

\$35.00

MPL40

PARTS MANUAL

JERR-DAN[®]

An Oshkosh Truck Corporation Company

1080 Hykes Road

Greencastle, PA 17225

Phone (717) 597-7111

www.jerr-dan.com

AJ-AF

Part Number 5-376-000093

Rev. 3

PARTS

To order repair parts, call your nearest Jerr-Dan Distributor or call 800-926-9666 for further information.

Give Sales Order No., Serial No. and Model No. along with part number and description of part.

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Subframe Installation

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 07/12/05

Item: 2509700043

SUBFRAME INSTALL MPL40

From Item: 2509700043

To Item: 2509700043

Reference: D/3774A

Last Changed Date:

Revision #0/1/3774

BIN: WA03

UOM: PC

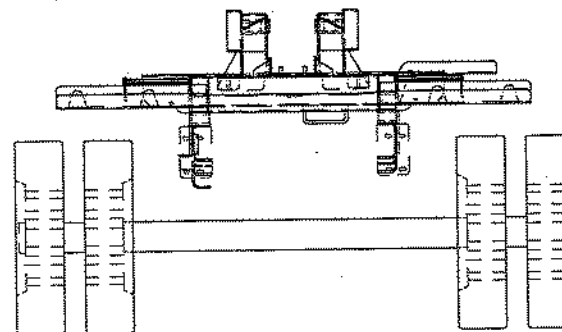
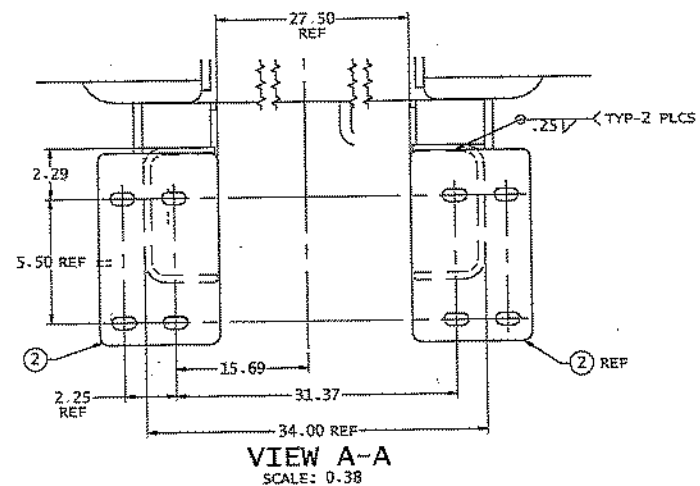
Quantity 1 Receive into Whse: MYPT

Ball Dr	Bin						
-oon Sz	Component	Type	Location	Description	QtyPer	UOM	Reference
=====	=====	=====	=====	=====	=====	=====	=====
01	D 3868000255	M	WA00	SUBFRAME WELD MPL40 (NO-LUBE)	1.000	PC	-
02	A 4706004919	M	WA03	PLATE 0.31 x 5.25 x 8.50	2.000	PC	-

*** End of Item ***

*** End of Report ***

DWG NO	REV
2-509-700043	01



JEFFERDAN INTERNATIONAL 10000 W. 10TH AVE. DENVER, CO 80202 TEL: 303-751-1000 FAX: 303-751-1001		REP: S/S N/A DATE: 05/02/95 ORDER NO: 05-00043 CREDIT: 01	
THIS COMPANY AND ITS DIRECTOR ARE NOT RESPONSIBLE FOR THE CONTENTS OF THIS DOCUMENT. THE CONTENTS OF THIS DOCUMENT ARE THE PROPERTY OF THE UNITED STATES GOVERNMENT AND ARE NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM THE UNITED STATES GOVERNMENT.		IF IN WYOM. SEC. 17-2-101, THE STATE OF WYOMING SHALL HAVE THE RIGHT TO REPRODUCE AND TRANSMIT THIS DOCUMENT WITHOUT PAYMENT OF A FEE.	
TITLE SUBFRAME INSTALL MP40		ORDER NO: 05-00043 CREDIT: 01	

Subframe Assembly Kit

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 07/11/05

Item: 3577000102

KIT SUBFRAME ASSY MPL40

From Item: 3577000102

To Item: 3577000102

Last Changed Date:

Reference:D/3774A

Revision #0/0

BIN: WA04

UOM: PC

Quantity	1	Receive into Whse: MYPT
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Seq	Ball Dr	Bin	No.	-oon	Sz	Component	Type	Location	Description	QtyPer	UOM	Reference	Effectivity
1	01	B	4706004950	M	WA04				PLATE 0.50 X 10.00 X 13.50	2.000	PC		-
4	02	3	7115181650	P	030601	a54			CAPSCREW 0.50"-13NC X 2.00" HEX HEAD	12.000	PC		-
3	03	N	7950180153	P	000104	x01			FLATWASHER .50" NOM HARDENED	12.000	pc		-
5	04	N	7660182601	P	000105	x01			LOCKNUT .50"-13NC GR5 HEC NYLOC	12.000	PC		-

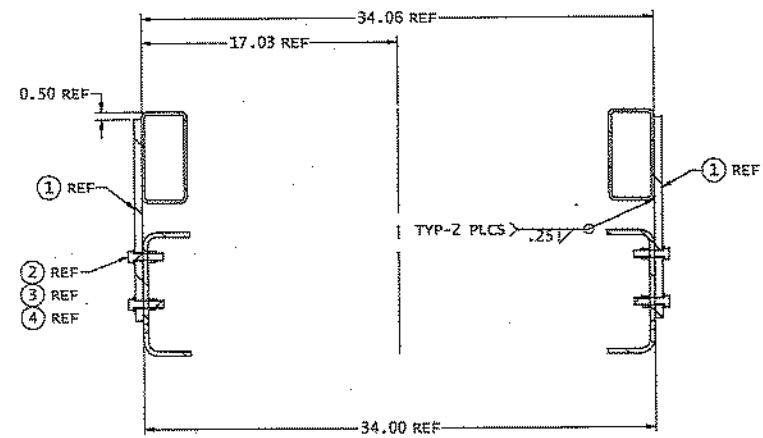
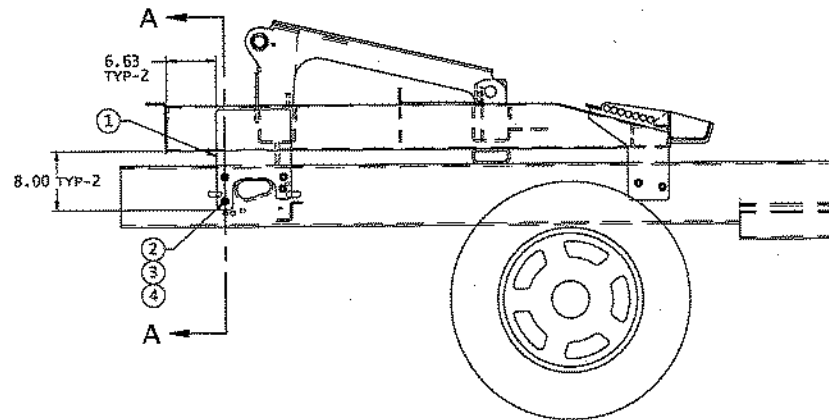
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*** End of Report ***

KIT SUBFRAME INSTALL MPL40

DWG NO. 3-577-000102 REV 00

NOTE:
HOLES TO BE DRILLED THRU TRUCK FRAME USING
MOUNTING PLATES AS A TEMPLATE.



SECTION A-A
1:4

JEROLDAN Industrial Tool & Equipment Division		PRICE 1 OF 1 QUANTITY 1
KIT SUBFRAME INSTALL MPL40		DATE 01/15/95
DWG NO. 3-577-000102		REV 00

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/01/05

Item: 3577000103

KIT SUBFRAME ASSY MPL40 FORD 19,000#

From Item: 3577000103

To Item: 3577000103

Reference: D/3774A

Last Changed Date:

Revision #0/1/3774

BIN: WA04

UOM: PC

Quantity 1 Receive into Whse: MYPT

Ball Dr	Bin						
-oon Sz	Component	Type	Location	Description	QtyPer	UOM	Reference
=====	=====	=====	=====	=====	=====	=====	=====
01	B 4706004950	M	WA04	PLATE 0.50 X 10.00 X 13.50	2.000	PC	-
02	3 7115181650	P	030601 a54	CAPSCREW 0.50"-13NC X 2.00" HEX HEAD	12.000	PC	-
03	N 7950180153	P	000104 x01	FLATWASHER .50" NOM HARDENED	12.000	pc	-
04	N 7660182601	P	000105 x01	LOCKNUT .50"-13NC GR5 REC NYLOC	12.000	PC	-
05	A 4705000665	M	WA04	PLATE 0.38 X 5.50 X 10.50	2.000	PC	-

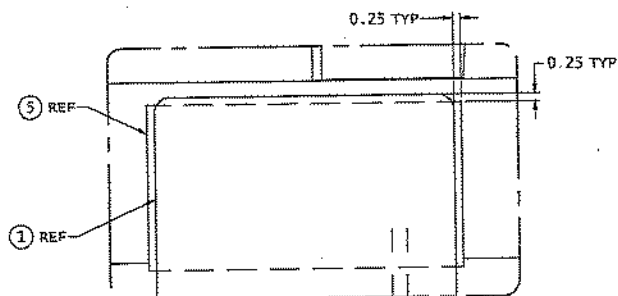
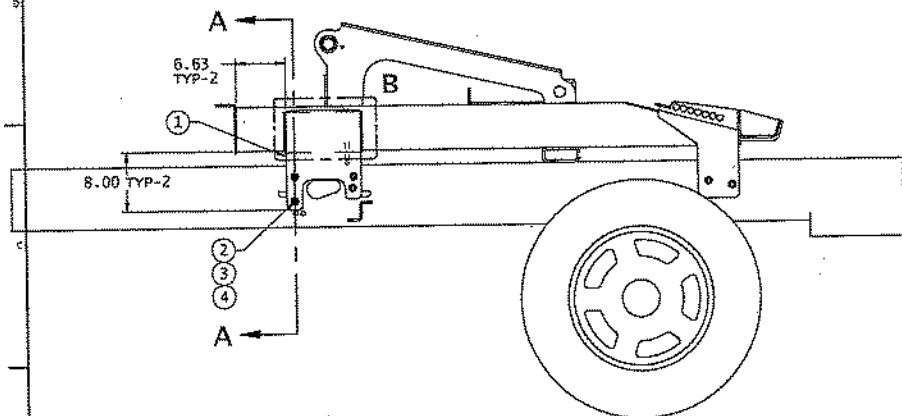
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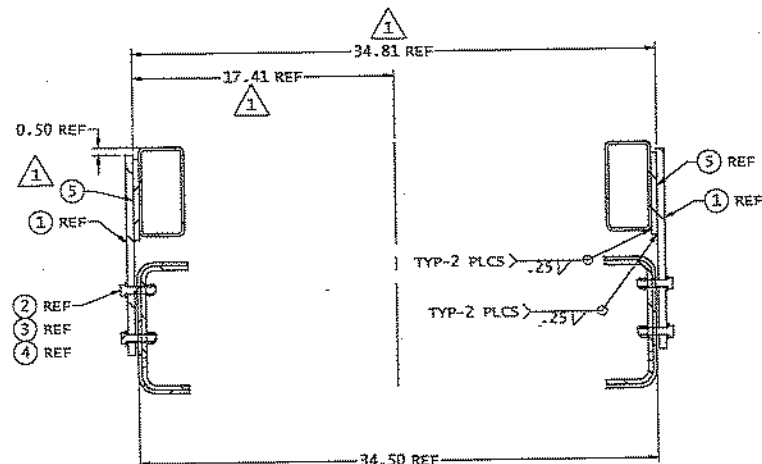
KIT SUBFRAME INSTALL MPL40 FORD 19,000#

DWG NO 3-577-000103 REV 01

NOTE:
HOLES TO BE DRILLED THRU TRUCK FRAME USING
MOUNTING PLATES AS A TEMPLATE.



DETAIL B
1:2



SECTION A-A
1:4

01	PICTURE CHANGE TO STEP 5: 14.91 WAS 10.25/16.00	01/25/16 000	01/25/16 000	KIT SUBFRAME INSTALL MPL40 FORD 19,000#
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JERRARD

Assembled Components

KIT SUBFRAME INSTALL MPL40 FORD 19,000#	SHEET 2 OF 1
D 3-577-000103 01	REV

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 07/11/05

Item: 3577000106

KIT SUBFRAME INSTALL MPL40 C3500

From Item: 3577000106

To Item: 3577000106

Reference: D/3774A

Last Changed Date:

Revision #0/0

BIN: WA04

UOM: PC

Quantity

1

Receive into Whse: MYPT

Seq	Ball	Dr	No.	-oon	Sz	Component	Type	Location	Description	QtyPer	UOM	Reference	Effectivity
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1	01	B	4706004999	M	WA04				PLATE 0.50 x 10.00 x 15.00	2.000	PC		-
4	02	3	7115181650	P	030601	a54			CAPSCREW 0.50"-13NC X 2.00" HEX HEAD	12.000	PC		-
3	03	N	7950180153	P	000104	x01			FLATWASHER .50" NOM HARDENED	12.000	pc		-
5	04	N	7660182601	P	000105	x01			LOCKNUT .50"-13NC GR5 HEC NYLOC	12.000	PC		-

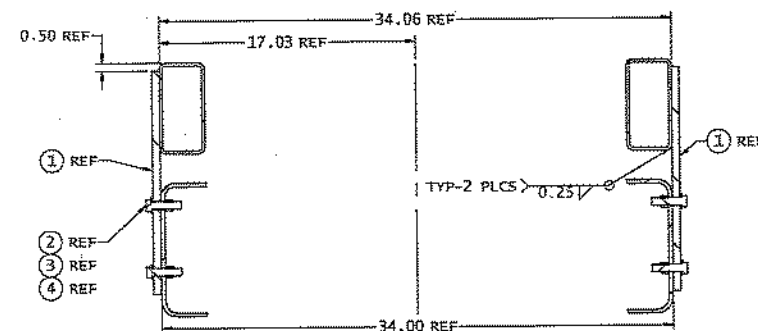
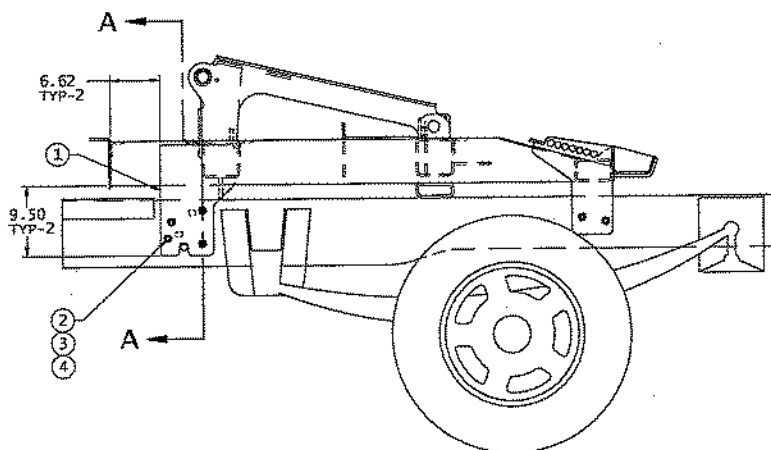
*** End of Item ***

*** End of Report ***

KIT SUBFRAME INSTALL MPL40 C3500

DWG NO 3-577-000106 REV 00

NOTES:
HOLES TO BE DRILLED THRU CHASSIS FRAME USING
MOUNTING PLATES AS A TEMPLATE



SECTION A-A
1:4

JEHRADAN Industrial Equipment Division		SHEET 1 OF 1 PARTIAL	
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Hydraulic Tank Installation

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 07/11/05

Item: 2509650041

HYDRAULIC RESERVOIR INSTALL (MPL40)

From Item: 2509650041

To Item: 2509650041

Last Changed Date:

Reference: D/3774B

Revision #0/0

BIN: WA00

UOM: PC

Quantity	1	Receive into Whse: MYPT
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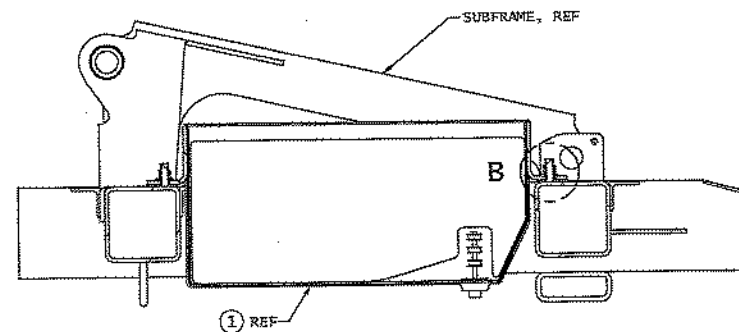
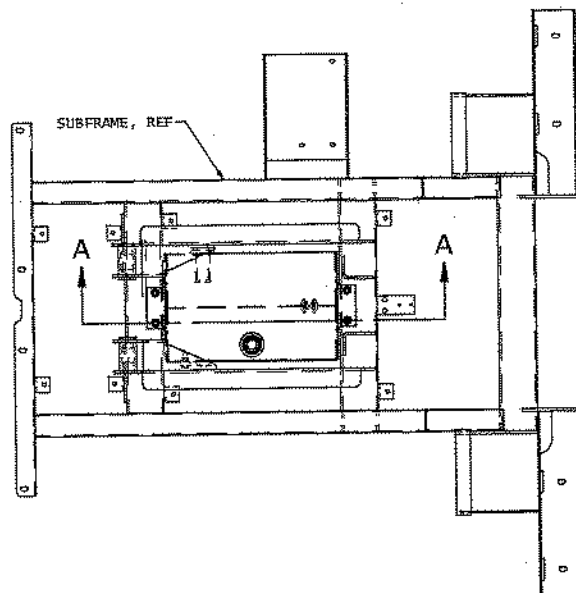
Seq	Ball Dr	Bin	No.	-oon Sz	Component Type	Location	Description	QtyPer	UOM	Reference	Effectivity
1	01	D	3750000049	M	WA00		RESERVOIR WELD HYDRAULIC (MPL40)	1.000	PC		-
2	02	B	4090000008	M	WA00		BELT 0.13 x 2.00 x 5.50 POLY	2.000	PC		-
3	03		7950180141	P	A99		FLATWASHER .50" NOM NARROW	4.000	pc		-
4	04	N	7660182601	P	000105 x01		LOCKNUT .50"-13NC GR5 HEC NYLOC	4.000	PC		-

*** End of Item ***

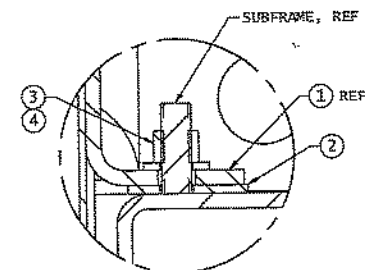
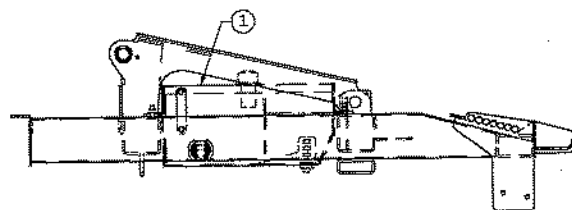
*** End of Report ***

HYDRAULIC RESERVOIR INSTALL MPL

DWG NO 2-509-650041 REV 00



SECTION A-A
1:4



DETAIL B
1:1

JEROLDAN HYDRAULIC RESERVOIR INSTALL MPL		1 OF 1 C 0204
HYDRAULIC RESERVOIR INSTALL MPL 1:4 3774 01/04/05	2-509-650041 00	1

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/04/05

Item: 3750000049

RESERVOIR WELD HYDRAULIC (MPL40)

From Item: 3750000049

To Item: 3750000049

Reference:D/3774B

Last Changed Date:12/14/04

Revision #0/1/3774

BIN: WA00

UOM: PC

Quantity

1

Receive into Whse: MYPT

Ball Dr

Bin

-oon Sz Component Type Location

Description

QtyPer UOM

Reference

Effectivity

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01	B	4811000612	M	WS03	SHEET 11GA x 14.12 x 42.00	1.000	PC	-
02	B	4017001393	M	WS03	ANGLE 3.85 X 2.62 X 0.25 X 14.12	2.000	PC	-
03	B	7470000009	P	100904 h08 J39	GAUGE LIQUID LEVEL W/ THERMOMETER	1.000	PC	-
04	C	4686000197	M	WS03	PANEL 11GA x 9.50 x 22.25	1.000	PC	-
05	B	4811000679	M	WS03	SHEET 11GA x 22.88 x 35.73	1.000	PC	-
06	A	7449000012	P	c10	FLANGE 1.00" NPT WELD #FDF-100	2.000	PC	-
07	A	7449000011	P	c09	FLANGE 2.00" NPT WELD #FDF200	1.000	PC	-
08	E	7183000002	P	100205 b78 d21	FILLER/ BREATHER CAP ASSY	1.000	PC	-
09	A	7430000010	P	e03	FILTER TANK FLOWLINE TMF-25-5-5.00 LONG	1.000	PC	-
10	A	7701000026	P	c16	PLUG 1.0"NPT X 1.5"NPT MAGNETIC	1.000	pc	-

*** End of Item ***

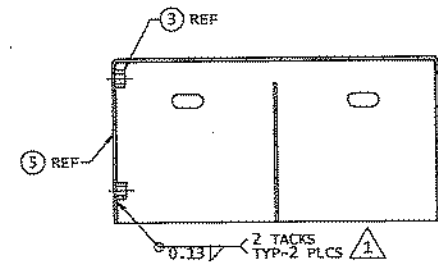
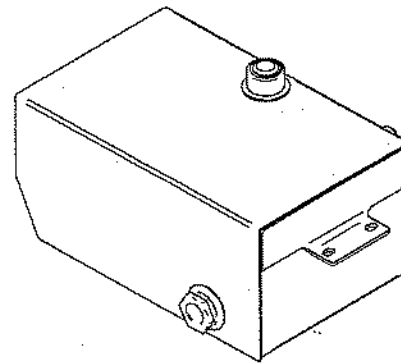
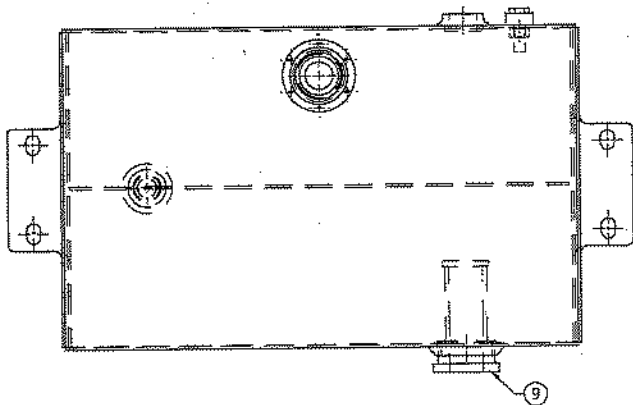
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RESERVOIR WELD HYDRAULIC (MPL40)

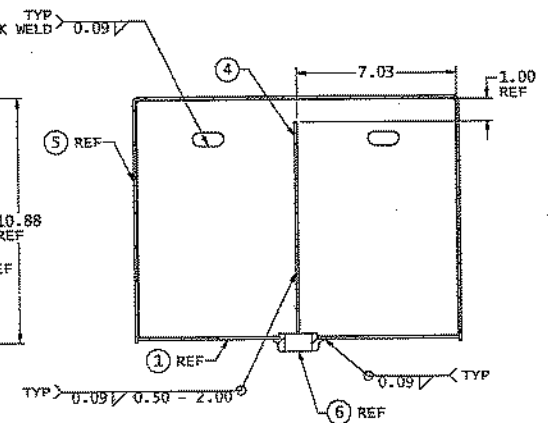
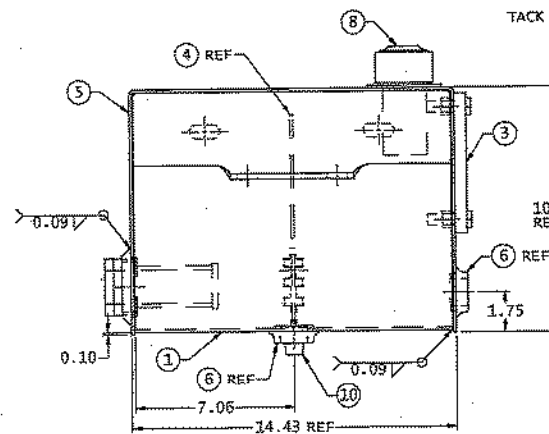
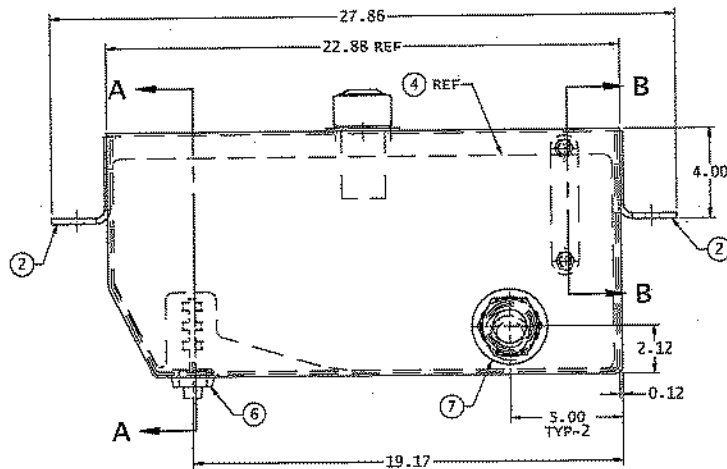
DWG NO 3-750-000049 01 REV

NOTES:

1. 1/2" NUTS FROM LIQUID LEVEL GAUGE KIT (ITEM 3) MUST BE WELDED INSIDE TANK FIRST BEFORE ASSEMBLY.
2. DEBURR AND CLEAN AREAS AROUND HOLES FOR SIGHT GAUGE. THIS WILL ALLOW GAUGE TO SEAL PROPERLY.
3. TACK WELD ITEMS 2 TO ITEM 1 BEFORE LOCATING AND WELDING ITEM 5 INTO PLACE.
4. SKIP WELD ITEM 4 TO ITEM 1 BEFORE LOCATING AND WELDING ITEM 5 INTO PLACE.



SECTION B-B



SECTION A-A

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13-750-000049 01 13-750-000049 01	13-750-000049 01 13-750-000049 01	13-750-000049 01 13-750-000049 01

Underlift Boom Installation

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 07/12/05

Item: 2170000069

BOOM INST MPL-40 KNEE

From Item: 2170000069

To Item: 2170000069

Last Changed Date: 03/22/05

Reference: D/3774A

Revision #A/1/3774

BIN: WA03

UOM: PC

Quantity	1	Receive into Whse: MYPT	BIN: WA03	UOM: PC
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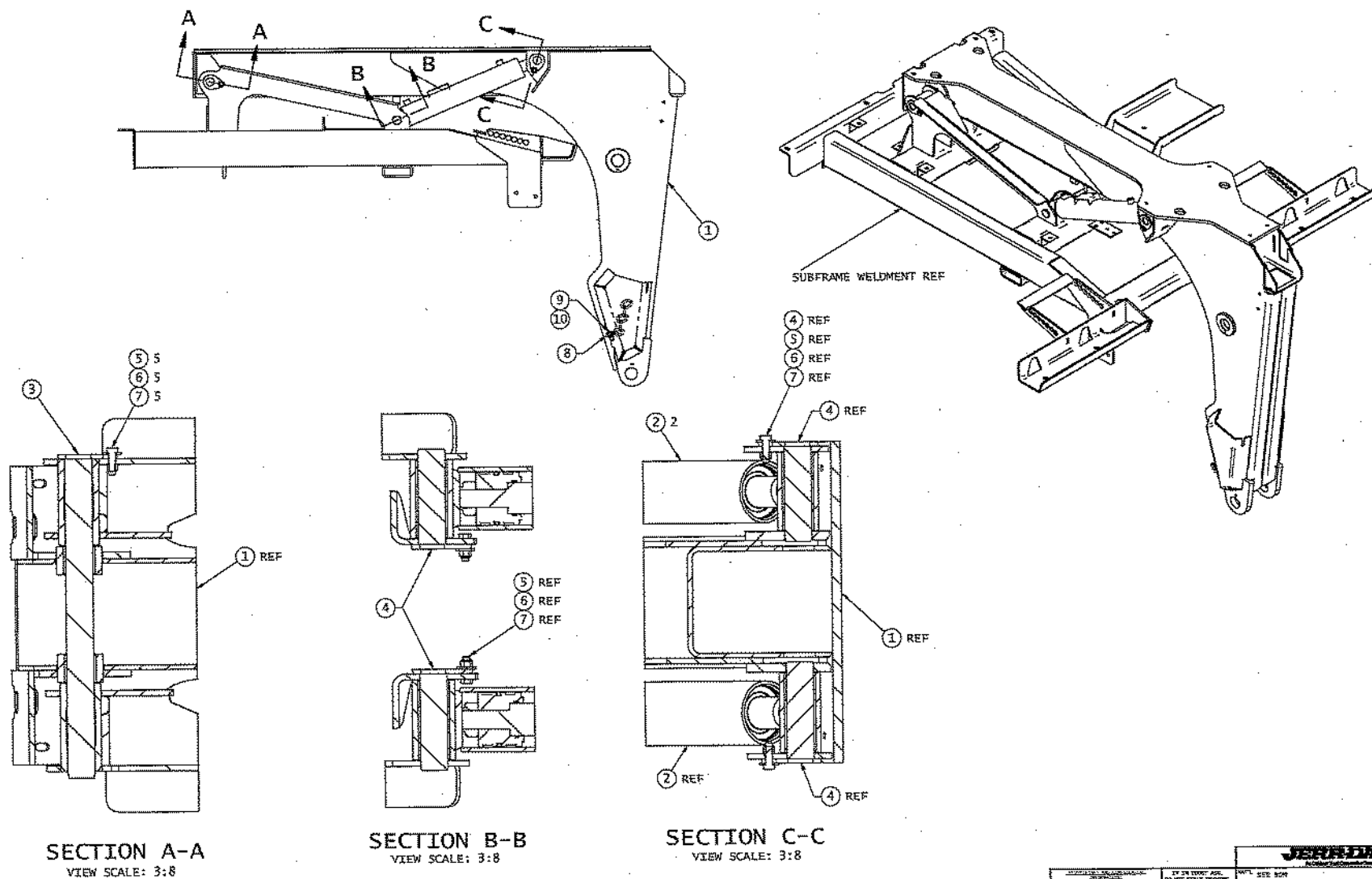
Ball Dr	Bin						
-oon Sz Component Type Location	Description	QtyPer	UOM	Reference	Effectivity		
=== == =====	=====	=====	==	=====	=====		
01 D 3170000369 M WA00	BOOM WELD OUTER	1.000	PC		-		
02 C 3320000153 M WA00	CYLINDER ASSY 3.00/1.75 X 25.40-40.51	2.000	PC		-		
03 B 3691000241 M WA00	PIN WELD 1.50 DIA X 17.62	1.000	PC		-		
04 B 3691000240 M WA00	PIN WELD 1.50 DIA X 5.31	4.000	PC		-		
05 N 7115161050 P 022504 x01	CAPSCREW .38"-16NC X 1.25" HEX HEAD	5.000	PC		-		
06 N 7660162601 P 000105 x01	LOCKNUT .38"-16NC GR5 NYLOC	5.000	pc		-		
07 N 7950160161 P 000104 A97 x01	FLATWASHER .38" NOM WIDE - PLATED	5.000	PC		-		
08 B 7262000040 P m08 RM-OS	CHAIN .31 x 10' GR. 70 W/LATCH HOOK	2.000	PC	3774	03/21/05-		
09 N 7660182601 P 000105 x01	LOCKNUT .50"-13NC GR5 HEC NYLOC	2.000	PC	3774	03/21/05-		
10 N 7115181050 P 080305 a48 x01	CAPSCREW .50"-13NC X 1.25" HEX HEAD	2.000	PC	3774	03/21/05-		

*** End of Item ***

*** End of Report ***

BOOM INST MPL-40 KNEE

2-170-000069 01



APPROVED FOR RELEASE BY THE NATIONAL ARCHIVES		DATE 11/17/05		BY SP-10	
ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED		DATE 11/17/05		BY SP-10	
EXCEPT WHERE SHOWN OTHERWISE, THIS DOCUMENT IS UNCLASSIFIED		DATE 11/17/05		BY SP-10	
DATE 11/17/05		BY SP-10		DATE 11/17/05	

JEFFERIAN		1 OF 1	
BOOM INST MPL-40 KNEE		REV 01	
DATE 11/17/05	BY SP-10	DATE 11/17/05	BY SP-10

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 07/15/05

Item: 3320000153

CYLINDER ASSY 3.00/1.75 X 25.40-40.51

From Item: 3320000153

To Item: 3320000153

Last Changed Date:12/14/04

Reference:C/3774B

Revision #0/1/3774

BIN: WA00

UOM: PC

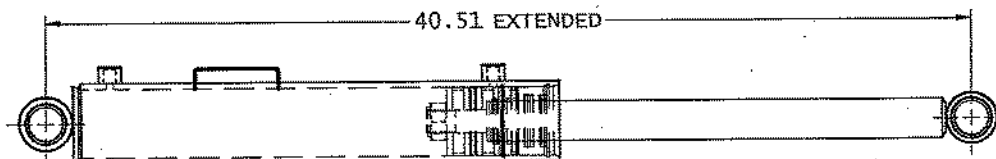
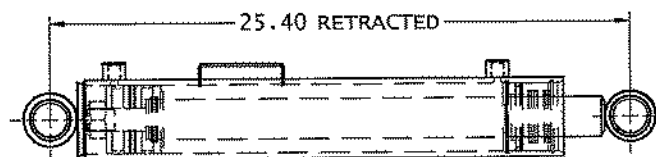
Quantity 1 Receive into Whse: MYPT

Ball Dr	Bin								
-oon Sz	Component	Type	Location	Description	QtyPer	UOM	Reference	Effectivity	
===	==	=====	=====	=====	=====	==	=====	=====	
01	C 3071000137	M	CC05	BARREL WELD "3153"	1.000	PC		-	
02	C 3763000144	M	CC05	ROD WELD "3151" "3153"	1.000	PC		-	
03	B 3698000001	P		PISTON ASSY 3.00 BORE x 1.75 ROD	1.000	PC		-	
04	B 3553000011	P		HEAD ASSY 3.00 BORE x 1.75 ROD	1.000	PC		-	
05	A 7661000034	P	000105 d07	NUT 1.00"-14NF NYLON INSERT HEX	1.000	PC		-	
06	A 7754000002	P	b62	RING RETAINING 3" #1300-300	1.000	pc		-	
07	N 7754000026	P	b65	RING RETAINING SMALLY WHM 300	1.000	pc		-	
08	A 7082000030	P	g01	BEARING 1.75 OD x 1.50 ID x 1.50 IFR	4.000	PC		-	

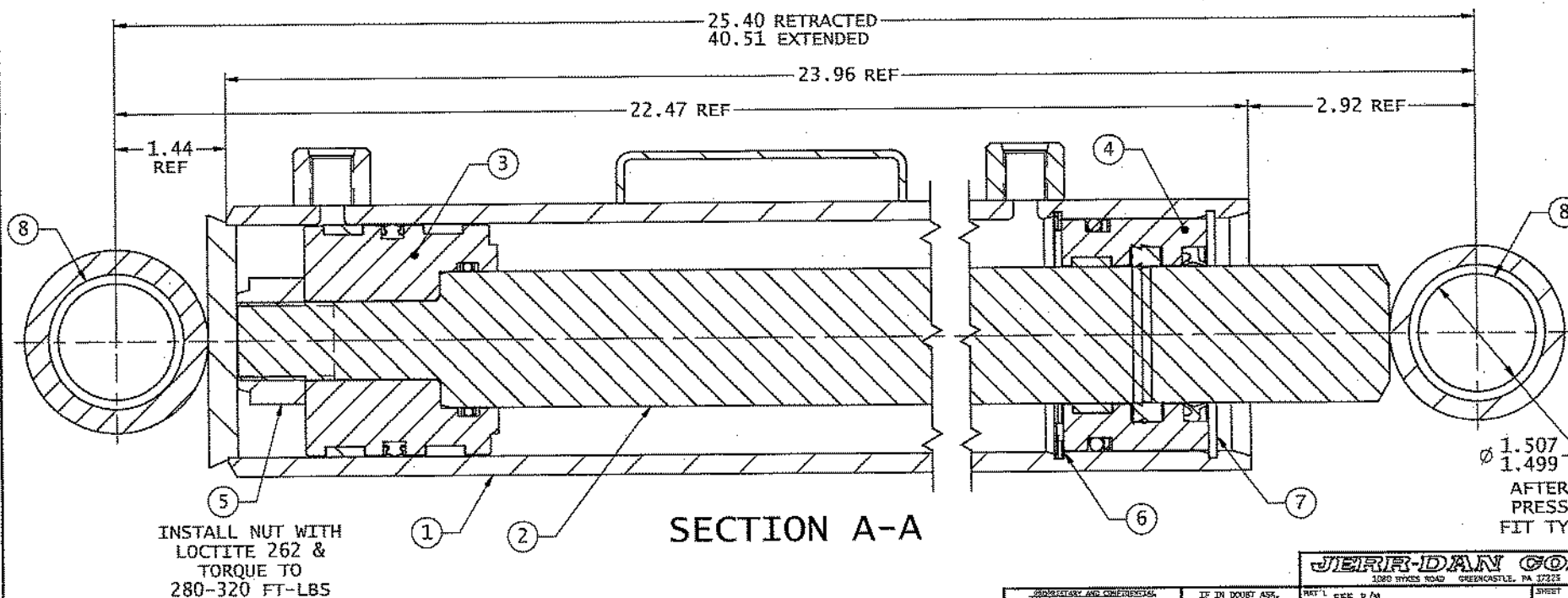
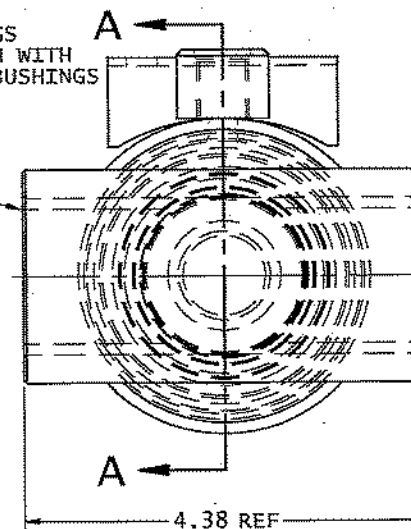
*** End of Item ***

*** End of Report ***

CYLINDER ASSY 3.00/1.75 X 25.40-40.51

DWG NO
3-320-000153REV
01

INSTALL BEARINGS
(ITEM #8) FLUSH WITH
ENDS OF STEEL BUSHINGS



SECTION A-A

NOTE:

*PLUG PORTS FOR STORAGE

011 ALL 137741 UPDATED VIEWS PER DETAIL CHANGES: 3/8/05 185K
REVISIONS: EBN DESCRIPTION DATE BY

EXEMPTED FROM CONFIDENTIALITY
IF IN DOUBT ASK
DO NOT SCALE DRAWING.
REMOVE ALL BURRS AND
SHARP CORNERS.
TOLERANCES UNLESS
OTHERWISE SPECIFIED
2 PLACE DEC ±0.002
3 PLACE DEC ±0.005
ANGLE DEC ±0.5°
N/A TO HORIZONTAL TOLERANCES

DATE 12/14/04
DRAWN STK
C 3-320-000153 01

JERR-DAN CORP
1080 BYKES ROAD GREENCASTLE, PA 17223

TITLE CYLINDER ASSY 3.00/1.75 X 25.40-40.51
SCALE 1:1
SHEET 1 OF 1
WEIGHT E 42.0#

07/12/03 - 322000153-01.dwg

***** Engineering Bill of Materials for ALTERNATE Route *****

** Report Excludes Shrinkage.

Effective as of 07/13/05

Item: 3698000001

PISTON ASSY 3.00 BORE x 1.75 ROD

From Item: 3698000001

To Item: 3698000001

Reference: B/2962-A

Last Changed Date: 08/11/00

Alternate Route #A215015		Revision #0/0	
Quantity	1	Receive into Whse: HYKS	UOM: PC
		BIN:	

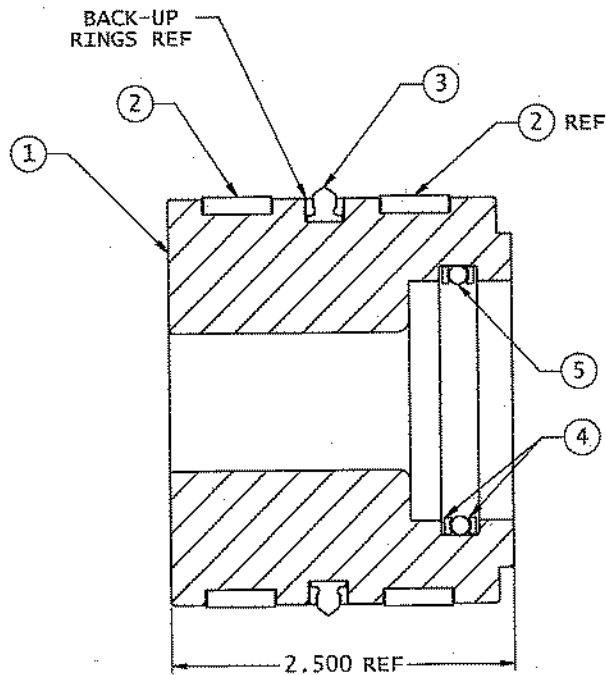
Seq	Ball	Dr	No.	-oon	Sz	Component	Type	Bin	Location	Description	QtyPer	UOM	Reference	Effectivity
1	01	B	46980000007	P	1010	PISTON 3.00 BORE X 1.75 ROD X 2.50 LG					1.000	pc		-
2	02	A	77540000003	P		RING WEAR 3.00 x 0.50 x 0.120/0.125 THK					2.000	pc		-
3	03	A	77960000063	P		SEAL PISTON LOCKING T 3.00" BORE					1.000	PC		-
4	04	N	7755224609	P		RING BACK-UP PISTON 1.75" ROD					2.000	pc		-
5	05	N	7755224000	P		RING "O" PISTON 1.75" ROD					1.000	pc		-

*** End of Item ***

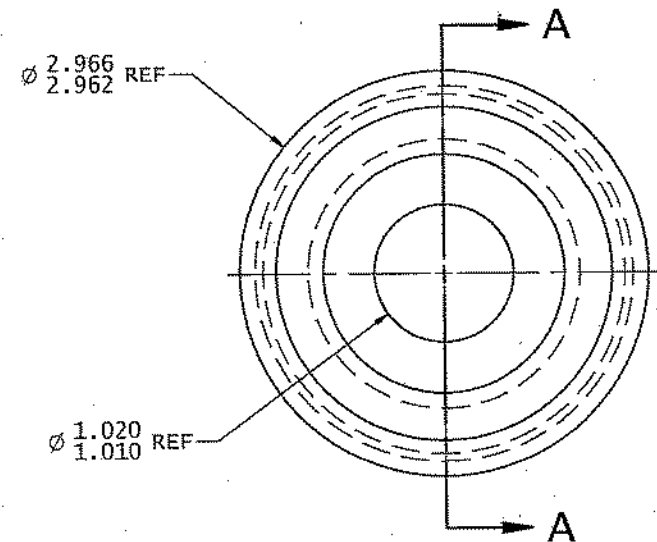
*** End of Report ***

PISTON ASSY (3.00 BORE CYLINDER)

DWG NO 3-698-000001 REV 02



SECTION A-A



02/11/04/STK
DATE 1 BY 2

PROPERTY AND CONFIDENTIAL INFORMATION
THIS DRAWING AND SUBJECT MATTER CONTAINED HEREIN ARE THE SOLE AND EXCLUSIVE PROPERTY OF JERR-DAN CORPORATION. THIS COPY IS LOANED WITH THE UNDERSTANDING THAT IT OR THE CONTENTS HEREIN CONTAINED WILL NOT BE REPRODUCED OR IN ANY MANNER DISCLOSED TO ANY OTHER PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF JERR-DAN CORPORATION. ACCEPTANCE OF THIS COPY SHALL BE CONSIDERED AS ACCEPTANCE OF THE FOREGOING CONDITIONS.

IF IN DOUBT ASK
DO NOT SCALE DRAWING.
REMOVE ALL BURRS AND SHARP CORNERS.
TOLERANCES UNLESS OTHERWISE SPECIFIED
2 PLACE DEC ±0.002
3 PLACE DEC ±0.013
ANGLE DIM ±0.5°
N/A TO MATERIAL THICKNESS

JERR-DAN CORP 1080 INNES ROAD GREENCASTLE, PA 17225		SHEET 1 OF 1	
PART L SEE B/M		WEIGHT E 3.24#	
TITLE PISTON ASSY (3.00 BORE CYLINDER)			
SCALE 3:2	DWG 2962	SIZE C	DWG NO 3-698-000001
DATE 02/02/00	DRAWN VLW	REV	02

***** Engineering Bill of Materials for ALTERNATE Route *****

** Report Excludes Shrinkage.

Effective as of 08/04/05

Item: 3553000011

HEAD ASSY 3.00 BORE x 1.75 ROD

From Item: 3553000011

To Item: 3553000011

Reference: B/2962-A

Last Changed Date: 08/11/00

Revision #0/0

BIN:

UOM: PC

Alternate Route #A215021

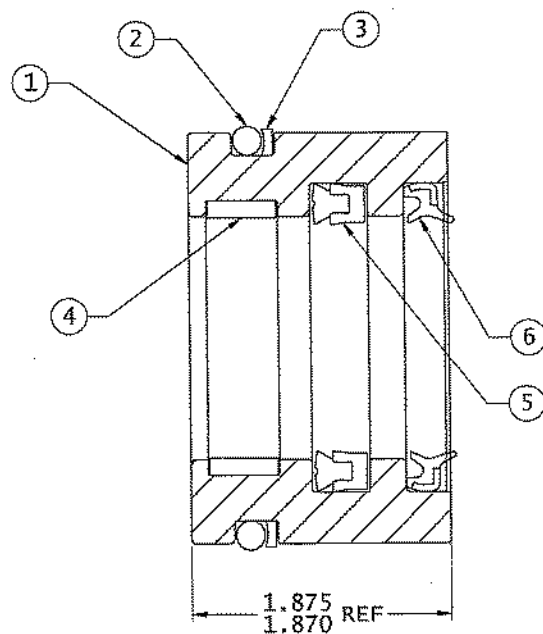
Quantity 1

Receive into Whse: HYKS

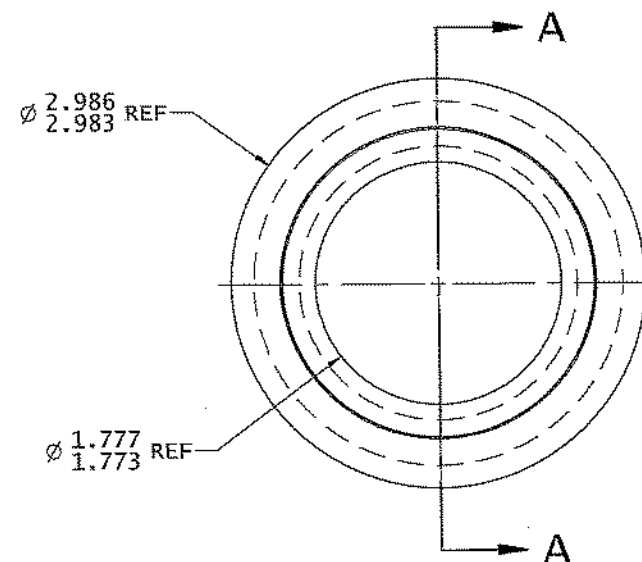
Seq	Ball	Dr	No.	-oon	Sz	Component	Type	Bin	Location	Description	Qty	Per	UOM	Reference	Effectivity
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1	01	B	4553000008	P	1010	HEAD 3.00 BORE X 1.75 ROD X 1.88 LG					1.000	pc			-
2	02	N	7755334000	P		RING "O" HEAD GLAND 3.00" BORE					1.000	pc			-
3	03	A	7755334609	P		RING BACK-UP HEAD GLAND 3.00" BORE					1.000	pc			-
4	04	A	7754000004	P	H01	RING WEAR HEAD 1.75" ROD					1.000	pc			-
5	05	A	7796000024	P		SEAL ROD 1.75"					1.000	pc			-
6	06	A	7796000008	P		SEAL WIPER 1.75" ROD					1.000	pc			-

*** End of Item ***

*** End of Report ***



SECTION A-A

32 [ALL 1960] REDRAWN IN SOLID EDGE (30/20)
REV/ZONE/SON

DESCRIPTION

02/18/04 STX
DATE BYPROPERTY AND CONFIDENTIALITY
NOTATIONTHIS DRAWING AND SUBJECT MATTER
CONTAINED HEREIN IS THE SOLE AND EXCLUSIVE
PROPERTY OF JERRI-DAN CORPORATION. THIS
COPY IS LOANED WITH THE UNDERSTANDING
THAT IT IS TO BE USED FOR THE PURPOSES
SPECIFIED AND NOT BE REPRODUCED OR
TRANSMITTED IN ANY FORM OR BY ANY
MEANS, ELECTRONIC OR MECHANICAL,
INCLUDING PHOTOCOPYING, RECORDING,
OR BY ANY INFORMATION STORAGE AND
RETRIEVAL SYSTEM, WITHOUT THE EXPRESS
WRITTEN PERMISSION OF JERRI-DAN CORPORATION.
THIS COPY SHALL BE RETURNED AS
ACCEPTANCE OF THE FOLLOWING CONDITION.IF IN DOUBT ASK
DO NOT SCALE DRAWING.
REMOVE ALL BURS AND
SHARP CORNERS.TOLERANCES UNLESS
OTHERWISE SPECIFIED
1. PLACE DEC 40.002
2. PLACE DEC 40.015
3. PLACE DEC 40.015
ANGLE DIM ±0.5°
N/A TO MATERIAL THICKNESSJERRI-DAN CORP
1080 MYKES ROAD GREENCASTLE, PA 17225

PART SEE B/N

SHEET 1 OF 1

WEIGHT E 1.746

TITLE HEAD ASSY (3.00 BORE CYLINDER)

SCALE 3:2

EPM 2962

DATE

DWG NO

REV

DATE 2/2/00

DRAWN VLN

C 3-553-000011 02

6/4/03 - 555070112-02.dft

Wrecker Boom Installation

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 07/12/05

Item: 3170000371

BOOM INST FLY SECTION

From Item: 3170000371

To Item: 3170000371

Last Changed Date:

Reference: D/3774B

Revision #0/0

BIN: WA03

UOM: PC

Quantity	1	Receive into Whse: MYPT
----------	---	-------------------------

Ball Dr	Bin						
-oon Sz Component Type Location	Description	QtyPer	UOM	Reference	Effectivity		
=====	=====	=====	=====	=====	=====		
01 D 3170000345 M WA02	BOOM WELD, FLY SECTION	1.000	PC		-		
02 C 3320000149 M WA02	CYLINDER ASSY 3.00/1.75 X 68.70-126.97	1.000	PC		-		
03 A 4679000251 M WA02	PAD 0.38 x 4.38 x 4.38	1.000	PC		-		
04 A 4679000237 M WA02	PAD X 0.38 x 4.00 x 5.00	1.000	PC		-		
05 A 4706000067 M 102505 WA00	PLATE 0.19 x 2.00 x 4.75	1.000	PC		-		
06 A 4679000238 M WA02	PAD 0.50 x 1.94 x 4.50	2.000	PC		-		
07 A 4691000519 M WA02	PIN 1.25 DIA X 5.00	1.000	PC		-		
08 A 7754000006 P 000107 b62 c18	RING RETAINING - 1.25" DIA SHAFT	2.000	pc		-		
09 N 7118140618 P	CAPSCREW .25"-20NC x .75 BH-ZINC	2.000	PC		-		
10 N 7950140161 P 000104 A96	FLATWASHER .25" NOM WIDE - PLATED	2.000	pc		-		

*** End of Item ***

*** End of Report ***

DWG NO	REV
3-170-000371	00

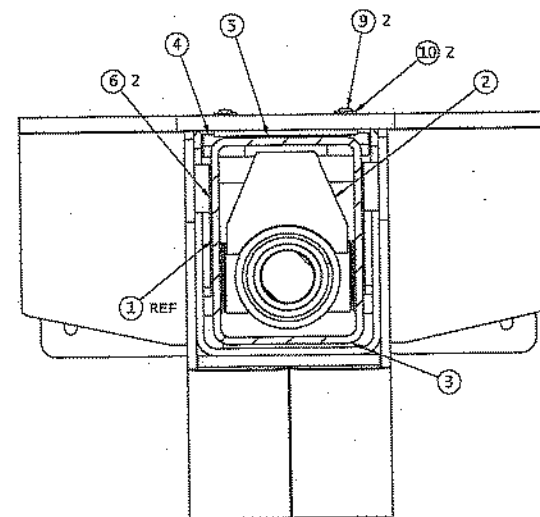


Diagram of the front panel of the device. Callout 2 points to the 'REF' label. Callout 7 points to the horizontal bar with diagonal hatching. Callout 8 points to the small rectangular component on the left side of the bar.

[illegible]

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 07/13/05

Item: 3320000149

CYLINDER ASSY 3.00/1.75 X 68.70-126.97

From Item: 3320000149

To Item: 3320000149

Reference: C/3774B

Last Changed Date:

Revision #0/0

BIN: WA02

UOM: PC

Quantity

1

Receive into Whse: MYPT

Ball Dr

Bin

-oon Sz Component Type Location

Description

QtyPer UOM

Reference

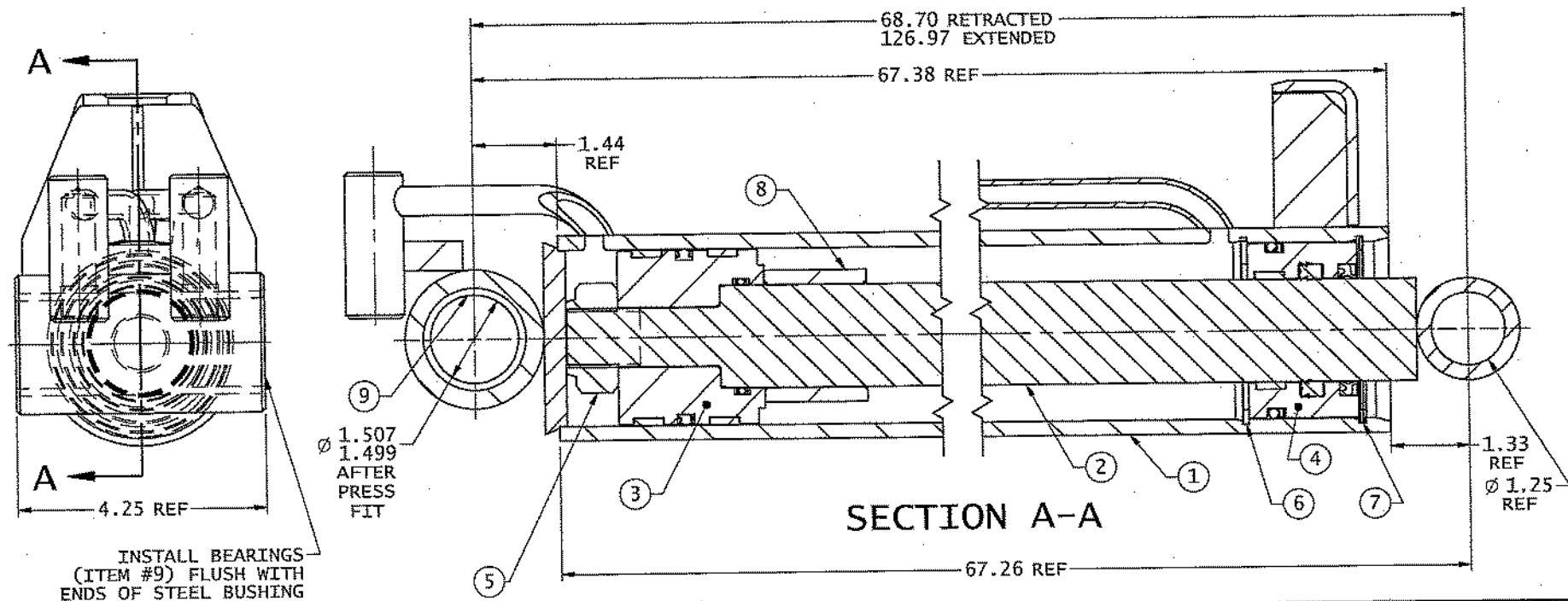
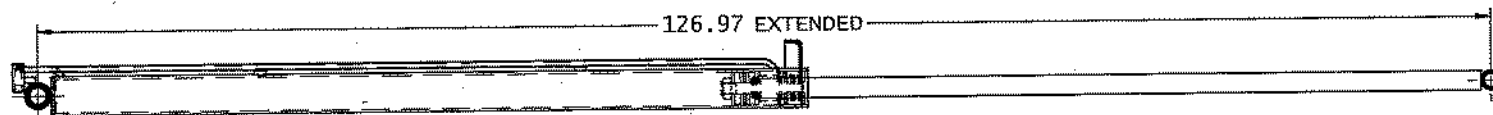
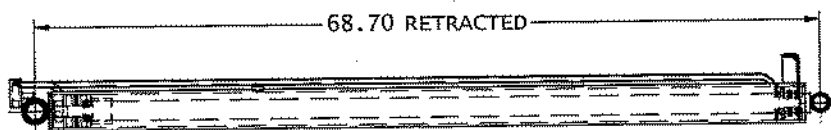
Effectivity

====	==	=====	=====	=====	=====	=====	=====
01	D	3071000134	M	CC05	BARREL WELD "3149"	1.000	PC
02	C	3763000040	M	CC05	ROD WELD 1.75 DIA "307"	1.000	PC
03	B	3698000001	P		PISTON ASSY 3.00 BORE x 1.75 ROD	1.000	PC
04	B	3553000011	P		HEAD ASSY 3.00 BORE x 1.75 ROD	1.000	PC
05	A	7661000034	P	000105 d07	NUT 1.00"-14NF NYLON INSERT HEX	1.000	PC
06	A	7754000002	P	b62	RING RETAINING 3" #1300-300	1.000	pc
07	N	7754000026	P	b65	RING RETAINING SMALLY WHM 300	1.000	pc
08	A	4912000358	M	CC05	TUBE 2.25 OD x 1.75 ID x 1.75 LG	1.000	PC
09	A	7082000017	P	f15	BEARING 1.75 OD x 1.50 ID x 1.25 POLYGON	2.000	PC

*** End of Item ***

*** End of Report ***

CYLINDER ASSY 3.00/1.75 X 68.70-126.97

DWG NO
3-320-000149REV
00

INSTALL BEARINGS
(ITEM #9) FLUSH WITH
ENDS OF STEEL BUSHING

INSTALL NUT WITH
LOCTITE 262
TORQUE NUT TO
280 TO 320 FT-LBS

NOTE:
PLUG PORTS FOR STORAGE

JERR-DAN CORP
2080 MYERS ROAD GREENCASTLE, PA 15225

PROPERTY AND CONFIDENTIAL INFORMATION
THIS DRAWING AND SUBJECT MATTER CONTAINED HEREIN ARE THE SOLE AND EXCLUSIVE PROPERTY OF JERR-DAN CORPORATION. THIS COPY IS LOANED WITH THE UNDERSTANDING THAT IT OR THE SUBJECT MATTER CONTAINED HEREIN WILL NOT BE DISCLOSED TO ANY OTHER PARTY WITHOUT THE WRITTEN PERMISSION OF JERR-DAN CORPORATION. ACCEPTANCE OF THIS COPY SHALL BE CONSIDERED AS ACCEPTANCE OF THE FOREGOING CONDITIONS.

IF YOU DO NOT ASK, DO NOT SCALE DRAWING. REMOVE ALL BURRS AND SHARP CORNERS.

TOLERANCES UNLESS OTHERWISE SPECIFIED:
2 PLACE DEC 20.062
3 PLACE DEC 20.003
ANGLE DIM ±0.5°
H/A TO MATERIAL THICKNESS

DATE: 09/27/04
SCALE: 4:1
FIN: 3774
DATE: 09/27/04
DRAWN: STK
C 3-320-000149 00

07/22/05 - 233000149.dwg

***** Engineering Bill of Materials for ALTERNATE Route *****

** Report Excludes Shrinkage.

Effective as of 07/13/05

Item: 3698000001

PISTON ASSY 3.00 BORE x 1.75 ROD

Reference: B/2962-A

From Item: 3698000001

To Item: 3698000001

Last Changed Date: 08/11/00

Alternate Route #AZ15015		Revision #0/0	
Quantity	1	BIN:	UOM: PC
Receive into Whse: HYKS			

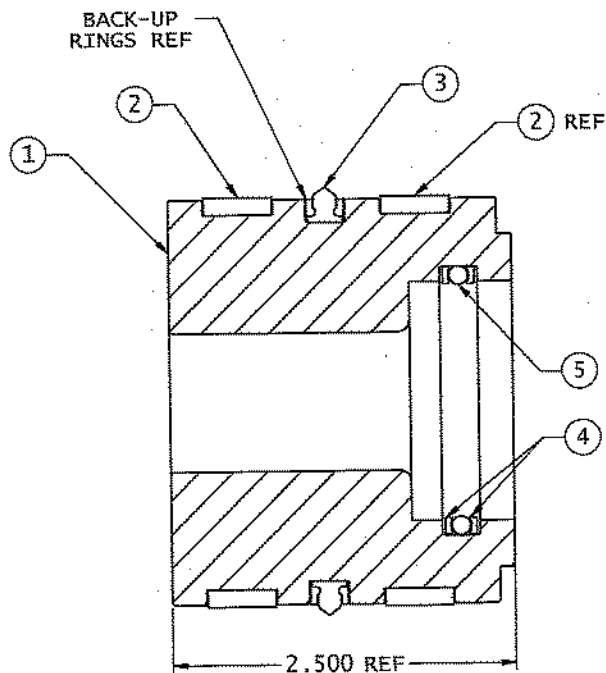
Seq	Ball Dr	Bin			Description	QtyPer	UOM	Reference	Effectivity
No.	-oon	Sz	Component	Type	Location	-----	---	-----	-----
1	01	B	4698000007	P	1010	PISTON 3.00 BORE X 1.75 ROD X 2.50 LG	1.000	pc	-
2	02	A	7754000003	P		RING WEAR 3.00 x 0.50 x 0.120/0.125 THK	2.000	pc	-
3	03	A	7796000063	P		SEAL PISTON LOCKING T 3.00" BORE	1.000	PC	-
4	04	N	7755224609	P		RING BACK-UP PISTON 1.75" ROD	2.000	pc	-
5	05	N	7755224000	P		RING "O" PISTON 1.75" ROD	1.000	pc	-

*** End of Item ***

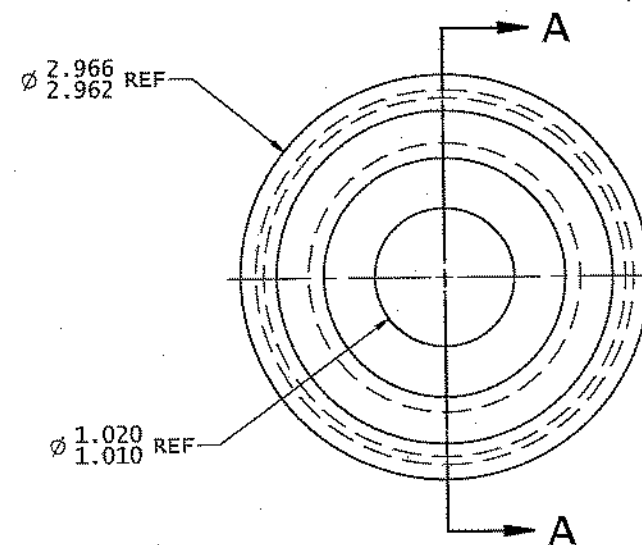
*** End of Report ***

PISTON ASSY (3.00 BORE CYLINDER)

DWG NO 3-698-000001 REV 02



SECTION A-A



JERR-DAN CORP
1080 MYKES ROAD GREENCASTLE, PA 12225

IF IN DOUBT ASK. DO NOT SCALE DRAWING. REMOVE ALL BORDERS AND SHARP CORNERS.		TOLERANCES UNLESS OTHERWISE SPECIFIED 2 PLACE DEC ±0.002 3 PLACE DEC ±0.015 ANGLE DDA ±0.5° N/A TO MATERIAL THICKNESS		TITLE PISTON ASSY (3.00 BORE CYLINDER)	
THIS DRAWING AND SUBJECT MATTER CONTAINED ARE THE SOLE AND EXCLUSIVE PROPERTY OF JERR-DAN CORPORATION. THIS COPY IS LOANED WITH THE UNDERSTANDING THAT IT OR THE SUBJECT MATTER CONTAINED WILL NOT BE DISCLOSED TO ANY OTHER PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF JERR-DAN CORPORATION. ACCEPTANCE OF THIS COPY SHALL BE CONSIDERED AS ACCEPTANCE OF THE FOREGOING CONDITION.		DATE 02/02/80 DRAWN VJW		SHEET 1 OF 1 WEIGHT 3.24#	
02/11/85 - 309400001-01.01		DATE 02/02/80 DRAWN VJW		REV 02	

02/11/85 REDRAWN IN SOLID EDGE (30/20) 02/38/04 SYK
REVZONER BKH DESCRIPTION DATE BY

***** Engineering Bill of Materials for ALTERNATE Route *****

** Report Excludes Shrinkage.

Effective as of 07/13/05

Item: 3553000011

HEAD ASSY 3.00 BORE x 1.75 ROD

From Item: 3553000011

To Item: 3553000011

Last Changed Date: 08/11/00

Reference: B/2962-A

Revision #0/0

BIN:

UOM: PC

Alternate Route #A215021

Quantity 1

Receive into Whse: HYKS

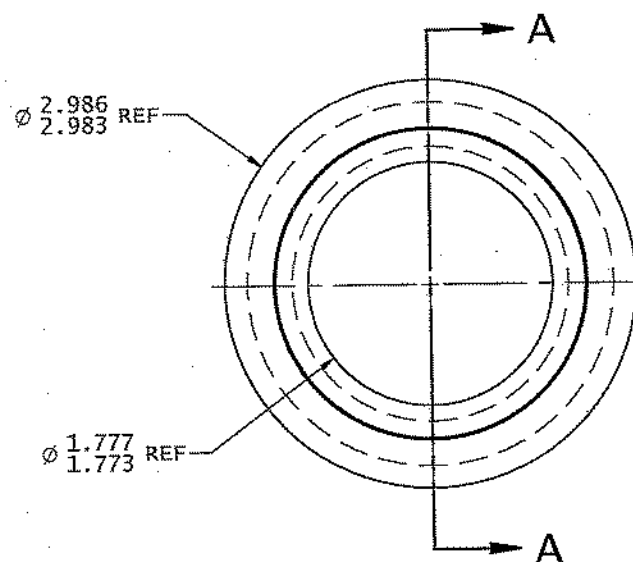
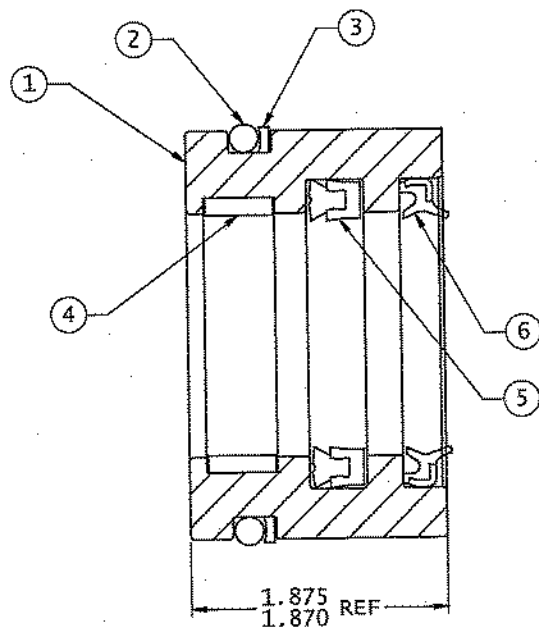
Seq Ball Dr	Bin	Description	QtyPer	UOM	Reference	Effectivity
No. -oon Sz Component Type Location			=====	==	=====	=====
1 01	B 4553000008	P 1010	HEAD 3.00 BORE X 1.75 ROD X 1.88 LG	1.000	pc	-
2 02	N 7755334000	P	RING "O" HEAD GLAND 3.00" BORE	1.000	pc	-
3 03	A 7755334609	P	RING BACK-UP HEAD GLAND 3.00" BORE	1.000	pc	-
4 04	A 7754000004	P R01	RING WEAR HEAD 1.75" ROD	1.000	pc	-
5 05	A 7796000024	P	SEAL ROD 1.75"	1.000	pc	-
6 06	A 7796000008	P	SEAL WIPER 1.75" ROD	1.000	pc	-

*** End of Item ***

*** End of Report ***

HEAD ASSY (3.00 BORE CYLINDER)

DWG NO 3-553-000011 REV 02



SECTION A-A

JERR-DAN CORP
1080 MYERS ROAD GREENCASTLE, PA 17225

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE TO BE MAINTAINED TO THE CLOSEST TOLERANCE POSSIBLE. THIS DRAWING IS THE PROPERTY OF JERR-DAN CORPORATION. IT IS LOANED TO THE PURCHASER FOR THE SPECIFIC PURPOSE OF MANUFACTURING THE PARTS SHOWN HEREON. IT IS NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF JERR-DAN CORPORATION. ACCEPTANCE OF THIS COPY SHALL BE CONSIDERED AS ACCEPTANCE OF THE DIMENSIONS SHOWN.

