbar from the Aircraft

Remove lock pins and slide pins into the open position. Carefully lower the tow bar to the ground (use hydraulic lift if installed), and then move push back tractor and towbar clear of the aircraft.

3. Preventive Maintenance

NOTE: Hall Industries recommends using this maintenance procedure monthly (or as required in your airlines maintenance procedure if sooner). Replace worn or damaged parts as needed.

3.1. Check the head retention pin and the soft start eye retaining bolts for wear.

- **3.2.** Check wheels and wheel carriage for bent, broken, or worn parts and security. Lubricate pivot points using Hall lubricant (Part number TB-LUBE).
- **3.3.** Check head assembly for operation of latch mechanism; look for bending, security, etc. Lubricate pivot points using Hall lubricant (Part number TB-LUBE).
- **3.4.** Inspect jaw assembly for worn or damaged parts and security.
- 3.5. Check latch mechanism to ensure proper travel back and forth. Lubricate pivot points.
- **3.6.** Check tow eye and hardware (tug attachment) for condition and security.
- **3.7.** Check main body tube for bending or cracking.
- **3.8.** Clean, repaint, or touch-up paint as required.
- **3.9.** Inspect tags and labels if damaged or missing replace (see the drawings in the attachment section for labels and placements).
- **3.10.** If the towbar is equipped with a hydraulic lift, check the fluid reservoir (in the down / collapsed position). Add fluid if necessary (Part number TB-LUBE-L).

4. Replacement Parts, Kits, & Assemblies

Part Number	QTY (in Kit)	Description
4.1. CRJ-100-11-2-KIT	SHEAR PIN KIT	
4.1.1. CRJ-100-11-2	2	Shear Pin
4.1.2. HRJ-145-11-2A	2	Locknut
4.1.3. CRJ-7-1-E	1	Head Bushing
4.1.4. CRJ-70011-3	2	Adapter Bushing

5. Ordering Info

- **5.1.** Accepted Payments Include (but not limited to):
 - 5.1.1. Visa
 - 5.1.2. MasterCard
 - 5.1.3. American Express
 - 5.1.4. Company Check Wire Transfer

- **5.2.** Standard terms ~ NET 30 with approved credit
- **5.3.** Minimum Orders ~ \$50
- **5.4.** The Order Form is listed in the attachments of this document.

