

\$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

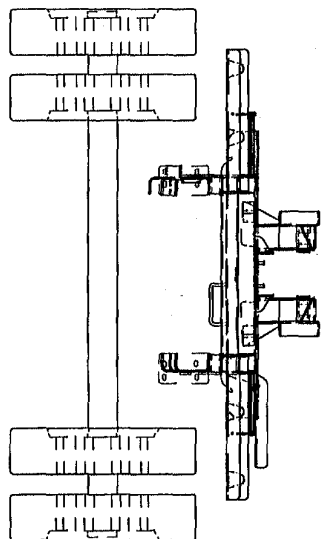
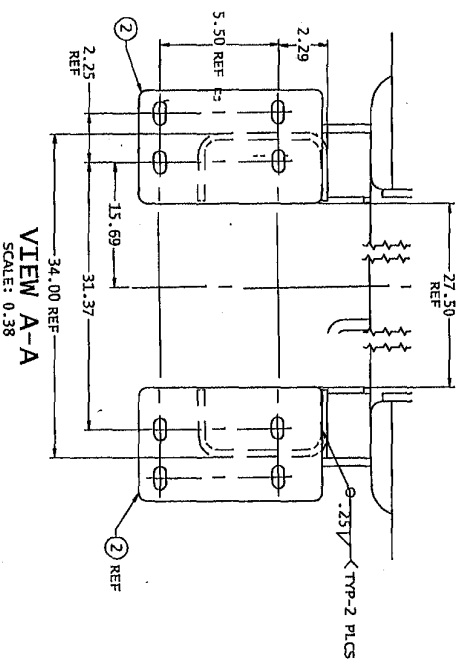
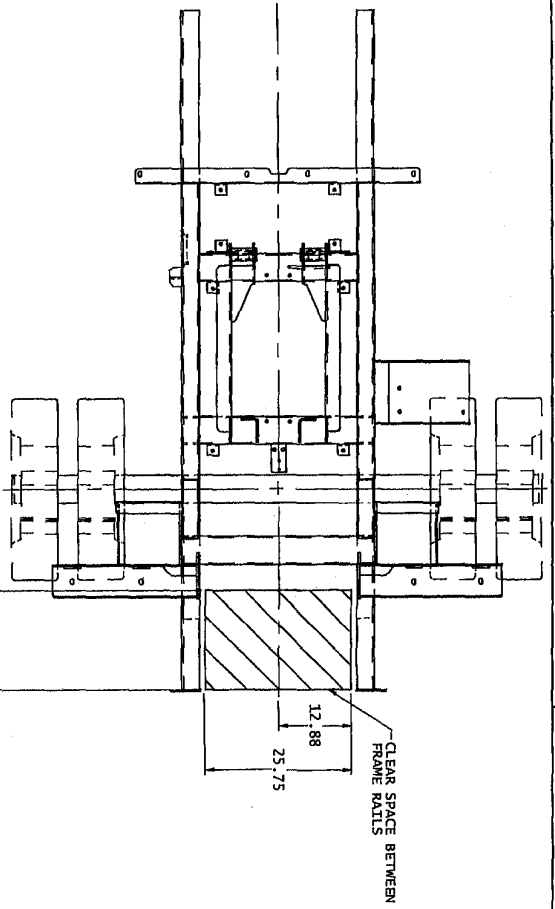
Part Number 5-376-000093
Rev. 1

TABLE OF CONTENTS

- | | |
|-------------------------------------------------------|--|
| 1. Subframe Installation | |
| 2. Subframe Assembly Kit | |
| a. Ford – 17,500 GVWR | |
| b. Ford – 19,000 GVWR | |
| c. Chevy – C3500 | |
| 3. Hydraulic Tank Installation | |
| 4. Underlift Boom Installation | |
| 5. Wrecker Boom Installation | |
| 6. Supply-Pressure-Return Installation | |
| a. Ford – 60" C.A. | |
| b. Ford – 84" C.A. | |
| 7. Hydraulic Lines & Fittings Installation | |
| a. Dual Winches | |
| b. Single Winch | |
| 8. Body Installation | |
| 9. Manual Controls Installation | |
| 10. Electrical Controls Installation | |
| 11. Winch Installation | |
| a. Dual Winches | |
| b. Single Winch | |
| 12. Winch Cable Installation | |
| 13. Underlift Installation | |
| a. Underlift w/ Fixed Grid | |
| b. Underlift w/ Manual L-Arm Grid | |
| 14. Wheelgrid Installation | |
| a. Fixed Grid | |
| b. Manual L-Arm Grid | |
| c. Manual T-37 Pivoting Grid | |
| 15. Wheelgrid Hydraulic Lines & Fittings Installation | |
| 16. Light Pylon Installation | |
| a. 37" Light Pylon | |
| b. 28.31" Light Pylon | |
| 17. Decal Installation | |
| 18. Body Lights & Wiring Installation | |
| 19. Pylon Lights Installation | |
| 20. Fender Flare Installation | |
| a. Narrow | |
| b. Wide | |
| 21. Pylon Wiring Installation | |
| a. 60" C.A. Body | |
| b. 84" C.A. Body | |
| 22. Mud Flap Installation | |
| 23. Identification 3 Light Bar Installation | |
| 24. Tow Ball Bracket Installation | |
| 25. Cable Tensioner | |
| 26. Tunnel Toolbox Installation | |
| 27. Switch Panel Installation | |
| a. 3 Function Underdash | |
| b. 5 Function Underdash | |
| c. 5 Function Indash – Ford | |
| d. 6 Function Indash – Ford | |
| e. No Switch Panel | |
| f. 4 Function Indash – Ford OEM | |
| g. 6 Function Indash – Ford OEM | |
| 28. Emergency Light Bar Installation | |
| a. 60" Federal Signal Halogen | |
| b. 60" Federal Signal Strobe | |
| 29. Tow Sling Installation | |
| a. Single Line Boom | |
| b. Dual Line Boom | |
| 30. Tow Dolly Installation | |
| 31. Miscellaneous Lighting | |
| a. Pylon Work Lights | |
| 32. Miscellaneous Accessories | |

SUBFRAME INSTALL MPL40

DWG NO. 2-509-700043 01 REV



<p>GENERAL NOTES:</p> <p>1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.</p> <p>2. DIMENSIONS TO CENTER UNLESS OTHERWISE SPECIFIED.</p> <p>3. DIMENSIONS TO SURFACE UNLESS OTHERWISE SPECIFIED.</p> <p>4. DIMENSIONS TO FACE UNLESS OTHERWISE SPECIFIED.</p> <p>5. DIMENSIONS TO CENTERLINE UNLESS OTHERWISE SPECIFIED.</p> <p>6. DIMENSIONS TO OUTSIDE UNLESS OTHERWISE SPECIFIED.</p> <p>7. DIMENSIONS TO INSIDE UNLESS OTHERWISE SPECIFIED.</p> <p>8. DIMENSIONS TO CENTERLINE UNLESS OTHERWISE SPECIFIED.</p> <p>9. DIMENSIONS TO SURFACE UNLESS OTHERWISE SPECIFIED.</p> <p>10. DIMENSIONS TO FACE UNLESS OTHERWISE SPECIFIED.</p> <p>11. DIMENSIONS TO CENTERLINE UNLESS OTHERWISE SPECIFIED.</p> <p>12. DIMENSIONS TO OUTSIDE UNLESS OTHERWISE SPECIFIED.</p> <p>13. DIMENSIONS TO INSIDE UNLESS OTHERWISE SPECIFIED.</p>	
<p>DATE: 1/27/03</p> <p>BY: [Signature]</p> <p>APP: [Signature]</p> <p>REV: 1.00</p> <p>REV: 1.01</p> <p>REV: 1.02</p> <p>REV: 1.03</p> <p>REV: 1.04</p> <p>REV: 1.05</p> <p>REV: 1.06</p> <p>REV: 1.07</p> <p>REV: 1.08</p> <p>REV: 1.09</p> <p>REV: 1.10</p> <p>REV: 1.11</p> <p>REV: 1.12</p> <p>REV: 1.13</p> <p>REV: 1.14</p> <p>REV: 1.15</p> <p>REV: 1.16</p> <p>REV: 1.17</p> <p>REV: 1.18</p> <p>REV: 1.19</p> <p>REV: 1.20</p>	<p>DATE: 1/27/03</p> <p>BY: [Signature]</p> <p>APP: [Signature]</p> <p>REV: 1.00</p> <p>REV: 1.01</p> <p>REV: 1.02</p> <p>REV: 1.03</p> <p>REV: 1.04</p> <p>REV: 1.05</p> <p>REV: 1.06</p> <p>REV: 1.07</p> <p>REV: 1.08</p> <p>REV: 1.09</p> <p>REV: 1.10</p> <p>REV: 1.11</p> <p>REV: 1.12</p> <p>REV: 1.13</p> <p>REV: 1.14</p> <p>REV: 1.15</p> <p>REV: 1.16</p> <p>REV: 1.17</p> <p>REV: 1.18</p> <p>REV: 1.19</p> <p>REV: 1.20</p>



** Report Excludes Shrinkage.

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

Effective as of 07/11/05

Item: 3577000102

KIT SUBFRAME ASSY MPL40

Reference: D/3774A

From Item: 3577000102
 TO Item: 3577000102
 Last Changed Date:

Quantity 1

Receive into Whse: WYPT

Revision #070
 BIN: WA04

UOM: PC

Seq	Ball	Dr	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		-
2	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		-
4	04	N	7660182601	P	000105 X01	LOCKNUT .50"-13NC GR5 HEC NYLOC	12.000	PC		-

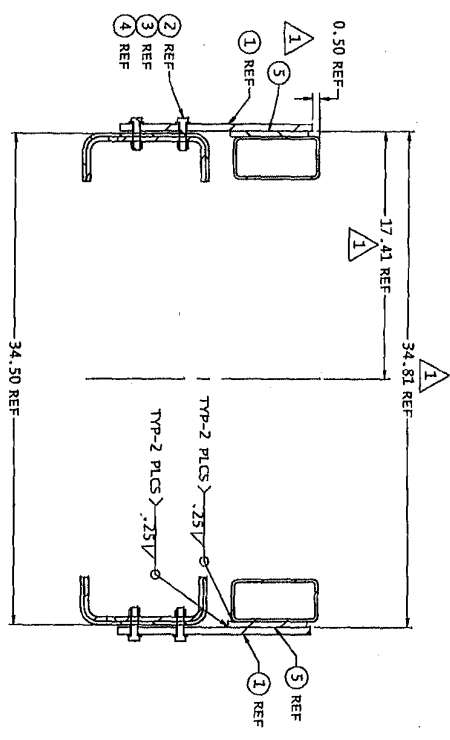
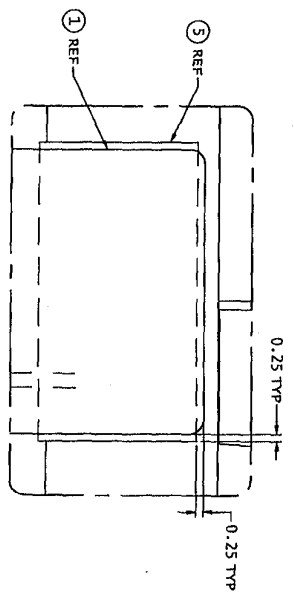
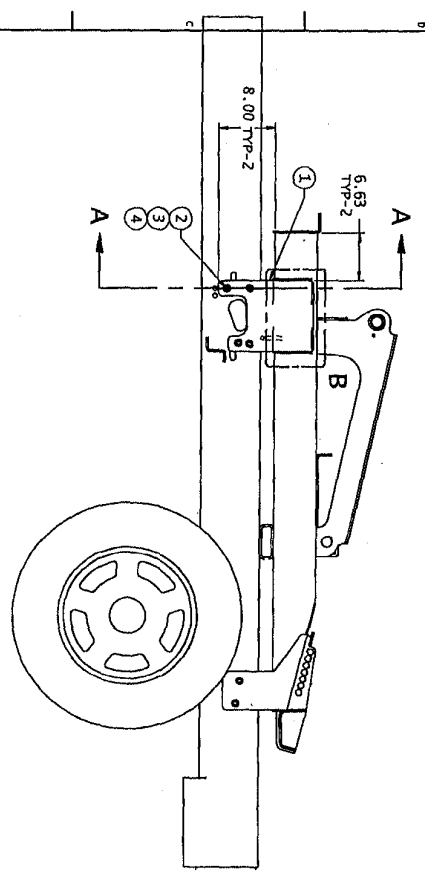
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*** End of Report ***

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

KIT SUBFRAME INSTALL MPL40 FORD 19,000#

REV NO 3-577-000103 01

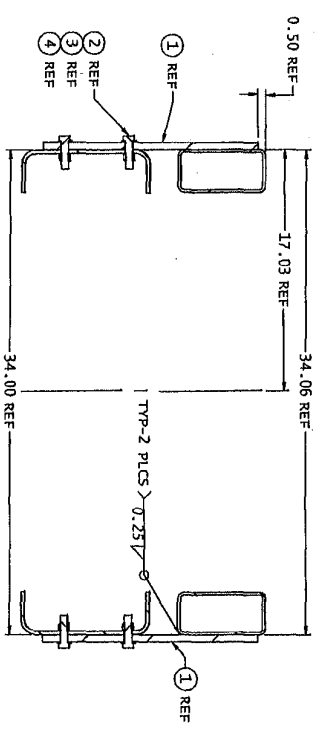
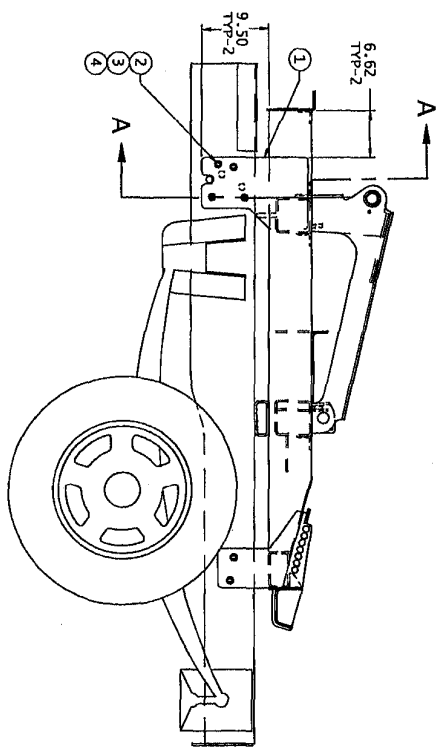


KIT SUBFRAME INSTALL MPL40 FORD 19,000# PART 1 OF 2 DATE 07/13/03		REV 1 DATE 07/13/03
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KIT SUBFRAME INSTALL MPL40 FORD 19,000# PART 4 OF 2 DATE 07/13/03		REV 4 DATE 07/13/03
KIT SUBFRAME INSTALL MPL40 FORD 19,000# PART 5 OF 2 DATE 07/13/03		REV 5 DATE 07/13/03

KIT SUBFRAME INSTALL MPL40 C3500

REV 3-577-000106 100

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

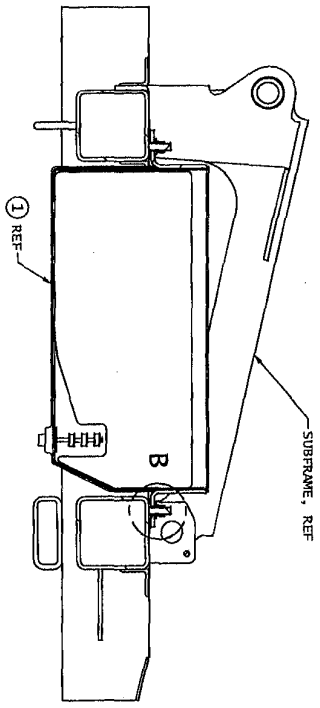
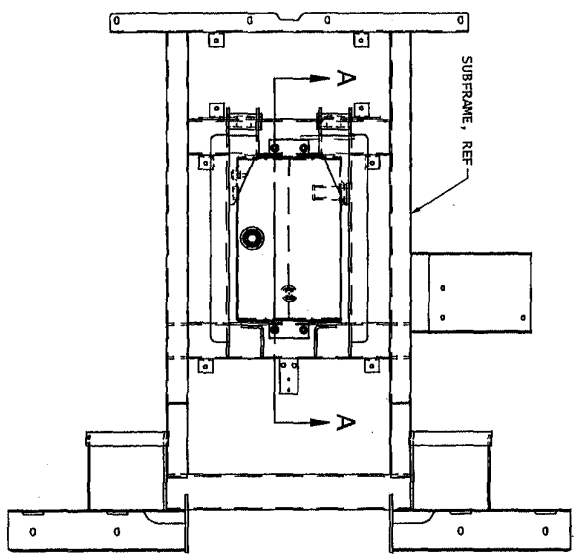


SECTION A-A
1:4

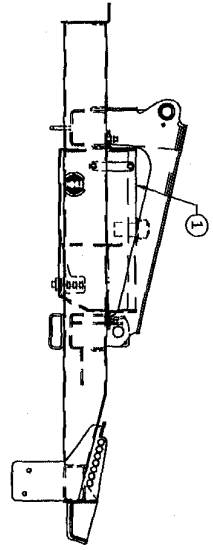
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<p>DATE: 02/27/03</p> <p>BY: 321</p> <p>CHKD: 321</p> <p>APP'D: 321</p>				
<p>DESCRIPTION: KIT SUBFRAME INSTALL MPL40 C3500</p>				

HYDRAULIC RESERVOIR INSTALL MPL

DWG NO 2-509-650041 REV 100



SECTION A-A
1:4



DETAIL B
1:1

<p>REVISIONS</p> <p>NO. DATE BY DESCRIPTION</p>			
1	10/10/00	100	REVISED TO SHOW REVISIONS TO THE ORIGINAL DRAWING.
2	10/10/00	100	REVISED TO SHOW REVISIONS TO THE ORIGINAL DRAWING.
3	10/10/00	100	REVISED TO SHOW REVISIONS TO THE ORIGINAL DRAWING.
4	10/10/00	100	REVISED TO SHOW REVISIONS TO THE ORIGINAL DRAWING.
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7	10/10/00	100	REVISED TO SHOW REVISIONS TO THE ORIGINAL DRAWING.
8	10/10/00	100	REVISED TO SHOW REVISIONS TO THE ORIGINAL DRAWING.
9	10/10/00	100	REVISED TO SHOW REVISIONS TO THE ORIGINAL DRAWING.
10	10/10/00	100	REVISED TO SHOW REVISIONS TO THE ORIGINAL DRAWING.



** Report Excludes Shrinkage.
 Effective as of 08/04/05
 Item: 3750000049

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

RESERVOIR WELD HYDRAULIC (MPL40)
 Reference: D/3774B
 Revision #07/1/3774
 From Item: 3750000049
 To Item: 3750000049
 Last Changed Date: 12/14/04

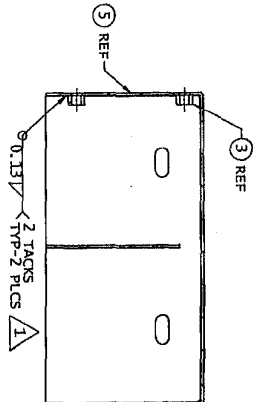
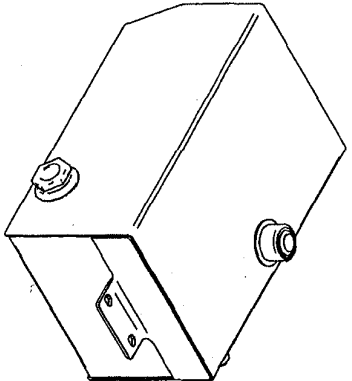
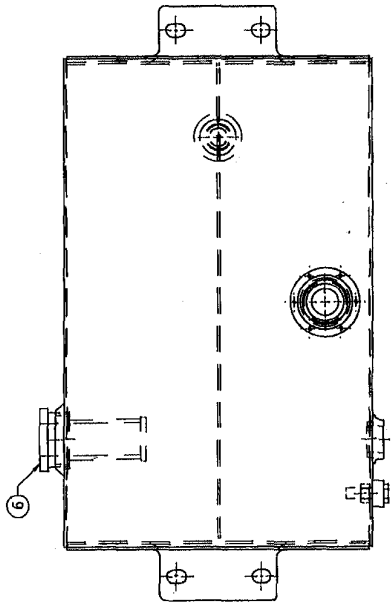
Quantity	Bin	Receive into Whse:	WYPT	BIN:	WA00	UOM:	PC
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Ball Dr	Component	Type	Location	Description	QtyPer UOM	Reference	Effectivity
01	B	4811000612	M WS03	SHEET 11GA X 14.12 X 42.00	1.000	PC	-
02	B	4017001393	M WS03	ANGLE 3.85 X 2.62 X 0.25 X 14.12	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 TME-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	-

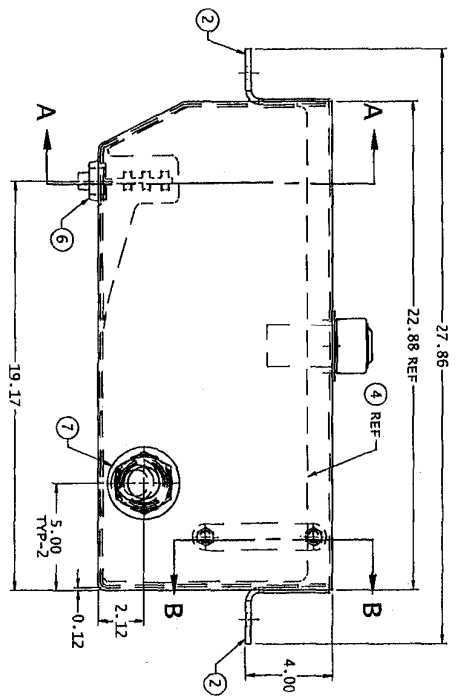
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 *** End of Report ***

RESERVOIR WELD HYDRAULIC (MPL40)

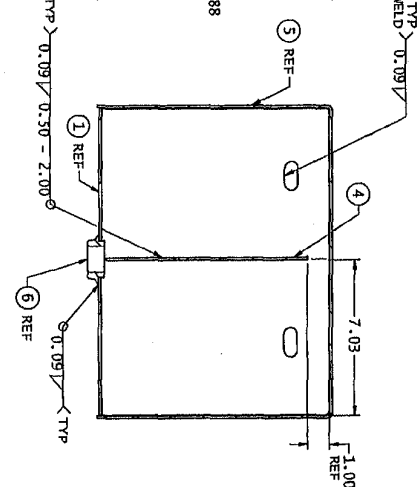
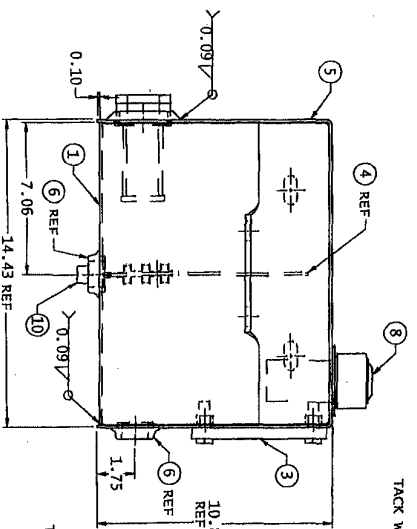
REV NO 3-750-000049101



SECTION B-B



SECTION A-A



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

DATE	REV	BY	CHKD	APP'D
02/24/05	1

ITEM	QTY	DESCRIPTION
...



** Report Excludes Shrinkage.
 Effective as of 07/12/05
 Item: 2170000069

***** Engineering Bill of Materials *****
 BOOM INST MPL-40 KNEE
 Reference: D/3774A
 Revision #A/1/3774

From Item: 2170000069
 To Item: 2170000069
 Last Changed Date: 03/22/05

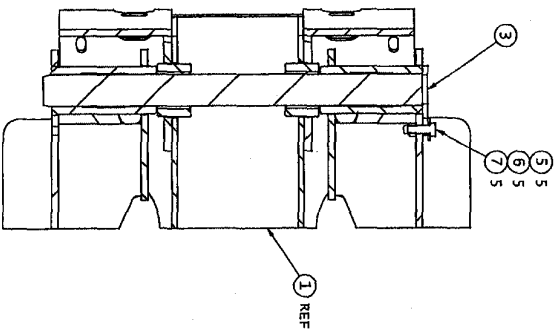
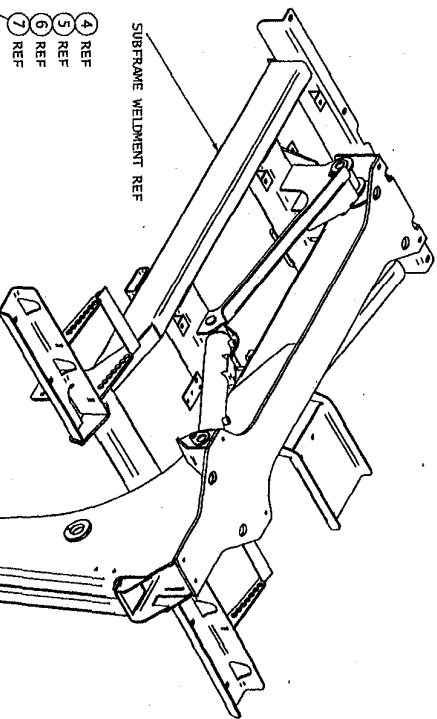
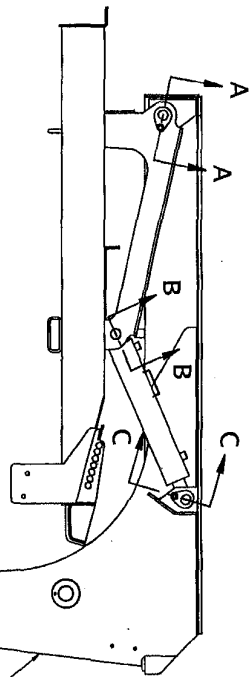
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Ball Dr	Component	Type	Location	Description	QtyPer	DOM	Reference	Effectivity
01	D	3170000369	M WA00	BOOM WELD OUTER	1.000	PC		-
02	C	3320000153	M WA00	CYLINDER ASSY 3.00/1.75 X 25.40-40.51	2.000	PC		-
03	B	3691000241	M WA00	PIN WELD 1.50 DIA X 17.62	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-05	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-

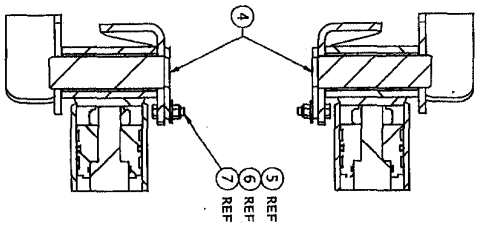
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 *** End of Report ***

BOOM INST MPL-40 KNEE

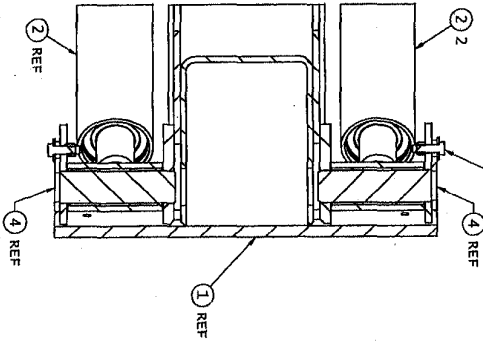
DMG NO
2-170-000069 01



SECTION A-A
VIEW SCALE: 3:8



SECTION B-B
VIEW SCALE: 3:8



SECTION C-C
VIEW SCALE: 3:8

DATE: 07/27/05
BY: [Signature]
CHECKED: [Signature]
APPROVED: [Signature]

<p>1. THIS DRAWING IS THE PROPERTY OF THE COMPANY AND 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 THE COMPANY.</p> <p>2. THE COMPANY ASSUMES NO LIABILITY FOR DAMAGES OF ANY KIND ARISING FROM THE USE OF THIS DRAWING.</p> <p>3. THE COMPANY ASSUMES NO LIABILITY FOR DAMAGES OF ANY KIND ARISING FROM THE USE OF THIS DRAWING.</p>	<p>DMG NO 2-170-000069</p>	<p>REV 01</p>
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** Report Excludes Shrinkage.
Effective as of 07/15/05
Item: 3320000153

***** Engineering Bill of Materials *****
CYLINDER ASSY 3.00/1.75 X 25.40-40.51

Reference: C/3774B
Revision #0/1/3774
From Item: 3320000153
To Item: 3320000153
Last Changed Date: 12/14/04

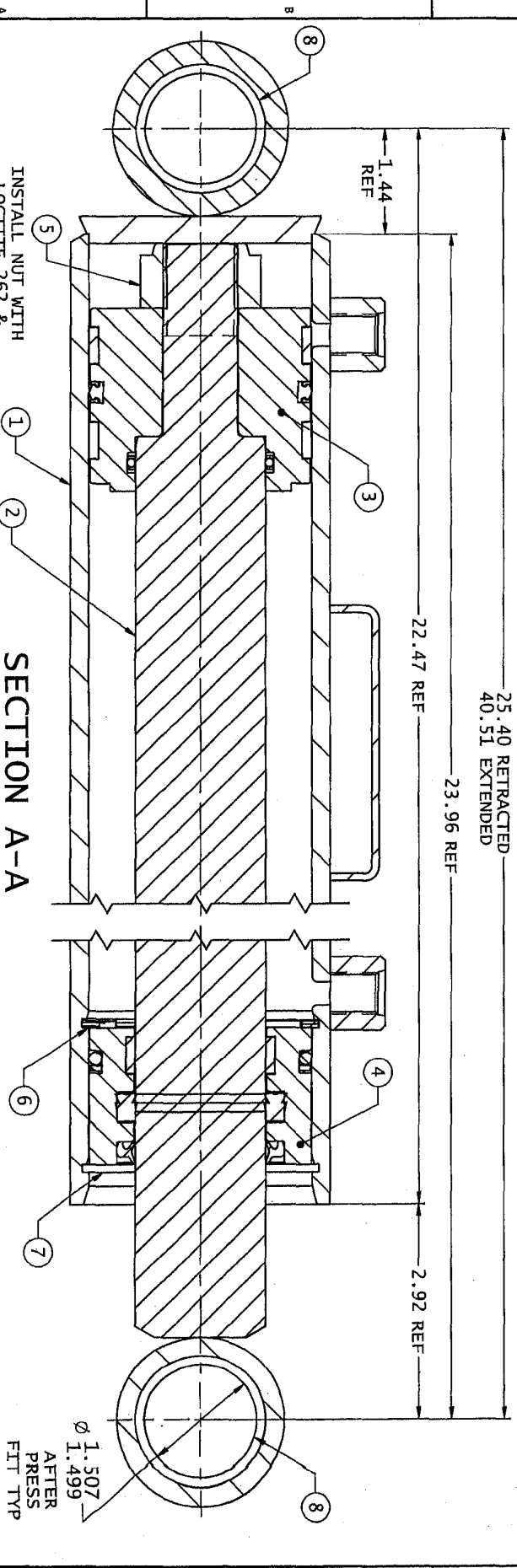
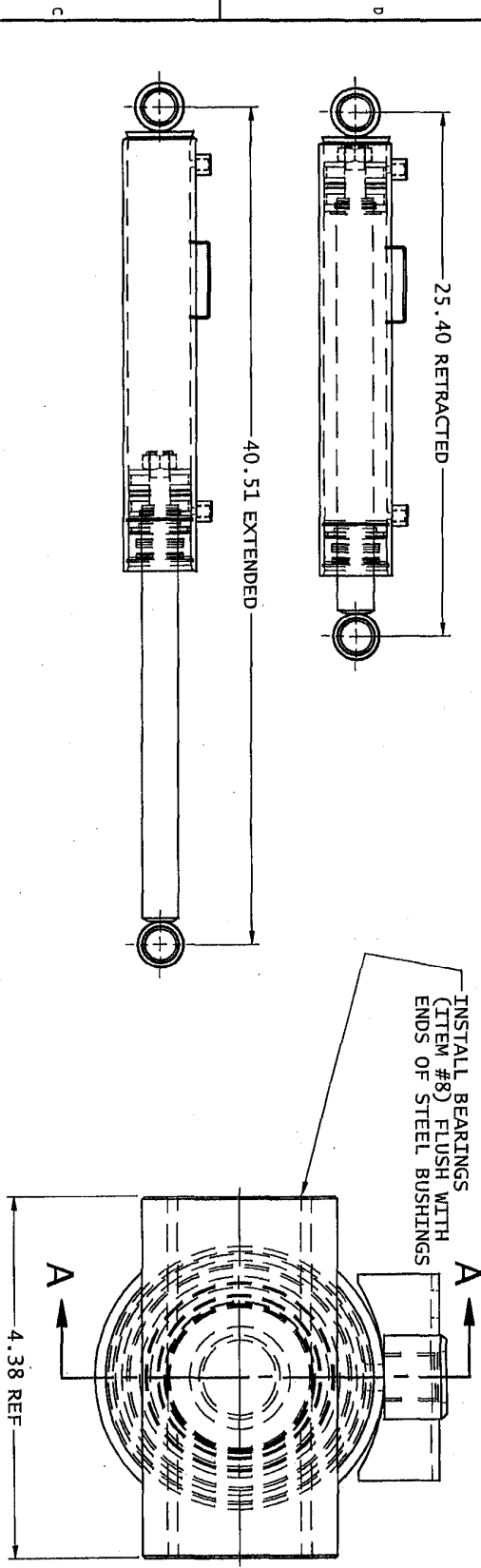
Quantity	Bin	Receive into Whse: MYPT	BIN: WA00	UOM: PC
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Ball Dr	Component Type	Location	Description	Qty per UOM	Reference	Effectivity
01	C	3071000137	M CC05 BARREL WELD "3153"	1.000	PC	-
02	C	3763000144	M CC05 ROD WELD "3151" "3153"	1.000	PC	-
03	B	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 SMALTY 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 3-320-00153 01 REV