IF IN DOUBT, ASK. DO NOT SCALE DRAWING. REMOVE ALL BURRS AND SHARP CORNERS.

TOLERANCES UNLESS OTHERWISE SPECIFIED:
2 PLACE DEC AD DEC
3 PLACE DEC AD DEC
ANGLE DIM $\pm 0.1^\circ$
H/A TO MATERIAL THICKNESS

MAT'L SEE B/M
SHEET 1 OF 1
WEIGHT E 1.74#

TITLE HEAD ASSY (3.00 BORE CYLINDER)
SCALE 3:2
EN 2962
DATE 02/02/00
DRAW VLW
DWG NO 3-553-000011 REV 02

02/18/04 STK
REV 02/02/00
DATE 1/87

Supply-Pressure- Return

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/01/05

Item: 2509530042

HOSE INSTL SPR 60 CA FORD MPL-40

From Item: 2509530042

To Item: 2509530042

Reference: X/0818/3774B Last Changed Date:

Revision #0/0

BIN: WA03

UOM: PC

Quantity	1	Receive into Whse: MYPT		BIN: WA03		UOM: PC	
Ball Dr	Bin						
-oon Sz Component Type Location	Description	QtyPer	UOM	Reference	Effectivity		
====	=====	=====	=====	=====	=====		
01 N 4567130155 M	HOSE ASSY .50 X 155 LG ST-ST FSW JIC	1.000	PC		-		
02 N 4567180121 M WA03	HOSE 1.0 x 121 #16 ST(FSW) - #16 ST(FSW)	1.000	PC		-		
03 A 7443000319 P b30	FITTING 90 DEG 1.00 NPTF x .75 HOSE BARB	2.000	PC		-		
04 A 7274000047 P	CLAMP .75" WIDE T-BOLT HOSE	3.000	pc		-		
05 X 4570000227 M WA03	HOSE RETURN .75 x 27	1.000	PC		-		
06 A 7935000259 P	VALVE BRASS BALL 1" NPT (M-F) 90 SHUT	1.000	PC		-		
07 A 7430000003 P g05 m08 SR-Ann	FILTER ASSY OIL W/ELEMENT #AA0380	1.000	pc		-		
08 N 7114140818 P 000108 A125 x0	CAPSCREW 0.25"-20 X 1.00" SS BT HD	1.000	PC		-		
09 N 7950140003 P	LOCKWASHER .25" NOM REG S/S	2.000	PC		-		
10 N 7950140143 P 000102 x01	FLATWASHER 0.25 NOM NARROW SS	2.000	PC		-		
11 A 7470000002 P 102206 g03 h09	GAUGE #15MST-01B60 OIL FILTER	1.000	pc		-		
12 N 7443000066 P	FITTING 45EL.13NPT MALE X .13NPT FEM	1.000	PC		-		
13 X 4570000228 M WA03	HOSE RETURN .75 x 46	1.000	PC	B0625	-		
14 B 7274000076 P b19 d08	CLAMP CAST FRAME	2.000	PC		-		
15 N 7660152601 P 022603 030602	LOCKNUT .31-18NC GR5 HEX NYLOC	14.000	pc		-		
16 N 7785152420 P x01	SCREW SET 5/16 - 18 x 1.50 SQR HD CUP PT	2.000	PC		-		
17 N 7115151050 P 000105 x01	CAPSCREW .31"-18NC X 1.25" HEX HEAD	12.000	pc		-		
18 N 7950150161 P 030602 080304	FLATWASHER .31" NOM WIDE - PLATED	22.000	PC		-		
19 A 7274000040 P 100801 x01	CLAMP .81" DIA LOOP #COV1413Z1	12.000	PC		-		
20 A 7274000042 P f12 g05 x01	CLAMP 1.75" DIA LOOP #COV-2913	8.000	PC		-		
21 N 7445162020 P	ELBOW #16JIC X 1.25"NPT (M) 90 DEG	1.000	PC		-		
22 N 7443000374 P	FITTING 1" NPT (M) 0.75 BEADED BARB (M)	1.000	PC		-		
23 N 8565000007 P A-FLOOR FLOOR	HOSE 2-1/2" SINGLE JACKET MILL	1.000	ft		-		
24 8632000002 R e12	TRIM .25"EDGE-BLACK VINYL #1350-B-2X1/4A	.250	FT		-		

*** End of Item ***

*** End of Report ***

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/01/05

Item: 2509530060

HOSE INST SPR 84 CA FORD MPL-40

From Item: 2509530060

To Item: 2509530060

Reference:X/0818/3774B

Last Changed Date:04/01/05

Revision #0/0

BIN: WA03

UOM: PC

Quantity

1

Receive into Whse: MYPT

Ball Dr

Bin

-oon Sz Component Type Location

Description

QtyPer UOM

Reference

Effectivity

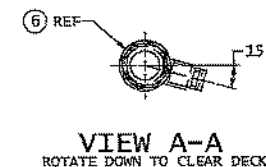
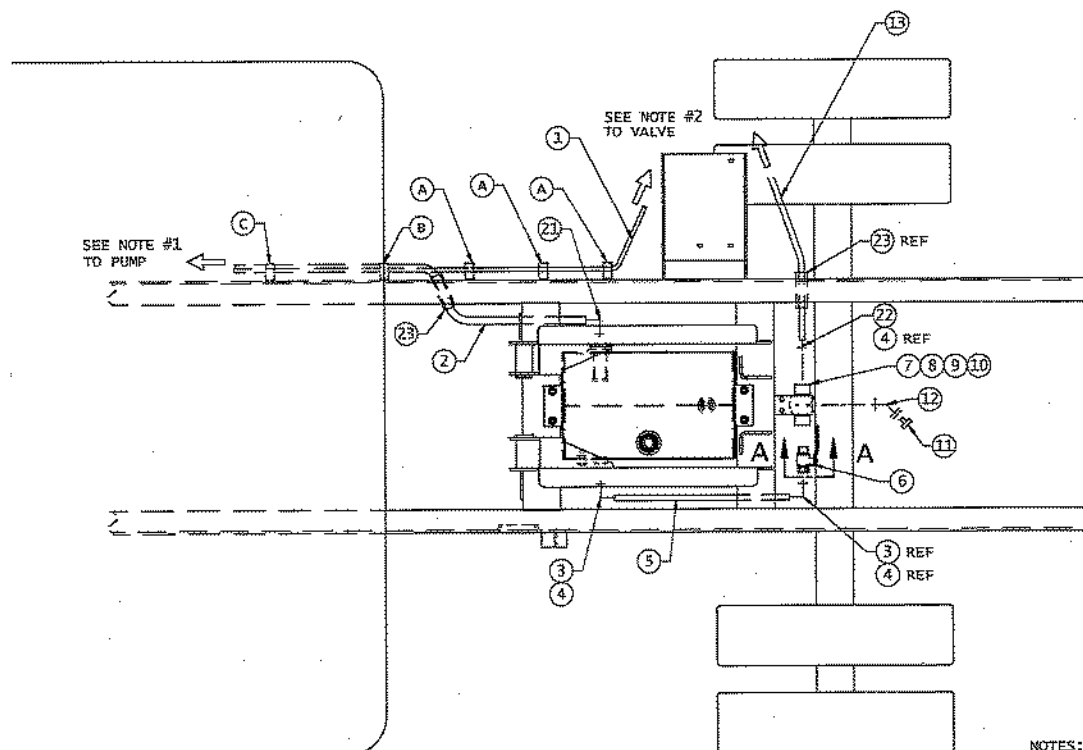
====	==	=====	=====	=====	=====	=====	=====
01	N	4567130179	M WA03	HOSE .50 x 179 #8 ST (FSW) - #8 ST (FSW)	1.000	PC	-
02	N	4567180145	M WA03	HOSE 1.0 x 145 #16 ST (FSW) - #16 ST (FSW)	1.000	PC	-
03	A	7443000319	P b30	FITTING 90 DEG 1.00 NPTF x .75 HOSE BARB	2.000	PC	-
04	A	7274000047	P	CLAMP .75" WIDE T-BOLT HOSE	3.000	PC	-
05	X	4570000227	M WA03	HOSE RETURN .75 x 27	1.000	PC	-
06	A	7935000259	P	VALVE BRASS BALL 1" NPT (M-F) 90 SHUT	1.000	PC	-
07	A	7430000003	P g05 m08 SR-Ann	FILTER ASSY OIL W/ELEMENT #AA0380	1.000	pc	-
08	N	7114140818	P 000108 A125 x0	CAPSCREW 0.25"-20 X 1.00" SS BT HD	1.000	PC	-
09	N	7950140003	P	LOCKWASHER .25" NOM REG S/S	2.000	PC	-
10	N	7950140143	P 000102 x01	FLATWASHER 0.25 NOM NARROW SS	2.000	PC	-
11	A	7470000002	P 102206 g03 h09	GAUGE #15MST-01B60 OIL FILTER	1.000	pc	-
12	N	7443000066	P	FITTING 45EL.13NPT MALE X .13NPT FEM	1.000	PC	-
13	X	4570000228	M WA03	HOSE RETURN .75 x 46	1.000	PC	B0625
14	B	7274000076	P b19 d08	CLAMP CAST FRAME	2.000	PC	-
15	N	7660152601	P 022603 030602	LOCKNUT .31-18NC GR5 HEX NYLOC	14.000	pc	-
16	N	7785152420	P x01	SCREW SET 5/16 - 18 x 1.50 SQR HD CUP PT	2.000	PC	-
17	N	7115151050	P 000105 x01	CAPSCREW .31"-18NC X 1.25" HEX HEAD	12.000	pc	-
18	N	7950150161	P 030602 080304	FLATWASHER .31" NOM WIDE - PLATED	22.000	PC	-
19	A	7274000040	P 100801 x01	CLAMP .81" DIA LOOP #COV1413Z1	12.000	PC	-
20	A	7274000042	P f12 g05 x01	CLAMP 1.75" DIA LOOP #COV-2913	8.000	PC	-
21	N	7445162020	P	ELBOW #16JIC X 1.25"NPT (M) 90 DEG	1.000	PC	-
22	N	7443000374	P	FITTING 1" NPT (M) 0.75 BEADED BARB (M)	1.000	PC	-
23	N	8565000007	P A-FLOOR FLOOR	HOSE 2-1/2" SINGLE JACKET MILL	1.000	ft	-
24		8632000002	R e12	TRIM .25"EDGE-BLACK VINYL #1350-B-2X1/4A	.250	FT	-

*** End of Item ***

*** End of Report ***

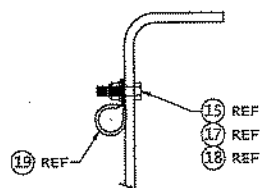
HOSE INSTALL SPR MPL40

DWG NO. 5-264-000818 REV 00

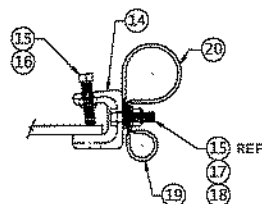


NOTES:

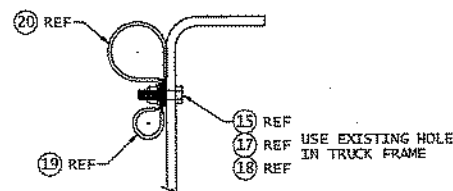
1. SEE PUMP FITTINGS B/M FOR FITTING CALL OUT.
2. SEE HYD. SCHEMATIC FOR FITTING CALL OUT.
3. SPACING FOR CLAMPS SHOULD BE LESS THAN 26" APART.
4. SEE B/M FOR ITEMS USED & QTY.
5. DRAWING SHOWS SUGGESTED STANDARD CLAMP CONFIGURATION FOR FORD CHASSIS. CONFIGURATION MAY VARY DEPENDING ON CHASSIS.
6. INSTALL ITEM 23 AROUND HOSES WHERE THEY PASS BETWEEN SUBFRAME AND CHASSIS FRAME.
7. ITEM 24 NOT SHOWN FOR CLARITY, INSTALL ITEM 24 ON EDGES OF SUBFRAME SPACER TUBE WHERE RETURN HOSE PASSES BETWEEN SUBFRAME AND CHASSIS FRAME.



CLAMP POINT "A"
TYP-4 PLACES REF



CLAMP POINT "B"
TYP-2 PLACES REF



CLAMP POINT "C"
TYP-6 PLACES REF

2-509-530042	60CA F-450/F-550 DIESEL STD CAB
2-509-500093	84CA F-450/F-550 DIESEL STD CAB

JEHRADAN

1 OF 1

NO. 1 SEE 8/P	DATE 5/13/05	BY 5-264-000818
HOSE INSTALL SPR MPL40	DATE 5/13/05	BY 5-264-000818

Hydraulic Lines & Fittings Installation

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 07/14/05

Item: 3509530093

HLF MPL-40 DUAL WINCH

From Item: 3509530093

To Item: 3509530093

Last Changed Date: 07/01/05

Reference: D/3774B

Revision #A/U

BIN: WA03

UOM: PC

Quantity

1

Receive into Whse: MYPT

Ball Dr	Bin	Description	QtyPer	UOM	Reference	Effectivity
-oon Sz Component Type Location			=====	=====	=====	=====
01 N 7445080843	P 040303 080305	ADAPTER #8JIC(M) X #8"O"(M) STR	4.000	PC		-
02 7445060843	P 040303 b07 b43	ADAPTER #6JIC(M) x #8"O"(M) STR	6.000	pc		-
03 A 7443000231	P b05	FITTING 90 DEGREE ELBOW	2.000	PC		-
04 N 7445081043	P 020902 b47 j02	ADAPTER #8JIC(M) X #10"O"(M) STR	1.000	PC		-
05 A 7443000168	P b27	ADAPTER #12 "O" X .75ID BEADED 90DEG	1.000	pc		-
06 7445081045	P 022603 b08 b48	ELBOW #8JIC(M) X #10"O"(M) 90 DEG	4.000	pc		-
07 3 7443000372	P	FITTING T- RUN 3M #6 JIC	2.000	PC		-
08 N 7445060645	P 022505 b41 j02	ELBOW #6JIC(M)-#6"O"(M) 90 DEG	8.000	PC		-
09 N 7445060647	P b42	BRANCH #6JIC(2M)-"O" (M) TEE	4.000	PC		-
10 N 7445060646	P b42	ELBOW 45 DEG #6JIC(M)-#6 "O" RING(M)	2.000	pc		-
11 N 7445060643	P 021305 b41	ADAPTER STRAIGHT .38 O-RING TO .38	3.000	PC		-
12 N 7443000105	P b19	REDUCER #6 JIC(F) - #4 JIC(M)	1.000	pc		-
13 N 7443000106	P b01 b19	REDUCER NUT 841-FS-06 IMP. EASTMAN	1.000	pc		-
14 * 7445040443	P 021305 b37	ADAPTER STR #4JIC-#4 "O" RING (M)	2.000	pc		-
15 N 7445040643	P 011615 b39	ADAPTER, STR #4 JIC-#6 "O" RING (M)	1.000	PC		-
16 B 7912000028	P j43	TUBE ASSY 3/8"OD HYD LINE - 4.66" LG	2.000	pc		-
17 B 7912000204	P k-floor	TUBE ASSY 0.38 OD x 0.049W x 8.85 rev01	2.000	PC		-
18 B 7912000078	P 100903 j02 j46	TUBE ASSY 0.38 OD FLARED HYD X 2.75	1.000	PC		-
19 C 7912000205	P k-floor	TUBE ASSY 0.38 x 0.049W x 10.88	1.000	PC		-
20 C 7912000200	P k-floor	TUBE ASSY 0.38 OD x 0.049W x 106.59 LH	1.000	PC		-
21 C 7912000201	P k-floor	TUBE ASSY 0.38 OD x 0.049W x 105.81RH	1.000	PC		-
22 C 7912000203	P k-floor	TUBE ASSY 0.38 OD x 0.049W x 69.51	2.000	PC		-
23 A 7935000148	P 100806 C-END f	VALVE SUN COUNTER BALANCE 4000 PSI	4.000	PC		-
24 N 7115151650	P a29 x01	CAPSCREW .31"-18NC X 2.00" HEX HEAD	8.000	PC		-
25 N 7950150161	P 030602 080304	FLATWASHER .31" NOM WIDE - PLATED	8.000	PC		-
26 N 7660152601	P 022603 030602	LOCKNUT .31-18NC GR5 HEX NYLOC	8.000	pc		-
27 N 4567122026	M WA00 WA00	HOSE .38 X 26 #6 ST(FSW) - #6 90(FSW)	1.000	PC		-
28 N 4567122024	M	HOSE ASSY .38 X 24 ST-90 FSW JIC <OBS>	1.000	PC		-
29 N 4567122023	M	HOSE ASSY .38 x 23.00 ST-90 FSW JIC	2.000	PC		-
30 N 4567120016	M	HOSE .38 X 16 #6 ST(FSW)	2.000	PC		-
31 N 4567123056	M MDF1 MDF1	HOSE ASSY .38 x 56.00 ST-L90 FSW JIC	2.000	PC		-

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 07/14/05

Item: 3509530093

HLF MPL-40 DUAL WINCH

From Item: 3509530093

To Item: 3509530093

Last Changed Date: 07/01/05

Reference: D/3774B

Revision #A/U

BIN: WA03

UOM: PC

Quantity

1

Receive into Whse: MYPT

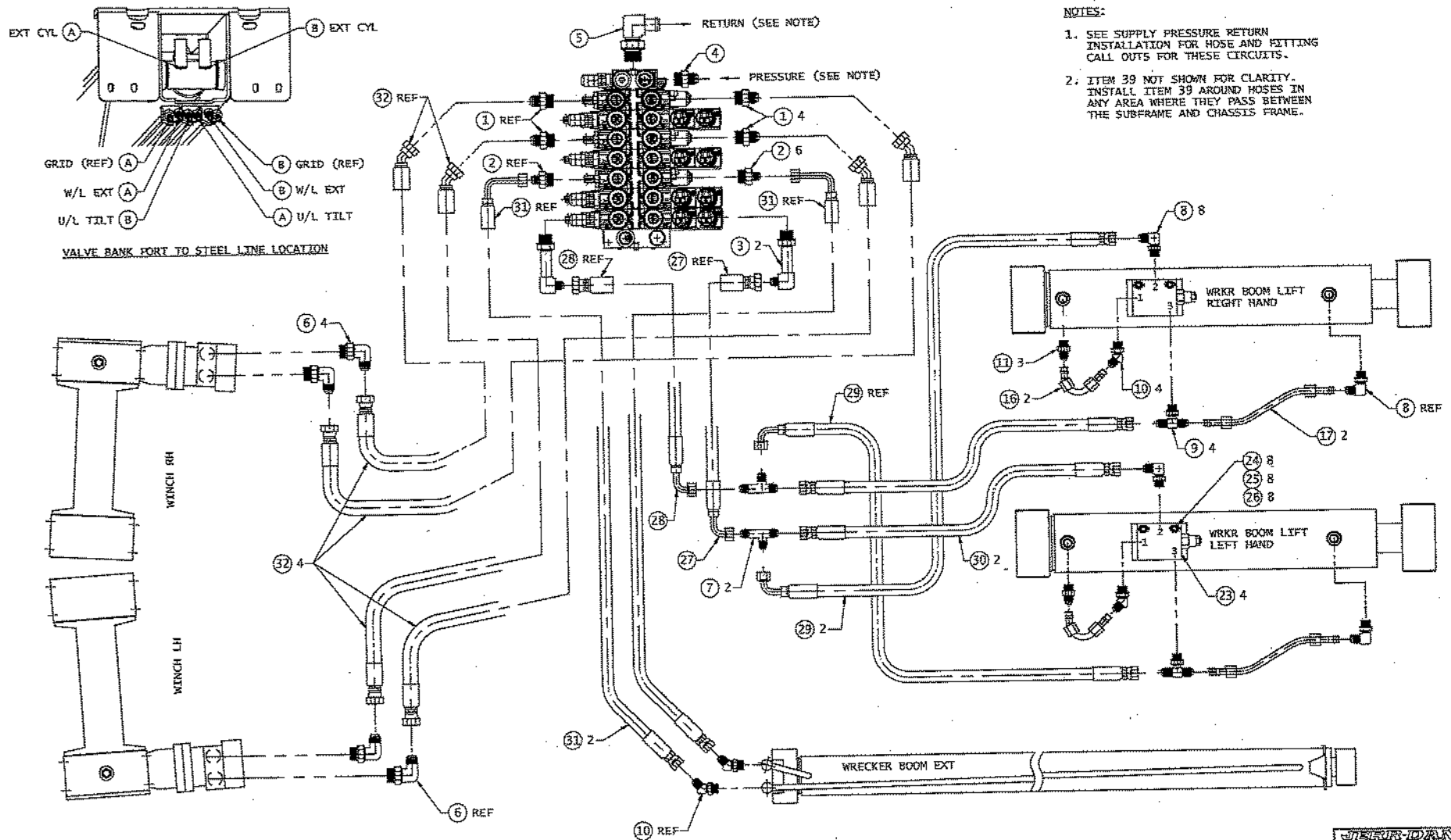
Ball Dr	Bin	Description	QtyPer	UOM	Reference	Effectivity
-oon Sz Component Type Location			=====	=====	=====	=====
32	N 4567131080	M WA02	HOSE 0.50 x 80 #8 ST(FSW) - #8 45 (FSW)	4.000	PC	-
33	N 4569123061	M CJAS	HOSE ASSY.38x61.00 ST(M)-L90 (FSW)JIC	2.000	PC	-
34	N 4569120017	M WA02	HOSE .38 x 17 #6 ST(FSW) - #6 ST(M)	1.000	PC	-
35	N 4569120018	M WA02	HOSE ASSY 0.38x18.00 STR(M)-STR(FSW)	1.000	PC	-
36	N 4569123054	M WA02	HOSE .38 x 54 #6 ST(M) - #6 L90 (FSW)	2.000	PC	-
37	N 4567110024	M WA00 WA00	HOSE ASSY .25 x 24.00 STR-STR FSWJIC	1.000	PC	-
38	N 4567110025	M WA00 WA00	HOSE ASSY .25 x 25.00 STR-STR FSWJIC	1.000	PC	-
39	N 8565000007	P A-FLOOR FLOOR	HOSE 2-1/2" SINGLE JACKET MILL	2.000	ft	-

*** End of Item ***

*** End of Report ***

HYDRAULIC SCHEMATIC MPL-40

3-509-530093 00



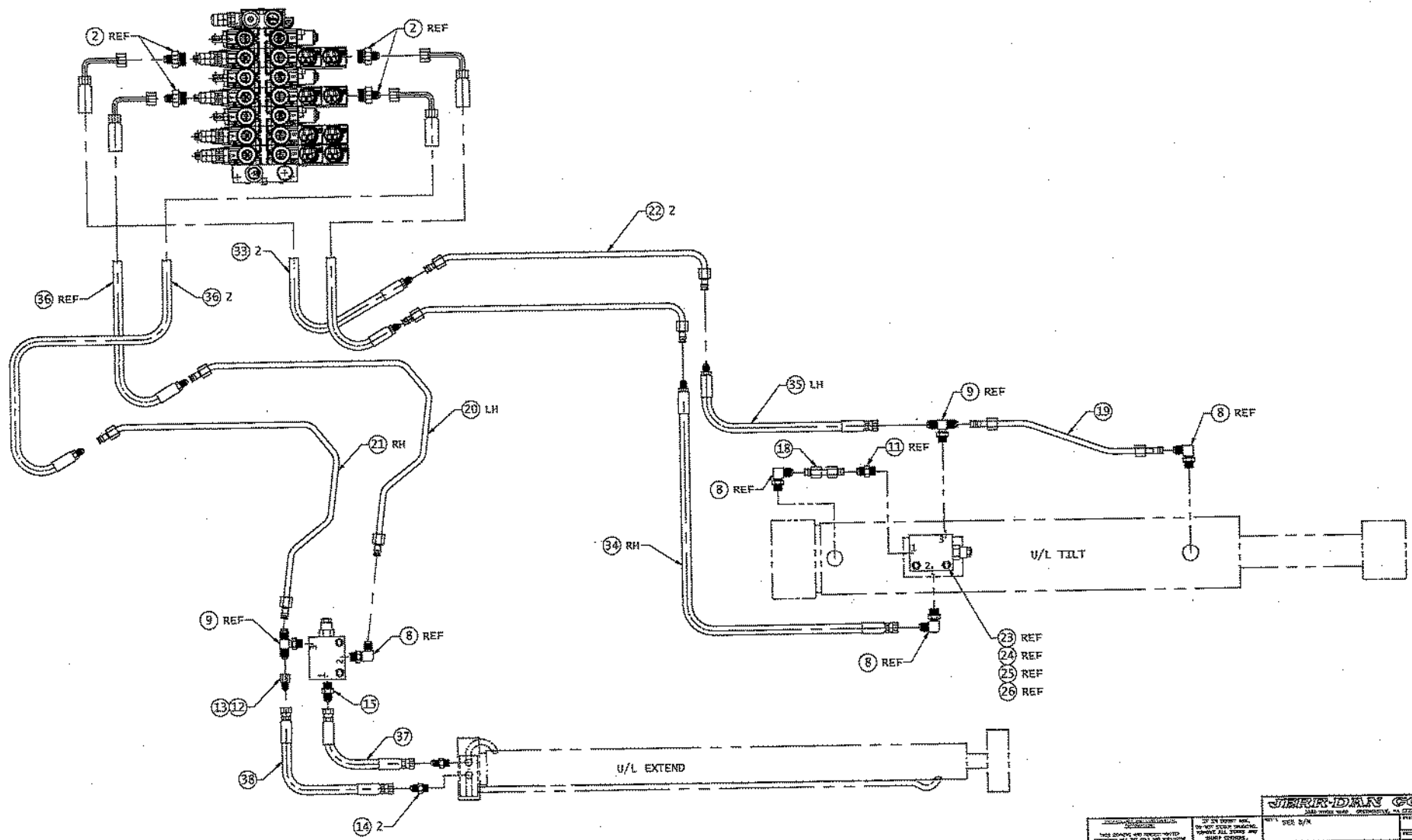
NOTES:

1. SEE SUPPLY PRESSURE RETURN INSTALLATION FOR HOSE AND FITTING CALL OUTS FOR THESE CIRCUITS.
2. ITEM 39 NOT SHOWN FOR CLARITY. INSTALL ITEM 39 AROUND HOSES IN ANY AREA WHERE THEY PASS BETWEEN THE SUBFRAME AND CHASSIS FRAME.

HYDRAULIC SCHEMATIC MPL-40 DATE: 11/04/04 DRAWN: [Signature] CHECKED: [Signature] APPROVED: [Signature]		PART: SEE B/H 1 OF 2 3-509-530093 00
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HYDRAULIC SCHEMATIC MPL-40

DWG NO 3-509-530093 REV 00



SIERRA-DAN CORP. 2000 W. 10th St. • Reno, NV 89502	
DATE: 11/14/84 DRAWN BY: [blank] CHECKED BY: [blank]	REV: 00 SHEET: 2 OF 2 PART: 3-509-530093
TITLE: HYDRAULIC SCHEMATIC MPL-40 SCALE: 1/2" = 1'-0" DATE: 11/14/84 DRAWN BY: [blank] CHECKED BY: [blank]	

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 07/15/05

Item: 3509530107

HLF MPL-40 SINGLE WINCH

From Item: 3509530107

To Item: 3509530107

Last Changed Date: 07/01/05

Reference: D/3774B

Revision #A/0

BIN: WA02

UOM: PC

Quantity	1	Receive into Whse: MYPT					
Ball Dr	Bin						
-oon Sz Component Type Location	Description	QtyPer	UOM	Reference	Effectivity		
====	=====	=====	=====	=====	=====		
01 N 7445080843	P 040303 080305	ADAPTER #8JIC(M) X #8"O" (M) STR	2.000	PC	-		
02 7445060843	P 040303 b07 b43	ADAPTER #6JIC(M) x #8"O" (M) STR	6.000	pc	-		
03 A 7443000231	P b05	FITTING 90 DEGREE ELBOW	2.000	PC	-		
04 N 7445081043	P 020902 b47 j02	ADAPTER #8JIC(M) X #10"O" (M) STR	1.000	PC	-		
05 A 7443000168	P b27	ADAPTER #12 "O" X .75ID BEADED 90DEG	1.000	pc	-		
06 7445081045	P 022603 b08 b48	ELBOW #8JIC(M) X #10"O" (M) 90 DEG	2.000	pc	-		
07 3 7443000372	P	FITTING T- RUN 3M #6 JIC	2.000	PC	-		
08 N 7445060645	P 022505 b41 j02	ELBOW #6JIC(M) -#6"O" (M) 90 DEG	8.000	PC	-		
09 N 7445060647	P b42	BRANCH #6JIC(2M) -"O" (M) TEE	4.000	PC	-		
10 N 7445060646	P b42	ELBOW 45 DEG #6JIC(M) -#6 "O" RING(M)	2.000	pc	-		
11 N 7445060643	P 021305 b41	ADAPTER STRAIGHT .38 O-RING TO .38	3.000	PC	-		
12 N 7443000105	P b19	REDUCER #6 JIC(F) - #4 JIC(M)	1.000	pc	-		
13 N 7443000106	P b01 b19	REDUCER NUT 841-FS-06 IMP: EASTMAN	1.000	pc	-		
14 * 7445040443	P 021305 b37	ADAPTER STR #4JIC-#4 "O" RING (M)	2.000	pc	-		
15 N 7445040643	P 011615 b39	ADAPTER, STR #4 JIC-#6 "O" RING (M)	1.000	PC	-		
16 B 7912000028	P j43	TUBE ASSY 3/8"OD HYD LINE - 4.66" LG	2.000	pc	-		
17 B 7912000204	P k-floor	TUBE ASSY 0.38 OD x 0.049W x 8.85 rev01	2.000	PC	-		
18 B 7912000078	P 100903 j02 j46	TUBE ASSY 0.38 OD FLARED HYD X 2.75	1.000	PC	-		
19 C 7912000205	P k-floor	TUBE ASSY 0.38 x 0.049W x 10.88	1.000	PC	-		
20 C 7912000200	P k-floor	TUBE ASSY 0.38 OD x 0.049W x 106.59 LH	1.000	PC	-		
21 C 7912000201	P k-floor	TUBE ASSY 0.38 OD x 0.049W x 105.81RH	1.000	PC	-		
22 C 7912000203	P k-floor	TUBE ASSY 0.38 OD x 0.049W x 69.51	2.000	PC	-		
23 A 7935000148	P 100806 C-END f	VALVE SUN COUNTER BALANCE 4000 PSI	4.000	PC	-		
24 N 7115151650	P a29 x01	CAPSCREW .31"-18NC X 2.00" HEX HEAD	8.000	PC	-		
25 N 7950150161	P 030602 080304	FLATWASHER .31" NOM WIDE - PLATED	8.000	PC	-		
26 N 7660152601	P 022603 030602	LOCKNUT .31-18NC GR5 HEX NYLOC	8.000	pc	-		
27 N 4567122026	M WA00 WA00	HOSE .38 X 26 #6 ST(FSW) - #6 90(FSW)	1.000	PC	-		
28 N 4567122024	M	HOSE ASSY .38 X 24 ST-90 FSW JIC <OBS>	1.000	PC	-		
29 N 4567122023	M	HOSE ASSY .38 x 23.00 ST-90 FSW JIC	2.000	PC	-		
30 N 4567120016	M	HOSE .38 X 16 #6 ST(FSW)	2.000	PC	-		
31 N 4567123056	M MDF1 MDF1	HOSE ASSY .38 x 56.00 ST-L90 FSW JIC	2.000	PC	-		

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 07/15/05

Item: 3509530107

HLF MPL-40 SINGLE WINCH

From Item: 3509530107

To Item: 3509530107

Last Changed Date: 07/01/05

Reference: D/3774B

Revision #A/U

BIN: WA02

UOM: PC

Quantity	1	Receive into Whse: MYPT
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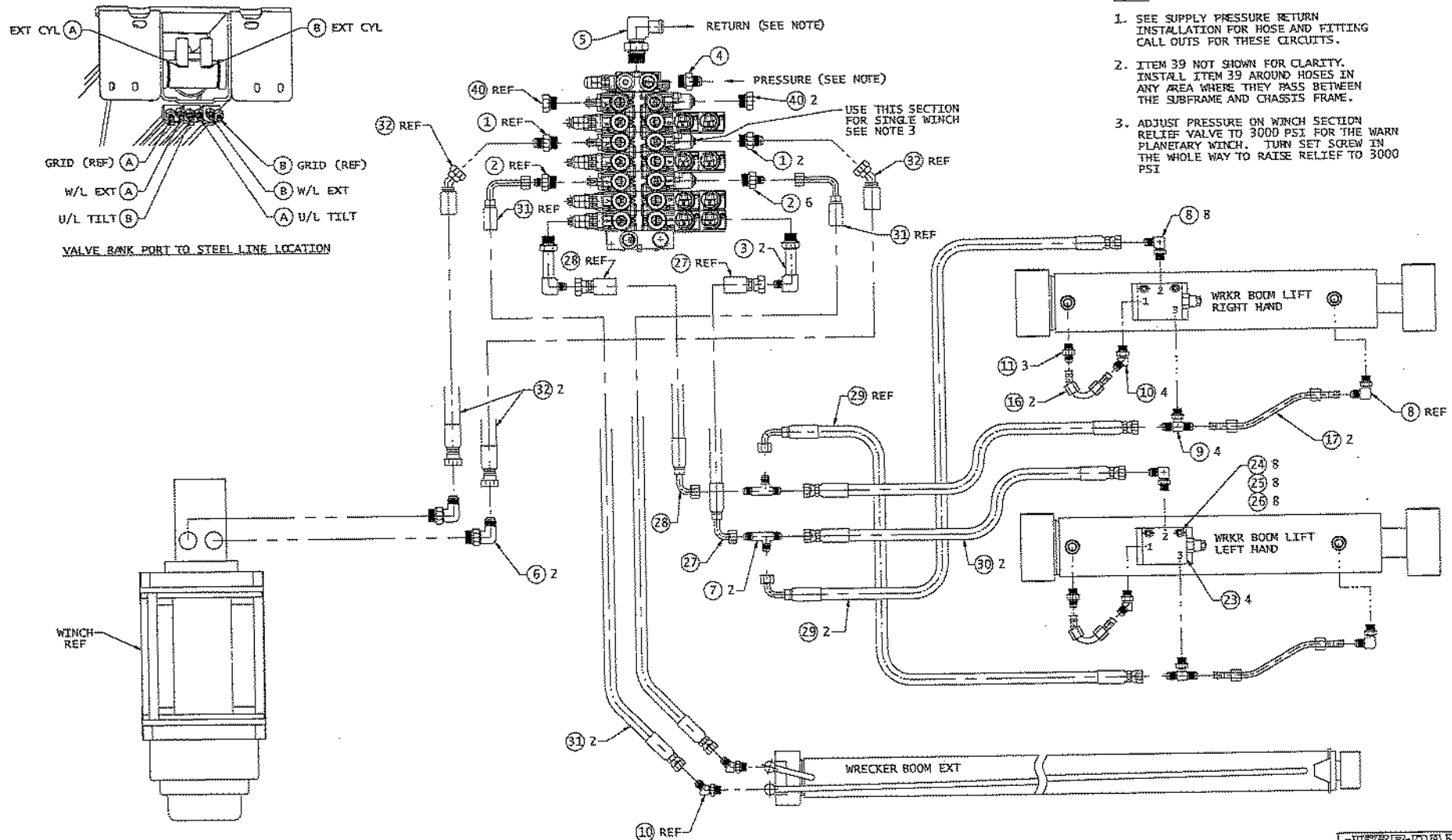
Ball Dr	Bin						
-oon Sz	Component	Type	Location	Description	QtyPer	UOM	Reference
====	=====	=====	=====	=====	=====	=====	=====
32	N 4567131061	M	MDF1	HOSE 0.50 x 61 #8 ST(FSW) - #8 45 (FSW)	2.000	PC	-
33	N 4569123061	M	CJAS	HOSE ASSY.38x61.00 ST(M)-L90(FSW)JIC	2.000	PC	-
34	N 4569120017	M	WA02	HOSE .38 x 17 #6 ST(FSW) - #6 ST(M)	1.000	PC	-
35	N 4569120018	M	WA02	HOSE ASSY 0.38x18.00 STR(M)-STR(FSW)	1.000	PC	-
36	N 4569123054	M	WA02	HOSE .38 x 54 #6 ST(M) - #6 L90(FSW)	2.000	PC	-
37	N 4567110024	M	WA00 WA00	HOSE ASSY .25 x 24.00 STR-STR FSWJIC	1.000	PC	-
38	N 4567110025	M	WA00 WA00	HOSE ASSY .25 x 25.00 STR-STR FSWJIC	1.000	PC	-
39	N 8565000007	P	A-FLOOR FLOOR	HOSE 2-1/2" SINGLE JACKET MILL	2.000	ft	-
40	7443000048	P	b01 b13	FITTING PLUG #8"O" (M)	2.000	pc	-

*** End of Item ***

*** End of Report ***

HYDRAULIC SCHEMATIC MPL-40 SINGLE WINCH

ENG NO 3-509-530107 REV 00



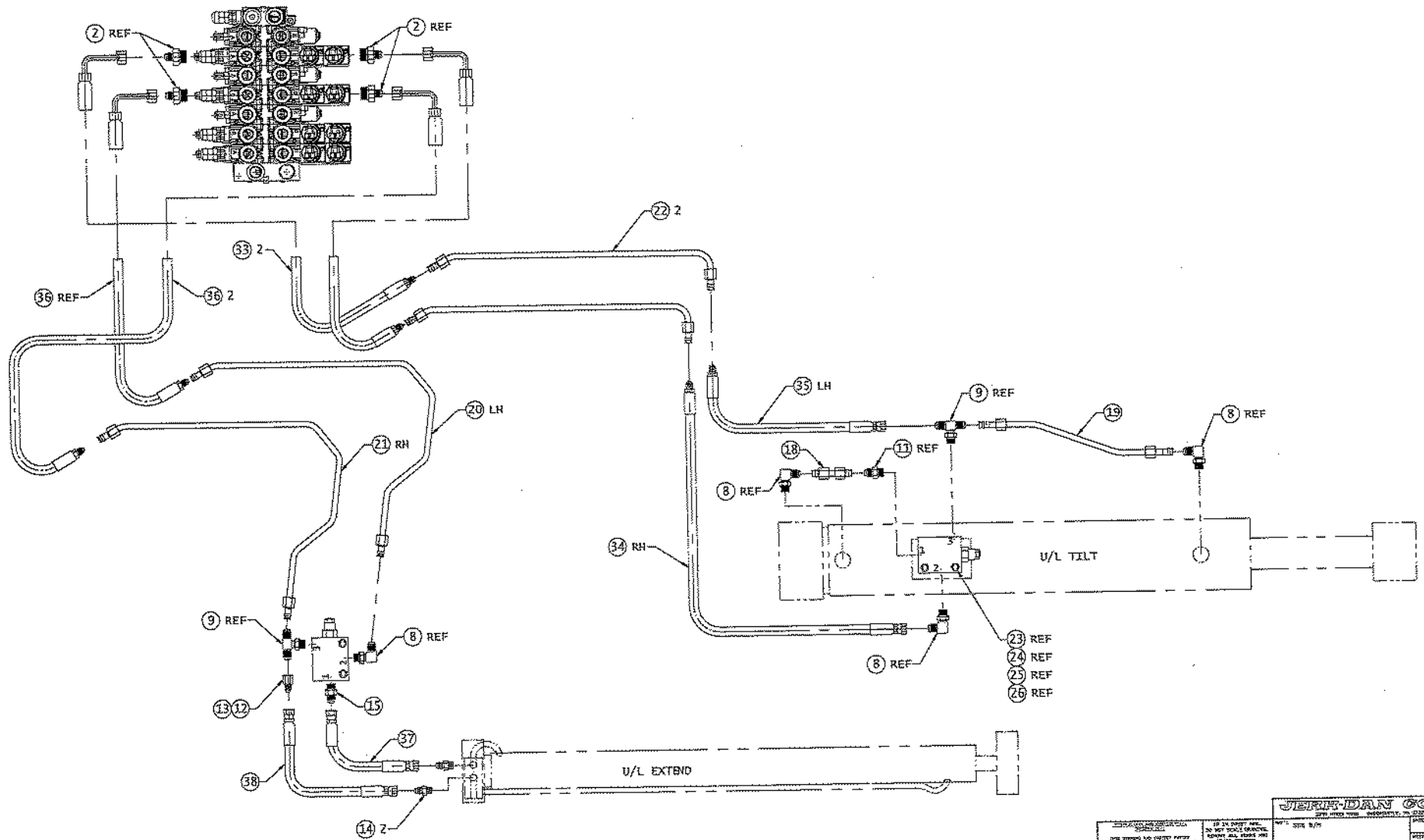
NOTES:

1. SEE SUPPLY PRESSURE RETURN INSTALLATION FOR HOSE AND FITTING CALL OUTS FOR THESE CIRCUITS.
2. ITEM 39 NOT SHOWN FOR CLARITY. INSTALL ITEM 39 AROUND HOSES IN ANY AREA WHERE THEY PASS BETWEEN THE SUBFRAME AND CHASSIS FRAME.
3. ADJUST PRESSURE ON WINCH SECTION RELIEF VALVE TO 3000 PSI FOR THE WARM PLANETARY WINCH. TURN SET SCREW IN THE WHOLE WAY TO RAISE RELIEF TO 3000 PSI

WILLIAMS-DAVIS CORP 1000 WOOD RD. WILMINGTON, DE 19804 TEL: 302/436-1000 FAX: 302/436-1001		SHEET 1 OF 2 1 OF 2
TITLE HYDRAULIC SCHEMATIC MPL-40 SINGLE WINCH		DATE 11/1/04
DRAWN BY J. J. JONES		CHECKED BY J. J. JONES
APPR'D BY J. J. JONES		DATE 11/1/04

HYDRAULIC SCHEMATIC MPL-40 SINGLE WINCH

DWG NO 3-509-530107 00 REV



HYDRAULIC SCHEMATIC MPL-40 SINGLE WINCH 2 OF 2 3-509-530107 00	
TITLE HYDRAULIC SCHEMATIC MPL-40 SINGLE WINCH DATE 11/11/04 DRAWN 1	DESIGNED 11/11/04 CHECKED 11/11/04 APPROVED 11/11/04

Body Installation

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/04/05

Item: 2097000099

BODY INSTL MPL-40

From Item: 2097000099

To Item: 2097000099

Reference: D/3774D

Last Changed Date:

Revision #0/0

BIN: WA03

UOM: PC

Quantity 1 Receive into Whse: MYPT

Ball Dr	Bin						
-oon Sz Component Type Location	Description	QtyPer	UOM	Reference	Effectivity		
====	=====	=====	=====	=====	=====		
01 D 3097000521 M WA03	BODY ASSY LH MPL-40	1.000	PC		-		
02 D 3097000522 M WA03	BODY ASSY RH MPL-40	1.000	PC		-		
03 C 4314000089 M WA03	COVERPLATE 0.19 x 14.18 x 31.00	1.000	PC		-		
04 D 4314000090 M WA03	COVERPLATE 0.19 x 31.00 x 62.63	1.000	PC		-		
05 C 4314000095 M WA03	COVERPLATE 0.12 X 19.67 X 20.21 LH	1.000	PC		-		
06 C 4314000096 M WA03	COVERPLATE 0.12 x 19.67 x 20.21 RH	1.000	PC		-		
07 B 4314000097 M AS12	COVERPLATE 0.12 x 10.38 x 51.00 ALUM	1.000	PC		-		
08 B 4090000010 M WA00	BELT 0.12 x 2.00 x 19.19	2.000	PC		-		
09 B 4090000011 M WA00	BELT 0.12 x 2.00 x 24.12	2.000	PC		-		
10 # 7661000029 P	NUT J TYPE #C31280-5618-4	8.000	PC		-		
11 N 7114150818 P	CAPSCREW .31"-18NC X 1.00" SS BH SH	8.000	PC		-		
12 A 7120000046 P	BOLT 0.25-20NC x 0.75" SELF SS PHIL PAN	4.000	PC		-		
13 N 7115181450 P 080305 a53 x01	CAPSCREW .50"-13NC X 1.75" HEX HEAD	16.000	pc		-		
14 N 7660182601 P 000105 x01	LOCKNUT .50"-13NC GR5 HEC NYLOC	16.000	PC		-		
15 N 7950180153 P 000104 x01	FLATWASHER .50" NOM HARDENED	24.000	pc		-		
16 A 7949000015 P d19	WASHER #J-2049-64 HEAD	8.000	pc		-		
17 N 7114140818 P 000108 A125 x0	CAPSCREW 0.25"-20 X 1.00" SS BT HD	12.000	PC		-		
18 N 7950140143 P 000102 x01	FLATWASHER 0.25 NOM NARROW SS	12.000	PC		-		
19 A 7413000002 P c14	NUTSERT .25"-20NC AVK INDUSTRIAL	8.000	pc		-		
20 A 7949000056 P a13	WASHER NYLON 0.50 OD x 0.25 x 0.03THK	4.000	PC		-		
21 A 7796000012 P e01 e04	SEAL ADHESIVE BACK .06 THK x .75 WIDE	12.500	ft		-		

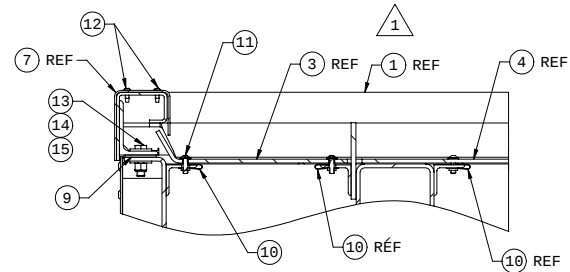
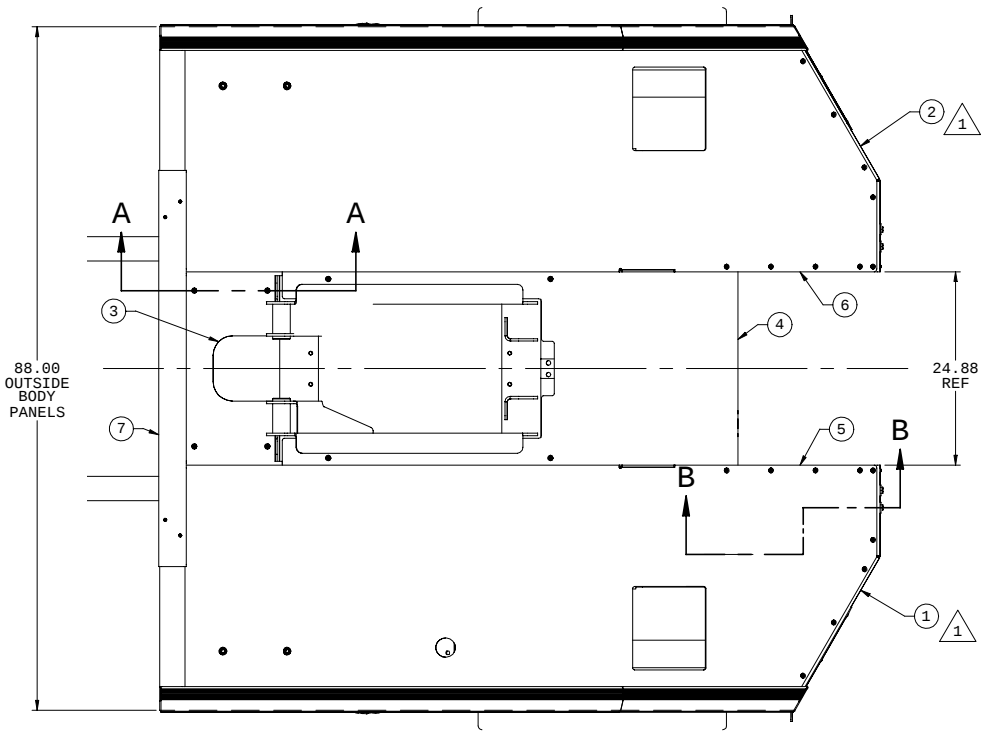
*** End of Item ***

*** End of Report ***

BODY INSTALL MPL-40

DWG NO
2-097-000099

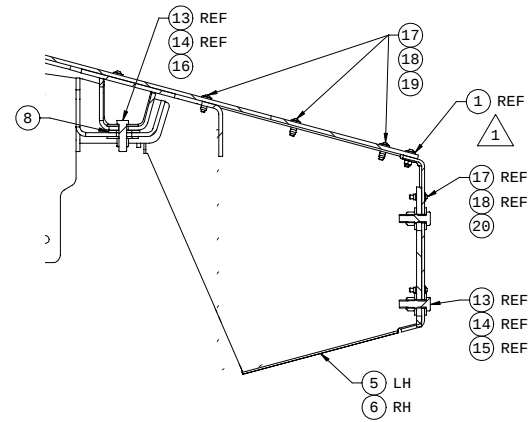
REV
01



SECTION A-A

NOTE:

1. USE LOCTITE FOR ITEMS 11 & 17
2. ITEM 21 NOT SHOWN FOR CLARITY. LOCATE BETWEEN ITEM 5 AND SUBFRAME TO PREVENT VIBRATION NOISE.
3. USE IREM 7 AS A TEMPLATE AND DRILL 0.219 DIA HOLE THRU FRONT RAIL OF DECK BEFORE INSTALLING ITEM 22



SECTION B-B

JERR-DAN <i>An Oakdale Valve Company Division</i>				SHEET 1 OF 1 REVISION 7 #	
THIS DRAWING AND SUBJECT MATTER CONTAINED HEREIN ARE THE SOLE AND EXCLUSIVE PROPERTY OF JERR-DAN CORPORATION. THIS COPY IS LOANED TO THE USER UNDER THE UNDERSTANDING THAT IT OR THE SUBJECT MATTER CONTAINED HEREIN WILL NOT BE DISCLOSED TO ANY OTHER PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF JERR-DAN CORPORATION. ACCEPTANCE OF THIS COPY SHALL BE LIMITED TO THE ACCEPTANCE OF THE FURNISHING CONDITION.				TITLE BODY INSTALL MPL-40	
IF IN DOUBT ASK. DO NOT SCALE DRAWING. REMOVE ALL BURRS AND SHARP CORNERS.				SCALE 0.12 DATE 4/4/95 DRAWN SHB	
TOLERANCES UNLESS OTHERWISE SPECIFIED: 2 PLACE DEC OR NEAR 3 PLACE DEC OR NEAR N/A TO MATERIAL THICKNESS				REV NO 2-097-000099 REV 01	

REV	DESCRIPTION	DATE	BY
1	PICTURE CHANGE TO ITEMS #1 & 2	8/16/95	SHB

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/04/05

Item: 3097000521

BODY ASSY LH MPL-40

From Item: 3097000521

To Item: 3097000521

Last Changed Date:

Reference: D/3774D

Revision #0/1/3774

BIN: WA03

UOM: PC

Quantity

1

Receive into Whse: MYPT

Ball Dr	Bin	oon Sz Component Type Location	Description	QtyPer UOM	Reference	Effectivity
====	====	=====	=====	=====	=====	=====
01	D	3097000523 M WA01	DECK WELD LH MPL-40	1.000 PC		-
02	D	3899000119 M WA01	TOOLBOX BONDMENT LH	1.000 PC		-
03	D	4811000819 M WA01	SHEET 0.12 x 23.56 x 52.36 LH	1.000 PC		-
04	D	3811000033 M WA01	SHEET WELD TAILPLATE LH	1.000 PC		-
05	C	4314000091 M WA01	COVERPLATE 0.12 x 19.00 x 27.48 LH	1.000 PC		-
06	B	4178000579 M WA01	BRACKET 0.19 x 10.22 x 21.50 LH	1.000 PC		-
07	B	4178000577 M WA01	BRACKET 0.12 x 7.05 x 13.50	1.000 PC		-
08	C	4811000840 M WA01	SHEET 0.12 x 6.95 x 19.50	1.000 PC		-
09	C	7571000001 P 100501 m04	HOUSING TAILLIGHT COMPOSITE	1.000 PC		-
10	A	7796000012 P e01 e04	SEAL ADHESIVE BACK .06 THK x .75 WIDE	4.500 ft		-
11	D	7413000013 P 022304 e02	FASTENER PUSH ON RATCHET #27RT250800	8.000 PC		-
12	C	4686000207 M WA01	SHEET 0.12 x 14.35 x 28.42	1.000 PC		-
13	B	7555000012 P m09	HINGE DOOR S/S	2.000 PC		-
14	N	7114140818 P 000108 A125 x0	CAPSCREW 0.25"-20 X 1.00" SS BT HD	19.000 PC		-
15	A	7949000056 P a13	WASHER NYLON 0.50 OD x 0.25 x 0.03THK	11.000 PC		-
16	N	7950140161 P 000104 A96	FLATWASHER .25" NOM WIDE - PLATED	22.000 pc		-
17	N	7660142601 P a23	LOCKNUT .25"-20NC GR5 HEX NYLOC	16.000 pc		-
18	C	7585000019 P n-floor	LATCH ERGONOMIC T HANDLE LH 1-8400-L-31	1.000 PC		-
19	B	4632000050 M WA01	SEAL TOOLBOX DOOR 72.62	1.000 PC		-
20	A	4062000569 M WA01	BAR 0.12 x 0.50 x 4.00 ALUM	1.000 PC		-
21	A	4706003611 M AS13	PLATE 10GA X 1.00 X 4.00 SS	1.000 PC		-
22	N	7759000006 P 000104 c20	POP RIVET .13"DIA X .50" GRIP ALUM	2.000 pc		-
23	D	4811000823 M WA01	SHEET 0.12 x 9.85 x 37.66	1.000 PC		-
24	N	7115140650 P 080304 a23	CAPSCREW .25"-20NC X .75" HEX HEAD	3.000 PC		-
25	N	7950140000 P 000104 A96 x01	LOCKWASHER .25" NOM REG CS	6.000 PC		-
26	A	7413000002 P c14	NUTSERT .25"-20NC AVK INDUSTRIAL	3.000 pc		-
27	N	7950140143 P 000102 x01	FLATWASHER 0.25 NOM NARROW SS	5.000 PC		-
28	N	7115161050 P 022504 x01	CAPSCREW .38"-16NC X 1.25" HEX HEAD	23.000 PC		-
29	N	7950160161 P 000104 A97 x01	FLATWASHER .38" NOM WIDE - PLATED	33.000 PC		-
30	N	7660162601 P 000105 x01	LOCKNUT .38"-16NC GR5 NYLOC	10.000 pc		-
31	N	7950160000 P 000104 022504	LOCK WASHER .38"ID - PLATED	13.000 PC		-

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/04/05

Item: 3097000521

BODY ASSY LH MPL-40

From Item: 3097000521

To Item: 3097000521

Last Changed Date:

Reference: D/3774D

Revision #0/1/3774

BIN: WA03

UOM: PC

Quantity

1

Receive into Whse: MYPT

Ball Dr

Bin

-oon Sz Component Type Location

Description

QtyPer UOM

Reference

Effectivity

=== == =====

=====

=====

=====

=====

=====

32 A 4679000252

M WA03

PAD 0:19 x 16:25 x 32:50

1.000 PC

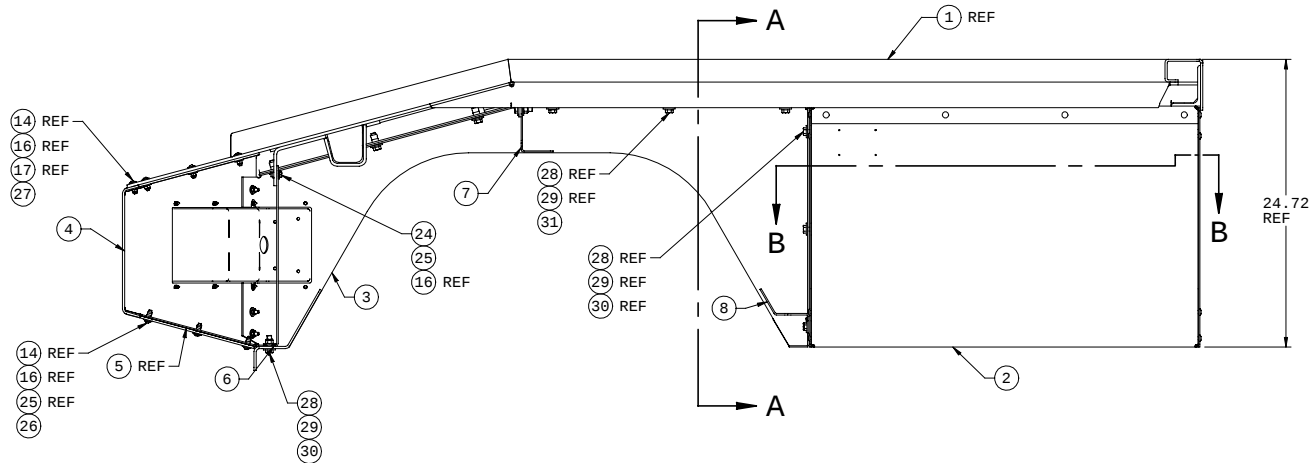
*** End of Item ***

*** End of Report ***

BODY ASSY LH

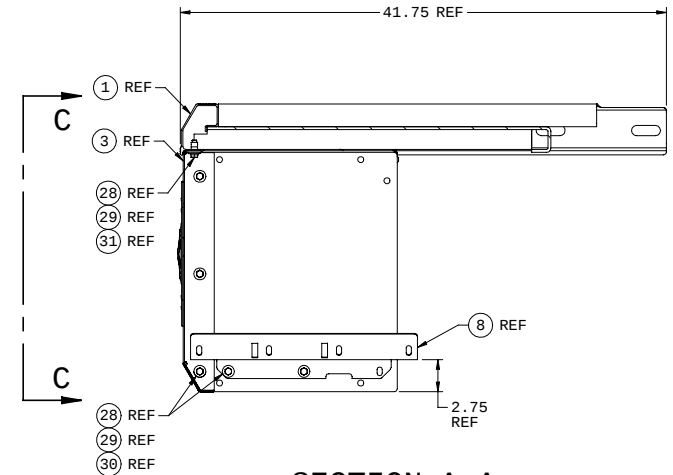
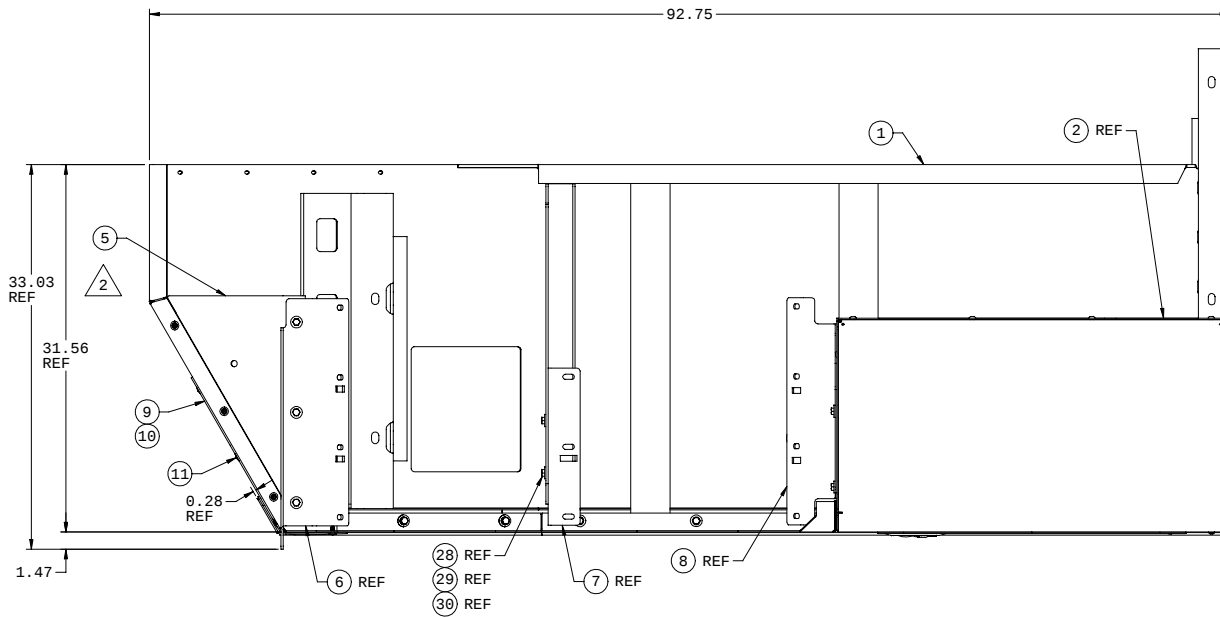
DWG NO
3-097-000521

REV
02



NOTES:

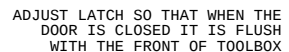
1. LOCATE SEAL (ITEM 10) BETWEEN ITEM 1 & ITEM 4, BETWEEN ITEM 3 & ITEM 4, AND BETWEEN ITEM 4 & ITEM 9 TO PREVENT PAINT DAMAGE.



SECTION A-A

JERR-DAN An Oakdale Valve Company Division		PART: SEE B/M SHEET 1 OF 2	
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TOLERANCES UNLESS OTHERWISE SPECIFIED: 2 DECIMALS 3 PLACE DEC AS SHOWN 4 PLACE DEC AS SHOWN 5 PLACE DEC AS SHOWN 6 PLACE DEC AS SHOWN 7 PLACE DEC AS SHOWN 8 PLACE DEC AS SHOWN 9 PLACE DEC AS SHOWN 10 PLACE DEC AS SHOWN 11 PLACE DEC AS SHOWN 12 PLACE DEC AS SHOWN 13 PLACE DEC AS SHOWN 14 PLACE DEC AS SHOWN 15 PLACE DEC AS SHOWN 16 PLACE DEC AS SHOWN 17 PLACE DEC AS SHOWN 18 PLACE DEC AS SHOWN 19 PLACE DEC AS SHOWN 20 PLACE DEC AS SHOWN 21 PLACE DEC AS SHOWN 22 PLACE DEC AS SHOWN 23 PLACE DEC AS SHOWN 24 PLACE DEC AS SHOWN 25 PLACE DEC AS SHOWN 26 PLACE DEC AS SHOWN 27 PLACE DEC AS SHOWN 28 PLACE DEC AS SHOWN 29 PLACE DEC AS SHOWN 30 PLACE DEC AS SHOWN 31 PLACE DEC AS SHOWN 32 PLACE DEC AS SHOWN 33 PLACE DEC AS SHOWN 34 PLACE DEC AS SHOWN 35 PLACE DEC AS SHOWN 36 PLACE DEC AS SHOWN 37 PLACE DEC AS SHOWN 38 PLACE DEC AS SHOWN 39 PLACE DEC AS SHOWN 40 PLACE DEC AS SHOWN 41 PLACE DEC AS SHOWN 42 PLACE DEC AS SHOWN 43 PLACE DEC AS SHOWN 44 PLACE DEC AS SHOWN 45 PLACE DEC AS SHOWN 46 PLACE DEC AS SHOWN 47 PLACE DEC AS SHOWN 48 PLACE DEC AS SHOWN 49 PLACE DEC AS SHOWN 50 PLACE DEC AS SHOWN 51 PLACE DEC AS SHOWN 52 PLACE DEC AS SHOWN 53 PLACE DEC AS SHOWN 54 PLACE DEC AS SHOWN 55 PLACE DEC AS SHOWN 56 PLACE DEC AS SHOWN 57 PLACE DEC AS SHOWN 58 PLACE DEC AS SHOWN 59 PLACE DEC AS SHOWN 60 PLACE DEC AS SHOWN 61 PLACE DEC AS SHOWN 62 PLACE DEC AS SHOWN 63 PLACE DEC AS SHOWN 64 PLACE DEC AS SHOWN 65 PLACE DEC AS SHOWN 66 PLACE DEC AS SHOWN 67 PLACE DEC AS SHOWN 68 PLACE DEC AS SHOWN 69 PLACE DEC AS SHOWN 70 PLACE DEC AS SHOWN 71 PLACE DEC AS SHOWN 72 PLACE DEC AS SHOWN 73 PLACE DEC AS SHOWN 74 PLACE DEC AS SHOWN 75 PLACE DEC AS SHOWN 76 PLACE DEC AS SHOWN 77 PLACE DEC AS SHOWN 78 PLACE DEC AS SHOWN 79 PLACE DEC AS SHOWN 80 PLACE DEC AS SHOWN 81 PLACE DEC AS SHOWN 82 PLACE DEC AS SHOWN 83 PLACE DEC AS SHOWN 84 PLACE DEC AS SHOWN 85 PLACE DEC AS SHOWN 86 PLACE DEC AS SHOWN 87 PLACE DEC AS SHOWN 88 PLACE DEC AS SHOWN 89 PLACE DEC AS SHOWN 90 PLACE DEC AS SHOWN 91 PLACE DEC AS SHOWN 92 PLACE DEC AS SHOWN 93 PLACE DEC AS SHOWN 94 PLACE DEC AS SHOWN 95 PLACE DEC AS SHOWN 96 PLACE DEC AS SHOWN 97 PLACE DEC AS SHOWN 98 PLACE DEC AS SHOWN 99 PLACE DEC AS SHOWN 100 PLACE DEC AS SHOWN		TITLE BODY ASSY LH SCALE 0.19 DATE 1/12/95 DRAWN SHB CHECKED APPROVED	
REV NO 3-097-000521		REV 02	

DWG NO	REV
3-097-000521	02

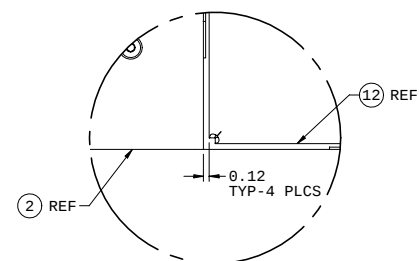


DETAIL D
SCALE: 1.00



ROTATE CCW
TO UN-LATCH.