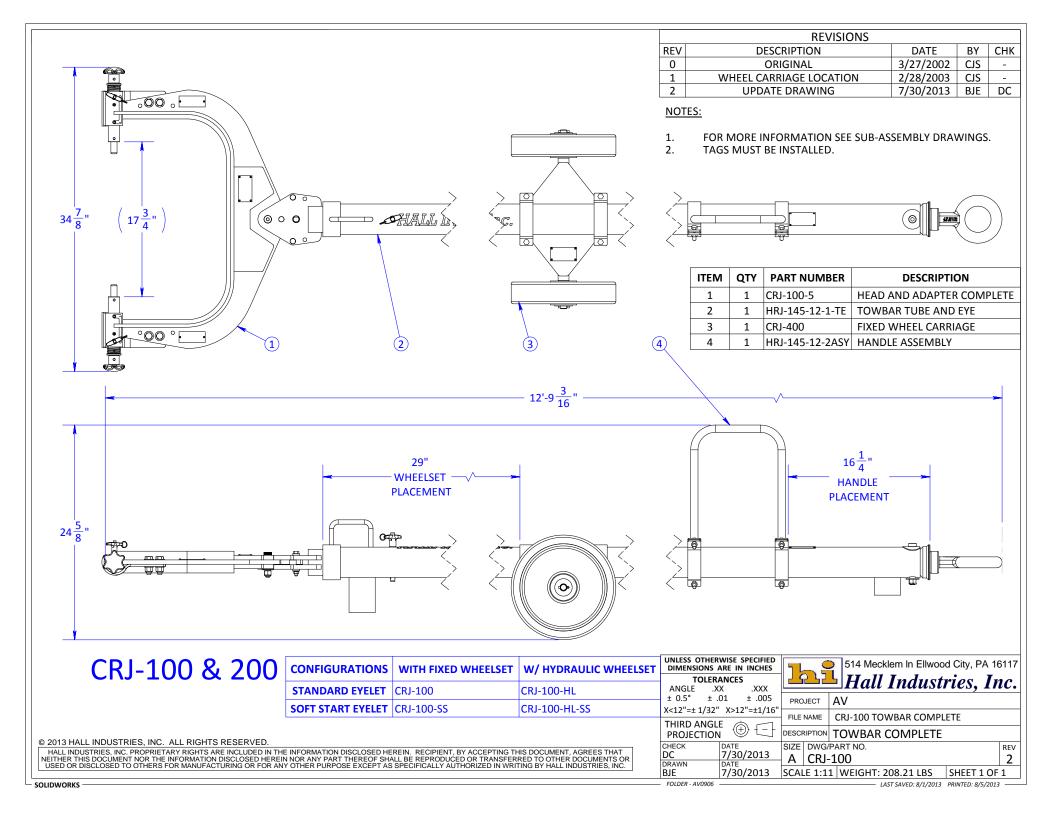
6. How to find the part you need

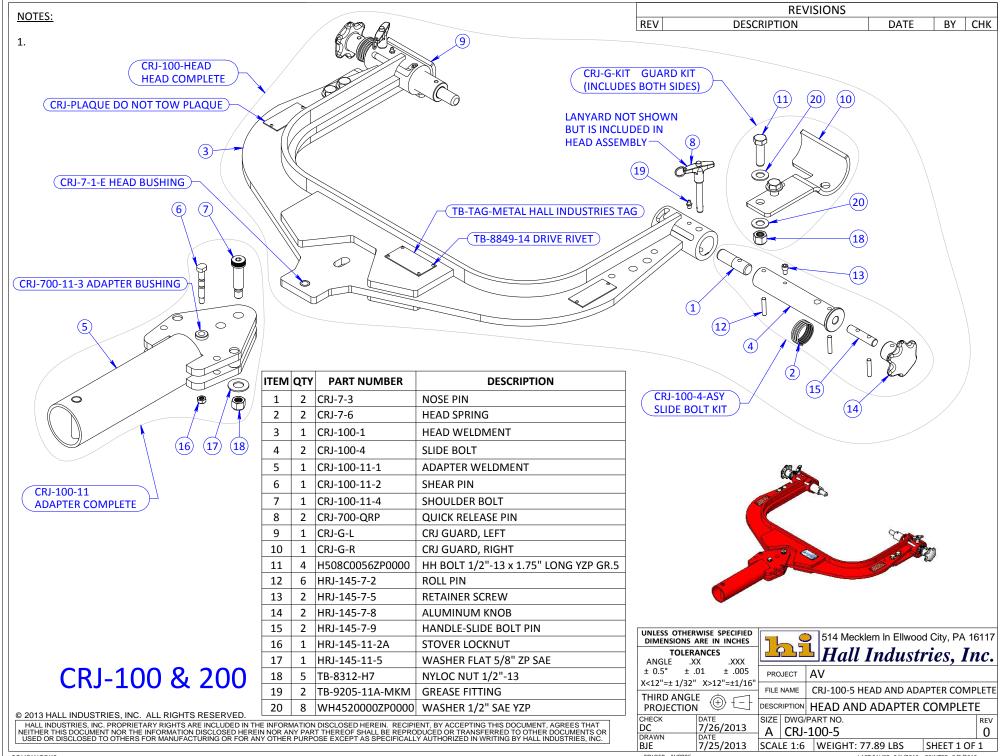
- **6.1.** What pushbar do I need?
 - 6.1.1. Soft Start Eyelet or Standard Eyelet (user preference)
- **6.2.** What wheel carriage do I need?
 - 6.2.1. Fixed or Hydraulic lift (user preference)

7. Attachment List

7.1. CRJ-100	CRJ-100 & 200 Towbar Complete
7.2. CRJ-100-5	CRJ-100 & 200 Towbar Head Complete
7.3. HRJ-145-12-1-TE-SS	Towbar Tube with Soft Start Toweye Assembly
7.4. TB-SS3.5-D8Q	Repairable Soft Start Assembly
7.5. HRJ-145-12-1-TE	Towbar Tube with Standard Toweye Assembly
7.6. CRJ-400	Fixed Wheel Carriage
7.7. REG-LIFT	Regional Towbar Lift ~ Hydraulic 3 ½"
7.8. HRJ-145-12-2ASY	Handle Assembly
7.9. AV1009-0002	Drag Plate 3.5" Bolted
7.10. Soft Start Brochure	
7.11. Order Form	