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

SECTION A-A

NOTE:
* PLUG PORTS FOR STORAGE

PARTIAL 3/7/24 UPDATED YRNGS PER DETAIL CHANGES REVISIONS DATE BY 3/7/24 155	ASSOCIATE AND CONFIDENTIAL THIS DRAWING AND RELATED MATERIALS ARE THE PROPERTY OF JERRIDAN CORPORATION. THIS DRAWING IS TO BE USED ONLY FOR THE PROJECT 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. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FOR THE PROPOSED CONSTRUCTION.	IF 2D PRINT ASSE. DO NOT SCALE DRAWING. REVISIONS REVISION NO. DATE BY 1 3/7/24 155	TITLE CYLINDER ASSY 3.00/1.75 X 25.40-40.51 SCALE 1:1 DATE 12/14/04 DRAWN STR CHECKED C PART NO 3-320-000153 01	JERRIDAN CORP 1000 AVENUE 3000 GERRARDT, SA, AZZS SHEET 1 OF 1 WEIGHT E 42.0# FIT TYP AFTER PRESS
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** 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

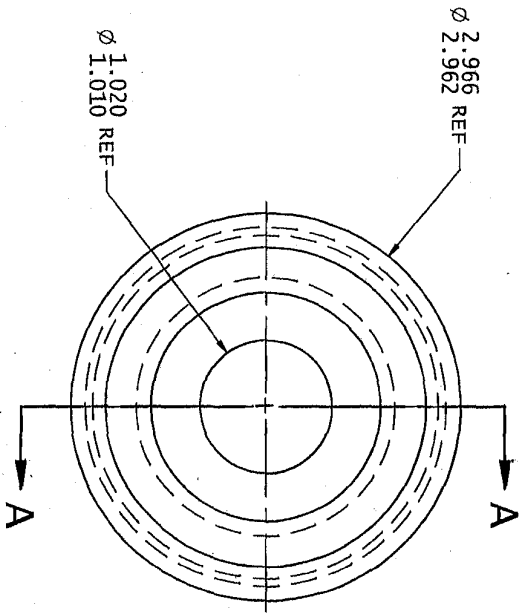
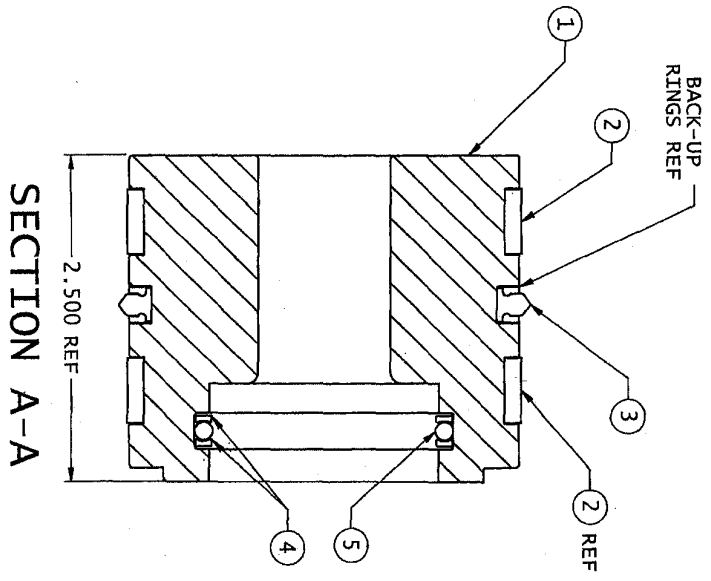
Alternate route #AZ15U15
 Quantity 1 Receive into whse: HYKS
 Revision #07/0
 BIN: UOM: PC

Seg Ball Dr	No. -oon Sz	Component Type	Bin Location	Description	QtyPer UOM	Reference	Effectivity
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	7755222409	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 3-698-0000102 REV



SECTION A-A

02/18/00	REVISION	02/18/00	DATE	BY	2
<p>DESIGNER: [Name]</p> <p>DESCRIPTION: PISTON ASSY (3.00 BORE CYLINDER)</p>					
<p>02/18/00</p> <p>DATE</p>					
<p>BY</p>					
<p>2</p>					
<p>1</p>					

JERRIDAN CORP
1800 WYOMING ROAD GREENVILLE, PA 17725

UNIT: SEE B/M
SHEET: 1 OF 1
WEIGHT: E 3.74g

THIS PISTON ASSY (3.00 BORE CYLINDER)
SCALE: 3:2
DATE: 02/02/00
3-698-000001 02

DO NOT REMOVE THIS FROM THE PISTON ASSY. REMOVE ALL RINGS AND SCRAP CHAMBERS.
THESE RINGS AND SCRAP CHAMBERS ARE THE PROPERTY OF JERRIDAN CORPORATION. THIS DRAWING IS THE PROPERTY OF JERRIDAN CORPORATION. THIS DRAWING 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 JERRIDAN CORPORATION.



***** 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

Reference: B/2962-A
Revision #0/0
From Item: 3553000011
To Item: 3553000011
Last Changed Date: 08/11/00

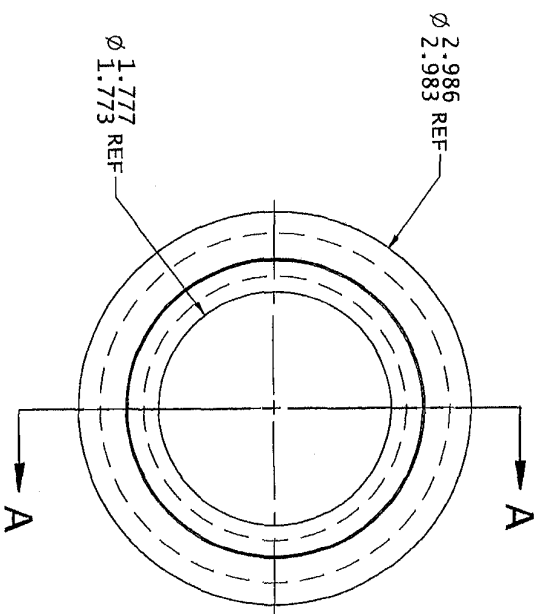
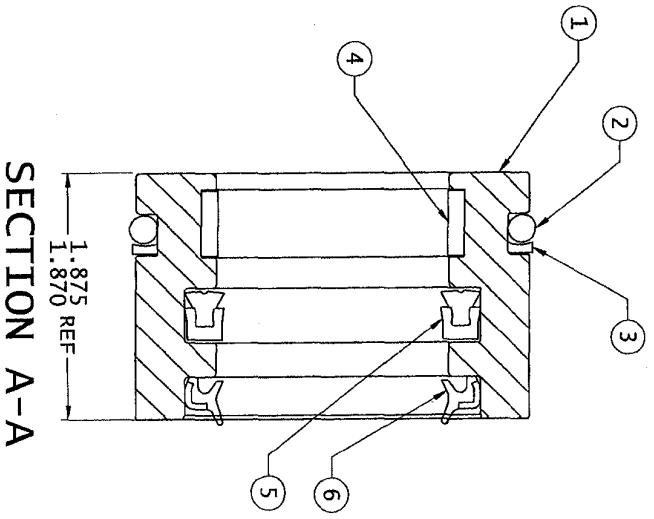
Alternate Route #A215021
Quantity 1
Receive into whse: HYKS
BIN: UOM: PC

Seq	Ball	Dr	No.	-con	Sz	Component	Type	Location	Description	QtyPer	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 ***

HEAD ASSY () BORE CYLINDER

DWG NO 3-553-001102 REV



SECTION A-A

02	ALL	3/5/00	REDSWAMP IN SOLID EDGE (30/20)	02/13/01	STV
REV	NO	DATE	DESCRIPTION	BY	CHK

<p>JERRIDAN GOULD 1000 INNES ROAD - GREENCASTLE, VA 23203</p>	
TITLE	HEAD ASSY (3.00 BORE CYLINDER)
SCALE	3:1
DATE	2/2/00
REV	1
REV	2
REV	3
REV	4
REV	5
REV	6
REV	7
REV	8
REV	9
REV	10
REV	11
REV	12
REV	13
REV	14
REV	15
REV	16
REV	17
REV	18
REV	19
REV	20
REV	21
REV	22
REV	23
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REV	32
REV	33
REV	34
REV	35
REV	36
REV	37
REV	38
REV	39
REV	40
REV	41
REV	42
REV	43
REV	44
REV	45
REV	46
REV	47
REV	48
REV	49
REV	50



** Report Excludes Shrinkage.
 Effective as of 07/12/05
 Item: 3170000371

***** Engineering Bill of Materials *****
 BOOM INSTR FLY SECTION

Reference: D/3774B
 Revision #0/0
 BIN: WA03
 DOM: PC
 Last Changed Date:

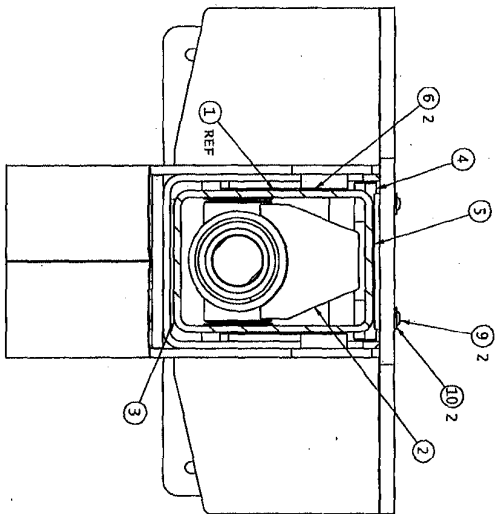
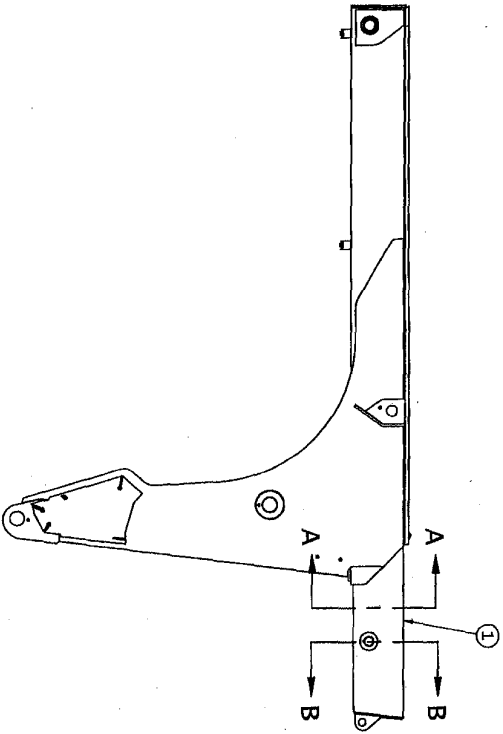
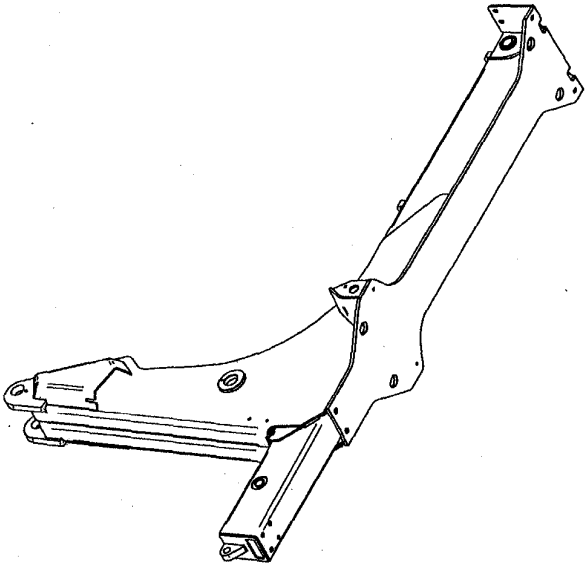
Quantity	1	Receive into whse: MYP	DOM: PC
----------	---	------------------------	---------

Ball Dr	Bin	Description	QtyPer UOM	Reference	Effectivlty
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	-

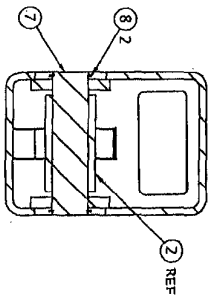
*** End of Item ***
 *** End of Report ***

BOOM INST FLY SECTION

DWG NO. 3-170-000371 00 REV



SECTION A-A
VIEW SCALE: 1:4



SECTION B-B
VIEW SCALE: 1:4

SECTION

TITLE: BOOM INST FLY SECTION DRAWING NO.: 3-170-000371 00 REV: 0		SHEET NO.: 1 OF 1
DATE: 07/24/05	DRAWN BY: [Signature]	CHECKED BY: [Signature]
APPROVED BY: [Signature]		



** Report Excludes Shrinkage.
 Effective as of 07/13/05
 Item: 3320000149
 CYLINDER ASSY 3.00/1.75 X 68.70-126.97
 Reference: C/3774B
 From Item: 3320000149
 TO Item: 3320000149
 Last Changed Date:

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

Quantity 1
 Receive into whse: MYPPT
 Revision #0/0
 BIN: WA02
 TOM: PC

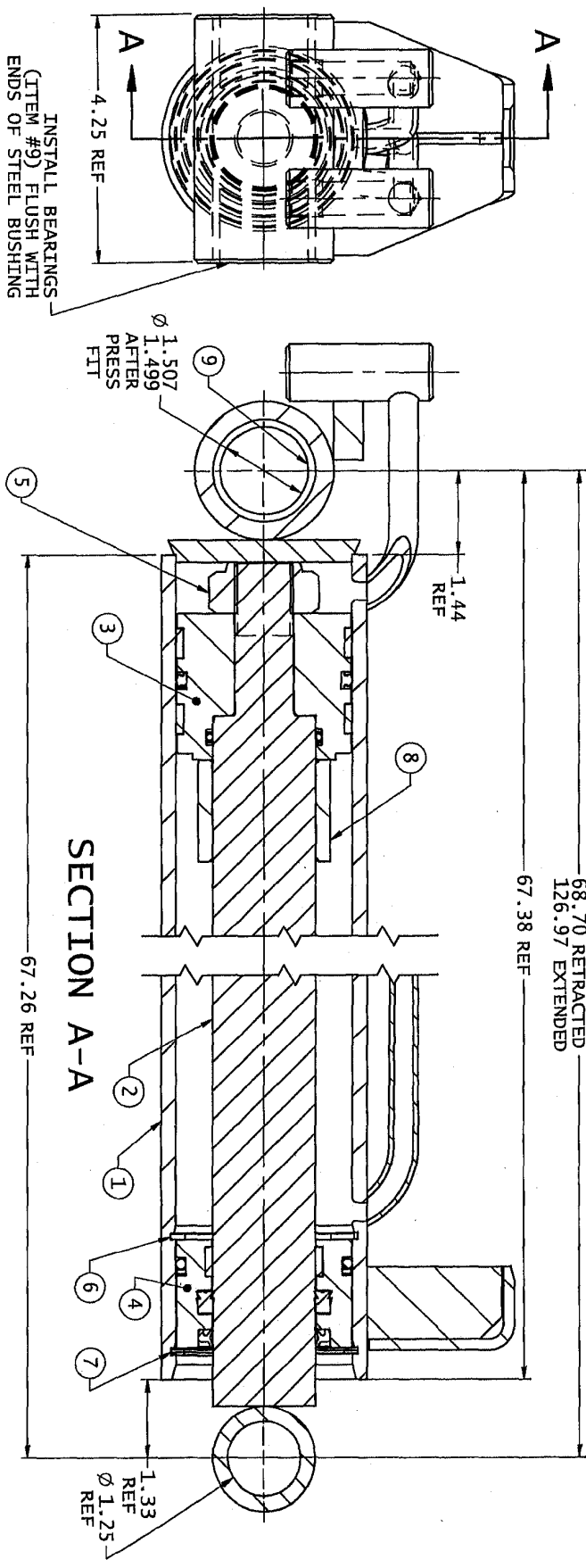
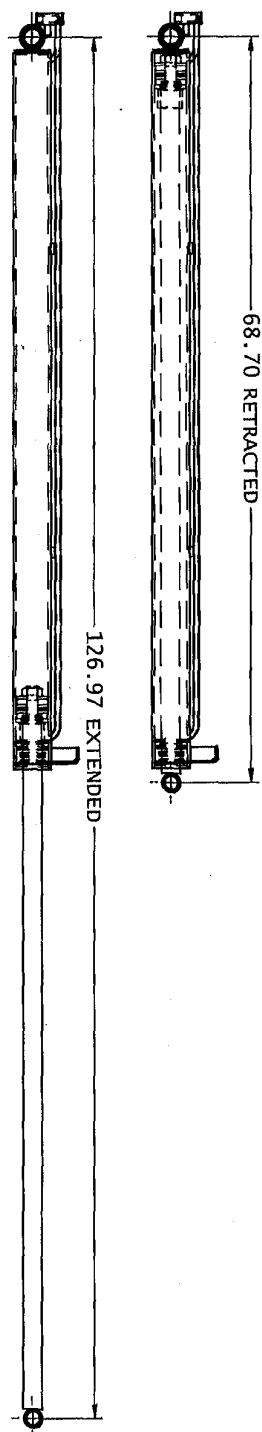
Ball Dr	Component	Type	Location	Description	QtyPer TOM	Reference	Effectivity
01	D	3071000134	M	CG05 BARREL WELD "3149"	1.000	PC	-
02	C	3763000040	M	CC05 ROD WELD 1.75 DIA "307"	1.000	PC	-
03	B	3698000001	P	PISTON ASSY 3.00 BORE X 1.75 ROD	1.000	PC	-
04	B	3553000011	P	HEAD ASSY 3.00 BORE X 1.75 ROD	1.000	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 3-320-00149 00 REV



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

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

REVIZOR	ENR	DATE	BY
3			
4			

DESCRIPTION	DATE	BY

<p>INSPECTION AND COMMENTS:</p> <p>THIS DRAWING AND SERVICE NUTTER IS THE PROPERTY OF JERRIDAN CORPORATION. THIS DRAWING IS TO BE USED ONLY FOR THE MANUFACTURE OF THE PRODUCT SPECIFIED HEREIN. IT IS TO BE RETURNED TO THE DRAWING OFFICE OF THE MANUFACTURER UPON COMPLETION OF THE WORK ORDER.</p>	<p>IF IN POINT, AND DO NOT SCALE DIMENSIONS. REMOVE ALL DIMENSIONS AND SCALE DIMENSIONS.</p>
<p>TITLE: CYLINDER ASSY 3.00/1.75 X 68.70-126.97</p> <p>SCALE: 2:1</p> <p>DATE: 09/27/04</p> <p>DRAWN BY: STK</p> <p>CHECKED BY: C-3-320-000149 00</p>	<p>JERRIDAN CORP</p> <p>3800 FINES ROAD GREENVILLE, VA 21604</p> <p>PHONE: 757-533-1100</p> <p>FAX: 757-533-1101</p> <p>WEBSITE: WWW.JERRIDAN.COM</p>



***** 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: 36980000001
 To Item: 36980000001
 Last Changed Date: 08/11/00

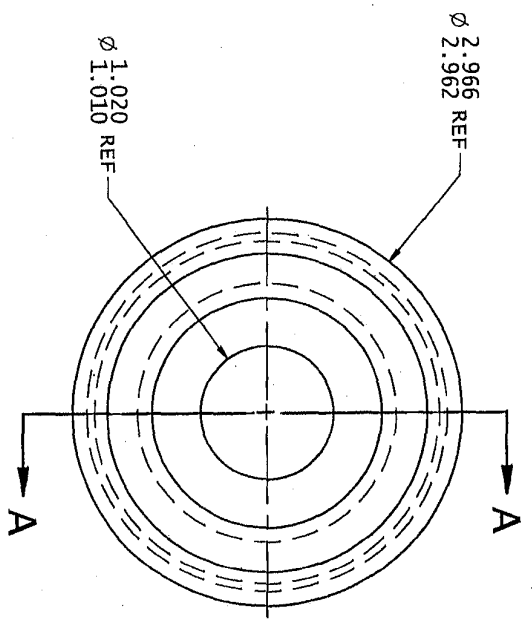
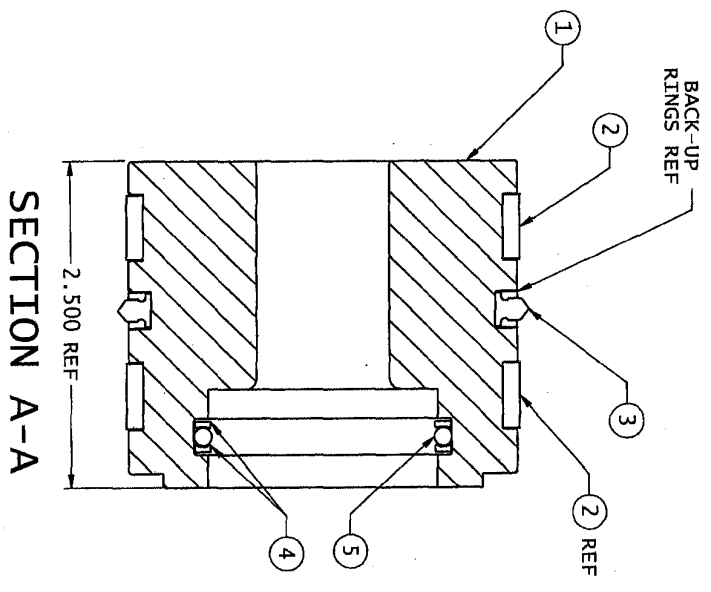
Alternate Route #AZ15015
 Quantity 1
 Receive into whse: HYKS
 Revision #0/0
 UOM: PC

Seg Ball Dr	Bin	Description	QtyPer UOM	Reference	Effectivity
No. -oon Sz Component Type Location					
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 77552224609 P		RING BACK-UP PISTON 1.75" ROD	2.000	PC	-
5 05 N 77552224000 P		RING "O" PISTON 1.75" ROD	1.000	PC	-

*** End of Item ***
 *** End of Report ***

PISTON ASSY (3.00 BORE CYLINDER)

DWG NO 3-698-00001 REV 02

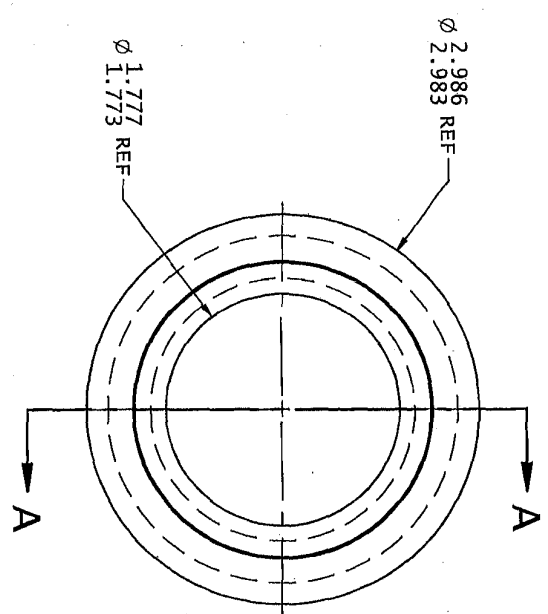
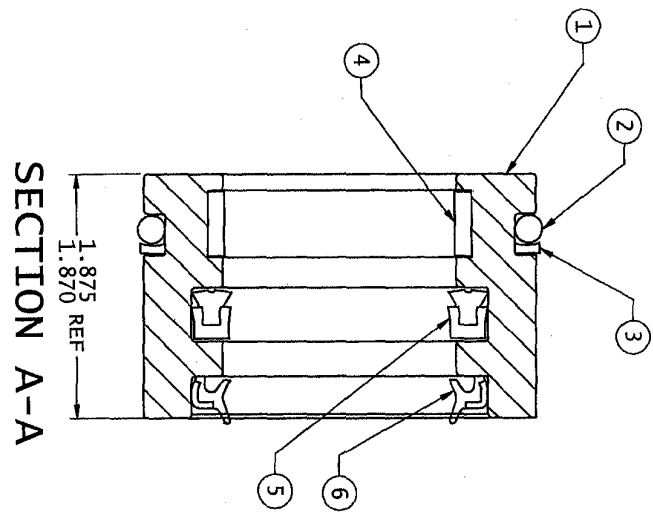


<p>INDUSTRIAL AND COMMERCIAL</p> <p>THIS DRAWING AND SPECIFIC MATTER HEREIN ARE THE PROPERTY OF JEREMY GROUP COMPANY, INC. AND SHALL REMAIN THE PROPERTY OF THE SAID COMPANY. THE INFORMATION CONTAINED HEREIN IS UNCLASSIFIED AND IS BEING RELEASED TO THE PUBLIC. ACCEPTANCE OF THIS INFORMATION IS NOT A WARRANTY OF THE INFORMATION CONTAINED HEREIN.</p>		<p>DATE: 02/07/00</p> <p>BY: [Signature]</p>	
<p>INDUSTRIAL AND COMMERCIAL</p> <p>THIS DRAWING AND SPECIFIC MATTER HEREIN ARE THE PROPERTY OF JEREMY GROUP COMPANY, INC. AND SHALL REMAIN THE PROPERTY OF THE SAID COMPANY. THE INFORMATION CONTAINED HEREIN IS UNCLASSIFIED AND IS BEING RELEASED TO THE PUBLIC. ACCEPTANCE OF THIS INFORMATION IS NOT A WARRANTY OF THE INFORMATION CONTAINED HEREIN.</p>		<p>DATE: 02/07/00</p> <p>BY: [Signature]</p>	
<p>INDUSTRIAL AND COMMERCIAL</p> <p>THIS DRAWING AND SPECIFIC MATTER HEREIN ARE THE PROPERTY OF JEREMY GROUP COMPANY, INC. AND SHALL REMAIN THE PROPERTY OF THE SAID COMPANY. THE INFORMATION CONTAINED HEREIN IS UNCLASSIFIED AND IS BEING RELEASED TO THE PUBLIC. ACCEPTANCE OF THIS INFORMATION IS NOT A WARRANTY OF THE INFORMATION CONTAINED HEREIN.</p>		<p>DATE: 02/07/00</p> <p>BY: [Signature]</p>	
<p>INDUSTRIAL AND COMMERCIAL</p> <p>THIS DRAWING AND SPECIFIC MATTER HEREIN ARE THE PROPERTY OF JEREMY GROUP COMPANY, INC. AND SHALL REMAIN THE PROPERTY OF THE SAID COMPANY. THE INFORMATION CONTAINED HEREIN IS UNCLASSIFIED AND IS BEING RELEASED TO THE PUBLIC. ACCEPTANCE OF THIS INFORMATION IS NOT A WARRANTY OF THE INFORMATION CONTAINED HEREIN.</p>		<p>DATE: 02/07/00</p> <p>BY: [Signature]</p>	
<p>INDUSTRIAL AND COMMERCIAL</p> <p>THIS DRAWING AND SPECIFIC MATTER HEREIN ARE THE PROPERTY OF JEREMY GROUP COMPANY, INC. AND SHALL REMAIN THE PROPERTY OF THE SAID COMPANY. THE INFORMATION CONTAINED HEREIN IS UNCLASSIFIED AND IS BEING RELEASED TO THE PUBLIC. ACCEPTANCE OF THIS INFORMATION IS NOT A WARRANTY OF THE INFORMATION CONTAINED HEREIN.</p>		<p>DATE: 02/07/00</p> <p>BY: [Signature]</p>	

<p>JEREMY GROUP</p> <p>3800 WYOMING ROAD, GREENSBORO, NC 27407</p>		<p>REV: 02/07/00</p> <p>REV: 02/07/00</p>	
<p>DATE: 02/07/00</p> <p>BY: [Signature]</p>		<p>DATE: 02/07/00</p> <p>BY: [Signature]</p>	
<p>DATE: 02/07/00</p> <p>BY: [Signature]</p>		<p>DATE: 02/07/00</p> <p>BY: [Signature]</p>	
<p>DATE: 02/07/00</p> <p>BY: [Signature]</p>		<p>DATE: 02/07/00</p> <p>BY: [Signature]</p>	
<p>DATE: 02/07/00</p> <p>BY: [Signature]</p>		<p>DATE: 02/07/00</p> <p>BY: [Signature]</p>	

HEAD ASSY (3.00 BORE CYLINDER)

DWG NO 3-553-00011 REV 02



REV	DATE	BY	DESCRIPTION
01	02/17/04	SKN	REWORK IN SOLID EDGE (30/20)

THIS DRAWING AND SPECIFIC PARTS ARE THE PROPERTY OF MERIDIAN CORPORATION. THIS DRAWING IS TO BE USED ONLY FOR THE MANUFACTURE OF THE PARTS SPECIFIED HEREIN. IT IS TO BE KEPT IN THE MANUFACTURING DEPARTMENT OF MERIDIAN CORPORATION, ACCEPTANCE OF THIS DRAWING BY THE PURCHASER DOES NOT CONSTITUTE AN ACCEPTANCE OF THE DRAWING OR THE MANUFACTURE THEREOF.