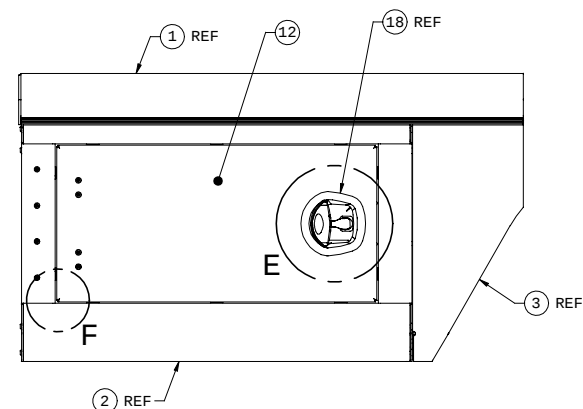
DETAIL E
ALL HARDWARE TO INSTALL
LATCH IS INCLUDED



DETAIL F
SCALE: 1.00



SECTION B-B



SECTION C-C

JERR-DAN <i>An Online Property Corporation</i>		SHEET 2 OF 2 1#	
PROPERTY INFORMATION THIS DRAWING AND SUBJECT MATTER CONTAINING THEREON ARE THE SOLE PROPERTY OF JERR-DAN CORPORATION. THIS COPY IS LOANED WITH THE UNDERSTANDING THAT IT OR THE SUBJECT MATTER CONTAINED HEREON WILL NOT BE REPRODUCED OR IN ANY MANNER BE USED FOR ANY PURPOSES OF JERR-DAN CORPORATION, ACCEPTANCE OF THIS COPY SHALL BE CONSIDERED AS ACCEPTANCE OF THE FOREGOING CONDITIONS.		IF IN DOUBT ASK DO NOT SCALE DRAWING. REMOVE ALL RUBBER AND SHARP CORNERS. 1/16" = 1' SCALE OVERLINE SPECIFIED PLACE OR PLACE IN 3/4" PLACE BOX OR 3/4" ANGLE BOX OR 3/4"	
REVISIONS		TITLE BODY ASSY LH	
REVISION NO.	DESCRIPTION	DATE	BY
01	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
02	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
03	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
04	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
05	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
06	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
07	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
08	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
09	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
10	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
11	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
12	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
13	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
14	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
15	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
16	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
17	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
18	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
19	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
20	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
21	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
22	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
23	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
24	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
25	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
26	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
27	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
28	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
29	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
30	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
31	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
32	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
33	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
34	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
35	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
36	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
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38	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
39	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
40	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
41	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
42	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
43	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
44	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	SRS
45	1-4-37741 ADD'D DETAIL E AND LATCH ROTATION NOTE	02/28/09	

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/04/05

Item: 3097000522

BODY ASSY RH MPL-40

From Item: 3097000522

To Item: 3097000522

Last Changed Date:

Reference: D/3774D

Revision #0/1/3774

BIN: WA03

UOM: PC

Quantity

1

Receive into Whse: MYPT

Ball Dr	Bin	oon Sz Component Type Location	Description	QtyPer	UOM	Reference	Effectivity
==	==	=====	=====	=====	==	=====	=====
01	D	3097000524 M WA01	DECK WELD RH MPL-40	1.000	PC		-
02	D	3899000120 M WA01	TOOLBOX BONDMENT RH	1.000	PC		-
03	D	4811000820 M WA01	SHEET 0.12 x 23.56 x 52.36 RH	1.000	PC		-
04	D	3811000034 M WA01	SHEET WELD TAILPLATE RH	1.000	PC		-
05	C	4314000092 M WA01	COVERPLATE 0.12 x 19.00 x 27.48 RH	1.000	PC		-
06	B	4178000580 M WA01	BRACKET 0.19 x 10.22 x 21.50 RH	1.000	PC		-
07	B	4178000577 M WA01	BRACKET 0.12 x 7.05 x 13.50	1.000	PC		-
08	C	4811000840 M WA01	SHEET 0.12 x 6.95 x 19.50	1.000	PC		-
09	C	7571000001 P 100501 m04	HOUSING TAILLIGHT COMPOSITE	1.000	PC		-
10	A	7796000012 P e01 e04	SEAL ADHESIVE BACK .06 THK x .75 WIDE	4.500	ft		-
11	D	7413000013 P 022304 e02	FASTENER PUSH ON RATCHET #27RT250800	8.000	PC		-
12	C	4686000207 M WA01	SHEET 0.12 x 14.35 x 28.42	1.000	PC		-
13	B	7555000012 P m09	HINGE DOOR S/S	2.000	PC		-
14	N	7114140818 P 000108 A125 x0	CAPSCREW 0.25"-20 X 1.00" SS BT HD	19.000	PC		-
15	A	7949000056 P a13	WASHER NYLON 0.50 OD x 0.25 x 0.03THK	11.000	PC		-
16	N	7950140161 P 000104 A96	FLATWASHER .25" NOM WIDE - PLATED	22.000	pc		-
17	N	7660142601 P a23	LOCKNUT .25"-20NC GR5 HEX NYLOC	16.000	pc		-
18	C	7585000020 P n-floor	LATCH ERGONOMIC T HANDLE RH 1-8400-R-31	1.000	PC		-
19	B	4632000050 M WA01	SEAL TOOLBOX DOOR 72.62	1.000	PC		-
20	A	4062000569 M WA01	BAR 0.12 x 0.50 x 4.00 ALUM	1.000	PC		-
21	A	4706003611 M AS13	PLATE 10GA X 1.00 X 4.00 SS	1.000	PC		-
22	N	7759000006 P 000104 c20	POP RIVET .13"DIA X .50" GRIP ALUM	2.000	pc		-
23	D	4811000823 M WA01	SHEET 0.12 x 9.85 x 37.66	1.000	PC		-
24	N	7115140650 P 080304 a23	CAPSCREW .25"-20NC X .75" HEX HEAD	3.000	PC		-
25	N	7950140000 P 000104 A96 x01	LOCKWASHER .25" NOM REG CS	6.000	PC		-
26	A	7413000002 P c14	NUTSERT .25"-20NC AVK INDUSTRIAL	3.000	pc		-
27	N	7950140143 P 000102 x01	FLATWASHER 0.25 NOM NARROW SS	5.000	PC		-
28	N	7115161050 P 022504 x01	CAPSCREW .38"-16NC X 1.25" HEX HEAD	23.000	PC		-
29	N	7950160161 P 000104 A97 x01	FLATWASHER .38" NOM WIDE - PLATED	33.000	PC		-
30	N	7660162601 P 000105 x01	LOCKNUT .38"-16NC GR5 NYLOC	10.000	pc		-
31	N	7950160000 P 000104 022504	LOCK WASHER .38"ID - PLATED	13.000	PC		-

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/04/05

Item: 3097000522

BODY ASSY RH MPL-40

From Item: 3097000522

To Item: 3097000522

Last Changed Date:

Reference:D/3774D

Revision #0/1/3774

BIN: WA03

UOM: PC

Quantity

1

Receive into Whse: MYPT

Ball Dr

Bin

-oon Sz Component Type Location

Description

QtyPer UOM

Reference

Effectivity

32 A 4679000253

M WA03

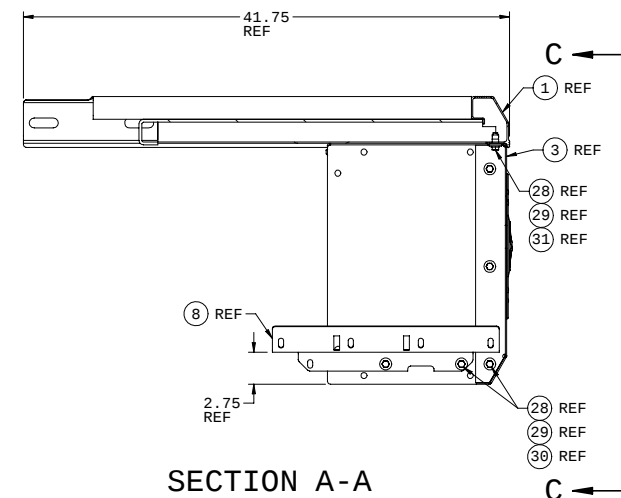
PAD 0.19 x 13.25 x 32.50

1.000 PC

*** End of Item ***

*** End of Report ***

DWG NO	REV
3-097-000522	02



SECTION A-A

NOTES:

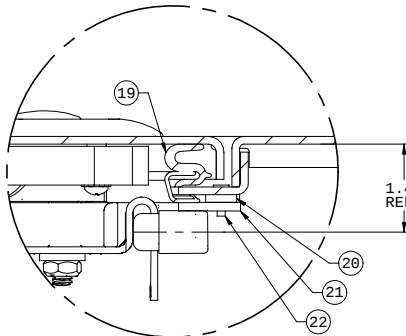
1. LOCATE SEAL (ITEM 10) BETWEEN ITEM 1 & ITEM 4, BETWEEN ITEM 3 & ITEM 4, AND BETWEEN ITEM 4 & ITEM 9 TO PREVENT PAINT DAMAGE.

[illegible]

BODY ASSY RH

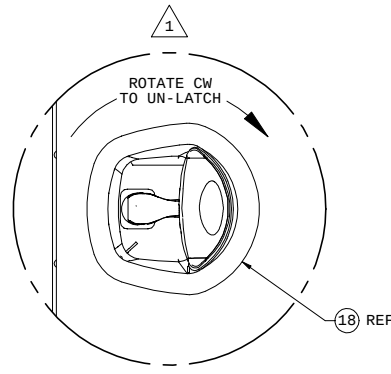
DWG NO
3-097-000522

REV
02

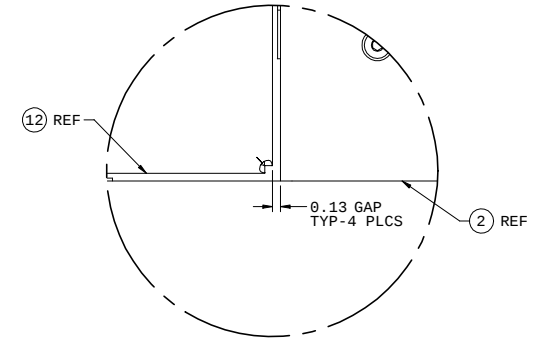


DETAIL D
SCALE: FULL

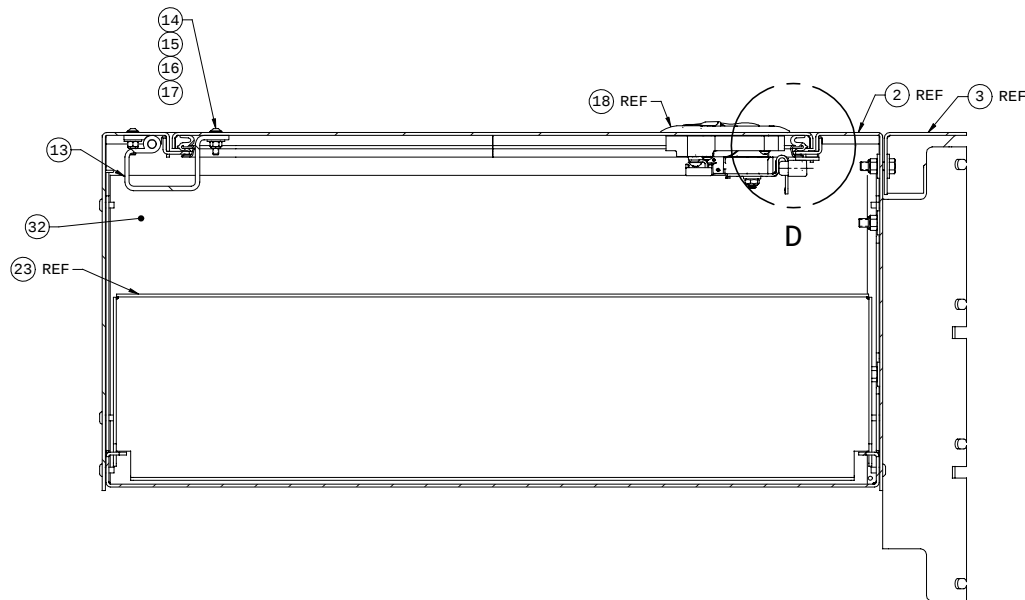
ADJUST LATCH SO THAT WHEN THE
DOOR IS CLOSED IT IS FLUSH
WITH THE FRONT OF TOOLBOX



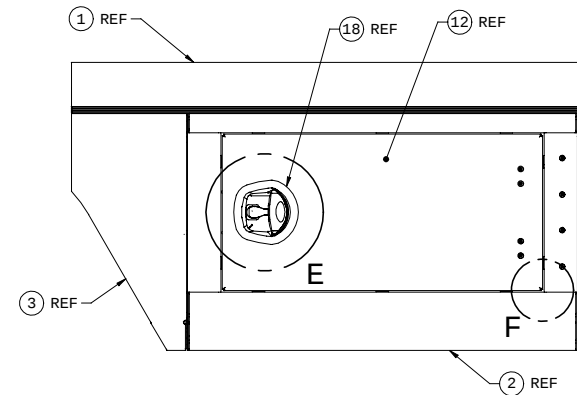
DETAIL E
SCALE: 0.50
ALL HARDWARE TO INSTALL
LATCH IS INCLUDED



DETAIL F
SCALE: FULL



SECTION B-B
SCALE: 0.38



VIEW C-C

JERR-DAN An Oakdale Valve Company Division				SHEET 2 OF 2 REVISION 7 #	
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TOLERANCES UNLESS OTHERWISE SPECIFIED: 3 PLACE DEC. AS DIM. 2 INCHES OR LESS 1/16" TO MATERIAL THICKNESS				TITLE BODY ASSY RH SCALE 0.19 DATE 1/21/85 DRAW RHE	
ALL E-4 1774 REVISIONS DESCRIPTION DATE BY				REV NO 02 3-097-000522	

Manual Controls Installation

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 07/20/05

Item: 2509170038

CONTROL INSTALL W/ DUAL WINCH

From Item: 2509170038

To Item: 2509170038

Last Changed Date: 07/18/05

Reference: D/3774C

Revision: B/2/3774

BIN: WA03

UOM: PC

Quantity

1

Receive into Whse: MYPT

Ball Dr

Bin

-oon Sz Component Type Location

Description

QtyPer UOM

Reference

Effectivity

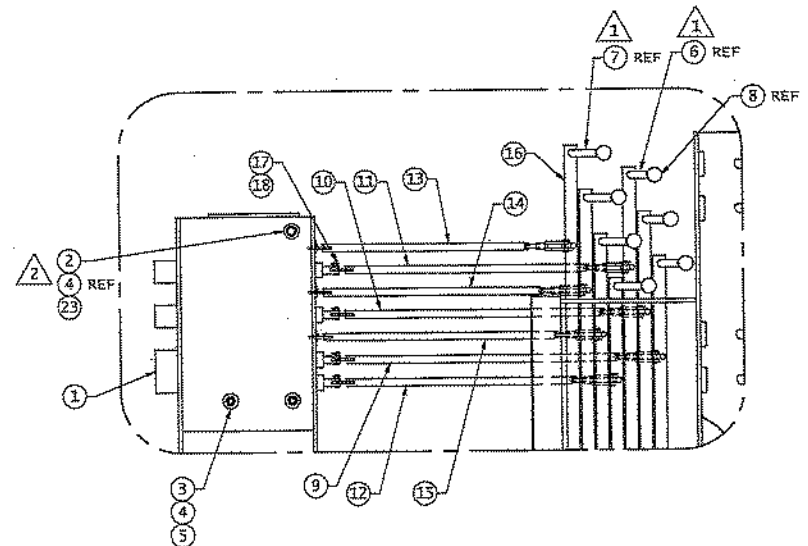
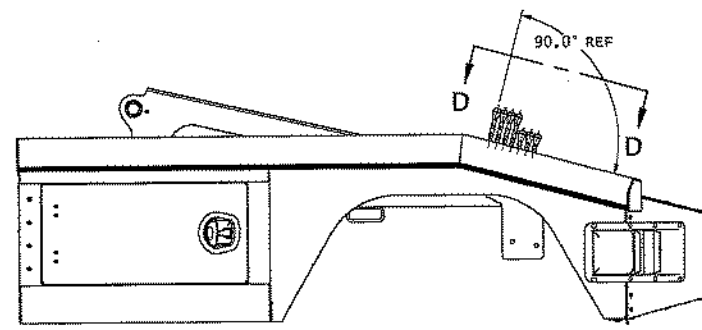
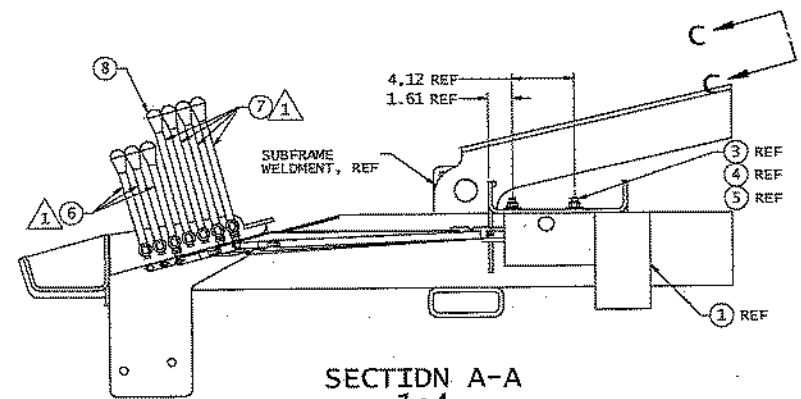
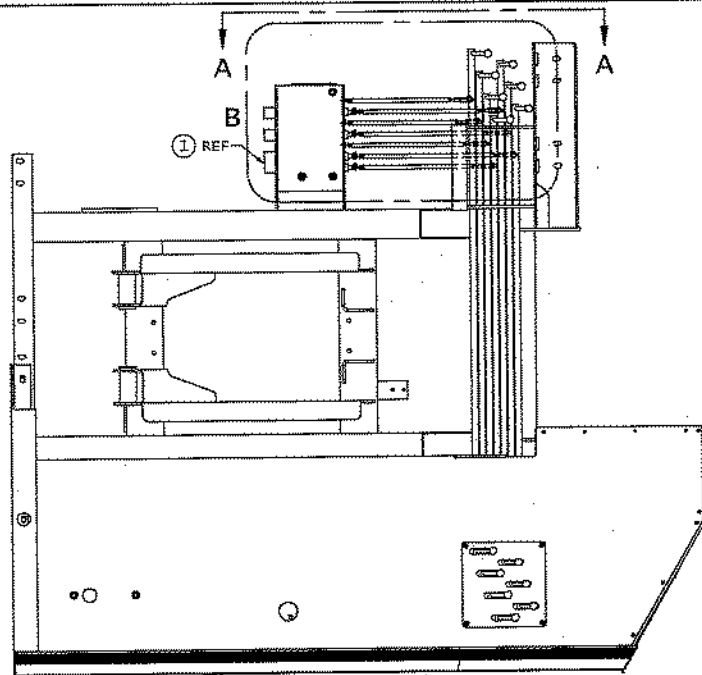
====	==	=====	=====	=====	=====	=====	=====
01	3	3935000130	P n-floor	VALVE ASSEMBLY HUSCO 7-SECTION	1.000 PC		-12/30/29
02	N	7115151050	P 000105 x01	CAPSCREW .31"-18NC X 1.25" HEX HEAD	1.000 pc	3774	01/31/05-
03	N	7115161250	P 000102 a35	CAPSCREW .38"-16NC X 1.50" HEX HEAD	2.000 PC		-
04	N	7950140161	P 000104 A96	FLATWASHER .25" NOM WIDE - PLATED	3.000 pc	3774	01/31/05-
05	N	7660162601	P 000105 x01	LOCKNUT .38"-16NC GR5 NYLOC	2.000 pc		-
06	B	4763000302	P A-FLOOR	ROD 0.50" DIA X 6.5"	6.000 PC		-
07	B	4763000303	P A-FLOOR	ROD 0.50" DIA X 8.50"	8.000 PC		-
08	A	7551000015	P 100704 e05	KNOB DIMCO-GRAY #277	14.000 PC		-
09	B	3763000145	M WA00	ROD WELD CONTROL 20.28	1.000 PC		-
10	B	3763000146	M WA00	ROD WELD CONTROL 19.32	1.000 PC		-
11	B	3763000147	M WA00	ROD WELD CONTROL 18.35	1.000 PC		-
12	B	3763000148	M WA00	ROD WELD CONTROL 17.38	1.000 PC		-
13	B	3763000149	M WA00	ROD WELD CONTROL 15.90	1.000 PC		-
14	B	3763000150	M WA00	ROD WELD CONTROL 16.89	1.000 PC		-
15	B	3763000151	M WA00	ROD WELD CONTROL 17.78	1.000 PC		-
16		4763000154	M WA00	ROD .50 DIA X 68.00	7.000 PC		-
17	N	7690101200	P 000105 c21	PIN .19"DIA X .75" CLEVIS	7.000 PC		-
18	N	7690000810	P 000107 c14	PIN 0.063 X 0.50 COTTER	7.000 PC		-
19	A	7577000273	P	KIT CONTROL HANDLE YOKE	7.000 PC		-
20		7765000006	P 080304	ROD END .38"-16NC - 1.88" LONG	7.000 PC		-
21	B	4314000085	M WA03	COVERPLATE 0.12 x 11.50 x 11.50	2.000 PC		-
22	A	7120000046	P	BOLT 0.25-20NC X 0.75" SELF SS PHIL PAN	8.000 PC	3774	01/31/05-
23	N	7950160000	P 000104 022504	LOCK WASHER .38"ID - PLATED	1.000 PC	3774	01/31/05-
24	N	7660160000	P 000105 022504	NUT .38"-16NC GR2 HEX- PLATED	7.000 PC		-
25	3	7330000538	P c02	DECAL CONTROL MPL40	2.000 PC		-

*** End of Item ***

*** End of Report ***

CONTROL INSTALL W/ DUAL WINCH

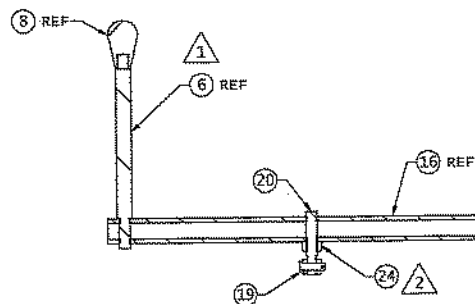
DWG NO. 2-509-170038 REV 02



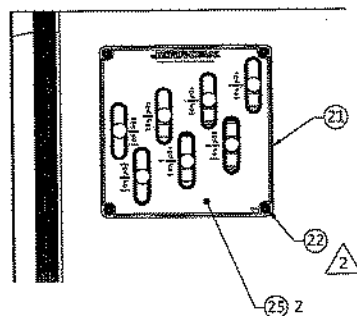
STERN-DAN CORP. 3115 WOODMAN, GREENSBORO, N.C. 27409		SHEET 3 OF 2 DRAWN BY: J.E.
TITLE: CONTROL INSTALL W/ DUAL WINCH DATE: 12/26/74 SCALE: 1:8 DRAWN BY: J.E.	CHECKED BY: J.E. DATE: 12/26/74 SCALE: 1:8 DRAWN BY: J.E.	APPROVED BY: J.E. DATE: 12/26/74 SCALE: 1:8 DRAWN BY: J.E.

CONTROL INSTALL W/ DUAL WINCH

DWG NO. 2-509-170038 REV 02



SECTION C-C
1:2



VIEW D-D
1:4

STERE-DAN CORP. 1000 WEST 10TH AVE. SPOKANE, IDAHO 83402		DATE: 2 OF 2 DRAWN: J.P.	
THIS DRAWING AND ALL CONTENTS HEREON ARE THE PROPERTY OF STEREO-DAN CORP. AND ARE NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF STEREO-DAN CORP.		TITLE: CONTROL INSTALL W/ DUAL WINCH DATE: 12/20/24 DRAWN: J.P. CHECKED: J.P.	
PART 12/20/24 DRAWN: J.P. CHECKED: J.P.		DWG NO. 2-509-170038 REV 02	

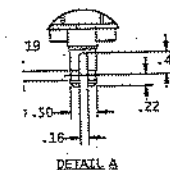
VALVE ASSY, HUSCO 7 SECTION

DWG NO. 3-935-000130 REV 00

HUSCO: P/N 5000-G61

RELIEF & REGULATING VALVE SETTINGS

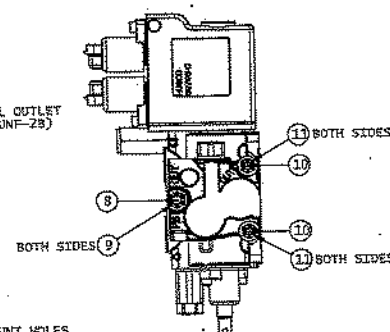
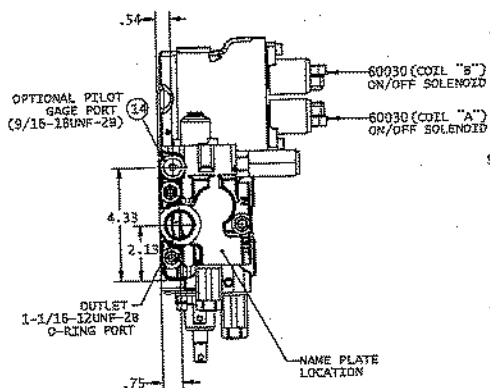
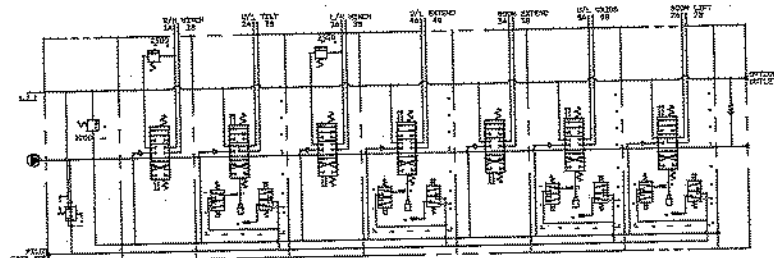
- 1 TO BE SET AT 3000 ± 50 PSI @ 8 GPM
TORQUE CAP PER HUSCO SPEC. 810-214
- 2 TO BE SET AT 2500 ± 50 PSI @ 1 GPM
- 3 TO BE SET AT 425 ± 25 PSI @ 1 GPM



SPOOL MOVEMENTS		ON/OFF COIL 60030	
		COIL "A"	COIL "B"
0.28 HI-PRESS "A" - LOW-PRESS "B" (IN)		ON	OFF
0.00 NEUTRAL & HOLD "A & B"		OFF	OFF
0.28 HI-PRESS "B" - LOW-PRESS "A" (OUT)		OFF	ON

SPOOL MOVEMENTS		ON/OFF COIL 60030	
		COIL "A"	COIL "B"
0.18 HI-PRESS "A" - LOW-PRESS "B" (IN)		ON	OFF
0.00 NEUTRAL & HOLD "A & B"		OFF	OFF
0.28 HI-PRESS "B" - LOW-PRESS "A" (OUT)		OFF	ON

SPOOL MOVEMENTS		ON/OFF COIL 60030	
		COIL "A"	COIL "B"
0.28 HI-PRESS "A" - LOW-PRESS "B" (IN)		ON	OFF
0.00 NEUTRAL		OFF	OFF
0.28 HI-PRESS "B" - LOW-PRESS "A" (OUT)		OFF	ON



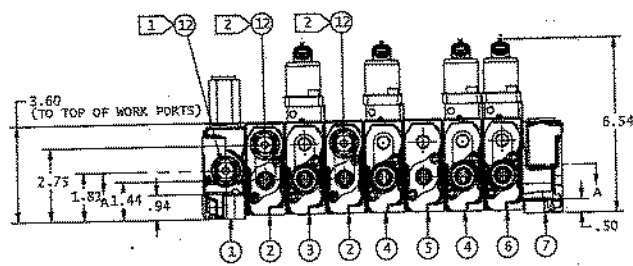
PARALLEL CIRCUIT - OPEN CENTER

JERR-DAN SPECIFICATIONS:
PART NO.: 393500130
PUMP OUTPUT: 8 GPM
OPERATING PRESS.: 3000 PSI
OPERATING TEMP.: -20° F TO +200° F
OIL TYPE: SAE 10W
CENTERING SPRINGS ARE ADEQUATE TO RETURN SPOOLS TO NEUTRAL PER ABOVE INFO.
ELECTRICAL SPECS.: SEE TABLE

HUSCO TEST SPECIFICATIONS:
1. TEST WITH PETROLEUM BASE SAE 10W HYD OIL AT 110° F ± 10° F (129 SSU)
2. VALVE TO BE TESTED AT 3000 ± 50 PSI @ 8 GPM
3. LEAKAGE RATES AT 1000 PSI:
A. SPOOLS: PORTS 1A, 1B, 3A, 3B, 4A, 4B, 5A, & 5B:
NOT TO EXCEED 0.75 CIPM
B. SPOOLS: PORTS 2A, 2B, 7A & 7B:
NO TEST (MOTOR SPOOLS)
C. LOAD CHECK: ALL PORTS NOT TO EXCEED 5.0 CIPM
4. SPECIAL TEST SPECIFICATIONS: TP-1002 & TP-1158
5. SPOOL CENTERING TEST PER ABOVE INFO.
6. ELECTRICAL SPECS.: SEE TABLE A

ON/OFF SOLENOID		P/N: 60030
CONNECTOR ON VALVE		METRI-PACK 150-2 (REF. P/N: 12039512)
MATING CONNECTOR	12162193-8 (3D/7346000174)	
MATING PIN	12124075-1 (3D/7346000175)	
RESISTANCE	10.5 ohms	
INDUCTANCE	112 mHr	
VOLTAGE	MAX	15 V
	NOMINAL	12 V
CURRENT	MAX	1.6 A
	RECOMMENDED	1.0 A
	ON	750 - 1600 mA
	OFF	< 90 mA

IDX	PART NO.	QTY	DESCRIPTION	HUSCO SPEC. / MISC.
16	55400-1	1	CHECK VALVE ASSY.	HUSCO SPEC. 805-101
15	52669-1	3	PLUG ASSY.-SAE	HUSCO SPEC. 807-107
14	400079	1	PLUG ASSY.-SAE	HUSCO SPEC. 807-105
13	58108-2	1	PRESSURE REGULATING VALVE	HUSCO SPEC. 800-033
12	59670-8	3	RELIEF VALVE ASSY.	HUSCO SPEC. 805-101
11	1861	4	NUT-SPECIAL	HUSCO SPEC. 812-101
10	5069-7	2	TIE ROD	
9	1052	2	NUT-SPECIAL	HUSCO SPEC. 812-102
8	3089-7	1	TIE ROD	
7	5003-A67	1	OUTLET SECTION ASSY.	
6	5002-A1259	1	SPOOL SECTION ASSY.	
5	5002-A1261	1	SPOOL SECTION ASSY.	
4	5002-A1278	2	SPOOL SECTION ASSY.	
3	5002-A1260	1	SPOOL SECTION ASSY.	
2	5002-A1262	2	SPOOL SECTION ASSY.	
1	5001-T1	1	INLET SECTION ASSY.	



JERR-DAN		DATE	BY	REV
VALVE ASSY, HUSCO 7 SECTION		01/28/05	SP	1
D 3-935-000130				

Electrical Controls Installation

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/04/05

Item: 3509330097

ELECT ASSY CONTROL MPL-40 W/HYD GRIDS

From Item: 3509330097

To Item: 3509330097

Reference: D/3774E

Last Changed Date:

Revision #0/0

BIN: WA03

UOM: PC

Quantity

1

Receive into Whse: MYPT

Ball Dr

Bin

-oon Sz Component Type Location

Description

QtyPer UOM

Reference

Effectivity

--- == -----

01 D 7552000289

P k06

HARNESSE WIRED REMOTE MPL40

1.000 PC

02 D 7295000062

P a20

CONTROLLER HAND 8 FUNCT W/ LANYARD

1.000 PC

03 A 4706003402

M WA00

PLATE 0.06 X 1.75 X 2.50 ALUM

1.000 PC

04 N 7790100856

P 000103 c21 x01

SCREW #10 X .50" HWH SELF-TAPPING

3.000 pc

05 A 7740000003

P a07 f18

RELAY (W/MTG BRKT) 12VDC 40A

1.000 pc

06 N 7345001710

P c20 j19

TAB #192005 .25" 14-16 NON-INSUL (F)

2.000 pc

07 N 7345001714

P 022506 c19 j19

TERMINAL #122005 14-16 NON-INSULATED

1.000 PC

08 N 7345221702

P c19 j17

TERMINAL .25"16-14 WIRE NON-INS RING

1.000 PC

09 N 7346000039

P d14 g-floor j0

TUBING .25"ID HS W/ADHESIVE - 48" LG

1.000 pc

10 N 8977500100

R b08 g04

WIRE #16GA TYPE SKL BLACK

3.000 ft

11 N 8597650002

R e-floor e22

WIRE .25" CONVOLUTED LOOM

3.000 ft

12 N 7345001747

P

FASTENERS PIGGY BACK #B51614-PBF

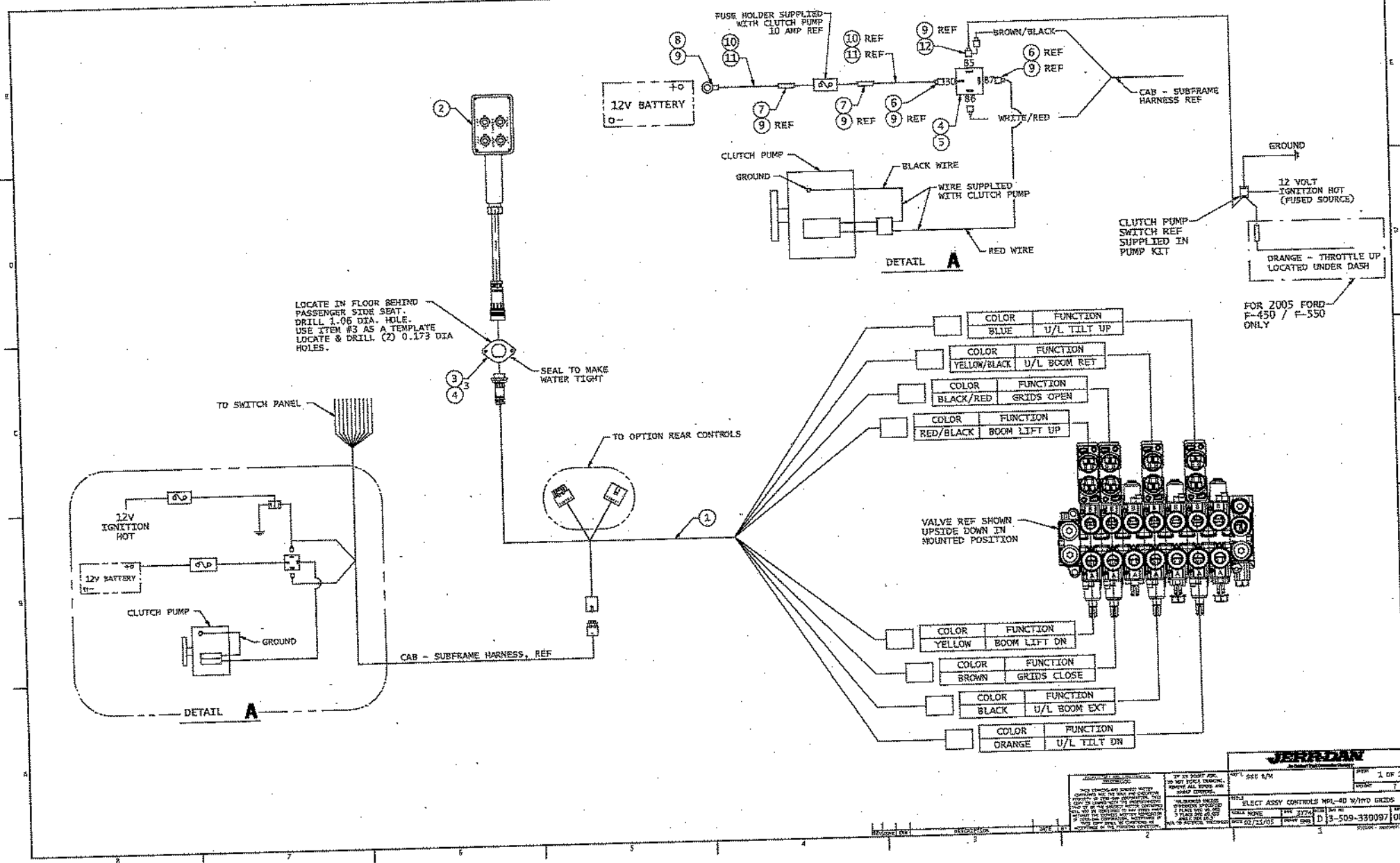
1.000 pc

*** End of Item ***

*** End of Report ***

ELECT ASSY CONTROLS MPL-40 W/HYD GRIDS

DWG NO 3-509-330097 REV 00

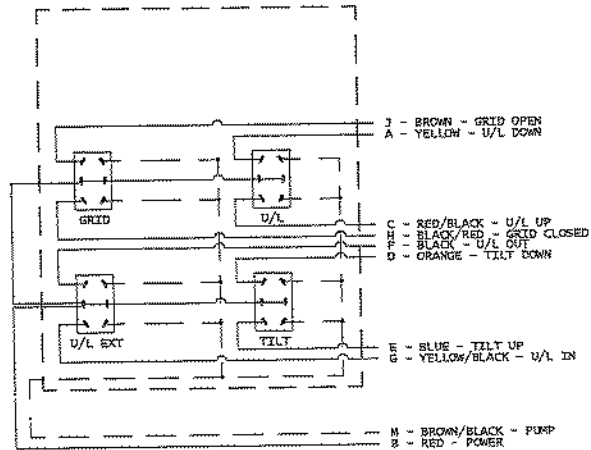


JERRARD

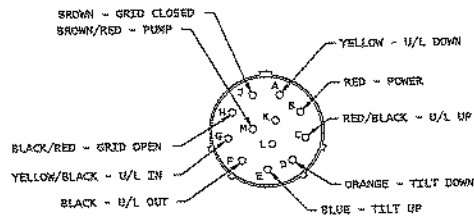
DATE	2005/05/05	REV	00
BY	3-509-330097	CHK	3-509-330097
ELECT ASSY CONTROLS MPL-40 W/HYD GRIDS		1 OF 1	

CONTROL, 8 FUNCTION WIRED REMOTE

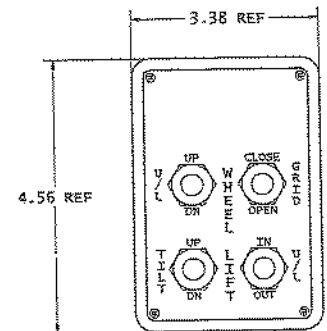
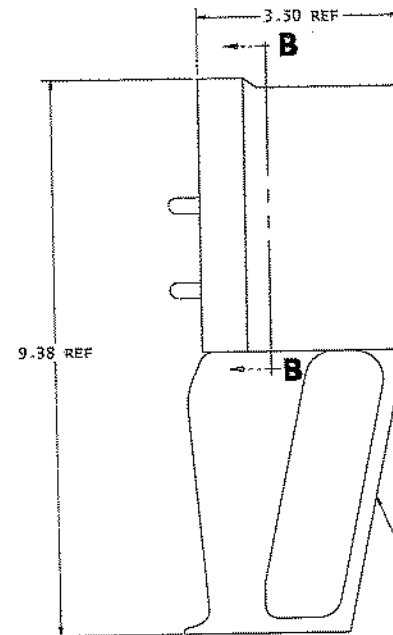
DWG NO 7-295-000062 00 REV



SECTION **B - B**
WIRING SCHEMATIC
NOT TO SCALE

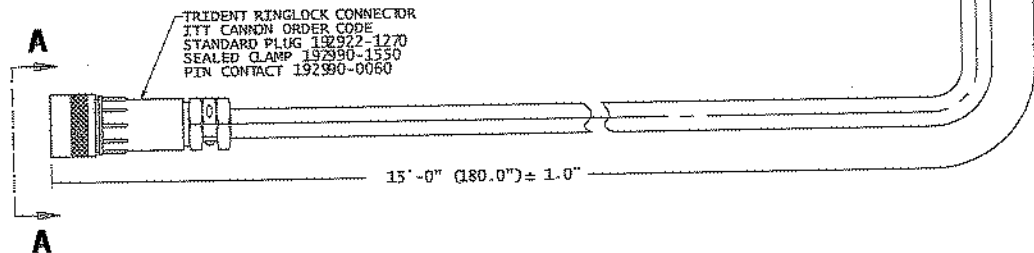


VIEW **A - A**
NOT TO SCALE



CONSTRUCTION:
- HIGH IMPACT PLASTIC SHELL
- MARINE GRADE TUGGLE SWITCHES
- WATER TIGHT CONSTRUCTION
- CABLE TO BE 18 GA/12 CONDUCTOR
RATED FOR COLD WEATHER PERFORMANCE

NOTE: ROSE ENCLOSURE P/N 29213000 OR EQUAL



VENDOR:
MOTEC INC.
PHONE: 1-800-672-8777
FAX: (630) 241-9597

JERR-DAN CORP 1000 N. 10TH ST. SUITE 100 OMAHA, NE 68102-4242 PHONE: (402) 466-1111 FAX: (402) 466-1112		SHEET 1 OF 1 DATE 12/15/03 DRAWN BY 1 CHECKED BY 1
TITLE CONTROL - 8 FUNCTION WIRED REMOTE		PART NO 7-295-000062 00

Winch Installation

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/04/05

Item: 2509900044

WINCH INSTALL DUAL HD234 MPL40

From Item: 2509900044

To Item: 2509900044

Reference: D/3774C

Last Changed Date:

Revision #0/0

BIN: WA03

UOM: PC

Quantity

1

Receive into Whse: MYPT

Ball Dr

Bin

-con Sz Component Type Location

Description

QtyPer UOM

Reference

Effectivity

=====

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=====

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01	D	3178000419	M	WA02	BRKT WELD, DUAL WINCH MOUNT HD-234	1.000	PC	-
02	3	7970000103	P	m03	WINCH #HD-234L 8000# LH WORM GEAR	1.000	PC	-
03	D	7970000104	P	m02	WINCH #HD-234R 8000# RH WORM GEAR	1.000	PC	-
04	A	7626000014	P	010204 108 m07	ORBIT MOTOR #101-1701-009 / #BP1-2295	1.000	PC	-
05	B	4062000541	M	WBPS	BAR 0.25 x 1.00 x 29.87	1.000	PC	-
06	C	3170000357	M	WA02	BOOM NOSE WELD	1.000	PC	-
07	C	3249000033	M	WA02	SHEAVE SUPPORT WELD	2.000	PC	-
08	N	7754000018	P	000107 b64 MDF	RING #5100-300 RETAINING	2.000	PC	-
09	C	3249000034	M	WA03	CABLE GUIDE ASSY	2.000	PC	-
10	A	4691000513	M	WA02	PIN 1.25 OD x 2.47	2.000	PC	-
11	A	7082000032	P	g01	BEARING 1.38 OD x 1.25 ID x 1.06 IFR	2.000	PC	-
12	3	7809000013	P	a21	SHEAVE 6.00" DIA. X 1.38 I.D.	2.000	PC	-
13	A	7754000006	P	000107 b62 c18	RING RETAINING - 1.25" DIA SHAFT	4.000	pc	-
14	N	7115160850	P	000102 a32 x01	CAPSCREW .38"-16NC x 1.00" HEX HEAD	16.000	PC	-
15	N	7950160000	P	000104 022504	LOCK WASHER .38"ID - PLATED	16.000	PC	-
16	N	7950160162	P	A97 x01	FLATWASHER .38" NOM WIDE HARDENED	28.000	pc	-
17	N	7115161250	P	000102 a35	CAPSCREW .38"-16NC X 1.50" HEX HEAD	6.000	PC	-
18	N	7660162601	P	000105 x01	LOCKNUT .38"-16NC GR5 NYLOC	6.000	pc	-
19	N	7115151050	P	000105 x01	CAPSCREW .31"-18NC X 1.25" HEX HEAD	2.000	pc	-
20	N	7950150161	P	030602 080304	FLATWASHER .31" NOM WIDE - PLATED	2.000	PC	-
21	N	7660152601	P	022603 030602	LOCKNUT .31-18NC GR5 HEX NYLOC	2.000	pc	-
22	N	7115201450	P		CAPSCREW .63"-11NC X 1.75" HEX HEAD	4.000	PC	-
23	N	7950200141	P	A100	FLATWASHER .63" NOM NARROW - PLATED	4.000	pc	-
24	N	7660202601	P	080304	LOCKNUT .63"-11NC NYLON INSERT ZINC PLAT	4.000	PC	-
25	C	7701000051	P	100902 c18 f09	PLUG 4.00 x 2.00 x 0.19 TUBE	1.000	PC	-
26		8632000002	R	e12	TRIM .25"EDGE-BLACK VINYL #1350-B-2X1/4A	1.250	FT	-

*** End of Item ***

*** End of Report ***

DWG NO	REV
2-509-900044	00



VERIFICATION OF CONTRACTOR'S INFORMATION I, <u>JOHN J. BROWN</u> , PROJECT MANAGER, HEREBY CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND CORRECT. I AM NOT PROVIDING THIS INFORMATION TO ANY OTHER PARTY WITHOUT THE WRITTEN CONSENT OF THE ABOVE PARTY. I AM NOT PROVIDING THIS INFORMATION TO ANY OTHER PARTY WITHOUT THE WRITTEN CONSENT OF THE ABOVE PARTY. I AM NOT PROVIDING THIS INFORMATION TO ANY OTHER PARTY WITHOUT THE WRITTEN CONSENT OF THE ABOVE PARTY.		VERIFICATION OF CONTRACTOR'S INFORMATION I, <u>JOHN J. BROWN</u> , PROJECT MANAGER, HEREBY CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND CORRECT. I AM NOT PROVIDING THIS INFORMATION TO ANY OTHER PARTY WITHOUT THE WRITTEN CONSENT OF THE ABOVE PARTY. I AM NOT PROVIDING THIS INFORMATION TO ANY OTHER PARTY WITHOUT THE WRITTEN CONSENT OF THE ABOVE PARTY. I AM NOT PROVIDING THIS INFORMATION TO ANY OTHER PARTY WITHOUT THE WRITTEN CONSENT OF THE ABOVE PARTY.	
DATE OF BIDDING: <u>07/13/95</u> DATE OF AWARD: <u>07/13/95</u> DATE OF COMPLETION: <u>07/13/95</u>		DATE OF BIDDING: <u>07/13/95</u> DATE OF AWARD: <u>07/13/95</u> DATE OF COMPLETION: <u>07/13/95</u>	

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/04/05

Item: 3249000034

CABLE GUIDE ASSY

From Item: 3249000034

To Item: 3249000034

Last Changed Date:

Reference: C/3774C

Revision #0/1/3774

BIN: WA03

UOM: PC

Quantity

1

Receive into Whse: MYPT

Ball Dr

Bin

-oon Sz Component Type Location

Description

QtyPer UOM

Reference

Effectivity

---	==	=====	=====	=====	=====	=====	=====
01	B	4811000760	M	WA02	SHEET 11GA x 8.13 x 9.25	2.000	PC
02	A	4706004851	M	WA02	PLATE 0.25 x 1.19 x 1.69	2.000	PC
03	B	4706004852	M	WA02	PLATE 0.25 x 1.56 x 4.66	1.000	PC
04	N	7115141664	P		CAPSCREW 0.25-20 UNC x 2.00 CARRIAGE	3.000	PC
05	N	7660142604	P	000102 a03	LOCKNUT .25"-20NC NYLOK STAINLESS	3.000	pc
06		7950140153	P		FLAT WASHER .25 NOM WIDE S/S	3.000	PC

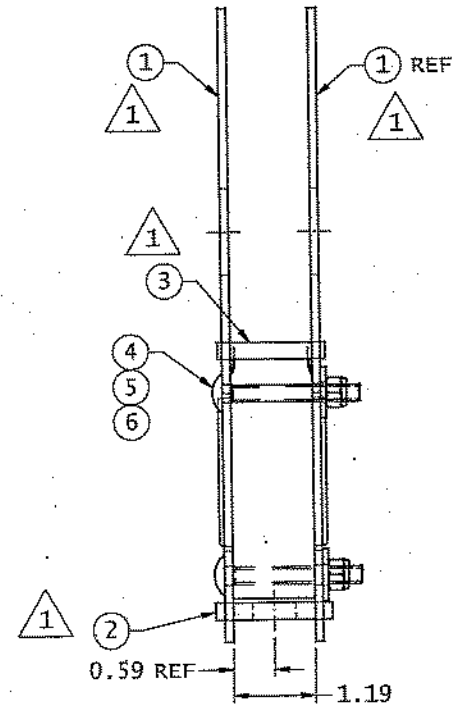
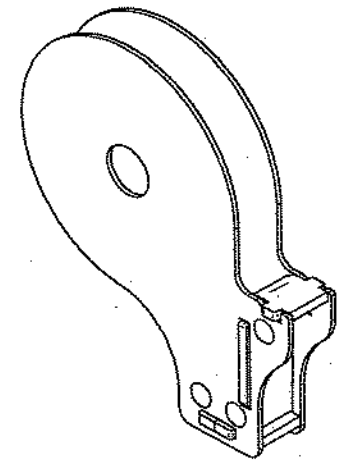
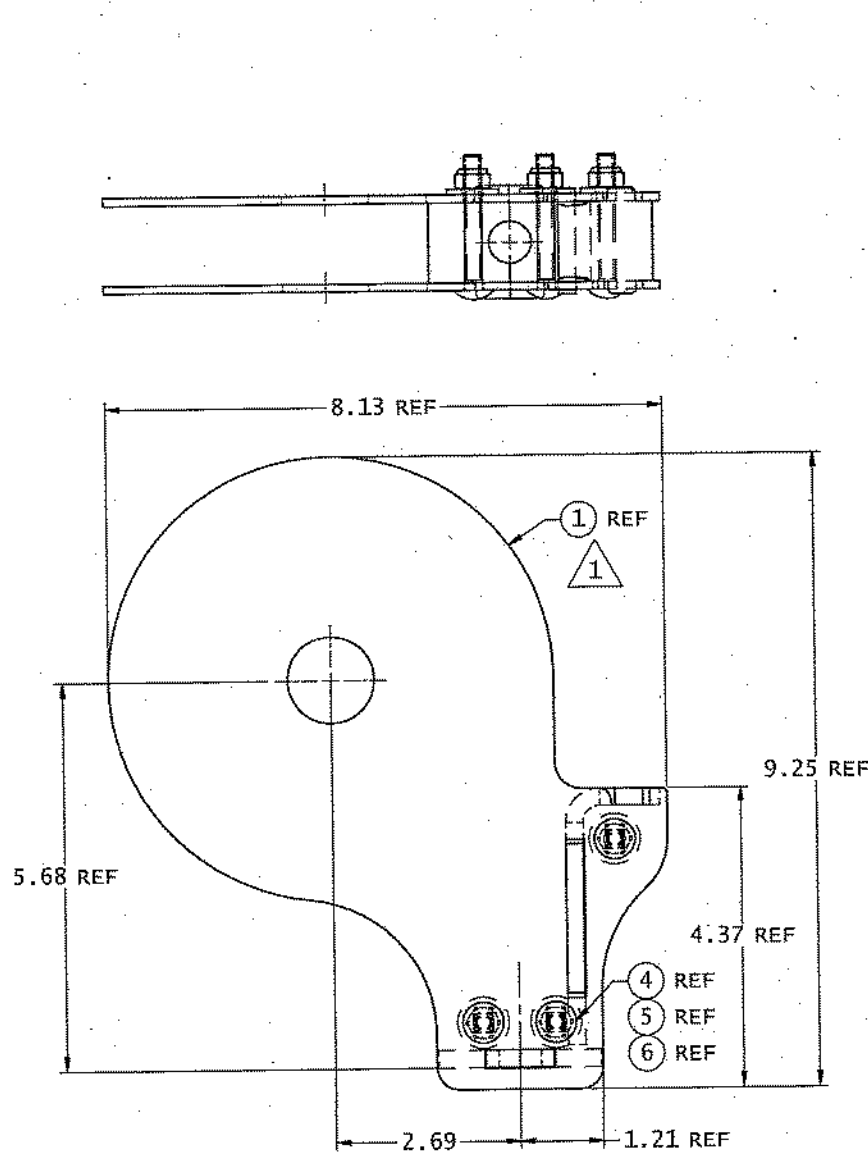
*** End of Item ***

*** End of Report ***

CABLE GUIDE ASSEMBLY

DWG NO
3-249-000034

REV
01



JERR-DAN CORP
3080 HYDEK ROAD GREENCASTLE, PA 17225

MAT'L SEE B/M
SHEET 1 OF 1
WEIGHT C 3.75#

TITLE
CABLE GUIDE ASSEMBLY

SCALE 0.75
DATE 12/20/04
SMB
C 3-249-000034 01

01	X-X	3774	PICTURE CHANGE TO ITEMS 1, 2 & 3, REMOVED NYLATRON CABLE GUIDE 4-249-000006, ITEM 4 7-111-141664 WAS 7-114-141430	12/20/04	RMP
REVISION	BY	DATE	DESCRIPTION	DATE	BY

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TOLERANCES UNLESS OTHERWISE SPECIFIED
2 PLACE DEC .002
3 PLACE DEC .001
ANGLE DIM .015°
N/A TO MATERIAL THICKNESS

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/04/05

Item: 2509900053

WINCH INST SINGLE WARN PLANETARY

From Item: 2509900053

To Item: 2509900053

Reference: D/3774C

Last Changed Date:

Revision #0/0

BIN: WA03

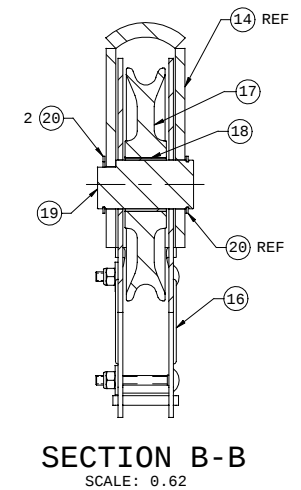
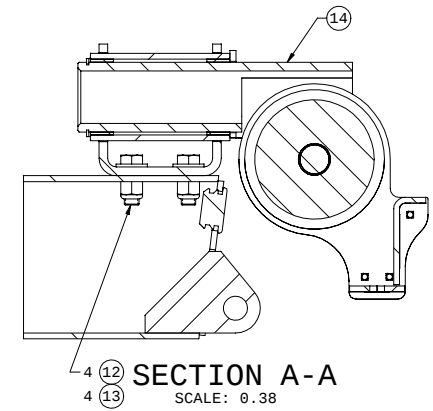
UOM: PC

Quantity			1	Receive into Whse: MYPT		Revision #0/0		BIN: WA03		UOM: PC	
Ball Dr	Bin										
-oon Sz Component Type Location	Description		QtyPer	UOM	Reference	Effectivity					
==== == =====	=====		=====	=====	=====	=====					
01	C	3178000436	M	WA02	BRACKET WELD WARN WINCH MOUNT	1.000	PC	-			
02	3	7970000120	P	n01	WINCH 9000# PLANETARY WARN #69180	1.000	PC	-			
03	N	7115161250	P	000102 a35	CAPSCREW .38"-16NC X 1.50" HEX HEAD	4.000	PC	-			
04	N	7950160162	P	A97 x01	FLATWASHER .38" NOM WIDE HARDENED	8.000	pc	-			
05	N	7660162601	P	000105 x01	LOCKNUT .38"-16NC GR5 NYLOC	4.000	pc	-			
06	B	4062000541	M	WBPS	BAR 0.25 x 1.00 x 29.87	1.000	PC	-			
07	N	7115151050	P	000105 x01	CAPSCREW .31"-18NC X 1.25" HEX HEAD	2.000	pc	-			
08	N	7950150161	P	030602 080304	FLATWASHER .31" NOM WIDE - PLATED	4.000	PC	-			
09	N	7660152601	P	022603 030602	LOCKNUT .31-18NC GR5 HEX NYLOC	2.000	pc	-			
10	C	3170000358	M	WA02	BOOM WELD NOSE SINGLE	1.000	PC	-			
11	N	7115201450	P		CAPSCREW .63"-11NC X 1.75" HEX HEAD	4.000	PC	-			
12	N	7950200141	P	A100	FLATWASHER .63" NOM NARROW - PLATED	4.000	pc	-			
13	N	7660202601	P	080304	LOCKNUT .63"-11NC NYLON INSERT ZINC PLAT	4.000	PC	-			
14	C	3249000033	M	WA02	SHEAVE SUPPORT WELD	1.000	PC	-			
15	N	7754000018	P	000107 b64 MDF	RING #5100-300 RETAINING	1.000	PC	-			
16	C	3249000034	M	WA03	CABLE GUIDE ASSY	1.000	PC	-			
17	3	7809000013	P	a21	SHEAVE 6.00" DIA. X 1.38 I.D.	1.000	PC	-			
18	A	7082000032	P	g01	BEARING 1.38 OD x 1.25 ID x 1.06 IFR	1.000	PC	-			
19	A	4691000513	M	WA02	PIN 1.25 OD x 2.47	1.000	PC	-			
20	A	7754000006	P	000107 b62 c18	RING RETAINING - 1.25" DIA SHAFT	2.000	pc	-			
21	C	7701000051	P	100902 c18 f09	PLUG 4.00 x 2.00 x 0.19 TUBE	1.000	PC	-			
22		8632000002	R	e12	TRIM .25"EDGE-BLACK VINYL #1350-B-2X1/4A	.500	FT	-			

*** End of Item ***

*** End of Report ***

DWG NO	REV
2-509-900053	01



01		X-X	3870	PICTURE CHANGE TO ITEM #10		8/17/05	RHM	WITHOUT THE EXPRESS WRITTEN PERMISSION OF JEROME CORPORATION, ACCEPTANCE OF THIS COPY SHALL BE CONSIDERED AS ACCEPTANCE OF THE FORGING CONDITION.		3 PLACE DEC 10, 015 ANGLE DIM 10.5° N/A TO MATERIAL THICKNESS	SCALE 3:16 DATE 1/19/05	ERN 3774 DRAWN BSK	SIZE ENG NO D 2-509-900053	REV 01
REV		X		DESCRIPTION		DATE	BY							
2								2						8/22/05 - J58800053-01-02E

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/04/05

Item: 3249000034

CABLE GUIDE ASSY

From Item: 3249000034

To Item: 3249000034

Last Changed Date:

Reference: C/3774C

Revision #0/1/3774

BIN: WA03

UOM: PC

Quantity

1

Receive into Whse: MYPT

Ball Dr

Bin

-oon Sz Component Type Location

Description

QtyPer UOM

Reference

Effectivity

01 B 4811000760

M WA02

SHEET 11GA x 8.13 x 9.25

2.000 PC

-

02 A 4706004851

M WA02

PLATE 0.25 x 1.19 x 1.69

2.000 PC

-

03 B 4706004852

M WA02

PLATE 0.25 x 1.56 x 4.66

1.000 PC

-

04 N 7115141664

P

CAPSCREW 0.25-20 UNC x 2.00 CARRIAGE

3.000 PC

-

05 N 7660142604

P 000102 a03

LOCKNUT .25"-20NC NYLOK STAINLESS

3.000 pc

-

06 7950140153

P

FLAT WASHER .25 NOM WIDE S/S

3.000 PC

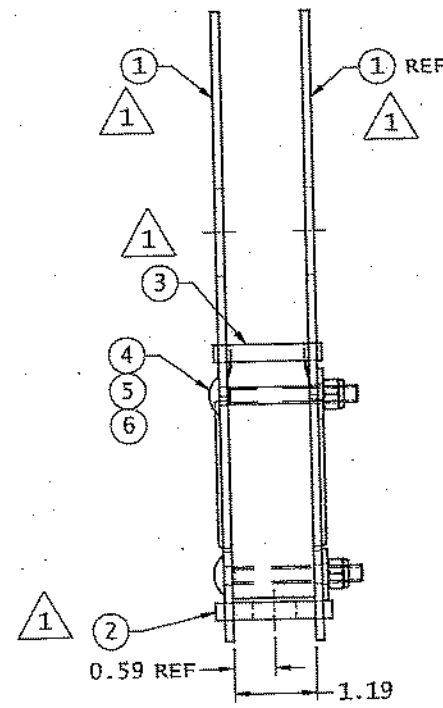
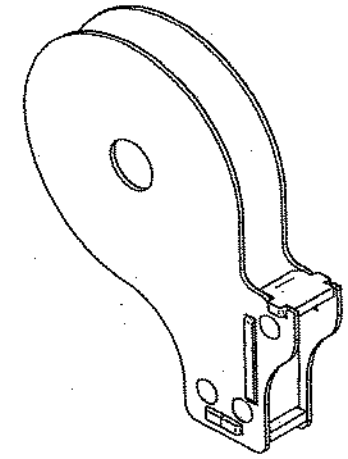
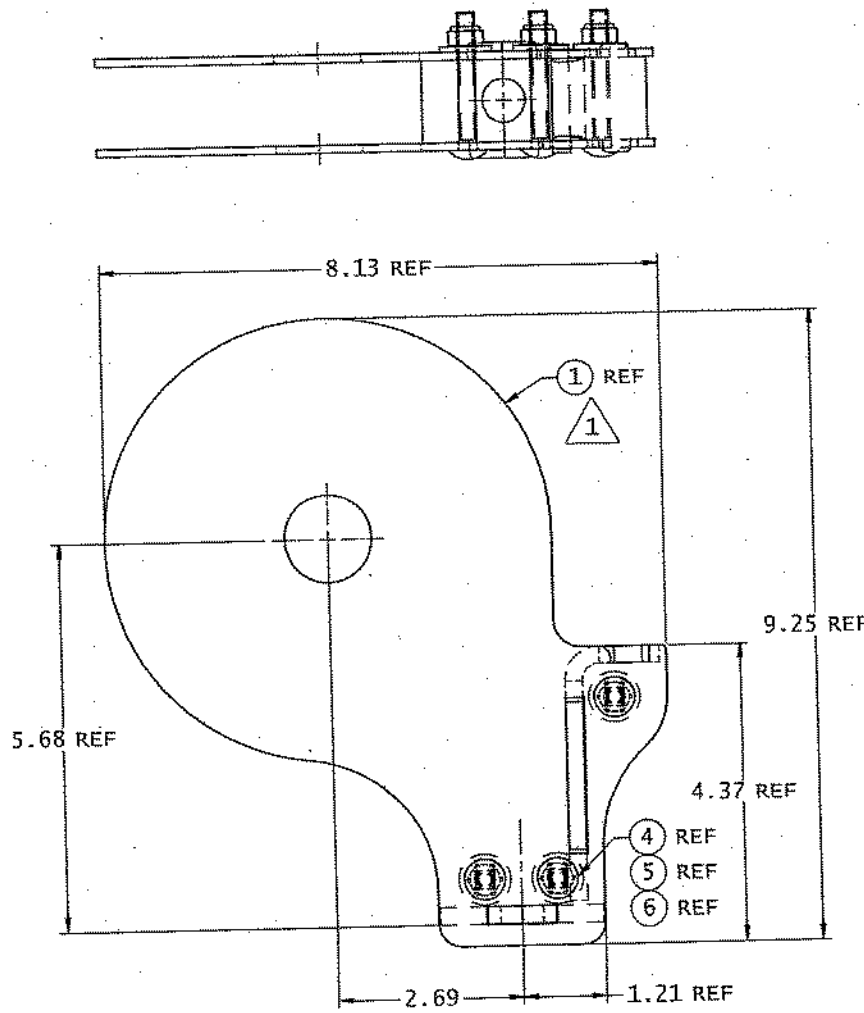
-

*** End of Item ***

*** End of Report ***

CABLE GUIDE ASSEMBLY

DWG NO 3-249-000034 REV 01



REV	DATE	BY	DESCRIPTION
01	12/20/04	SM	REMOVED NYLATRON CABLE GUIDE 4-249-000005, ITEM 4 7-111-141684 WAS 7-114-141650

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IF IN DOUBT ASK.
DO NOT SCALE DRAWING.
REMOVE ALL BORDERS AND GRAY COLORED AREAS.