7.12. Other Products and Custom Design Services



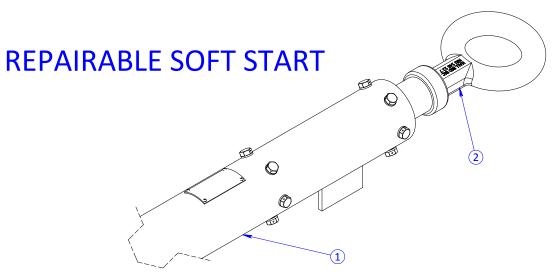


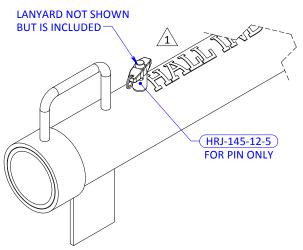
- SOLIDWORKS — FOLDER - AV0906 — LAST SAVED: 8/1/2013 PRINTED: 8/5/2013 -

NOTES:

- 1. ANTI-SIEZE ALL THREADS & WIRE TIE BOLTS.
- 2. TAGS MUST BE INSTALLED.

	REVISIONS			
REV	DESCRIPTION	DATE	BY	СНК
1	ADD DECAL	8/5/2013	BJE	DC





ITEM	QTY.	PART NUMBER	DESCRIPTION
1	1	HRJ-145-12-1-SS	3.5" TUBE WITH TAG AND DECAL
2	1	TB-SS3.5-D8Q	SOFT START 3.5 INCH

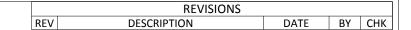
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± 0.5°			JECT	AV		
THIRD AN	32" X>12"=±1/16"	FILE	NAME	HRJ-145-12-1-TE-SS TUBE AND SOFT START TOW	/EYE	
PROJECTI		DESC	RIPTION	TUBE AND SOFT START TOWEY	Ε	
CHECK VTM DRAWN	DATE 6/29/2013	SIZE		PART NO. -145-12-1-TE-SS	REV 1	
BJE	6/29/2013	SCAI	E 1:5	WEIGHT: 103.25 LBS SHEET 1 OF	1	

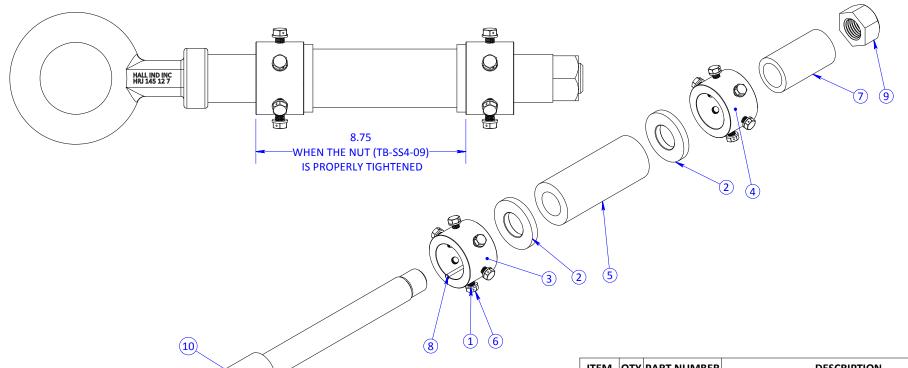
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NOTES:

1. USE ANTI-SEIZE ON ALL THREADED HARDWARE.





ITEM	QTY	PART NUMBER	DESCRIPTION
1	12	8980-2-2	WASHER NORDLOCK
2	2	TB-SS3.5-02	STOP
3	1	TB-SS3.5-04	END GUIDE
4	1	TB-SS3.5-06	END GUIDE NO HOLE
5	1	TB-SS3.5-10	CUSHION
6	12	TB-SS3.5-11	HH BOLT 3/8"-16 x 3/4" LG ZP GR5 DRILLED HEAD
7	1	TB-SS4-05	TUBING
8	1	TB-SS4-07	DOWEL PIN 1/4" DIA. x 2" LONG SS
9	1	TB-SS4-09	NUT 1-1/4"-7 THREAD GR5 ZP
10	1	TB-SS4-11	FYF & SHAFT