<p>MERIDIAN CORP</p> <p>3000 INVER ROAD BREWSTER, MA 01825</p>	
<p>DATE: 02/02/00</p> <p>SCALE: 3:2</p> <p>DRW: 2392</p> <p>FORM: VAW</p>	<p>REV: 02</p> <p>SCALE: 1 OF 1</p> <p>WEIGHT: E 1.7#</p>

JERRIDAN
An Oshkosh Truck Corporation Company
Engineering Bill of Materials ****

** Report Excludes Shrinkage.
Effective as of 08/01/05
Item: 2509530042
HOSE INSTL SPR 60 CA FORD MPL-40
Reference: X/0818/3774B
Last Changed Date:

Quantity 1
Receive into whse: MYPT
Revision #0/0
BIN: WA03
TOM: PC

Ball Dr	Component	Type	Location	Description	QtyPer UOM	Reference	Effectivity
01	N 4567130155	M	WA03	HOSE ASSY .50 X 1.55 LG ST-ST FSW JIC	1.000 PC		
02	N 4567180121	M	WA03	HOSE 1.0 X 1.21 #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	8632000000	R	e12	TRIM .25" EDGE-BLACK VINYL #1350-B-2X1/4A	.250 Ft		

*** End of Item ***
*** End of Report ***

JERI DAN
An Oshkosh Truck Corporation Company
***** Engineering Bill of Materials *****

** Report Excludes Shrinkage.
Effective as of 08/01/05
Item: 2509530060
HOSE INST SPR 84 CA FORD MPL-40
Reference: X/0818/3774B Last Changed Date: 04/01/05

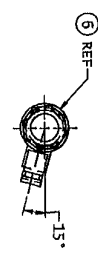
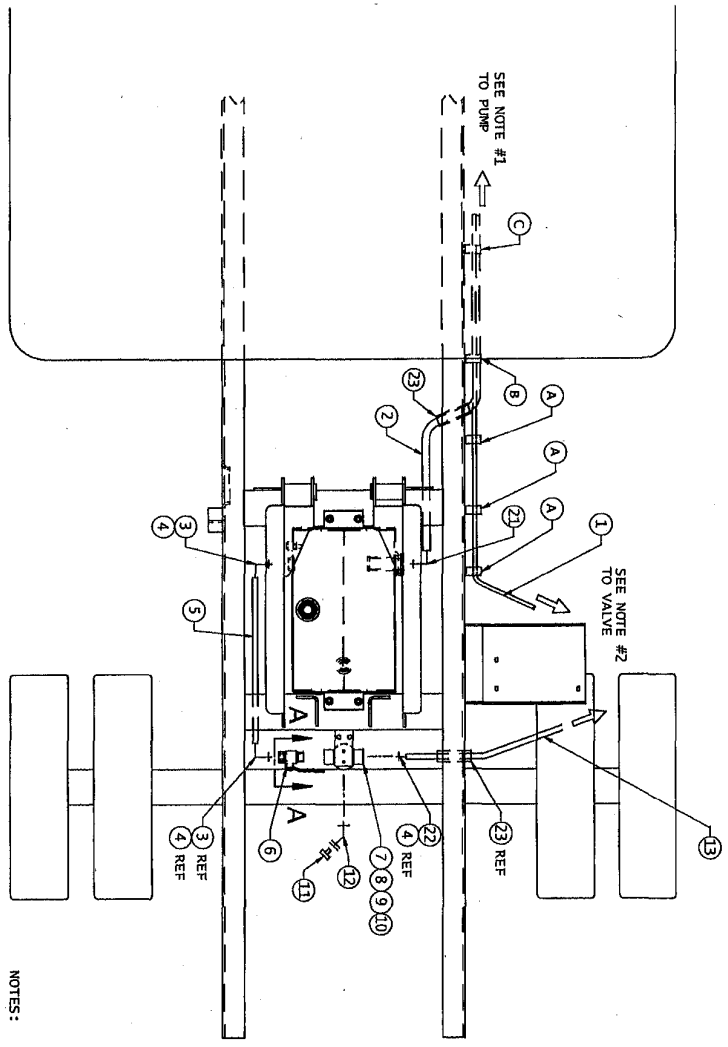
Revision #0/0
Receive into Whse: MYPT
BIN: WA03
TOM: PC

Ball Dr	Component	Type	Location	Description	QtyPer TOM	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	74430000319	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	N	8632000002	R e12	TRIM .25"EDGE-BLACK VINYL #1350-B-2X1/4A	.250	ft	-

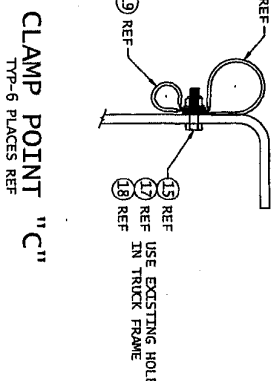
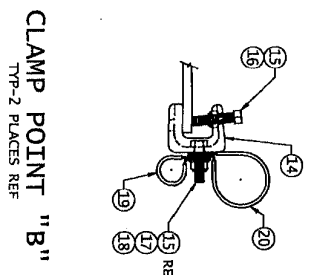
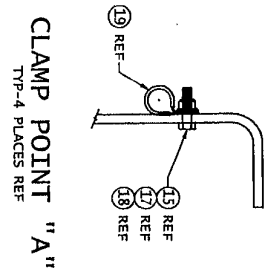
*** End of Item ***
*** End of Report ***

HOSE INSTALL SPR MPL40

DWG NO 5-264-000818 00



VIEW A-A
ROTATE DOWN TO CLEAR DECK



- NOTES:
1. SEE PUMP FITTINGS B/M FOR FITTING CALL OUT.
 2. SEE H/D SCHEMATIC FOR FITTING CALL OUT.
 3. SEE H/D FOR TORQUE SPECIFICATIONS.
 4. SEE H/D FOR ITEMS SHOULD BE LESS THAN 26" APART.
 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.

ITEM NO	QTY	DESCRIPTION	UNIT
1	1	HOSE INSTALL SPR MPL40	1 OF 1
2	1	HOSE INSTALL SPR MPL40	1 OF 1
3	1	HOSE INSTALL SPR MPL40	1 OF 1
4	1	HOSE INSTALL SPR MPL40	1 OF 1
5	1	HOSE INSTALL SPR MPL40	1 OF 1
6	1	HOSE INSTALL SPR MPL40	1 OF 1
7	1	HOSE INSTALL SPR MPL40	1 OF 1
8	1	HOSE INSTALL SPR MPL40	1 OF 1
9	1	HOSE INSTALL SPR MPL40	1 OF 1
10	1	HOSE INSTALL SPR MPL40	1 OF 1
11	1	HOSE INSTALL SPR MPL40	1 OF 1
12	1	HOSE INSTALL SPR MPL40	1 OF 1
13	1	HOSE INSTALL SPR MPL40	1 OF 1
14	1	HOSE INSTALL SPR MPL40	1 OF 1
15	1	HOSE INSTALL SPR MPL40	1 OF 1
16	1	HOSE INSTALL SPR MPL40	1 OF 1
17	1	HOSE INSTALL SPR MPL40	1 OF 1
18	1	HOSE INSTALL SPR MPL40	1 OF 1
19	1	HOSE INSTALL SPR MPL40	1 OF 1
20	1	HOSE INSTALL SPR MPL40	1 OF 1
21	1	HOSE INSTALL SPR MPL40	1 OF 1
22	1	HOSE INSTALL SPR MPL40	1 OF 1
23	1	HOSE INSTALL SPR MPL40	1 OF 1
24	1	HOSE INSTALL SPR MPL40	1 OF 1



An Oshkosh Truck Corporation Company

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

** Report Excludes Shrinkage.
Effective as of 07/14/05
Item: 3509530093

From Item: 3509530093
To Item: 3509530093

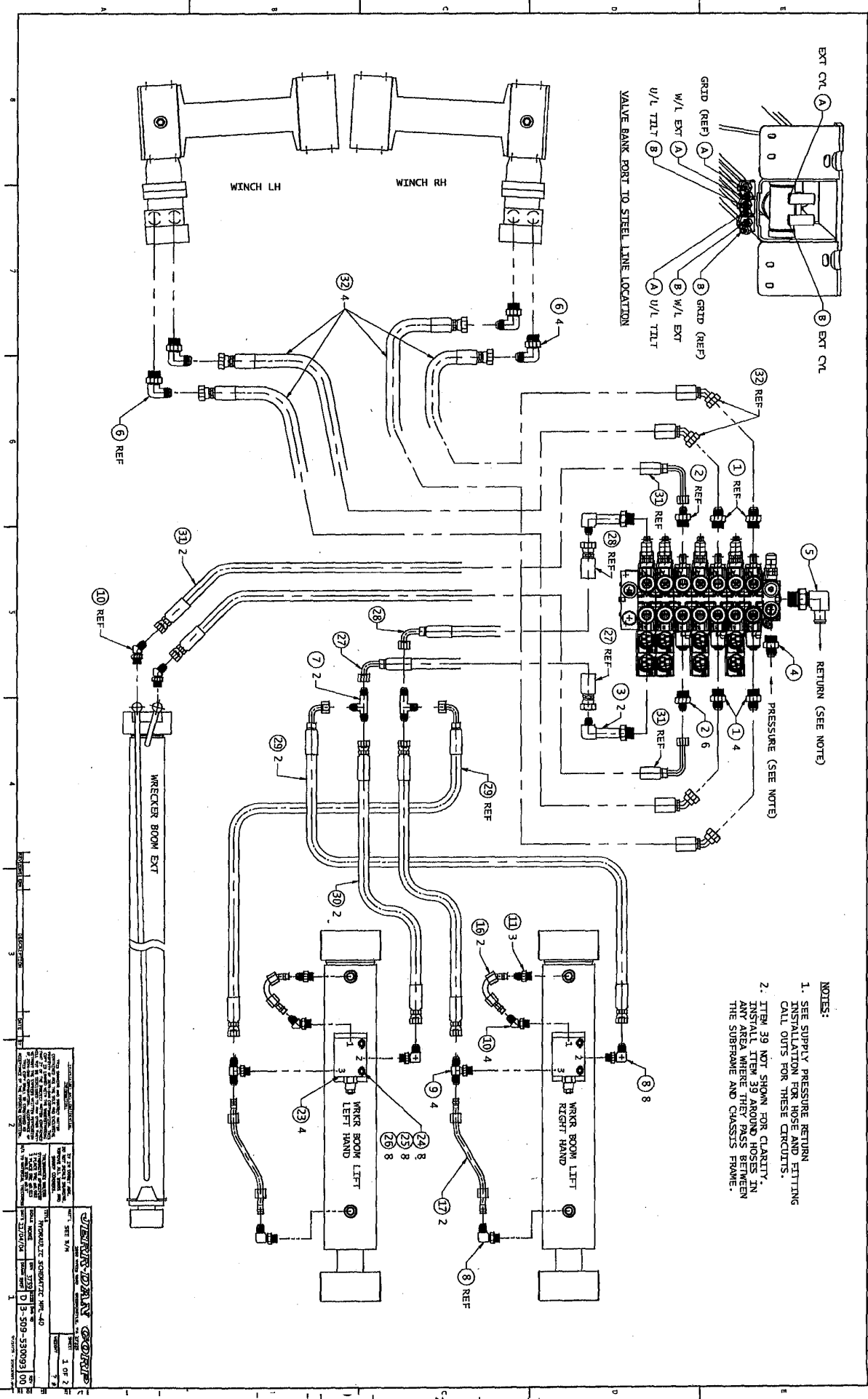
HLF MPL-40 DUAL WINCH

Reference: D/3774B Last Changed Date: 07/01/05

Quantity	1	Receive into Whse: MYPT	Revision #A/U	UOM: PC	
Bin	WA03	BIN:	WA03	UOM: PC	
Ball Dr					
-oon Sz	Component Type	Location	Description	QtyPer UOM Reference Effectivity	
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-05 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	M HOSE ASSY .38 X 24 ST-90 FSW JIC <OBS>	1.000 PC	-
29	N 4567122023	M	M HOSE ASSY .38 X 23.00 ST-90 FSW JIC	2.000 PC	-
30	N 4567120016	M	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	-

HYDRAULIC SCHEMATIC MPL-40

REV 3-509-530093 100

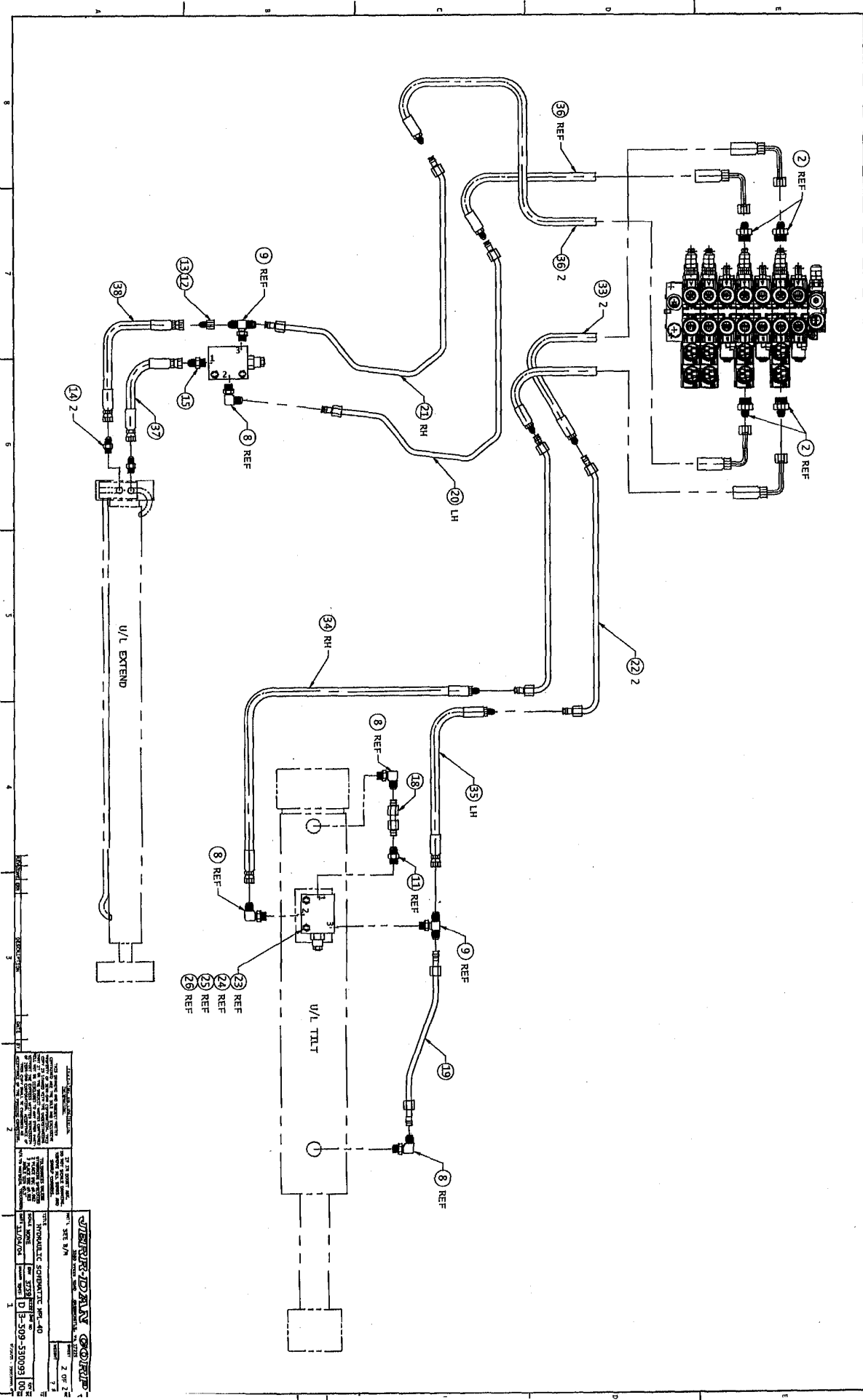


- NOTES:**
1. SEE SUPPLY PRESSURE RETURN FITTING INSTALLATION FOR HOSE AND FITTING CALL OUTS FOR THESE CIRCUITS.
 2. ITEM 39 NOT SHOWN FOR CLARITY. INSTALL ITEM 39 AROUND HOSES IN ANY AREA WHERE THEY PASS BETWEEN THE SUBFRAME AND CHASSIS FRAME.

HYDRAULIC SCHEMATIC MPL-40 SHEET 1 OF 2 DATE 10/10/00	
DRAWN BY: [Name] CHECKED BY: [Name] APPROVED BY: [Name]	PART NO.: 3-509-530093 REV: 100
MANUFACTURED BY: [Company Name] 10000 [Address] [City, State, Zip]	TEL: [Phone Number] FAX: [Phone Number]

HYDRAULIC SCHEMATIC MPL-40

REV 1
 3-509-530093 00



WILSON-JORDAN GROUP 1000 WILSON DRIVE, SUITE 100 WILSON, N.C. 27157 TEL: 704/371-1000 FAX: 704/371-1001 WWW: WWW.WILSON-JORDAN.COM	
PART NO. 3-509-530093 REV. 1 DATE 03/03/03	DRAWING NO. 3-509-530093 00 REV. 1 DATE 03/03/03
TITLE: HYDRAULIC SCHEMATIC MPL-40 DESIGNED BY: [REDACTED] CHECKED BY: [REDACTED] APPROVED BY: [REDACTED]	SHEET NO. 2 OF 2 TOTAL SHEETS 2



** Report Excludes Shrinkage.
 Effective as of 07/15/05
 Item: 3509530107

**** Engineering Bill of Materials ****
 HLF MPL-40 SINGLE WINCH

Reference: D/3774B

From Item: 3509530107
 To Item: 3509530107
 Last Changed Date: 07/01/05

Quantity	1	Receive into Whse:	MYPT	Revision #A/U	WA02	UOM:	PC
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Ball Dr	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	N	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	N	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	7912000024	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		



** Report Excludes Shrinkage.

Effective as of 07/15/05

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

Item: 3509530107

HLF MPL-40 SINGLE WINCH

Reference:D/3774B

From Item: 3509530107
To Item: 3509530107

Last Changed Date:07/01/05

Quantity 1 Receive into whse: MYP1 BIN: WA02 DOM: PC

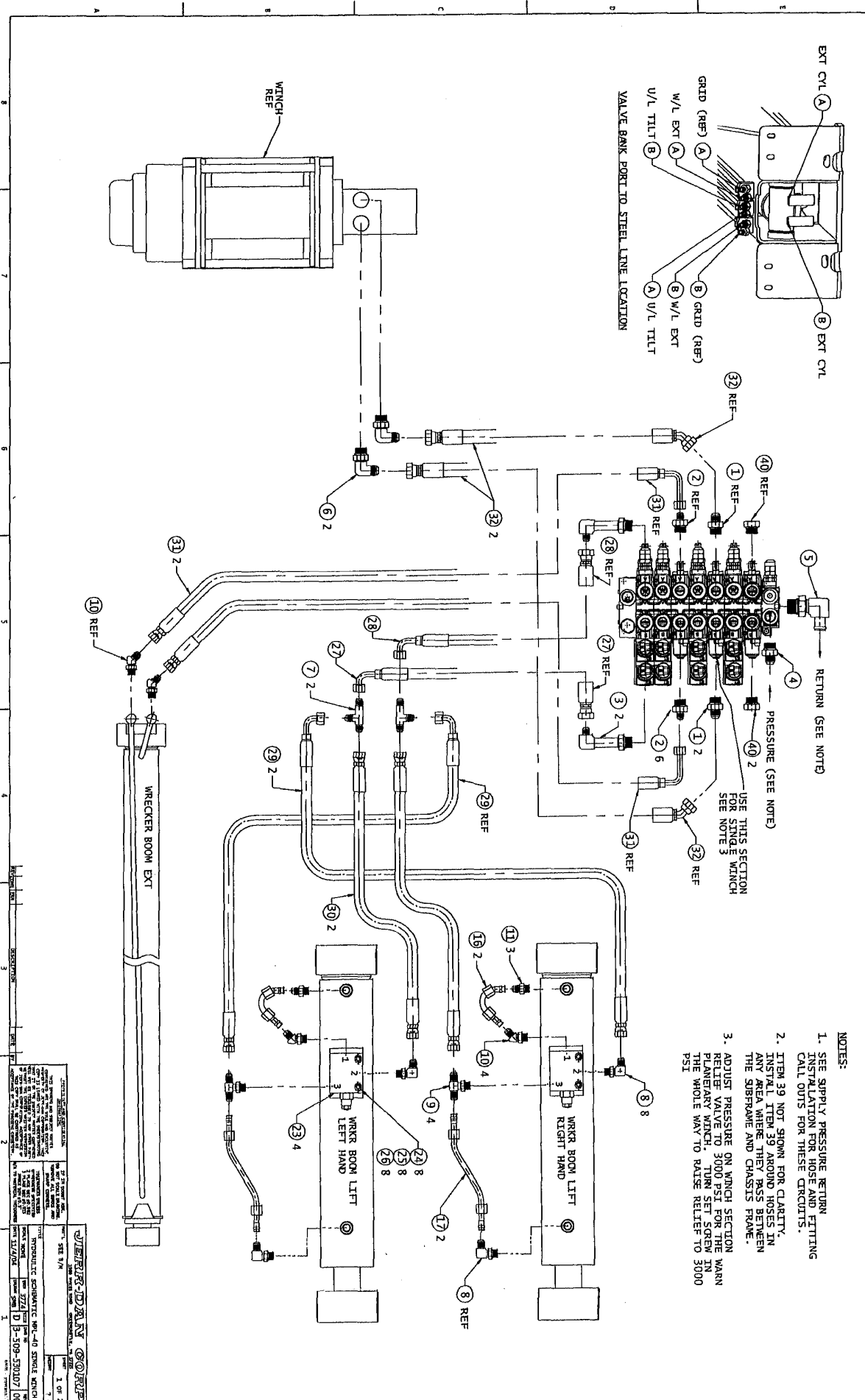
Ball Dr Bin

oon Sz	Component	Type	Location	Description	QtyPer UOM	Reference	Effectivity
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	HOSE ASSY .25 x 24.00 STR-STR FSWJIC	1.000	PC	-
38	N 4567110025	M	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	74430000048	P	b01 b13	FITTING PLUG #8"O" (M)	2.000	pc	-

*** End of Item ***

*** End of Report ***

HYDRAULIC SCHEMATIC MPL-40 SINGLE WINCH PAGE NO. 3-509-530107 00

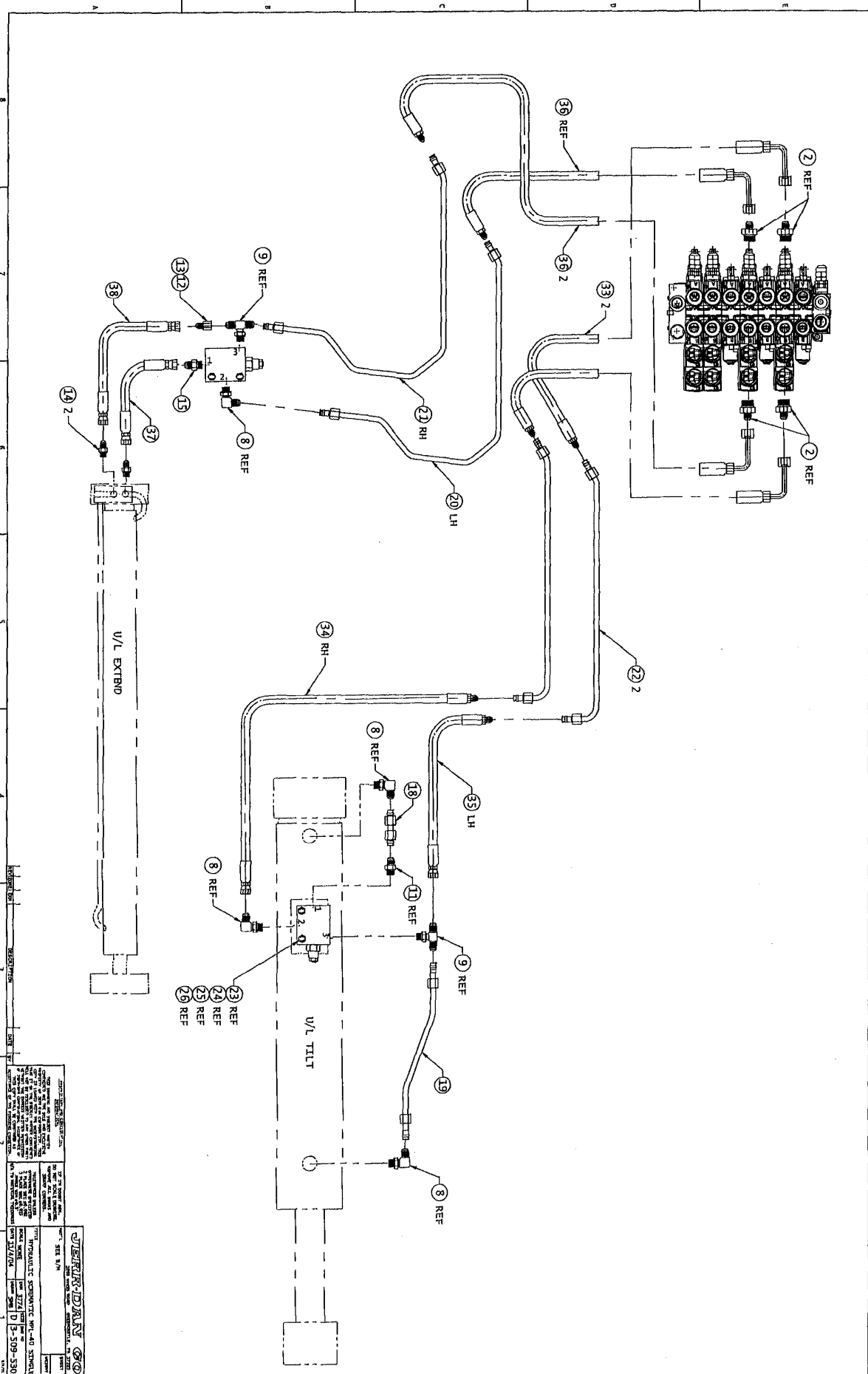


- NOTES:
1. SEE SUPPLY PRESSURE RETURN INSTALLATION FOR HOSE AND FITTING CALL OUTS FOR THESE CIRCUITS.
 2. ITEM 39 NOT SHOWN FOR CLARITY. INSTALL ITEM 39 AROUND HOSES IN ANY AREA WHERE THEY PASS BETWEEN THE SUBFRAME AND CHASSIS FRAME.
 3. ADJUST PRESSURE ON WINCH SECTION RELIEF VALVE TO 3000 PSI FOR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

HYDRAULIC SCHEMATIC MPL-40 SINGLE WINCH PART NO. 3-509-530107 00 REV. 1	
DATE: 11/9/04 BY: JLD/04	CHECKED: JLD/04 DATE: 11/9/04
APPROVED: [Signature] TITLE: [Title]	

HYDRAULIC SCHEMATIC MPL-40 SINGLE WINCH

DMG NO 3-509-530107 00 REV



JERR-DAN COMPANY 1000 W. 10th St. Tulsa, Oklahoma 74103 Phone: (918) 438-1111 Fax: (918) 438-1112 Website: www.jerr-dan.com		2 OF 2 3-509-530107	
TITLE: HYDRAULIC SCHEMATIC DATE: 03/21/07 DRAWN BY: JMM CHECKED BY: JMM APPROVED BY: JMM		PART NO: 3-509-530107 REV: 00	



** Report Excludes Shrinkage.

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

Effective as of 08/04/05

Item: 2097000099

BODY INSTL MPL-40

Reference: D/3774D

From Item: 2097000099
To Item: 2097000099

Last Changed Date:

Quantity 1

Receive into Whse: MYPT

Revision #0/0
BIN: WA03

TOM: PC

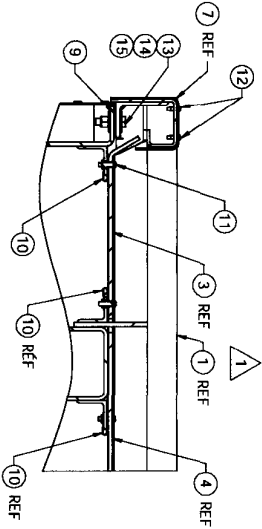
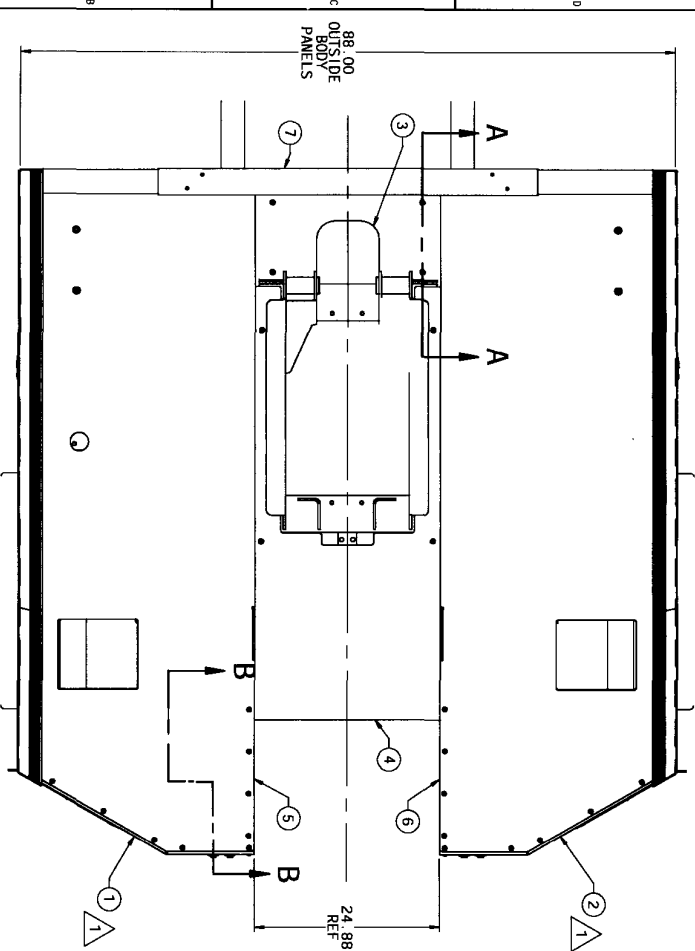
Ball Dr	Component	Type	Location	Description	QtyPer	TOM	Reference	Effectivity
01	D	3097000521	M WA03	BODY ASSY LH MPL-40	1.000	PC	-	-
02	D	3097000522	M WA03	BODY ASSY RH MPL-40	1.000	PC	-	-
03	C	4314000089	M WA03	COVERPLATE 0.19 X 14.18 X 31.00	1.000	PC	-	-
04	D	4314000090	M WA03	COVERPLATE 0.19 X 31.00 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	CAPSCREW .50"-13NC X 1.75" HEX HEAD	16.000	PC	-	-
14	N	7660182601	P	LOCKNUT .50"-13NC GR5 HEC NYLOC	16.000	PC	-	-
15	N	7950180153	P	FLATWASHER .50" NOM HARDENED	24.000	PC	-	-
16	A	7949000015	P	WASHER #J-2049-64 HEAD	8.000	PC	-	-
17	N	7114140818	P	CAPSCREW 0.25"-20 X 1.00" SS BT HD	12.000	PC	-	-
18	N	7950140143	P	FLATWASHER 0.25 NOM NARROW SS	12.000	PC	-	-
19	A	7413000002	P	NUTSERT .25"-20NC AVK INDUSTRIAL	8.000	PC	-	-
20	A	7949000056	P	WASHER NYLON 0.50 OD X 0.25 X 0.03THK	4.000	PC	-	-
21	A	7796000012	P	SEAL ADHESIVE BACK .06 THK X .75 WIDE	12.500	Ft	-	-