TOLERANCES UNLESS OTHERWISE SPECIFIED
2 PLACE DEC ±0.002
7 PLACE DEC ±0.0001
ANGLE DIM ±0.1°
N/A TO MATERIAL THICKNESS

JERR-DAN CORP 1080 RYAN ROAD GREENCASTLE, PA 17225			
WAT'S SEE B/M		SHEET 1 OF 1	
TITLE CABLE GUIDE ASSEMBLY		WEIGHT C 3.75#	
SCALE 0.75	ERN 3774	DWG NO	REV
DATE 12/20/04	DRAWN SMS	C 3-249-000034	01

Winch Cable

CABLE 3/8 DIA X 110 W/ 2T HOOK 6X25 EIPS

DWG NO

7-248-000111

REV

00

REV	ZONE	ERN	DESCRIPTION	DATE	BY
1		3774	NOM. BREAKING STRENGTH WAS 12,000#	1/5/05	BSK

CABLE 3/8" DIA. X 110' LONG (6X25 EIPS RRL IWRC)
 EXTRA IMPROVED PLOW STEEL, RIGHT REGULAR LAY,
 INDEPENDENT WIRE ROPE CORE, BRIGHT WIRE ROPE ASSEMBLY
 NOMINAL BREAKING STRENGTH 15,100# 

SUPPLIED WITH A GALVANIZE 2-TON RATED WLL (PROOF LOAD
 2X WLL) EYE HOOK W/ SAFETY LATCH (#S320C OR EQUIVALENT)

ATTACHED WITH FLEMISH EYE CONSTRUCTION, HEAVY DUTY
 THIMBLE AND STEEL SLEEVE

JERR-DAN CORP

1080 HYKES ROAD GREENCASTLE, PA 17225

<u>PROPRIETARY AND CONFIDENTIAL INFORMATION:</u> THIS DRAWING AND SUBJECT MATTER CONTAINED ARE THE SOLE AND EXCLUSIVE PROPERTY OF JERR-DAN CORPORATION. THIS COPY IS LOANED WITH THE UNDERSTANDING THAT IT OR THE SUBJECT MATTER CONTAINED WILL NOT BE DISCLOSED TO ANY OTHER PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF JERR-DAN CORPORATION. ACCEPTANCE OF THIS COPY SHALL BE CONSTRUED AS ACCEPTANCE OF THE FORGING CONDITION.	IF IN DOUBT ASK. DO NOT SCALE DRAWING. REMOVE ALL BURRS AND SHARP CORNERS.	MAT'L SEE ABOVE		SHEET 1 OF 1	
		TITLE CABLE 3/8 DIA X 110 W/ 2T HOOK 6X25 EIPS		WEIGHT ? #	
	TOLERANCES UNLESS OTHERWISE SPECIFIED 2 PLACE DEC ± 0.062 3 PLACE DEC ± 0.015 ANGLE DIM $\pm 0.5^\circ$ N/A TO MATERIAL THICKNESS	SCALE NONE	ERN 3759	SIZE A	DWG NO 7-248-000111
		DATE 10/7/04	DRAWN BSK	REV 00	

Underlift Installation

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 12/21/05

Item: 2170000068

U/L BOOM INSTL HYD FIXED GRID (NO LUBE)

From Item: 2170000068

To Item: 2170000068

Reference: D/3774B

Last Changed Date:

Revision #0/4/3907

BIN: WA03

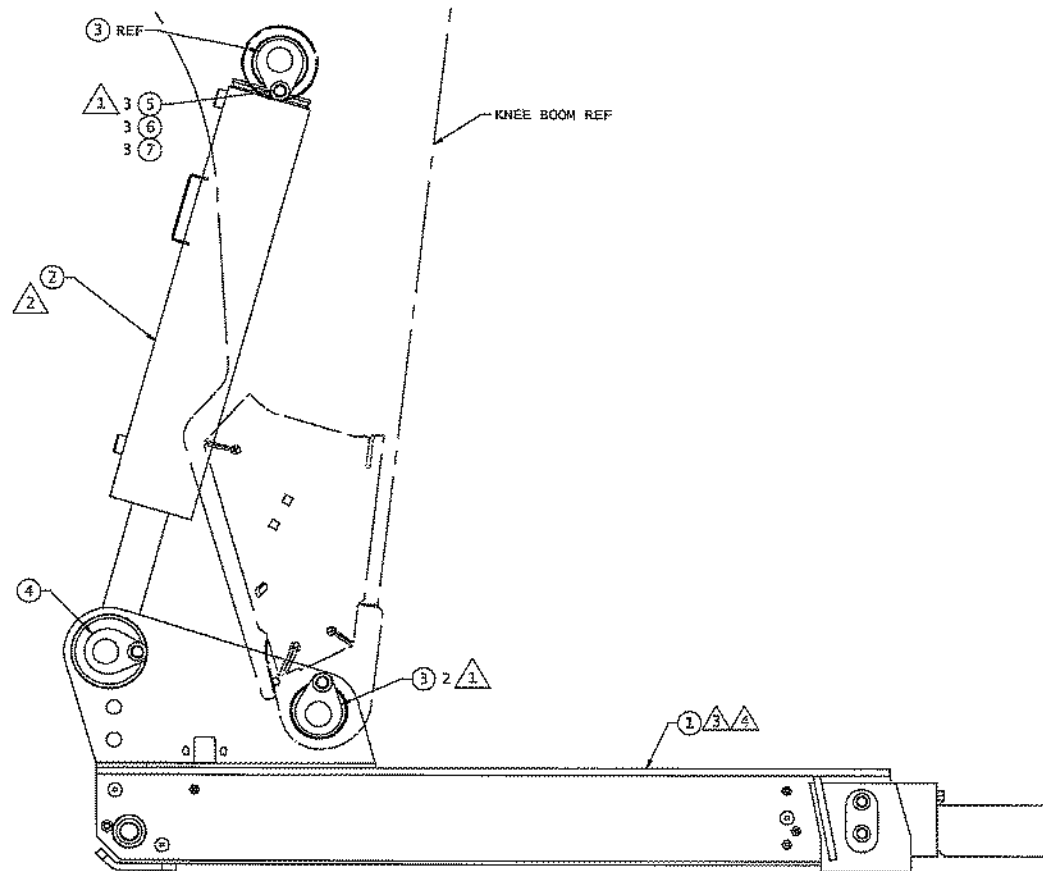
UOM: PC

Quantity	1	Receive into Whse: MYPT							
Ball Dr	Bin								
-oon Sz Component Type Location	Description								
=== == =====	=====								
01 D 3170000368	M WA00	BOOM ASSY HYD FIXED GRID UL (NO-LUBE)		1.000	PC				
02 C 3320000150	M WA00	CYLINDER ASSY 4.00/2.00 X 27.88-44.94		1.000	PC				
03 B 3691000242	M WA00	PIN WELD 2.00 DIA x 7.88		2.000	PC				
04 B 3691000236	M WA02	PIN WELD 2.00 DIA x 5.00		1.000	PC				
05 N 7950160161	P 000104 14ASB M	FLATWASHER .38" NOM WIDE - PLATED		3.000	PC				
06 N 7115160850	P 000102 AD00B M	CAPSCREW .38"-16NC x 1.00" HEX HEAD		3.000	PC				
07 N 7950160000	P 000104 022504	LOCK WASHER .38"ID - PLATED		3.000	PC				

*** End of Item ***

*** End of Report ***

DWG NO	REV
2-170-000068	04

[illegible]

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 12/21/05

Item: 3170000368

BOOM ASSY HYD FIXED GRID UL (NO-LUBE)

From Item: 3170000368

To Item: 3170000368

Reference: D/3775

Last Changed Date: 11/21/05

Revision #A/2/3907

BIN: WA00

UOM: PC

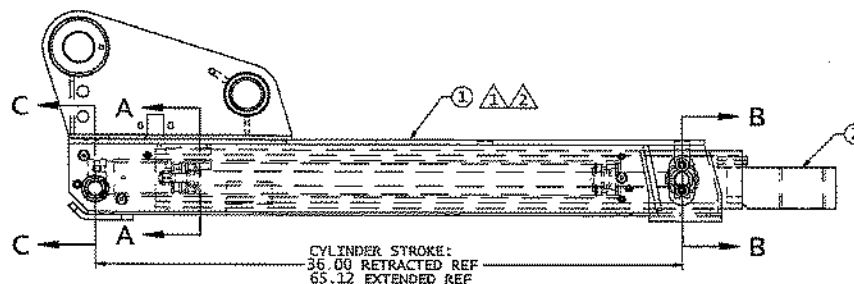
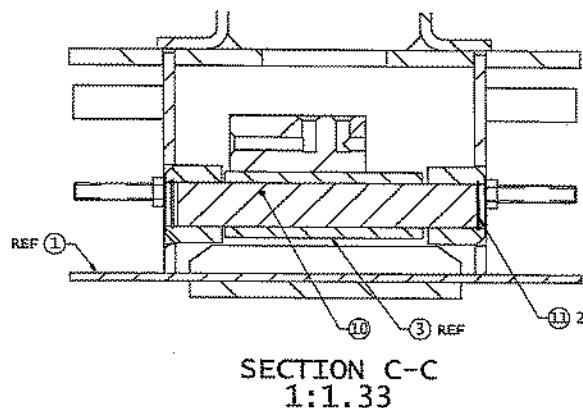
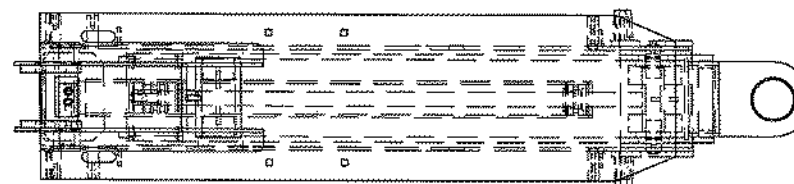
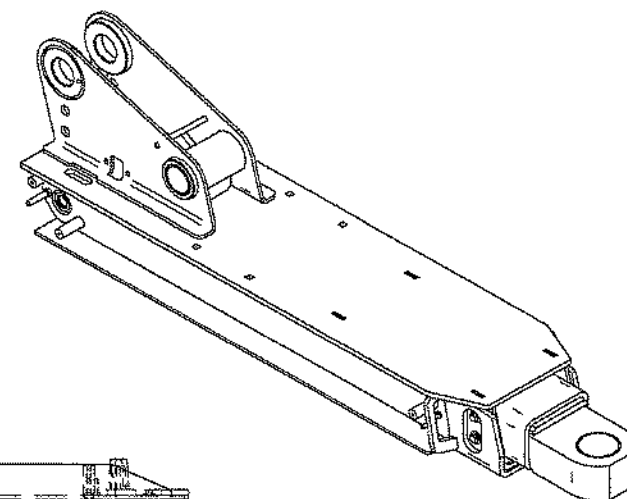
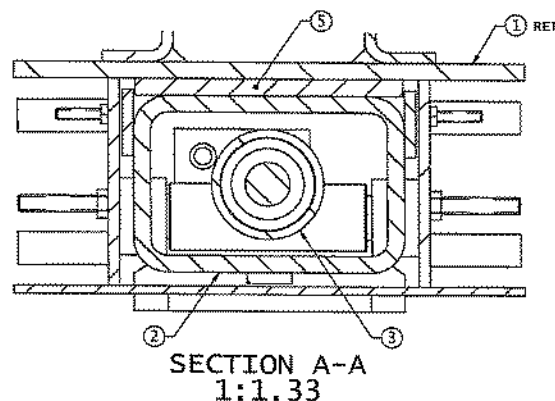
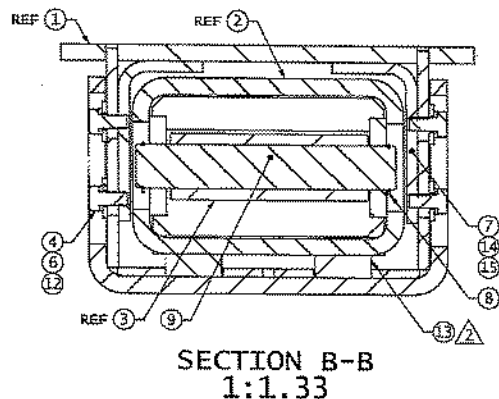
Quantity		1	Receive into Whse: MYPT		Revision #A/2/3907	BIN: WA00	UOM: PC
Ball Dr	Bin						
-con Sz Component Type Location	Description	QtyPer	UOM	Reference	Effectivity		
==== == =====	=====	=====	====	=====	=====		
01 D 3170000367	M WA00	BOOM WELD BASE FIXED GRID UL (NO-LUBE)	1.000	PC	-		
02 C 3170000346	M WA00	BOOM WELD INNER FIXED GRID UL (NO-LUBE)	1.000	PC	-		
03 C 3320000148	M 110101 WA00	CYLINDER ASSY 2.13/1.00 X 36.00-65.12	1.000	PC	-		
04 N 7950150161	P 022603 080304	FLATWASHER .31" NOM WIDE - PLATED	4.000	PC	-		
05 B 4679000046	P 020105 050105	PAD 0.38 X 3.00 X 5.94 WEAR	1.000	PC	-		
06 N 7105150550	P 000102 WA00D	CAPSCREW .31"-24NF X .63" HEX HEAD	4.000	PC	-		
07 B 4062000455	M 102001 WBPS	BAR 0.25 x 1.00 x 5.00	2.000	PC	-		
08 * 7754000019	P 000107 b65 WA0	RING 1.00" SHAFT DIA RETAINING	2.000	pc	-		
09 B 4691000307	M 021006 WA00	PIN 1.00 DIA x 5.75	1.000	ea	-		
10 B 4691000308	M 021006 WA00	PIN 1.00 DIA x 6.62	1.000	ea	-		
11 N 7754000056	P 080306 c19	SNAP RING 1" INTERNAL	2.000	pc	-		
12 N 7950150000	P 080304 MDFLB M	WASHER .31" NOM REG LOCK - PLATED	4.000	PC	-		
13 A 4679000213	M 022404 WA00	PAD 0.50 x 1.25 x 3.50 NSM NYLATRON	2.000	PC	3907	12/12/05-	
14 A 4812000067	M 022305 WA00	UNDERLIFT SHIM 14GA X .94 X 2.94	2.000	PC	-		
15 A 4812000068	M 022305 WA00	SHIM 16GA x 0.94 x 2.94	2.000	PC	-		

*** End of Item ***

*** End of Report ***

BOOM ASSY HYD FIXED GRID UL (NO-LUBE)

BUG NO 3-170-000368 REV 02



NOTE:

BRUSH A LIBERAL COAT OF ANTI-SEIZE COMPOUND TO ALL PIN & BUSHING, METAL TO METAL, CONTACT SURFACES UPON INSTALLATION.

WILLER-DAN CORP 1000 W. 10th St., Des Moines, IA 50319 (515) 281-1111		DATE: 12/28/04 DRAWN: D CHECKED: D APPROVED: D
TO: DES MOINES FROM: SEE BOM TITLE: BOOM ASSY HYD FIXED GRID UL (NO-LUBE) SCALE: 1:1 SHEET: 1 OF 1	1000 W. 10th St., Des Moines, IA 50319 (515) 281-1111	DATE: 12/28/04 DRAWN: D CHECKED: D APPROVED: D

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.
Effective as of 07/25/05
*Item: 3320000150

CYLINDER ASSY 4.00/2.00 X 28.19-45.25

From Item: 3320000150
To Item: 3320000150
Last Changed Date: 09/28/0

Reference: C/3774B

Revision #0/1/3774

BIN: WA00

UOM: PC

Quantity 1

Receive into Whse: MYPT

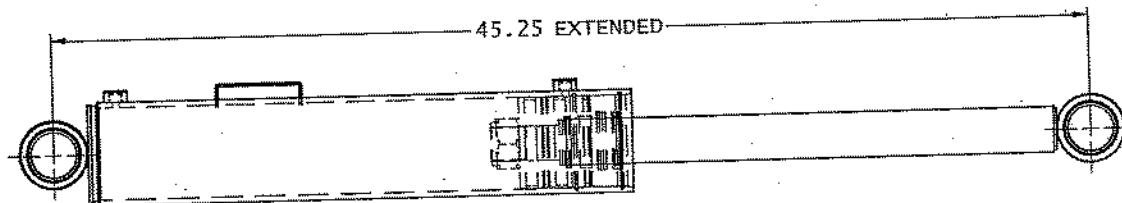
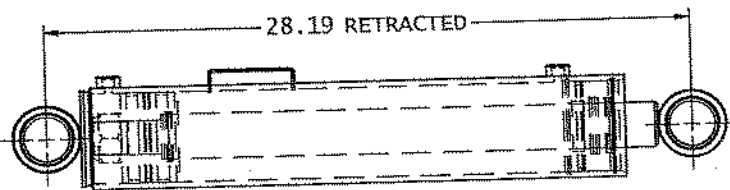
Ball Dr	Bin	Description	QtyPer	UOM	Reference	Effectivity
-oon Sz Component Type Location			=====	===	=====	=====
01 D 3071000135	M CC05	BARREL WELD "3150"	1.000	PC		-
02 C 3763000143	M CC05	ROD WELD "3150"	1.000	PC		-
03 B 3698000002	P	PISTON ASSY 4.00 BORE x 2.00 ROD	1.000	PC		-
04 B 3553000012	P	HEAD ASSY 4.00 BORE x 2.00 ROD	1.000	PC		-
05 A 7754000013	P b63	RING RETAINING 4" #1300-400	1.000	PC		-
06 A 7661000035	P 000105 d07	NUT 1.50"-12NF NYLON INSERT HEX	1.000	PC		-
07 7754000028	P b66	RING RETAINING SMALLY WHM 400	1.000	PC		-
08 A 7082000029	P g01	BEARING 2.25 OD X 2.00 ID X 1.50 IFR	4.000	PC		-

*** End of Item ***

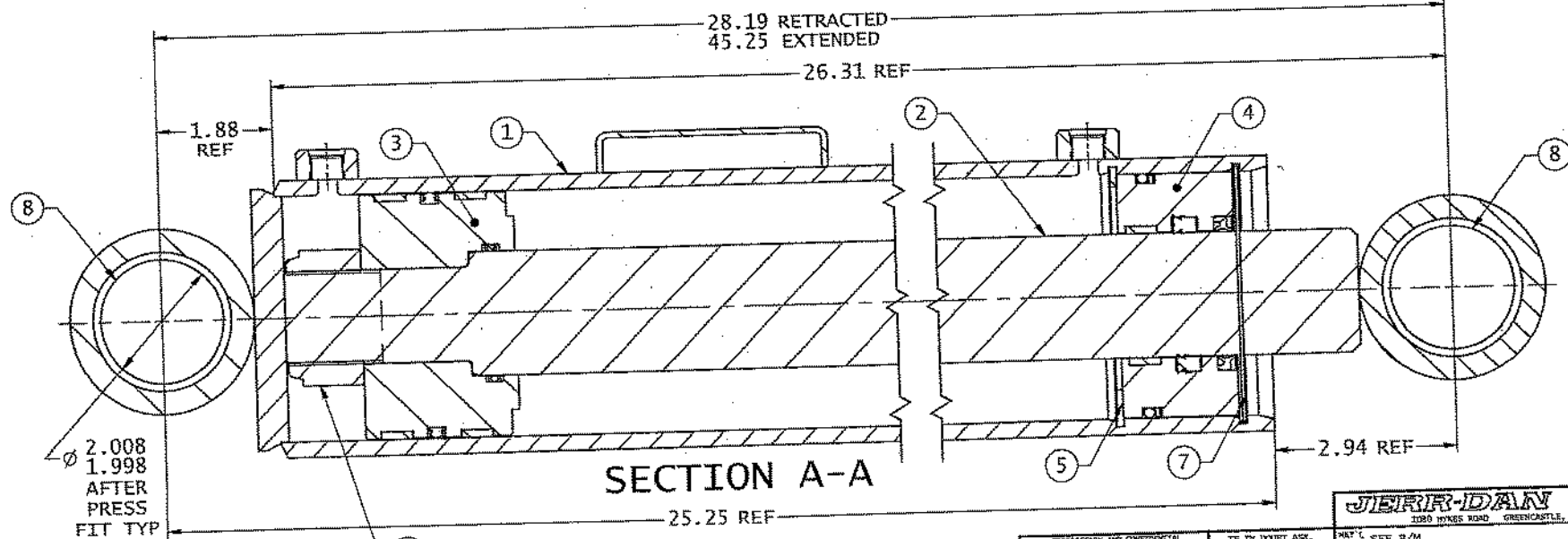
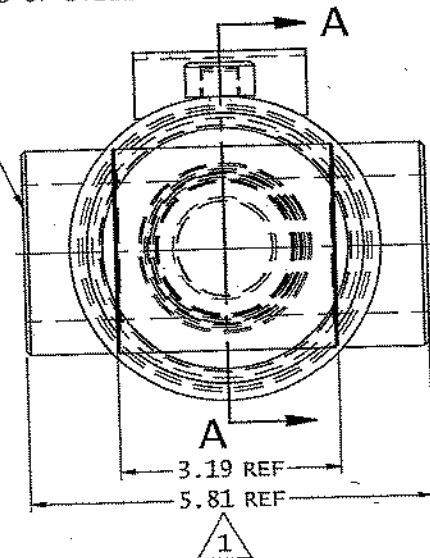
*** End of Report ***

CYLINDER ASSY 4.00/2.00 X 28.19-45.25

DWG NO 3-320-000150 REV 01



INSTALL BEARINGS
(ITEM #8) FLUSH WITH
ENDS OF STEEL BUSHINGS



NOTE:
PLUG PORTS FOR STORAGE

INSTALL NUT WITH
LOCTITE 262
TORQUE NUT TO
740 TO 780 FT-LBS

0113-C15774 OF DATED VIEWS PER REV. 5. ST. WAS 6.00 3/7/05 RSK
REVISIONS BY DATE BY

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SHARP CORNERS.

JERR-DAN CORP
1080 HYKES ROAD GREENCASTLE, PA 17225

SCALE 3:4 DWG NO 3-320-000150

DATE 09/28/04 DRAWN STK C

1 OF 1
WEIGHT E 68

***** Engineering Bill of Materials for ALTERNATE Route *****

** Report Excludes Shrinkage.

Effective as of 07/26/05

Item: 3698000002

PISTON ASSY 4.00 BORE x 2.00 ROD

Reference: B/2962-A

From Item: 3698000002

To Item: 3698000002

Last Changed Date: 08/11/00

Alternate Route #A215016

Quantity 1

Receive into Whse: HYKS

Revision #0/0

BIN:

UOM: PC

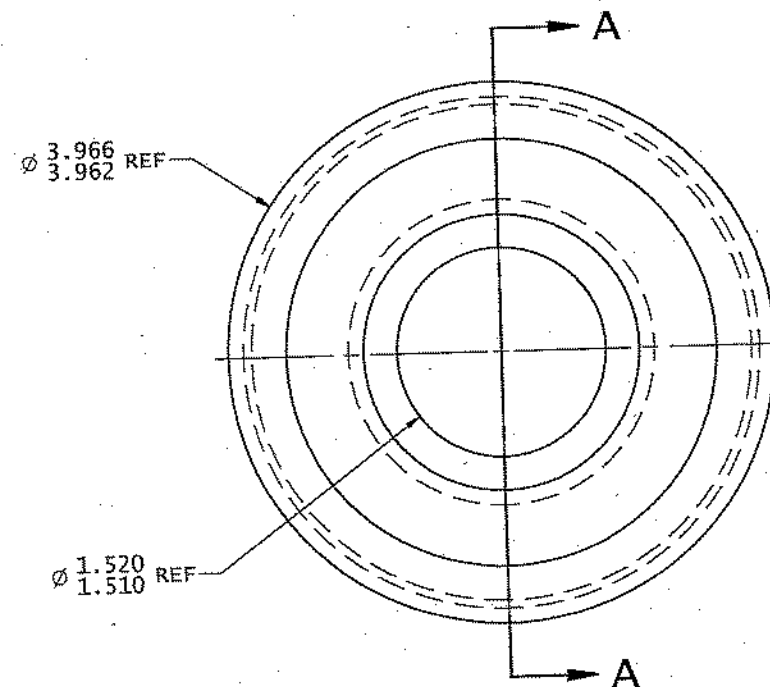
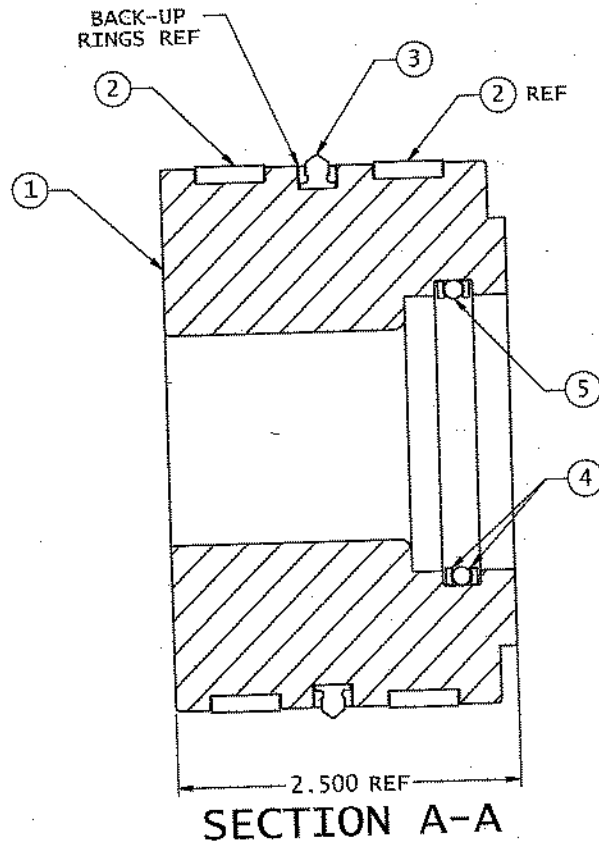
Seq	Ball Dr	Bin	Description	QtyPer	UOM	Reference	Effectivity
No.	-oon Sz	Component Type	Location				
1	01	B 4698000008	P 1010	PISTON 4.00 BORE X 2.00 ROD X 2.50 LG	1.000	pc	-
2	02	A 7754000011	P J38	RING WEAR PISTON 4.00" BORE	2.000	pc	-
3	03	A 7796000065	P	SEAL PISTON LOCKING T 4.00" BORE	1.000	PC	-
4	04	N 7755226609	P	RING BACK-UP PISTON 2.00" ROD	2.000	pc	-
5	05	N 7755226000	P	RING "O" PISTON 2.00" ROD	1.000	pc	-

*** End of Item ***

*** End of Report ***

PISTON ASSY (4.00 BORE CYLINDER)

DWG NO 3-698-000002 REV 02



JERR-DAN CORP
1001 JONES ROAD GREENCASTLE, PA 15225

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MEANS, ELECTRONIC OR MECHANICAL,
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OR BY ANY INFORMATION STORAGE AND
RETRIEVAL SYSTEM, WITHOUT THE WRITTEN
PERMISSION OF JERR-DAN CORPORATION. ACCEPTANCE OF
THIS COPY SHALL BE CONSIDERED AS
ACCEPTANCE OF THE FOREGOING CONDITIONS.

IF IN DOUBT ASK
DO NOT SCALE DRAWING.
REMOVE ALL BURS AND
SHARP CORNERS.
TOLERANCES UNLESS
OTHERWISE SPECIFIED
2 PLACE DEC ±0.002
3 PLACE DEC ±0.003
ANGLE DIM ±0.5°
N/A TO MATERIAL, TOLERANCES

MATERIAL SEE B/M		SHEET 1 OF 1	
WEIGHT E 6.00#			
TITLE PISTON ASSY (4.00 BORE CYLINDER)			
SCALE 3:2	DRN 2962	SIZE 1/2" X 1/2"	DWG NO
DATE 02/09/00	DRN VLM	C	3-698-000002 02

02	ALL 3698 REDRAWN IN SOLID EDGE (3D/2D)	02/18/04	BY
REVISION	DESCRIPTION	DATE	BY

10/28/05 - 00000002-02.dwg

***** Engineering Bill of Materials for ALTERNATE Route *****

** Report Excludes Shrinkage.

Effective as of 08/04/05

Item: 3553000012

HEAD ASSY 4.00 BORE x 2.00 ROD

From Item: 3553000012

To Item: 3553000012

Last Changed Date: 08/11/00

Reference: B/2962-A

Revision #0/0

BIN:

UOM: PC

Alternate Route #A215022

Quantity

1

Receive into Whse: HYKS

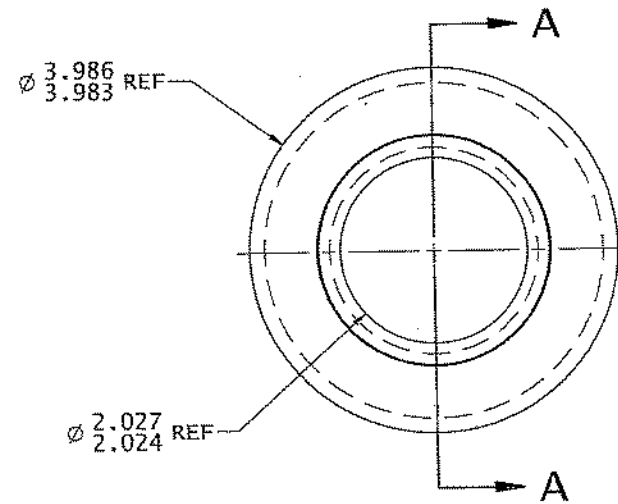
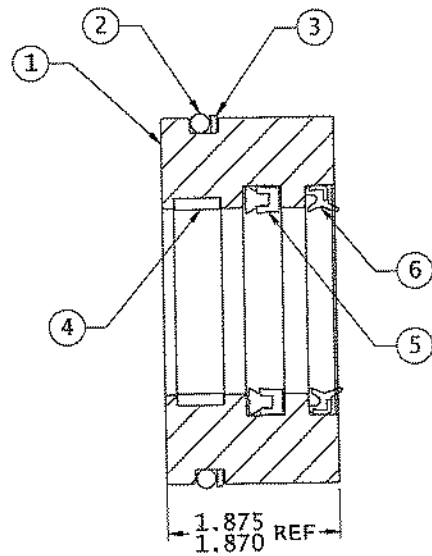
Seq	Ball Dr	Bin	No.	-oon	Sz	Component	Type	Location	Description	QtyPer	UOM	Reference	Effectivity
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1	01	B	4553000009	P	1010	HEAD 4.00 BORE X 2.00 ROD X 1.88 LG				1.000	pc		-
2	02	N	7755342000	P		RING "O" HEAD GLAND 4.00" BORE				1.000	pc		-
3	03	A	7755342609	P		RING BACK-UP HEAD GLAND 4.00" BORE				1.000	pc		-
4	04	A	7754000012	P		RING WEAR HEAD 2.00" ROD				1.000	pc		-
5	05	A	7796000025	P		SEAL ROD 2.00"				1.000	pc		-
6	06	A	7796000011	P		SEAL WIPER 2.00" ROD				1.000	pc		-

*** End of Item ***

*** End of Report ***

HEAD ASSY (4.00 BORE CYLINDER)

DWG NO 3-553-0012 REV 02



SECTION A-A

JERR-DAN CORP
1080 RYKES ROAD GREENCASTLE, PA 15225

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IF IN DOUBT ASK.
DO NOT SCALE DRAWING.
REMOVE ALL BURRS AND SHARP CORNERS.
TOLERANCES UNLESS OTHERWISE SPECIFIED
2 PLACE DEC 20.002
3 PLACE DEC 20.015
ANGLE DIM $\pm 0.5^\circ$
N/A TO MATERIAL THICKNESS

NAT'L SEE B/M		SHEET 1 OF 1	
WEIGHT A 3.98#			
TITLE HEAD ASSY (4.00 BORE CYLINDER)			
SCALE 1:1	DRN Z962	CHK ENG NO	REV
DATE 2/3/00	DRAWN VLM	C 3-553-000012	02

02/18/04/STK
REVIZONE/ERR
DESCRIPTION
DATE BY

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 07/25/05

Item: 3320000148

CYLINDER ASSY 2.13/1.00 X 36.00-65.12

From Item: 3320000148

To Item: 3320000148

Last Changed Date:

Reference: C/3775

Revision #0/0

BIN: 110101

UOM: PC

Quantity

1

Receive into Whse: SERV

Ball Dr

Bin

-oon Sz Component Type Location

Description

QtyPer UOM

Reference

Effectivity

01 D 3071000133

M CC05

BARREL WELD "3148"

1.000 PC

02 C 3763000142

M CC05

ROD WELD "3148"

1.000 PC

03 B 3698000005

P

PISTON ASSY 2.125 BORE x 1.00 ROD

1.000 PC

04 C 3553000015

P

HEAD ASSY 2.125 BORE x 1.00 ROD

1.000 PC

05 A 7754000001

P a07 b62

RING #1300-212 RETAINING

1.000 pc

06 A 7661000037

P A118

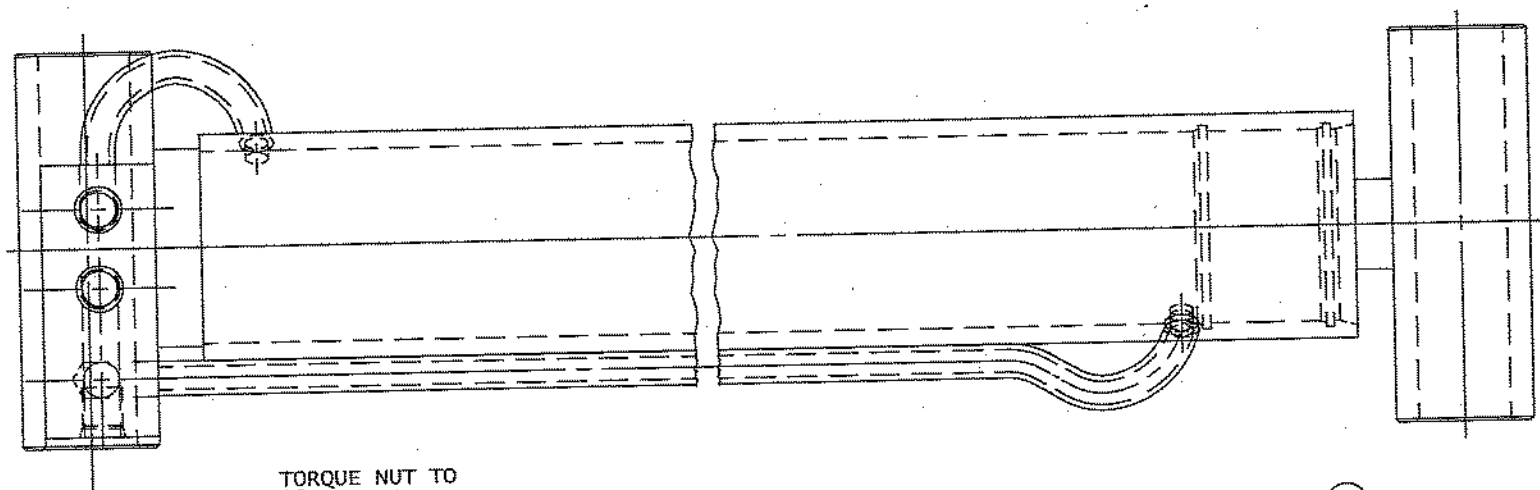
NUT .63"-18NF NYLON INSERT HEX

1.000 PC

*** End of Item ***

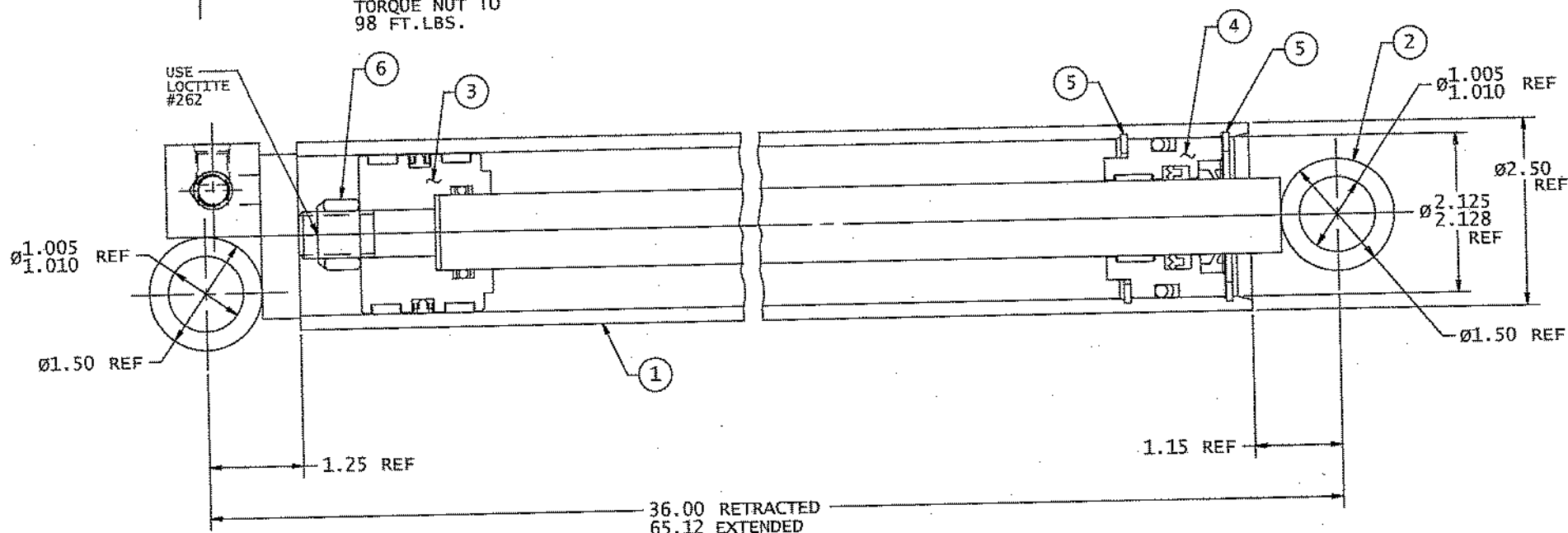
*** End of Report ***

GEN. NOTES
DO NOT SCALE DRAWING
BREAK SHARP CORNERS



TORQUE NUT TO
98 FT.LBS.

USE
LOCTITE
#262



NOTE:
PLUG PORTS FOR STORAGE

				TOLERANCES (EXCEPT AS NOTED)		JERR-DAN CORP. GREENCASTLE, PA.					
				DECIMAL		MAX'L SEE B/M		SCALE 1:1		DRAWN BY STK	
				2 PLACE 5 PLACE		-002 -013				ERN NO. 3775	
				ANGULAR		TITLE CYLINDER ASSY 2.13/1.00					
				30° 30'		DATE 12/27/04		NEXT ASS'Y		ORIGINAL	
				LIMITS ARE TO BE HOLD ACCORDING TO PER A LINE OF DIMENSIONS		DRAWING NO. C3-320-000148					
REV	ERN	DESCRIPTION	DATE	DRN							

***** Engineering Bill of Materials for ALTERNATE Route *****

** Report Excludes Shrinkage.

Effective as of 07/25/05

Item: 3698000005

PISTON ASSY 2.125 BORE x 1.00 ROD

Reference: B/2962-A

From Item: 3698000005

To Item: 3698000005

Last Changed Date: 08/11/00

Alternate Route #A215019

Quantity 1

Receive into Whse: HYKS

Revision #A/U

BIN:

UOM: PC

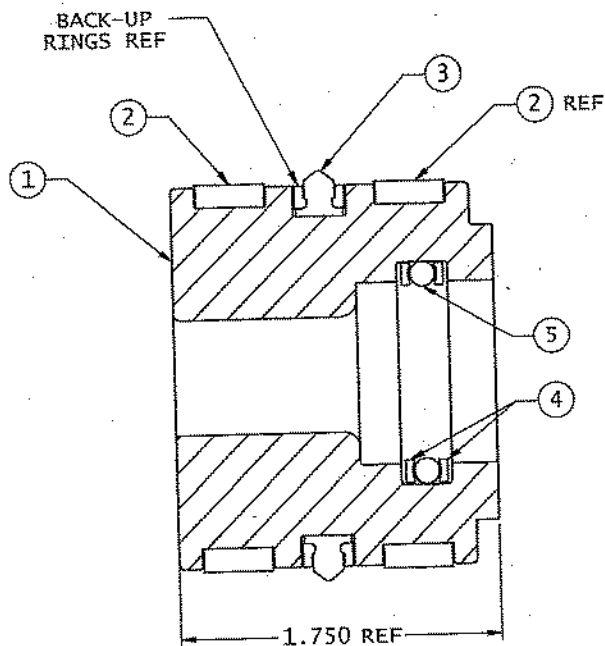
Seq Ball Dr	No.	-oon Sz	Component	Type	Location	Description	QtyPer	UOM	Reference	Effectivity
							=====	---	-----	-----
1	01	B	4698000011	P	1010	PISTON 2.13 BORE X 1.00 ROD X 1.75 LG	1.000	pc		-
2	02	N	7754000030	P		RING WRAR PISTON 2.125" BORE	2.000	pc		-
3	03	A	7796000062	P		SEAL PISTON LOCKING T 2.125" BORE	1.000	PC		-
4	04	N	7755214609	P		RING BACK-UP PISTON 1.00" ROD	2.000	pc		-
5	05	N	7755214000	P		RING "O" PISTON 1.00" ROD	1.000	pc		-

*** End of Item ***

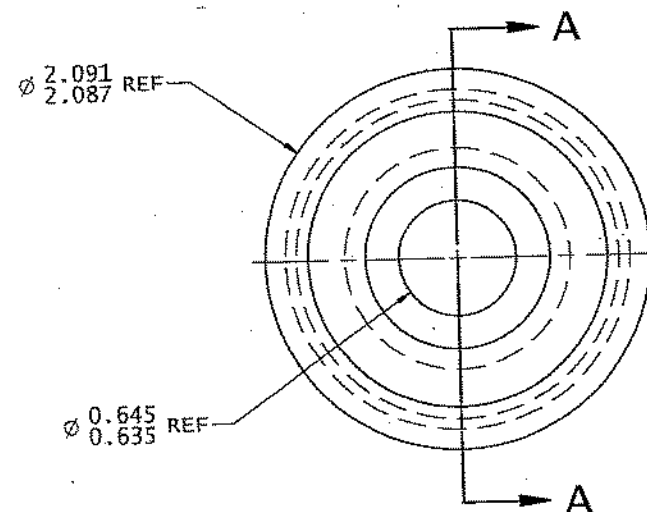
*** End of Report ***

PISTON ASSY (2.13 BORE CYLINDER)

DWG NO 3-698-000005 REV 01



SECTION A-A



01 ALL 3890 REDRAWN IN SOLID EDGE (30/20) 02/16/04 STX
REV: A B N DESCRIPTION DATE BY

IF IN DOUBT ASK.
DO NOT SCALE DRAWING.
REMOVE ALL BURS AND
SHARP CORNERS.

TOLERANCES UNLESS
OTHERWISE SPECIFIED
2 PLACE DEC. IN-CH
3 PLACE DEC. IN-CH
ANGLES UNLESS
SPECIFIED
UNLESS OTHERWISE SPECIFIED

JERR-DAN CORP 2000 TYSON ROAD GREENCASTLE, PA 15705		SHEET 1 OF 1	
TITLE PISTON ASSY (2.13 BORE CYLINDER)		WEIGHT A 1.062	
SCALE 2:1	DRN 2962	SIZE C	REV 01
DATE 02/10/00	DRN VLM	DWG NO 3-698-000005	

01/25/05 - 388000000-01-01

***** Engineering Bill of Materials for ALTERNATE Route *****

** Report Excludes Shrinkage.

Effective as of 07/25/05

Item: 3553000015

HEAD ASSY 2.125 BORE x 1.00 ROD

Reference: C/2962-A

From Item: 3553000015

To Item: 3553000015

Last Changed Date: 08/11/00

Alternate Route #A215025

Quantity 1

Receive into Whse: HYKS

Revision #0/0

BIN:

UOM: PC

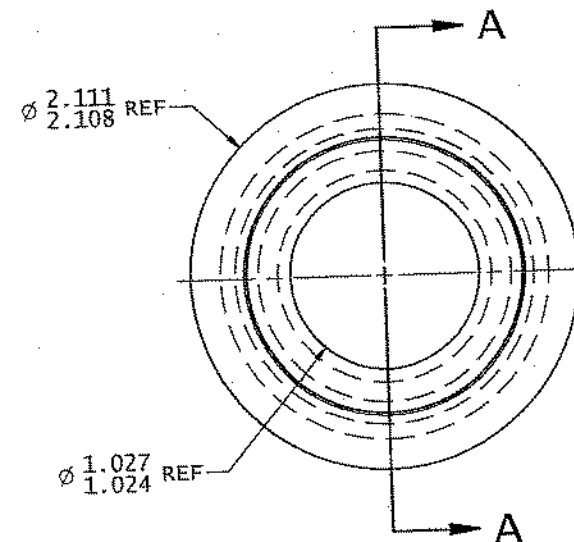
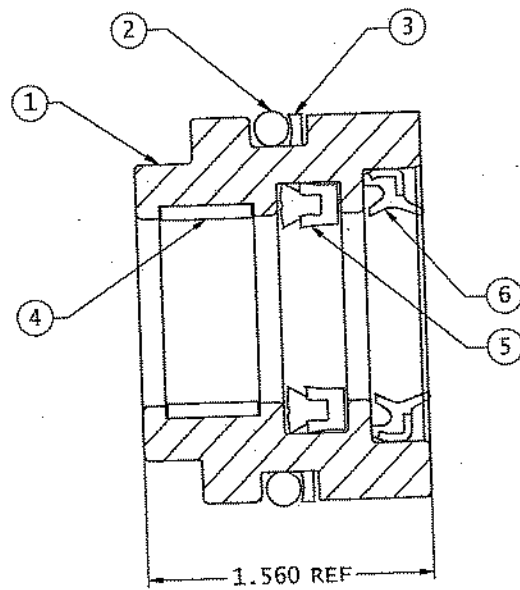
Seq	Ball Dr	Bin	Description	QtyPer	UOM	Reference	Effectivity
No.	-oon	Sz	Component Type Location	=====	===	=====	=====
1	01	C	4553000015 P	1.000	pc		-
2	02	N	7755327000 P	1.000	pc		-
3	03	A	7755327609 P	1.000	pc		-
4	04	N	7754000036 P	1.000	pc		-
5	05	N	7796000023 P 0121	1.000	pc		-
6	06	A	7796000005 P	1.000	pc		-

*** End of Item ***

*** End of Report ***

HEAD ASSY (2.13 BORE CYLINDER)

DWG NO 3-553-000015 REV 01



JERR-DAN CORP
1080 HYKES ROAD GREENCASTLE, PA 17229

PERMANENT AND CONSIDERABLE INFORMATION THIS DRAWING AND SUBJECT MATTER CONTAINED ARE THE SOLE AND EXCLUSIVE PROPERTY OF JERR-DAN CORPORATION. THIS COPY IS LOANED WITH THE UNDERSTANDING THAT IT OR THE SUBJECT MATTER CONTAINED HEREIN NOT BE DISCLOSED TO ANY OTHER PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF JERR-DAN CORPORATION. ACCEPTANCE OF THIS COPY SHALL BE CONSIDERED AS ACCEPTANCE OF THE FOREGOING CONDITIONS.	IF TO EXIST ASK DO NOT SCALE DRAWING. REMOVE ALL ERRORS AND SHARP CORNERS.	TOLERANCES UNLESS OTHERWISE SPECIFIED 1 PLACE DEC ±0.003 2 PLACE DEC ±0.015 3 PLACE DEC ±0.015 ANGLE DIM ±0.5° H/A TO MATERIAL THICKNESS	DATE 02/08/00 DRAWN 2962 CHECKED C DATE 02/08/00	REV 01 3-553-000015

01 ALL 3000 REDRAWN IN SOLID EDGE (30/20)	02/18/04 STK
REVISIONS	DATE BY

01/21/05 - 315000015-01.01c

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 12/21/05

Item: 2170000074

BOOM INSTL U/L MANUAL GRID

From Item: 2170000074

To Item: 2170000074

Last Changed Date:

Reference:D/3834

Revision #0/2/3907

BIN: WA03

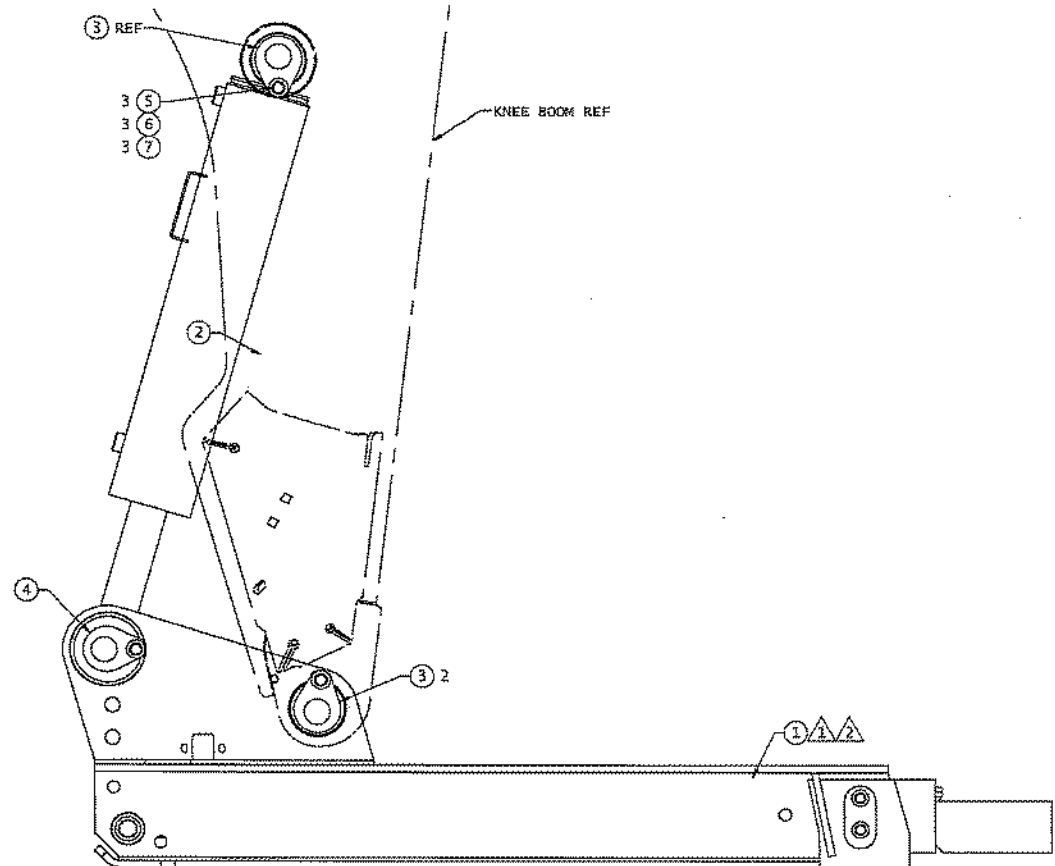
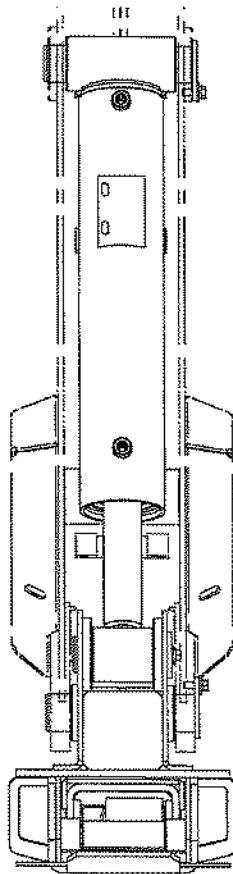
UOM: PC

Quantity	1	Receive into Whse: MYPT	Reference:D/3834	Revision #0/2/3907	BIN: WA03	UOM: PC	Last Changed Date:
Ball Dr	Bin	Description	QtyPer	UOM	Reference	Effectivity	
-oon Sz Component Type Location							
01	D 3170000394	M WA00	BOOM ASSY U/L MPL-40 MANUAL GRIDS	1.000	PC	-	
02	C 3320000150	M WA00	CYLINDER ASSY 4.00/2.00 X 27.88-44.94	1.000	PC	-	
03	B 3691000242	M WA00	PIN WELD 2.00 DIA x 7.88	2.000	PC	-	
04	B 3691000236	M WA02	PIN WELD 2.00 DIA x 5.00	1.000	PC	-	
05	N 7950160161	P 000104 14ASB M	FLATWASHER .38" NOM WIDE - PLATED	3.000	PC	-	
06	N 7115160850	P 000102 AD00B M	CAPSCREW .38"-16NC x 1.00" HEX HEAD	3.000	PC	-	
07	N 7950160000	P 000104 022504	LOCK WASHER .38"ID - PLATED	3.000	PC	-	
*** End of Item ***							

*** End of Report ***

BOOM INST U/L MPL-40 MANUAL GRIDS

DWG NO 2-170-000074 REV 02



NOTES:
1. IF IN SHORT AGE, DO NOT - GIVE DRAWING. REPORT ALL DAMAGE AND SAMP-DAMAGE.
2. IF IN SHORT AGE, DO NOT - GIVE DRAWING. REPORT ALL DAMAGE AND SAMP-DAMAGE.
3. IF IN SHORT AGE, DO NOT - GIVE DRAWING. REPORT ALL DAMAGE AND SAMP-DAMAGE.
4. IF IN SHORT AGE, DO NOT - GIVE DRAWING. REPORT ALL DAMAGE AND SAMP-DAMAGE.
5. IF IN SHORT AGE, DO NOT - GIVE DRAWING. REPORT ALL DAMAGE AND SAMP-DAMAGE.
6. IF IN SHORT AGE, DO NOT - GIVE DRAWING. REPORT ALL DAMAGE AND SAMP-DAMAGE.
7. IF IN SHORT AGE, DO NOT - GIVE DRAWING. REPORT ALL DAMAGE AND SAMP-DAMAGE.
8. IF IN SHORT AGE, DO NOT - GIVE DRAWING. REPORT ALL DAMAGE AND SAMP-DAMAGE.
9. IF IN SHORT AGE, DO NOT - GIVE DRAWING. REPORT ALL DAMAGE AND SAMP-DAMAGE.
10. IF IN SHORT AGE, DO NOT - GIVE DRAWING. REPORT ALL DAMAGE AND SAMP-DAMAGE.

JERR-DAN	
DATE: 8/28/95	REV: 02
DRAWN BY: [Signature]	
CHECKED BY: [Signature]	
APPROVED BY: [Signature]	
TITLE: BOOM INST U/L MPL-40 MANUAL GRIDS	
SCALE: 1/2"	
SHEET: 1 OF 1	

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 12/21/05

Item: 3170000394

BOOM ASSY U/L MPL-40 MANUAL GRIDS

From Item: 3170000394

To Item: 3170000394

Reference: D/3834

Last Changed Date: 11/21/05

Revision #B/3/3907

BIN: WA00

UOM: PC

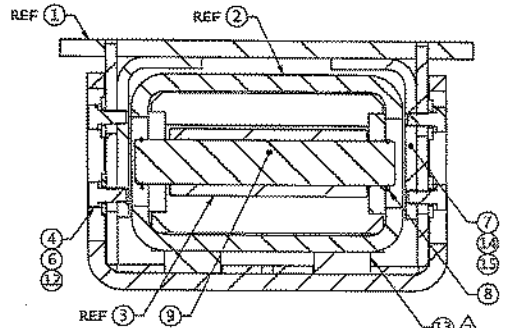
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Ball Dr	Bin						
-oon Sz Component Type Location	Description	QtyPer	UOM	Reference	Effectivity		
==== == =====	=====	=====	==	=====	=====		
01 D 3170000395	M WA00	BOOM WELD U/L BASE MPL MANUAL GRID	1.000	PC	3834	06/14/05-	
02 D 3170000393	M WA00	BOOM WELD U/L FLY MPL MANUAL GRIDS	1.000	PC		-	
03 C 3320000148	M 110101 WA00	CYLINDER ASSY 2.13/1.00 X 36.00-65.12	1.000	PC		-	
04 N 7950150161	P 022603 080304	FLATWASHER .31" NOM WIDE - PLATED	4.000	PC		-	
05 B 4679000046	P 020105 050105	PAD 0.38 X 3.00 X 5.94 WEAR	1.000	PC		-	
06 N 7105150550	P 000102 WA00D	CAPSCREW .31"-24NF X .63" HEX HEAD	4.000	PC		-	
07 B 4062000455	M 102001 WBPS	BAR 0.25 X 1.00 X 5.00	2.000	PC		-	
08 * 7754000019	P 000107 b65 WA0	RING 1.00" SHAFT DIA RETAINING	2.000	pc		-	
09 B 4691000307	M 021006 WA00	PIN 1.00 DIA X 5.75	1.000	ea		-	
10 B 4691000308	M 021006 WA00	PIN 1.00 DIA X 6.62	1.000	ea		-	
11 N 7754000056	P 080306 c19	SNAP RING 1" INTERNAL	2.000	pc		-	
12 N 7950150000	P 080304 MDF1B M	WASHER .31" NOM REG LOCK - PLATED	4.000	PC		-	
13 A 46790000213	M 022404 WA00	PAD 0.50 X 1.25 X 3.50 NSM NYLATRON	2.000	PC	3907	12/12/05-	
14 A 4812000067	M 022305 WA00	UNDERLIFT SHIM 14GA X .94 X 2.94	2.000	PC		-	
15 A 4812000068	M 022305 WA00	SHIM 16GA X 0.94 X 2.94	2.000	PC		-	

*** End of Item ***

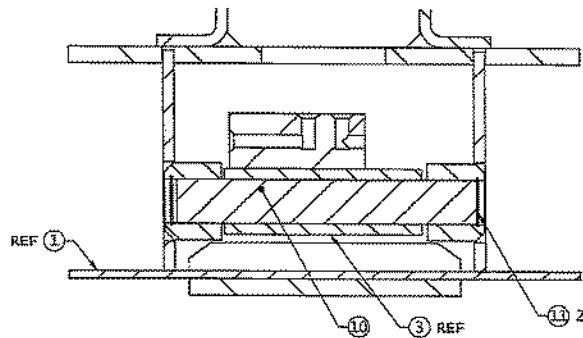
*** End of Report ***

BOOM ASSY MANUAL GRID UL (NO-LUBE)

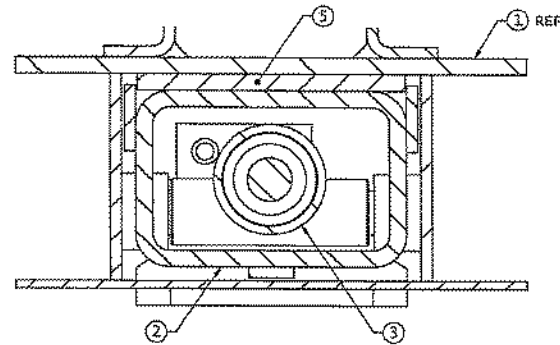
DWG NO 3-170-000394 REV 03



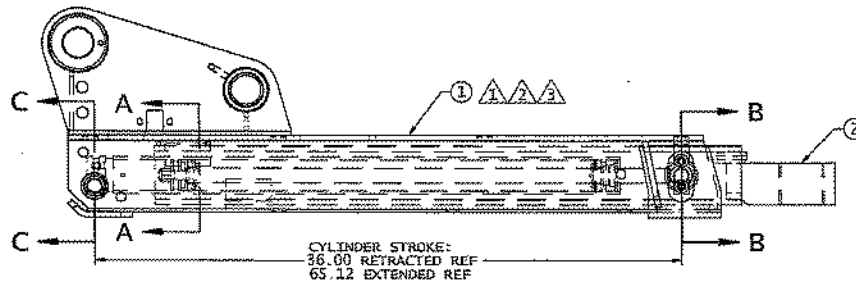
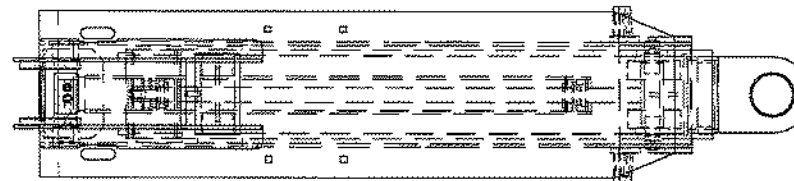
SECTION B-B
1:1.33



SECTION C-C
1:1.33



SECTION A-A
1:1.33



CYLINDER STROKE:
36.00 RETRACTED REF
65.12 EXTENDED REF

NOTE:

BRUSH A LIBERAL COAT OF ANTI-SEIZE COMPOUND
TO ALL PIN & BUSHING, METAL TO METAL,
CONTACT SURFACES UPON INSTALLATION.

RETRACTED POSITION: 36.00 INCHES EXTENDED POSITION: 65.12 INCHES CYLINDER STROKE: 29.12 INCHES		TO THE POINT OF NO FURTHER STROKE BEING POSSIBLE WITHOUT DAMAGING THE CYLINDER		SEE B/M		2 OF 1
BOOM ASSY MANUAL GRID UL (NO-LUBE)		DATE: 12/28/04		ISSUE: 1.0		1
DATE: 12/28/04		ISSUE: 1.0		ISSUE: 1.0		1
DATE: 12/28/04		ISSUE: 1.0		ISSUE: 1.0		1

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 07/25/05

*Item: 3320000150

CYLINDER ASSY 4.00/2.00 X 28.19-45.25

From Item: 3320000150

To Item: 3320000150

Last Changed Date: 09/28/04

Reference: C/3774B

Revision #0/1/3774

BIN: WA00

UOM: PC

Quantity

1

Receive into Whse: MYPT

Ball Dr

Bin

-oon Sz Component Type Location

Description

QtyPer UOM

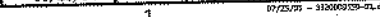
Reference

Effectivity

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01	D	3071000135	M	CC05	BARREL WELD "3150"	1.000	PC
02	C	3763000143	M	CC05	ROD WELD "3150"	1.000	PC
03	B	3698000002	P		PISTON ASSY 4.00 BORE x 2.00 ROD	1.000	PC
04	B	3553000012	P		HEAD ASSY 4.00 BORE X 2.00 ROD	1.000	PC
05	A	7754000013	P	b63	RING RETAINING 4" #1300-400	1.000	pc
06	A	7661000035	P	000105 d07	NUT 1.50"-12NF NYLON INSERT HEX	1.000	PC
07		7754000028	P	b66	RING RETAINING SMALLY WHM 400	1.000	pc
08	A	7082000029	P	g01	BEARING 2.25 OD X 2.00 ID X 1.50 IFR	4.000	PC

*** End of Item ***

*** End of Report ***



***** Engineering Bill of Materials for ALTERNATE Route *****

** Report Excludes Shrinkage.

Effective as of 08/04/05

Item: 3698000002

PISTON ASSY 4.00 BORE x 2.00 ROD

Reference: B/2962-A

From Item: 3698000002

To Item: 3698000002

Last Changed Date: 08/11/00

Alternate Route #A215016

Revision #0/0

Quantity 1

Receive into Whse: HYKS

BIN:

UOM: PC

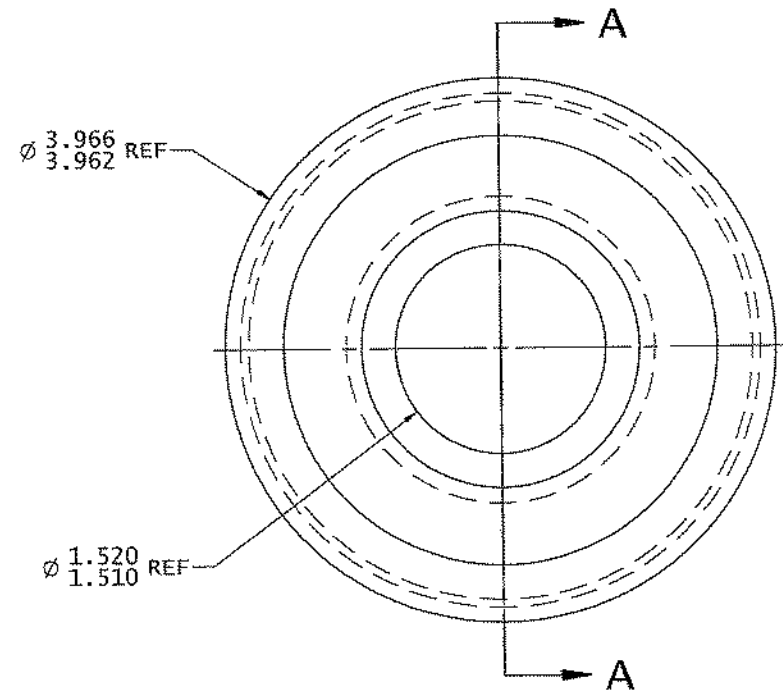
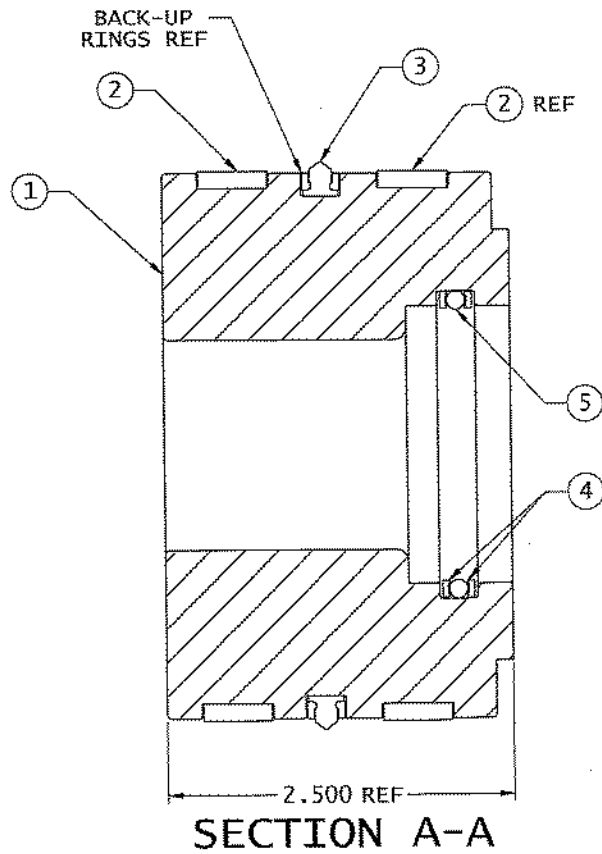
Seq	Ball	Dr	No.	-oon	Sz	Component	Type	Bin	Location	Description	QtyPer	UOM	Reference	Effectivity
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1	01	B				4698000008	P	1010		PISTON 4.00 BORE X 2.00 ROD X 2.50 LG	1.000	pc		-
2	02	A				7754000011	P	J38		RING WEAR PISTON 4.00" BORE	2.000	pc		-
3	03	A				7796000065	P			SEAL PISTON LOCKING T 4.00" BORE	1.000	PC		-
4	04	N				7755226609	P			RING BACK-UP PISTON 2.00" ROD	2.000	pc		-
5	05	N				7755226000	P			RING "O" PISTON 2.00" ROD	1.000	pc		-

*** End of Item ***

*** End of Report ***

PISTON ASSY (4.00 BORE CYLINDER)

DWG NO 3-698-0002 REV 02



02 ALL 3890 REDRAWN IN SOLID EDGE (30/20) 02/18/04 STK
REVIZOR: EKN DESCRIPTION DATE BY

PROPRIETARY AND CONFIDENTIAL
THIS DRAWING AND SUBJECT MATTER
CONTAINED HEREIN ARE THE SOLE AND EXCLUSIVE
PROPERTY OF JERR-DAN CORPORATION. THIS
COPY IS LOANED WITH THE UNDERSTANDING
THAT IT OR THE SUBJECT MATTER CONTAINED
HEREIN WILL NOT BE REPRODUCED OR
TRANSMITTED IN ANY FORM OR BY ANY
MEANS, ELECTRONIC OR MECHANICAL,
INCLUDING PHOTOCOPYING, RECORDING,
OR BY ANY INFORMATION STORAGE AND
RETRIEVAL SYSTEM, WITHOUT THE WRITTEN
PERMISSION OF JERR-DAN CORPORATION. ACCEPTANCE OF
THIS COPY SHALL BE CONSIDERED AS
ACCEPTANCE OF THE FOREGOING CONDITIONS.