UNLESS OTHERWISE SPECIFIED 514 Mecklem In Ellwood City, PA 16117 DIMENSIONS ARE IN INCHES Hall Industries, Inc. **TOLERANCES** ANGLE .XX \pm 0.5° \pm .01 \pm .005 AV ~ SS EYE D8Q, HRJ PROJECT X<12"=± 1/32" X>12"=±1/16" FOLDER / AV0801/ TB-SS3.5-D8Q SOFT START 3.5 INCH ~ FOR MANUAL THIRD ANGLE DESCRIPTION SOFT START 3.5 INCH PROJECTION SIZE DWG/PART NO. CHECK REV

A TB-SS3.5-D8Q

VTM

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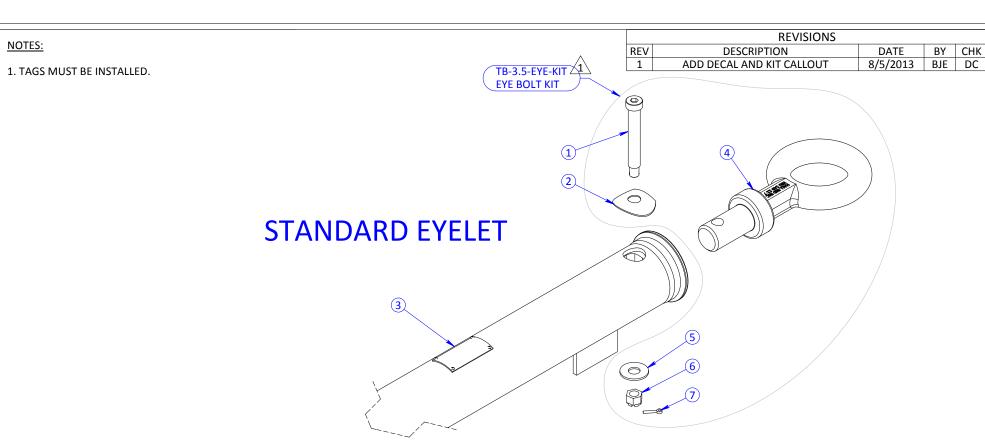
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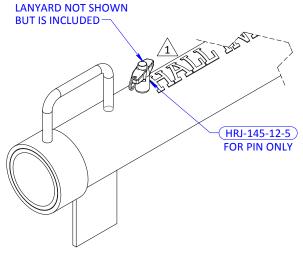
06/29/2013

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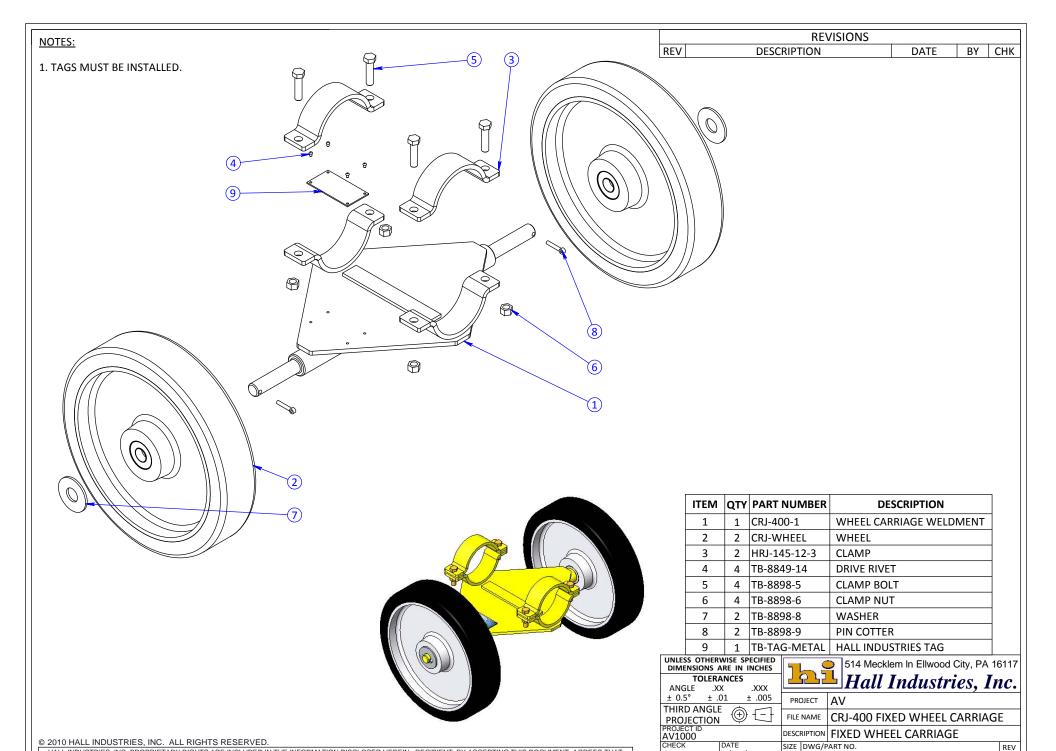
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	HRJ-145-12-13	SHOULDER BOLT
2	1	HRJ-145-12-14	CURVED WASHER
3	1	HRJ-145-12-1	3.5" TUBE WITH TAG AND DECAL
4	1	HRJ-145-12-7	EYEBOLT
5	1	WH0110000SS0000	WASHER SS
6	1	CN08C0000SS0000	CASTLE NUT SS
7	1	CP4280048SS0000	PIN COTTER