*** End of Item ***

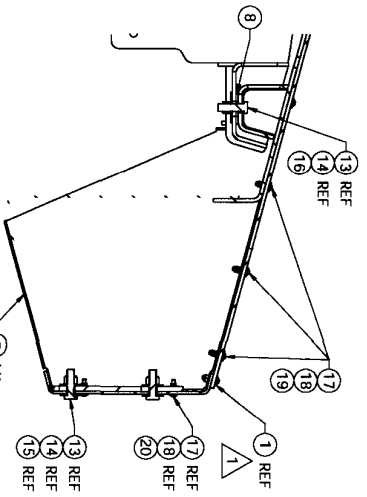
*** End of Report ***

BODY INSTALL MPL-40

DWG NO. 2-097-000099 01



SECTION A-A



SECTION B-B

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

<p>THIS DRAWING IS THE PROPERTY OF JEREMY INC. IT IS TO BE USED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. IT IS NOT TO BE REPRODUCED, COPIED, 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 JEREMY INC.</p>	
<p>DATE: 07/20/05 DRAWN BY: [Signature] CHECKED BY: [Signature] APPROVED BY: [Signature]</p>	<p>DATE: 07/20/05 DRAWN BY: [Signature] CHECKED BY: [Signature] APPROVED BY: [Signature]</p>
<p>PROJECT: [Project Name] TITLE: BODY INSTALL MPL-40 DWG NO: 2-097-000099 01</p>	<p>SCALE: 1 OF 1 SHEET: 1 OF 1</p>



** Report Excludes Shrinkage.

Effective as of 08/04/05

Item: 3097000521

BODY ASSY LH MPL-40

Reference: D/3774D

Last Changed Date:

From Item: 3097000521
To Item: 3097000521

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

Quantity	Bin	Receive into whse:	WVPT	BIN:	WA03	UOM:	PC
Revision #0/1/3774							

Ball Dr	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 TRAILPLATE 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	-



** Report Excludes Shrinkage.

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

Item: 3097000521 Effective as of 08/04/05

BODY ASSY LH MPL-40

Reference: D/3774D

From Item: 3097000521
To Item: 3097000521

Last Changed Date:

Quantity 1 Receive into Whse: MYP

Revision #0/1/3774
BIN: WA03

UOM: PC

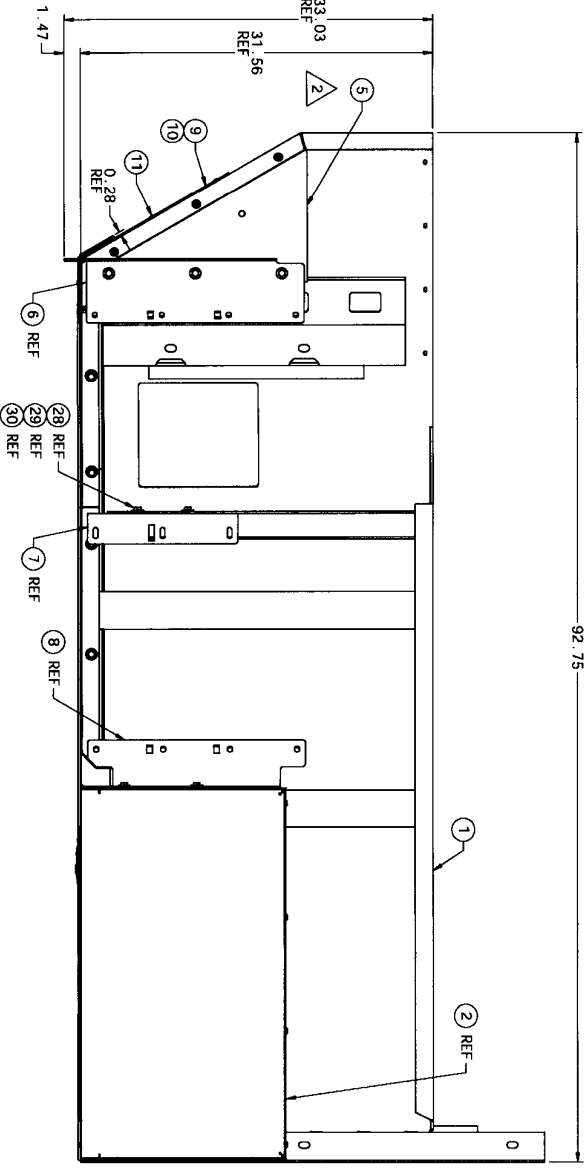
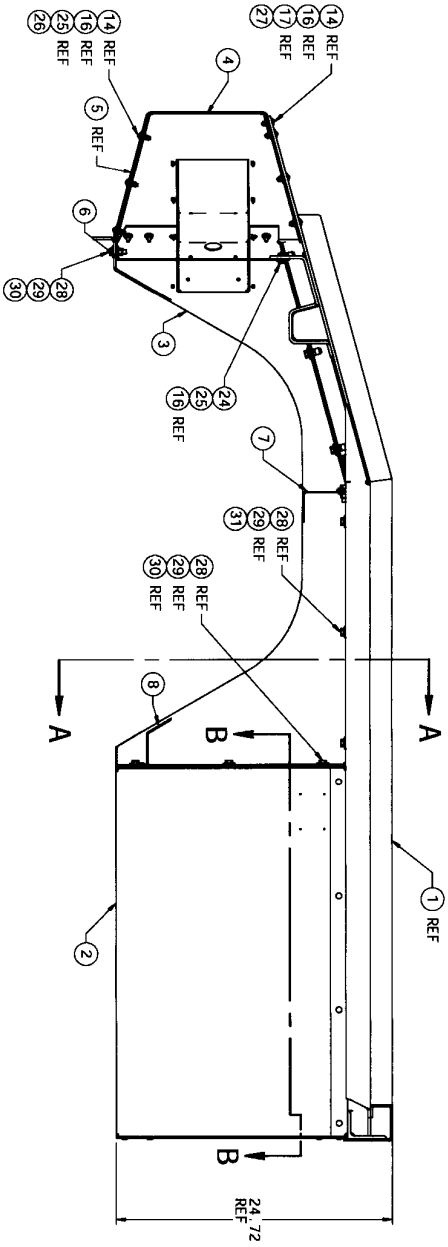
Ball Dr	Bin	Description	QtyPer UOM	Reference	Effectivity
32	A 4679000252	M WA03	PAD 0.19 x 16.25 x 32.50	1.000 PC	-

*** End of Item ***

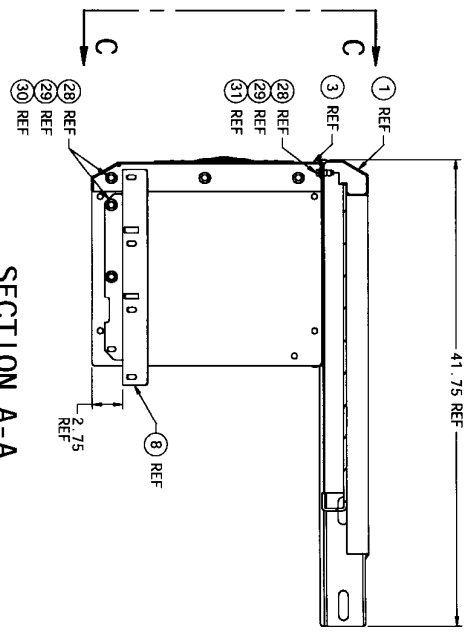
*** End of Report ***

BODY ASSY LH

DWG NO 3-097-000521 02 REV



- NOTES:
1. LOCATE SEAL (ITEM 10) BETWEEN ITEM 1 & ITEM 4.
 2. LOCATE SEAL (ITEM 3) BETWEEN ITEM 3 & ITEM 4.
 3. LOCATE SEAL (ITEM 9) BETWEEN ITEM 4 & ITEM 9 TO PREVENT PAINT DAMAGE.

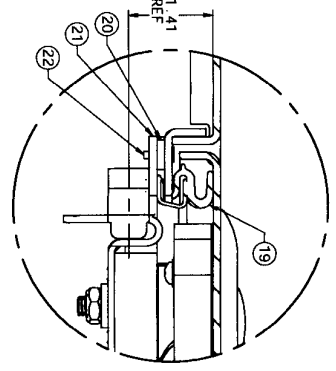


TITLE: BODY ASSY LH DATE: 1/17/2005 DRAWN: [] CHECKED: [] APPROVED: []		PART: 1 OF 2 SHEET: 7 OF 7
SCALE: 0.18 UNIT: INCHES DIMENSIONS: INCHES TOLERANCES: DECIMALS: .0005 FRACTIONS: 1/32		WEIGHT: 7.4 MATERIAL: 304 STAINLESS STEEL
REFERENCE: SEE B/W BODY ASSY LH 3-097-000521 02		PART: 1 OF 2 SHEET: 7 OF 7

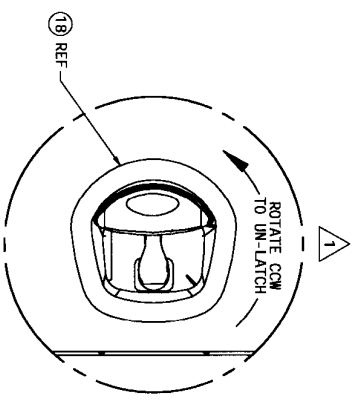
BODY ASSY LH

DWG NO
3-097-000521 02

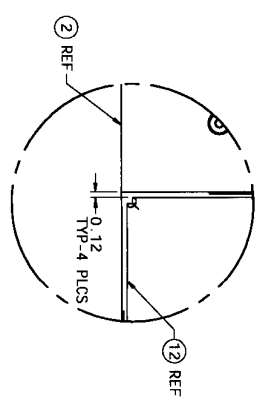
ADJUST LATCH SO THAT WHEN THE DOOR IS CLOSED IT IS FLUSH WITH THE FRONT OF TOOLBOX



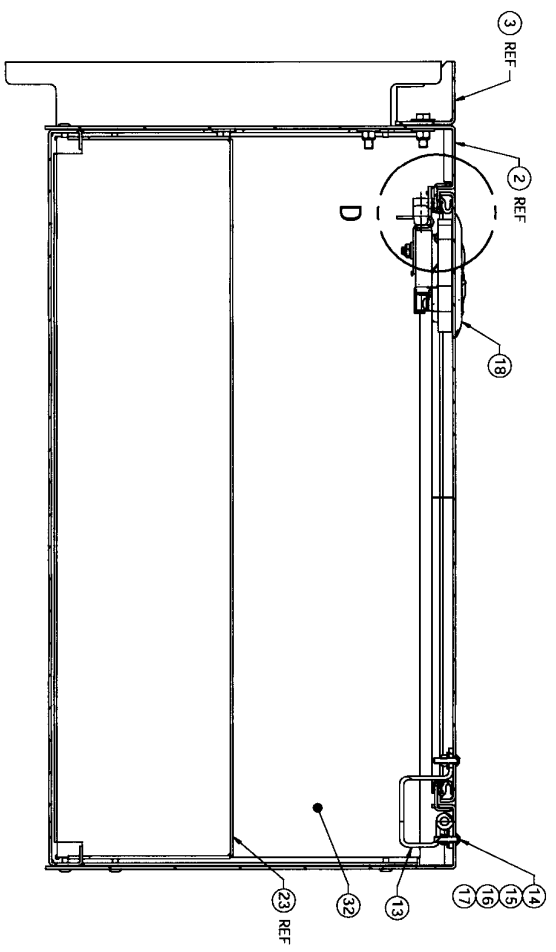
DETAIL D
 SCALE: 1.00



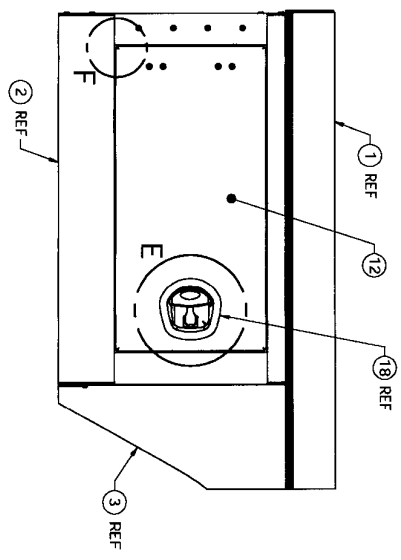
DETAIL E
 ALL HARDWARE TO INSTALL LATCH IS INCLUDED



DETAIL F
 SCALE: 1.00



SECTION B-B



SECTION C-C

REVISIONS 1 2 3		DATE 1/17/05	
DRAWN BY J. J. JONES		CHECKED BY J. J. JONES	
PART NAME BODY ASSY LH		PART NUMBER 3-097-000521	
SCALE 0.10		SHEET NO. 2 OF 2	
DWG NO. 3-097-000521		REV. 02	



** Report Excludes Shrinkage.

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

Effective as of 08/04/05
Item: 3097000522

BODY ASSY RH MPL-40

Reference: D/3774D

From Item: 3097000522
To Item: 3097000522

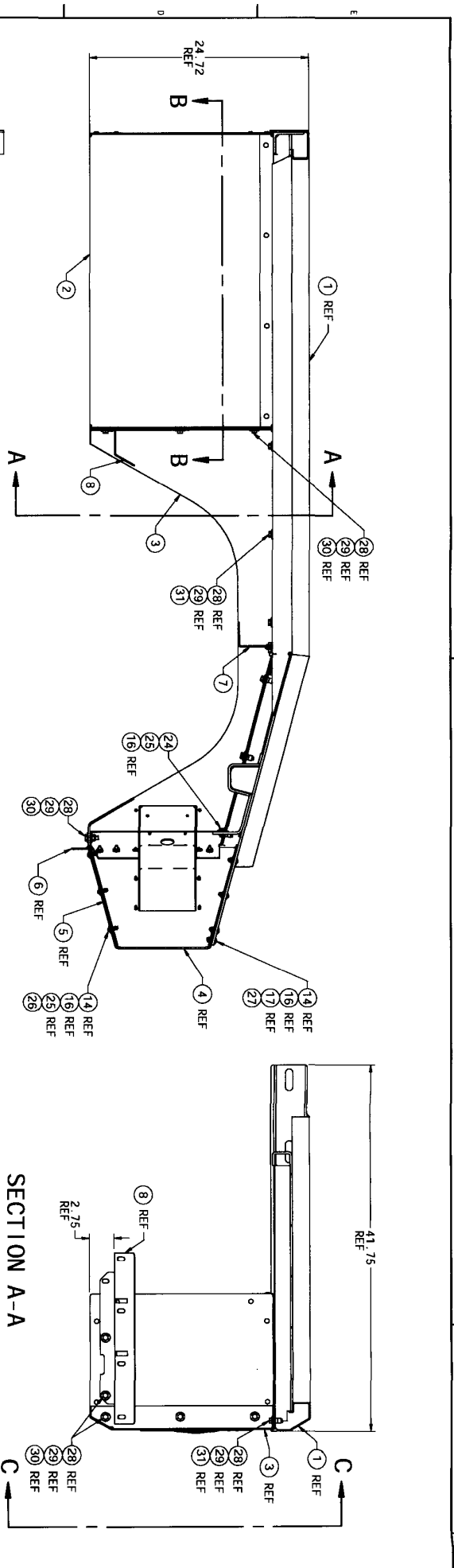
Revision #0/I/3774

Last Changed Date:

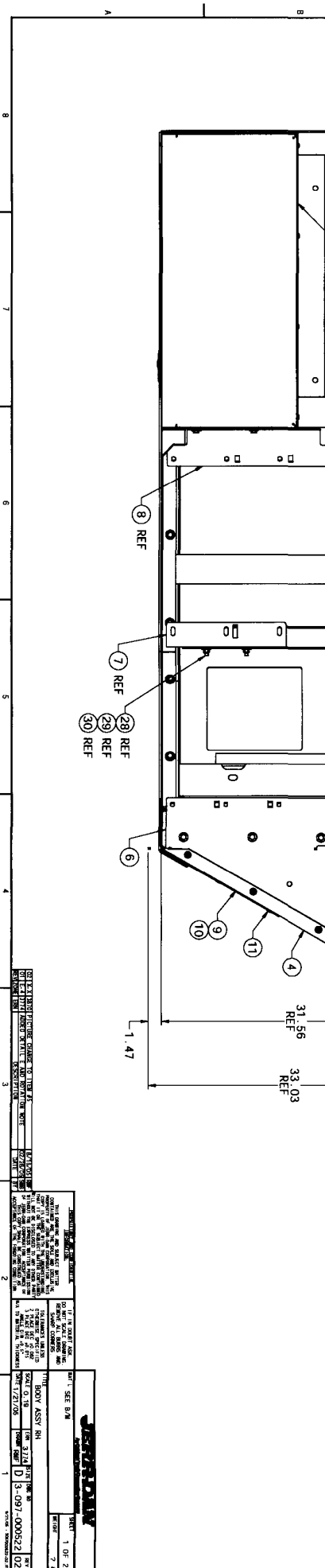
Quantity	Bin	Ball Dr	Component	Type	Location	Description	QtyPer UOM	Reference	Effectivity
1						Receive into whse: WYPT			
01	D	3097000524	M	WA01	DECK WELD RH MPL-40	1.000 PC			
02	D	3899000120	M	WA01	TOOLBOX BONDMENT RH	1.000 PC			
03	D	4811000820	M	WA01	SHEET 0.12 x 23.56 x 52.36 RH	1.000 PC			
04	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 PATCHET #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			

BODY ASSY RH

DMG NO 3-097-000522 02 REV



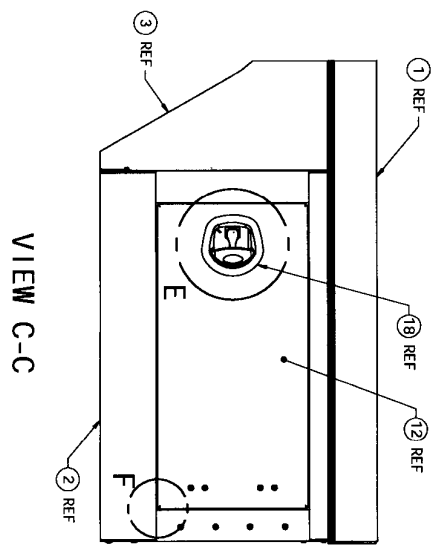
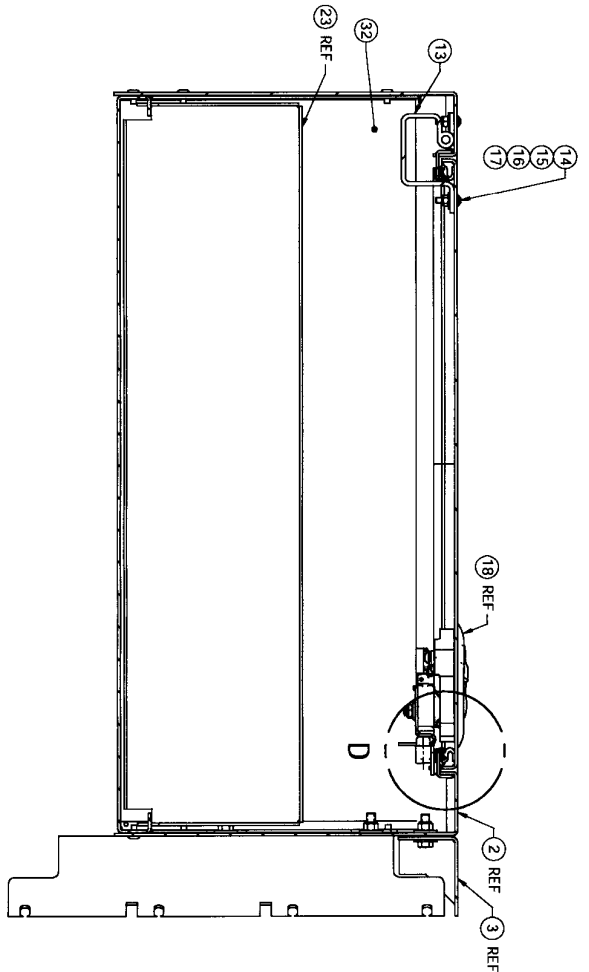
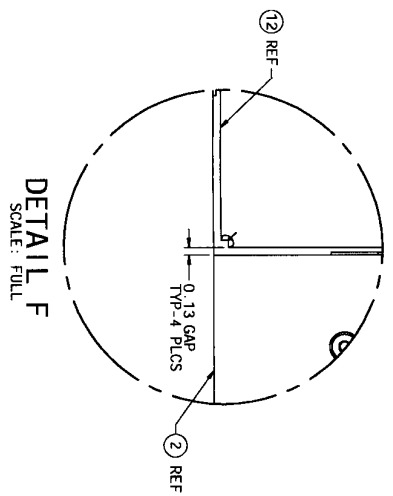
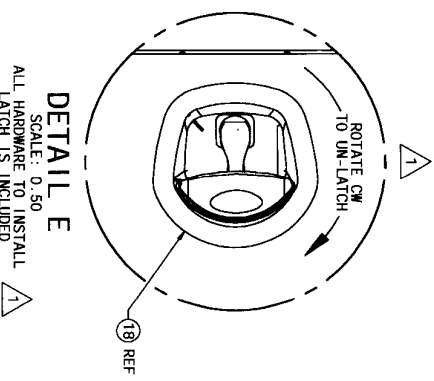
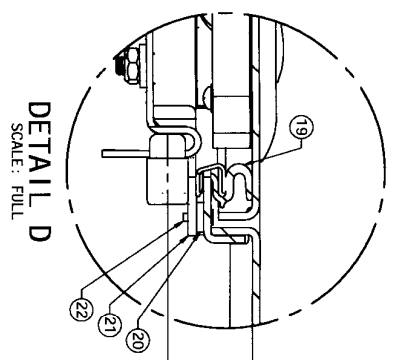
- NOTES:
1. LOCATE SEAL (ITEM 10) BETWEEN ITEM 1 & ITEM 4.
 2. BETWEEN ITEM 3 & ITEM 4, AND BETWEEN ITEM 4 & ITEM 9 TO PREVENT PAINT DAMAGE.



REV	DATE	BY	CHKD	DESCRIPTION
1	1/27/05			REVISED TO ADD DIMENSIONS
2	1/27/05			REVISED TO ADD DIMENSIONS
3	1/27/05			REVISED TO ADD DIMENSIONS
4	1/27/05			REVISED TO ADD DIMENSIONS
5	1/27/05			REVISED TO ADD DIMENSIONS
6	1/27/05			REVISED TO ADD DIMENSIONS
7	1/27/05			REVISED TO ADD DIMENSIONS
8	1/27/05			REVISED TO ADD DIMENSIONS
9	1/27/05			REVISED TO ADD DIMENSIONS
10	1/27/05			REVISED TO ADD DIMENSIONS
11	1/27/05			REVISED TO ADD DIMENSIONS
12	1/27/05			REVISED TO ADD DIMENSIONS
13	1/27/05			REVISED TO ADD DIMENSIONS
14	1/27/05			REVISED TO ADD DIMENSIONS
15	1/27/05			REVISED TO ADD DIMENSIONS
16	1/27/05			REVISED TO ADD DIMENSIONS
17	1/27/05			REVISED TO ADD DIMENSIONS
18	1/27/05			REVISED TO ADD DIMENSIONS
19	1/27/05			REVISED TO ADD DIMENSIONS
20	1/27/05			REVISED TO ADD DIMENSIONS
21	1/27/05			REVISED TO ADD DIMENSIONS
22	1/27/05			REVISED TO ADD DIMENSIONS
23	1/27/05			REVISED TO ADD DIMENSIONS
24	1/27/05			REVISED TO ADD DIMENSIONS
25	1/27/05			REVISED TO ADD DIMENSIONS
26	1/27/05			REVISED TO ADD DIMENSIONS
27	1/27/05			REVISED TO ADD DIMENSIONS
28	1/27/05			REVISED TO ADD DIMENSIONS
29	1/27/05			REVISED TO ADD DIMENSIONS
30	1/27/05			REVISED TO ADD DIMENSIONS
31	1/27/05			REVISED TO ADD DIMENSIONS

BODY ASSY RH

DWG NO 3-097-000522 02 REV



TITLE: BODY ASSY RH DATE: 12/17/05 DRAWN: [Signature] CHECKED: [Signature] APPROVED: [Signature]		PART: 2 OF 2 WEIGHT: 7.4
REF: SEE B/B DIM: 3174 UNIT: IN TOL: 0.13 SURF: 3-097-000522 02	BODY ASSY RH DIM: 3174 UNIT: IN TOL: 0.13 SURF: 3-097-000522 02	PART: 2 OF 2 WEIGHT: 7.4



** Report Excludes Shrinkage.
 Effective as of 07/20/05
 Item: 2509170038

***** Engineering Bill of Materials *****
 CONTROL INSTALL W/ DUAL WINCH

Reference: D/3774C
 Revision #B/2/3774
 From Item: 2509170038
 To Item: 2509170038
 Last Changed Date: 07/18/05

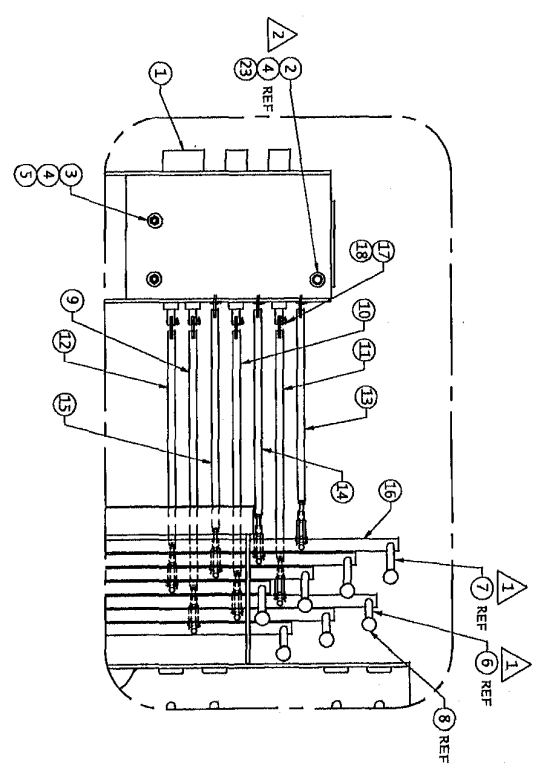
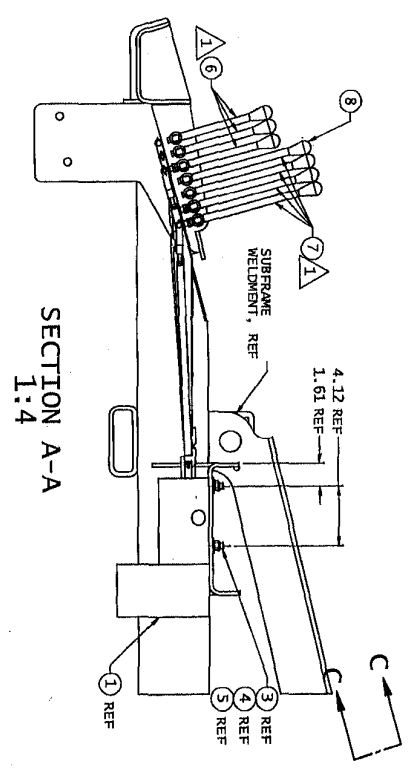
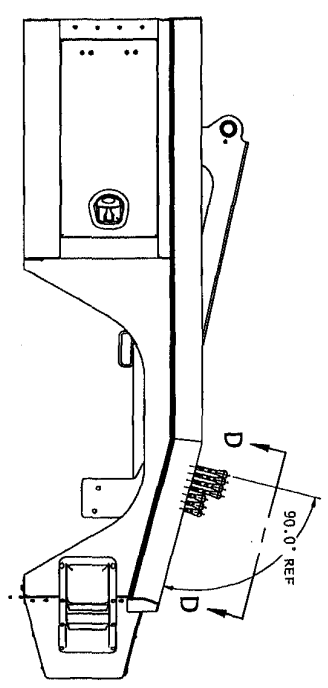
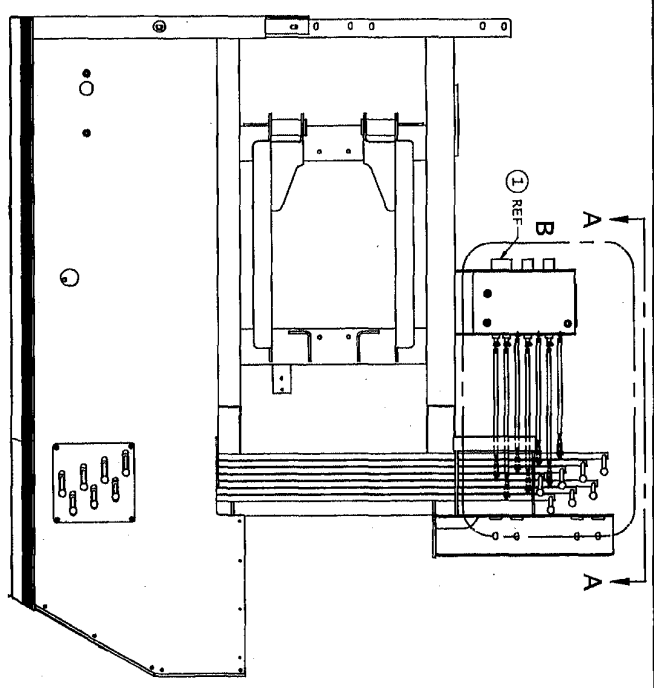
Quantity	Bin	Receive into Whse:	WYPT	BIN:	WA03	UOM:	PC
1							

Ball Dr	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		BOIT 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 MFLA0	2.000 PC		-

*** End of Item ***
 *** End of Report ***

CONTROL INSTALL W/ DUAL WINCH

REV NO 2-509-170038102

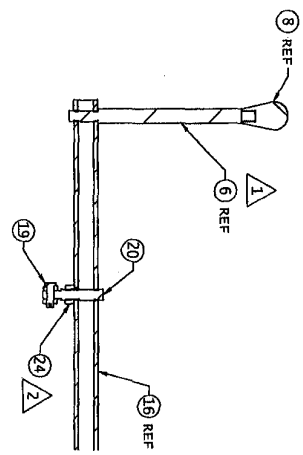


NO. OF SHEETS	1 OF 2
TITLE	CONTROL INSTALL W/ DUAL WINCH
DATE	2-509-170038 102
REV	
DESIGNED BY	
CHECKED BY	
APPROVED BY	
DATE	
SCALE	
PROJECT NO.	
DRAWING NO.	
REV NO.	
REV DATE	
REV BY	
REV DESCRIPTION	
REV NO.	
REV DATE	
REV BY	
REV DESCRIPTION	
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REV BY	
REV DESCRIPTION	
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REV BY	
REV DESCRIPTION	