IF IN DOUBT ASK.
DO NOT SCALE DRAWINGS.
REMOVE ALL BURS AND
SHARP CORNERS.
TOLERANCES UNLESS
OTHERWISE SPECIFIED
2 PLACE DEC 20.002
3 PLACE DEC 20.013
ANGLE DIM ±0.5°
N/A TO MATERIAL THICKNESS

JERR-DAN CORP 3080 MYERS ROAD GREENCASTLE, PA 17225		SHEET 1 OF 1	
TITLE PISTON ASSY (4.00 BORE CYLINDER)		WEIGHT E 6.00#	
SCALE 3:2	ENR 2962	DATE 2/9/00	DRW NO C 3-698-000002 02

***** Engineering Bill of Materials for ALTERNATE Route ****

** Report Excludes Shrinkage.

Effective as of 07/26/05

Item: 3553000012

HEAD ASSY 4.00 BORE x 2.00 ROD

Reference: B/2962-A

From Item: 3553000012

To Item: 3553000012

Last Changed Date: 08/11/00

Alternate Route #A215022	Quantity 1	Receive into Whse: HYKS	Revision #0/0	BIN:	UOM: PC
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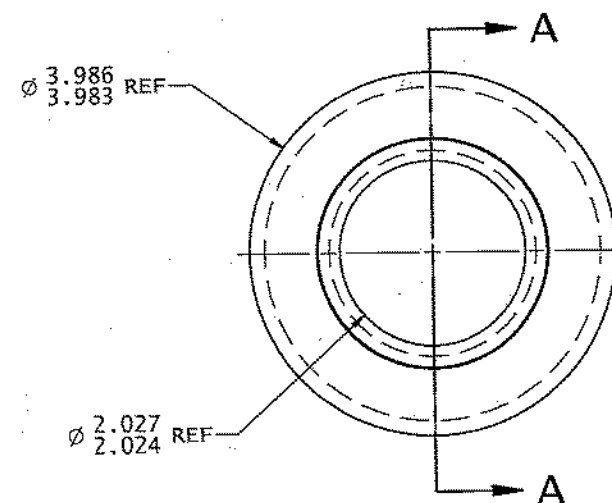
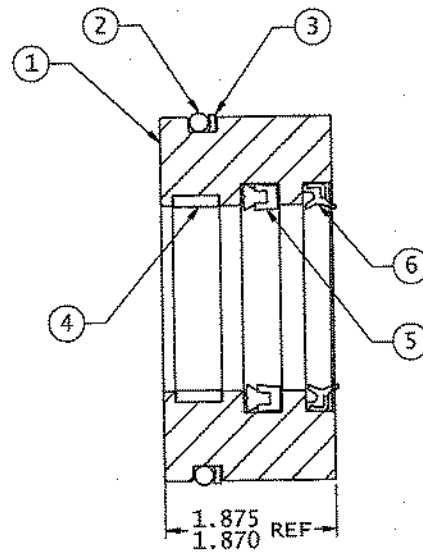
Seq	Ball Dr	No.	oon	Sz	Component	Type	Location	Description	Qty	Per	UOM	Reference	Effectivity
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1	01	B	4553000009	P	1010			HEAD 4.00 BORE X 2.00 ROD X 1.88 LG	1.000		pc		-
2	02	N	7755342000	P				RING "O" HEAD GLAND 4.00" BORE	1.000		pc		-
3	03	A	7755342609	P				RING BACK-UP HEAD GLAND 4.00" BORE	1.000		pc		-
4	04	A	7754000012	P				RING WEAR HEAD 2.00" ROD	1.000		pc		-
5	05	A	7796000025	P				SEAL ROD 2.00"	1.000		pc		-
6	06	A	7796000011	P				SEAL WIPER 2.00" ROD	1.000		pc		-

*** End of Item ***

*** End of Report ***

HEAD ASSY (4.00 BORE CYLINDER)

DWG NO 3-553-000012 REV 02



SECTION A-A

JERR-DAN CORP
1080 HYKES ROAD GREENCASTLE, PA 17225

IF IN DOUBT ASK. DO NOT SCALE DRAWING. REMOVE ALL BURRS AND SHARP CORNERS. TOLERANCES UNLESS OTHERWISE SPECIFIED: 2 PLACE DEC ± 0.002 3 PLACE DEC ± 0.001 ANGLE ± 0.5 H/A TO MATERIAL THICKNESS	PROPERTY AND SUBJECT MATTER CONTAINED ARE THE SOLE AND EXCLUSIVE PROPERTY OF JERR-DAN CORPORATION. THIS COPY IS LOANED WITH THE UNDERSTANDING THAT IT OR THE SUBJECT MATTER CONTAINED WILL NOT BE DISCLOSED TO ANY OTHER PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF JERR-DAN CORPORATION. ACCEPTANCE OF THIS COPY SHALL BE CONSIDERED AS ACCEPTANCE OF THE FOREGOING CONDITIONS.	NAT'L SEE 8/M	SHEET 1 OF 1	
	HEAD ASSY (4.00 BORE CYLINDER)			
	SCALE 1:1	DATE 02/03/00	DRAWN VLM	REV 02
	DATE 02/03/00			REV 02

02/18/94 STK
REV 0201 ERM

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 07/25/05

Item: 3320000148

CYLINDER ASSY 2.13/1.00 X 36.00-65.12

Reference: C/3775

From Item: 3320000148

To Item: 3320000148

Last Changed Date:

Revision #0/0

BIN: 110101

UOM: PC

Quantity

1

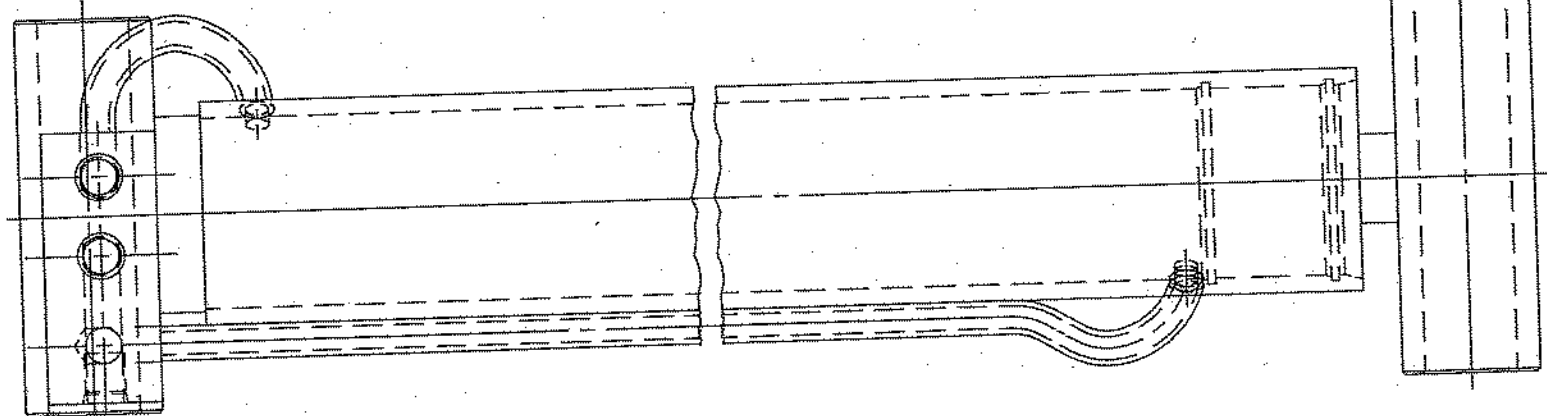
Receive into Whse: SERV

Ball Dr	Bin	Description	QtyPer	UOM	Reference	Effectivity
-oon Sz Component Type Location			=====	=====	=====	=====
01 D 3071000133	M CC05	BARREL WELD "3148"	1.000	PC		-
02 C 3763000142	M CC05	ROD WELD "3148"	1.000	PC		-
03 B 3698000005	P	PISTON ASSY 2.125 BORE x 1.00 ROD	1.000	PC		-
04 C 3553000015	P	HEAD ASSY 2.125 BORE x 1.00 ROD	1.000	PC		-
05 A 7754000001	P a07 b62	RING #1300-212 RETAINING	1.000	pc		-
06 A 7661000037	P A118	NUT .63"-18NF NYLON INSERT HEX	1.000	PC		-

*** End of Item ***

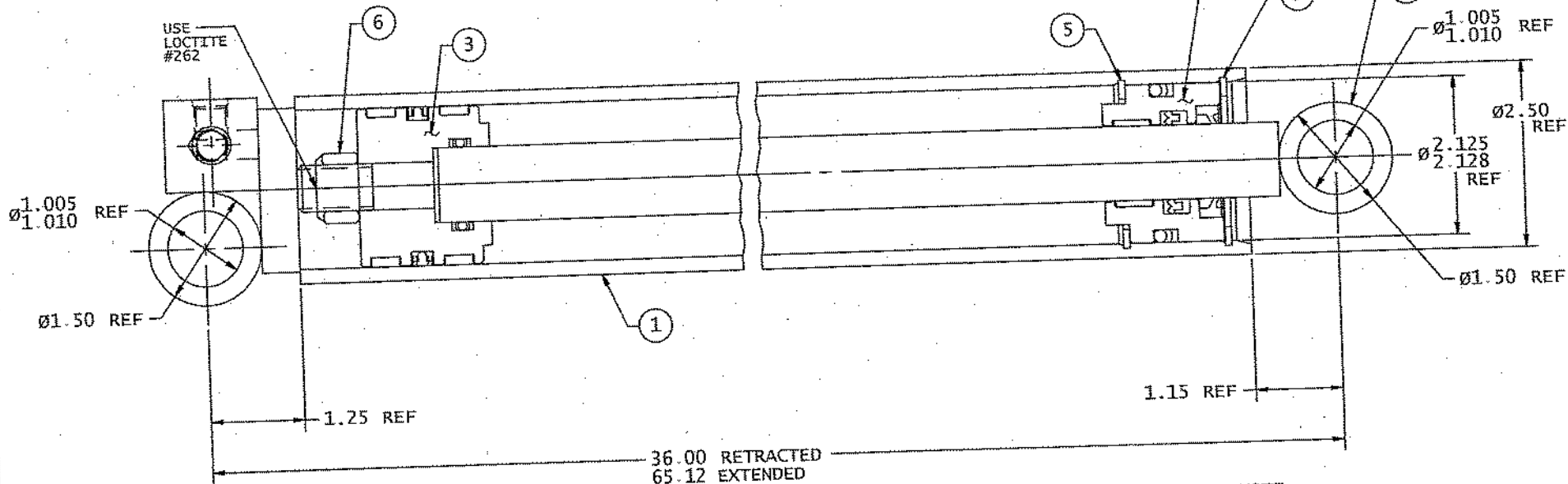
*** End of Report ***

GEN. NOTES
DO NOT SCALE DRAWING
BREAK SHARP CORNERS



TORQUE NUT TO
98 FT. LBS.

USE
LOCTITE
#262



NOTE:
PLUG PORTS FOR STORAGE

					TOLERANCES (EXCEPT AS NOTED)					JERR-DAN CORP. GREENCASTLE, PA.				
					DECIMAL 3 PLACE .015		MAT'L SEE B/M			SCALE 1:1		DRAWN BY STR ERN NO. 3775		
					ANGULAR ±0° 30'		TITLE CYLINDER ASSY 2.13/1.00							
					DIMENSIONS ARE TO BE NON-ACCUMULATIVE PER A LINE OF DIMENSIONS.		DATE 12/27/04		NEXT ASS'Y		ORIGINAL			
							DRAWING NO. C3-320-000148							
REV	ERN	DESCRIPTION				DATE	DRN							

***** Engineering Bill of Materials for ALTERNATE Route ****

** Report Excludes Shrinkage.

Effective as of 08/04/05

Item: 3698000005

PISTON ASSY 2.125 BORE x 1.00 ROD

Reference: B/2962-A

From Item: 3698000005

To Item: 3698000005

Last Changed Date: 08/11/00

Alternate Route #A215019

Quantity 1

Receive into Whse: HYKS

Revision #A/0

BIN:

UOM: PC

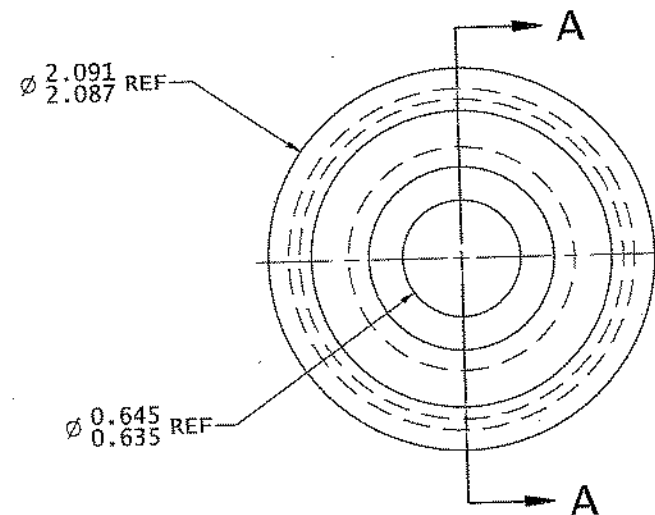
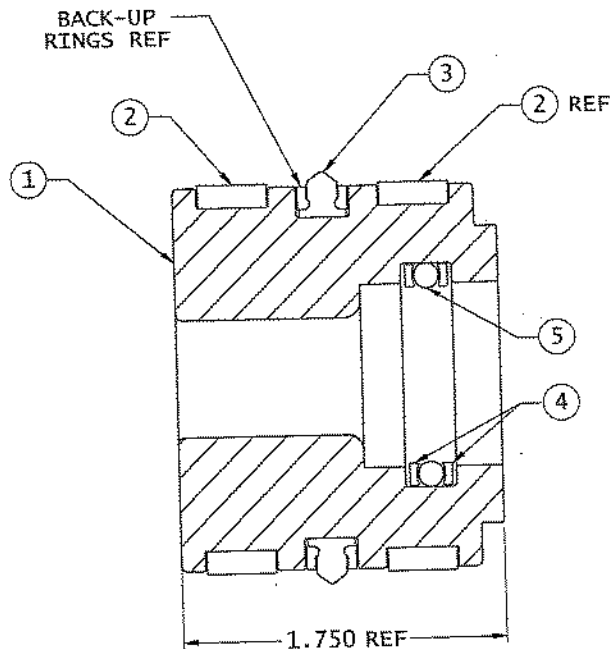
Seq	Ball Dr	Bin	No.	-oon Sz	Component Type	Location	Description	QtyPer	UOM	Reference	Effectivity
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1	01	B	4698000011	P	1010		PISTON 2.13 BORE X 1.00 ROD X 1.75 LG	1.000	pc		-
2	02	N	7754000030	P			RING WEAR PISTON 2.125" BORE	2.000	pc		-
3	03	A	7796000062	P			SEAL PISTON LOCKING T 2.125" BORE	1.000	PC		-
4	04	N	7755214609	P			RING BACK-UP PISTON 1.00" ROD	2.000	pc		-
5	05	N	7755214000	P			RING "O" PISTON 1.00" ROD	1.000	pc		-

*** End of Item ***

*** End of Report ***

PISTON ASSY (2.13 BORE CYLINDER)

DWG NO 3-698-C 005 REV 01



SECTION A-A

JERR-DAN CORP
1080 HYKES ROAD GREENCASTLE, PA 17231

PROPRIETARY AND CONFIDENTIAL THIS DRAWING AND SUBJECT MATTER CONTAINED ARE THE SOLE AND EXCLUSIVE PROPERTY OF JERR-DAN CORPORATION. THIS COPY IS LOANED WITH THE UNDERSTANDING THAT IT OR THE SUBJECT MATTER CONTAINED HEREIN WILL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE EXPRESS WRITTEN PERMISSION OF JERR-DAN CORPORATION. ACCEPTANCE OF THIS COPY SHALL BE CONSTRUED AS ACCEPTANCE OF THE FOLLOWING CONDITIONS:		IF IN DOUBT ASK TO NOT SCALE DRAWING. REMOVE ALL BURNS AND SHARP CORNERS.		TOLERANCES UNLESS OTHERWISE SPECIFIED 2 PLACE DEC 25-502 3 PLACE DEC 25-015 ANGLE DEC 25-5		N/A TO MATERIAL THICKNESS		TITLE PISTON ASSY (2.13 BORE CYLINDER)		SCALE 2:1		DATE 2/10/00		DRW NO 3-698-000005		REV 01		SHEET 1 OF 1		WEIGHT A 1.06#	
UT ALL 13690 REDRAWN IN SOLID EDGE (30/20)		02/18/04 STX		DATE		BY		1		2		1		1		1		1		1	

UT ALL 13690 REDRAWN IN SOLID EDGE (30/20)

02/18/04 STX

DATE

BY

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***** Engineering Bill of Materials for ALTERNATE Route *****

** Report Excludes Shrinkage.

Effective as of 08/04/05

Item: 3553000015

HEAD ASSY 2.125 BORE x 1.00 ROD

From Item: 3553000015

To Item: 3553000015

Reference: C/2962-A

Last Changed Date: 08/11/00

Alternate Route #A215025

Revision #0/0

Quantity 1

Receive into Whse: HYKS

BIN:

UOM: PC

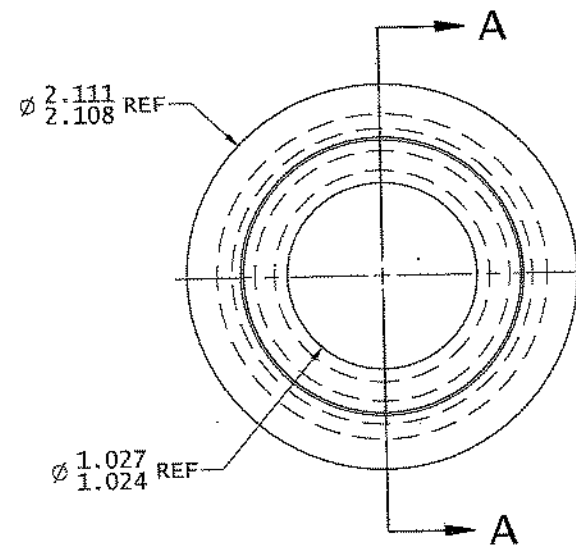
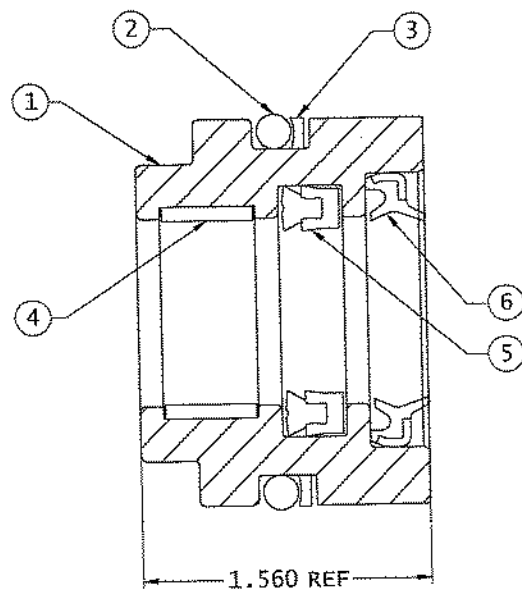
Seq	Ball	Dr	No.	-oon	Sz	Component	Type	Bin	Location	Description	Qty	Per	UOM	Reference	Effectivity
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1	01	C	4553000015	P		HEAD 2.13 BORE X 1.00 ROD X 1.56 LG					1.000	pc			-
2	02	N	7755327000	P		RING "O" HEAD GLAND 2.125" BORE					1.000	pc			-
3	03	A	7755327609	P		RING BACK-UP HEAD GLAND 2.13" BORE					1.000	pc			-
4	04	N	7754000036	P		RING WEAR HEAD 1.00" BORE					1.000	pc			-
5	05	N	7796000023	P	0121	SEAL ROD 1.00"					1.000	pc			-
6	06	A	7796000005	P		SEAL WIPER 1.00" ROD					1.000	pc			-

*** End of Item ***

*** End of Report ***

HEAD ASSY (2.13 BORE CYLINDER)

DWG NO 3-553-C 015 REV 01



SECTION A-A

JERR-DAN CORP
1000 HYAKS ROAD GREENCASTLE, PA 15225

PROPERTY AND CONFIDENTIAL INFORMATION
THIS DRAWING AND SUBJECT MATTER CONTAINED HEREIN ARE THE SOLE AND EXCLUSIVE PROPERTY OF JERR-DAN CORPORATION. THIS COPY IS LOANED WITH THE UNDERSTANDING THAT IT OR THE SUBJECT MATTER CONTAINED HEREIN WILL NOT BE DISCLOSED TO ANY OTHER PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF JERR-DAN CORPORATION. ACCEPTANCE OF THIS COPY SHALL BE CONSIDERED AS ACCEPTANCE OF THE FOREGOING CONDITION.

IF IN DOUBT ASK
DO NOT SCALE DRAWING.
REMOVE ALL BURS AND SHARP CORNERS.

TOLERANCES UNLESS OTHERWISE SPECIFIED
2 PLACE DEC +0.002
3 PLACE DEC +0.001
ANGLE DIM +0.5
N/A TO MATERIAL TOLERANCES

TITLE HEAD ASSY (2.13 BORE CYLINDER)
SCALE 2:1
DATE 2/8/00
BY 2982
SIZE C
ENG NO 3-553-000015
SHEET 1 OF 1
WEIGHT A 0.768
REV 01

BY TALL (3690) REDRAWN IN SOLID EDGE (AD/20) 02/18/04 STK
REVISIONS: EBN DESCRIPTION DATE BY

Wheelgrid Installation

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/19/05

Item: 3484000069

GRID ASSY NO-LUBE HYD FIXED GRID

From Item: 3484000069

To Item: 3484000069

Reference:D/3775

Last Changed Date:08/18/05

Quantity		1	Receive into Whse: MYPT		Revision #C/3	BIN: WA03	UOM: PC	
Ball Dr	Bin	Location		Description	QtyPer	UOM	Reference	Effectivity
====	==	=====	=====	=====	=====	==	=====	=====
01	D 3484000068	M	WA03	GRID WELD NO-LUBE HYD FIXED GRID	1.000	PC		-
02	B 4691000482	P	010304 m01	PIN 2.75 DIA x 4.54	1.000	PC		-
03	A 4949000047	P	020304 d08 e12	WASHER 5.00"OD X 2.84"ID X .063"THK	2.000	pc		-
04	A 7754000024	P	010304 c18 g04	RING #WSM-275 RETAINING	1.000	pc		-
05	C 4314000076	M	WA03	COVERPLATE 11GA X 2.50 X 31.85	2.000	PC		-
06	N 7114140518	P	000108 a10 A12	CAPSCREW .25"-20NC X .62" BSH S/S	4.000	pc		-
07	B 4619000013	P	d02	MANIFOLD HYD 1.00 x 2.00 x 10.38 LG ALUM	1.000	PC		-
08	N 7115151250	P		CAPSCREW .31"-18NC x 1.50" HEX HEAD	4.000	pc		-
09	N 7950160000	P	000104 022504	LOCK WASHER .38"ID - PLATED	2.000	PC		-
10	B 7912000184	P	J58	TUBE ASSY 0.25 OD FLARED HYD X 11.00	4.000	PC		-
11	B 4064000052	M	WA03	BAR 1.25 DIA X 1.50	1.000	PC		-
12	A 7843000037	P	a07	SPRING DIE 1.25 OD X 1.50 LG	1.000	PC		-
13	B 4831000095	M	WA00	SPACER 1.25 DIA X 0.10 THK	1.000	PC		-
14	A 7786000009	P	a07	SETSCREW .75-16NF X 1.5" CUP PNT, PLATED	1.000	PC		-
15	7785140400	P	100606	SCREW .25"-20NC X .25" SET	2.000	pc		-
16	C 7320000064	P	m02	CYLINDER ASSY NO-LUBE HYD FIXED GRID	2.000	PC		-
17	A 3691000229	M	WA03	PIN WELD 0.75 DIA X 3.50	4.000	PC		-
18	A 4691000497	M	WA03	PIN 0.7465/.7475 DIA X 1.75	2.000	PC		-
19	A 7274000039	P	022406 b11 e18	COVER BEHRINGER CLAMP COVER	2.000	PC		-
20	N 7785140870	P	030505	SCREW .25"-20 X .50"LG HSH CP SET	2.000	pc		-
21	C 3592000052	M	WA03	LINK WELD CYL NO-LUBE HYD FIXED GRID	2.000	PC		-
22	N 7115151023	P		CAPSCREW .31"-18NC X 1.25" FH SH JS2000	6.000	PC		-
23	B 3592000051	M	WA03	LINK WELD L-ARM NO-LUBE HYD FIXED GRID	2.000	PC		-
24	B 4706003497	M	030303 WA03	PLATE 0.38 X 1.50 X 4.50	2.000	PC		-
25	A 7754000022	P	080306 b65	RETAINING RING -.75"DIA SHAFT	4.000	pc		-
26	D 3020000116	M	WA03	ARM WELD LH NO-LUBE HYD FIXED GRID "L"	1.000	PC		-
27	D 3020000117	M	WA03	ARM WELD RH NO-LUBE HYD FIXED GRID "L"	1.000	PC		-
28	A 3691000230	M	WA03	PIN WELD 1.25 DIA X 3.63	2.000	PC		-
29	* 7445040443	P	021305 b37	ADAPTER STR #4JIC-#4 "O" RING (M)	4.000	pc		-
30	DEL	M		*****ITEM DELETED*****	1.000	PC	3858	08/11/05-
31	A 7274000086	P	b17	CLAMP TWIN 0.25 DIA TUBE HALF	4.000	PC		-

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/19/05

Item: 3484000069

GRID ASSY NO-LUBE HYD FIXED GRID

From Item: 3484000069

To Item: 3484000069

Reference:D/3775

Last Changed Date:08/18/05

Quantity	1	Receive into Whse: MYPT	Revision #C/3	BIN: WA03	UOM: PC
----------	---	-------------------------	---------------	-----------	---------

Ball Dr	Sz	Component	Type	Location	Description	QtyPer	UOM	Reference	Effectivity
====	==	=====		=====	=====	=====	==	=====	=====
32	C	3831000026	M	102501 WA03	SPACER WHEEL GRID	2.000	PC		-
33	N	7660152601	P	022603 030602	LOCKNUT .31-18NC GR5 HEX NYLOC	6.000	pc		-
34	N	7330000037	P	040706 c02 f02	DECAL - MOVING PARTS	2.000	pc		-
35	B	7330000036	P	040706 c02 c03	DECAL - WARNING - SECURE VEHICLE	1.000	pc		-
36	B	7894000034	P	FLOOR m10 n01	STRAP & RATCHET LIGHT DUTY L-ARM	2.000	PC	3846	08/10/05-12/30/29

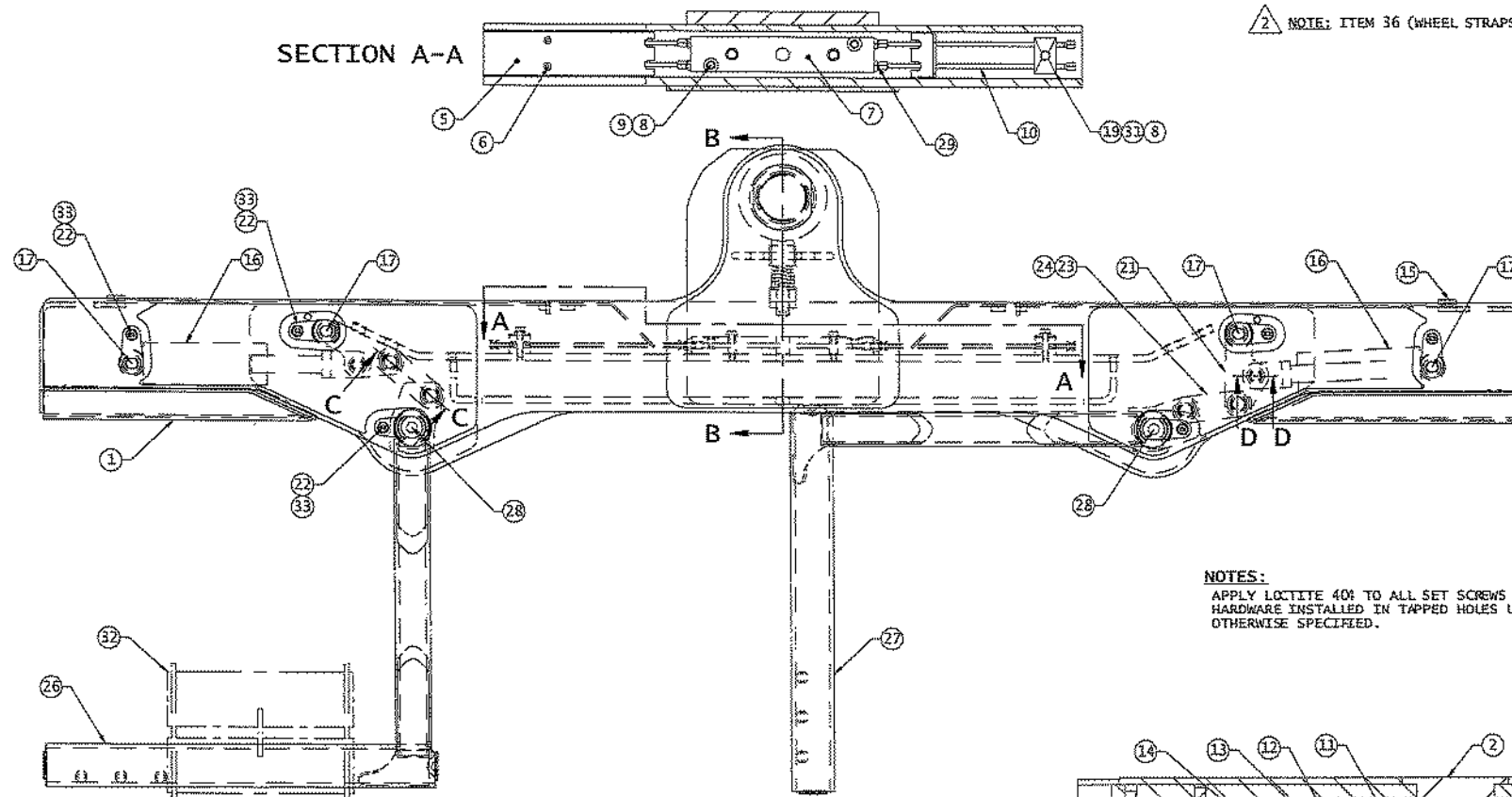
*** End of Item ***

*** End of Report ***

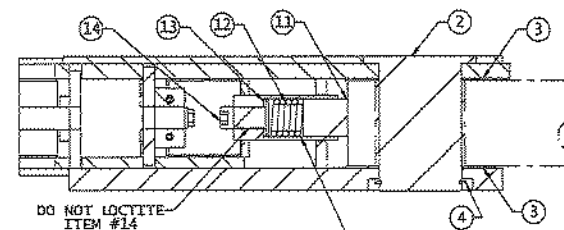
GRID ASSY NO-LUBE HYD FIXED GRID

DWG NO 3-484-00006903 REV

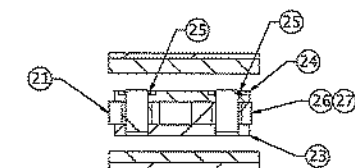
NOTE: ITEM 36 (WHEEL STRAPS) NOT SHOWN FOR CLARITY



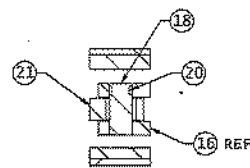
NOTES:
APPLY LOCTITE 401 TO ALL SET SCREWS AND
HARDWARE INSTALLED IN TAPPED HOLES UNLESS
OTHERWISE SPECIFIED.



SECTION B-B
1:2
APPLY LIBERAL COAT OF ANY
SEIZE COMPOUND TO INSIDE
OF BUSHING AND THREADED
AREA BEFORE INSTALLING
ITEMS #11, 12, 13, 14.



SECTION C-C
1:2



SECTION D-D
1:2

REVISIONS		DATE		BY	
1.0		11/17/04		1	
2.0		11/17/04		1	
3.0		11/17/04		1	
4.0		11/17/04		1	
5.0		11/17/04		1	
6.0		11/17/04		1	
7.0		11/17/04		1	
8.0		11/17/04		1	
9.0		11/17/04		1	
10.0		11/17/04		1	
11.0		11/17/04		1	
12.0		11/17/04		1	
13.0		11/17/04		1	
14.0		11/17/04		1	
15.0		11/17/04		1	
16.0		11/17/04		1	
17.0		11/17/04		1	
18.0		11/17/04		1	
19.0		11/17/04		1	
20.0		11/17/04		1	
21.0		11/17/04		1	
22.0		11/17/04		1	
23.0		11/17/04		1	
24.0		11/17/04		1	
25.0		11/17/04		1	
26.0		11/17/04		1	
27.0		11/17/04		1	
28.0		11/17/04		1	
29.0		11/17/04		1	
30.0		11/17/04		1	
31.0		11/17/04		1	
32.0		11/17/04		1	
33.0		11/17/04		1	
34.0		11/17/04		1	
35.0		11/17/04		1	
36.0		11/17/04		1	

DWG NO	REV
3-484-000069	03



1. <u>IDENTIFICATION OF THE SUBJECT</u> THE SHIPNAME AND COUNTRY WERE CONFIRMED AND THE NAME OF THE PRODUCTION OF GOLD WAS IDENTIFIED.		2. <u>IN THE COURT</u> DO NOT KNOW PROSECUTOR REQUEST ALL FIRMS AND INFORMATION.		3. <u>DATE</u> 12/12/76		4. <u>PAGE</u> 2 OF 2	
5. <u>OTHER INFORMATION</u> IT IS THE LARGEST FIRM OPERATING IN THE AREA OF THE GOLD PRODUCTION. THE FIRM HAS BEEN ADVISED THAT THE GOLD PRODUCTION IS BEING EXPORTED TO THE UNITED STATES OF AMERICA.		6. <u>OTHER INFORMATION</u> THE FIRM HAS BEEN ADVISED THAT THE GOLD PRODUCTION IS BEING EXPORTED TO THE UNITED STATES OF AMERICA.		7. <u>OTHER INFORMATION</u> THE FIRM HAS BEEN ADVISED THAT THE GOLD PRODUCTION IS BEING EXPORTED TO THE UNITED STATES OF AMERICA.		8. <u>OTHER INFORMATION</u> THE FIRM HAS BEEN ADVISED THAT THE GOLD PRODUCTION IS BEING EXPORTED TO THE UNITED STATES OF AMERICA.	
9. <u>OTHER INFORMATION</u> THE FIRM HAS BEEN ADVISED THAT THE GOLD PRODUCTION IS BEING EXPORTED TO THE UNITED STATES OF AMERICA.		10. <u>OTHER INFORMATION</u> THE FIRM HAS BEEN ADVISED THAT THE GOLD PRODUCTION IS BEING EXPORTED TO THE UNITED STATES OF AMERICA.		11. <u>OTHER INFORMATION</u> THE FIRM HAS BEEN ADVISED THAT THE GOLD PRODUCTION IS BEING EXPORTED TO THE UNITED STATES OF AMERICA.		12. <u>OTHER INFORMATION</u> THE FIRM HAS BEEN ADVISED THAT THE GOLD PRODUCTION IS BEING EXPORTED TO THE UNITED STATES OF AMERICA.	

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 07/27/05

Item: 3484000076

GRID ASSY BIAS CUT L-ARM

Reference: D/3834

From Item: 3484000076

To Item: 3484000076

Last Changed Date:

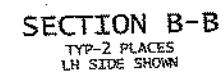
Quantity	1	Receive into Whse: HYKS	Revision #0/0	UOM: PC
			BIN:	

Ball Dr	Bin	Description	QtyPer	UOM	Reference	Effectivity
-oon Sz Component Type Location						
---	---	-----	-----	---	-----	-----
01	C 3170000390	M BOOM WELD U/L CROSSTUBE	1.000	PC		-
02	B 4691000427	P 010203 h04 m03 PIN 2.75 DIA X 5.05 PIVOT	1.000	PC		-
03	A 4949000047	P 020304 d08 e12 WASHER 5.00"OD X 2.84"ID X .063"THK	2.000	pc		-
04	A 7754000024	P 010304 c18 g04 RING #WSM-275 RETAINING	1.000	pc		-
05	C 3484000030	M 080101 WA00 WA GRID WELD RH (4.00 SQ STD)	1.000	PC		-
06	C 3484000031	M 080101 WA00 GRID WELD LH (4.00 SQ STD)	1.000	PC		-
07	C 3020000037	M 040910 n01 WA0 ARM WELD LH "L" (PLATED) 2 x 3	1.000	PC		-
08	C 3020000038	M 040910 n01 WA0 ARM WELD RH "L" (PLATED) 2 x 3	1.000	ea		-
09	A 3551000036	P 102202 f04 f08 HANDLE WELD "T" - ZINIC PLATED	2.000	PC		-
10	C 3178000448	M BRKT WELD L-ARM STORAGE REAR LH	1.000	PC		-
11	C 3178000449	M BRKT WELD L-ARM STORAGE REAR RH	1.000	PC		-
12	B 4911000454	M TUBE 3.50 x 2.50 x 0.19 x 4.50	2.000	PC		-
13	A 4090000013	M BELT 0.12 x 2.00 x 7.00	2.000	PC		-
14	N 7114140818	P 000108 A125 x0 CAPSCREW 0.25"-20 X 1.00" SS BT HD	8.000	PC		-
15	N 7950140000	P 000104 A96 x01 LOCKWASHER .25" NOM REG CS	8.000	PC		-
16	N 7950140143	P 000102 x01 FLATWASHER 0.25 NOM NARROW SS	8.000	PC		-
17	A 7413000002	P c14 NUTSERT .25"-20NC AVK INDUSTRIAL	8.000	pc		-
18	A 7843000006	P 030505 101604 SPRING .66"OD X 1.75 LG COMP (MUSIC)	2.000	pc		-
19	A 4691000186	P 030505 102206 PIN 0.75 DIA X 3.313	2.000	PC		-
20	A 4254000005	P 030505 102205 CAP 1.25"DIA X 1.22" LONG	2.000	PC		-
21	A 4763000184	P 102205 d05 ROD .38"DIA C1040/45 CF - 1.75" LG	2.000	pc		-
22	N 7440030000	P 000103 c15 FITTING 0.25-28NF - STRAIGHT GREASE	2.000	PC		-
23	B 7330000036	P 040706 c02 c03 DECAL - WARNING - SECURE VEHICLE	2.000	pc		-
24	N 7330000037	P 040706 c02 f02 DECAL - MOVING PARTS	1.000	pc		-
25	B 7330000122	P 040704 c03 DECAL ALUMINUM - W/L WARNING	1.000	pc		-
26	A 7330000553	P DECAL L-ARM STORAGE	2.000	PC		-
27	B 7894000034	P FLOOR m10 n01 STRAP & RATCHET LIGHT DUTY L-ARM	2.000	PC		-

*** End of Item ***

*** End of Report ***

DWG NO	REV
3-484-000076	00

[illegible]

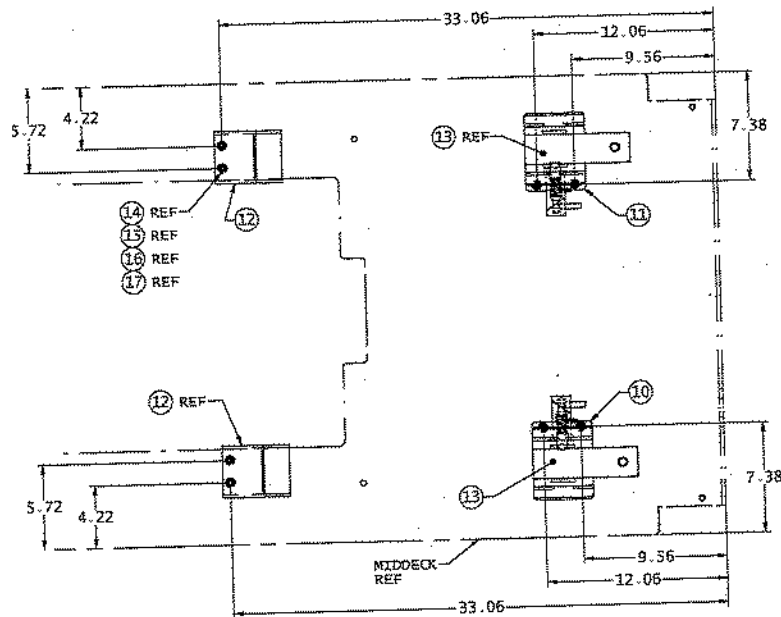
ADDITIONAL INFORMATION (OPTIONAL) ANY INFORMATION THAT MAY BE OBTAINED FROM THE FBI OR OTHER AGENCIES SHOULD BE REPORTED TO THE FBI AND THE BUREAU OF INVESTIGATION OF THE DEPARTMENT OF JUSTICE AND THE BUREAU OF INVESTIGATION OF THE DEPARTMENT OF JUSTICE AND THE BUREAU OF INVESTIGATION OF THE DEPARTMENT OF JUSTICE		TV TO BE SENT AD: TO: WASH. BUREAU FROM: NEW YORK SUBJECT: RE: MURDER OF MARTIN LUTHER KING, JR.		FILE # SEE 8/4 DATE 8/14/68 TIME 11:00 AM BY [Signature] REMARKS [Signature]		PRINT 1 OF 2 PAGE 2	
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GRID ASSY BIAS CUT L-ARM

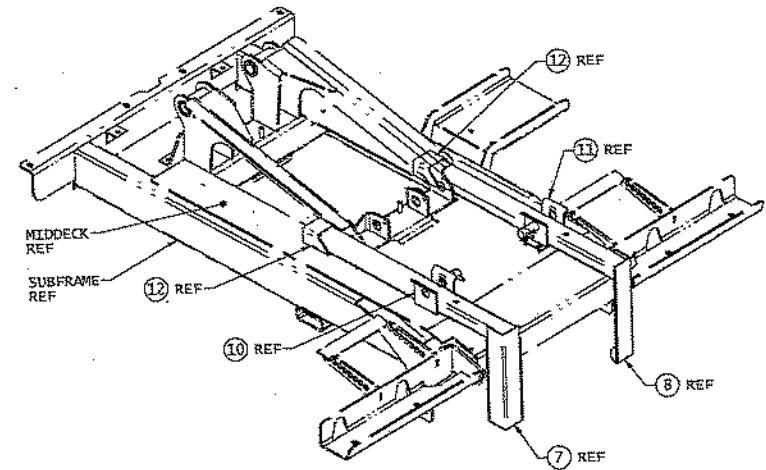
DWG NO 3-484-000076 REV 00

NOTE:

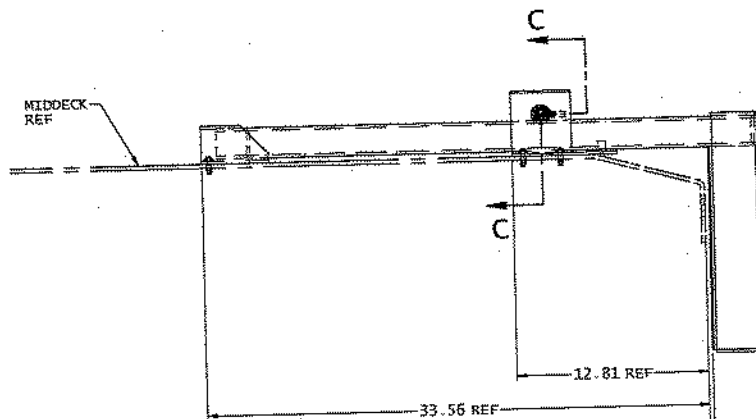
1. (FACTORY INSTALLATION - BEFORE INSTALLING MIDDECK)
DRILL 0.391 DIA HOLES IN MIDDECK AND INSTALL ITEM 17 (TYP-8 PLACES).
LOCATE HOLES PER DIMS SHOWN IN VIEW B-B, OR USE DRILL TEMPLATE PSM805060201
2. BOND ITEM 13 TO ITEM 10 & 11
3. ASSEMBLE ITEM 19 (CAM LOCK PIN) WITH THE CHAMFER FACING UP WHEN IN THE CLOSED/STORED POSITION. ITEM 19 MUST SECURE ITEM 7 & 8 (T-37 ARMS) FROM LIFTING OUT OF BRKT.
4. APPLY 242 LOCTITE TO ITEM 21 (PIN) AND TIGHTEN SECURELY



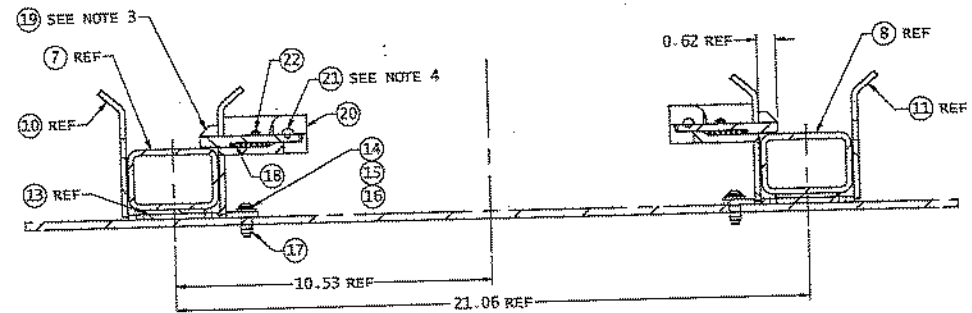
TOP VIEW
ITEMS 7 & 8 NOT SHOWN FOR CLARITY



AUX VIEW
SCALE: 0.12



L-ARM STORAGE
SCALE: 0.19



SECTION C-C
SCALE: 0.50

THIS DRAWING IS THE PROPERTY OF JERRELLIAN. IT IS TO BE USED FOR THE PURPOSES SPECIFIED ONLY. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF JERRELLIAN.		DATE: 02/25/01 BY: JERRELLIAN CHECKED: JERRELLIAN APPROVED: JERRELLIAN	ITEM: GRID ASSY BIAS CUT L-ARM SCALE: 0.25 REV: 00 DWG NO: 3-484-000076	PAGE: 2 OF 2 SHEET: 2
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***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 07/29/05

Item: 3484000077

GRID ASSY T-37 MANUAL PIVOTING

From Item: 3484000077

To Item: 3484000077

Last Changed Date:

Reference: D/3834

Revision: #0/0

BIN:

UOM: PC

Quantity

1

Receive into Whse: HYKS

Ball Dr	Bin	Description	QtyPer	UOM	Reference	Effectivity
-oon Sz Component Type Location						
01	C 3170000390	M BOOM WELD U/L CROSSTUBE	1.000	PC		-
02	B 4691000427	P 010203 h04 m03 PIN 2.75 DIA x 5.05 PIVOT	1.000	PC		-
03	A 4949000047	P 020304 d08 e12 WASHER 5.00"OD X 2.84"ID X .063"THK	2.000	pc		-
04	A 7754000024	P 010304 c18 g04 RING #WSM-275 RETAINING	1.000	pc		-
05	D 3484000046	M 080201 REPS RB GRID ASSY RH (4.00 SQ T37)	1.000	PC		-
06	D 3484000047	M 080201 090201 GRID ASSY LH (4.00 SQ T37)	1.000	PC		-
07	C 3020000029	M 070201 n01 WAO LH L-ARM WELD (PLATED)	1.000	PC		-
08	C 3020000030	M 070201 n01 WAO RH L-ARM WELD (PLATED)	1.000	PC		-
09	B 7894000034	P FLOOR m10 n01 STRAP & RATCHET LIGHT DUTY L-ARM	2.000	PC		-
10	3 3178000446	M BRKT WELD T-37 STORAGE REAR LH	1.000	PC		-
11	C 3178000447	M BRKT WELD T-37 STORAGE REAR RH	1.000	PC		-
12	3 4913000503	M TUBE 2.50 x 2.50 x 0.19 x 4.50	2.000	PC		-
13	A 4090000013	M BELT 0.12 x 2.00 x 7.00	2.000	PC		-
14	N 7114140818	P 000108 A125 x0 CAPSCREW 0.25"-20 X 1.00" SS BT HD	8.000	PC		-
15	N 7950140000	P 000104 A96 x01 LOCKWASHER .25" NOM REG CS	8.000	PC		-
16	N 7950140143	P 000102 x01 FLATWASHER 0.25 NOM NARROW SS	8.000	PC		-
17	A 7413000002	P c14 NUTSERT .25"-20NC AVK INDUSTRIAL	8.000	pc		-
18	A 7843000006	P 030505 101604 SPRING .66"OD X 1.75 LG COMP (MUSIC)	2.000	pc		-
19	A 4691000186	P 030505 102206 PIN 0.75 DIA X 3.313	2.000	PC		-
20	A 4254000005	P 030505 102205 CAP 1.25"DIA X 1.22" LONG	2.000	PC		-
21	A 4763000184	P 102205 d05 ROD .38"DIA C1040/45 CF - 1.75" LG	2.000	pc		-
22	N 7440030000	P 000103 c15 FITTING 0.25-28NF - STRAIGHT GREASE	2.000	PC		-
23	B 7330000036	P 040706 c02 c03 DECAL - WARNING - SECURE VEHICLE	2.000	pc		-
24	N 7330000037	P 040706 c02 f02 DECAL - MOVING PARTS	1.000	pc		-
25	A 7330000553	P DECAL L-ARM STORAGE	2.000	PC		-
26	B 7330000383	P c09 f02 DECAL L-ARM SAFETY	2.000	PC		-
27	A 7330000384	P c09 DECAL T37 PATENT 4" GRID (SERVICE)REV2	2.000	PC		-

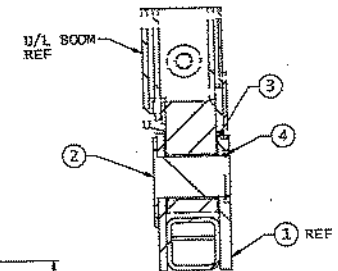
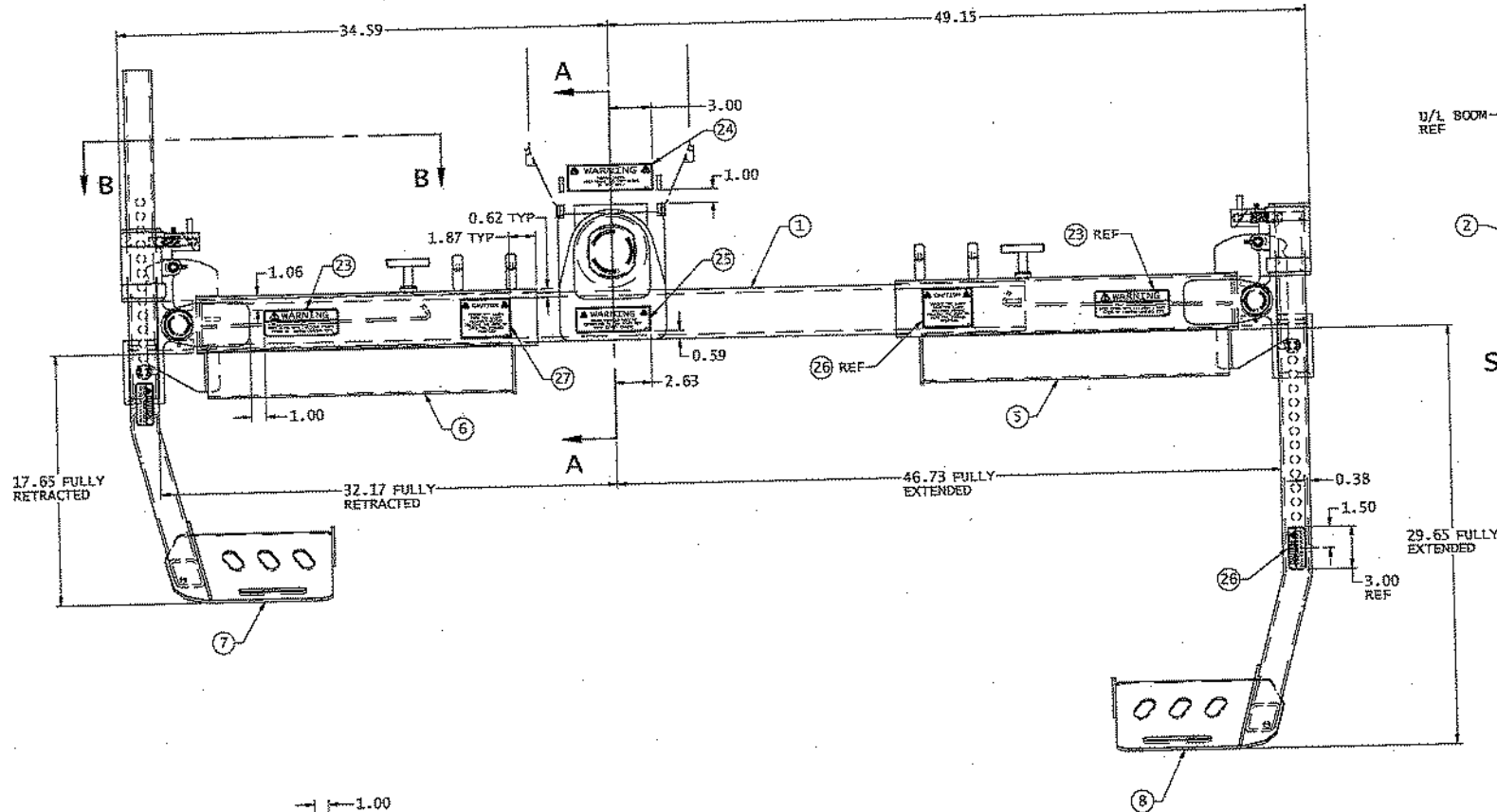
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*** End of Report ***

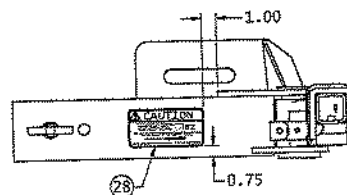
GRID ASSY T-37 MANUAL PIVOTING

DWG NO 3-484-000077 REV 00

NOTE: ITEM 9 (WHEEL STRAPS) NOT SHOWN FOR CLARITY



SECTION A-A



SECTION B-B
TYP-2 PLACES
LH SIDE SHOWN

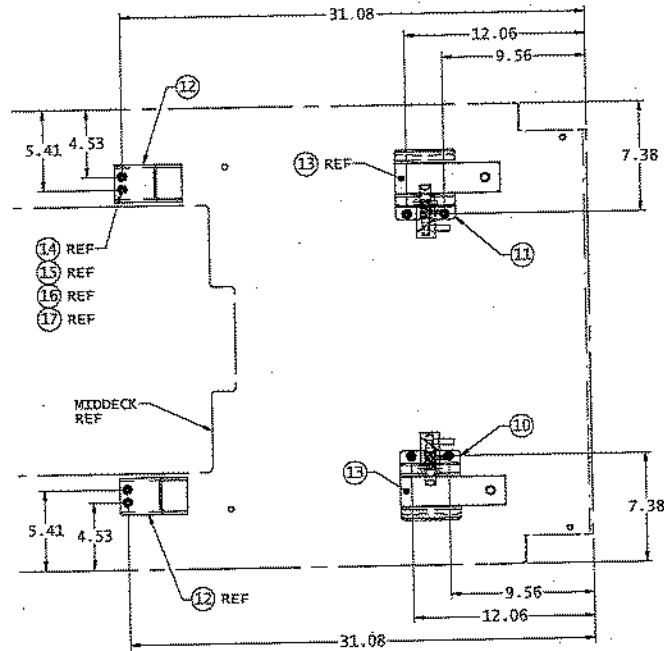
JEFFERSON Aircraft Maintenance Division		DATE: 06/25/03	REV: 00
THIS DRAWING IS THE PROPERTY OF THE U.S. AIR FORCE. IT IS TO BE KEPT IN THE U.S. AIR FORCE AND NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM THE U.S. AIR FORCE.		1 OF 2	
GRID ASSY T-37 MANUAL PIVOTING		3-484-000077	
DATE: 06/25/03		REV: 00	

GRID ASSY T-37 MANUAL PIVOTING

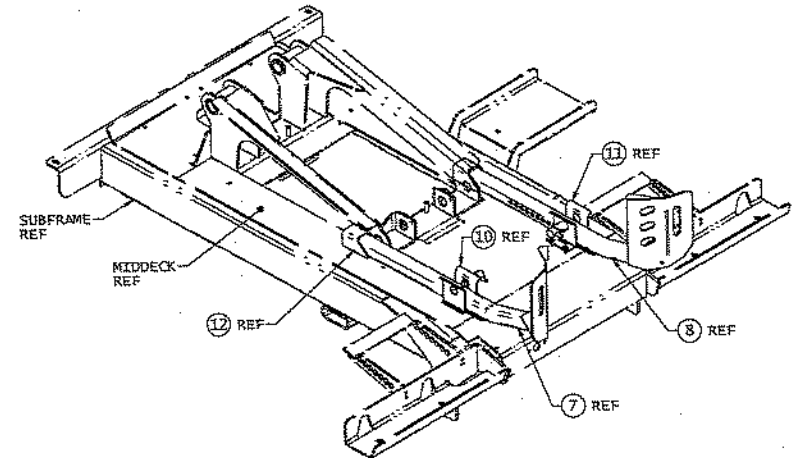
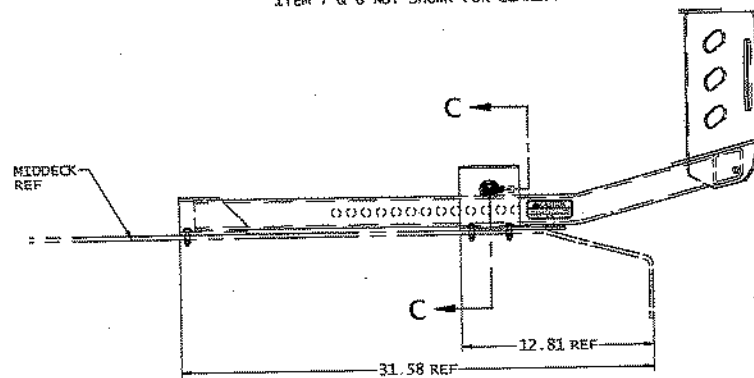
QWG NO 3-484-000077 REV 00

NOTE:

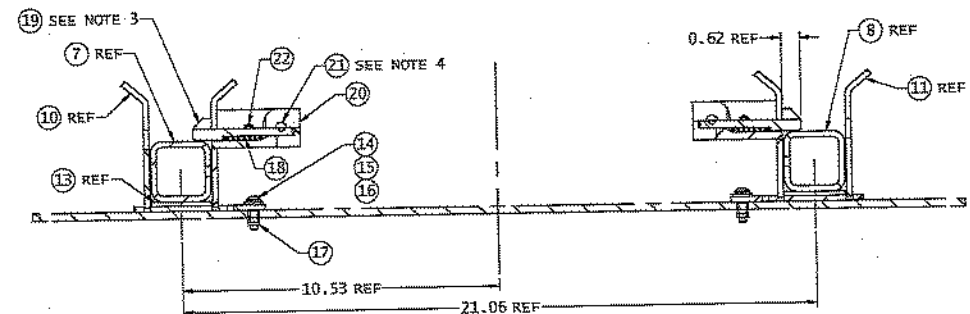
1. (FACTORY INSTALLATION - BEFORE INSTALLING MIDDECK)
DRILL 0.391 DIA HOLES IN MIDDECK AND INSTALL ITEM 17 (TYP-8 PLACES).
LOCATE HOLES PER DIMS SHOWN IN VIEW B-B, OR USE DRILL TEMPLATE PSM805060201.
2. BOND ITEM 13 TO ITEM 10 & 11
3. ASSEMBLE ITEM 19 (CAM LOCK PIN) WITH THE CHAMFER FACING UP WHEN IN THE CLOSED/STORED POSITION. ITEM 19 MUST SECURE ITEMS 7 & 8 (T-37 ARMS) FROM LIFTING OUT OF BRKT.
4. APPLY 242 LOCITE TO ITEM 21 (PIN) AND TIGHTEN SECURELY



TOP VIEW
ITEM 7 & 8 NOT SHOWN FOR CLARITY



AUX VIEW
SCALE: 0.12



SECTION C-C
SCALE: 0.50

JERRIDAN MANUFACTURING		REV 2 OF 2
GRID ASSY T-37 MANUAL PIVOTING		DATE 06/20/05
SCALE 0.25		DATE 06/20/05
QWG NO 3-484-000077		REV 00

Wheelgrid Hydraulic Lines & Fittings

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 07/29/05

Item: 3509530098

HYD GRID HLF INST MPL-40

From Item: 3509530098

To Item: 3509530098

Last Changed Date:

Reference: D/3774B

Revision #0/0

BIN: WA03

UOM: PC

Quantity

1

Receive into Whse: MYPT

Ball Dr

Bin

-oon Sz Component Type Location

Description

QtyPer UOM

Reference

Effectivity

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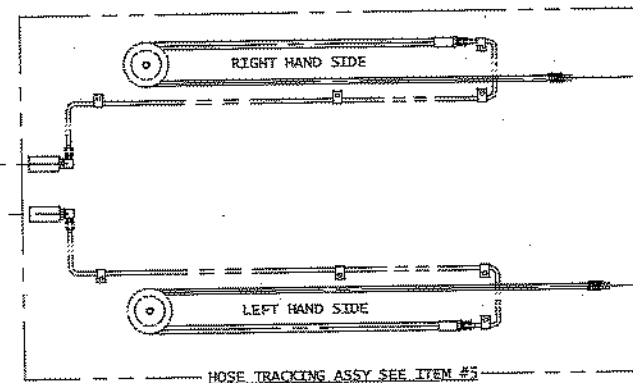
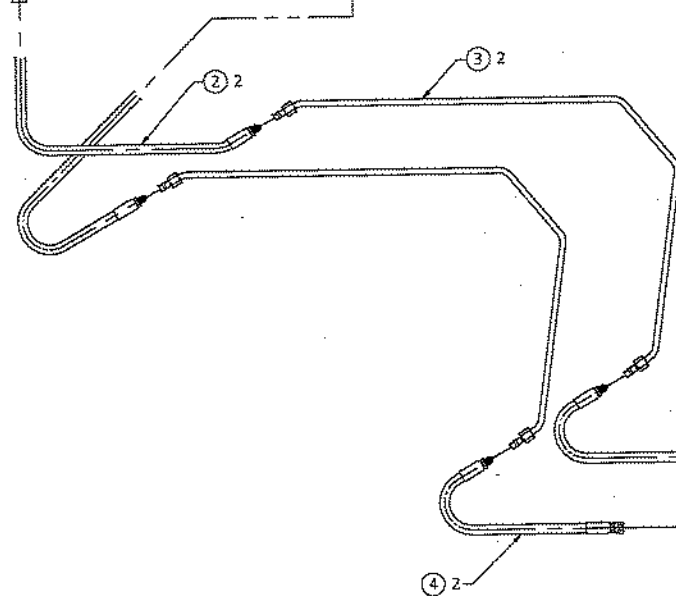
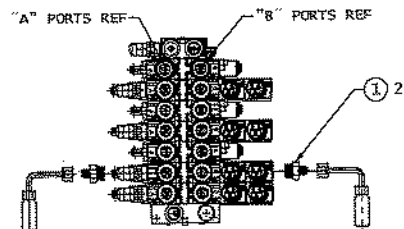
01	7445060843	P	040303 b07 b43	ADAPTER #6JIC(M) x #8"O"(M) STR	2.000	pc	-
02	N 4569123054	M	WA02	HOSE .38 x 54 #6 ST(M) - #6 L90(FSW)	2.000	PC	-
03	C 7912000202	P	k-floor	TUBE ASSY 0.38 OD x 0.049W x 112.25	2.000	PC	-
04	N 4570000229	M	WA03	HOSE 0.25 x 14.50 #4 ST(FSW) - #6 ST(M)	2.000	PC	-
05	D 3509870046	M	WA00	UNDERLIFT ASSY HOSE TRACKING	1.000	PC	-
06	D 3509530061	M	WA00	HYDRAULIC SCHEMATIC GRID	1.000	PC	-

*** End of Item ***

*** End of Report ***

HYD GRID HLF INST MPL-40

DWG NO 3-509-530098 REV 00



TO GRID HOSE ASSY
SEE ITEM #6

HYD GRID HLF INST MPL-40 DATE 02/02/95 BY 377A CHK 377A APP 377A REV 00		1 OF 1 7 7
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***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 07/29/05

Item: 3509870046

UNDERLIFT ASSY HOSE TRACKING

Reference: D/3627

From Item: 3509870046

To Item: 3509870046

Last Changed Date:

Revision #0/1/3666

BIN: WA00

UOM: PC

Quantity

1

Receive into Whse: MYPT

Ball Dr

Bin

-oon Sz Component Type Location

Description

QtyPer UOM

Reference

Effectivity

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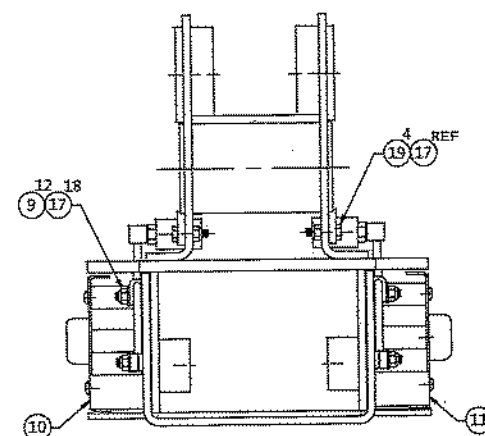
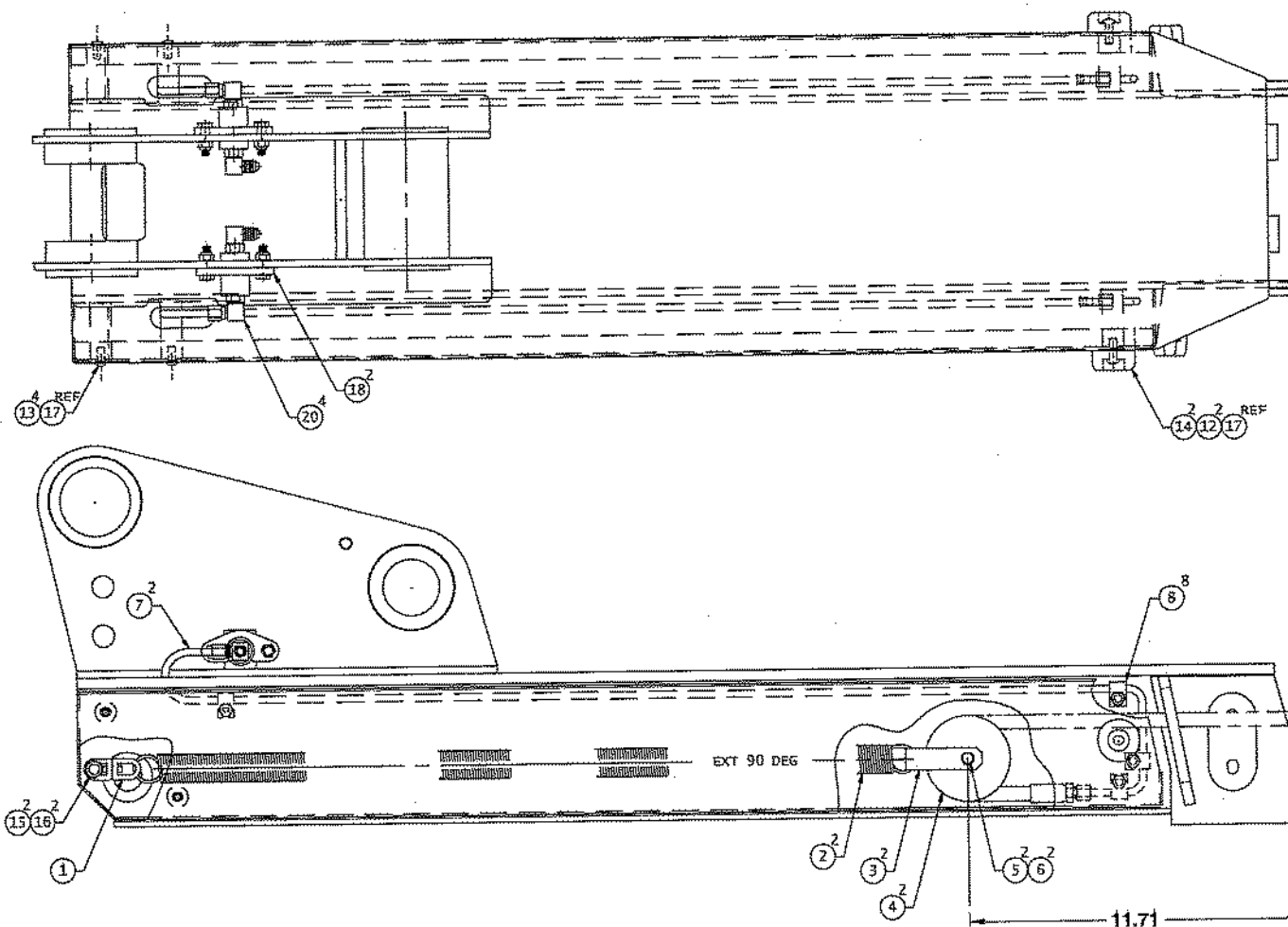
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01	A	7592000004	P	102405 a07	LINK SWIVEL #S0128-0004	2.000	PC	-
02	B	78430000031	P	a07	SPRING EXT 1.00 OD X 8.00/ 0.095 W	2.000	PC	-
03	B	4706003501	M	WBPS	PLATE 14GA X 0.75 X 5.80	2.000	PC	-
04	A	7719000004	P	a08	ROLLER	2.000	PC	-
05	A	76910000040	P	a07	PIN CLEVIS 0.38 DIA X 1.50 LG	2.000	PC	-
06	A	76910000042	P	a07	PIN COTTER 5/32" DIA. X 1"	2.000	PC	-
07	C	7912000174	P	j59	TUBE 0.25 OD X 0.049W X 42.18	2.000	PC	-
08	A	72740000073	P	102405 b19	HOSE CLAMP 0.25 DIA	8.000	PC	-
09	N	7660142604	P	000102 a03	LOCKNUT .25"-20NC NYLOK STAINLESS	12.000	pc	-
10	C	4706004066	M	WBPS	PLATE 14GA X 6.14 X 42.09 LH	1.000	PC	-
11	C	4706004067	M	WBPS	PLATE 14GA X 6.14 X 42.09 RH	1.000	PC	-
12	N	7114140618	P	000108	CAPSCREW .25 - 20NC x .75 SS BTHD SC	2.000	pc	-
13	N	7114140427	P	000102	CAPSCREW .25"-20NC X .50" SS BH w/PATCH	4.000	PC	-
14	A	71890000019	P	102306 a05	BUMPER RUBBER 1.50 X DAI BOLT-ON	2.000	PC	-
15	N	7950160153	P	000108	FLAT WASHER .38" NOM REG S/S	2.000	PC	-
16	N	7660162604	P		LOCKNUT 0.38-16 NC S/S NYLOC	2.000	PC	-
17	N	7950140143	P	000102 x01	FLATWASHER 0.25 NOM NARROW SS	18.000	PC	-
18	B	36190000001	M	WS02	MANIFOLD WELDMENT QP40 GRIDS	2.000	PC	-
19	N	7115140850	P	080303 A127 x0	CAPSCREW .25"-20NC X 1.00" HEX HEAD	4.000	pc	-
20	*	7445040445	P	020506 b38	ELBOW 90 MRG #4JIC(M) -#4"O" (M)	4.000	pc	-

*** End of Item ***

*** End of Report ***

GENERAL NOTES
DO NOT SCALE DRAWING
BREAK SHARP CORNERS
DENOTES "CRITICAL"
DIMENSION AND MUST
BE CONTROLLED BY
STATISTICAL ANALYSIS



REVISIONS				JERRY-DAN CORP.			
REV	DATE	DESCRIPTION	BY	DATE	DESCRIPTION	BY	DATE
1	10/26/83	PICTURE CHANGER TO BASE ROOM	DNV	10/26/83	PICTURE CHANGER TO BASE ROOM	DNV	10/26/83
2	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83
3	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83
4	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83
5	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83
6	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83
7	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83
8	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83
9	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83
10	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83
11	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83
12	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83
13	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83
14	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83
15	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83
16	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83
17	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83
18	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83
19	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83
20	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83	PICTURE CHANGER TO BASE ROOM	DNV	11/2/83

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 07/29/05

Item: 3509530061

HYDRAULIC SCHEMATIC GRID

Reference: D/3653

From Item: 3509530061

To Item: 3509530061

Last Changed Date:

Quantity	1	Receive into Whse: MYPT	Revision #0/0	BIN: WA00	UOM: PC
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Ball Dr	Bin				
-oon Sz Component Type Location	Description	QtyPer	UOM	Reference	Effectivity
====	=====	=====	=====	=====	=====
01 N 4570000210 M	HOSE 0.19 x 64.50 #4JIC ST(RM)-ST(FSW)	2.000	PC		-
02 * 7445040445 P 020506 b38	ELBOW 90 MRG #4JIC(M)-#4"O"(M)	6.000	pc		-
03 N 4570000211 M	HOSE 0.19 x 18.00 #4JIC ST(RM)-ST(FSW)	2.000	PC		-
04 N 4570000212 M	HOSE 0.19 x 25.25 #4JIC ST(RM)-ST(FSW)	2.000	PC		-

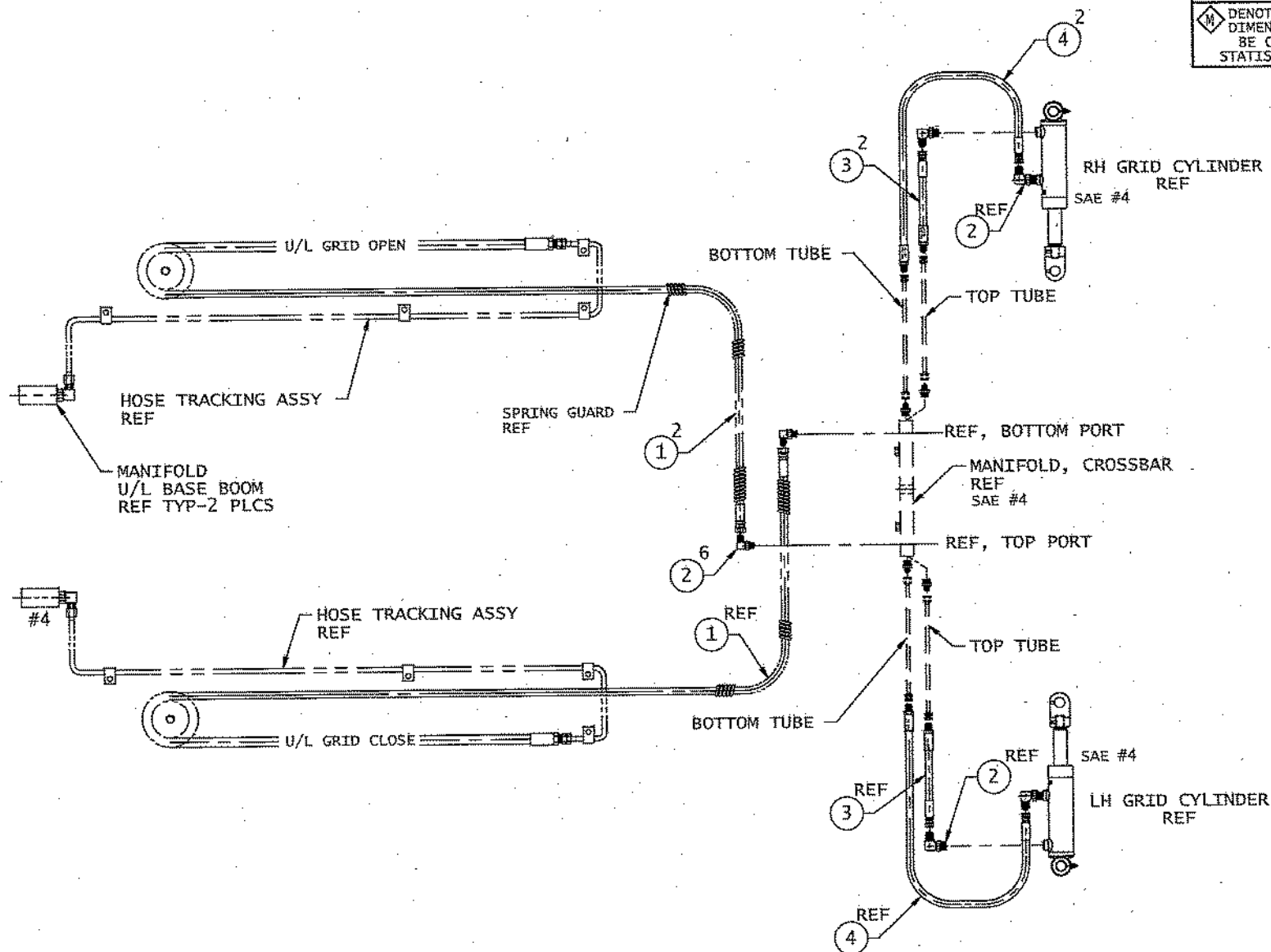
*** End of Item ***

*** End of Report ***

GENERAL NOTES

DO NOT SCALE DRAWING
BREAK SHARP CORNERS

H DENOTES "CRITICAL"
DIMENSION AND MUST
BE CONTROLLED BY
STATISTICAL ANALYSIS



TOLERANCES (EXCEPT AS NOTED)		JERRY-DAN CORP. GREENCASTLE, PA.	
DECIMAL	NAT'L SEE ABOVE	SCALE	DRAWN BY SCH
2 PLACE .002		NTS	DWG NO. 3653
3 PLACE .003			
ANGULAR		TITLE	HYDRAULIC SCHEMATIC, GRID
40° 30'		DATE	12-08-03
LIMITS ARE TO BE NON-CUMULATIVE PER A LINE OF DIMENSIONS.		WORK ASS'Y	3-484-000060
		ORIGINAL	
REV	ERN	DESCRIPTION	DATE
			DRN

DRAWING NO. C3-509-530061

Light Pylon Installation

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/01/05

Item: 2509570054

LIGHT PYLON INSTALL 37" MPL

From Item: 2509570054

To Item: 2509570054

Reference:D/3774E

Last Changed Date:

Revision #0/0

BIN: WA03

UOM: PC

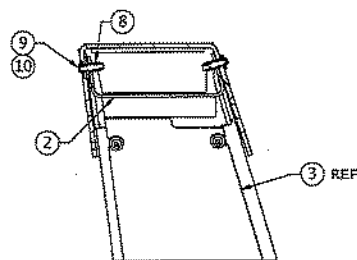
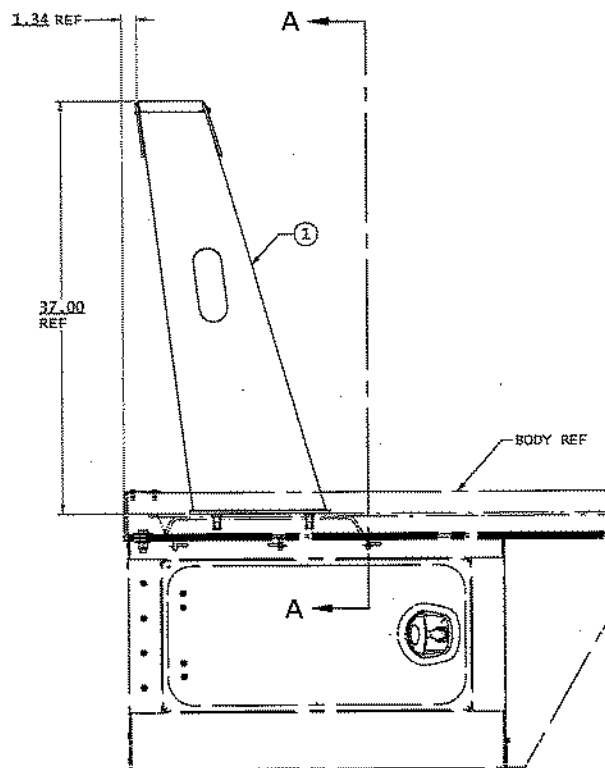
Quantity	1	Receive into Whse: MYPT		Reference: D/3774E		Last Changed Date:	
Ball Dr	Bin						
-oon Sz Component Type Location	Description	QtyPer	UOM	Reference	Effectivity		
====	=====	=====	=====	=====	=====		
01 D 3509570103	M WA00	LIGHT PYLON WELDMENT 37" MPL	1.000	PC	-		
02 D 4263000689	M WBPS	CHANNEL 0.12 x 9.13 x 55.32 ALUM	1.000	PC	-		
03 C 4706005002	M WA00	PLATE 0.12 x 14.94 x 34.12 ALUM	2.000	PC	-		
04 A 7949000058	P	WASHER 0.88 OD X 0.53 ID X 0.187" ZINC	4.000	PC	-		
05 3 7796000091	P e01	GASKET .06 X 3.62 X 12.50 NEOPRENE	2.000	PC	-		
06 N 7115181450	P 080305 a53 x01	CAPSCREW .50"-13NC X 1.75" HEX HEAD	4.000	pc	-		
07 N 7950180161	P 030602 080305	FLATWASHER .50" NOM WIDE - PLATED	4.000	PC	-		
08 A 7413000002	P c14	NUTSERT .25"-20NC AVK INDUSTRIAL	8.000	pc	-		
09 N 7114140818	P 000108 A125 x0	CAPSCREW 0.25"-20 X 1.00" SS BT HD	8.000	PC	-		
10 N 7950140143	P 000102 x01	FLATWASHER 0.25 NOM NARROW SS	20.000	PC	-		
11 N 7114140618	P 000108	CAPSCREW .25 - 20NC x .75 SS BTHD SC	12.000	pc	-		
12 A 7661000019	P 000102	U-NUT .25"-20NC	12.000	pc	-		

*** End of Item ***

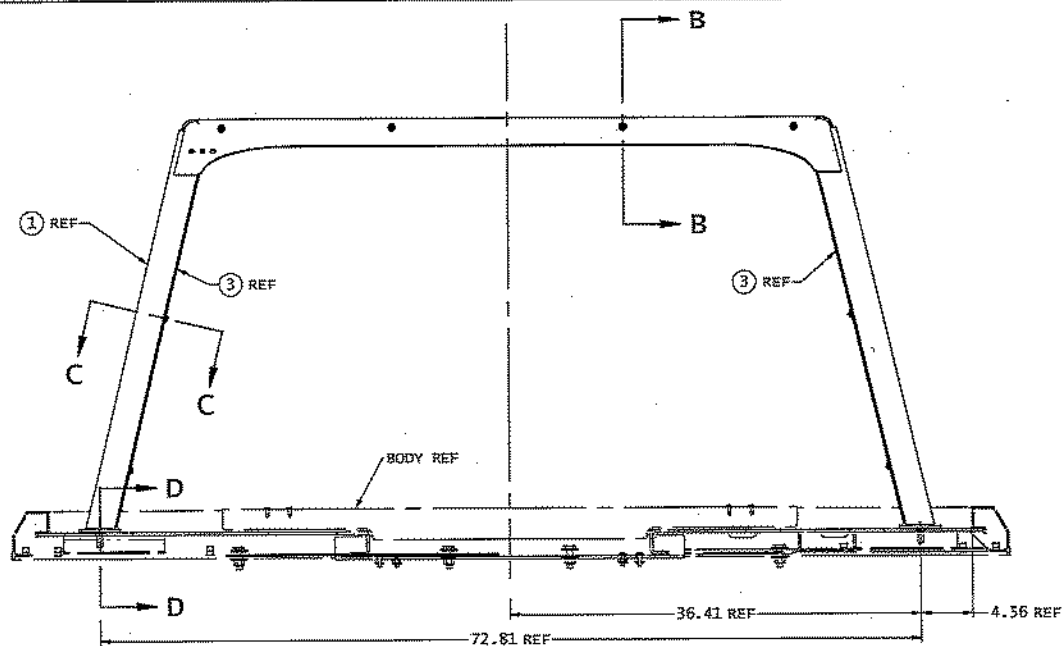
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LIGHT PYLON INSTALL 37" MPL-40

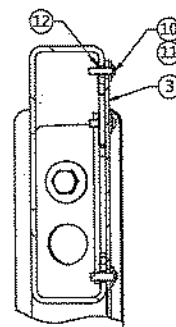
DWG NO 2-509-570054 REV 00



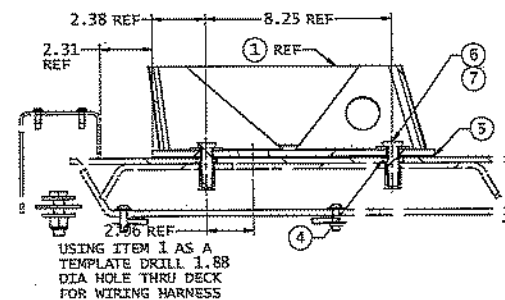
SECTION B-B
SCALE: 0.38



SECTION A-A



SECTION C-C
SCALE: 0.50



SECTION O-D
SCALE: 0.38

JEFFERSON DESIGN & CONSTRUCTION		REV: 005 8/78 SHEET: 1 OF 1
THIS DRAWING AND ALL PARTS THEREOF ARE THE PROPERTY OF JEFFERSON DESIGN & CONSTRUCTION. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. IT IS NOT TO BE REPRODUCED, COPIED, OR IN ANY MANNER USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF JEFFERSON DESIGN & CONSTRUCTION.		TITLE: LIGHT PYLON INSTALL 37" MPL-40 SCALE: 0.38 DATE: 02/25/05 DWG NO: 2-509-570054 REV: 00

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/01/05

Item: 2509570057

LIGHT PYLON INSTALL 28.31" MPL

From Item: 2509570057

To Item: 2509570057

Reference: D/3774E

Last Changed Date:

Revision #0/0

BIN: WA03

UOM: PC

Quantity

1

Receive into Whse: MYPT

Ball Dr

Bin

-oon Sz Component Type Location

Description

QtyPer UOM

Reference

Effectivity

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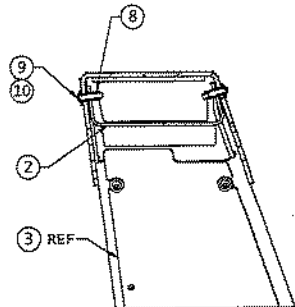
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01	D	3509570106	M	WA03	LIGHT PYLON WELDMENT 28.31 MPL-40	1.000	PC	-
02	D	4263000689	M	WBPS	CHANNEL 0.12 x 9.13 x 55.32 ALUM	1.000	PC	-
03	B	4314000102	M	WBPS	COVER PLATE 0.12 x 13.74 x 25.62	2.000	PC	-
04	A	7949000058	P		WASHER 0.88 OD x 0.53 ID x 0.187" ZINC	4.000	PC	-
05	3	7796000091	P	e01	GASKET .06 X 3.62 X 12.50 NEOPRENE	2.000	PC	-
06	3	7115181650	P	030601 a54	CAPSCREW 0.50"-13NC X 2.00" HEX HEAD	4.000	pc	-
07	N	7950180161	P	030602 080305	FLATWASHER .50" NOM WIDE - PLATED	8.000	PC	-
08	A	7413000002	P	c14	NUTSERT .25"-20NC AVK INDUSTRIAL	8.000	pc	-
09	N	7114140818	P	000108 A125 x0	CAPSCREW 0.25"-20 X 1.00" SS BT HD	8.000	PC	-
10	N	7950140143	P	000102 x01	FLATWASHER 0.25 NOM NARROW SS	20.000	PC	-
11	N	7114140618	P	000108	CAPSCREW .25 - 20NC x .75 SS BTHD SC	12.000	pc	-
12	A	7661000019	P	000102	U-NUT .25"-20NC	12.000	pc	-
13	N	7660182601	P	000105 x01	LOCKNUT .50"-13NC GR5 HEC NYLOC	4.000	PC	-

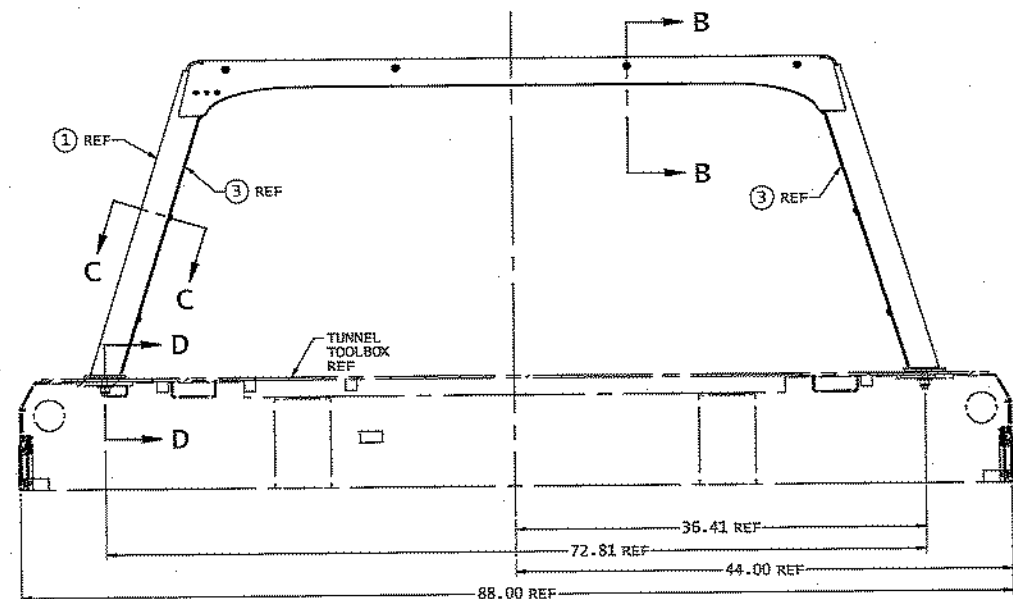
*** End of Item ***

*** End of Report ***

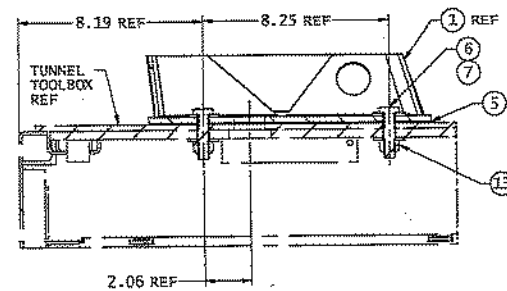
DWG NO	REV
2-509-570057	00



SECTION C-C
SCALE: 0.38



SECTION C-C
SCALE: 0.38



SECTION D-D
SCALE: 0.38

- NOTES:
1. USE HOLES IN BACKING PLATE ON THE INSIDE OF TUNNEL AS A TEMPLATE AND DRILL (QTY-4)
0.531 DIA MOUNTING HOLES AND DRILL (QTY-1 LEFT SIDE ONLY)
1.875 DIA WIRE HARNESS HOLE

[illegible]



Decal Installation

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/19/05

Item: 2509290058

DECAL INST MPL-40

From Item: 2509290058

To Item: 2509290058

Reference: D/3774D

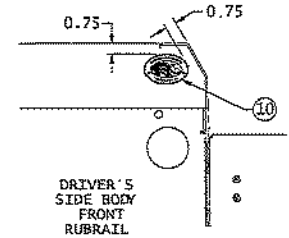
Last Changed Date: 07/28/05

Revision #A/1/3858

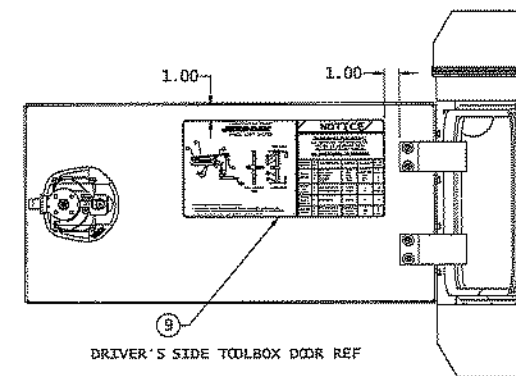
Quantity		1	Receive into Whse: MYPT		Revision #A/1/3858	BIN: FG00	UOM: PC		
Ball Dr	Bin								
-con	Sz	Component	Type	Location	Description	QtyPer	UOM	Reference	Effectivity
---	--	-----	-----	-----	-----	-----	---	-----	-----
01	A	7330000546	P	c02	DECAL WINCH CABLE WRAP WARNING	1.000	PC		-
02	A	7330000414	P	a06	DECAL SELF LOADER PATENT	1.000	PC		-
03	A	7330000272	P	040606 c06	DECAL OIL LEVEL CAUTION	1.000	pc		-
04	B	7330000433	P	040605 c12 f01	DECAL NAMEPLATE "JERR-DAN" BLACK REV1	2.000	PC		-
05	D	7330000500	P	ER01	DECAL SERIAL NUMBER/MODEL NUMBER/RATING	1.000	PC		-
06	D	7330000307	P	ER01	DECAL S.T.A.R. PLACARD REV1	1.000	PC		-
07	A	7330000001	P	a12 ER01	DECAL ALUMINUM SERIAL NUMBER rev3	1.000	pc		-
08	A	7759000004	P	000103 c20	POP RIVET .13"DIA X .13" GRIP ALUM	12.000	PC		-
09	C	7330000541	P	c02	DECAL LUBRICATION MPL40 (VINYL)	1.000	PC		-
10	A	7330000143	P	040704 c03 c05	DECAL - "PROUDLY MADE IN THE USA"	1.000	pc		-
11	C	7330000138	P	040707 c03 f02	DECAL ALUM W/L CHECKLIST rev1	1.000	PC		-
12	A	7330000139	P	040704 c03 c05	DECAL - CHECKLIST REMINDER	1.000	pc		-
13	B	7330000122	P	040704 c03	DECAL ALUMINUM - W/L WARNING	2.000	pc	3858	08/11/05-
*** End of Item ***									

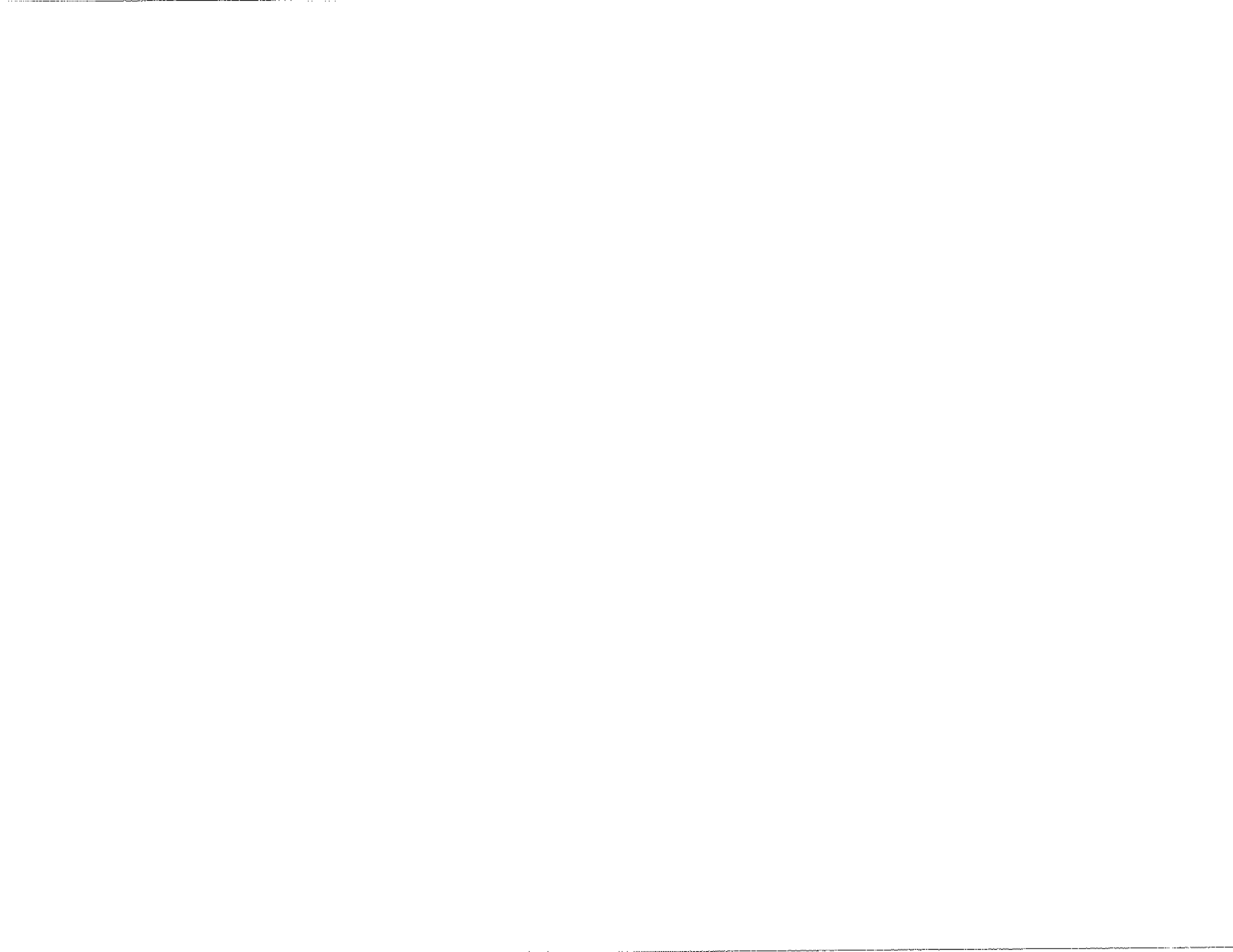
*** End of Report ***

DWG NO	REV
2-509-290058	01



ITEM #12 NOT SHOWN. APPLY
TO EITHER THE DRIVER'S SIDE
DASH OR SUNVISOR.

[illegible]



Body Lights & Wiring Installation

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/01/05

Item: 3509330096

BODY LIGHT & WIRING MPL-40

From Item: 3509330096

To Item: 3509330096

Reference:D/3774E

Last Changed Date:

Quantity		1		Receive into Whse: MYPT		Revision #0/0		BIN: WA03		UOM: PC	
Ball Dr	Bin	oon Sz	Component Type	Location	Description	QtyPer	UOM	Reference	Effectivity		
===	==	=====	=====	=====	=====	=====	==	=====	=====		
01	D	7552000292	P	k07	HARNESS CAB-SUBFRAME MPL40 rev02	1.000	PC		-		
02	A	7457000004	P	100106 g01 h08	BREAKER 50 AMP CIRCUIT #75155	1.000	PC		-		
03	N	7792000001	P		SCREW #10 X .75 SELF TAPPING SS	2.000	PC		-		
04	N	8977530200	P	g04	WIRE 10GA TYPE SXL RED	3.000	FT		-		
05	N	8597650002	R	e-floor e22	WIRE .25" CONVOLUTED LOOM	3.000	ft		-		
06	N	7345211902	P	c19 j17	TERMINAL #10 10-12 GA NON-INSUL RING	1.000	pc		-		
07	N	7345221902	P	022506 c19 j17	TERMINAL .25"NON-INSULATED O-RING #153145	1.000	PC		-		
08	N	7346000039	P	d14 g-floor j0	TUBING .25"ID HS W/ADHESIVE - 48" LG	.500	pc		-		
09	N	7111141050	P	080306	CAPSCREW .25"-20NC X 1.25" HEX HEAD	4.000	pc		-		
10	N	7660142600	P	000108 x01	LOCKNUT .25"-20NC GR2 NYLOK HEX	4.000	pc		-		
11	N	7950140141	P	a23	FLATWASHER .25" NOM NARROW	6.000	pc		-		
12	D	7552000290	P	k07	HARNESS, LH BODY MPL40 rev01	1.000	PC		-		
13	D	7552000291	P	k07	HARNESS RH BODY MPL40 rev01	1.000	PC		-		
14	A	7590000131	P	101407 e09	LIGHT #30-86-202 WRAP AROUND MARKER	2.000	pc		-		
15	A	7590000128	P	101506 e09	LIGHT #30-86-101 STOP-TAIL-TURN	2.000	pc		-		
16	A	7590000130	P	101504 e09	LIGHT #30-86-103 VERTICAL MT. BACKUP	2.000	pc		-		
17	N	7111100810	P		SCREW #10-24NC X 1.00" RH MACHINE	24.000	pc		-		
18		7661000002	P	000104 022506	HEX NUT #10-24 W/LOCKWASHER - PLATED	24.000	pc		-		
19	A	7577000194	P	022504 a08 h08	KIT CHASSIS WIRING CONNECTOR	1.000	pc		-		
20	A	7590000048	P	f03 loft	LIGHT #10205Y SIDE MARKER - AMBER	2.000	pc		-		
21	A	7493000009	P	101607 b01 f05	GROMMET BLACK (2.50 DIA LIGHT) #82839	2.000	pc		-		
22	B	7590000185	P	101007 d18 e11	LIGHT #80466 ROUND RUBBER WORK	2.000	PC		-		
23	A	7291000003	P	101204 d22 f12	CONNECTOR 4-ROUND FEMALE	1.000	PC		-		
24	N	7111140613	P	080304 A125	SCREW .25"-20NC X .75" TH MACHINE	2.000	pc		-		
25	N	7950140000	P	000104 A96 x01	LOCKWASHER .25" NOM REG CS	2.000	PC		-		
26	A	7413000002	P	c14	NUTSERT .25"-20NC AVK INDUSTRIAL	2.000	pc		-		
27	A	7011000003	P	g02 i27 106	ALARM, BACK-UP #ECC0520 97db	1.000	PC		-		
28	A	7894000042	P	j40	TIE STRAP, .25 x 8.39 PUSH IN	25.000	PC		-		
29	3	7870000115	P	a20	SWITCH 2.5" ADJUSTABLE PIN SWITCH	2.000	PC		-		
30	N	7790100856	P	000103 c21 x01	SCREW #10 X .50" HWH SELF-TAPPING	4.000	pc		-		
31	A	7590000273	P	e10	LIGHT DOME LAMP 1.75 x 2.53 x 4.58 #4249	2.000	PC		-		

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/01/05

Item: 3509330096

BODY LIGHT & WIRING MPL-40

From Item: 3509330096

To Item: 3509330096

Reference:D/3774E

Last Changed Date:

Quantity	1	Receive into Whse: MYPT	Revision #0/0	BIN: WA03	UOM: PC
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Ball Dr	Bin						
-oon Sz	Component	Type	Location	Description	QtyPer	UOM	Reference
=====	=====				=====	=====	=====
32	A 7661000047	P		NUT NYLON PANNEL #8-10 GRIP 0.03-0.13"	4.000	PC	
*** End of Item ***							

*** End of Report ***

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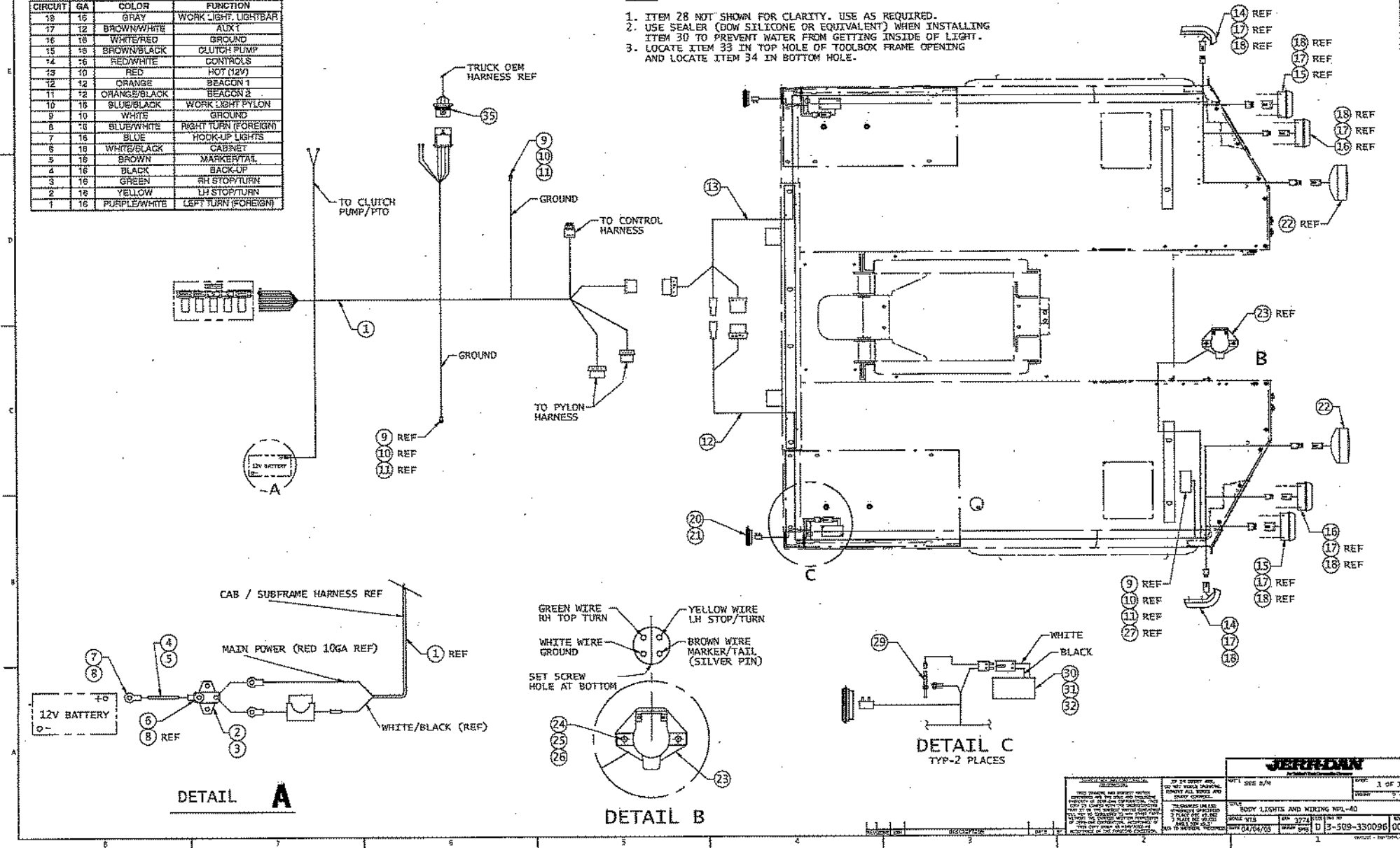
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DWG NO	REV
3-509-330096	00

CIRCUIT	GA	COLOR	FUNCTION
18	16	GRAY	WORK LIGHT, LIGHTBAR
17	12	BROWN/WHITE	AUX 1
16	16	WHITE/RED	GROUND
15	15	BROWN/BLACK	CLUTCH PUMP
14	16	RED/WHITE	CONTROLS
13	10	RED	HOT (12V)
12	12	ORANGE	BEACON 1
11	12	ORANGE/BLACK	BEACON 2
10	16	BLUE/BLACK	WORK LIGHT PYLON
9	10	WHITE	GROUND
8	16	BLUE/WHITE	RIGHT TURN (FOREIGN)
7	16	BLUE	HOCK-UP LIGHTS
6	16	WHITE/BLACK	CABINET
5	19	BROWN	MARKER/TAIL
4	16	BLACK	BACK-UP
3	16	GREEN	RR STOP/TURN
2	16	YELLOW	LH STOP/TURN
1	16	PURPLE/WHITE	LEFT TURN (FOREIGN)

1. ITEM 28 NOT SHOWN FOR CLARITY. USE AS REQUIRED.
2. USE SEALER (DOW SILICONE OR EQUIVALENT) WHEN INSTALLING ITEM 30 TO PREVENT WATER FROM GETTING INSIDE OF LIGHT.
3. LOCATE ITEM 33 IN TOP HOLE OF TOOLBOX FRAME OPENING AND LOCATE ITEM 34 IN BOTTOM HOLE.



DWG NO	REV
7-552-000292	02

CIRCUIT	GA	FUNCTION	TERMINAL
18	16	WORK LIGHT, LIGHTBAR	BARRED WIRE, 0.28 LONG
17	12	AUX 1	BARRED WIRE, 0.36 LONG
14	16	CONTROLS	BARRED WIRE, 0.36 LONG
13	10	HOT (12V)	BARRED WIRE, 0.36 LONG
12	22	BEACON 1	BARRED WIRE, 0.36 LONG
11	12	BEACON 2	BARRED WIRE, 0.36 LONG
10	16	WORK LIGHT, PYLON	BARRED WIRE, 0.36 LONG
16	16	GROUND	BARRED WIRE, 0.36 LONG
7	16	HOOK-UP LIGHTS	BARRED WIRE, 0.28 LONG
6	16	CABINET	BARRED WIRE, 0.28 LONG
5	16	MARKER	BARRED WIRE, 0.36 LONG

CIRCUIT	GA	FUNCTION	TERMINAL
13	10	HOT (12V)	#10 RING

(CONTINUED TABLE)

Diagram of a 3-pin IEC connector. The labels are: ORANGE/BLACK, ORANGE, WHITE.


 WHITE/BLACK
 GREEN
 YELLOW
 PURPLE/WHITE


 BROWN
 GRAY
 BLUE/BLACK
 BLUE/WHITE

NETREX-PACK
150 (HF)

PURPLE/WHITE		BLUE/WHITE
YELLOW		BLUE
GREEN		WHITE/BLACK
BLACK		BROWN

NETR 150



RED/WHITE
BROWN/BLACK
WHITE/RED

CIRCUIT	GA	FUNCTION	TERMINAL
3	16	LEFT TURN (FOREIGN)	UNFINISHED END W/ HEAT SHRINK
8	16	RIGHT TURN (FOREIGN)	UNFINISHED END W/ HEAT SHRINK

WIRES ARE TO BE COVERED
TO WITHIN 2.0" OF WIRE END

CIRCUIT	CAVITY	GA	FUNCTION
4	A	16	BACK-UP
2	B	16	LH STOP/TURN
3	C	16	RH STOP/TURN
5	D	16	MARKER/TAIL
N/A	E		PLUG

[illegible]

HARNESS, LH BODY MPL40

DWG NO 7-552-000290 01 REV

CIRCUIT	GA	COLOR	FUNCTION
9	12	WHITE	GROUND
8	16	BLUE/WHITE	RIGHT TURN (FOREIGN)
7	16	BLUE	HOOK-UP LIGHT
6	16	WHITE/BLACK	CABINET
5	16	BROWN	MARKER/TAIL
4	16	BLACK	BACK-UP
3	16	GREEN	RH STOP/TURN
2	16	YELLOW	LH STOP/TURN
1	16	PURPLE/WHITE	LEFT TURN (FOREIGN)

PLUG FROM RH BODY HARNESS

CAVITY	CIRCUIT	GA	FUNCTION
A	1	16	LEFT TURN (FOREIGN)
B	2	16	LH STOP/TURN
C	3	16	RH STOP/TURN
D	4	16	BACK-UP
E	5	16	MARKER/TAIL
F	6	16	CABINET
G	7	16	HOOK-UP LIGHT
H	8	16	RIGHT TURN (FOREIGN)

CONNECTOR - 1204937
LOCK - 12066304
SEAL - 12048086
TERMINAL - 12048074

CONNECTOR - 1205792
SEAL - 12015323
TERMINAL - 12124580

CIRCUIT	GA	FUNCTION
9	16	GROUND
7	16	HOOK-UP LIGHT

CIRCUIT	GA	FUNCTION	TERMINAL
9	16	GROUND	#10 RING

UNINSULATED TERMINAL
W/HEAT SHRINK

CIRCUIT	GA	FUNCTION	TERMINAL
4	16	BACK-UP ALARM	#10 RING

UNINSULATED TERMINAL
W/HEAT SHRINK

CONNECTOR - 1205792
SEAL - 12015323
TERMINAL - 12124580

CIRCUIT	GA	FUNCTION
9	16	GROUND
4	16	BACK-UP

CIRCUIT	GA	FUNCTION	TERMINAL
1	16	LEFT TURN (FOREIGN)	UNFINISHED ENDS
			TERMINATE W/HEAT SHRINK

CONNECTOR - 12020829
SEAL - 12015323
TERMINAL - 12124580

CIRCUIT	GA	FUNCTION
9	16	GROUND
2	16	LH STOP/TURN
5	16	MARKER/TAIL

CONNECTOR - 1205792
SEAL - 12015323
TERMINAL - 12124580

CIRCUIT	GA	FUNCTION
9	16	GROUND
5	16	MARKER/TAIL

BLACK	0 0
GREEN	0 0
YELLOW	0 0
PURPLE/WHITE	0 0

BROWN	0 0
WHITE/BLACK	0 0
BLUE	0 0
BLUE/WHITE	0 0

CAVITY	CIRCUIT	GA	FUNCTION
A	9	12	GROUND

CONNECTOR - 12066171
LOCK - 12065249
SEAL - 12015193
TERMINAL - 12129497

MEYER-PACK 280 (1/2)

WIRES ARE TO BE COVERED
TO WITHIN 2.0" OF WIRE END

- NOTES:
- HARNESS TO BE COVERED WITH HIGH TEMP. NYLON CONVOLUTED LOOM OR YARN.
 - VENDOR TO DETERMINE INTERNAL WIRING AND SPLICING REQUIREMENTS.
 - SEE SER-000 COMPONENT SPECIFICATIONS DWG 3-836-00014 FOR FURTHER DETAIL.

CIRCUIT	GA	FUNCTION	TERMINAL
5	16	MARKER/TAIL	TRUCK-LITE 94909 REF
9	16	GROUND	

CIRCUIT	GA	FUNCTION	TERMINAL
1	16	LEFT TURN (FOREIGN)	UNFINISHED ENDS
2	16	LH STOP/TURN	UNFINISHED ENDS
3	16	RH STOP/TURN	UNFINISHED ENDS
5	16	MARKER/TAIL	UNFINISHED ENDS
8	16	RIGHT TURN (FOREIGN)	UNFINISHED ENDS
9	16	GROUND	UNFINISHED ENDS

TERMINATE W/HEAT SHRINK

JERRY-DAN CORP.

1 OF 3
7 4

DATE 11/27/04

7-552-000290 01

HARNESS, RH BODY MPL40

DWG NO 7-552-000291 01 REV

CAVITY	CIRCUIT	GA	FUNCTION
A	1	16	LEFT TURN (FOREIGN)
B	2	16	LH STOP/TURN
C	3	16	RH STOP/TURN
D	4	16	BACK-UP
E	5	16	MARKER/TAIL
F	6	16	CABINET
G	7	16	HOOK-UP LIGHTS
H	8	16	RIGHT TURN (FOREIGN)

CONNECTOR - 12047931
LOCK - 12047936
SEAL - 12048086
TERMINAL - 12045773

PURPLE/WHITE
YELLOW
GREEN
BLACK

BLUE/WHITE
BLUE
WHITE/BLACK
BROWN

CIRCUIT	GA	FUNCTION	TERMINAL
5	16	MARKER/TAIL	TRUCK-LITE 94909 REF
9	16	GROUND	

- NOTES:
1) HARNESS TO BE COVERED WITH HIGH TEMP. NYLON CONVULATED LOOM OR YARN.
2) VENDOR TO DETERMINE INTERNAL WIRING AND SPLICING REQUIREMENTS.
3) SEE JERR-DAN COMPONENT SPECIFICATIONS DWG 5-836-00014 FOR FURTHER DETAIL.

CONNECTOR - 12015792
SEAL - 12015323
TERMINAL - 12124580

CIRCUIT	GA	FUNCTION
9	16	GROUND
5	16	CABINET

CONNECTOR - 12015792
SEAL - 12015323
TERMINAL - 12124580

CIRCUIT	GA	FUNCTION
9	16	GROUND
5	16	MARKER/TAIL

COVERING TO BE BRAIDED NYLON YARN. VENDOR TO SIZE FOR MINIMUM DIAMETER.

CAVITY	CIRCUIT	GA	FUNCTION
A	9	12	GROUND

CONNECTOR - 12065172
LOCK - 12065249
SEAL - 12015193
TERMINAL - 12129493

BLACK
GREEN
YELLOW
PURPLE/WHITE

BROWN
WHITE/BLACK
BLUE
BLUE/WHITE

CAVITY	CIRCUIT	GA	FUNCTION
A	1	16	LEFT TURN (FOREIGN)
B	2	16	LH STOP/TURN
C	3	16	RH STOP/TURN
D	4	16	BACK-UP
E	5	16	MARKER/TAIL
F	6	16	CABINET
G	7	16	HOOK-UP LIGHTS
H	8	16	RIGHT TURN (FOREIGN)

CONNECTOR - 12047937
LOCK - 12066304
SEAL - 12048086
TERMINAL - 12048074

CIRCUIT	GA	COLOR	FUNCTION
9	12	WHITE	GROUND
8	16	BLUE/WHITE	RIGHT TURN (FOREIGN)
7	16	BLUE	HOOK-UP LIGHTS
6	16	WHITE/BLACK	CABINET
5	16	BROWN	MARKER/TAIL
4	16	BLACK	BACK-UP
3	16	GREEN	RH STOP/TURN
2	16	YELLOW	LH STOP/TURN
1	16	PURPLE/WHITE	LEFT TURN (FOREIGN)

CIRCUIT	GA	FUNCTION	TERMINAL
9	12	GROUND	1/2 RING

UNINSULATED TERMINAL W/HEAT SHRINK

CONNECTOR - 12015792
SEAL - 12015323
TERMINAL - 12124580

CIRCUIT	GA	FUNCTION
7	16	HOOK-UP LIGHT
9	16	GROUND

CIRCUIT	GA	FUNCTION	TERMINAL
8	16	RIGHT TURN (FOREIGN)	UNFINISHED ENDS; TERMINATE W/HEAT SHRINK

CONNECTOR - 12015792
SEAL - 12015323
TERMINAL - 12124580

CIRCUIT	GA	FUNCTION
9	16	GROUND
4	16	BACK-UP

WIRES ARE TO BE COVERED TO WITHIN 2.0" OF WIRE END

JERR-DAN CORP.

DATE: 11/27/06	BY: [Signature]	REV: 1 OF 1
7-552-000291 01		

Pylon Lights Installation

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/01/05

Item: 25900000129

LIGHT INSTL PYLON MARKER

From Item: 25900000129

To Item: 25900000129

Reference: B/3325-N

Last Changed Date:

Revision #0/0

BIN:

UOM: PC

Quantity	1	Receive into Whse: HYKS		
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Ball Dr	Bin						
-oon Sz Component Type Location	Description	QtyPer	UOM	Reference	Effectivity		
===	=====	=====	===	=====	=====		
01 N 75900000095	P 101503 e-floor ASSY MARKER LIGHT-YEL LIGHT/GROMMET ONLY	2.000	PC		-		
02 78940000010	P j40 STRAP TIE DEL-CITY 6" (WHITE)	2.000	pc		-		

*** End of Item ***

*** End of Report ***

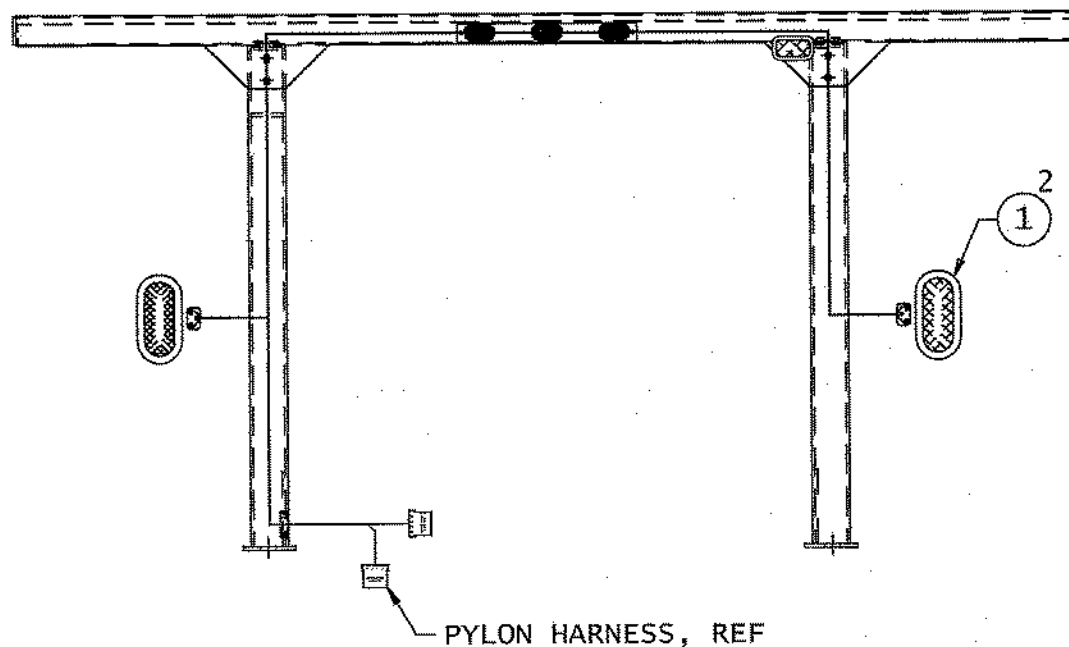
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GENERAL NOTES

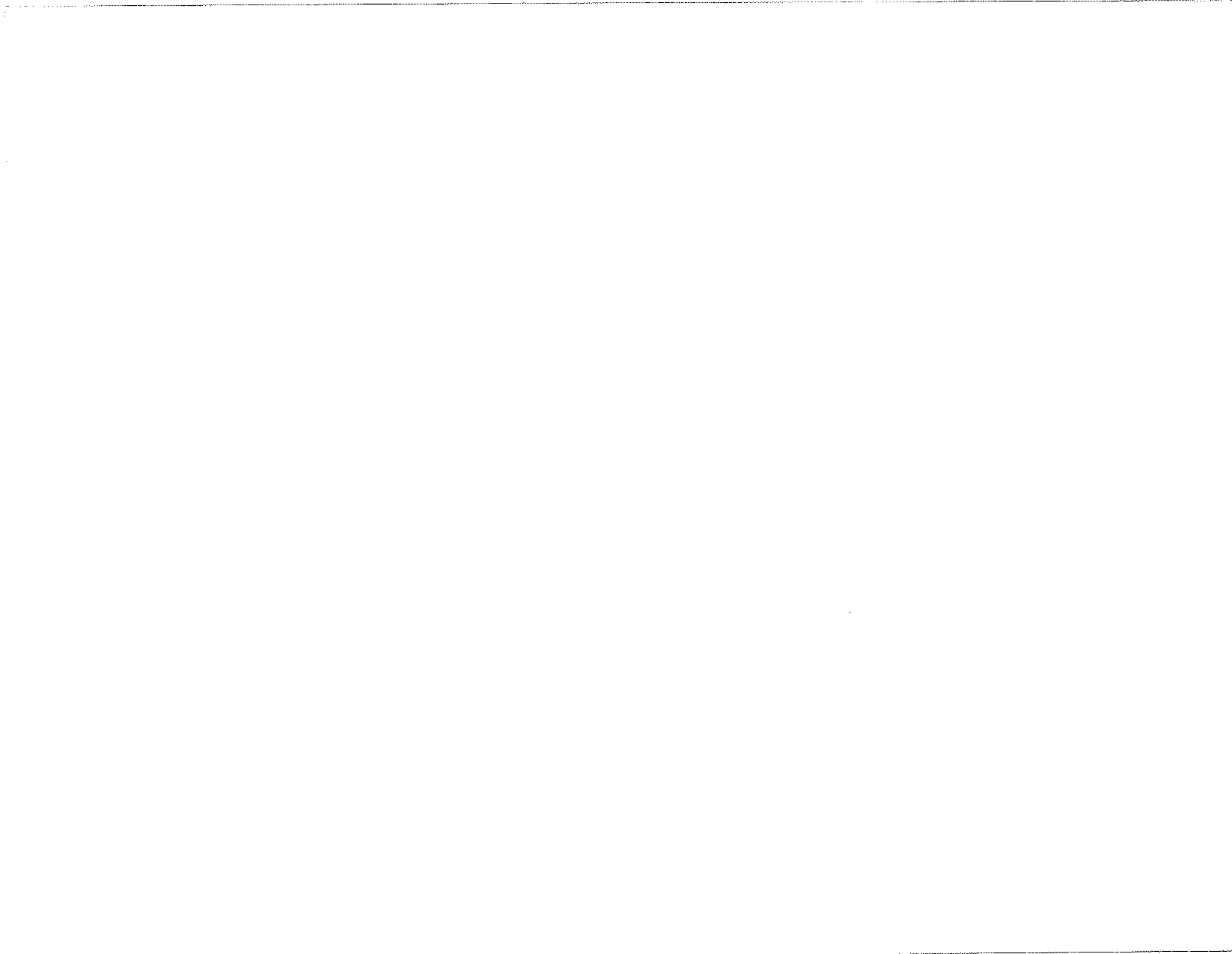
DO NOT SCALE DRAWING
BREAK SHARP CORNERS

M DENOTES "CRITICAL"
DIMENSION AND MUST
BE CONTROLLED BY
STATISTICAL ANALYSIS

ITEM #2 NOT SHOWN

REV	ERN	DESCRIPTION	DATE	DRN

TOLERANCES (EXCEPT AS NOTED)		JERR-DAN CORP. GREENCASTLE, PA.	
DECIMAL	MAT'L SEE B/M	SCALE	DRAWN BY RMF
2 PLACE .052		0.13	ERN NO. 3325
3 PLACE .013			
ANGULAR	TITLE LIGHT ASSY, PYLON MARKERS		
±0° 30'	DATE	NEXT ASS'Y	ORIGINAL
LIMITS ARE TO BE NON-ACCUMULATIVE PER A LINE OF DIMENSIONS.	6/24/02	DRAWING NO.	B2-590-000129



Fender Flare Installation

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/01/05

Item: 2415000019

FENDER FLARE INSTALL NARROW MPL-40

From Item: 2415000019

To Item: 2415000019

Reference: N/3774D

Last Changed Date:

Revision #0/0

Quantity 1

Receive into Whse: MYPT

BIN: WA01

UOM: PC

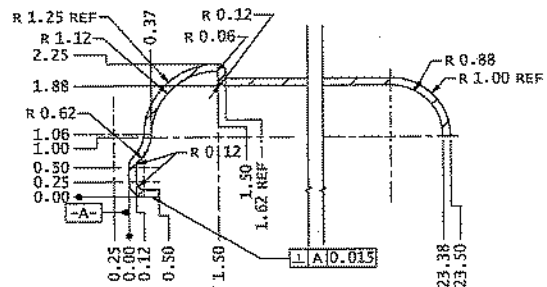
Ball Dr		Bin		Description	QtyPer	UOM	Reference	Effectivity
-oon Sz Component Type Location								
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01	D 7415000021	P m-floor		FENDER PLASTIC QP40 (UNPAINTED)	2.000	PC		-
02	7114150850	P all		CAPSCREW .31"-18NC X 1.00" HEX HEAD SS	22.000	PC		-
03	N 7950150000	P 080304 x01		WASHER .31" NOM REG LOCK - PLATED	22.000	PC		-
04	N 7949000055	P		WASHER FENDER 1.50 OD X 0.38 ID X 0.06	22.000	PC		-
05	# 7661000029	P		NUT J TYPE #C31280-5618-4	22.000	PC		-

*** End of Item ***

*** End of Report ***

FENDER PLASTIC 1.62" WIDE

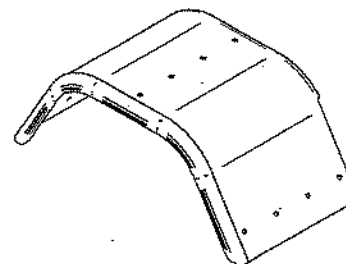
DWG NO 7-415-000021 REV 01



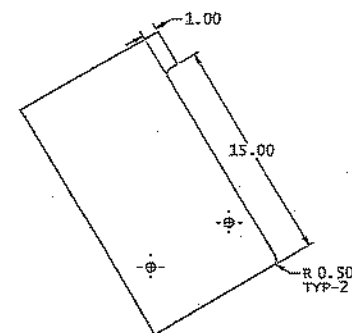
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VIEW SCALE: 1:1



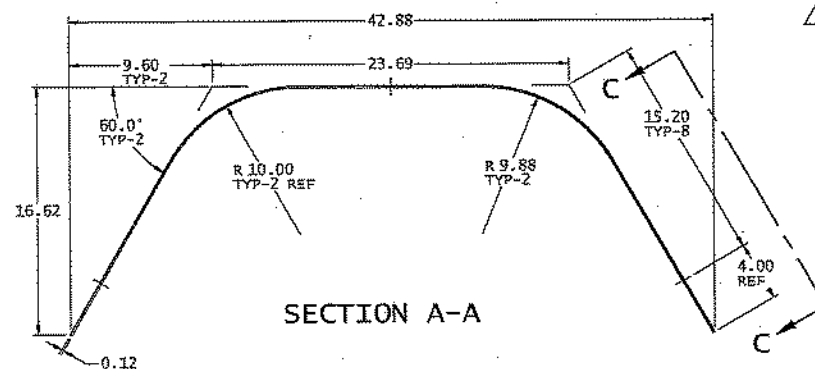
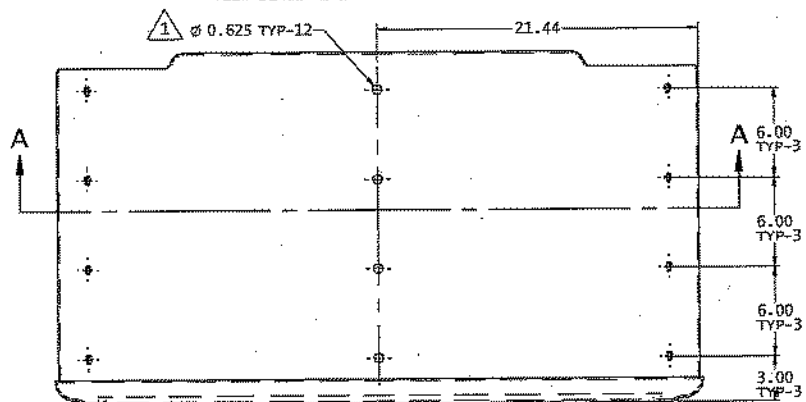
SECTION 0-0
VIEW SCALE: 1:1



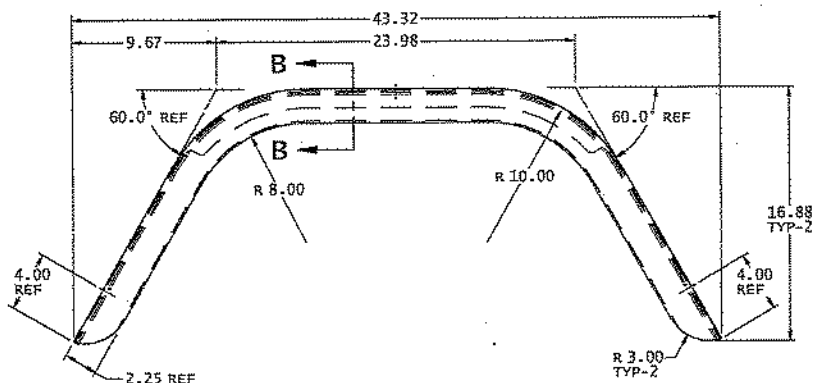
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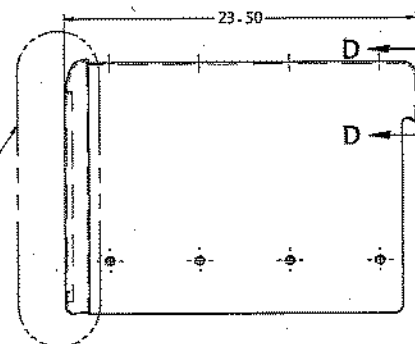
SECTION C-C
CUTOUT DETAIL TYP-2



SECTION A-A



SEE NOTE #1



1. ALL OUTSIDE SURFACES MUST BE FREE OF DIPS, BOWS, INDENTATIONS AND CUTS.
2. MINIMUM PART THICKNESS TO BE 0.12" THICK AND UNIFORM THROUGHOUT.
3. ALL TRIMMED EDGES MUST BE FREE OF NICKS, GOUGES AND CUTS.