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		71		514 Mecklem In Ellwood City, PA 16			
DIMENSIONS ARE IN INCHES TOLERANCES		Hall Industries, Inc.					
			JECT	AV			
THIRD ANGLE		FILE	NAME	HRJ-145-12-1-TE TOWBAR TUBE AND I	EYE		
		DESCR	RIPTION	TOWBAR TUBE AND EYE			
		SIZE	DWG/	PART NO.	REV		
		Α	HRJ-	-145-12-1-TE	1		
BJE	7/15/2013	SCAL	E 1:5	WEIGHT: 91.31 LBS SHEET 1 OF	1		

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DC DRAWN

BJE

1/20/2011

1/20/2011

A | CRJ-400

SCALE 1:5 WEIGHT: 35.23 LBS

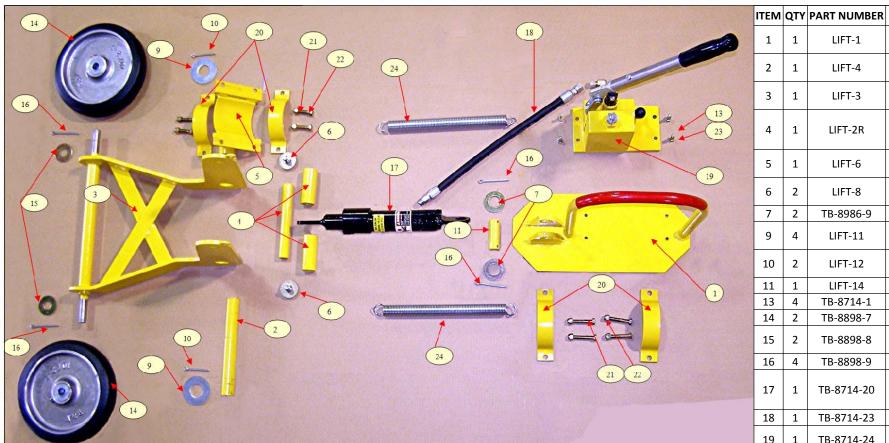
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SHEET 1 OF 1



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	1	1	LIFT-1	PUMP MOUNTING BRACKET
	2	1	LIFT-4	LOWER PIVOT SHAFT
No. of	3	1	LIFT-3	WHEEL ARM WELDMENT
	4	1	LIFT-2R	WHEEL ARM PIVOT SHAFT/ W 2 COLLARS
	5	1	LIFT-6	WHEEL ARM PIVOT WELDMENT
	6	2	LIFT-8	HEX SOCKET SHOULDER BOLT
	7	2	TB-8986-9	FLAT WASHER ZP
	9	4	LIFT-11	FLAT WASHER SAE ZP
	10	2	LIFT-12	COTTER PIN, PIVOT SHAFT
9	11	1	LIFT-14	CLEVIS PIN
	13	4	TB-8714-1	HEX BOLT GR5 ZP
8	14	2	TB-8898-7	WHEEL 10"
The same	15	2	TB-8898-8	FLAT WASHER USS ZP
Sin N	16	4	TB-8898-9	COTTER PIN, AXLE
100	17	1	TB-8714-20	HYD CYLINDER W/QUICK DISC, CPLG
	18	1	TB-8714-23	HYDRAULIC HOSE
	19	1	TB-8714-24	HYDRAULIC PUMP ASSEMBLY
	20	4	HRJ-145-12-3	HANDLE/WHEEL ASSY CLAMP
	21	8	TB-8898-5	HEX BOLT GR5 ZP
	22	8	TB-8898-6	HEX NUT NYLOCK ZP
	23	4	TB-8714-2	LOCK WASHER ZP
	24	2	TB-8714-10	EXTENSION SPRING
	25	1	TB-TAG-METAL	IDENTIFICATION TAG (NOT SHOWN)
	26	4	TB-8849-14	DRIVE RIVET FOR TAG (NOT SHOWN)