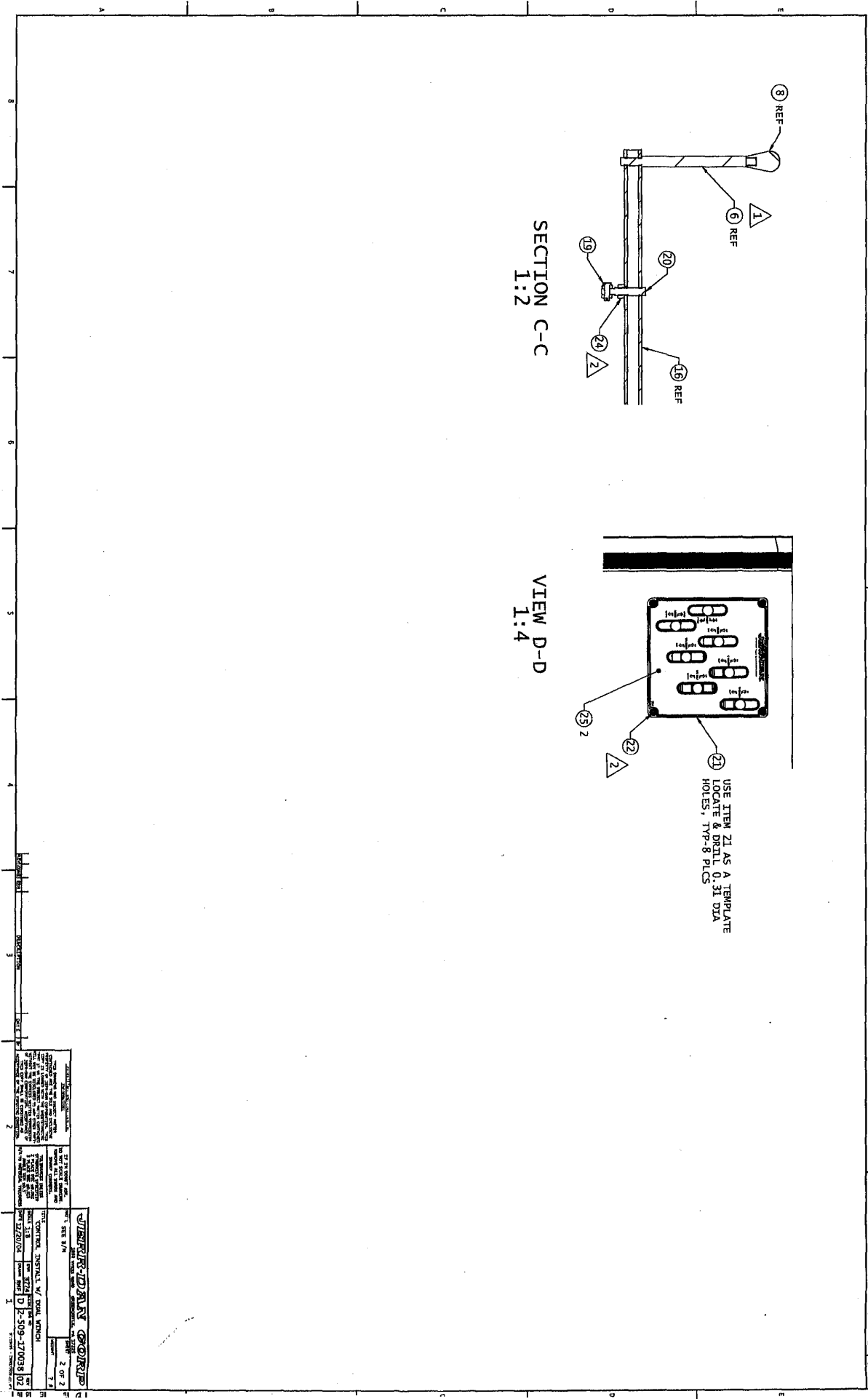
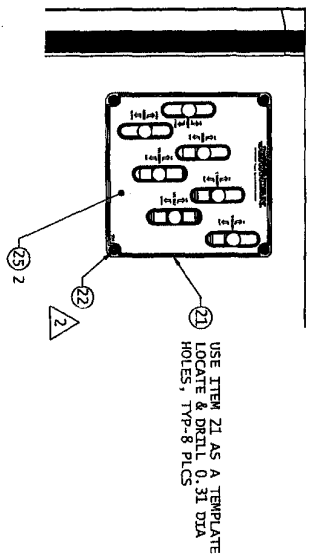
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CONTROL INSTALL W/ DUAL WINCH

REV NO 2-509-170038 02



VIEW D-D
1:4



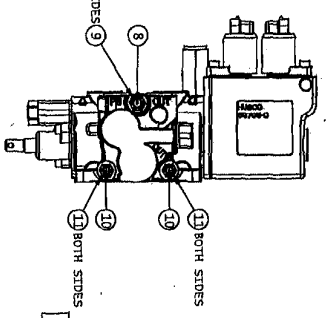
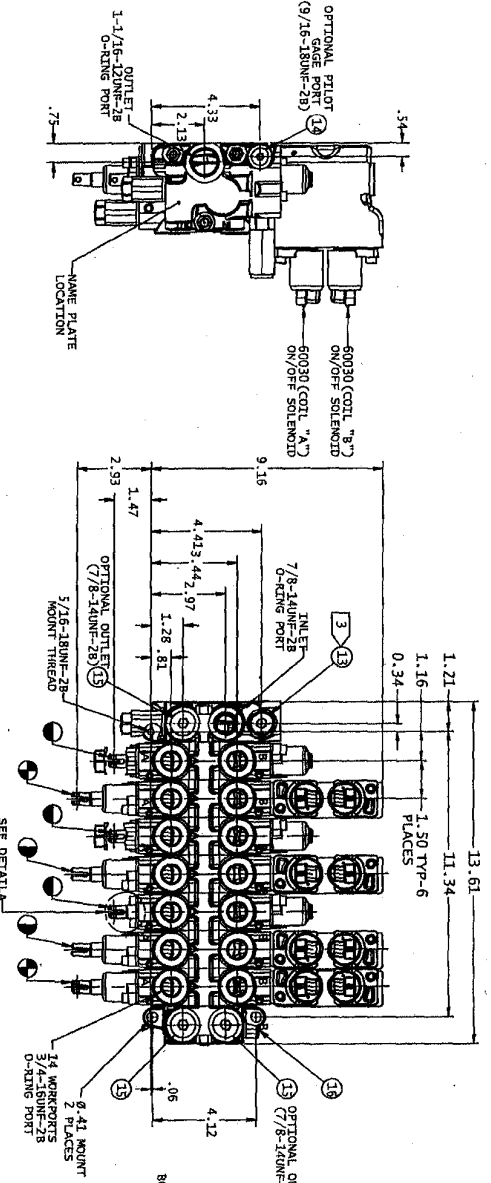
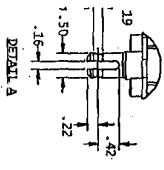
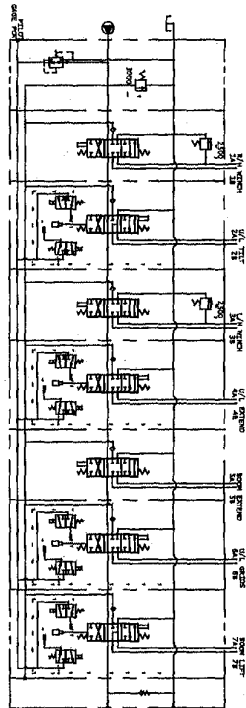
WILSON-JONES COMPANY 1000 W. 10th Street Tulsa, Oklahoma 74103 Phone: (918) 436-1111 Fax: (918) 436-1112	
TITLE: CONTROL INSTALL W/ DUAL WINCH DATE: 07/20/04 DRAWING NO: 2-509-170038 02	SHEET NO: 1 OF 2
DESIGNED BY: [Blank] DRAWN BY: [Blank] CHECKED BY: [Blank] APPROVED BY: [Blank]	DATE: [Blank]

VALVE ASSY, HUSCO 7 SECTION

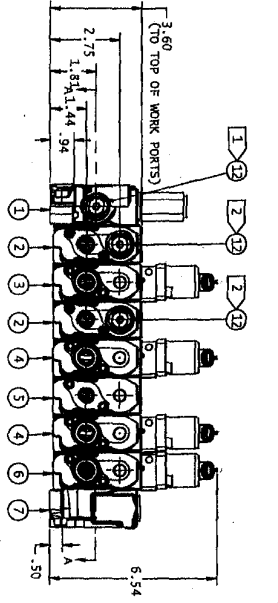
DATE NO. 3-935-000130 REV. 00

HUSCO: P/N 5000-681

SPOOL MOVEMENTS		ON/OFF COIL 60030	
COIL	VALVE	ON	OFF
(CND)	0-28 HI-PRESS "A" - LOW-PRESS "B" (CND)	ON	OFF
(CND)	0-28 HI-PRESS "A" & "B" (CND)	ON	OFF
(CND)	0-28 HI-PRESS "A" - LOW-PRESS "B" (CND)	OFF	ON
(CND)	0-28 HI-PRESS "A" - LOW-PRESS "B" (CND)	OFF	ON
(CND)	0-28 HI-PRESS "A" - LOW-PRESS "B" (CND)	OFF	ON
(CND)	0-28 HI-PRESS "A" - LOW-PRESS "B" (CND)	OFF	ON
(CND)	0-28 HI-PRESS "A" - LOW-PRESS "B" (CND)	OFF	ON
(CND)	0-28 HI-PRESS "A" - LOW-PRESS "B" (CND)	OFF	ON



ITEM	PART NO.	QTY	DESCRIPTION	HUSCO SPEC. / MISC.
18	53400-1	1	CHECK VALVE ASSY.	HUSCO SPEC. 805-101
17	52669-1	1	PLUG ASSY. -SME	HUSCO SPEC. 807-107
16	40007-9	1	PLUG ASSY. -SME	HUSCO SPEC. 807-105
15	58108-2	1	PRESSURE REGULATING VALVE	HUSCO SPEC. 805-033
14	59701-B	3	RELIEF VALVE ASSY.	HUSCO SPEC. 805-101
13	11861	4	NOT-SPECIAL	HUSCO SPEC. 812-101
12	10093-7	2	SOLENOID	HUSCO SPEC. 812-101
11	10093-7	2	SOLENOID	HUSCO SPEC. 812-101
10	3003-487	1	SOLENOID	HUSCO SPEC. 812-101
9	3003-487	1	SOLENOID	HUSCO SPEC. 812-101
8	3002-41219	1	SOLENOID	HUSCO SPEC. 812-101
7	3002-41219	1	SOLENOID	HUSCO SPEC. 812-101
6	3002-41218	1	SOLENOID	HUSCO SPEC. 812-101
5	3002-41218	1	SOLENOID	HUSCO SPEC. 812-101
4	3002-41218	1	SOLENOID	HUSCO SPEC. 812-101
3	3002-41218	1	SOLENOID	HUSCO SPEC. 812-101
2	3002-41218	1	SOLENOID	HUSCO SPEC. 812-101
1	3002-41218	1	SOLENOID	HUSCO SPEC. 812-101



ON/OFF SOLENOID	P/N: 60030
CONNECTOR ON VALVE	1212518-B (CND/744600124)
WATERING CONNECTOR	12124075-1 (CND/744600124)
WATERING PIN	12124075-1 (CND/744600124)
RESISTANCE	110 Ω
INDUCTANCE	110 mH
VOLTAGE	116 V
NOMINAL	112 V
MAX	1.6 A
RECOMMENDED	1.0 A
CURRENT	750 - 1600 mA
OFF	< 90 mA

PARALLEL CIRCUIT - OPEN CENTER

OPERATION SPECIFICATIONS:

- TEST WITH 100 PSI (6.89 BAR) PRESSURE
- VALVE TO BE TESTED AT 3000 ± 50 PSI @ 8 GPM
- LEAKAGE PERMITTED AT 1000 PSI: A. 5% @ 50 PSI; B. 5% @ 1000 PSI; C. 5% @ 3000 PSI
- SPECIAL TEST SPECIFICATIONS: 1. 1.5" CIP; 2. 1.5" CIP; 3. 1.5" CIP; 4. 1.5" CIP; 5. 1.5" CIP
- ELECTRICAL SPECS.: SEE TABLE A

REVISIONS:

NO.	DATE	DESCRIPTION
1	10/27/03	REVISED TO ADD PARALLEL CIRCUIT - OPEN CENTER
2	10/27/03	REVISED TO ADD PARALLEL CIRCUIT - OPEN CENTER
3	10/27/03	REVISED TO ADD PARALLEL CIRCUIT - OPEN CENTER
4	10/27/03	REVISED TO ADD PARALLEL CIRCUIT - OPEN CENTER
5	10/27/03	REVISED TO ADD PARALLEL CIRCUIT - OPEN CENTER
6	10/27/03	REVISED TO ADD PARALLEL CIRCUIT - OPEN CENTER
7	10/27/03	REVISED TO ADD PARALLEL CIRCUIT - OPEN CENTER
8	10/27/03	REVISED TO ADD PARALLEL CIRCUIT - OPEN CENTER
9	10/27/03	REVISED TO ADD PARALLEL CIRCUIT - OPEN CENTER
10	10/27/03	REVISED TO ADD PARALLEL CIRCUIT - OPEN CENTER



** Report Excludes Shrinkage.

Effective as of 08/04/05

Item: 3509330097

ELECT ASSY CONTROL MPL-40 W/HYD GRIDS

Reference: D/3774E

Last Changed Date:

From Item: 3509330097

To Item: 3509330097

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

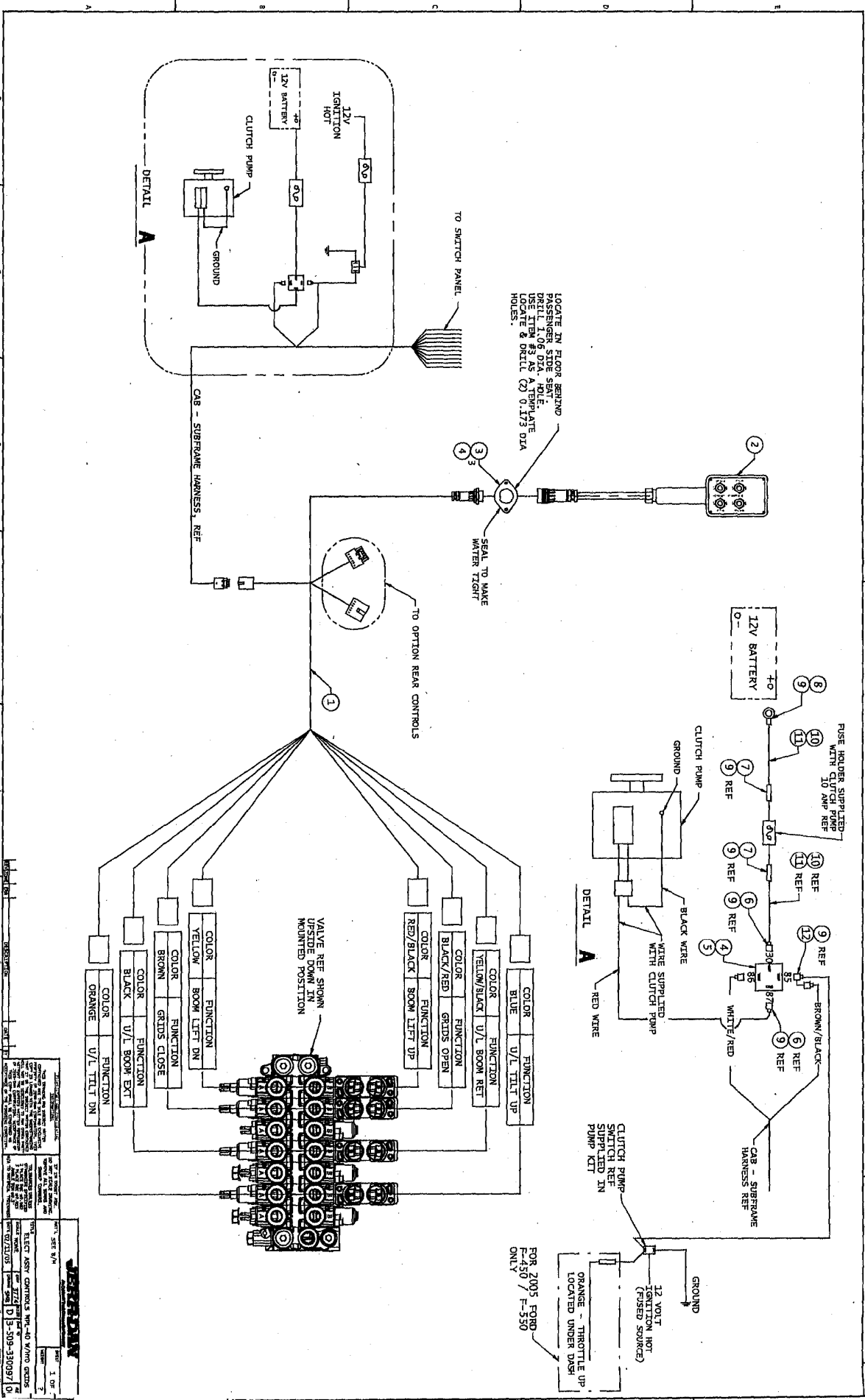
Quantity 1 Receive into Whse: MYPT Revision #0/0
 BIN: WA03 TOM: PC

Ball Dr	Component	Type	Location	Description	Qty	UOM	Reference	Effectivity
01	D	P	K06	HARNESSES WIRED REMOTE MPL40	1.000	PC	-	-
02	D	P	A20	CONTROLLER HAND 8 FUNCT W/ LANYARD	1.000	PC	-	-
03	A	M	WA00	PLATE 0.06 X 1.75 X 2.50 ALUM	1.000	PC	-	-
04	N	P	000103	C21 X01 SCREW #10 X .50" HMW SELF-TAPPING	3.000	PC	-	-
05	A	P	A07	F18 RELAY (W/MTG BRKT) 12VDC 40A	1.000	PC	-	-
06	N	P	C20	J19 TAB #192005 .25" 14-16 NON-INSUL (F)	2.000	PC	-	-
07	N	P	022506	C19 J19 TERMINAL #1222005 14-16 NON-INSULATED	1.000	PC	-	-
08	N	P	C19	J17 TERMINAL .25" 16-14 WIRE NON-INS RING	1.000	PC	-	-
09	N	P	D14	G-FLOOR J0 TUBING .25" ID HS W/ADHESIVE - 48" LG	1.000	PC	-	-
10	N	R	B08	G04 WIRE #16GA TYPE SXL BLACK	3.000	Ft	-	-
11	N	R	E-FLOOR	E22 WIRE .25" CONVOLUTED LOOM	3.000	Ft	-	-
12	N	P		FASTENERS PIGGY BACK #B51614-PBF	1.000	PC	-	-

*** End of Item ***

*** End of Report ***

ELECT ASSY CONTROLS MPL-40 W/HYD GRIDS REV 00



REVISIONS

NO.	DATE	DESCRIPTION
1	07/21/03	ISSUED FOR PRODUCTION
2	07/21/03	REVISED TO REFLECT CHANGES TO THE WIRING HARNESS KIT
3	07/21/03	REVISED TO REFLECT CHANGES TO THE WIRING HARNESS KIT

DATE: 07/21/03

BY: [Signature]

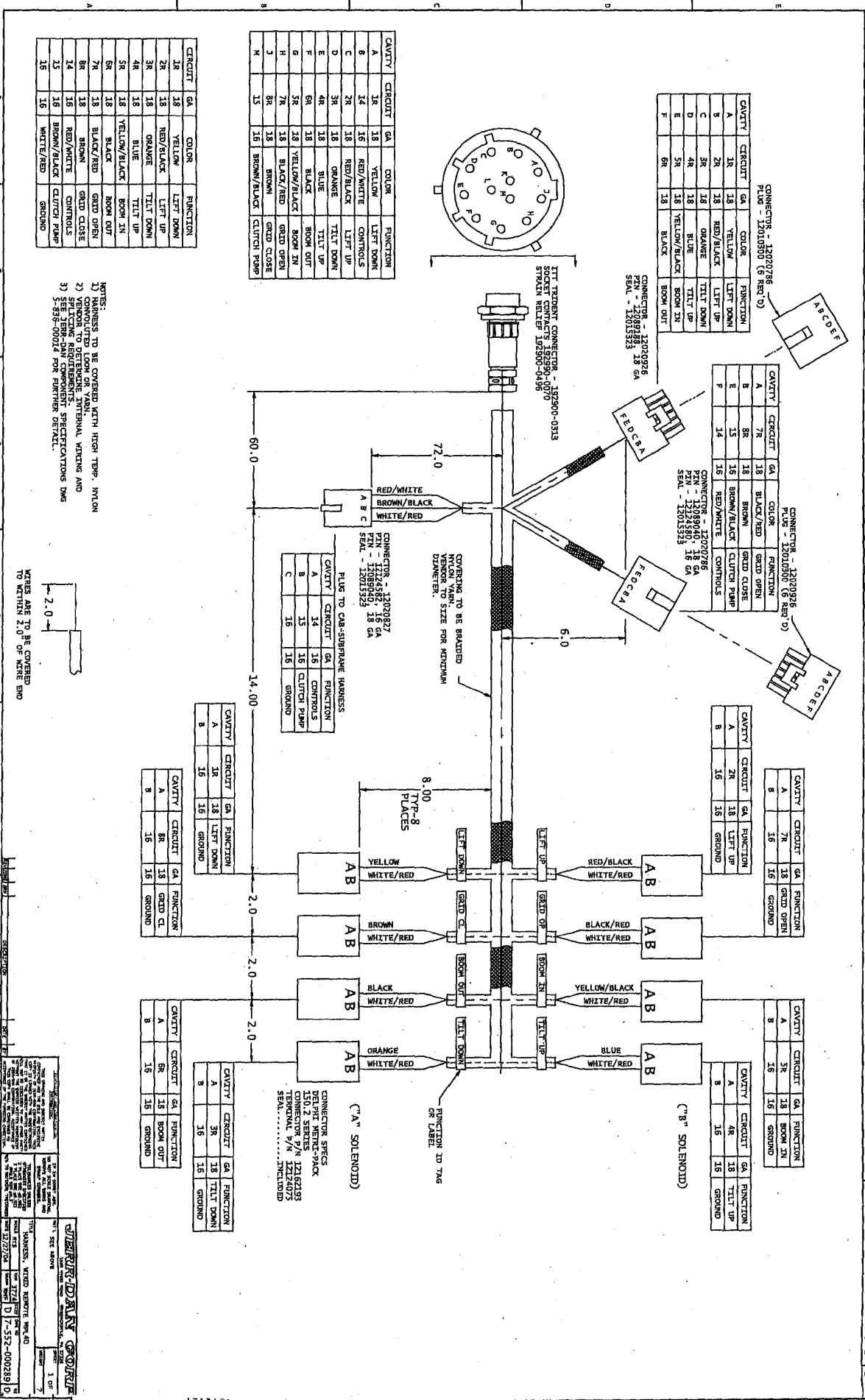
APPROVED: [Signature]

1 OF 2

3-509-330097 00

HARNES, WIRED REMOTE MPL40

DATE NO. 7-552-000289100 REV.



GENERAL INFORMATION

THIS HARNESS IS TO BE USED WITH THE FOLLOWING PARTS:

Part No.	Quantity	Description
12020287	1	CONNECTOR
12010300	1	SEAL
12020296	1	CONNECTOR
12010300	1	SEAL

TERMINAL PACKS: 12010300 (12010300)

WIRING: 12020287 (12020287)

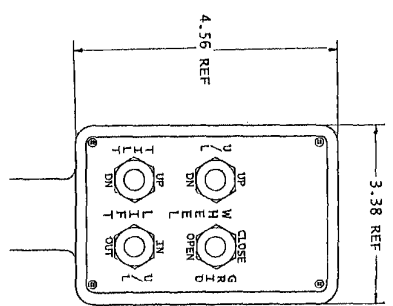
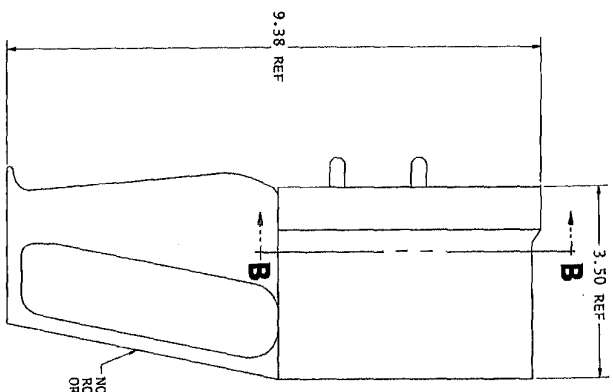
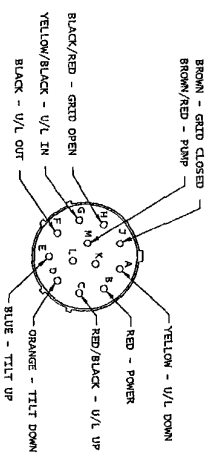
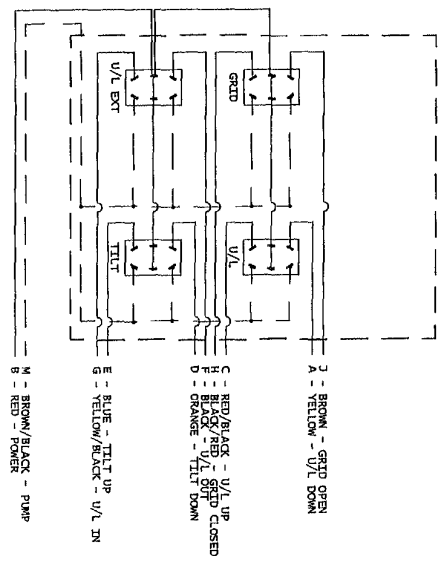
DATE: 12/22/02

REV: 01

REV NO: 7-552-000289100

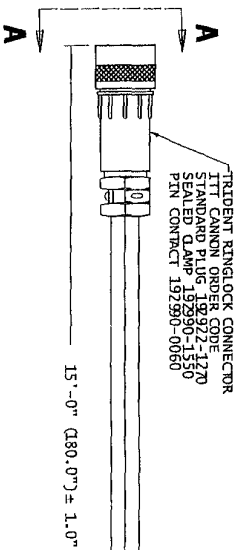
CONTROL, 8 FUNCTION WIRED REMOTE

DWG NO 7-295-00006200 REV 00



NOTE: ROSE ENCLOSURE P/N 29213000 OR EQUAL

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



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

REVISIONS 1. 01/15/03 CONTROL, 8 FUNCTION WIRED REMOTE 1.00 1		DATE 01/15/03
DESIGNER J. J. JONES		DATE 01/15/03
CHECKED J. J. JONES		DATE 01/15/03
APPROVED J. J. JONES		DATE 01/15/03



** Report Excludes Shrinkage.

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

Effective as of 08/04/05

WINCH INSTALL DUAL HD234 MPL40

Reference: D/3774C
 From Item: 2509900044
 To Item: 2509900044
 Last Changed Date:

Item: 2509900044

Quantity: 1
 Receive into whse: MYPT
 Revision #0/0
 BIN: MA03
 TOM: PC

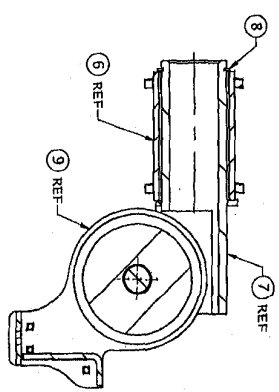
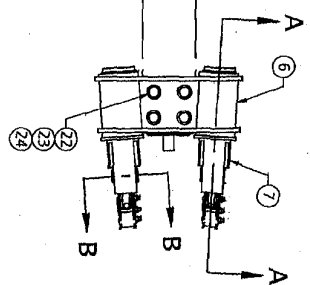
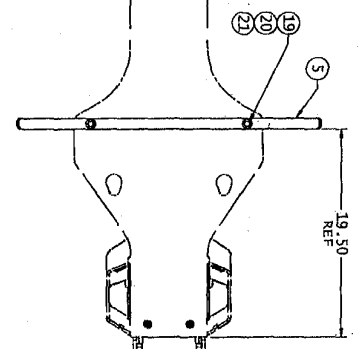
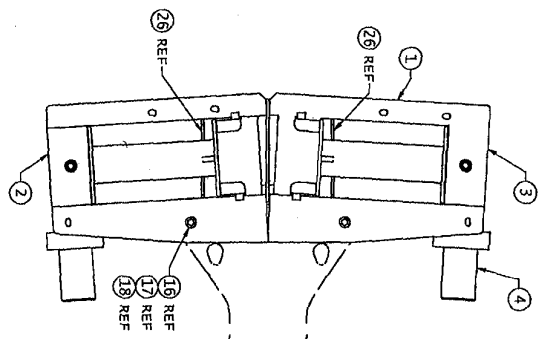
Ball Dr	Component	Type	Location	Description	Qty	UOM	Reference	Effectivity
01	D	3178000419	M WA02	BRKT WELD, DUAL WINCH MOUNT HD-234	1.000	PC	-	-
02	3	7970000103	P M03	WINCH #HD-234L 8000# LH WORM GEAR	1.000	PC	-	-
03	D	7970000104	P M02	WINCH #HD-234R 8000# RH WORM GEAR	1.000	PC	-	-
04	A	7626000014	P 010204	ORBIT MOTOR #101-1701-009 / #BPI-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	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 901	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	RING RETAINING - 1.25" DIA SHAFT	4.000	PC	-	-
14	N	7115160850	P 000102	CAPSCREW .38"-16NC X 1.00" HEX HEAD	16.000	PC	-	-
15	N	7950160000	P 000104	LOCK WASHER .38"ID - PLATED	16.000	PC	-	-
16	N	7950160162	P A97	FLATWASHER .38" NOM WIDE HARDENED	28.000	PC	-	-
17	N	7115161250	P 000102	CAPSCREW .38"-16NC X 1.50" HEX HEAD	6.000	PC	-	-
18	N	7660162601	P 000105	LOCKNUT .38"-16NC GR5 NYLOC	6.000	PC	-	-
19	N	7115151050	P 000105	CAPSCREW .31"-18NC X 1.25" HEX HEAD	2.000	PC	-	-
20	N	7950150161	P 030602	FLATWASHER .31" NOM WIDE - PLATED	2.000	PC	-	-
21	N	7660152601	P 022603	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	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 ***

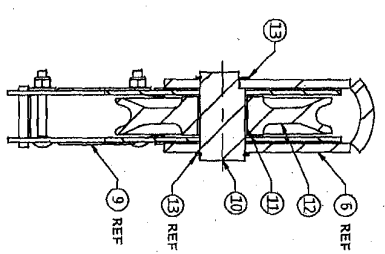
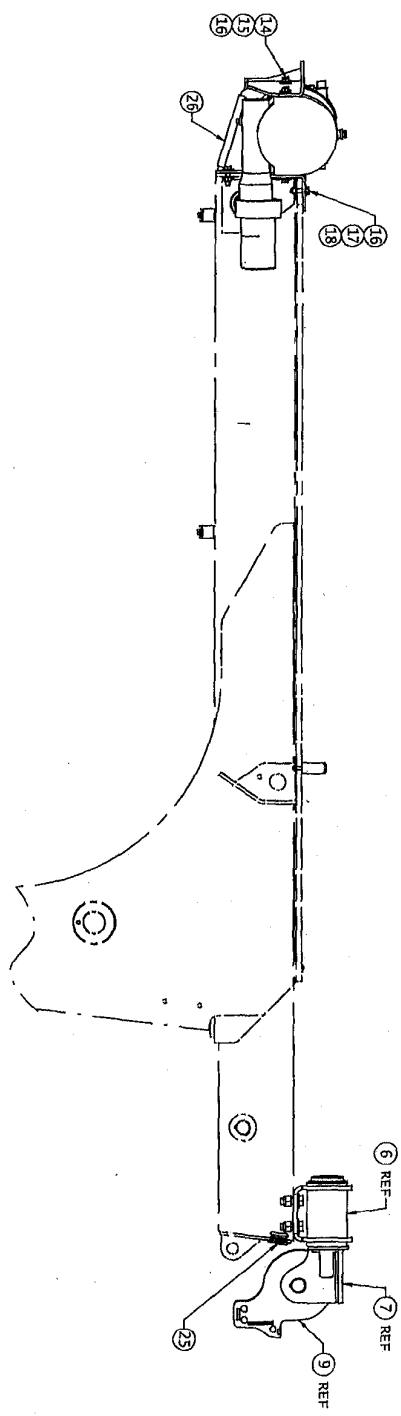
*** End of Report ***