MATERIAL:
HIGH MOLECULAR WEIGHT POLYETHYLENE
MATERIAL THICKNESS: 0.187"
MATERIAL COLOR: BLACK

JERRIDIAN			
DATE	10/07/02	REV	01
BY	10/07/02	CHK	10/07/02
APP	10/07/02	DES	10/07/02
DATE	10/07/02	REV	01
BY	10/07/02	CHK	10/07/02
APP	10/07/02	DES	10/07/02

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/01/05

Item: 2415000020

FENDER FLARE INSTALL WIDE MPL-40

From Item: 2415000020

To Item: 2415000020

Last Changed Date:

Reference:N/3774D

Revision #0/0

BIN: WA01

UOM: PC

Quantity

1

Receive into Whse: MYPT

Ball Dr

Bin

-oon Sz Component Type Location

Description

QtyPer UOM

Reference

Effectivity

01 3 7415000023

P

PLASTIC FENDER FOR MPL-40

2.000 PC

-

02 7114150850

P all

CAPSCREW .31"-18NC X 1.00" HEX HEAD SS

22.000 PC

-

03 N 7950150000

P 080304 x01

WASHER .31" NOM REG LOCK - PLATED

22.000 PC

-

04 N 7949000055

P

WASHER FENDER 1.50 OD X 0.38 LD X 0.06

22.000 PC

-

05 # 7661000029

P

NUT J TYPE #C31280-5618-4

22.000 PC

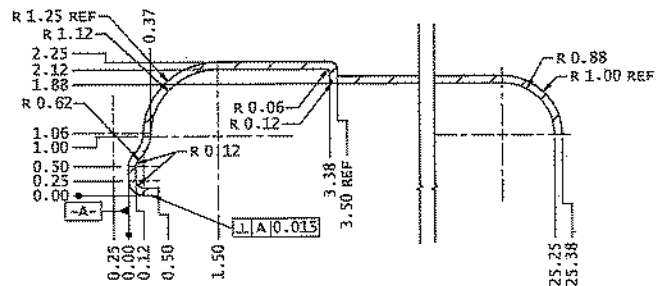
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*** End of Item ***

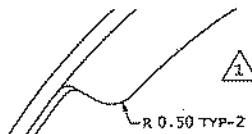
*** End of Report ***

FENDER PLASTIC 3.50" WIDE

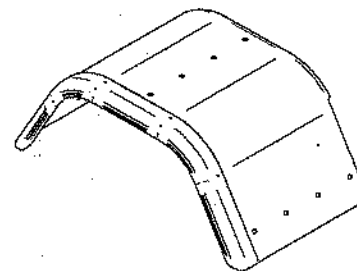
DWG NO 7-415-000023 REV 01



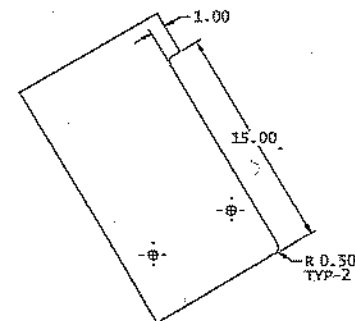
SECTION B-B
VIEW SCALE: 1:1



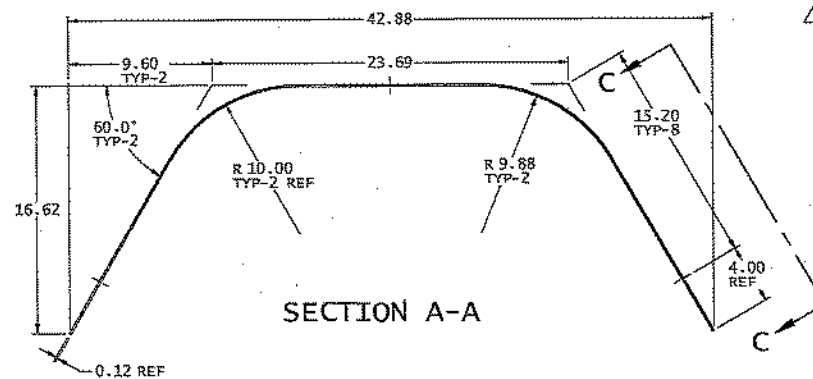
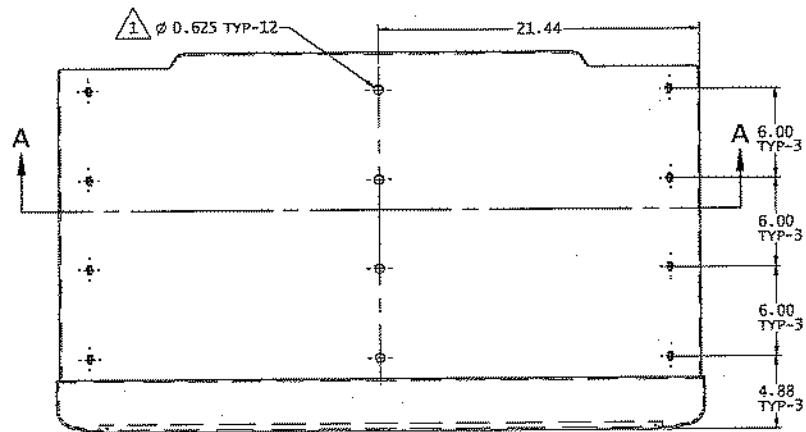
SECTION D-D
VIEW SCALE: 1:1



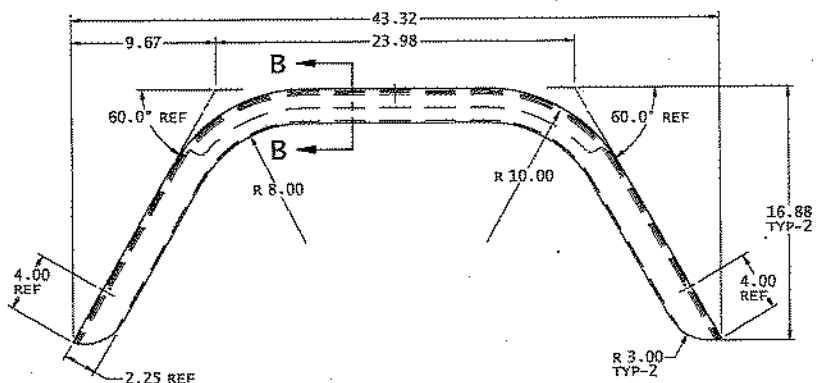
VIEW SCALE: 1:8



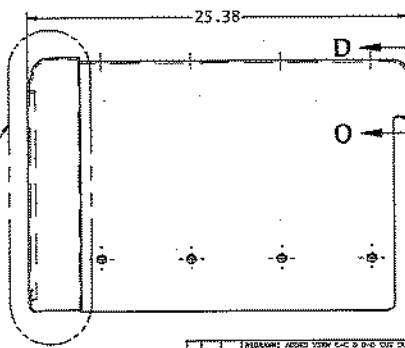
SECTION C-C
CUTOUT DETAIL TYP-2



SECTION A-A



SEE NOTE #1



1. ALL OUTSIDE SURFACES MUST BE FREE OF DIPS, BOWS, INDENTATIONS AND CUTS.
2. MINIMUM PART THICKNESS TO BE 0.12" THICK AND UNIFORM THROUGHOUT.
3. ALL TRIMMED EDGES MUST BE FREE OF NICKS, GOUGES AND CUTS.

MATERIAL:
HIGH MOLECULAR WEIGHT POLYETHYLENE
MATERIAL THICKNESS: 0.187"
MATERIAL COLOR: BLACK

REVISIONS		DATE		BY		CHKD	
1	REVISION	2/2/85	185	1	1	1	1
2	REVISION	2/2/85	185	1	1	1	1
3	REVISION	2/2/85	185	1	1	1	1
4	REVISION	2/2/85	185	1	1	1	1
5	REVISION	2/2/85	185	1	1	1	1
6	REVISION	2/2/85	185	1	1	1	1
7	REVISION	2/2/85	185	1	1	1	1
8	REVISION	2/2/85	185	1	1	1	1
9	REVISION	2/2/85	185	1	1	1	1
10	REVISION	2/2/85	185	1	1	1	1

JERRARD

DATE	2/2/85	REV	01
BY	1	CHKD	1
DATE	2/2/85	REV	01
BY	1	CHKD	1

Pylon Wiring Installation

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/01/05

Item: 3509330108

ELECTRICAL ASSY BASE PYLON MPL-40 60CA

From Item: 3509330108

To Item: 3509330108

Reference: B/3774E

Last Changed Date:

Revision #0/0

BIN: WA03

UOM: PC

Quantity

1

Receive into Whse: MYPT

Ball Dr

Bin

-oon Sz Component Type Location

Description

QtyPer UOM

Reference

Effectivity

=== == =====

=====

=====

=====

=====

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01 D 7552000293

P k07

HARNESS HEADBOARD MPL40

1.000 PC

-

02 N 7590000105

P e-floor

LIGHT #436SX LICENSE PLATE

1.000 pc

-

03 N 7178000025

P e02

LICENSE PLATE BRACKET #3272100KEL

1.000 PC

-

04 N 7346000039

P d14 g-floor j0

TUBING .25"ID HS W/ADHESIVE - 48" LG

.125 pc

-

05 A 7894000042

P j40

TIE STRAP, .25 x 8.39 PUSH IN

1.000 PC

-

06 N 5526000553

P c13

TIE PLASTIC STRAP - 5/16"W X 8" LG

1.000 pc

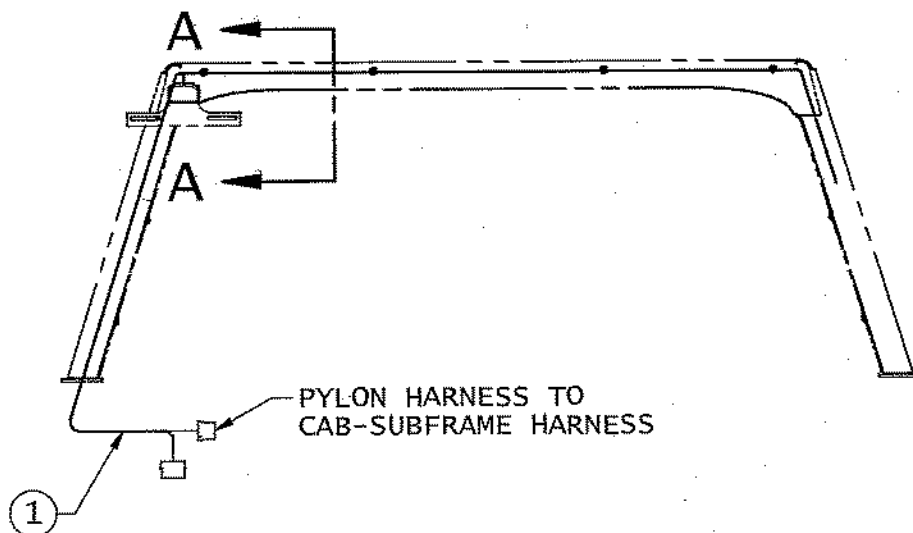
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*** End of Item ***

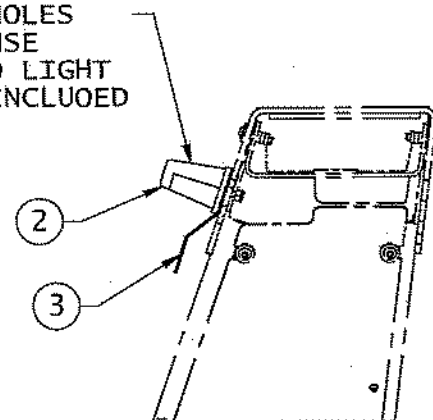
*** End of Report ***

NOTE: ITEMS 5 & 6 (WIRE TIES) NOT SHOWN
USE AS REQUIRED

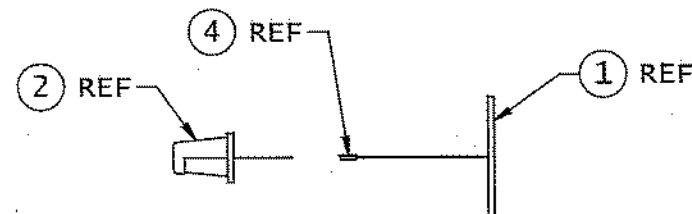
USE EXISTING HOLES
TO MOUNT LICENSE
PLATE BRKT AND LIGHT
ALL HARDWARE INCLUDED
WITH LIGHT



PYLON HARNESS TO
CAB-SUBFRAME HARNESS



SECTION A-A



REV	ZONE	ERN	DESCRIPTION	DATE	BY
-----	------	-----	-------------	------	----

2

PROPRIETARY AND CONFIDENTIAL
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REMOVE ALL BURRS AND
SHARP CORNERS.

TOLERANCES UNLESS
OTHERWISE SPECIFIED
2 PLACE DEC ± 0.062
3 PLACE DEC ± 0.015
ANGLE DIM $\pm 0.5^\circ$
N/A TO MATERIAL THICKNESS

JERR-DAN				
An Oaklawn Truck Corporation Company				
MATERIAL SEE B/M			SHEET 1 OF 1	
TITLE ELECTRICAL ASSY BASE PYLON MPL-40 60CA			WEIGHT ? #	
SCALE NTS	ERN 3774	SIZE B	DWG NO 3-509-330108	REV 00
DATE 03/23/05	DRAWN SMB			

1

08/02/05 - 3309330108.dft

HARNESS HEADBOARD MPL40

DWG NO 7-552-000293 00 REV

CIRCUIT	GA	COLOR	FUNCTION
18	16	GRAY	WORK LIGHT, LIGHTBAR
12	12	ORANGE	BEACON 1
11	12	ORANGE/BLACK	BEACON 2
10	16	BLUE/BLACK	WORK LIGHT, PYLON
9	10	WHITE	GROUND
8	16	BLUE/WHITE	RIGHT TURN (FOREIGN)
5	16	BROWN	MARKER/TAIL
3	16	GREEN	RH STOP/TURN
2	16	YELLOW	LH STOP/TURN
1	16	PURPLE/WHITE	LEFT TURN (FOREIGN)

CIRCUIT	GA	FUNCTION	TERMINAL
10	16	WORK LIGHT, PYLON	BUTT CONNECTOR
9	16	GROUND	BUTT CONNECTOR
			UNINSULATED

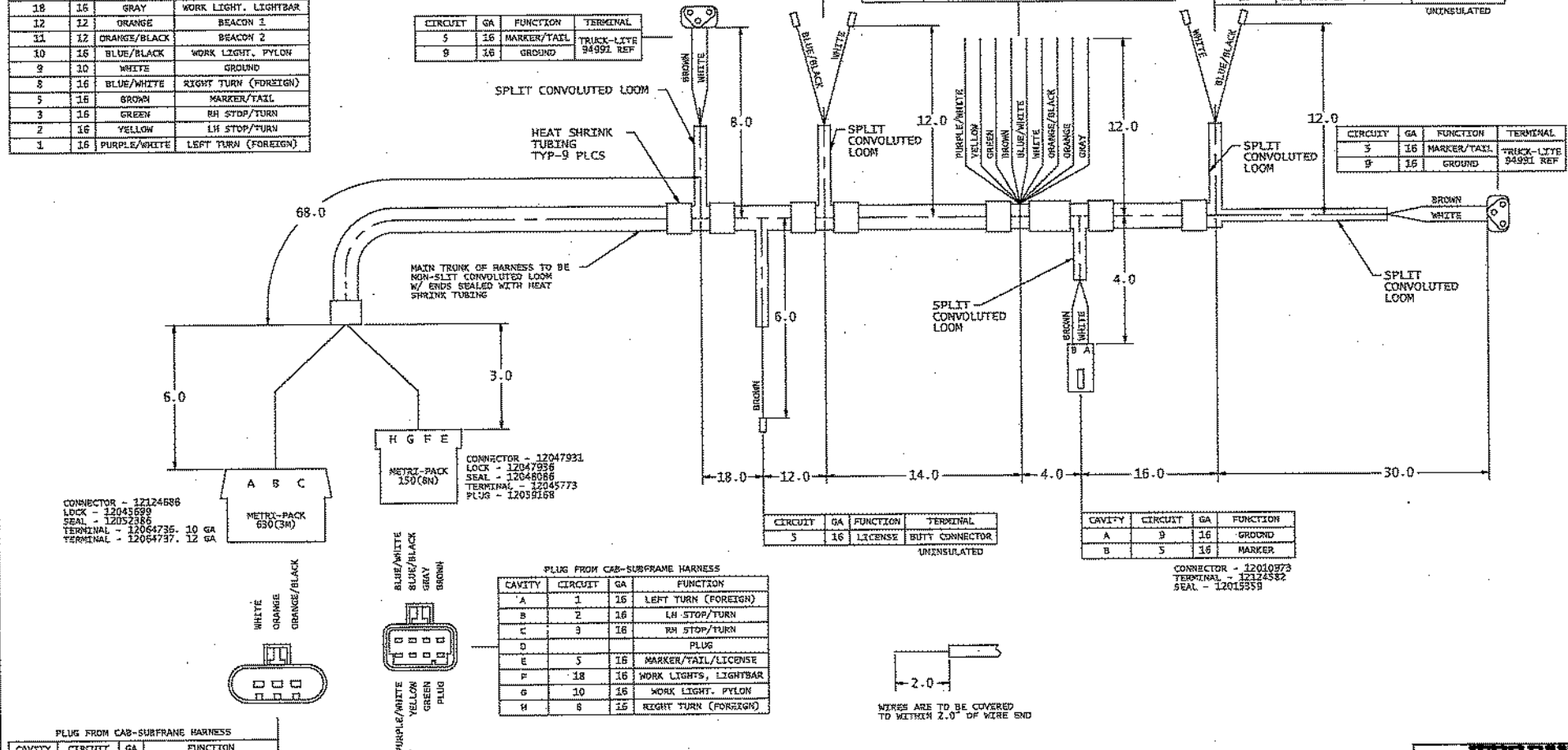
CIRCUIT	GA	FUNCTION	TERMINAL
5	16	MARKER/TAIL	TRUCK-LITE 94992 REF
9	16	GROUND	

CIRCUIT	GA	FUNCTION	TERMINAL
1	16	LEFT TURN (FOREIGN)	UNFINISHED END
2	16	LH STOP/TURN	UNFINISHED END
3	16	RH STOP/TURN	UNFINISHED END
5	16	MARKER/TAIL	UNFINISHED END
8	16	RIGHT TURN (FOREIGN)	UNFINISHED END
9	10	GROUND	UNFINISHED END
11	12	BEACON 2	UNFINISHED END
12	12	BEACON 1	UNFINISHED END
18	16	WORK LIGHT, LIGHTBAR	UNFINISHED END

BAG & TAG SHEET LOOSE WITH HARNESS
 CONNECTOR: 12124588
 TERMINAL: 12033597 (10-12GA)
 TERMINAL SEAL: 12033597 (10GA)
 TERMINAL SEAL: 12033597 (12GA)
 LOCK (TRA): 12045699
 CONNECTOR: 12015797
 TERMINAL: 12124580 (16GA)
 TERMINAL SEAL: 12015359 (16GA)

CIRCUIT	GA	FUNCTION	TERMINAL
9	16	GROUND	BUTT CONNECTOR
10	16	WORK LIGHT, PYLON	BUTT CONNECTOR
			UNINSULATED

CIRCUIT	GA	FUNCTION	TERMINAL
3	16	MARKER/TAIL	TRUCK-LITE 94992 REF
9	16	GROUND	



CAVITY	CIRCUIT	GA	FUNCTION
A	1	16	LEFT TURN (FOREIGN)
B	2	16	LH STOP/TURN
C	3	16	RH STOP/TURN
D			PLUG
E	5	16	MARKER/TAIL/LICENSE
F	18	16	WORK LIGHTS, LIGHTBAR
G	10	16	WORK LIGHT, PYLON
H	8	16	RIGHT TURN (FOREIGN)

CAVITY	CIRCUIT	GA	FUNCTION
A	9	10	GROUND
B	12	12	BEACON 1
C	11	12	BEACON 2

- NOTES:
- 1) HARNESS TO BE COVERED WITH HIGH TEMP. NYLON CONVOLUTED LOOM OR TAP.
 - 2) VENDOR TO DETERMINE INTERNAL WIRING AND SPLICING REQUIREMENTS.
 - 3) SEE JERRADAN COMPONENT SPECIFICATIONS DWG 5-835-00014 FOR FURTHER DETAIL.

WIRES ARE TO BE COVERED TO WITHIN 2.0" OF WIRE END

IF IT WERE NOT FOR THE WIRE BUNCH, REMOVE ALL WIRE AND BUNCH TOGETHER.

THE WIRE BUNCH IS TO BE REMOVED FROM THE WIRE BUNCH AND THE WIRE BUNCH IS TO BE REMOVED FROM THE WIRE BUNCH.

JERRADAN	
DATE: 12/28/04	REV: 1 OF 1
DRAWN BY: 1774	DATE: 12/28/04
CHECKED BY: 1774	DATE: 12/28/04
HARNESS HEADBOARD MPL40	
DWG NO: 7-552-000293 00	

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/01/05

Item: 3509330109

ELECT ASSY PYLON & TUNNEL MPL-40 84CA

From Item: 3509330109

To Item: 3509330109

Reference: D/3774E

Last Changed Date:

Revision #0/0

BIN: WA03

UOM: PC

Quantity

1

Receive into Whse: MYPT

Ball Dr

Bin

-oon Sz Component Type Location

Description

QtyPer UOM

Reference

Effectivity

=== == =====

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01	D	7552000295	P	k08	HARNES HEADBOARD/TUNNEL MPL- 40	1.000	PC	-
02	N	7590000105	P	e-floor	LIGHT #436SX LICENSE PLATE	1.000	pc	-
03	N	7178000025	P	e02	LICENSE PLATE BRACKET #3272100KEL	1.000	PC	-
04	N	7346000039	P	d14 g-floor j0	TUBING .25"ID HS W/ADHESIVE - 48" LG	.125	pc	-
05	A	7894000042	P	j40	TIE STRAP, .25 x 8.39 PUSH IN	3.000	PC	-
06	N	5526000553	P	c13	TIE PLASTIC STRAP - 5/16"W X 8" LG	8.000	pc	-
07	N	7790100856	P	000103 c21 x01	SCREW #10 X .50" HWH SELF-TAPPING	4.000	pc	-
08	A	7590000274	P	e10	LIGHT INTERIOR DOME #V391C	2.000	PC	-
09	A	7661000047	P		NUT NYLON PANNEL #8-10 GRIP 0.03-0.13"	4.000	PC	-
10	A	7493000009	P	101607 b01 f05	GROMMET BLACK (2.50 DIA LIGHT) #82839	2.000	pc	-
11	B	7590000185	P	101007 d18 e11	LIGHT #80466 ROUND RUBBER WORK	2.000	PC	-
12	3	7870000115	P	a20	SWITCH 2.5" ADJUSTABLE PIN SWITCH	2.000	PC	-
13	D	7413000013	P	022304 e02	FASTENER PUSH ON RATCHET #27RT250800	2.000	PC	-
14	A	7493000011	P	101404 c10 f06	GROMMET 1.38" ID RUBBER	1.000	PC	-

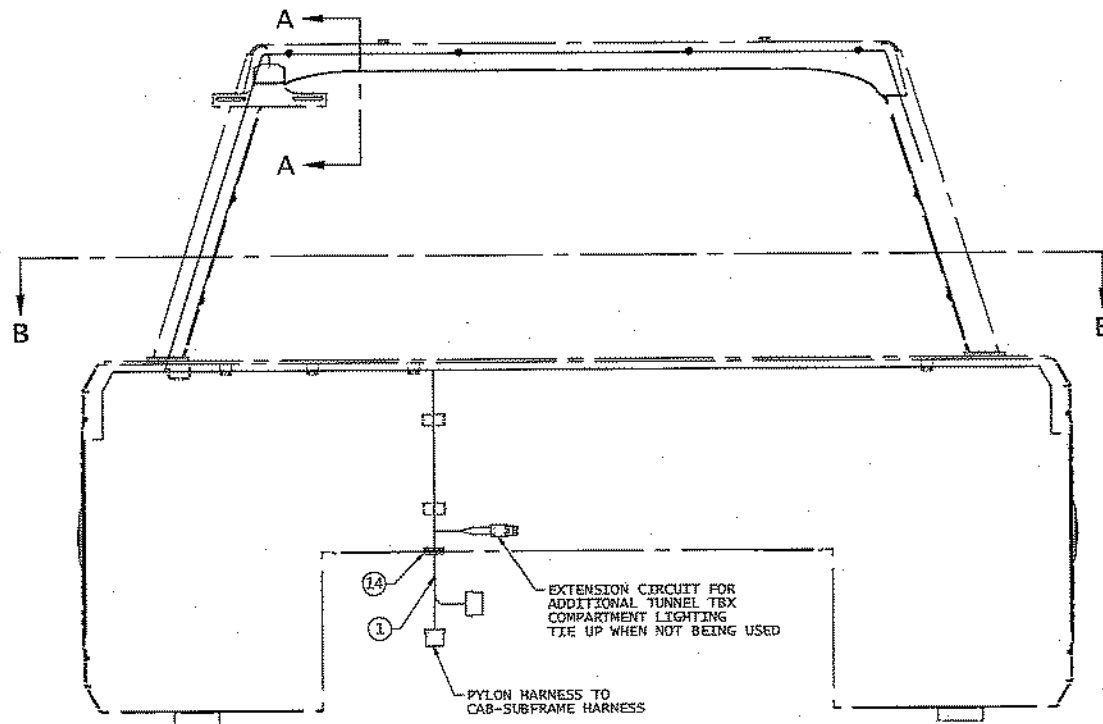
*** End of Item ***

*** End of Report ***

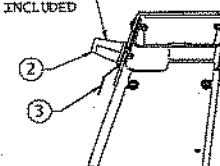
ELECT ASSY PYLON & TUNNEL MPL-40 84CA

DRWG NO 3-509-330109 REV 00

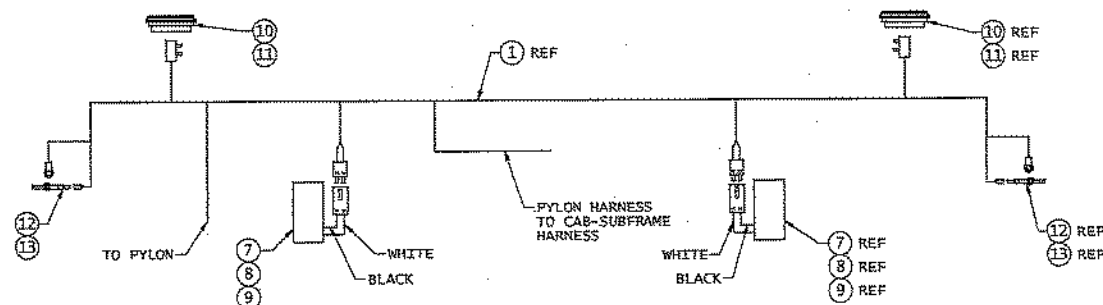
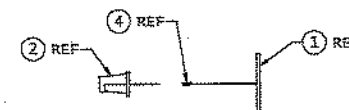
NOTE: ITEMS 5 & 6 (WIRE TIES) NOT SHOWN
USE AS REQUIRED



USE EXISTING HOLES
TO MOUNT LICENSE
PLATE BRKT AND LIGHT
ALL HARDWARE INCLUDED
WITH LIGHT



SECTION A-A

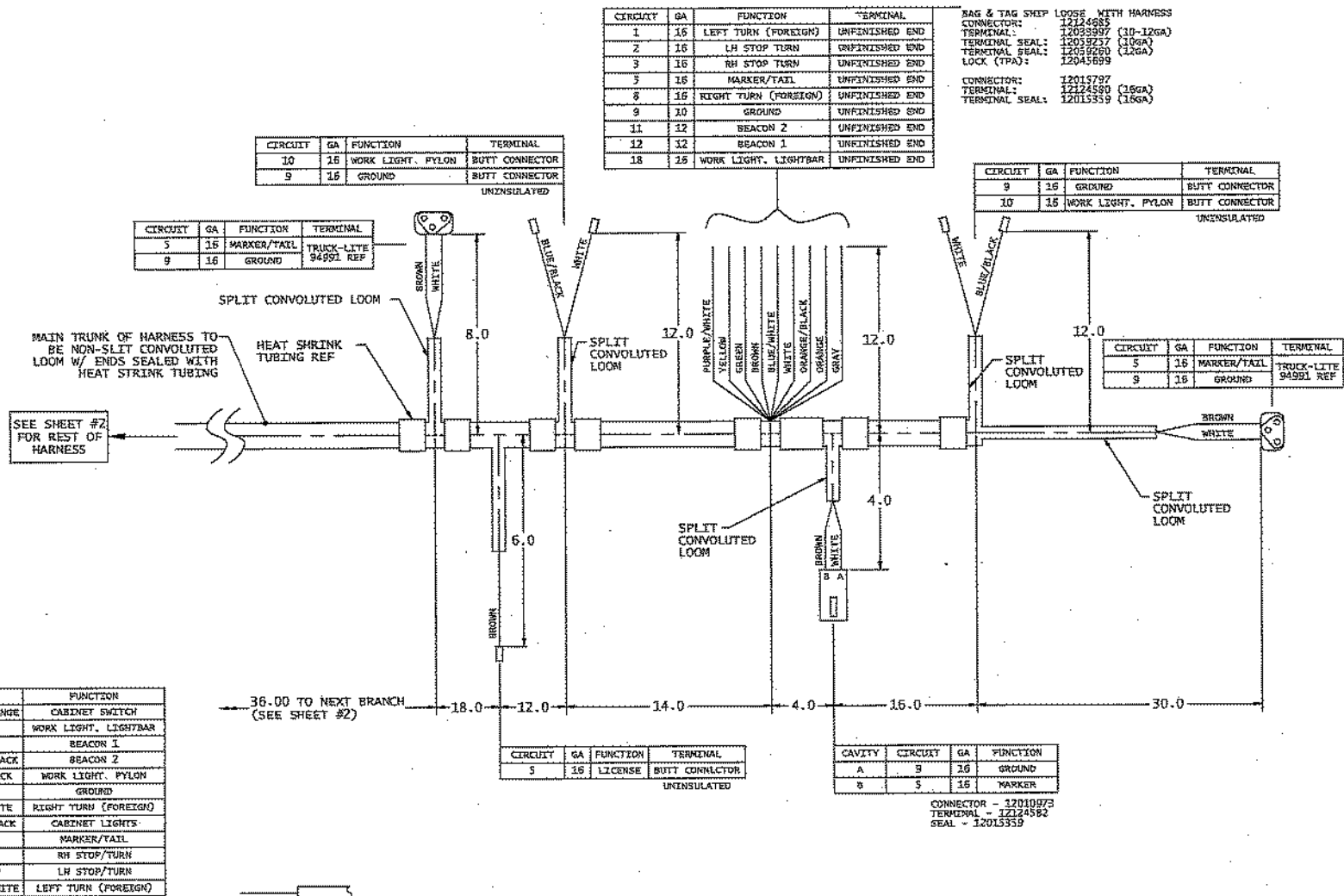


VIEW B-B

JEFFERDAN Aircraft Equipment Division		DATE 07/24/05
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QUANTITY 10000	DATE 07/24/05	REV 00
TITLE	ELECT ASSY PYLON & TUNNEL MPL-40 84CA	1 OF 1
DRW BY	DRW CHK	3-509-330109

HARNESS HEADBOARD / TUNNEL MPL-40

DWG NO 7-552-000295 REV 00



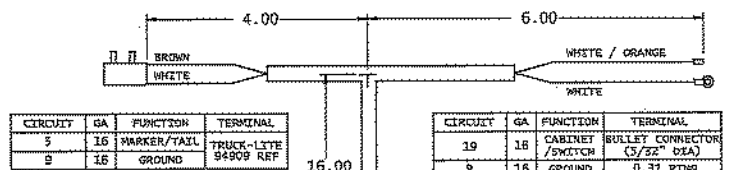
- NOTES:
- 1) HARNESS TO BE COVERED WITH HIGH TEMP. NYLON CONVOLUTED LOOM OR YARN.
 - 2) VENDOR TO DETERMINE INTERNAL WIRING AND SPLICING REQUIREMENTS.
 - 3) SEE JERR-DAN COMPONENT SPECIFICATIONS DWG 3-856-00014 FOR FURTHER DETAIL.

WIRES ARE TO BE COVERED TO WITHIN 2.0" OF WIRE END

JERR-DAN	
DATE: 03/29/05	REV: 00
PART: 1 OF 3	
TITLE: HARNESS HEADBOARD / TUNNEL MPL-40	
DRW: 3024	CHK: 3024
APP: 3024	REV: 00
DWG NO: 7-552-000295	
REV: 00	

HARNESS HEADBOARD / TUNNEL MPL-40

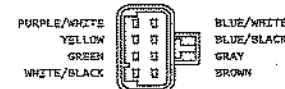
DWG NO 7-552-000295 REV 00



CIRCUIT	GA	FUNCTION	TERMINAL
19	16	CABINET /SWITCH	BULLET CONNECTOR (5/32" DIA)
9	16	GROUND	0.31 RING

UNINSULATED TERMINALS W/ HEAT SHRINK

CONNECTOR - 12015792
SEAL - 12015323
TERMINAL - 12124580

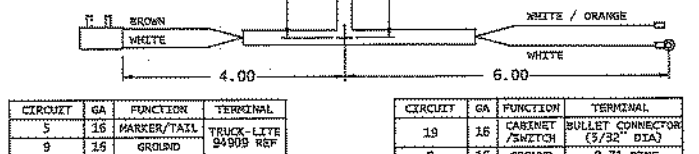


CAVITY	CIRCUIT	GA	FUNCTION
A	1	16	LEFT TURN (FOREIGN)
B	2	16	LH STOP/TURN
C	3	16	RH STOP/TURN
D	5	16	CABINET LIGHTS
E	5	16	MARKER/TAIL/LICENSE
F	18	16	WORK LIGHTS, LIGHTBAR
G	10	16	WORK LIGHT, PYLON
H	8	16	RIGHT TURN (FOREIGN)

MAIN TRUNK OF HARNESS TO BE NON-SLIT CONVOLUTED LOOM W/ ENDS SEALED WITH HEAT SHRINK TUBING

SEE SHEET #1 FOR REST OF HARNESS

36.00 TO NEXT BRANCH (SEE SHEET #1)



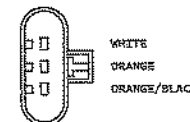
CIRCUIT	GA	FUNCTION	TERMINAL
19	16	CABINET /SWITCH	BULLET CONNECTOR (5/32" DIA)
9	16	GROUND	0.31 RING

UNINSULATED TERMINALS W/ HEAT SHRINK

CONNECTOR - 12015792
SEAL - 12015323
TERMINAL - 12124580

CIRCUIT	GA	FUNCTION
6	16	CABINET LIGHT
9	16	GROUND

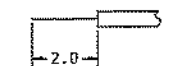
(EXTENSION CIRCUIT FOR ADDITIONAL TUNNEL TOOLBOX REF)



CAVITY	CIRCUIT	GA	FUNCTION
A	9	10	GROUND
B	12	12	BEACON 1
C	11	12	BEACON 2

CIRCUIT	GA	COLOR	FUNCTION
19	16	WHITE/ORANGE	CABINET SWITCH
18	16	GRAY	WORK LIGHT, LIGHTBAR
12	12	ORANGE	BEACON 1
11	12	ORANGE/BLACK	BEACON 2
10	16	BLUE/BLACK	WORK LIGHT, PYLON
9	10	WHITE	GROUND
8	16	BLUE/WHITE	RIGHT TURN (FOREIGN)
6	16	WHITE/BLACK	CABINET LIGHTS
5	16	BROWN	MARKER/TAIL
3	16	GREEN	RH STOP/TURN
2	16	YELLOW	LH STOP/TURN
1	16	PURPLE/WHITE	LEFT TURN (FOREIGN)

- NOTES:
- 1) HARNESS TO BE COVERED WITH HIGH TEMP. NYLON CONVOLUTED LOOM OR YARN.
 - 2) VENDOR TO DETERMINE INTERNAL WIRING AND SPLICING REQUIREMENTS.
 - 3) SEE JERR-DAN COMPONENT SPECIFICATIONS DWG 5-838-00014 FOR FURTHER DETAIL.



WIRES ARE TO BE COVERED TO WITHIN 2.0" OF WIRE END

JERR-DAN		DATE: 03/29/05		REV: 00	
TITLE: HARNESS HEADBOARD / TUNNEL MPL-40		DWG NO: 7-552-000295		REV: 00	
DESIGNED BY: [Signature]		CHECKED BY: [Signature]		APPROVED BY: [Signature]	

Mud Flap Installation

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/01/05

Item: 2638000006

MUDFLAP INST QP40

From Item: 2638000006

To Item: 2638000006

Reference: D/3560

Last Changed Date:

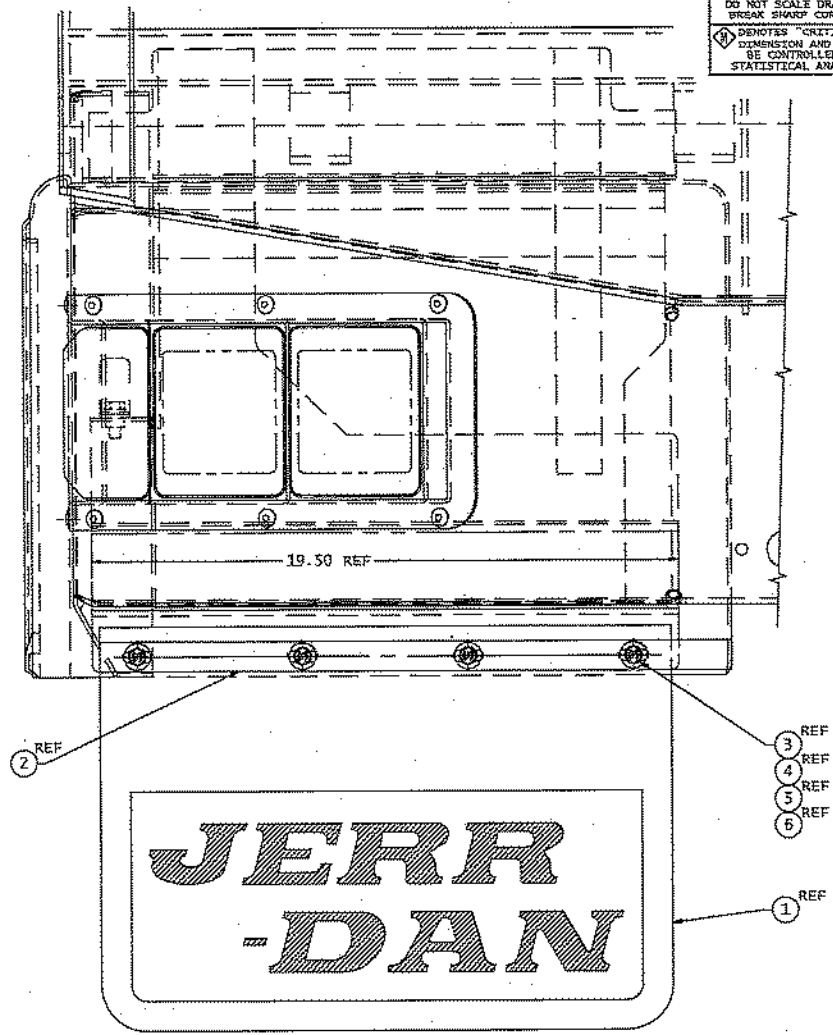
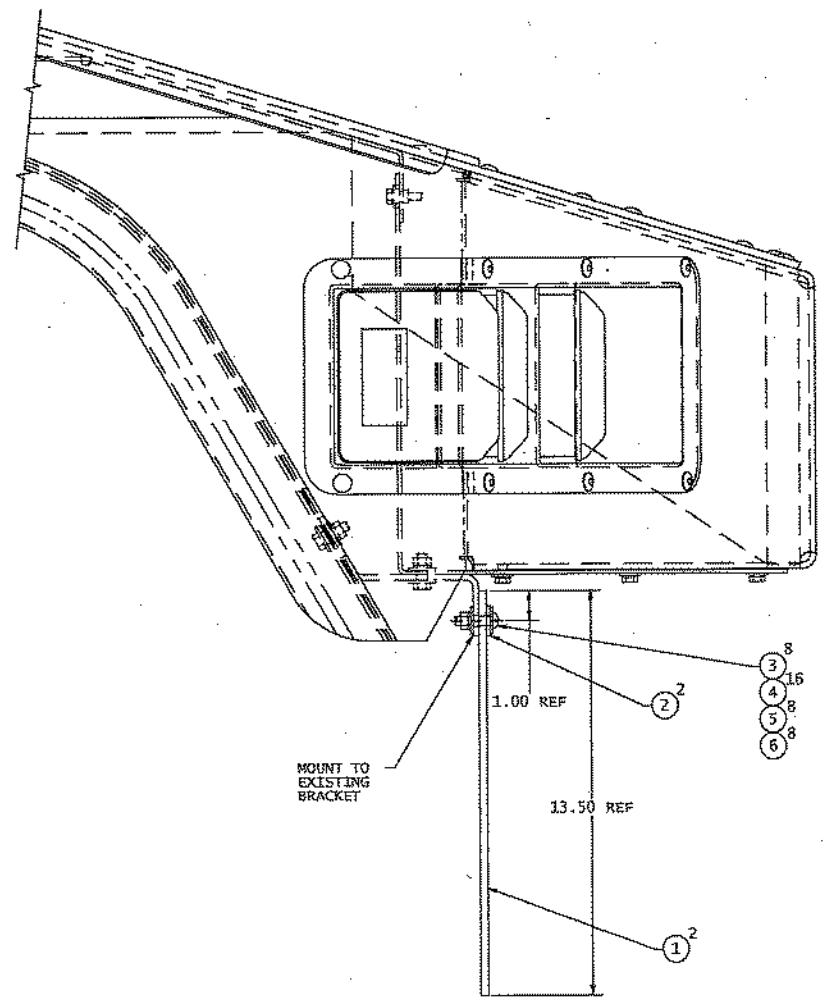
Quantity	1	Receive into Whse: MYPT	Revision #0/0	BIN: WA00	UOM: PC
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Ball Dr	Bin						
-oon Sz Component Type Location	Description	QtyPer	UOM	Reference	Effectivity		
--- --	-----	-----	---	-----	-----		
01 D 7638000003	P 040106 e09 m03 FLAP MUD W/JERR-DAN LOGO - 19"x13.5"	2.000	pc		-		
02 B 4706001124	M 102007 WA00 PLATE 0.13 x 1.00 x 21.00	2.000	PC		-		
03 7111151010	P 000103 SCREW .31"-18NC X 1.25" RH MACHINE	8.000	pc		-		
04 N 7950150161	P 030602 080304 FLATWASHER .31" NOM WIDE - PLATED	16.000	PC		-		
05 N 7950150000	P 080304 x01 WASHER .31" NOM REG LOCK - PLATED	8.000	PC		-		
06 7660150000	P 080304 A109 HEX NUT .31"-18NC - PLATED	8.000	pc		-		

*** End of Item ***

*** End of Report ***

GENERAL NOTES
DO NOT SCALE DRAWING
BREAK SHARP CORNERS
DENOTES "CRITICAL"
DIMENSION AND MUST
BE CONTROLLED BY
STATISTICAL ANALYSIS



ASSEMBLY OF REAR LEFT SIDE SHOWN
REAR RIGHT SIDE ASSEMBLY SYMMETRICAL

JERR-DAN CORP.		GREENCASTLE, PA.		DRAWN BY: JLS	
DESIGNER	DATE	REV	DATE	REV	DATE
1		1		1	
2		2		2	
3		3		3	
4		4		4	
5		5		5	
6		6		6	
7		7		7	
8		8		8	
9		9		9	
10		10		10	
11		11		11	
12		12		12	
13		13		13	
14		14		14	
15		15		15	
16		16		16	
17		17		17	
18		18		18	
19		19		19	
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37		37		37	
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39		39		39	
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41		41		41	
42		42		42	
43		43		43	
44		44		44	
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63		63		63	
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66		66		66	
67		67		67	
68		68		68	
69		69		69	
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76		76		76	
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88		88		88	
89		89		89	
90		90		90	
91		91		91	
92		92		92	
93		93		93	
94		94		94	
95		95		95	
96		96		96	
97		97		97	
98		98		98	
99		99		99	
100		100		100	

Identification 3 Light Bar Installation

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/01/05

Item: 2590000164

LIGHT INSTALL IDENTIFICATION 3 BAR

From Item: 2590000164

To Item: 2590000164

Reference: B/3774E

Last Changed Date:

Revision #0/0

Quantity

1

Receive into Whse: MYPT

BIN: WA03

UOM: PC

Ball Dr

Bin

-oon Sz Component Type Location

Description

QtyPer UOM

Reference

Effectivity

=== == =====

=====

=====

=====

=====

01 A 7590000193 P d13 e-floor g0 LIGHT ID LAMP BAR TRUCK LITE P/N 15747R 1.000 PC -

02 N 7114141018 P 000101 A128 CAPSCREW .25"-20NC X 1.25" BH SH SS 2.000 PC -

03 N 7950140143 P 000102 x01 FLATWASHER 0.25 NOM NARROW SS 2.000 PC -

04 N 7660142601 P a23 LOCKNUT .25"-20NC GR5 HEX NYLOC 2.000 pc -

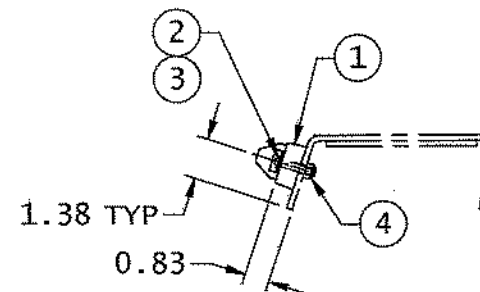
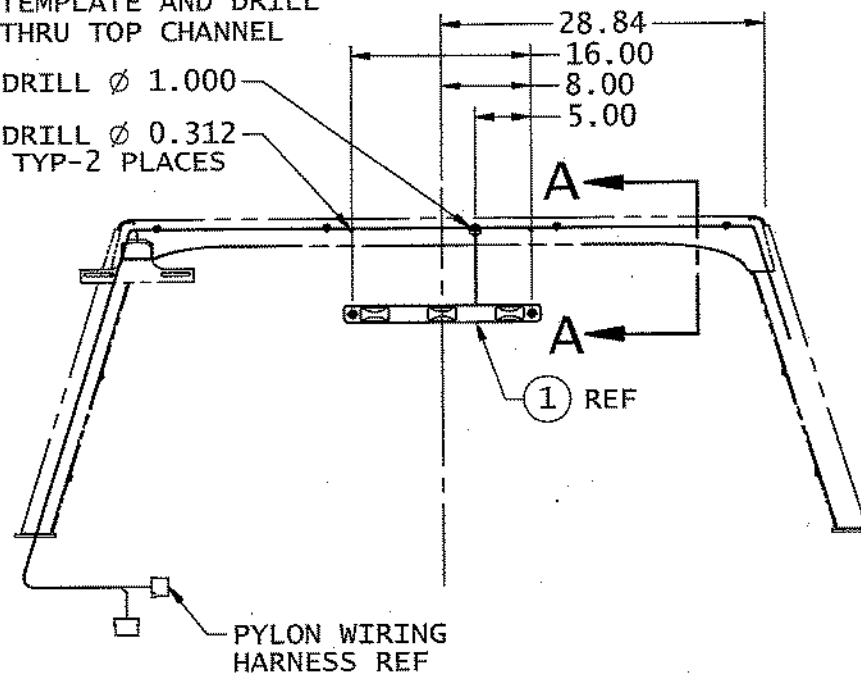
*** End of Item ***

*** End of Report ***

USE ITEM 2 AS A
TEMPLATE AND DRILL
THRU TOP CHANNEL

DRILL $\varnothing$ 1.000

DRILL $\varnothing$ 0.312
TYP-2 PLACES



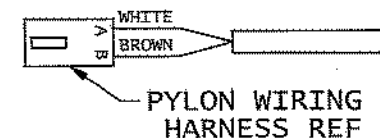
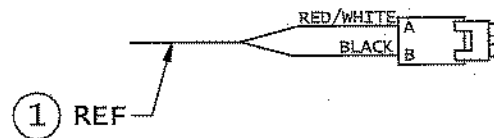
SECTION A-A

CAVITY	CIRCUIT	GA
A	POSITIVE	16
B	NEGATIVE	16

CONNECTOR - 12015792
SEAL - 12015323
TERMINAL - 12124580

CAVITY	CIRCUIT	GA	FUNCTION
A	9	16	GROUND
B	5	16	MARKER

CONNECTOR - 12010973
TERMINAL - 12124582
SEAL - 12015359



JERR-DAN
An Oakleaf Truck Corporation Company

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ACCEPTANCE OF THE FORGING CONDITION.

IF IN DOUBT ASK.
DO NOT SCALE DRAWING.
REMOVE ALL BURRS AND
SHARP CORNERS.

TOLERANCES UNLESS
OTHERWISE SPECIFIED
2 PLACE DEC ± 0.062
3 PLACE DEC ± 0.015
ANGLE DIM $\pm 0.5^\circ$
N/A TO MATERIAL THICKNESS

MAT'L SEE B/M

TITLE
LIGHT INSTALL IDENTIFICATION 3 BAR

SCALE NTS
DATE 03/23/05
ERN 3774
SIZE B
Dwg No 2-590-000164
REV 00

SHEET 1 OF 1
WEIGHT 7 #

REVZONE ERN DESCRIPTION DATE BY

Tow Ball Bracket

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/01/05

Item: 3590800104

HITCH ASSY TOW BALL MPL-40

From Item: 3590800104

To Item: 3590800104

Reference: C/3774C

Last Changed Date:

Revision #0/0

BIN: WA03

UOM: PC

Quantity

1

Receive into Whse: MYPT

Ball Dr

Bin

-oon Sz Component Type Location

Description

QtyPer UOM

Reference

Effectivity

01 C 3178000399

M WA03

BRACKET WELD TOW BALL HITCH

1.000 PC

-

02 B 3691000195

M 021205 WA00

PIN WELD TOW HITCH

2.000 PC

-

03 N 7691000027

P 021205 f15

PIN LINCH W/CHAIN - 1.563" LG

2.000 pc

-

04 A 7330000424

P a06

DECAL TOW HITCH CAUTION

1.000 PC

-

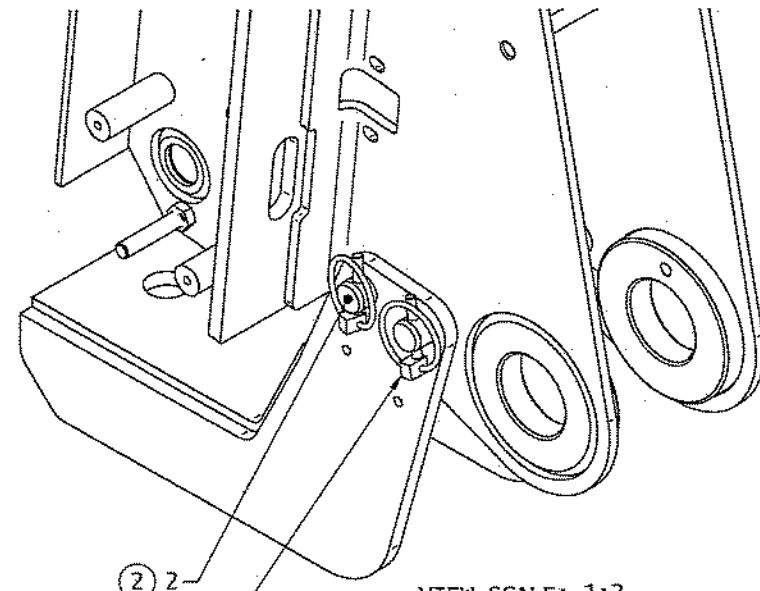
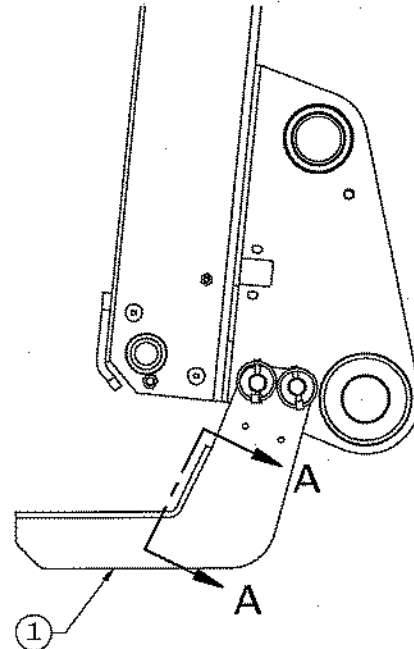
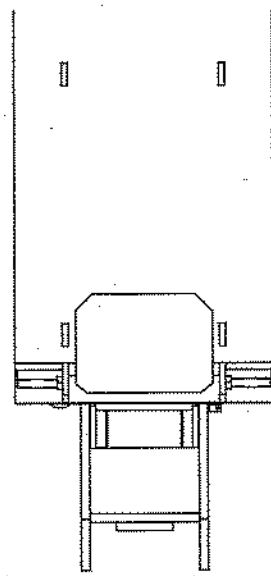
*** End of Item ***

*** End of Report ***

HITCH ASSY TOW BALL MPL-40

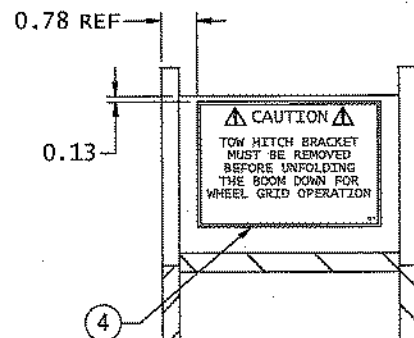
DWG NO
3-590-800104

REV
00



VIEW SCALE: 1:2

SEE NOTE



LOCATE DECAL (ITEM #4)
CENTERED AS SHOWN

SECTION A-A
VIEW SCALE: 1:2

NOTE:
CHAIN AND COTTER PIN NOT SHOWN
FOR ITEM #3. INSERT COTTER
PINS INTO RETAINER HOLES OF
ITEM #1.

COMPATIBLE TOW BALLS (REF)
1.88" DIA J/D# 7-056-000007
2.00" DIA J/D# 7-056-000008

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JERR-DAN A Division of Jerr-Dan Corporation					
TITLE HITCH ASSY TOW BALL MPL-40					
SCALE 1:1		DWG NO 3774		REV 00	
DATE 02/25/03		DRAWN BSK		C 3-590-800104 00	

REVIZIONE EBN DESCRIPTION DATE BY 2

11/02/05 - 377400204.dwg

Cable Tensioner Installation

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/05/05

Item: 3249000022

CABLE TENS ASSY, H200

From Item: 3249000022

To Item: 3249000022

Reference: C/3774C

Last Changed Date:

Quantity	1	Receive into Whse: MYPT	Revision #0/0	BIN: WA03	UOM: PC
----------	---	-------------------------	---------------	-----------	---------

Ball Dr	Bin				
-oon Sz Component Type Location	Description	QtyPer UOM	Reference	Effectivity	
--- == -----	-----	-----	-----	-----	
01 N 7249000006 P m01	LEVEL WINDER FOR H200 RAMSEY #256048	2.000 PC			

*** End of Item ***

*** End of Report ***

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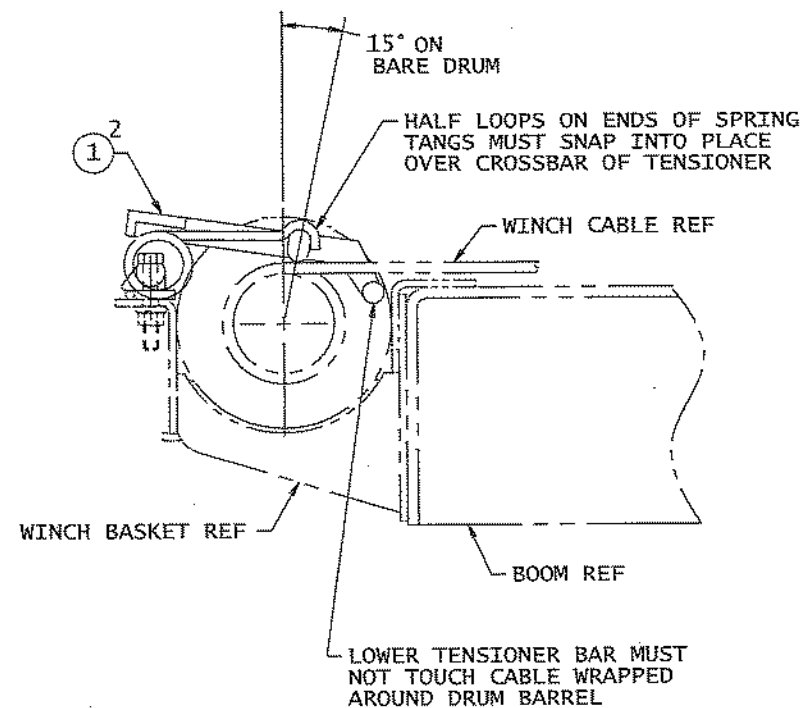
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5.82 TYP

NOTE: ALL MOUNTING HARDWARE AND
INSTALLATION INSTRUCTIONS
INCLUDED WITH LEVEL WINDER (ITEM 1)

SECTION **A - A**

WINCH REF
RAMSEY HD234 LH & RH
(7-970-000103 & 7-970-000104)

JERRI-DAN CORP
1080 HYKES ROAD GREENCASTLE, PA 17225

PROPERTY AND CONFIDENTIALITY INFORMATION		IF IN DOUBT ASK DO NOT SCALE DRAWING. REMOVE ALL BURRS AND SHARP CORNERS.		MATERIAL SEE B/M		SHEET 1 OF 1		WEIGHT ? #					
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						DATE 1/27/05		DRAWN SMB		C 3-249-000022		REV 00	

REVISIONS: ERM DESCRIPTION DATE BY

3/2/05 - 324902022.DJT

Tunnel Toolbox Installation

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/04/05

Item: 2509740039

TUNNEL TOOLBOX INSTL MPL 40 24" WIDE

From Item: 2509740039

To Item: 2509740039

Reference: D/3774E

Last Changed Date:

Revision #0/1/3774

Quantity

1

Receive into Whse: MYPT

BIN: WA03

UOM: PC

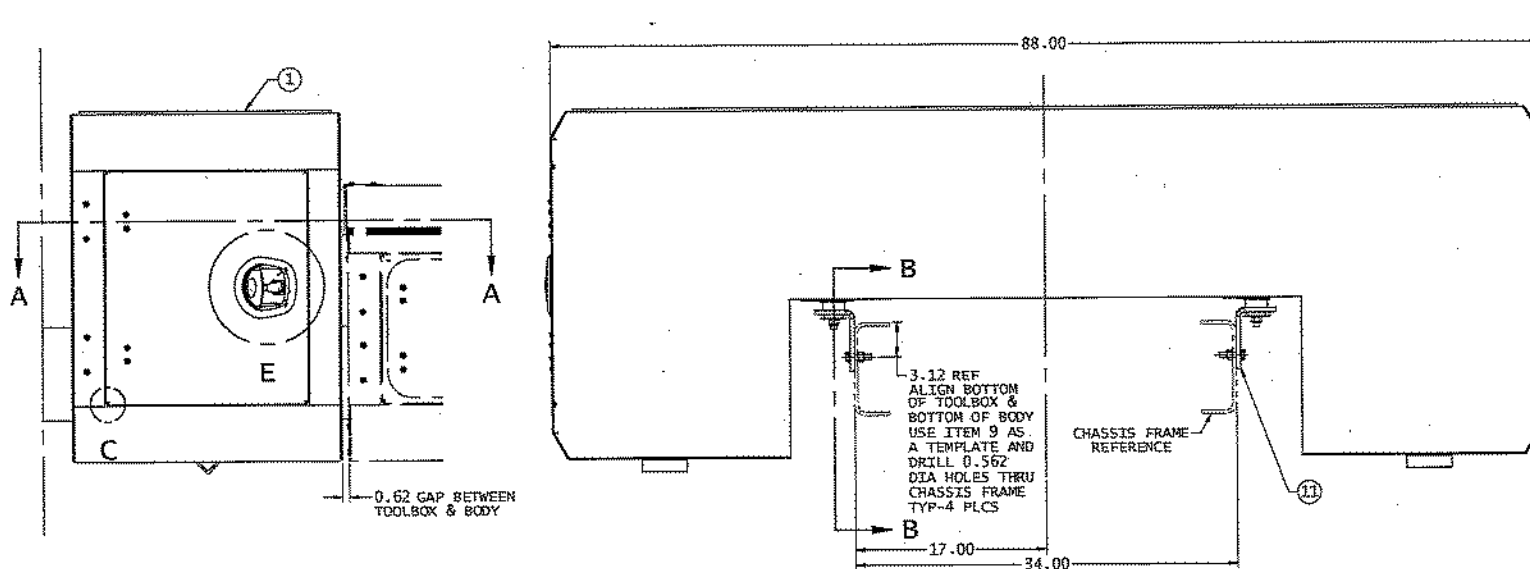
Ball Dr	Bin	oon Sz Component Type Location	Description	QtyPer	UOM	Reference	Effectivity
===	==	=====	=====	=====	===	=====	=====
01	D	3899000121	M WA03	TUNNEL TOOLBOX WELD MPL 40 24"	1.000	PC	-
02	N	7636000005	P 101806 c12 h07	MOUNT CENTER BONDED RUBBER	4.000	pc	-
03	N	7949000013	P 101806 c25 104	WASHER 2.38" DIA. RUBBER HEAD	4.000	pc	-
04	N	7949000012	P 101806 c25	WASHER 2.25" DIA. RUBBER TAIL	4.000	pc	-
05	N	7115182650	P 080305 a59 x01	CAPSCREW .50"-13NC X 3.25" HEX HEAD	4.000	pc	-
06	N	7115181650	P 030601 a54	CAPSCREW 0.50"-13NC X 2.00" HEX HEAD	4.000	PC	-
07	N	7950180153	P 000104 x01	FLATWASHER .50" NOM HARDENED	8.000	pc	-
08	N	7660182601	P 000105 x01	LOCKNUT .50"-13NC GR5 HEC NYLOC	8.000	PC	-
09	C	4017000674	M t01 WA00	ANGLE 0.38 x 8.32 x 23.38	2.000	PC	-
10	B	4679000249	M WA03	PAD 0.19 x 19.31 x 23.25 RUBBER	2.000	PC	-
11	B	4679000250	M WA03	PAD 0.19 x 21.50 x 46.00 RUBBER - CENTER	1.000	PC	-
12	B	7555000012	P m09	HINGE DOOR S/S	4.000	PC	-
13	N	7114140818	P 000108 A125 x0	CAPSCREW 0.25"-20 X 1.00" SS BT HD	16.000	PC	-
14	A	7949000056	P a13	WASHER NYLON 0.50 OD x 0.25 x 0.03THK	16.000	PC	-
15	N	7950140161	P 000104 A96	FLATWASHER .25" NOM WIDE - PLATED	16.000	pc	-
16	N	7660142601	P a23	LOCKNUT .25"-20NC GR5 HEX NYLOC	16.000	pc	-
17	D	4686000208	M AS14	PANEL 0.12 x 18.92 x 21.93 DOOR TBX	2.000	PC	-
18	B	4632000053	M WA03	SEAL DOOR x 69.00	2.000	PC	-
19	C	7585000019	P n-floor	LATCH ERGONOMIC T HANDLE LH 1-8400-L-31	1.000	PC	-
20	C	7585000020	P n-floor	LATCH ERGONOMIC T HANDLE RH 1-8400-R-31	1.000	PC	-
21	A	4062000569	M WA01	BAR 0.12 x 0.50 x 4.00 ALUM	2.000	PC	-
22	A	4706003611	M AS13	PLATE 10GA X 1.00 X 4.00 SS	2.000	PC	-
23	N	7759000006	P 000104 c20	POP RIVET .13"DIA X .50" GRIP ALUM	4.000	pc	-
24	N	7632046140	P	MOULDING #1750 G-DYNAMIC - 140" LG	1.000	ft	-

*** End of Item ***

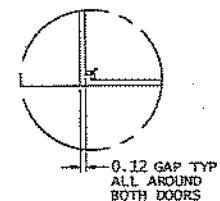
*** End of Report ***

TUNNEL TOOLBDX INSTALL 24" WIDE MPL-40

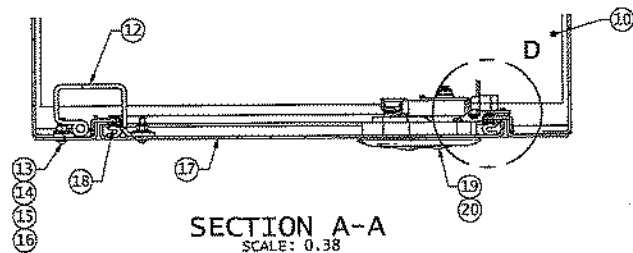
ENGINE NO 2-509-740039 REV 01



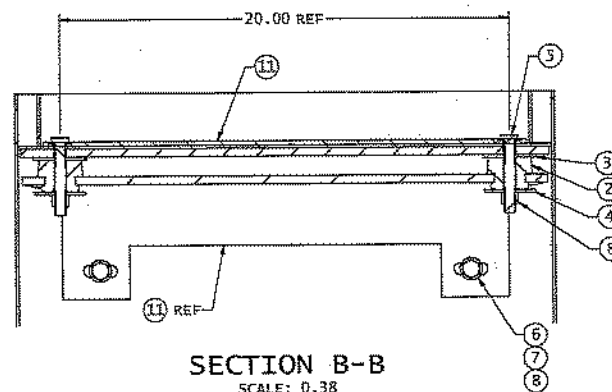
DETAIL D
SCALE: 0.75
ADJUST LATCH SO THAT WHEN DOOR IS CLOSED IT IS FLUSH WITH THE FRONT OF TOOLBOX



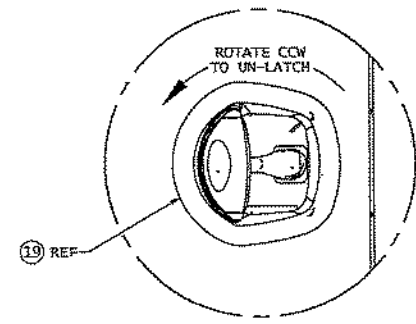
DETAIL C
SCALE: 0.75



SECTION A-A
SCALE: 0.38



SECTION B-B
SCALE: 0.38



DETAIL E
SCALE: 0.50
LH LATCH SHOWN
RH SIDE ROTATION OPPOSITE
ALL HARDWARE TO INSTALL LATCH IS INCLUDED

NOTES:

- ITEM 24 NOT SHOWN FOR CLARITY. LOCATE MOULDING BETWEEN TUNNEL TOOLBOX AND FRONT OF BODY. ADHESIVE SIDE TO WRECKER BODY.
- LOCATE ITEM 10 & 11 IN BOTTOM OF TOOLBOX TO PROTECT PAINT.