DESCRIPTION

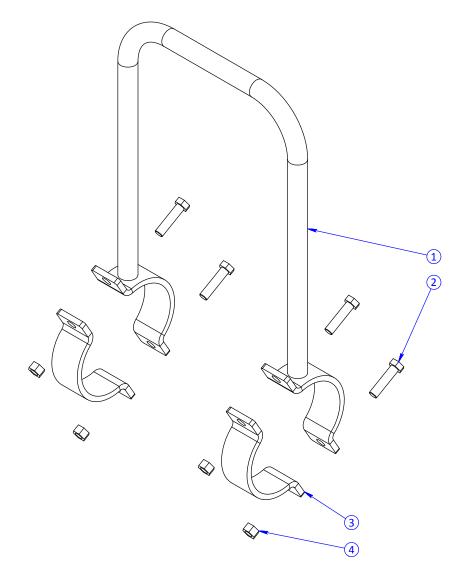


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± 0.5° ± .01 ± .005 THIRD ANGLE THIRD ANGL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ANGLE .XX .XXX			<u></u>	514 Mecklem In Ellwood Hall Indust	•	
THIRD ANGLE A TOTAL PROPERTY OF THE PROPERTY O			PRO	DJECT			
PROJECTION S TREGETT REGIONAL TOWNSAIL IT	PROJECTION	FILE	NAME	REG-LIFT REGIONAL T	OWBAR LI	FT	
PROJECT ID AV1000 DESCRIPTION REGIONAL TOWBAR LIFT			DESCI	RIPTION	REGIONAL TOWBAR L	.IFT	
CHECK DATE SIZE DWG/PART NO. RE			SIZE	DWG/P	ART NO.		REV
DC 11/20/2010 A REG-LIFT 0			Α	A REG-LIFT		0	
BJE 11/20/2010 SCALE 1:1 WEIGHT: 50 LBS SHEET 1 OF 1			SCA	LE 1:1	WEIGHT: 50 LBS	SHEET 1 OF	1

	REVISIONS									
REV	DESCRIPTION	DATE	BY	CHK						
1	CLAMP ANGLE	12/17/2012	BJE	VTM						



ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	HRJ-145-12-2	HANDLE
2	4	TB-8898-5	CLAMP BOLT
3	2	HRJ-145-12-3	CLAMP
4	4	TB-8898-6	CLAMP NUT

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES **TOLERANCES** ANGLE .XX .XXX ± 0.5° ± .01 ± .005

514 Mecklem In Ellwood City, PA 16117 Hall Industries, Inc.

PROJECT FILE NAME

HRJ-145-12-2ASY HANDLE ASSEMBLY

THIRD ANGLE
PROJECTION
PROJECTIO
AV1000
CHECK D
DC 1
DRAWN D
DIE 1 1/20/2011 1/20/2011

DESCRIPTION HANDLE ASSEMBLY SIZE DWG/PART NO. A | HRJ-145-12-2ASY

SCALE 1:4 WEIGHT: 3.78 LBS

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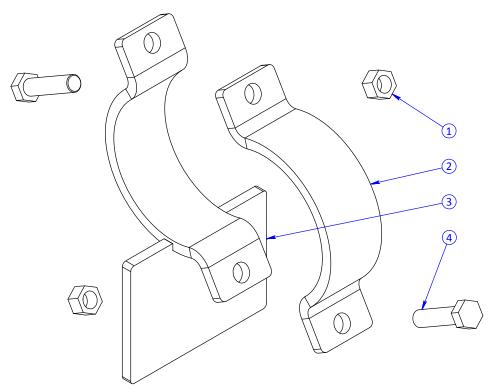
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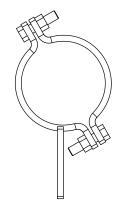
SHEET 1 OF 1

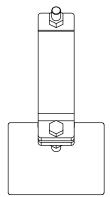
NOTES:

USE WHEN FACTORY INSTALLED DRAG 1. PLATES HAVE BEEN WORN DOWN.