WINCH INSTALL DUAL HD-234 MPL-40

DWG NO 2-509-900044 00 REV



SECTION A-A
SCALE: 0.38



SECTION B-B
SCALE: 0.62

<p>JENSEN</p> <p>WINCH INSTALL DUAL HD-234 MPL-40</p> <p>DATE: 07/19/05</p> <p>REV: 02-509-900044 00</p>		<p>1 OF 2</p> <p>2</p>
<p>NO. 27 REVISIONS</p> <p>NO. 27 REVISIONS</p> <p>NO. 27 REVISIONS</p>	<p>NO. 27 REVISIONS</p> <p>NO. 27 REVISIONS</p> <p>NO. 27 REVISIONS</p>	<p>NO. 27 REVISIONS</p> <p>NO. 27 REVISIONS</p> <p>NO. 27 REVISIONS</p>



** Report Excludes Shrinkage.

Effective as of 08/04/05

Item: 3249000034

CABLE GUIDE ASSY

Reference: C/3774C

From Item: 3249000034
To Item: 3249000034

Last Changed Date:

Revision #0/1/3774

Revision #0/1/3774

TOM: PC

WA03

Quantity

1

Receive into whse: MYPT

Ball Dr

Bin

Component Type Location

Description

QtyPer TOM

Reference

Effectivity

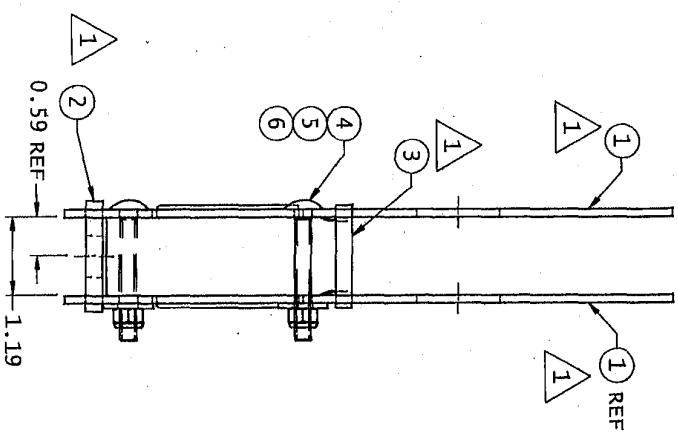
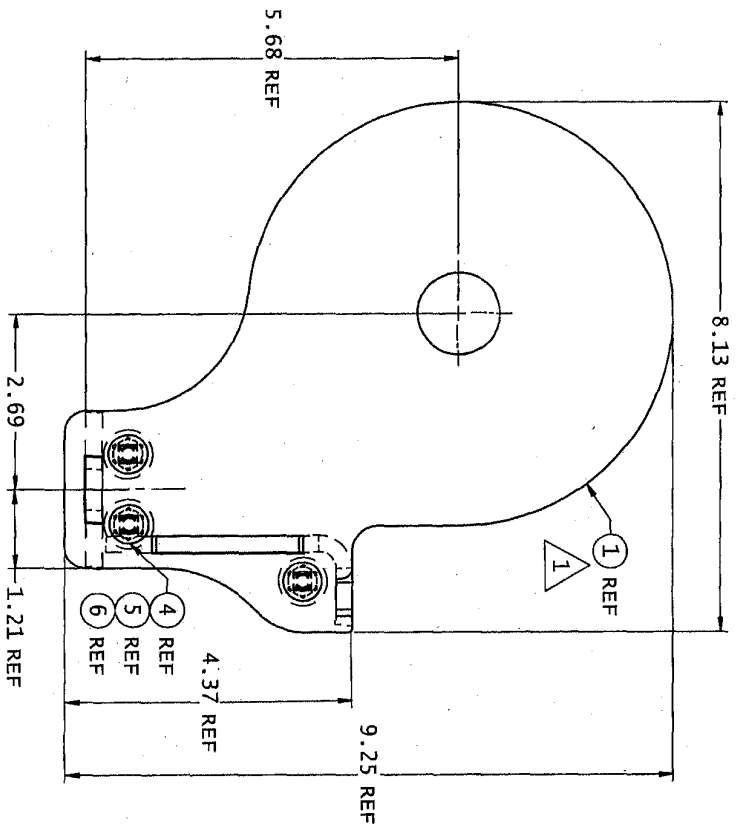
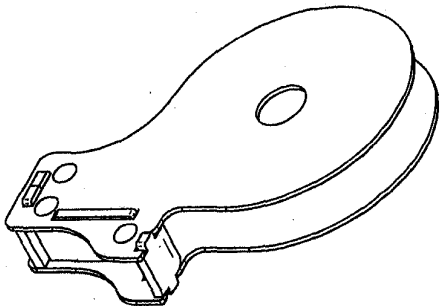
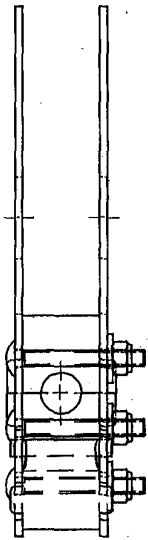
Component	Type	Location	Description	QtyPer TOM	Reference	Effectivity
01	B	4811000760	M WA02 SHEET 11GA X 8.13 X 9.25	2.000	PC	-
02	A	4706004851	M WA02 PLATE 0.25 X 1.19 X 1.69	2.000	PC	-
03	B	4706004852	M WA02 PLATE 0.25 X 1.56 X 4.66	1.000	PC	-
04	N	7115141664	P CAPSCREW 0.25-20 UNC X 2.00 CARRIAGE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

*** End of Item ***

*** End of Report ***

CABLE GUIDE ASSEMBLY

DWG NO 3-249-00034 01 REV



REV	DATE	DESCRIPTION
01	12/70/04	REMOVED INFORMATION FROM CABLE GUIDE DRAWING 7-14-34440

THIS DRAWING AND SUBJECT MATTER IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE. IT IS THE POLICY OF THE NATIONAL ARCHIVES TO MAKE AVAILABLE TO THE PUBLIC INFORMATION CONTAINED HEREIN. THIS INFORMATION IS BEING RELEASED TO YOU WITHOUT LIMITATION. HOWEVER, YOU WILL BE RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMISSIONS FROM THE ORIGINAL SOURCE FOR REPRODUCTION OR FOR THE USE OF THIS INFORMATION IN ANY MANNER THAT MAY BE PROHIBITED BY APPLICABLE LAWS, REGULATIONS, OR ORDINANCES.

JEFFER-DAN CORP
 2000 NINTS ROAD GREENVILLE, PA 17725

DATE 12/20/04
 SCALE 0.75
 SHEET 1 OF 1
 REV C 3-75#

DATE 12/20/04
 DRAWN SMH
 CHECK C
 REV 3-249-00034 01



** Report Excludes Shrinkage.
 Effective as of 08/04/05
 Item: 2509900053

***** Engineering Bill of Materials *****
 WINCH INST SINGLE WARN PLANETARY
 Reference: D/3774C

From Item: 2509900053
 To Item: 2509900053
 Last Changed Date:

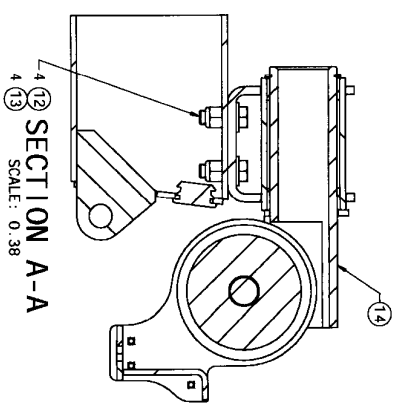
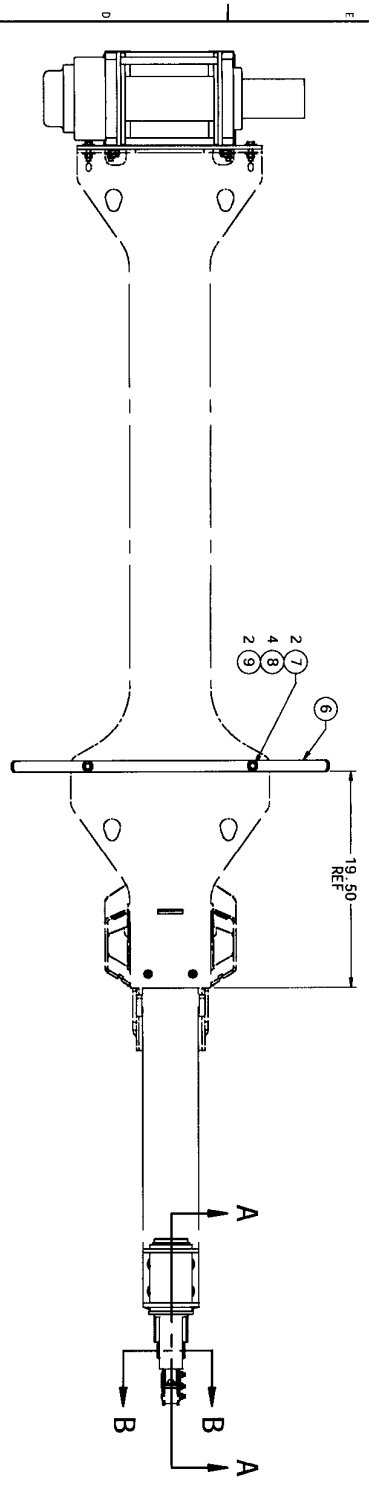
Quantity 1
 Receive into Whse: MYPT
 Revision #0/0
 BIN: WA03
 UOM: PC

Ball Dr	Component	Type	Location	Description	Qty per 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	WBBS	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	A100	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	-

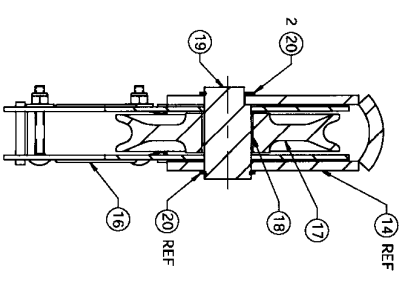
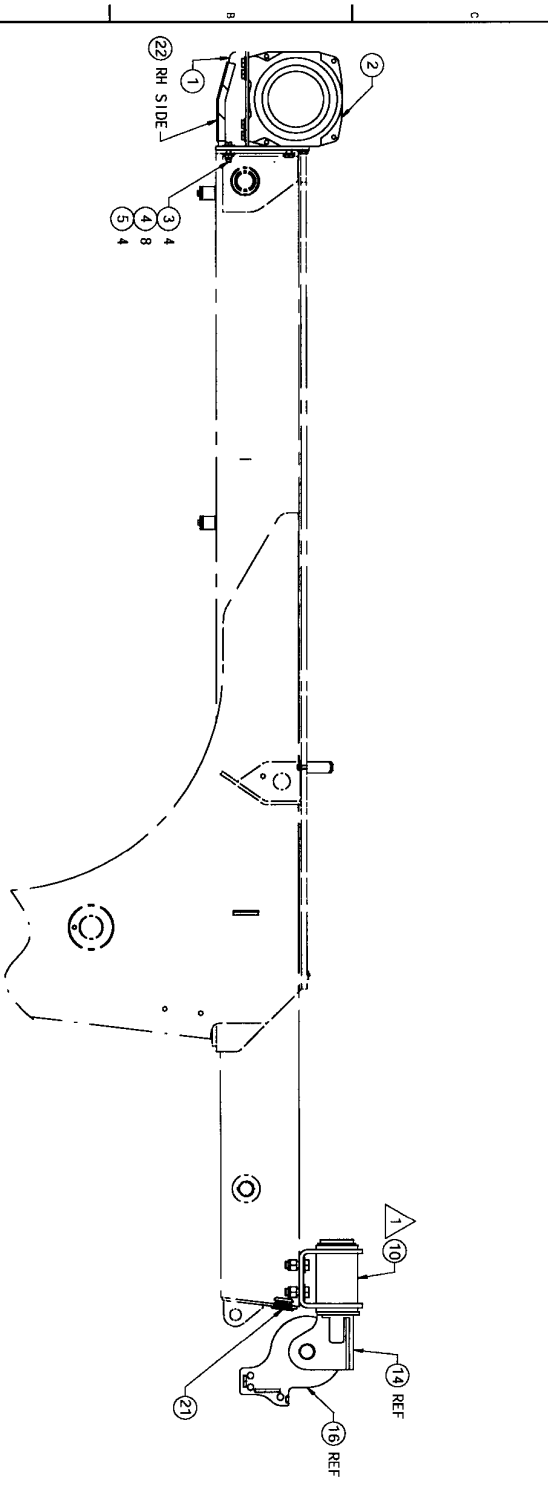
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 *** End of Report ***

WINCH INSTALL SINGLE PLAN MPL-40

DMG NO 2-509-900053 01



SECTION A-A
SCALE: 0.38



SECTION B-B
SCALE: 0.62

<p>SECTION B-B</p> <p>SCALE: 0.62</p>		<p>SECTION A-A</p> <p>SCALE: 0.38</p>	
<p>WINCH INSTALL SINGLE PLAN MPL-40</p>			
<p>SCALE: 3.15</p>			
<p>DATE: 7/10/05</p>			
<p>REV: 01</p>			
<p>2-509-900053 01</p>			



** Report Excludes Shrinkage.
Effective as of 08/04/05
Item: 3249000034

***** Engineering Bill of Materials *****
CABLE GUIDE ASSY

Reference: C/3774C
Revision #0/1/3774
From Item: 3249000034
To Item: 3249000034
Last Changed Date:

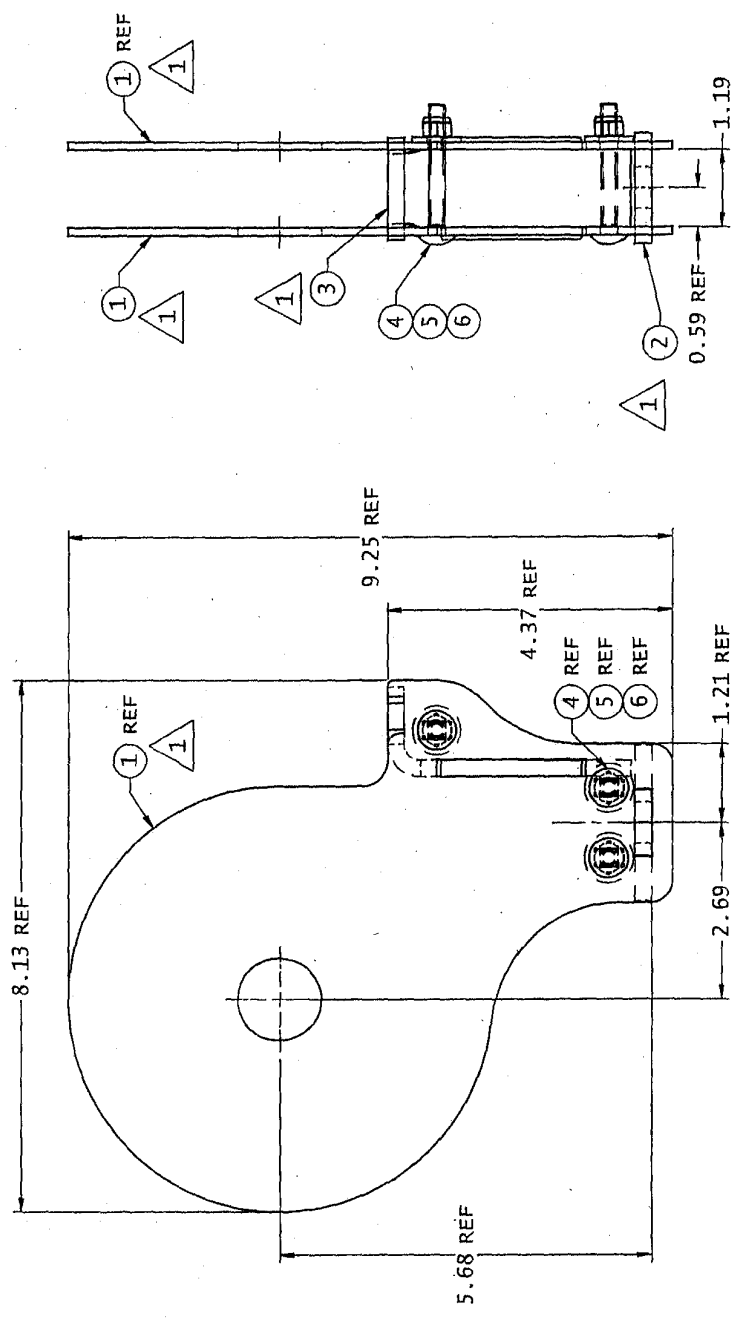
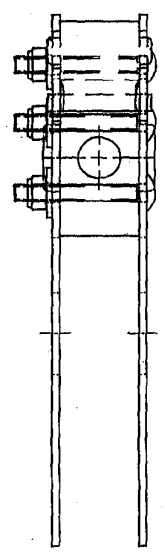
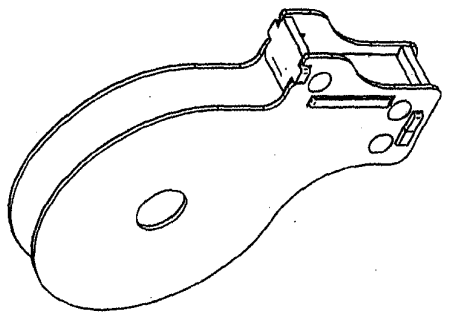
Quantity 1 Receive into Whse: MYPT BIN: WA03 UOM: PC

Ball Dr	Component	Type	Location	Description	Qty per 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 NYLON STAINLESS	3.000	PC	-
06	N	7950140153	P	FLAT WASHER .25 NOM WIDE S/S	3.000	PC	-

*** End of Item ***
*** End of Report ***

DWG NO 3-249-00034 01 REV

CABLE GUIDE ASSEMBLY



VERIDAN CORP.
 300 WISSA ROAD, CHESTERPA, PA 17325

WAT. SEE B/M SHEET 1 OF 1
 RESORT C 3.75#

TITLE CABLE GUIDE ASSEMBLY
 DATE 12/20/04
 SCALE 0.75
 DRAWN BY 3774
 CHECKED BY 3774
 PROJECT NO. C 3-249-000034 01

PROVIDE AND ASSEMBLE
 THIS DRAWING AND SUBJECT MATTER
 ACCORDING TO THE SPECIFICATIONS AND
 NOTES HEREON. THE CONTRACTOR SHALL
 BE RESPONSIBLE FOR OBTAINING ALL
 NECESSARY PERMITS AND APPROVALS
 FROM THE APPROPRIATE AGENCIES.
 THE CONTRACTOR SHALL BE RESPONSIBLE
 FOR OBTAINING ALL NECESSARY
 MATERIALS AND SUPPLIES.
 THE CONTRACTOR SHALL BE RESPONSIBLE
 FOR OBTAINING ALL NECESSARY
 LABORERS AND WORKERS.
 THE CONTRACTOR SHALL BE RESPONSIBLE
 FOR OBTAINING ALL NECESSARY
 EQUIPMENT AND TOOLS.
 THE CONTRACTOR SHALL BE RESPONSIBLE
 FOR OBTAINING ALL NECESSARY
 TRANSPORTATION AND LOGISTICS.
 THE CONTRACTOR SHALL BE RESPONSIBLE
 FOR OBTAINING ALL NECESSARY
 INSURANCE AND BONDS.
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 TRANSPORTATION AND LOGISTICS.
 THE CONTRACTOR SHALL BE RESPONSIBLE
 FOR OBTAINING ALL NECESSARY
 INSURANCE AND BONDS.
 THE CONTRACTOR SHALL BE RESPONSIBLE
 FOR OBTAINING ALL NECESSARY
 PERMITS AND APPROVALS.

REV	DESCRIPTION	DATE	BY
01	PICTURE CHANGE TO ITEMS 1, 2 & 3. REVISED INFLATION CABLE GUIDE FROM 4-7-ILL 241864 WAS 7-114-184350	12/20/04	RHF



** Report Excludes Shrinkage.

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

Effective as of 07/25/05
Item: 2170000068

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

Reference: D/3774B

From Item: 2170000068
To Item: 2170000068

Last Changed Date:

Quantity 1 Receive into Whse: WYPT BIN: WA03 DOM: PC

Ball Dr Bin

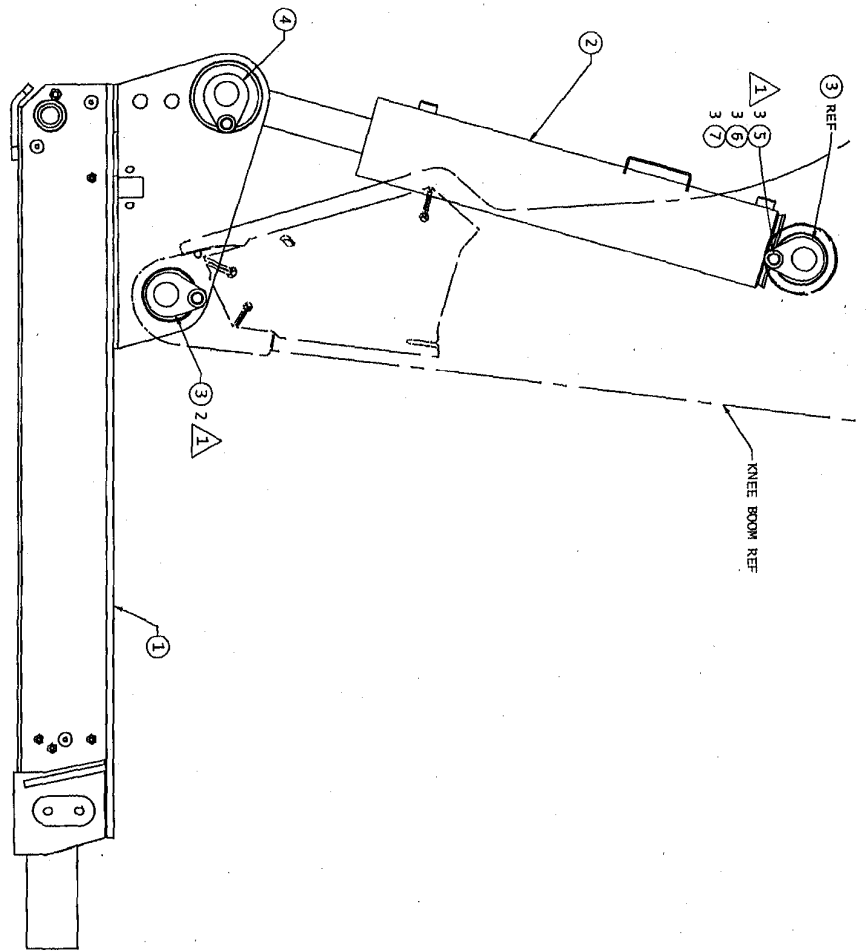
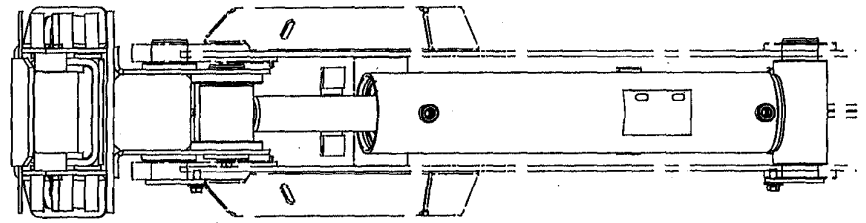
Bin	Dr	Component	Type	Location	Description	QtyPer	DOM	Reference	Effectivity
01	D	3170000368	M	WA00	BOOM ASSY HYD FIXED GRID UL (NO-LUBE)	1.000	PC	-	-
02	C	3320000150	M	WA00	CYLINDER ASSY 4.00/2.00 X 28.19-45.25	1.000	PC	-	-
03	B	3691000242	M	WA00	PIN WELD 2.00 DIA X 7.88	2.000	PC	-	-
04	B	3691000236	M	WA02	PIN WELD 2.00 DIA X 5.00	1.000	PC	-	-
05	N	7950160161	P	000104	A97 X01 FLATWASHER .38" NOM WIDE - PLATED	3.000	PC	-	-
06	N	7115160850	P	000102	a32 X01 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 ***

U/L BOOM INSTL MPL-40 HYD FIXED GRIDS

DRG NO 2-170-000068 01 REV



<p>JERRARD</p> <p>U/L BOOM INSTL MPL-40 HYD FIXED GRIDS</p> <p>REV 01/23/75</p> <p>DRG NO 2-170-000068 01</p>		<p>1 OF 1</p>
<p>DATE: 8/78</p> <p>BY: JRM</p> <p>CHECKED: JRM</p> <p>APPROVED: JRM</p>	<p>2-170-000068</p> <p>U/L BOOM INSTL MPL-40 HYD FIXED GRIDS</p> <p>REV 01/23/75</p> <p>DRG NO 2-170-000068 01</p>	<p>1</p>



** Report Excludes Shrinkage.
 Effective as of 07/25/05
 Item: 3170000368

***** Engineering Bill of Materials *****
 BOOM ASSY HYD FIXED GRID UL (NO-LUBE)
 Reference: D/3775

From Item: 3170000368
 To Item: 3170000368
 Last Changed Date: 12/15/04

Quantity	Bin	Receive into Whse:	Revision #	Bin	UOM	PC
1		MYPT	00/0	WA00		

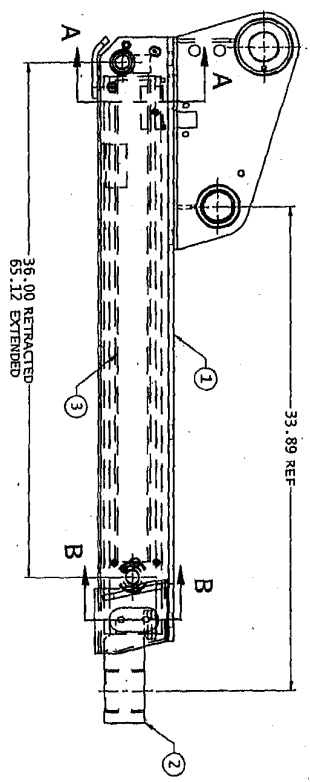
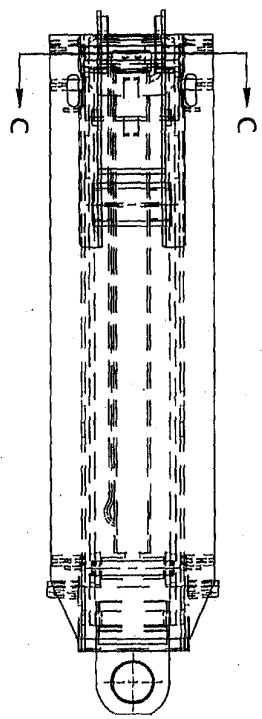
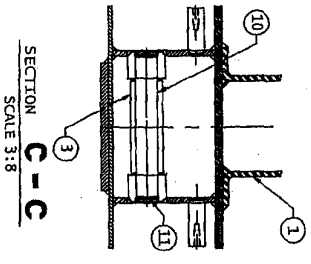
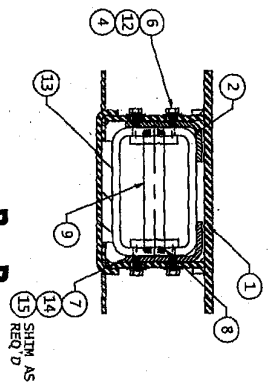
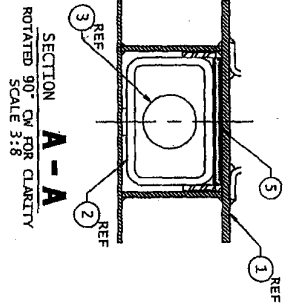
Bin Dr	Component	Type	Location	Description	Qty Per UOM	Reference	Effectivity
01	D 3170000367	M	WA00	BOOM WELD BASE FIXED GRID UL (NO-LUBE)	1.000	PC	-
02	C 3170000346	M	WA00	BOOM WELD INNER FIXED GRID UL (NO-LUBE)	1.000	PC	-
03	C 3320000148	M	110101 WA00	CYLINDER ASSY 2.13/1.00 X 36.00-65.12	1.000	PC	-
04	N 7950150161	P	030602 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	CAPSCREW .31"-24NF X .63" HEX HEAD	4.000	PC	-
07	B 4062000455	M	102001 WBPB	BAR 0.25 X 1.00 X 5.00	2.000	PC	-
08	+ 7754000019	P	000107 b65	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 X01	WASHER .31" NOM REG LOCK - PLATED	4.000	PC	-
13	A 46790000211	P	020701 d12 d14	PAD 0.50 X 3.00 X 4.75 WEAR	1.000	PC	-
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)

DWG NO. **3-170-000368** REV **00**



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

<p>GENERAL NOTES:</p> <p>1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.</p> <p>2. DIMENSIONS TO CENTER UNLESS OTHERWISE SPECIFIED.</p> <p>3. DIMENSIONS TO SURFACE UNLESS OTHERWISE SPECIFIED.</p> <p>4. DIMENSIONS TO CENTER UNLESS OTHERWISE SPECIFIED.</p> <p>5. DIMENSIONS TO SURFACE UNLESS OTHERWISE SPECIFIED.</p> <p>6. DIMENSIONS TO CENTER UNLESS OTHERWISE SPECIFIED.</p> <p>7. DIMENSIONS TO SURFACE UNLESS OTHERWISE SPECIFIED.</p>	
<p>DATE: 11/27/78</p> <p>BY: [Signature]</p> <p>CHKD: [Signature]</p> <p>APP'D: [Signature]</p>	<p>REV 00</p> <p>3-170-000368</p>



** Report Excludes Shrinkage.

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

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

Quantity 1 Receive into whse: MYPY BOM: PC

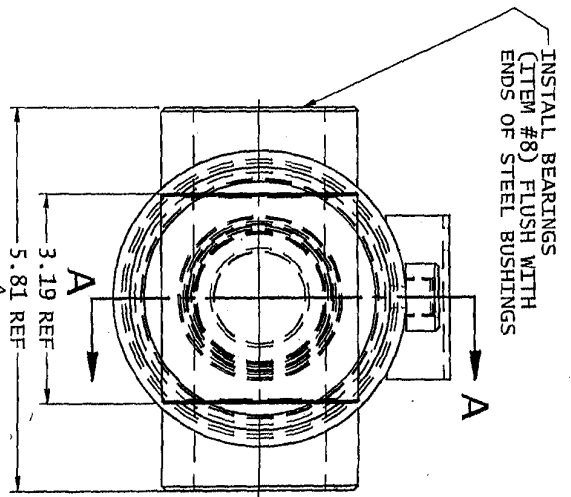
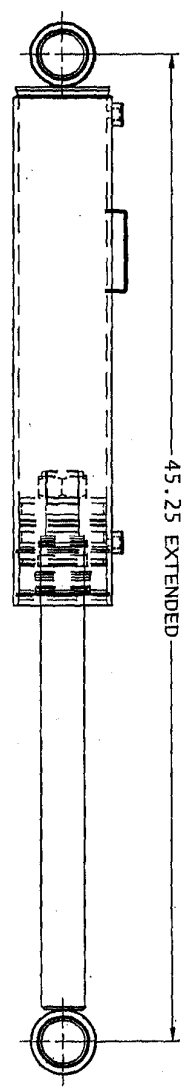
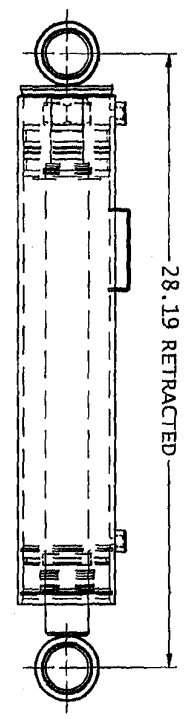
Revision #07/1/3774