JERRIDIAN			
REV	DATE	DESCRIPTION	BY
01	11/22/04	TUNNEL TOOLBOX INSTALL 24" WIDE MPL-40	WV
02	11/22/04	REVISED TO ADD 11.00 DIMENSION	WV
03	11/22/04	REVISED TO ADD 11.00 DIMENSION	WV
04	11/22/04	REVISED TO ADD 11.00 DIMENSION	WV
05	11/22/04	REVISED TO ADD 11.00 DIMENSION	WV
06	11/22/04	REVISED TO ADD 11.00 DIMENSION	WV
07	11/22/04	REVISED TO ADD 11.00 DIMENSION	WV
08	11/22/04	REVISED TO ADD 11.00 DIMENSION	WV
09	11/22/04	REVISED TO ADD 11.00 DIMENSION	WV
10	11/22/04	REVISED TO ADD 11.00 DIMENSION	WV
11	11/22/04	REVISED TO ADD 11.00 DIMENSION	WV
12	11/22/04	REVISED TO ADD 11.00 DIMENSION	WV
13	11/22/04	REVISED TO ADD 11.00 DIMENSION	WV
14	11/22/04	REVISED TO ADD 11.00 DIMENSION	WV
15	11/22/04	REVISED TO ADD 11.00 DIMENSION	WV
16	11/22/04	REVISED TO ADD 11.00 DIMENSION	WV
17	11/22/04	REVISED TO ADD 11.00 DIMENSION	WV
18	11/22/04	REVISED TO ADD 11.00 DIMENSION	WV
19	11/22/04	REVISED TO ADD 11.00 DIMENSION	WV
20	11/22/04	REVISED TO ADD 11.00 DIMENSION	WV
21	11/22/04	REVISED TO ADD 11.00 DIMENSION	WV
22	11/22/04	REVISED TO ADD 11.00 DIMENSION	WV
23	11/22/04	REVISED TO ADD 11.00 DIMENSION	WV
24	11/22/04	REVISED TO ADD 11.00 DIMENSION	WV

Switch Panel Installation

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/01/05

Item: 3870000012

SWITCH PANEL ASSY 3 FUNC UNDERDASH QP

From Item: 3870000012

To Item: 3870000012

Reference: X0748/3325-N Last Changed Date:

Revision #0/1/3/74

Quantity	1	Receive into Whse: HYKS	BIN:	UOM: PC
----------	---	-------------------------	------	---------

Ball Dr	Bin							
-oon Sz	Component	Type	Location	Description	QtyPer	UOM	Reference	Effectivity
=== ==	=====		=====	=====	=====	===	=====	=====
01	C	7870000053	P	010301 e08 f05 SWITCH PANEL #9800343	1.000	PC		-
02	N	7346000039	P	d14 g-floor j0 TUBING .25"ID HS W/ADHESIVE - 48" LG	2.000	pc		-
03	N	7345001614	P	CONNECTOR 18-22 GA NON-INSUL BUTT	1.000	pc		-
04	N	7345001914	P	022506 c19 j16 TERMINAL #123005 10-12 NON-INSULATED	1.000	pc		-
05	NOT		F	*****ITEM NOT REQUIRED*****	1.000	PC		-
06	NOT		F	*****ITEM NOT REQUIRED*****	1.000	PC		-
07	NOT		F	*****ITEM NOT REQUIRED*****	1.000	PC		-
08	NOT		F	*****ITEM NOT REQUIRED*****	1.000	PC		-
09	NOT		F	*****ITEM NOT REQUIRED*****	1.000	PC		-

*** End of Item ***

*** End of Report ***

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/01/05

Item: 3870000013

SWITCH PANEL ASSY 5 FUNC UNDERDASH QP

From Item: 3870000013

To Item: 3870000013

Reference: X0748/3325-N Last Changed Date:

Revision #0/1/3774

BIN:

UOM: PC

Quantity	1	Receive into Whse: HYKS						
Ball Dr		Bin						
-oon Sz Component Type Location		Description		QtyPer	UOM	Reference	Effectivity	
---	---	-----	-----	-----	---	-----	-----	-----
01	C 7870000063	P e07 j63	SWITCH PANEL TSD 5 BUTTON #9900193	1.000	PC		-	
02	N 7346000039	P d14 g-floor j0	TUBING .25"ID HS W/ADHESIVE - 48" LG	2.000	pc		-	
03	N 7345001614	P	CONNECTOR 18-22 GA NON-INSUL BUTT	1.000	pc		-	
04	N 7345001914	P 022506 c19 j16	TERMINAL #123005 10-12 NON-INSULATED	1.000	pc		-	
05	A 7330000288	P 012222 c06	DECAL SWITCH BOX LABEL INSERT SHEET	1.000	ea		-	
06	NOT	F	*****ITEM NOT REQUIRED*****	1.000	PC		-	
07	NOT	F	*****ITEM NOT REQUIRED*****	1.000	PC		-	
08	NOT	F	*****ITEM NOT REQUIRED*****	1.000	PC		-	
09	NOT	F	*****ITEM NOT REQUIRED*****	1.000	PC		-	

*** End of Item ***

*** End of Report ***

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/01/05

Item: 3870000014

SWITCH PANEL ASSY 5 FUNC INDASH QP FORD

From Item: 3870000014

To Item: 3870000014

Reference: X0748/3325-N

Last Changed Date:

Revision #0/1/3774

BIN:

UOM: PC

Quantity	1	Receive into Whse: HYKS					
Ball Dr	Bin			QtyPer	UOM	Reference	Effectivity
-oon Sz Component Type Location	Description			=====	----	=====	=====
01 B 7870000089	P 101306 c01 e08	SWITCH PANEL IN-DASH 5 FUNCTION		1.000	PC		-
02 N 7346000039	P d14 g-floor j0	TUBING .25" ID HS W/ADHESIVE - 48" LG		2.000	pc		-
03 N 7345001614	P	CONNECTOR 18-22 GA NON-INSUL BUTT		2.000	pc		-
04 N 7345001914	P 022506 c19 j16	TERMINAL #123005 10-12 NON-INSULATED		1.000	pc		-
05 NOT	F	*****ITEM NOT REQUIRED*****		1.000	PC		-
06 N 7345001910	P j16 x01	TAB #193005 .25" 10-12 NON-INSUL (F)		2.000	pc		-
07 N 7345001710	P c20 j19	TAB #192005 .25" 14-16 NON-INSUL (F)		3.000	pc		-
08 NOT	F	*****ITEM NOT REQUIRED*****		1.000	PC		-
09 NOT	F	*****ITEM NOT REQUIRED*****		1.000	PC		-

*** End of Item ***

*** End of Report ***

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/01/05

Item: 3870000015

SWITCH PANEL ASSY 6 FUNC INDASH QP FORD

From Item: 3870000015

To Item: 3870000015

Reference: X0748/3325-N Last Changed Date: 07/02/02

Revision #0/1/3774

BIN:

UOM: PC

Quantity		1		Receive into Whse: HYKS		Revision #0/1/3774		BIN:		UOM: PC	
Ball Dr	Bin										
-oon Sz Component Type	Location		Description		QtyPer		UOM		Reference		Effectivity
==== == =====	=====		=====		=====		=====		=====		=====
01	B	7870000091	P		SWITCH PANEL, IN-DASH , 6 FUNCTION,	1.000	PC				-
02	N	7346000039	P	d14 g-floor j0	TUBING .25"ID HS W/ADHESIVE - 48" LG	2.000	pc				-
03	N	7345001614	P		CONNECTOR 18-22 GA NON-INSUL BUTT	2.000	pc				-
04	N	7345001914	P	022506 c19 j16	TERMINAL #123005 10-12 NON-INSULATED	1.000	pc				-
05		NOT	F		*****ITEM NOT REQUIRED*****	1.000	PC				-
06	N	7345001910	P	j16 x01	TAB #193005 .25" 10-12 NON-INSUL (F)	2.000	pc				-
07	N	7345001710	P	c20 j19	TAB #192005 .25" 14-16 NON-INSUL (F)	4.000	pc				-
08		NOT	F		*****ITEM NOT REQUIRED*****	1.000	PC				-
09		NOT	F		*****ITEM NOT REQUIRED*****	1.000	PC				-

*** End of Item ***

*** End of Report ***

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/01/05

Item: 3870000018

SWITCH ASSY NO SWITCH PANEL MPL-40

From Item: 3870000018

To Item: 3870000018

Reference: X0748/3774E

Last Changed Date:

Revision #071/3774

Quantity

1

Receive into Whse: MYPT

BIN: WA03

UOM: PC

Ball Dr

Bin

-oon Sz Component Type Location

Description

QtyPer UOM

Reference

Effectivity

=== == =====

=====

=====

=====

=====

01 B 2870000008 M RA08 SWITCH INST SINGLE ROCKER W/ LED INDICA

1.000 PC

-

02 N 7346000039 P d14 g-floor j0 TUBING .25" ID HS W/ADHESIVE - 48" LG

2.000 pc

-

03 NOT F *****ITEM NOT REQUIRED*****

1.000 PC

-

04 NOT F *****ITEM NOT REQUIRED*****

1.000 PC

-

05 NOT F *****ITEM NOT REQUIRED*****

1.000 PC

-

06 NOT F *****ITEM NOT REQUIRED*****

1.000 PC

-

07 NOT F *****ITEM NOT REQUIRED*****

1.000 PC

-

08 NOT F *****ITEM NOT REQUIRED*****

1.000 PC

-

09 NOT F *****ITEM NOT REQUIRED*****

1.000 PC

-

*** End of Item ***

*** End of Report ***

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/01/05

Item: 3870000019

SWITCH ASSY 4 FUNC INDASH OEM 05 FORD

From Item: 3870000019

To Item: 3870000019

Reference:X0748/3774E

Last Changed Date:

Revision #0/1/3774

BIN: WA03

UOM: PC

Quantity	1	Receive into Whse: MYPT						
Ball Dr		Bin						
-oon Sz Component Type Location		Description		QtyPer	UOM	Reference	Effectivity	
---	---	-----	-----	-----	---	-----	-----	-----
01	NOT	F	*****ITEM NOT REQUIRED*****	1.000	PC		-	
02	N 7346000039	P d14 g-floor j0	TUBING .25"ID HS W/ADHESIVE - 48" LG	2.000	pc		-	
03	N 7345001614	P	CONNECTOR 18-22 GA NON-INSUL BUTT	3.000	pc		-	
04	N 7345001914	P 022506 c19 j16	TERMINAL #123005 10-12 NON-INSULATED	1.000	pc		-	
05	NOT	F	*****ITEM NOT REQUIRED*****	1.000	PC		-	
06	NOT	F	*****ITEM NOT REQUIRED*****	1.000	PC		-	
07	NOT	F	*****ITEM NOT REQUIRED*****	1.000	PC		-	
08	NOT	F	*****ITEM NOT REQUIRED*****	1.000	PC		-	
09	NOT	F	*****ITEM NOT REQUIRED*****	1.000	PC		-	

*** End of Item ***

*** End of Report ***

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/01/05

Item: 3870000020

SWITCH ASSY 6 FUNC INDASH 05 FORD

From Item: 3870000020

To Item: 3870000020

Reference: X0748/3774E

Last Changed Date:

Revision #0/1/3774

BIN: WA03

UOM: PC

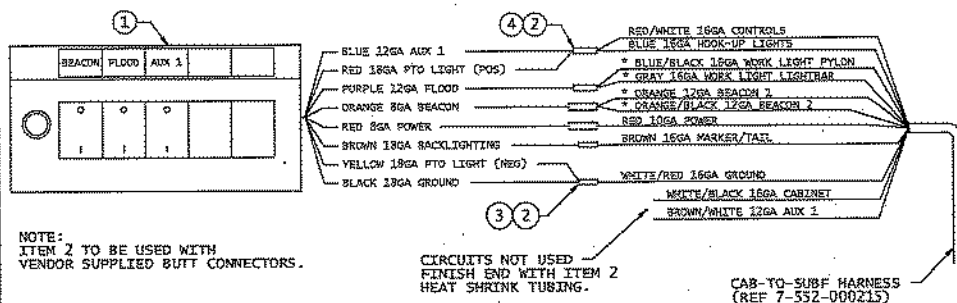
Quantity	1	Receive into Whse: MYPT		Reference: X0748/3774E		Last Changed Date:	
Ball Dr	Bin	Description		QtyPer	UOM	Reference	Effectivity
-oon Sz Component Type Location							
====	====	=====		=====	====	=====	=====
01	B 7870000117	P	SWITCH PANEL IN-DASH 6 FUNCTION THERMAL	1.000	PC		-
02	N 7346000039	P d14 g-floor j0	TUBING .25" ID HS W/ADHESIVE - 48" LG	2.000	pc		-
03	N 7345001614	P	CONNECTOR 18-22 GA NON-INSUL BUTT	2.000	pc		-
04	N 7345001914	P 022506 c19 j16	TERMINAL #123005 10-12 NON-INSULATED	1.000	pc		-
05	NOT	F	*****ITEM NOT REQUIRED*****	1.000	PC		-
06	N 7345001910	P j16 x01	TAB #193005 .25" 10-12 NON-INSUL (F)	2.000	pc		-
07	N 7345001710	P c20 j19	TAB #192005 .25" 14-16 NON-INSUL (F)	4.000	pc		-
08	NOT	F	*****ITEM NOT REQUIRED*****	1.000	PC		-
09	NOT	F	*****ITEM NOT REQUIRED*****	1.000	PC		-

*** End of Item ***

*** End of Report ***

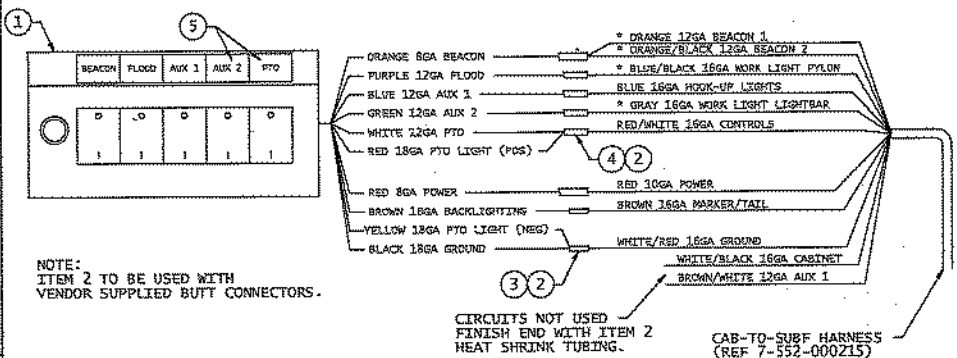
ELECTRICAL ASSY SWITCH PANEL SELF LOADER

DWG NO 5-264-000748 01 REV



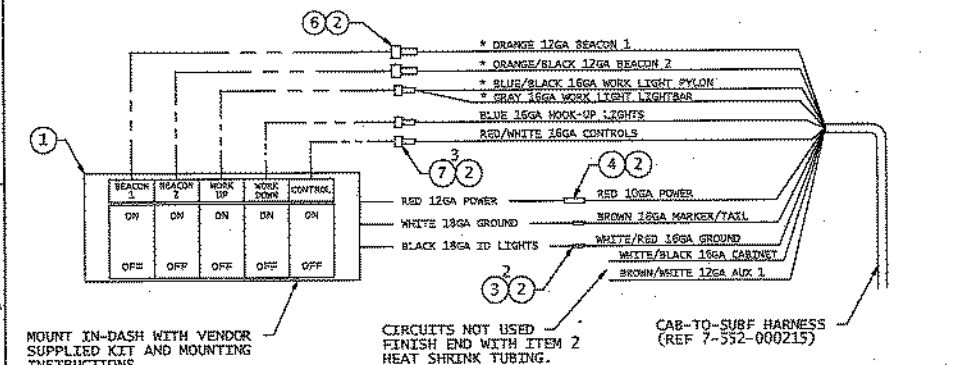
NOTE:
ITEM 2 TO BE USED WITH
VENDOR SUPPLIED BUTT CONNECTORS.

3 FUNCTION UNDER DASH
(REF 7-870-000053)



NOTE:
ITEM 2 TO BE USED WITH
VENDOR SUPPLIED BUTT CONNECTORS.

5 FUNCTION UNDER DASH
(REF 7-870-000063)

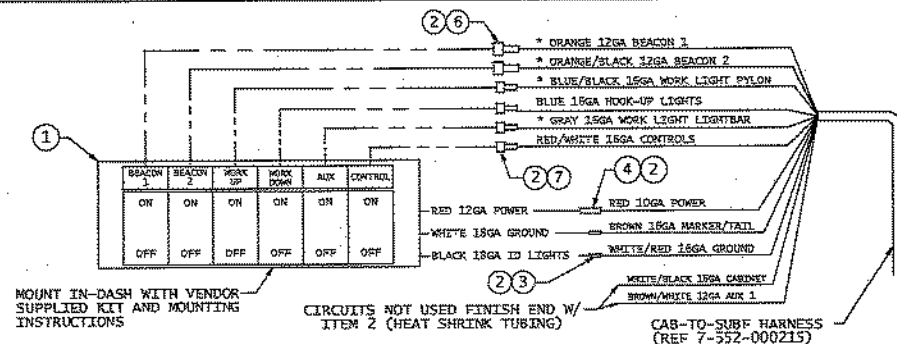


MOUNT IN-DASH WITH VENDOR
SUPPLIED KIT AND MOUNTING
INSTRUCTIONS.

5 FUNCTION IN DASH FORD
(2004 MODEL REF 7-870-000089)

NOTE:

OPTIONAL ITEMS, WIRE AS REQUIRED



MOUNT IN-DASH WITH VENDOR
SUPPLIED KIT AND MOUNTING
INSTRUCTIONS

CIRCUITS NOT USED FINISH END W/
ITEM 2 (HEAT SHRINK TUBING)

CAB-TO-SUBF HARNESS
(REF 7-552-000215)

6 FUNC IN DASH FORD
(2004 MODEL REF 7-870-000091)
(2005 MODEL REF 7-870-000117)

CIRCUIT	GA	COLOR	FUNCTION
18	16	GRAY	WORK LIGHTS, LIGHTBAR
17	12	BROWN/WHITE	AUX 1
16	16	WHITE/RED	GROUND
15	16	BROWN/BLACK	CLUTCH PUMP
14	16	RED/WHITE	CONTROLS
13	10	RED	HOT CIRC
12	12	ORANGE	BEACON 1
11	12	ORANGE/BLACK	BEACON 2
10	16	BLUE/BLACK	WORK LIGHTS, PYLON
9	10	WHITE	GROUND
7	16	BLUE	HOOK-UP LIGHTS
6	16	WHITE/BLACK	CABINET
5	16	BROWN	MARKER/TAIL

1 MPL-40 ONLY	3-870-000019	SWITCH PANEL ASSY 4 FUNC IN-DASH (OEM) FORD
	3-870-000018	SWITCH PANEL ASSY NO SWITCH PANEL MPL-40
1 QP-40 ONLY	3-870-000017	SWITCH PANEL ASSY 4 FUNC IN-DASH (OEM) FORD
	3-870-000016	SWITCH PANEL ASSY NO SWITCH PANEL
	3-870-000020	SWITCH PANEL ASSY 6 FUNC INDASH (2005) FORD
	3-870-000015	SWITCH PANEL ASSY 6 FUNC INDASH (2004) FORD
1 QP-40 OR MPL-40	3-870-000014	SWITCH PANEL ASSY 5 FUNC INDASH (2004) FORD
	3-870-000013	SWITCH PANEL ASSY 5 FUNC UNDER-DASH
	3-870-000012	SWITCH PANEL ASSY 3 FUNC UNDER-DASH
	PART #	DESCRIPTION

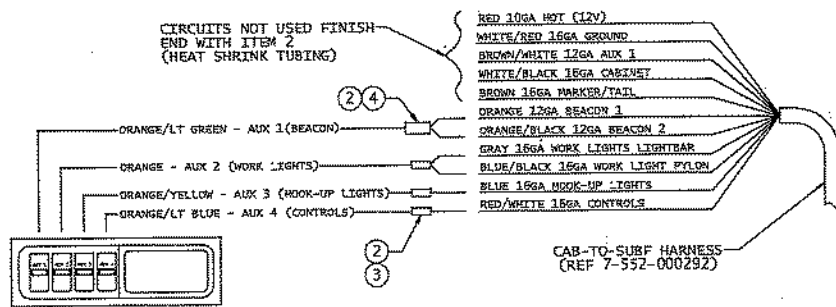
STERN-DAN CORP.
2000 10TH AVE. S. MINNEAPOLIS, MN 55404
TEL: 612-332-1111 FAX: 612-332-1112
E-MAIL: STERN-DAN@STERN-DAN.COM
WWW.STERN-DAN.COM

1 OF 2
PAGE 7

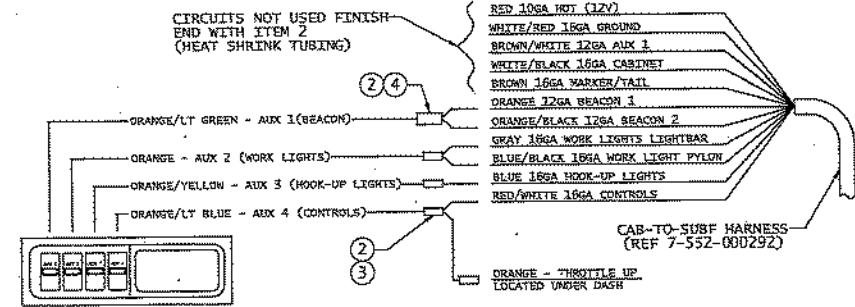
154 ELECTRICAL ASSY SWITCH PANEL SELF LOADER
REV 1.1 (REV 3/22/04) (REV 3/22/04) (REV 3/22/04)
5-264-000748 01

ELECTRICAL ASSY SWITCH PANEL SELF LOADER

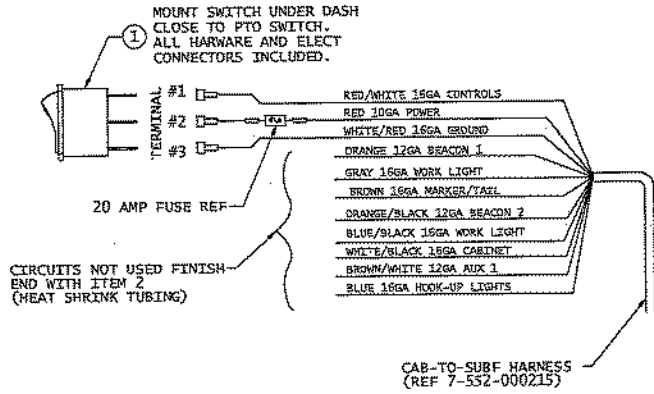
DWG NO 5-264-000748 REV 01



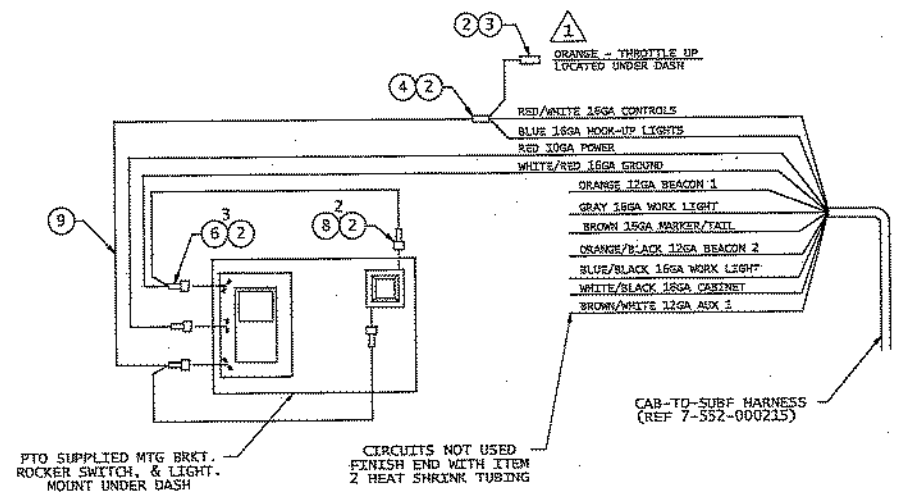
4 FUNCTION IN DASH
(OPTIONAL 2005 FORD OEM)
MPL-40 ONLY



4 FUNCTION IN DASH
(OPTIONAL 2005 FORD OEM)
QP-40 ONLY



NO SWITCH PANEL
(REF 2-870-000008)
MPL-40 ONLY



NO SWITCH PANEL
QP-40 ONLY

JERRY-DAN CORP		2005 FORD F350 - F450	
DATE	2 OF 2	REV	7.4
ELECTRICAL ASSY SWITCH PANEL SELF LOADER		05-264-000748	
REV	01	DATE	05/27/04
REV	02	DATE	05/27/04
REV	03	DATE	05/27/04
REV	04	DATE	05/27/04
REV	05	DATE	05/27/04
REV	06	DATE	05/27/04
REV	07	DATE	05/27/04
REV	08	DATE	05/27/04
REV	09	DATE	05/27/04
REV	10	DATE	05/27/04
REV	11	DATE	05/27/04
REV	12	DATE	05/27/04
REV	13	DATE	05/27/04
REV	14	DATE	05/27/04
REV	15	DATE	05/27/04
REV	16	DATE	05/27/04
REV	17	DATE	05/27/04
REV	18	DATE	05/27/04
REV	19	DATE	05/27/04
REV	20	DATE	05/27/04

Emergency Light Bar Installation

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/01/05

Item: 2590000162

LIGHT INSTALL 60" HALOGEN FED SIG MPL-40

From Item: 2590000162

To Item: 2590000162

Reference: X0827/3774E

Last Changed Date:

Revision #0/0

Quantity

1

Receive into Whse: MYPT

BIN:

WA03

UOM: PC

Ball Dr

Bin

-oon Sz Component Type Location

Description

QtyPer UOM

Reference

Effectivity

--- -- -----

01 N 7590000236 P loft u01 LIGHTBAR 60" FEDERAL SIGNAL W/ D.O.T.

1.000 PC

-

02 B 4178000402 M 100201 h06 RA0 BRACKET 10GA x 1.50 x 5.45 LIGHTBAR MNT

2.000 PC

-

03 N 7115181050 P 080305 a48 x01 CAPSCREW .50"-13NC X 1.25" HEX HEAD

2.000 PC

-

04 N 7660182601 P 000105 x01 LOCKNUT .50"-13NC GR5 HEC NYLOC

2.000 PC

-

05 N 7346000039 P d14 g-floor j0 TUBING .25"ID HS W/ADHESIVE - 48" LG

.125 pc

-

*** End of Item ***

*** End of Report ***

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/01/05

Item: 2590000163

LIGHT INSTALL 60" STROBE FED SIG MPL-40

From Item: 2590000163

To Item: 2590000163

Reference: X0827/3774E

Last Changed Date:

Revision #0/0

Quantity

1

Receive into Whse: MYPT

BIN: WA03

UOM: PC

Ball Dr

Bin

-oon Sz Component Type Location

Description

QtyPer UOM

Reference

Effectivity

--- --

01 B 7590000229 P 10ft SR-Annex LIGHTBAR 60" 6-STRB/4-FLSHR (FED SIG)

1.000 PC

-

02 B 4178000402 M 100201 h06 RAO BRACKET 10GA x 1.50 x 5.45 LIGHTBAR MNT

2.000 PC

-

03 N 7115181050 P 080305 a48 x01 CAPSCREW .50"-13NC X 1.25" HEX HEAD

2.000 PC

-

04 N 7660182601 P 000105 x01 LOCKNUT .50"-13NC GR5 HEC NYLOC

2.000 PC

-

05 N 7346000039 P d14 g-floor j0 TUBING .25"ID HS W/ADHESIVE - 48" LG

.125 pc

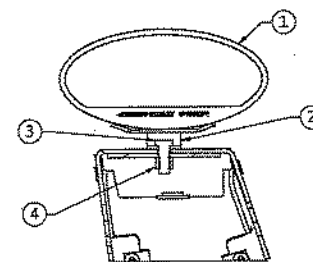
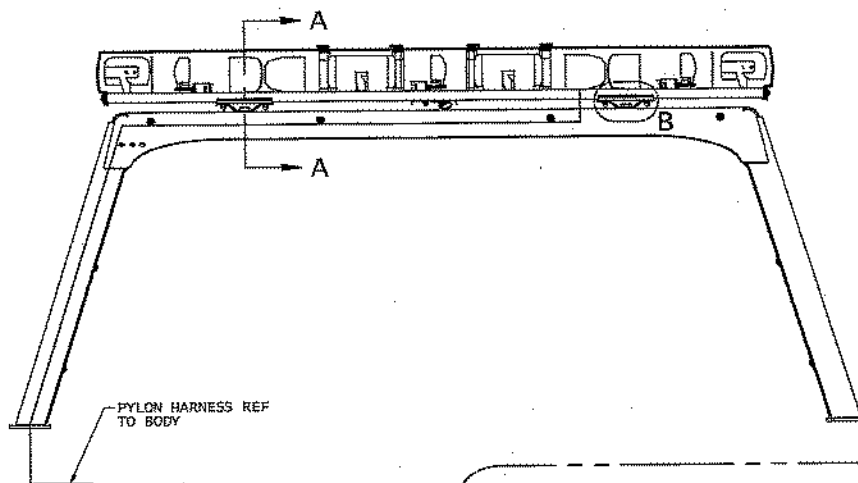
-

*** End of Item ***

*** End of Report ***

LIGHT INSTALL EMERGENCY BAR MPL-40

DWG NO 5-264-000827 REV 00



MOUNTING HARDWARE
SUPPLIED W/ LIGHTBAR

DETAIL B
TYP-2 PLACES

SECTION A-A

INCORPORATING CABLE COLOR	OPTION	WIRE TYPE
WHITE	COMMON GROUND	10 GA. WIRE
ORANGE	BEACON 1	12 GA. WIRE
ORANGE/BLACK	BEACON 2	12 GA. WIRE
BROWN	WAKE/TALE	16 GA. WIRE
YELLOW	L.H. STOP/TURN	16 GA. WIRE
GREEN	R.H. STOP/TURN	16 GA. WIRE
GRAY	WORKLIGHT - LIGHT BAR	16 GA. WIRE
PURPLE/WHITE	LEFT TURN (EASIER)	16 GA. WIRE
BLUE/WHITE	RIGHT TURN (EASIER)	16 GA. WIRE

NOTE:
TERMINATE ALL UNUSED WIRE
ENDS WITH ITEM 8, HEAT
SHIELDING TUBING

PURPLE/WHITE
BLUE/WHITE

SUPPLIED WITH WIRE HARNESS
CONNECTOR: 12012488
TERMINAL: 12012489 (16GA)
TERMINAL SEAL: 12012490 (16GA)
LOCK (TYP): 12012491 (16GA)

A ORANGE/BLACK
B ORANGE
C WHITE

SUPPLIED WITH WIRE HARNESS
CONNECTOR: 12012488
TERMINAL: 12012489 (16GA)
TERMINAL SEAL: 12012490 (16GA)
LOCK (TYP): 12012491 (16GA)

D GRAY
C YELLOW
B GREEN
A BROWN

PYLON HARNESS
TO
LIGHTBAR HARNESS

INCORPORATING CABLE COLOR	OPTION	WIRE TYPE
BLACK	COMMON GROUND	10 GA. WIRE
RED	OUTER ROTATORS (120 TYP.)	14 GA. WIRE
RED/BLACK	CENTER ROTATORS (120 TYP.)	14 GA. WIRE
YELLOW	WAKE/TALE / D.O.T. STOP	16 GA. WIRE
ORANGE	DRIVERS SIDE BRAKE/TURN	16 GA. WIRE
WHITE	PASSENGER SIDE BRAKE/TURN	16 GA. WIRE
YELLOW/BLACK	WORKLIGHTS	16 GA. WIRE
BLUE	NOT USED	16 GA. WIRE
BLUE/BLACK	NOT USED	16 GA. WIRE

SUPPLIED WITH LIGHT BAR
CONNECTOR: 12012488
TERMINAL: 12012489 (16GA)
TERMINAL SEAL: 12012490 (16GA)
LOCK (TYP): 12012491 (16GA)

BLUE/BLACK
BLUE

SUPPLIED WITH LIGHT BAR
CONNECTOR: 12012488
TERMINAL: 12012489 (16GA)
TERMINAL SEAL: 12012490 (16GA)
LOCK (TYP): 12012491 (16GA)

RED/BLACK
RED
BLACK

SUPPLIED WITH LIGHT BAR
CONNECTOR: 12012488
TERMINAL: 12012489 (16GA)
TERMINAL SEAL: 12012490 (16GA)
LOCK (TYP): 12012491 (16GA)

YELLOW/BLACK
ORANGE
WHITE
YELLOW

2-590-000162
HALOGEN LIGHT WIRING
TO PYLON HARNESS

SUPPLIED WITH LIGHT BAR
CONNECTOR: 12012488
TERMINAL: 12012489 (16GA)
TERMINAL SEAL: 12012490 (16GA)
LOCK (TYP): 12012491 (16GA)

RED/BLACK
RED
BLACK

SUPPLIED WITH LIGHT BAR
CONNECTOR: 12012488
TERMINAL: 12012489 (16GA)
TERMINAL SEAL: 12012490 (16GA)
LOCK (TYP): 12012491 (16GA)

YELLOW/BLACK
ORANGE
WHITE
YELLOW

INCORPORATING CABLE COLOR	OPTION	WIRE TYPE
BLACK	COMMON GROUND	10 GA. WIRE
RED	ALL STROBE HEADS	14 GA. WIRE
RED/BLACK	ALL FLASHERS	14 GA. WIRE
YELLOW	CLASANCE	16 GA. WIRE
ORANGE	L.H. STOP/TURN	16 GA. WIRE
WHITE	R.H. STOP/TURN	16 GA. WIRE
YELLOW/BLACK	WORKLIGHTS	16 GA. WIRE
BLUE	NOT USED	16 GA. WIRE
BLUE/BLACK	OPTIONAL	16 GA. WIRE

2-590-000163
STROBE LIGHT WIRING
TO PYLON HARNESS

D2-590-000162 LIGHT INSTL 80" BAR HALOGEN FED SIG MPL-40
D2-590-000163 LIGHT INSTL 60" BAR STROBE FED SIG MPL-40

THIS DRAWING AND ANY OTHER DRAWING OF THIS PROJECT ARE THE PROPERTY OF JERRALDAN. IT IS TO BE USED ONLY FOR THE PROJECT SPECIFICALLY IDENTIFIED HEREON. IT IS TO BE RETURNED TO JERRALDAN UPON COMPLETION OF THE PROJECT. IT IS NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF JERRALDAN.		DATE: 05/23/05 DRAWN BY: [Signature] CHECKED BY: [Signature] APPROVED BY: [Signature]
PROJECT: LIGHT INSTALL EMERGENCY BAR MPL-40		DATE: 05/23/05 DRAWN BY: [Signature] CHECKED BY: [Signature] APPROVED BY: [Signature]

Tow Sling Installation

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 11/28/05

Item: 2509610059

TOW SLING INSTALL MPL-40 SINGLE LINE

From Item: 2509610059

To Item: 2509610059

Reference: X/00824/3774C Last Changed Date: 11/04/05

Quantity		1		Receive into Whse: MYPT		Revision #D/3/3904		BIN: WA03		UOM: PC	
Ball Dr	Bin										
-con Sz Component Type Location	Description	QtyPer	UOM	Reference	Effectivity						
=== == =====	=====	=====	====	=====	=====						
01 B 4178000621	M WA03	BRACKET 0.31 x 10.26 x 13.06	2.000	PC	3858	08/16/05-					
02 B 3309000007	M 090203 WA03	U-JOINT WELDMENT	2.000	PC		-					
03 7115223806	P 080303 g04 WA0	BOLT .63"-11NC X 4.75" HEX SHOULDER	2.000	pc		-					
04 N 7660202601	P 080304 MDFIE W	LOCKNUT .63"-11NC NYLON INSERT ZINC PLAT	2.000	PC		-					
05 C 3020000007	M 090204 WA03	HOLD BACK ARM ASSEMBLY	2.000	PC	3858	08/16/05-					
06 B 4706005225	M WA03	PLATE 0.25 x 3.38 x 5.25	1.000	PC	3904	11/22/05-					
07 7105223250	P 080303 WA00C	CAPSCREW .75"-16NF X 4.00" HEX HEAD	2.000	pc	3904	11/22/05-					
08 A 7661000017	P 080305 WA00C	LOCKNUT .75"-16NF X .625"HT TORQUE	2.000	pc		-					
09 C 4178000622	M WA03	BRACKET 0.31 x 2.12 x 10.68	2.000	PC	3858	08/16/05-					
10 N 7115161064	P 000108 WA00A	BOLT .38"-16NC X 1.25 CARRIAGE	4.000	PC	3858	08/16/05-					
11 N 7950160161	P 000104 14ASB W	FLATWASHER .38" NOM WIDE - PLATED	4.000	PC	3858	08/16/05-					
12 A 4679000276	P d01	PAD 0.75 x 1.63 x 3.25 UHMW	1.000	PC	3904	11/22/05-					
13 N 7790161253	P 000105 x01	SCREW .38"-16NC X .75" TAP TITE	1.000	PC	3904	11/22/05-					
14 DEL	M	*****ITEM DELETED*****	1.000	PC	3858	08/16/05-					
15 A 7691000053	P f15	PIN, HITCH w/ LANYARD .75 DIA x 3" rev02	2.000	PC	3774	03/28/05-					
16 DEL	M	*****ITEM DELETED*****	1.000	PC	3774	03/28/05-					
17 D 3500800073	M 090203 WA00	TOW SLING HEAD WELD & ASSY	1.000	PC		-					
18 7822000003	P 090203 m02 WA0	SLING CABLE BELT - 8" X 42"	2.000	PC		-					
19 B 4062000556	M 090203 WS6A	BAR 0.25 x 1.75 x 8.00	2.000	PC	3774	03/18/05-					
20 N 7118163218	P WA00C	CAPSCREW 0.38-16 x 4.00 BT HD SOC	6.000	PC		-					
21 N 7660162601	P 000105 14ASB A	LOCKNUT .38"-16NC GR5 NYLOC	20.000	pc	3858	08/16/05-					
22 DEL	M	*****ITEM DELETED*****	1.000	PC	3858	08/16/05-					
23 DEL	M	*****ITEM DELETED*****	1.000	PC	3858	08/16/05-					
24 DEL	M	*****ITEM DELETED*****	1.000	PC	3858	08/16/05-					
25 B 3017000008	M 090203 WS6B	ANGLE WELD ANCHOR	1.000	PC		-					
26 B 4706000727	M 090203 WS6A	PLATE 0.25 x 5.00 x 31.00	1.000	PC		-					
27 N 7115161250	P 000102 14ASB M	CAPSCREW .38"-16NC X 1.50" HEX HEAD	10.000	PC	3858	08/16/05-					
28 7804000001	P 010205 g09	SHACKLE 5/8" GALV. ANCHOR 4.5TON	1.000	PC		-					
29 DEL	M	*****ITEM DELETED*****	1.000	PC	3858	08/16/05-					
30 DEL	M	*****ITEM DELETED*****	1.000	PC	3858	08/16/05-					
31 DEL	M	*****ITEM DELETED*****	1.000	PC	3858	08/16/05-					

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 11/28/05

Item: 2509610059

TOW SLING INSTALL MPL-40 SINGLE LINE

From Item: 2509610059

To Item: 2509610059

Reference: X/00824/3774C Last Changed Date: 11/04/05

Revision #D/3/3904

Quantity	1	Receive into Whse: MYPT	BIN: WA03	UOM: PC
----------	---	-------------------------	-----------	---------

Ball Dr	Bin							
-oon Sz	Component	Type	Location	Description	QtyPer	UOM	Reference	Effectivity
====	==	=====	=====	=====	=====	==	=====	=====
32	DEL	M		*****ITEM DELETED*****	1.000	PC	3858	08/16/05-
33	DEL	M		*****ITEM DELETED*****	1.000	PC	3858	08/16/05-
34	DEL	M		*****ITEM DELETED*****	1.000	PC	3858	08/16/05-
35	C 4178000624	M MDF1		BRACKET 0.38 x 4.68 x 6.80 LH	1.000	PC	3858	08/16/05-
36	C 4178000625	M MDF1		BRACKET 0.38 x 4.68 x 6.80 RH	1.000	PC	3858	08/16/05-
37	DEL	M		*****ITEM DELETED*****	1.000	PC	3858	08/16/05-
38	8632000002	R e12		TRIM .25"EDGE-BLACK VINYL #1350-B-2X1/4A	2.380	FT	3858	08/16/05-
39	B 7262000010	P m07 n01	RACK 7	CHAIN 0.31 X 8' W/J&T HOOK	2.000	PC	3774	03/21/05-
40	A 7330000556	P c02		DECAL TOW SLING POSITION INDICATOR	2.000	PC	3858	08/16/05-

*** End of Item ***

*** End of Report ***

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 11/28/05

Item: 2509610047

TOW SLING INSTALLATION MPL-40 DUAL LINE

From Item: 2509610047

To Item: 2509610047

Reference: X/00824/3774C Last Changed Date: 11/04/05

Revision #D/3/3904

Quantity

1

Receive into Whse: MYPT

BIN: WA03

UOM: PC

Ball Dr	Bin	oon Sz Component Type Location	Description	QtyPer	UOM	Reference	Effectivity
=====	=====	=====	=====	=====	=====	=====	=====
01	B	4178000621	M WA03	BRACKET 0.31 x 10.26 x 13.06	2.000	PC	3858 08/16/05-
02	B	3309000007	M 090203 WA03	U-JOINT WELDMENT	2.000	PC	-
03		7115223806	P 080303 g04 WA0	BOLT .63"-11NC X 4.75" HEX SHOULDER	2.000	pc	-
04	N	7660202601	P 080304 MDFLE W	LOCKNUT .63"-11NC NYLON INSERT ZINC PLAT	2.000	PC	-
05	C	3020000007	M 090204 WA03	HOLD BACK ARM ASSEMBLY	2.000	PC	3858 08/16/05-
06	B	4706005225	M WA03	PLATE 0.25 x 3.38 x 5.25	1.000	PC	3904 11/22/05-
07		7105223250	P 080303 WA00C	CAPSCREW .75"-16NF X 4.00" HEX HEAD	2.000	pc	3904 11/22/05-
08	A	7661000017	P 080305 WA00C	LOCKNUT .75"-16NF X .625"HT TORQUE	2.000	pc	-
09	C	4178000622	M WA03	BRACKET 0.31 x 2.12 x 10.68	2.000	PC	3858 08/16/05-
10	N	7115161064	P 000108 WA00A	BOLT .38"-16NC X 1.25 CARRIAGE	4.000	PC	3858 08/16/05-
11	N	7950160161	P 000104 14ASB W	FLATWASHER .38" NOM WIDE - PLATED	8.000	PC	3858 08/16/05-
12	A	4679000276	P d01	PAD 0.75 x 1.63 x 3.25 UHMW	1.000	PC	3904 11/22/05-
13	N	7790161253	P 000105 x01	SCREW .38"-16NC X .75" TAP TITE	1.000	PC	3904 11/22/05-
14	DEL		M	*****ITEM DELETED*****	1.000	PC	3858 08/16/05-
15	A	7691000053	P f15	PIN, HITCH w/ LANYARD .75 DIA x 3" rev02	2.000	PC	3774 03/28/05-
16	DEL		M	*****ITEM DELETED*****	1.000	PC	3774 03/28/05-
17	D	3500800073	M 090203 WA00	TOW SLING HEAD WELD & ASSY	1.000	PC	-
18		7822000003	P 090203 m02 WA0	SLING CABLE BELT - 8" X 42"	2.000	PC	-
19	B	4062000556	M 090203 WS6A	BAR 0.25 x 1.75 x 8.00	2.000	PC	3774 03/18/05-
20	N	7118163218	P WA00C	CAPSCREW 0.38-16 x 4.00 BT HD SOC	6.000	PC	-
21	N	7660162601	P 000105 14ASB A	LOCKNUT .38"-16NC GR5 NYLOC	20.000	pc	3858 08/16/05-
22	DEL		M	*****ITEM DELETED*****	1.000	PC	3858 08/16/05-
23	DEL		M	*****ITEM DELETED*****	1.000	PC	3858 08/16/05-
24	DEL		M	*****ITEM DELETED*****	1.000	PC	3858 08/16/05-
25	B	3017000008	M 090203 WS6B	ANGLE WELD ANCHOR	1.000	PC	-
26	B	4706000727	M 090203 WS6A	PLATE 0.25 x 5.00 x 31.00	1.000	PC	-
27	N	7115161250	P 000102 14ASB M	CAPSCREW .38"-16NC X 1.50" HEX HEAD	10.000	PC	3858 08/16/05-
28		7804000001	P 010205 g09	SHACKLE 5/8" GALV. ANCHOR 4.5TON	2.000	PC	-
29	DEL		M	*****ITEM DELETED*****	1.000	PC	3858 08/16/05-
30	DEL		M	*****ITEM DELETED*****	1.000	PC	3858 08/16/05-
31	DEL		M	*****ITEM DELETED*****	1.000	PC	3858 08/16/05-

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 11/28/05

Item: 2509610047

TOW SLING INSTALLATION MPL-40 DUAL LINE

From Item: 2509610047

To Item: 2509610047

Reference: X/00824/3774C Last Changed Date: 11/04/05

Revision #D/3/3904

Quantity

1

Receive into Whse: MYPT

BIN:

WA03

UOM: PC

Ball Dr

Bin

-oon Sz Component Type Location

Description

QtyPer UOM

Reference

Effectivity

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32	DEL	M		*****ITEM DELETED*****	1.000	PC	3858	08/16/05-
33	DEL	M		*****ITEM DELETED*****	1.000	PC	3858	08/16/05-
34	DEL	M		*****ITEM DELETED*****	1.000	PC	3858	08/16/05-
35	C 4178000624	M MDF1		BRACKET 0.38 x 4.68 x 6.80 LH	1.000	PC	3858	08/16/05-
36	C 4178000625	M MDF1		BRACKET 0.38 x 4.68 x 6.80 RH	1.000	PC	3858	08/16/05-
37	DEL	M		*****ITEM DELETED*****	1.000	PC	3858	08/16/05-
38	8632000002	R e12		TRIM .25"EDGE-BLACK VINYL #1350-B-2X1/4A	2.380	FT	3858	08/16/05-
39	B 7262000010	P m07 n01	RACK 7	CHAIN 0.31 X 8' W/J&T HOOK	2.000	PC	3774	03/21/05-
40	A 7330000556	P c02		DECAL TOW SLING POSITION INDICATOR	2.000	PC	3858	08/16/05-

*** End of Item ***

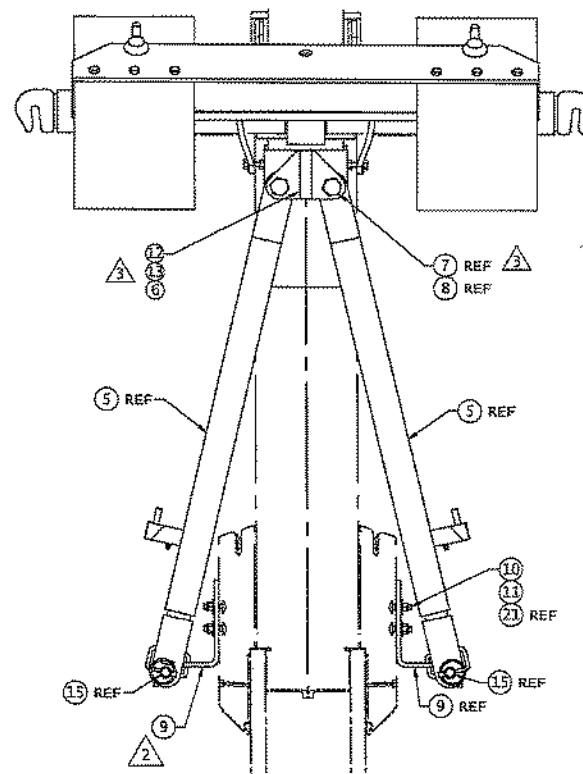
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TOW SLING INSTALLATION MPL-40

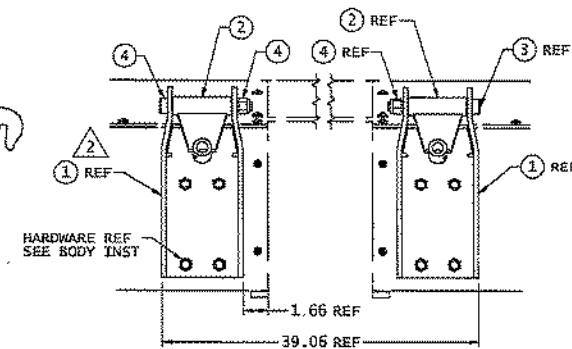
DWG NO 5-264-000824 REV 03

NOTES:

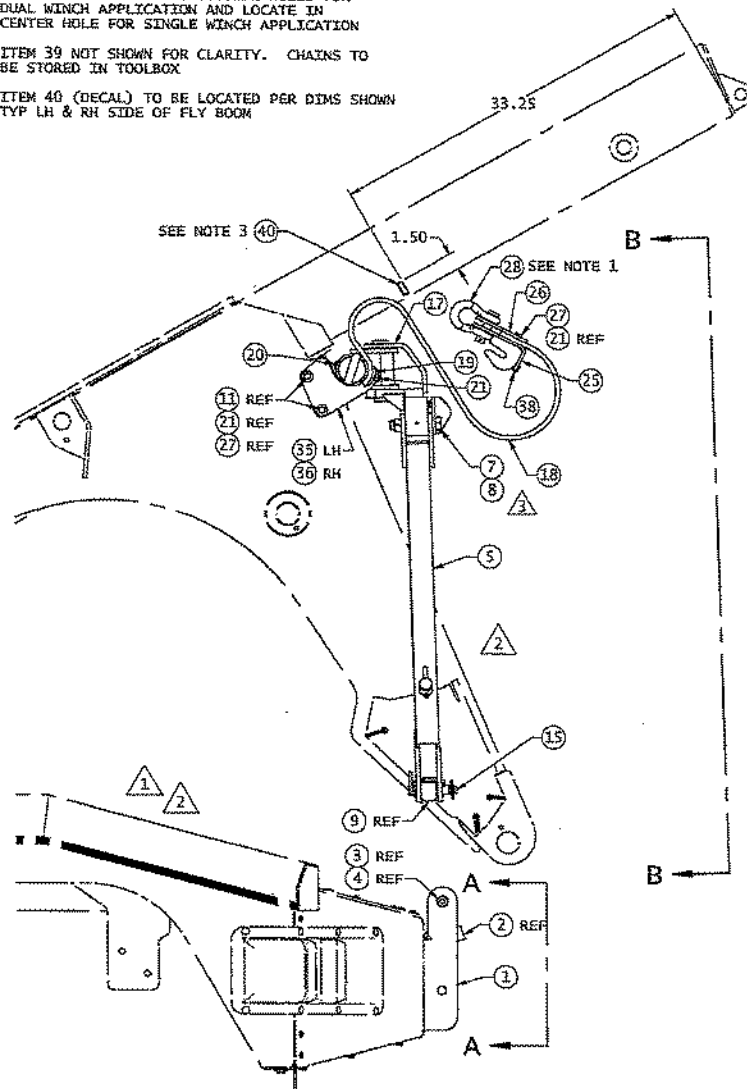
1. LOCATE ITEM 28 IN TWO OUTSIDE HOLES FOR DUAL WINCH APPLICATION AND LOCATE IN CENTER HOLE FOR SINGLE WINCH APPLICATION
2. ITEM 39 NOT SHOWN FOR CLARITY. CHAINS TO BE STORED IN TOOLBOX
3. ITEM 40 (DECAL) TO BE LOCATED PER DIMS SHOWN TYP LH & RH SIDE OF FLY BOOM



SECTION B-B



SECTION A-A



2-509-610047 TOW SLING INSTALL DUAL LINE MPL-40
2-509-610059 TOW SLING INSTALL SINGLE LINE MPL-40

(1) 1/2" X 1/4" X 1
--

Tow Dolly Installation

Miscellaneous Lighting

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 08/01/05

Item: 2590000126

LIGHT INSTALL PYLON WORK

From Item: 2590000126

To Item: 2590000126

Reference: B/3325-N

Last Changed Date:

Revision #0/0

BIN:

UOM: PC

Quantity

1

Receive into Whse: HYKS

Ball Dr

Bin

-oon Sz Component Type Location

Description

QtyPer UOM

Reference

Effectivity

--- -- -----

01 A 7590000144 P 100901 e-floor LIGHT 4X6 HALOGEN WORK #74001-00 12V

2.000 PC

02 N 7346000039 P d14 g-floor j0 TUBING .25"ID HS W/ADHESIVE - 48" LG

1.000 pc

*** End of Item ***

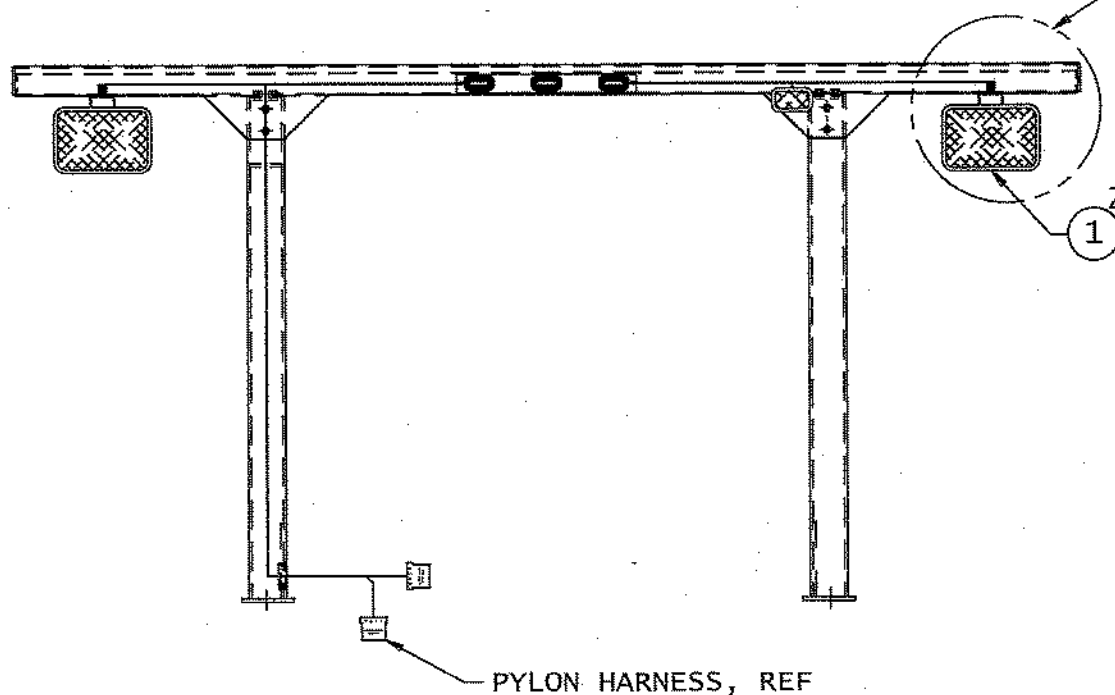
*** End of Report ***

GENERAL NOTES

DO NOT SCALE DRAWING
BREAK SHARP CORNERS

M DENOTES "CRITICAL"
DIMENSION AND MUST
BE CONTROLLED BY
STATISTICAL ANALYSIS

DETAIL **A**



WHITE
BLUE/BLACK

PYLON
HARNESS, REF

DETAIL **A**

REV	ERN	DESCRIPTION	DATE	DRN

TOLERANCES (EXCEPT AS NOTED)		JERR-DAN CORP. GREENCASTLE, PA.	
DECIMAL	PAT'L SEE B/M	SCALE	DRAWN BY RMF
2 PLACE .062		0.13	ERN NO. 3325
3 PLACE .015			
ANGULAR	TITLE LIGHT ASSY, PYLON WORK LIGHTS		
±0° 30'	DATE	NEXT ASS'Y	ORIGINAL
LIMITS ARE TO BE NON-ACCUMULATIVE PER A LINE OF DIMENSIONS.	6/24/02	DRAWING NO.	B2-590-000126

Miscellaneous Accessories

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 09/30/05

Item: 3178000445

BRKT ASSY FOLD DOWN LIGHT BAR

From Item: 3178000445

To Item: 3178000445

Reference: D/3847

Last Changed Date:

Quantity		1	Receive into Whse: MYPT		Revision #0/0	BIN: WA03	UOM: PC	
Ball Dr	Bin		Description		QtyPer	UOM	Reference	Effectivity
-oon Sz Component Type Location					=====	----	-----	-----
01	B	3178000443	M	WA03	BRKT WELD FOLD DOWN LIGHT BAR BOTTOM	2.000	PC	-
02	A	4090000012	M	WA03	BELT 0.12 x 2.00 x 6.38	2.000	PC	-
03	N	7115161250	P	000102	CAPSCREW .38"-16NC X 1.50" HEX HEAD	8.000	PC	-
04	N	7950160161	P	000104 x01	FLATWASHER .38" NOM WIDE - PLATED	8.000	PC	-
05	N	7660162601	P	000105 x01	LOCKNUT .38"-16NC GR5 NYLOC	8.000	pc	-
06	B	3178000444	M	WA03	BRKT WELD FOLD DOWN LIGHT BAR TOP	2.000	PC	-
07	A	7585000001	P	100605 c12	FLEXIBLE DRAW LATCH, T-HANDLE STYLE	2.000	PC	-
08		7114100518	P		CAPSCREW #10-24NC x .62" SS HEX SH BT HD	4.000	PC	-
09	N	7950100103	P		FLATWASHER, #10 REG. SS	4.000	PC	-
10	N	7660102604	P	022603 a21	LOCKNUT #10-24UNC SS	4.000	PC	-
11	N	7690144800	P	a05	PIN 0.25 X 3.00 CLEVIS PLATED	2.000	PC	-
12	N	7690000810	P	000107 c14	PIN 0.063 X 0.50 COTTER	2.000	PC	-

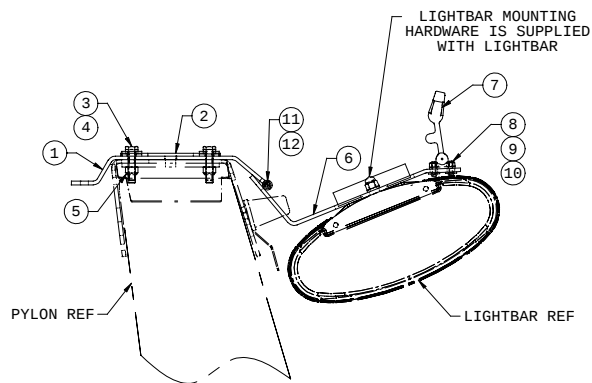
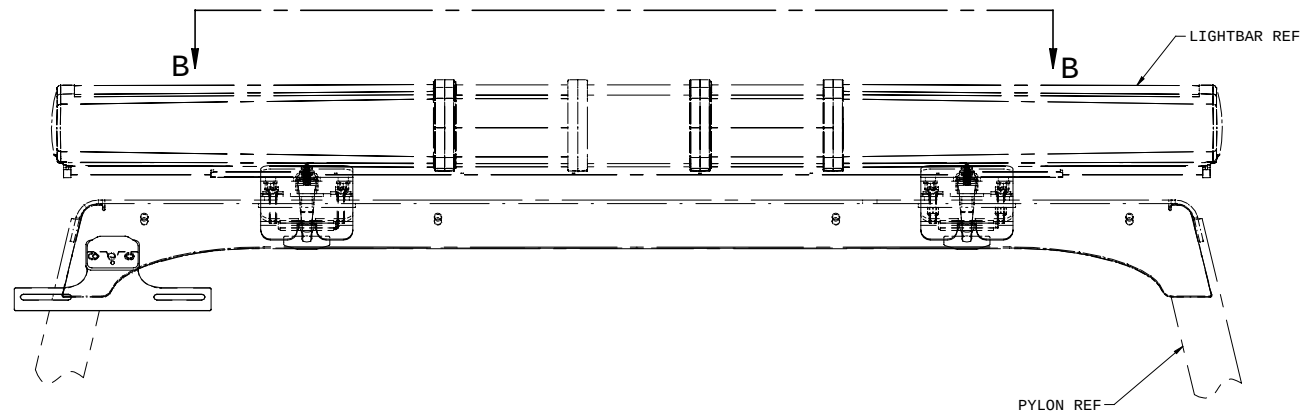
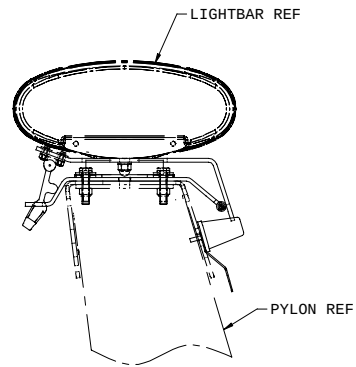
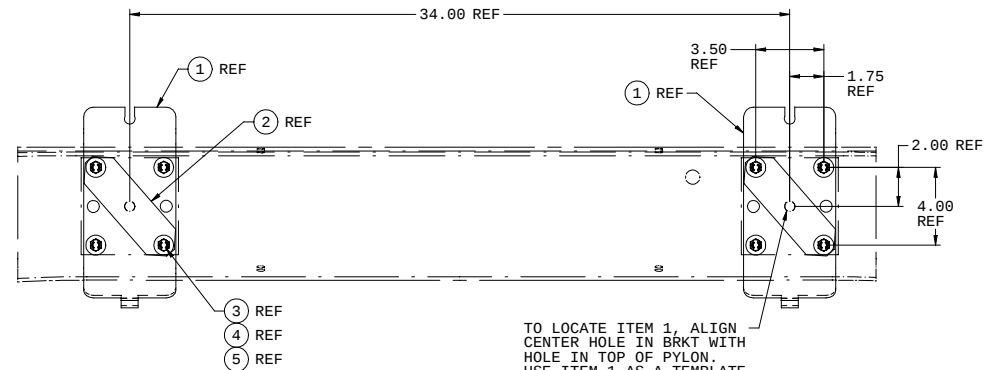
*** End of Item ***

*** End of Report ***

BRKT ASSY FOLD DOWN LIGHT BAR

DWG NO
3-178-000445

REV

LIGHTBAR MOUNTING
HARDWARE IS SUPPLIED
WITH LIGHTBARTO LOCATE ITEM 1, ALIGN
CENTER HOLE IN BRKT WITH
HOLE IN TOP OF PYLON.
USE ITEM 1 AS A TEMPLATE
AND DRILL $\varnothing 0.406$ HOLES
QTY-4 PLACES**SECTION B-B**
ITEMS 6-12 AND LIGHTBAR
REF NOT SHOWN FOR CLARITY

REV	DESCRIPTION	DATE	BY
1	DESCRIPTION	DATE	BY

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---	--	--	---	--------------	-----------	--------	-------	--------------

JERR-DAN
An Oakdale Valve Company DivisionTITL
BRKT ASSY FOLD DOWN LIGHT BAR
SCALE 0.31
DATE 4/15/95
DRAWN SHB
SIZE D
REV D
3-178-000445SHEET 1 OF 1
REVISION 7 #

***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.

Effective as of 01/12/06

Item: 2178000036

BRACKET INST MOTORCYCLE TOW

From Item: 2178000036

To Item: 2178000036

Last Changed Date:

Reference: D/3895

Revision #070

Receive into Whse: MYPT

BIN: WA03

UOM: PC

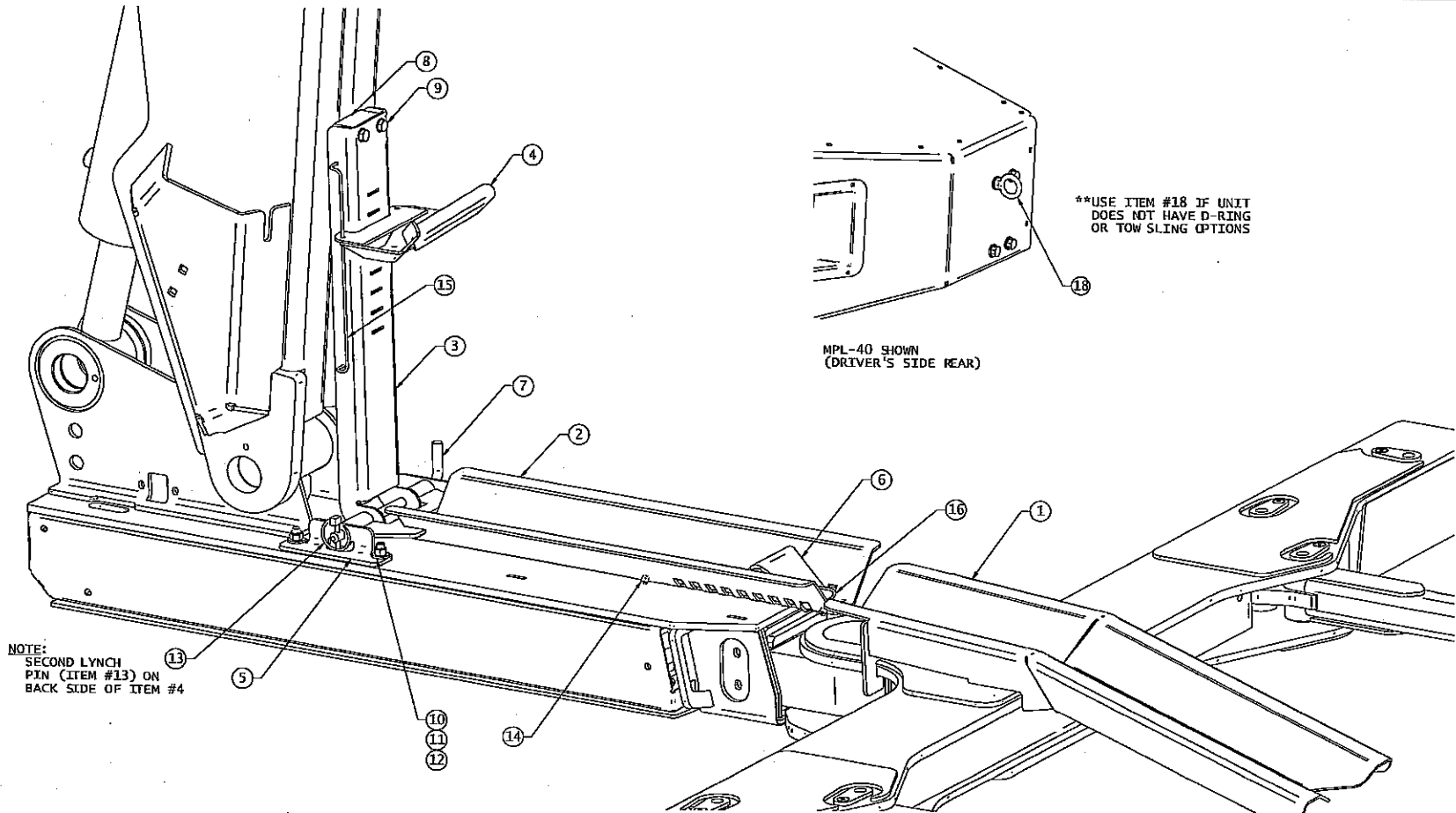
Quantity	1			Receive into Whse: MYPT					
Ball Dr		Bin							
-oon Sz	Component	Type	Location	Description	QtyPer	UOM	Reference	Effectivity	
===	==	=====	=====	=====	=====	==	=====	=====	
01	D 3178000470	M	WA03	BRACKET WELD MOTORCYCLE REAR RAMP	1.000	PC		-	
02	D 3178000468	M	WA03	BRACKET WELD MOTORCYCLE BOOM LOWER	1.000	PC		-	
03	C 4263000710	M	WA03	CHANNEL 3.5 x 1.50 x 0.19 x 22.00	1.000	PC		-	
04	B 3178000469	M	WA03	BRACKET WELD MOTORCYCLE TIRE STOP	1.000	PC		-	
05	B 4178000636	M	WA03	BRACKET 0.19 x 2.62 x 6.00	2.000	PC		-	
06	B 4178000639	M	WA03	BRACKET 0.19 x 3.50 x 5.55	1.000	PC		-	
07	B 4691000547	M	WA03	PIN 0.50 DIA x 10.25	1.000	PC		-	
08	A 4679000275	M	WA03	PAD 1.00 x 1.44 x 2.50	1.000	PC		-	
09	N 7790161253	P	000105 x01	SCREW .38"-16NC X .75" TAP TITE	2.000	PC		-	
10	N 7115161064	P	000108 WA00A	BOLT .38"-16NC X 1.25 CARRIAGE	4.000	PC		-	
11	N 7950160161	P	000104 14ASB M	FLATWASHER .38" NOM WIDE - PLATED	4.000	PC		-	
12	N 7660162601	P	000105 14ASB A	LOCKNUT .38"-16NC GR5 NYLOC	4.000	pc		-	
13	A 7691000047	P	a25 f15	PIN LYNCH 0.25 DIA x 1.56 LG #63-02	2.000	PC		-	
14	A 7819000012	P	c11	SLEEVE COMPRESSION 1/8 I.D. x 5/16 ALUM	4.000	PC		-	
15	A 4248000002	M	WA03	WIRE ROPE 3/32 DIA VINYL COATED x 19.5	1.000	PC		-	
16	A 4248000003	M	WA03	WIRE ROPE 3/32 DIA VINYL COATED x 14.5	1.000	PC		-	
17	N 7577000375	P	A-FLOOR	TIE DOWN KIT MOTORCYCLE	1.000	PC		-	
18	A 7120000052	P	a21	BOLT EYE 0.50-13NC x 1.50 CROSBY #S279	2.000	PC		-	

*** End of Item ***

*** End of Report ***

BRACKET INST MOTORCYCLE TOW

DWG NO 2-178-000036 REV 00



NOTE:
SECOND LYNCH
PIN (ITEM #13) ON
BACK SIDE OF ITEM #4

ITEM #17 (MOTORCYCLE TIE DOWN KIT) NOT SHOWN

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TITLE BRACKET INST MOTORCYCLE TOW	DATE 11/19/05	REV 00
DRAWN BY 2835	CHECKED BY 2835	DATE 11/19/05
2-178-000036		