REVISIONS							
REV	DESCRIPTION	DATE	BY	CHK			







ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	TB-8898-6	CLAMP NUT
2	1	HRJ-145-12-3	CLAMP
3	1	AV1009-3001	DRAG PLATE WELDMENT
4	2	TB-8898-5	CLAMP BOLT

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ANGLE .		Hall Industries, Inc.						
± 0.5° ±		PR	OJECT	А١	/			
_	THIRD ANGLE PROJECTION			FILE NAME AV1009-0002 TOWBAR DRAG PLATE 3.5 INCH BOLTED				
PROJECT ID AV1009		DESC	RIPTION	TC	WBAR DRAG PLATE 3.	5 INCH BOLT	ΓED	
CHECK	DATE	SIZE	DWG/P	ART	NO.		REV	
BJE	6/27/2012	Α	AV1	00	9-0002		0	
BJE	6/27/2012	SCA	LE 1:2	١	WEIGHT: 2.57 LBS	SHEET 1 OF	1	

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HALL Technical Services, LLC

AIRCRAFT TOWBARS - SOFT START

"The GSE Problem Solvers"

BENEFITS

- Decreases shear pin failure resulting in lower more reliable pushback times
- · Less shock into the nose gear of the plane





FEATURES

- · Replaceable spring elements
- · Towbar rollover protection
- Approximately one inch of travel during pushing or pulling (2" overall travel)





For more information please visit us online at www.halltechservices.com, call us at 724.824.7100, or email us at info@halltechservices.com

Hall Industries Equipment Division ~ AIRLINE ORDERS

FAX#: 724 758-1558 PHONE #: 724 752-2000

ORDER DATE:	TAKEN BY:	TIME: _	AIRLINE	CODE:			
PERSON CALLING:		PHONE#:		FAX:			
ORDER DATE:TAKEN BY:TIME:AIRLINE CODE:PERSON CALLING:PHONE#:FAX:E-MAIL ADDRESS:CUSTOMER P.O.#							
MASTER CARD#							
EXP. DATE:	_ CVC#						
SHIP DATE:	HOW TO	O SHIP: UPS: GRD	RED	OTHER			
SHIP DATE:O/N	O/N P1	OTHER	Acct. #				
TRUCKING COMPANY:							
HUB:		EMPLOYEE #					
BILLING ADDRESS:		SHI	P TO ADDRESS:				
		_					
PART NUMBER:	DESC	RIPTION:		QTY:	PRICE:		
NOTES:							

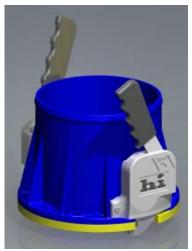
Other Products and Custom Design Services:

Hall Industries provides a number of additional products beyond our towbar line. Some of the custom projects that we have done are shown below. We have our own engineering staff along with machine, fabrication, and GSE maintenance shops. We can design and build your ideas to increase safety, productivity, and profits.



0017-0001 Custom Towbar (Solve a Problem)

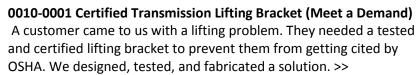
<< This project involved designing and manufacturing a custom towbar to be used in the Nuclear Industry. This towbar shipped complete with custom shear pins calibrated to the application.



IA-8980 Preconditioned Air Inlet (PCA) Adapters

<< Our PCA Inlet Adapters are part of our GSE product line. We inventory all of the parts and can ship usually the same day as ordered.>>









<<1000-3002 Adapter 8312 to Tronair 1000-0001 Hydro Adapter Assembly>> Hall Industries offers adapters for nearly every towbar (even competitors) that allow you to use our towbar tubes / heads with your existing equipment.



Besides the products listed above some of the other things that we sell include PCA ducting, Solid PBB tires, and baggage cart tires.

Feel free to contact us about your GSE problems; after all we are "The Problem Solvers".