Ball Dr	Component	Type	Location	Description	QtyPer UOM	Reference	Effectivlt
01	D	3071000135	M CG05	BARREL WELD "3150"	1.000	PC	-
02	C	3763000143	M CG05	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	NYL 1.50"-12NF NYLON INSERT HEX	1.000	PC	-
07	A	7754000028	P b65	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	-

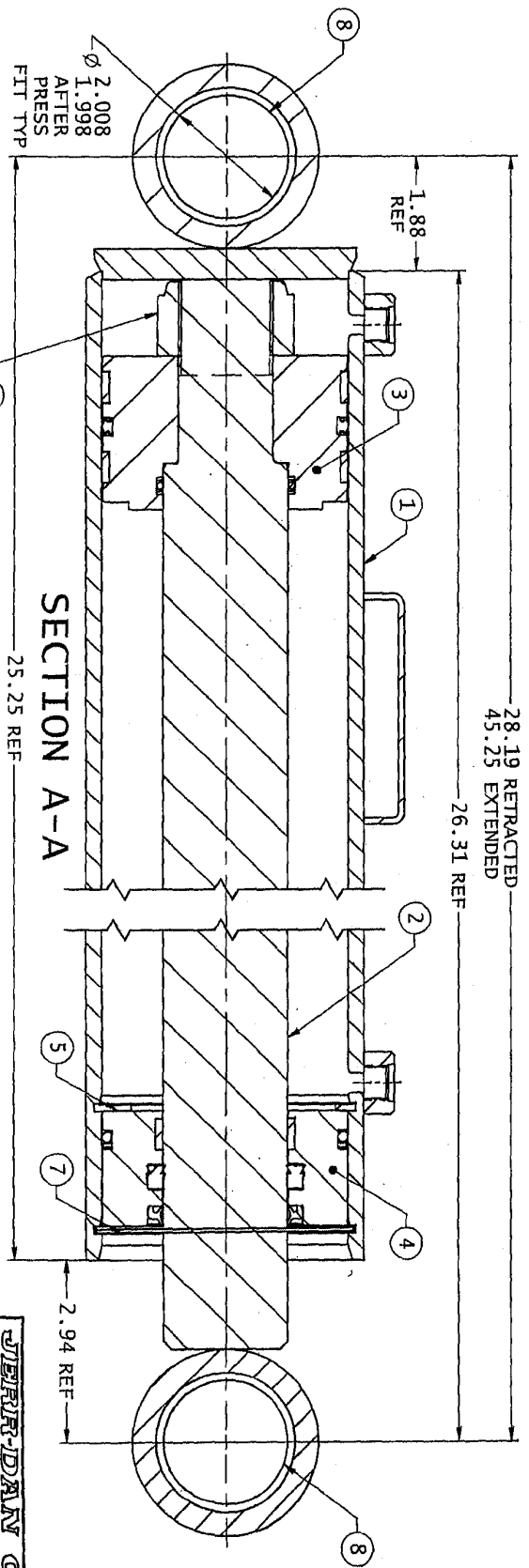
*** End of Item ***
*** End of Report ***

CYLINDER ASSY 4.00/2.00 X 28.19-45.25

DWG NO. 3-320 J00150 0



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



Ø 2.008
1.998
AFTER
PRESS
FIT TYP

SECTION A-A

NOTE:
PLUG PORTS FOR STORAGE

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

DATE	3/6/05	ISS
BY		
DESCRIPTION	REVISION	
1	ORIGINAL	

1	REVISION	DESCRIPTION
2		

MILITARY-DAN GOLF	
3000 RIVERS ROAD GREENSBORO, NC 27225	
DATE	09/28/04
BY	3772
CHK	C 3-320-00015
DATE	09/28/04
BY	3772
CHK	C 3-320-00015



***** 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

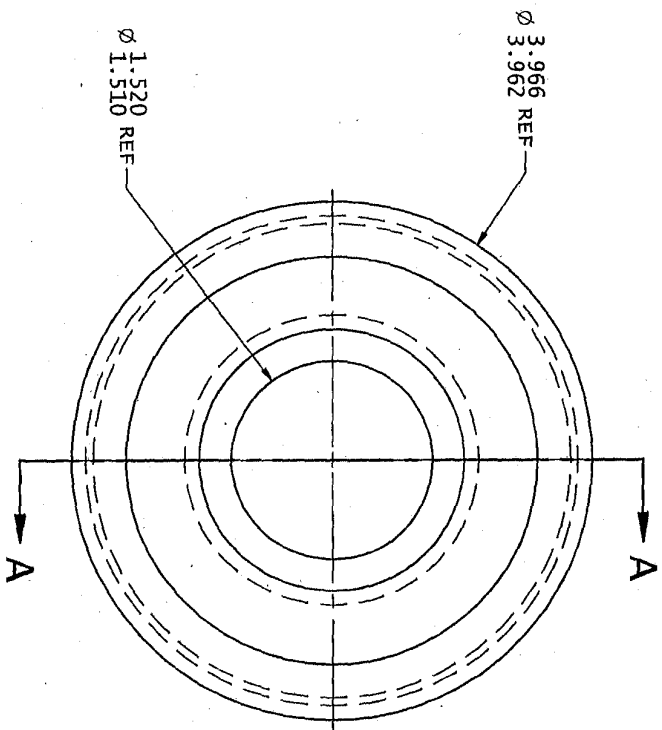
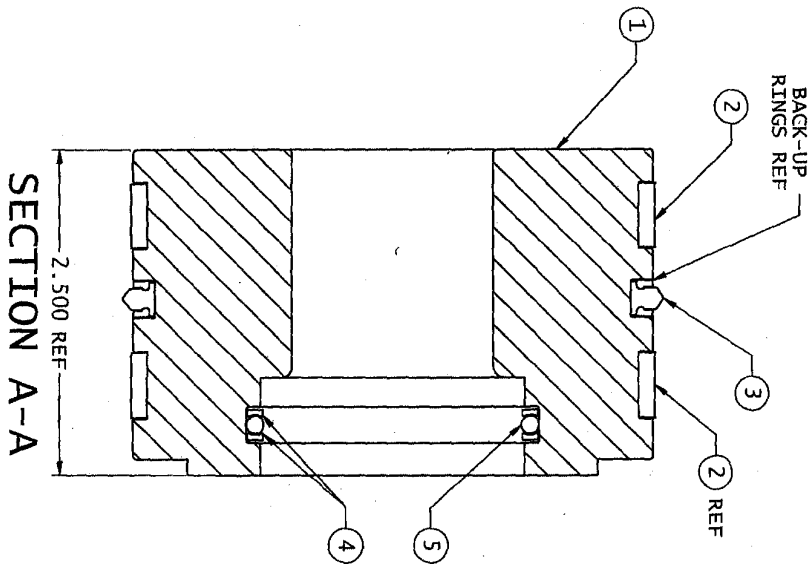
Alternate Route #A215016
Quantity 1
Receive into whse: HYKS
BIN:
Revision #0/0
TOM: PC

Seq	Ball	Dr	Component	Type	Location	Description	QtyPer	UOM	Reference	Effectivity
1	01	B	46980000008	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	77960000065	P		SEAL PISTON LOCKING T 4.00" BORE	1.000	PC		-
4	04	N	77552226609	P		RING BACK-UP PISTON 2.00" ROD	2.000	PC		-
5	05	N	77552226000	P		RING "O" PISTON 2.00" ROD	1.000	PC		-

*** End of Item ***
*** End of Report ***

PISTON ASSY (4.00 BORE CYLINDER)

DWG NO 3-698-0 J0202 REV



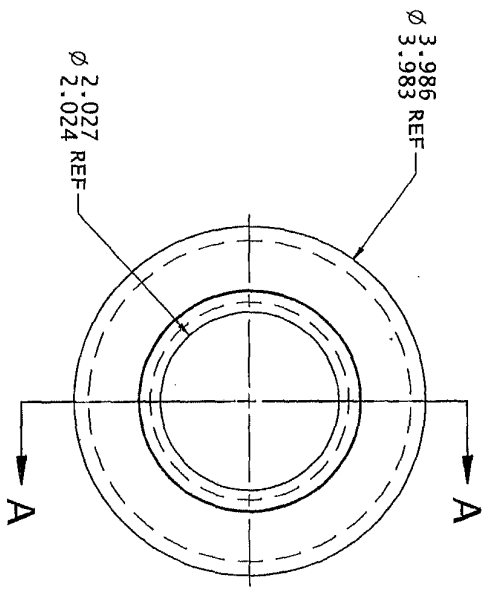
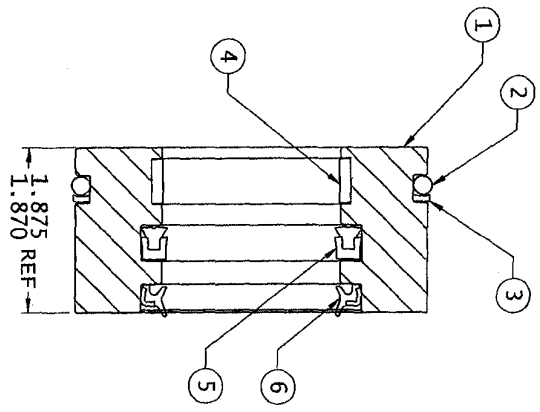
02/18/00	REWORK IN SOLID EDGE (3D/2D)	02/18/00/SIX
REVISION	DESCRIPTION	DATE BY

INSPECTION AND CERTIFICATION:
 THIS DRAWING AND ANY PARTS THEREOF ARE THE PROPERTY OF JEROME DAN CORP. IT IS TO BE USED ONLY FOR THE MANUFACTURE OF THE PARTS SPECIFIED HEREON. 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 JEROME DAN CORP.

JEROME DAN CORP 1800 HINES ROAD GREENVALE, VA 21228	
DATE: 02/09/00	SCALE: 3:2
FORM: 2862	DATE: 02/09/00
DRW: C 3-698-000002	REV: 02
SHEET: 1 OF 1	REV: E 6-00#

HEAD ASSY () BORE CYLINDER

DWG NO 3-553- J012 02 REV



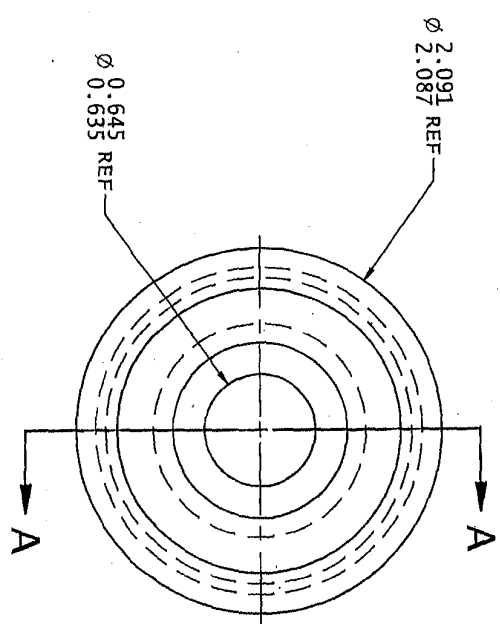
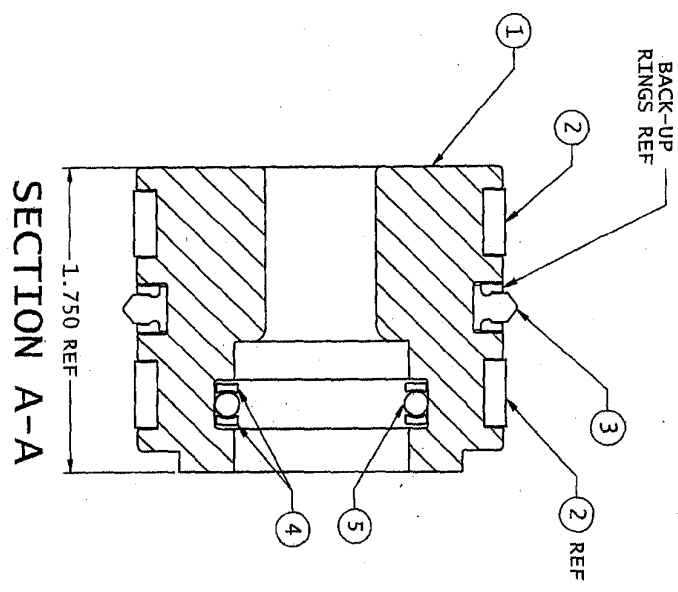
SECTION A-A

DATE	BY	DESCRIPTION
02/11/01	ENR	REWORK IN SOLID EDGE (30/70)
02/11/01	ENR	REWORK IN SOLID EDGE (30/70)

<p>JERRIDAN CORP 1000 WYOMING ROAD GREENSBORO, NC 27225</p>		<p>DATE 2/3/00</p>
<p>THIS IS A WORKING DRAWING. IT IS THE PROPERTY OF JERRIDAN CORP. IT IS TO BE USED ONLY FOR THE PURPOSES SPECIFIED. 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 JERRIDAN CORP.</p>		<p>SCALE 1:1</p>
<p>DO NOT DIMENSION TO THE CENTER OF THE BORE UNLESS SPECIFICALLY NOTED OTHERWISE.</p>		<p>REV 2962</p>
<p>REMOVE ALL BRIMS AND SHARP CORNERS.</p>		<p>DRWN VLM</p>
<p>TOLERANCES UNLESS SPECIFIED ARE:</p>		<p>C 3-553-000012 02</p>
<p>1 FRACTION DEC 0.0005</p>		<p>REV 02</p>
<p>2 DECIMAL DEC 0.005</p>		<p>REV 02</p>
<p>3 MILLIMETER DEC 0.02</p>		<p>REV 02</p>
<p>4 MILLIMETER DEC 0.05</p>		<p>REV 02</p>
<p>5 MILLIMETER DEC 0.10</p>		<p>REV 02</p>
<p>6 MILLIMETER DEC 0.15</p>		<p>REV 02</p>
<p>7 MILLIMETER DEC 0.20</p>		<p>REV 02</p>
<p>8 MILLIMETER DEC 0.25</p>		<p>REV 02</p>
<p>9 MILLIMETER DEC 0.30</p>		<p>REV 02</p>
<p>10 MILLIMETER DEC 0.35</p>		<p>REV 02</p>
<p>11 MILLIMETER DEC 0.40</p>		<p>REV 02</p>
<p>12 MILLIMETER DEC 0.45</p>		<p>REV 02</p>
<p>13 MILLIMETER DEC 0.50</p>		<p>REV 02</p>
<p>14 MILLIMETER DEC 0.55</p>		<p>REV 02</p>
<p>15 MILLIMETER DEC 0.60</p>		<p>REV 02</p>
<p>16 MILLIMETER DEC 0.65</p>		<p>REV 02</p>
<p>17 MILLIMETER DEC 0.70</p>		<p>REV 02</p>
<p>18 MILLIMETER DEC 0.75</p>		<p>REV 02</p>
<p>19 MILLIMETER DEC 0.80</p>		<p>REV 02</p>
<p>20 MILLIMETER DEC 0.85</p>		<p>REV 02</p>
<p>21 MILLIMETER DEC 0.90</p>		<p>REV 02</p>
<p>22 MILLIMETER DEC 0.95</p>		<p>REV 02</p>
<p>23 MILLIMETER DEC 1.00</p>		<p>REV 02</p>
<p>24 MILLIMETER DEC 1.05</p>		<p>REV 02</p>
<p>25 MILLIMETER DEC 1.10</p>		<p>REV 02</p>
<p>26 MILLIMETER DEC 1.15</p>		<p>REV 02</p>
<p>27 MILLIMETER DEC 1.20</p>		<p>REV 02</p>
<p>28 MILLIMETER DEC 1.25</p>		<p>REV 02</p>
<p>29 MILLIMETER DEC 1.30</p>		<p>REV 02</p>
<p>30 MILLIMETER DEC 1.35</p>		<p>REV 02</p>
<p>31 MILLIMETER DEC 1.40</p>		<p>REV 02</p>
<p>32 MILLIMETER DEC 1.45</p>		<p>REV 02</p>
<p>33 MILLIMETER DEC 1.50</p>		<p>REV 02</p>
<p>34 MILLIMETER DEC 1.55</p>		<p>REV 02</p>
<p>35 MILLIMETER DEC 1.60</p>		<p>REV 02</p>
<p>36 MILLIMETER DEC 1.65</p>		<p>REV 02</p>
<p>37 MILLIMETER DEC 1.70</p>		<p>REV 02</p>
<p>38 MILLIMETER DEC 1.75</p>		<p>REV 02</p>
<p>39 MILLIMETER DEC 1.80</p>		<p>REV 02</p>
<p>40 MILLIMETER DEC 1.85</p>		<p>REV 02</p>
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<p>43 MILLIMETER DEC 2.00</p>		<p>REV 02</p>
<p>44 MILLIMETER DEC 2.05</p>		<p>REV 02</p>
<p>45 MILLIMETER DEC 2.10</p>		<p>REV 02</p>
<p>46 MILLIMETER DEC 2.15</p>		<p>REV 02</p>
<p>47 MILLIMETER DEC 2.20</p>		<p>REV 02</p>
<p>48 MILLIMETER DEC 2.25</p>		<p>REV 02</p>
<p>49 MILLIMETER DEC 2.30</p>		<p>REV 02</p>
<p>50 MILLIMETER DEC 2.35</p>		<p>REV 02</p>
<p>51 MILLIMETER DEC 2.40</p>		<p>REV 02</p>
<p>52 MILLIMETER DEC 2.45</p>		<p>REV 02</p>
<p>53 MILLIMETER DEC 2.50</p>		<p>REV 02</p>
<p>54 MILLIMETER DEC 2.55</p>		<p>REV 02</p>
<p>55 MILLIMETER DEC 2.60</p>		<p>REV 02</p>
<p>56 MILLIMETER DEC 2.65</p>		<p>REV 02</p>
<p>57 MILLIMETER DEC 2.70</p>		<p>REV 02</p>
<p>58 MILLIMETER DEC 2.75</p>		<p>REV 02</p>
<p>59 MILLIMETER DEC 2.80</p>		<p>REV 02</p>
<p>60 MILLIMETER DEC 2.85</p>		<p>REV 02</p>
<p>61 MILLIMETER DEC 2.90</p>		<p>REV 02</p>
<p>62 MILLIMETER DEC 2.95</p>		<p>REV 02</p>
<p>63 MILLIMETER DEC 3.00</p>		<p>REV 02</p>
<p>64 MILLIMETER DEC 3.05</p>		<p>REV 02</p>
<p>65 MILLIMETER DEC 3.10</p>		<p>REV 02</p>
<p>66 MILLIMETER DEC 3.15</p>		<p>REV 02</p>
<p>67 MILLIMETER DEC 3.20</p>		<p>REV 02</p>
<p>68 MILLIMETER DEC 3.25</p>		<p>REV 02</p>
<p>69 MILLIMETER DEC 3.30</p>		<p>REV 02</p>
<p>70 MILLIMETER DEC 3.35</p>		<p>REV 02</p>
<p>71 MILLIMETER DEC 3.40</p>		<p>REV 02</p>
<p>72 MILLIMETER DEC 3.45</p>		<p>REV 02</p>
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<p>76 MILLIMETER DEC 3.65</p>		<p>REV 02</p>
<p>77 MILLIMETER DEC 3.70</p>		<p>REV 02</p>
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<p>80 MILLIMETER DEC 3.85</p>		<p>REV 02</p>
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<p>82 MILLIMETER DEC 3.95</p>		<p>REV 02</p>
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<p>84 MILLIMETER DEC 4.05</p>		<p>REV 02</p>
<p>85 MILLIMETER DEC 4.10</p>		<p>REV 02</p>
<p>86 MILLIMETER DEC 4.15</p>		<p>REV 02</p>
<p>87 MILLIMETER DEC 4.20</p>		<p>REV 02</p>
<p>88 MILLIMETER DEC 4.25</p>		<p>REV 02</p>
<p>89 MILLIMETER DEC 4.30</p>		<p>REV 02</p>
<p>90 MILLIMETER DEC 4.35</p>		<p>REV 02</p>
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<p>92 MILLIMETER DEC 4.45</p>		<p>REV 02</p>
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<p>94 MILLIMETER DEC 4.55</p>		<p>REV 02</p>
<p>95 MILLIMETER DEC 4.60</p>		<p>REV 02</p>
<p>96 MILLIMETER DEC 4.65</p>		<p>REV 02</p>
<p>97 MILLIMETER DEC 4.70</p>		<p>REV 02</p>
<p>98 MILLIMETER DEC 4.75</p>		<p>REV 02</p>
<p>99 MILLIMETER DEC 4.80</p>		<p>REV 02</p>
<p>100 MILLIMETER DEC 4.85</p>		<p>REV 02</p>
<p>101 MILLIMETER DEC 4.90</p>		<p>REV 02</p>
<p>102 MILLIMETER DEC 4.95</p>		<p>REV 02</p>
<p>103 MILLIMETER DEC 5.00</p>		<p>REV 02</p>

PISTON ASSY (2.13 BORE CYLINDER)

DWG NO 3-698-00005 01 REV



INSPECTION AND COMPLIANCE INFORMATION:
 THIS DRAWING AND ASSOCIATED PARTS LIST ARE THE PROPERTY OF JERIB-DAN CORP. ANY REPRODUCTION OR TRANSMISSION OF THIS DRAWING OR PARTS LIST WITHOUT THE WRITTEN PERMISSION OF JERIB-DAN CORP. IS PROHIBITED. ACCEPTANCE OF THIS DRAWING OR PARTS LIST BY THE BUYER DOES NOT CONSTITUTE AN ENDORSEMENT OR WARRANTY BY JERIB-DAN CORP.

JERIB-DAN CORP 1800 TOWN ROAD, GREENVILLE, VA 24601	
DATE: 02/10/00 UNIT: INCHES SCALE: 2:1	DRAWN: JLM CHECKED: JLM PART NO: 3-698-000005 REV: 01

01 ALL ITEM REMAIN IN SOLID STATE (30/70)

DATE: 02/10/00

BY: 2

1



**** 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
 Revision #0/0
 From Item: 3553000015
 To Item: 3553000015
 Last Changed Date: 08/11/00

Alternate Route #AZ15025
 Quantity 1
 Receive into whse: HYKS
 BIN: BOM: PC

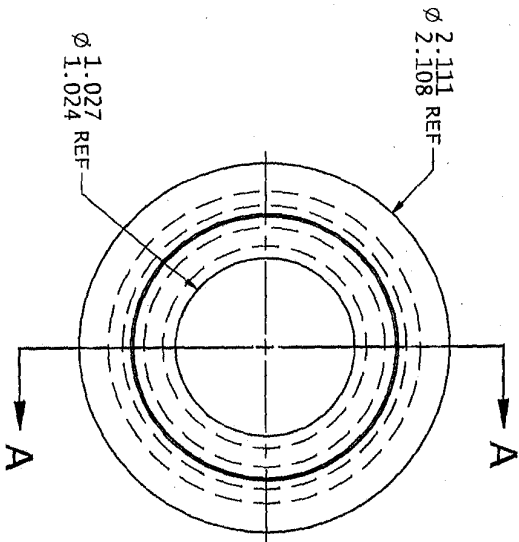
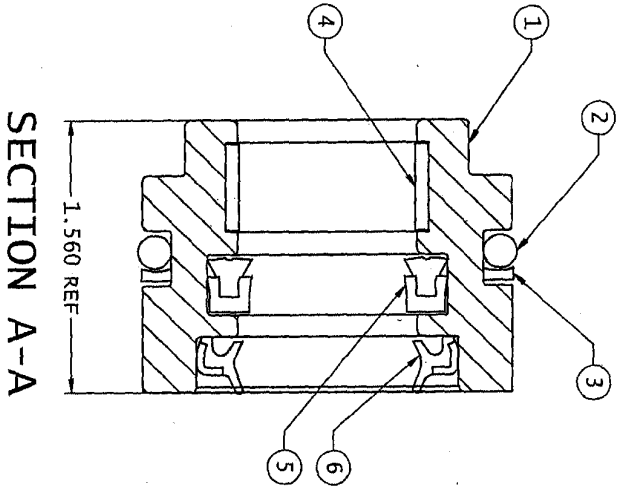
Seq	Ball	Dr	No.	-oon	Sz	Component	Type	Location	Description	QtyPer	UOM	Reference	Effectivity
1	01	C	4553000015				P		HEAD 2.13 BORE X 1.00 ROD X 1.56 LG	1.000	pc		-
2	02	N	7755327000				P		RING "O" HEAD GLAND 2.125" BORE	1.000	pc		-
3	03	A	7755327609				P		RING BACK-UP HEAD GLAND 2.13" BORE	1.000	pc		-
4	04	N	7754000035				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. 3-553-01 REV 15 01



SECTION A-A

DATE	BY	DESCRIPTION
02/08/00	Z	01 ALL DIMS REDRAWN IN SOLID BORE (38720)
02/08/00	Z	REVISION ENH

<p>GENERAL AND CONSTRUCTION</p> <p>THIS DRAWING AND ALL PARTS THEREOF SHALL BE CONSIDERED AS THE PROPERTY OF AIRBORNE COMPONENTS, INC. IT IS HEREBY AGREED THAT THE INFORMATION CONTAINED HEREIN IS TO BE USED ONLY FOR THE PURPOSES SPECIFIED AND IS NOT TO BE DISCLOSED TO ANY OTHER PARTY WITHOUT THE WRITTEN CONSENT OF AIRBORNE COMPONENTS, INC. ACCEPTANCE OF THIS DRAWING CONSTITUTES ACCEPTANCE OF THE SPECIFICATIONS CONTAINED THEREIN.</p>	
<p>TOLERANCES UNLESS OTHERWISE SPECIFIED:</p> <p>1 FRACTIONS TO 0.005 IN. ±0.0005</p> <p>2 DECIMALS TO 0.005 IN. ±0.0005</p> <p>3 ANGLES TO 0.005 IN. ±0.0005</p> <p>4 UNLESS OTHERWISE SPECIFIED</p>	<p>FINISHES AND CONSTRUCTION</p> <p>1 REMOVE ALL BURRS AND SHARP CORNERS.</p> <p>2 PLACE PERC. AS NOTED.</p> <p>3 PERC. TO UNLESS OTHERWISE SPECIFIED.</p>
<p>SCALE: 2:1</p> <p>DATE: 02/08/00</p> <p>DRW. NO.: 3-553-000015</p> <p>REV. NO.: 01</p>	<p>WEIGHT: A 0.768</p> <p>1 OF 1</p>

JERRIDAN CORP.

HEAD ASSY (2.13 BORE CYLINDER)

DATE 02/08/00

SCALE 2:1

DRW. NO. 3-553-000015

REV. NO. 01

WEIGHT A 0.768

1 OF 1

JERRIDAN CORP.

HEAD ASSY (2.13 BORE CYLINDER)

DATE 02/08/00

SCALE 2:1

DRW. NO. 3-553-000015

REV. NO. 01

WEIGHT A 0.768

1 OF 1

JERRIDAN CORP.

HEAD ASSY (2.13 BORE CYLINDER)

DATE 02/08/00

SCALE 2:1

DRW. NO. 3-553-000015

REV. NO. 01

WEIGHT A 0.768

1 OF 1

JERRIDAN CORP.

HEAD ASSY (2.13 BORE CYLINDER)

DATE 02/08/00

SCALE 2:1

DRW. NO. 3-553-000015

REV. NO. 01

WEIGHT A 0.768

1 OF 1

JERRIDAN CORP.



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

** Report Excludes Shrinkage.

Effective as of 07/27/05

Item: 2170000074

BOOM INSTL V/L MANUAL GRID

Reference: D/3834

From Item: 2170000074
 TO Item: 2170000074
 Last Changed Date:

Quantity 1 Receive into whse: HYKS BIN: DOM: PC

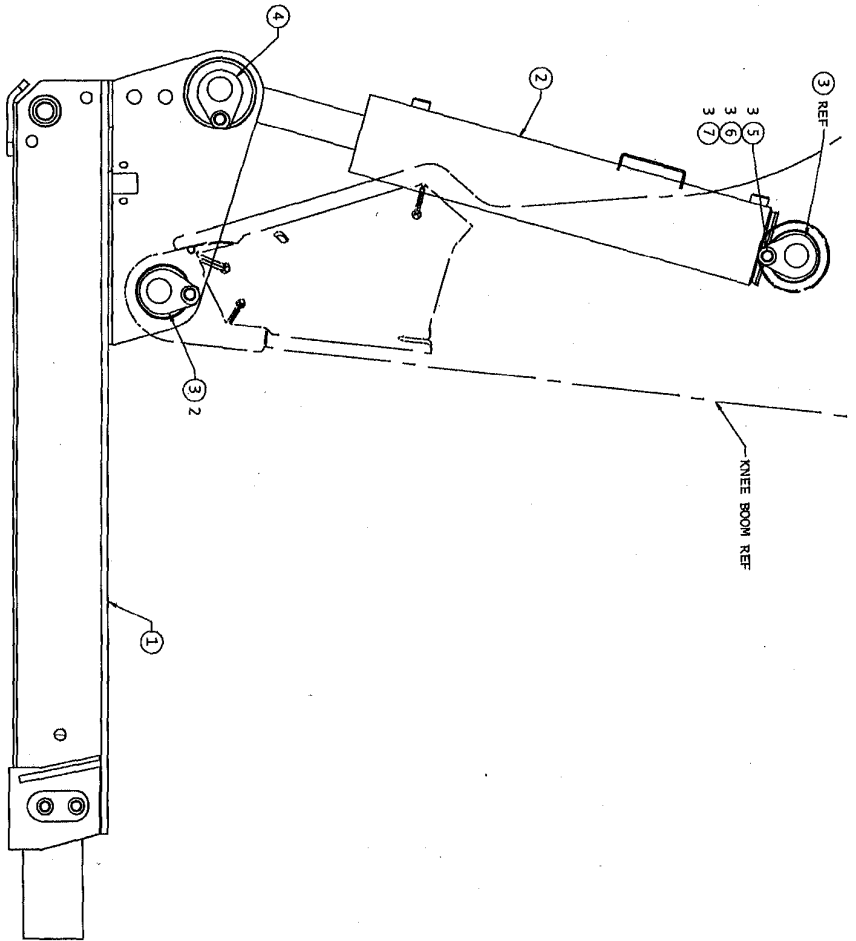
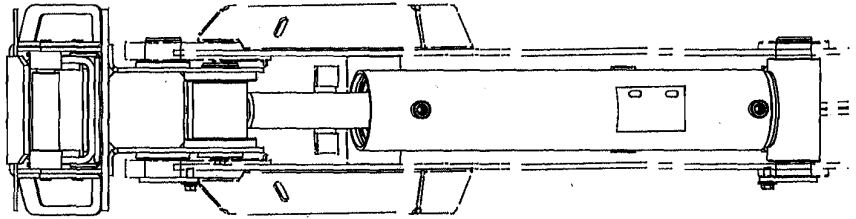
Ball Dr Bln Description QtyPer UOM Reference Effectivity

Ball Dr	Bin	Description	QtyPer	UOM	Reference	Effectivity
01	D	3170000394 M BOOM ASSY U/L MPL-40 MANUAL GRIDS	1.000	PC		-
02	C	3320000150 M WA00 CYLINDER ASSY 4.00/2.00 X 28.19-45.25	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 A97 X01 FLATWASHER .38" NOM WIDE - PLATED	3.000	PC		-
06	N	7115160850 P 000102 a32 X01 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 00



SECTION 1
SECTION 2
SECTION 3
SECTION 4
SECTION 5
SECTION 6
SECTION 7
SECTION 8

<p>GENERAL NOTES</p> <p>1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.</p> <p>2. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.</p> <p>3. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.</p> <p>4. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.</p> <p>5. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.</p> <p>6. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.</p> <p>7. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.</p> <p>8. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.</p> <p>9. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.</p> <p>10. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.</p>	
<p>DATE: 06/27/05</p> <p>BY: [Signature]</p> <p>REV: 00</p>	<p>DATE: 06/27/05</p> <p>BY: [Signature]</p> <p>REV: 00</p>



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

** Report Excludes Shrinkage.
 Effective as of 07/27/05
 Item: 3170000394
 BOOM ASSY U/L MPL-40 MANUAL GRIDS
 Reference: D/3834
 Revision #A/1
 From Item: 3170000394
 To Item: 3170000394
 Last Changed Date: 06/15/05

Quantity	I	Receive into whse: HYKS	Bin:	TOM: PC
----------	---	-------------------------	------	---------

Ball Dr	Bin	Description	QtyPer TOM	Reference	Effectivity
01	D	3170000395 M BOOM WELD U/L BASE MPL MANUAL GRID	1.000	PC 3834	06/14/05-
02	D	3170000393 M 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 030602 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 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 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 x01 WASHER .31" NOM REG LOCK - PLATED	4.000	PC	-
13	A	4679000211 P 020701 d12 d14 PAD 0.50 X 3.00 X 4.75 WEAR	1.000	PC	-
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	-

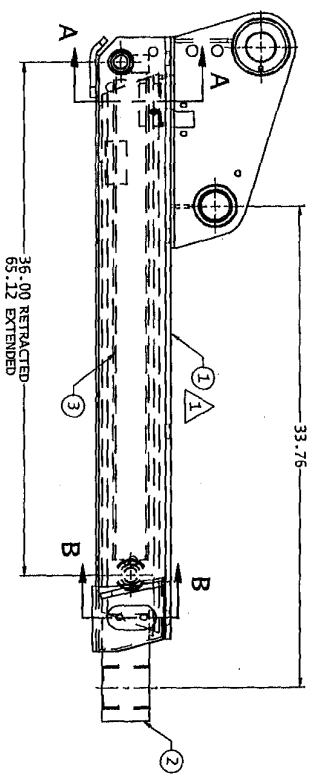
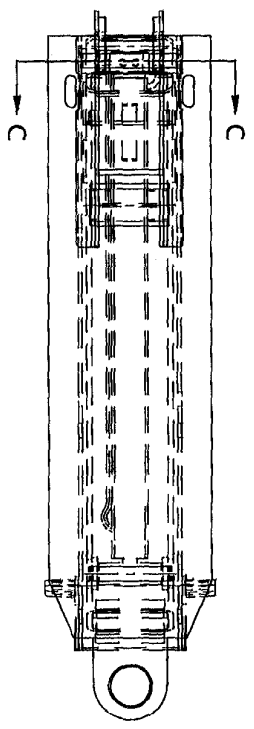
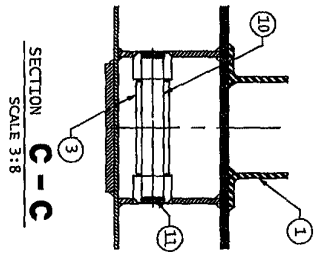
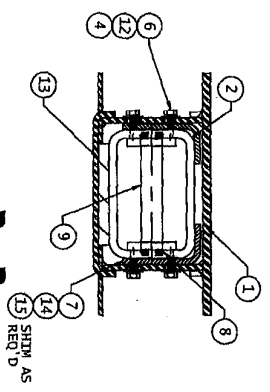
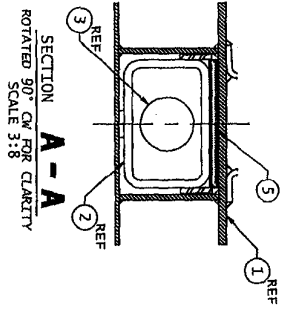
*** End of Item ***

*** End of Report ***

BOOM ASSY U/L MPL MANUAL GRIDS

DWG NO 3-170-000394

REV



NOTE:
BRUSH A LIBERAL COAT OF ANTI-SEIZE COMPOUND
TO ALL PTN & BUSHING METAL TO METAL
CONTACT SURFACES UPON INSTALLATION.

<p>UNIVERSITY MICROFILMS SERIALS ACQUISITION 300 N ZEEB RD ANN ARBOR MI 48106</p>		<p>DATE 07/19/05</p>	
<p>3-170-000394</p>		<p>1</p>	
<p>3-170-000394</p>		<p>1</p>	



** Report Excludes Shrinkage.

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

Effective as of 07/25/05

*Item: 3320000150

CYLINDER ASSY 4.00/2.00 X 28.19-45.25

Reference: C/3774B

From Item: 3320000150

Revision #U/I/3774

To Item: 3320000150

Receive into whse: MYPT

Last Changed Date: 09/28/04

Bin

Quantity 1 Description QtyPer UOM Reference Effectivity

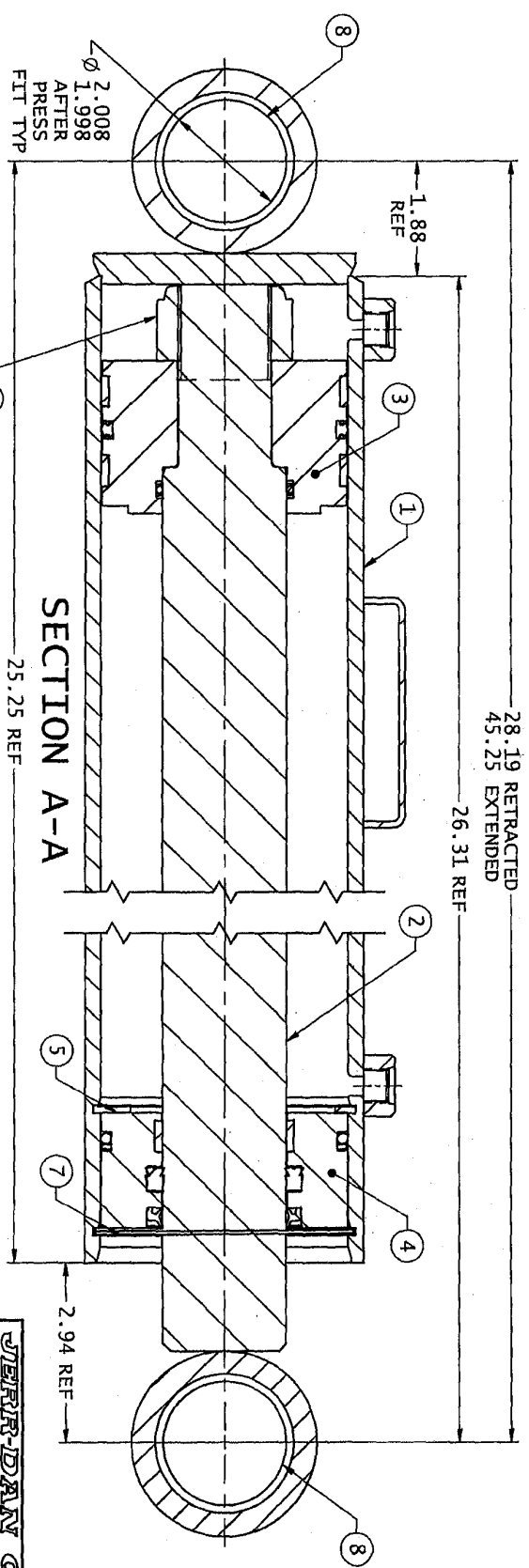
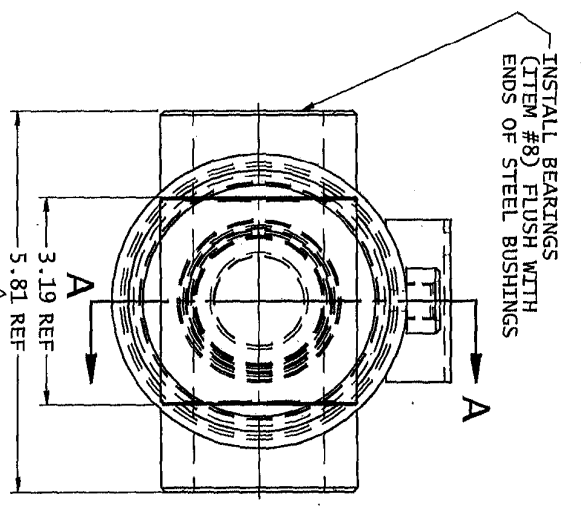
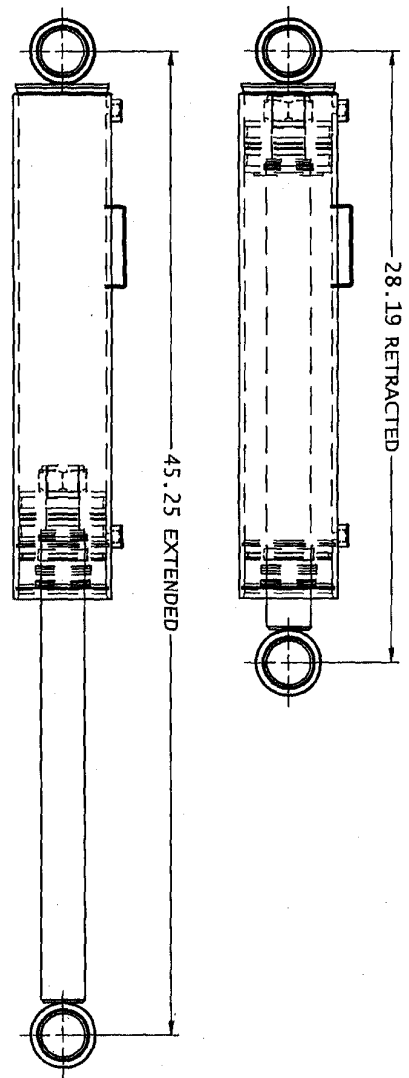
Bin Dr	Component	Type	Location	Description	QtyPer	UOM	Reference	Effectivity
01	D 3071000135	M	CC05	BARREL WELD "3150"	1.000	PC	-	-
02	C 3763000143	M	CC05	ROD WELD "3150"	1.000	PC	-	-
03	B 3698000002	P		PISTON ASSY 4.00 BORE X 2.00 ROD	1.000	PC	-	-
04	B 3553000012	P		HEAD ASSY 4.00 BORE X 2.00 ROD	1.000	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 SMALLLY 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 3-320-0.150 01 REV



NOTE:
PLUG PORTS FOR STORAGE

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

REV	DATE	BY	DESCRIPTION
1	3/1/08	RSK	DESIGN
2	09/28/04	STK	REVISED PER COMMENTS

JERRIDAN CORP
2800 RIVER ROAD, GREENSBORO, VA 22725

ART 1 SEE B/M

DATE 09/28/04

REV 314

REV 377A

REV 3-320-000150 01

1 OF 1

E 68, 09



***** 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

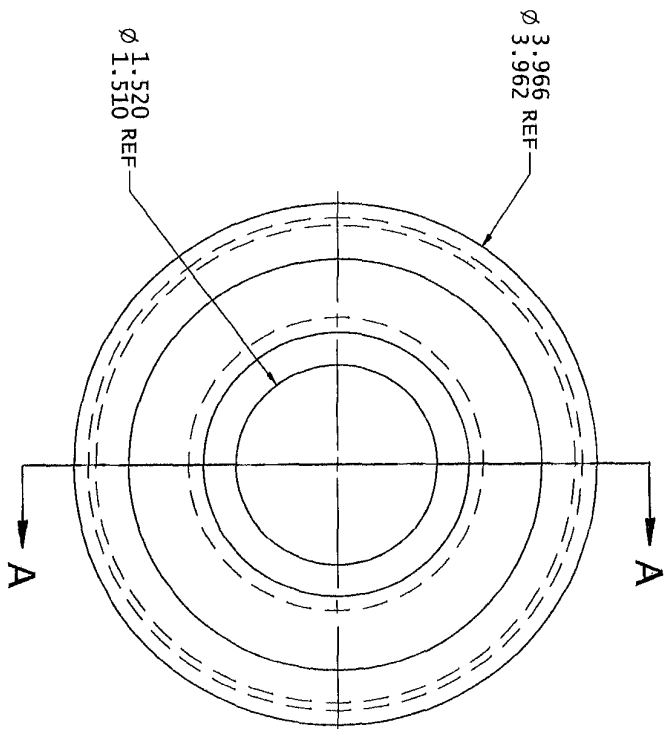
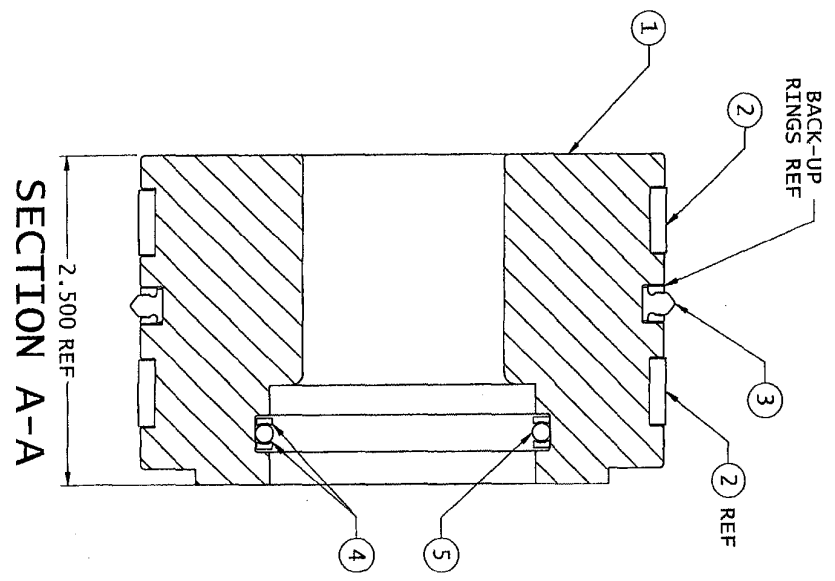
Alternate Route #A215016
Quantity 1
Receive into Whse: HYKS
Revision #0/0
BIN:
UOM: PC

Seq	Ball	Dr	No.	-oon	Sz	Component	Type	Location	Description	QtyPer	UOM	Reference	Effectivity
1	01	B	4698000008				P	I010	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 (1.00 BORE CYLINDER)

DWG NO 3-698-0002 02 REV



REV	DATE	BY	DESCRIPTION
1	02/11/00	SM	REWORK
2	02/11/00	SM	REWORK

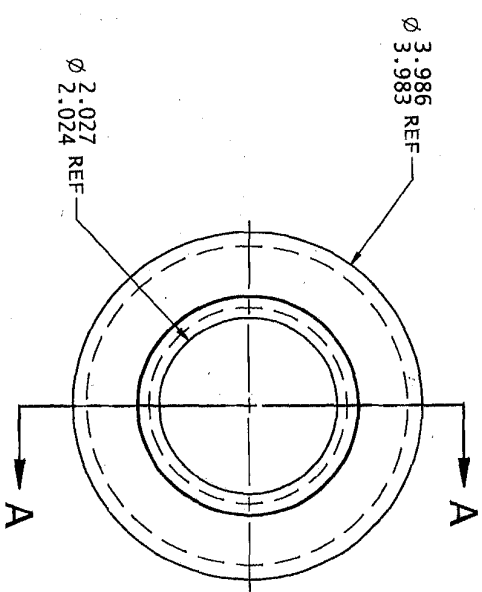
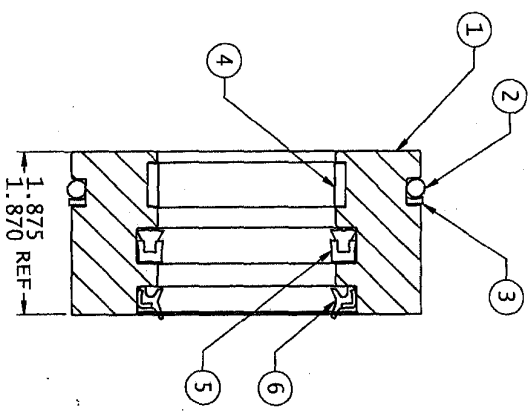
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<p>JERR-DAN CORP 3800 RIVER ROAD GREENCASTLE, VA 22283</p>		<p>DATE 2/9/00</p>
<p>1 OF 1</p>	<p>1</p>	<p>REV 02</p>

1/4/01 - 11/000001-02-01

HEAD ASSY (4.00 BORE CYLINDER)

DWG NO 3-553-00J012 REV 02



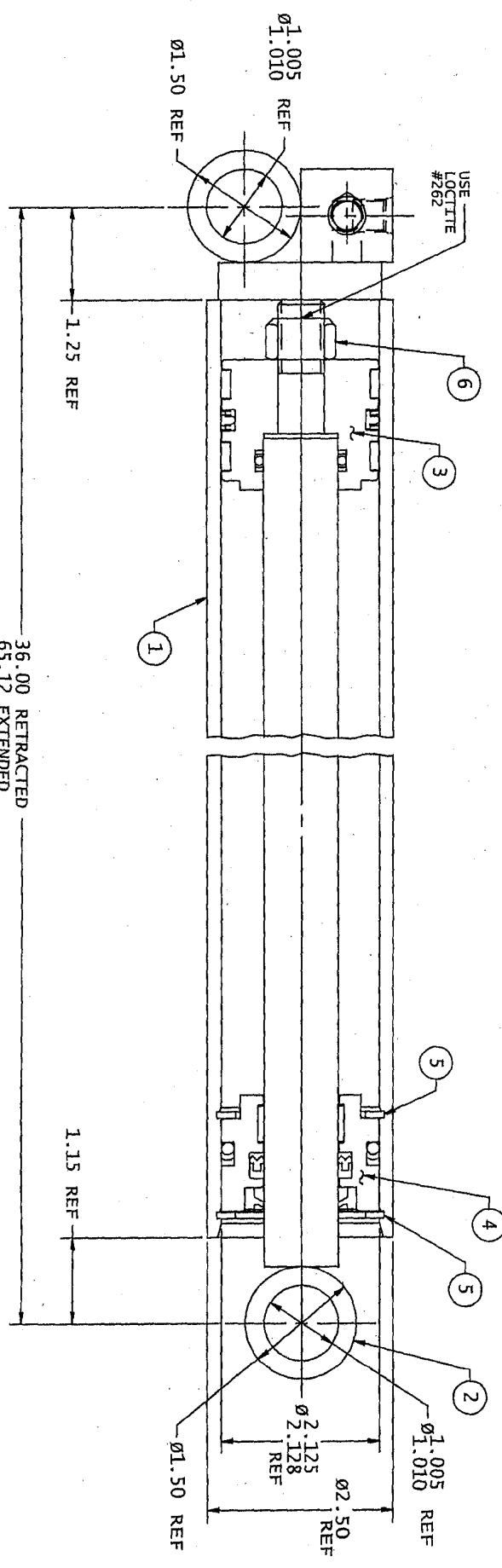
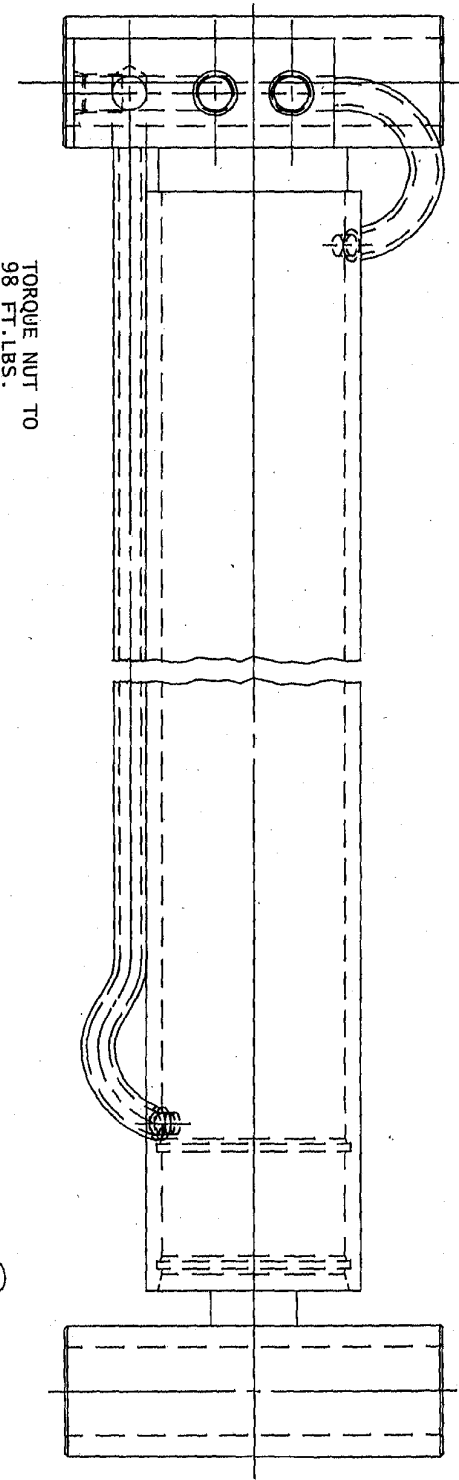
SECTION A-A

<p>JERRIDAN CORP 1000 HYERS ROAD GREENVILLE, TN 37725</p>		<p>SHEET 1 OF 1 WEIGHT A 3.38#</p>	
<p>DATE 02/03/00</p>		<p>SCALE 1:1</p>	
<p>HEAD ASSY (4.00 BORE CYLINDER)</p>		<p>REV 2982</p>	
<p>DATE 02/03/00</p>		<p>DRAWN YJM</p>	
<p>3-553-000012</p>		<p>02</p>	

DO NOT SCALE DRAWING FOR DIMENSIONS. DIMENSIONS SHOWN ON DRAWING TAKE PRECEDENCE OVER ANY DIMENSIONS OBTAINED BY SCALING. DIMENSIONS SHOWN ON DRAWING TAKE PRECEDENCE OVER ANY DIMENSIONS OBTAINED BY SCALING. DIMENSIONS SHOWN ON DRAWING TAKE PRECEDENCE OVER ANY DIMENSIONS OBTAINED BY SCALING.

DATE 12/18/98
REVISED 12/18/98

NOTES
 DO NOT
 BREAK SHARP CORNERS



NOTE:
 PLUG PORTS FOR STORAGE

REV	ENR	DESCRIPTION	DATE	DRN	TRACES (EXCEPT AS NOTED)	DATE	SCALE	ROOM BY	STR
					TITLE: CYLINDER ASSY 2.13/1.00 DATE: 12/27/04 SCALE: 1:1 ROOM BY: STR STR: 3775				
					TITLE: JERRE-DAN CORP. GREENCASTLE, PA. ORIGINAL				
					TRACES (EXCEPT AS NOTED) DATE: 12/27/04 SCALE: 1:1 ROOM BY: STR STR: 3775				
					TITLE: JERRE-DAN CORP. GREENCASTLE, PA. ORIGINAL				
					TRACES (EXCEPT AS NOTED) DATE: 12/27/04 SCALE: 1:1 ROOM BY: STR STR: 3775				
					TITLE: JERRE-DAN CORP. GREENCASTLE, PA. ORIGINAL				

C3-320-000148



***** 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

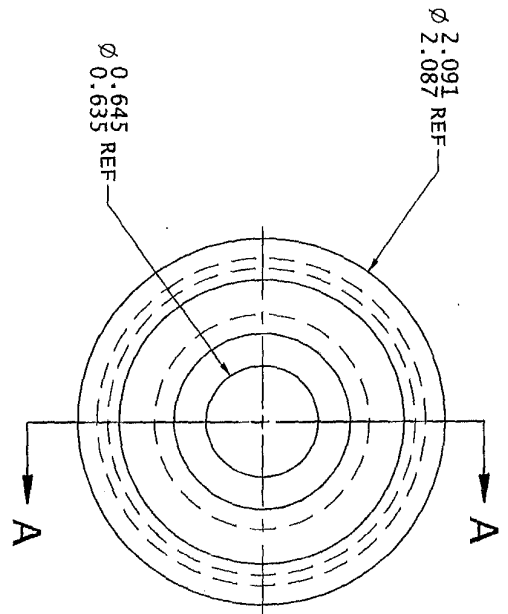
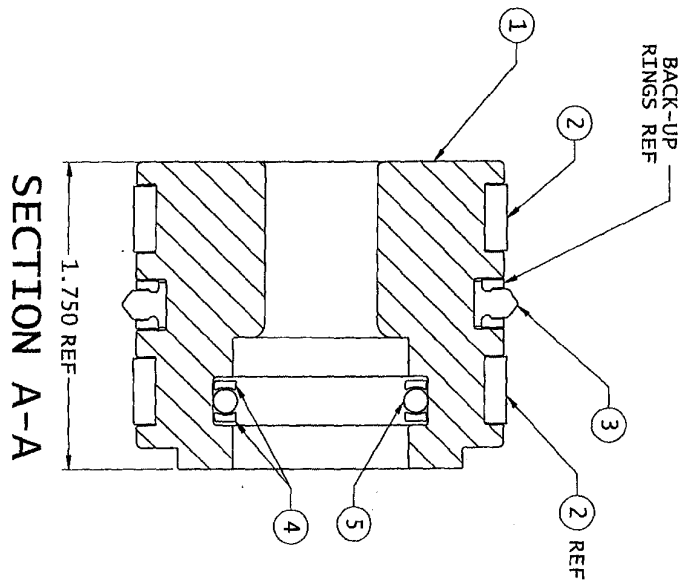
Alternate Route #A215019
Quantity 1
Receive into Whse: HYKS
Revision #A/0
BIN: UOM: PC

Seq	Ball	Dr	No.	oon	Sz	Component	Type	Location	Description	Qty	UOM	Reference	Effectivity
1	01	B	4698000011				P	1010	PISTON 2.13 BORE X 1.00 ROD X 1.75 IG	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 "0" PISTON 1.00" ROD	1.000	pc		-

*** End of Item ***
*** End of Report ***

PISTON ASSY (.13 BORE CYLINDER)

DWG NO 3-698-C REV 005 01



DATE	BY	DESCRIPTION	REV
02/18/04	SK	REWORK	1
07/24/02	SK	REWORK	2
02/18/01	SK	REWORK	3
02/18/00	SK	REWORK	4

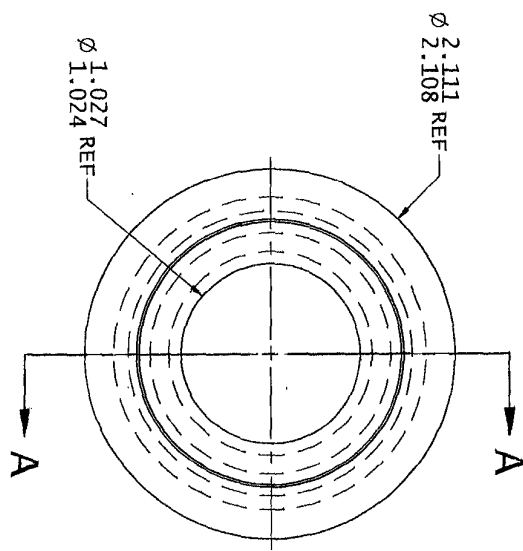
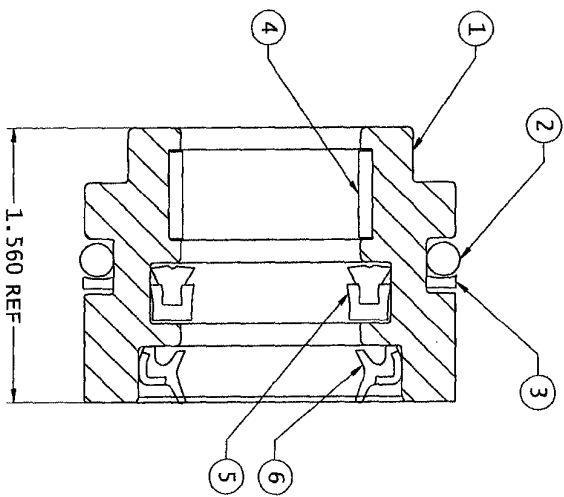
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JERRARDMAN CORP
 2100 RIVERS ROAD
 GREENWICH, VA 22223

TITLE: PISTON ASSY (.13 BORE CYLINDER)
 SCALE: 2:1
 SHEET: 1 OF 1
 DATE: 2/10/00
 DRAWN: VJM
 CHECKED: C
 REV: 005 01

HEAD ASSY (2.13 BORE CYLINDER)

DWG NO 3-553-C 015 01 REV



SECTION A-A

DATE: 02/18/04 BY: [Signature]

DATE: 02/18/04 BY: [Signature]

THIS DRAWING AND SPECIFIC PARTS THEREOF ARE THE PROPERTY OF JERRE-DAN CORPORATION. THIS DRAWING IS TO BE USED ONLY FOR THE MANUFACTURE OF THE PARTS SPECIFIED HEREON. THE BORING AND FINISHING OPERATIONS OF THIS DRAWING ARE TO BE COMPLETED IN ACCORDANCE WITH THE DRAWING SPECIFICATIONS AND THE MANUFACTURING CONDITIONS.

<p>JERRE-DAN CORP 1000 DAVIS ROAD, GREENSBORO, NC 27226</p>	
TITLE	HEAD ASSY (2.13 BORE CYLINDER)
SCALE	2:1
DATE	2/8/00
REV	1
REV	2
REV	3
REV	4
REV	5
REV	6
REV	7
REV	8
REV	9
REV	10
REV	11
REV	12
REV	13
REV	14
REV	15
REV	16
REV	17
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REV	35
REV	36
REV	37
REV	38
REV	39
REV	40
REV	41
REV	42
REV	43
REV	44
REV	45
REV	46
REV	47
REV	48
REV	49
REV	50



** Report Excludes Shrinkage.

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

Effective as of 08/19/05

Item: 3484000069

GRID ASSY NO-LUBE HYD FIXED GRID

Reference: D/3775

From Item: 3484000069
To Item: 3484000069

Last Changed Date: 08/18/05

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

Ball Dr	Component	Type	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 #MSM-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" BSSH 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	47060003497	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
31	A	7274000086	P b17	CLAMP TWIN 0.25 DIA TUBE HALF	4.000	PC	08/11/05-



** Report Excludes Shrinkage.

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

Item: 3484000069 Effective as of 08/19/05

GRID ASSY NO-LUBE HYD FIXED GRID

Reference: D/3775

From Item: 3484000069
To Item: 3484000069

Last Changed Date: 08/18/05

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

Ball Dr	Bin	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 ***

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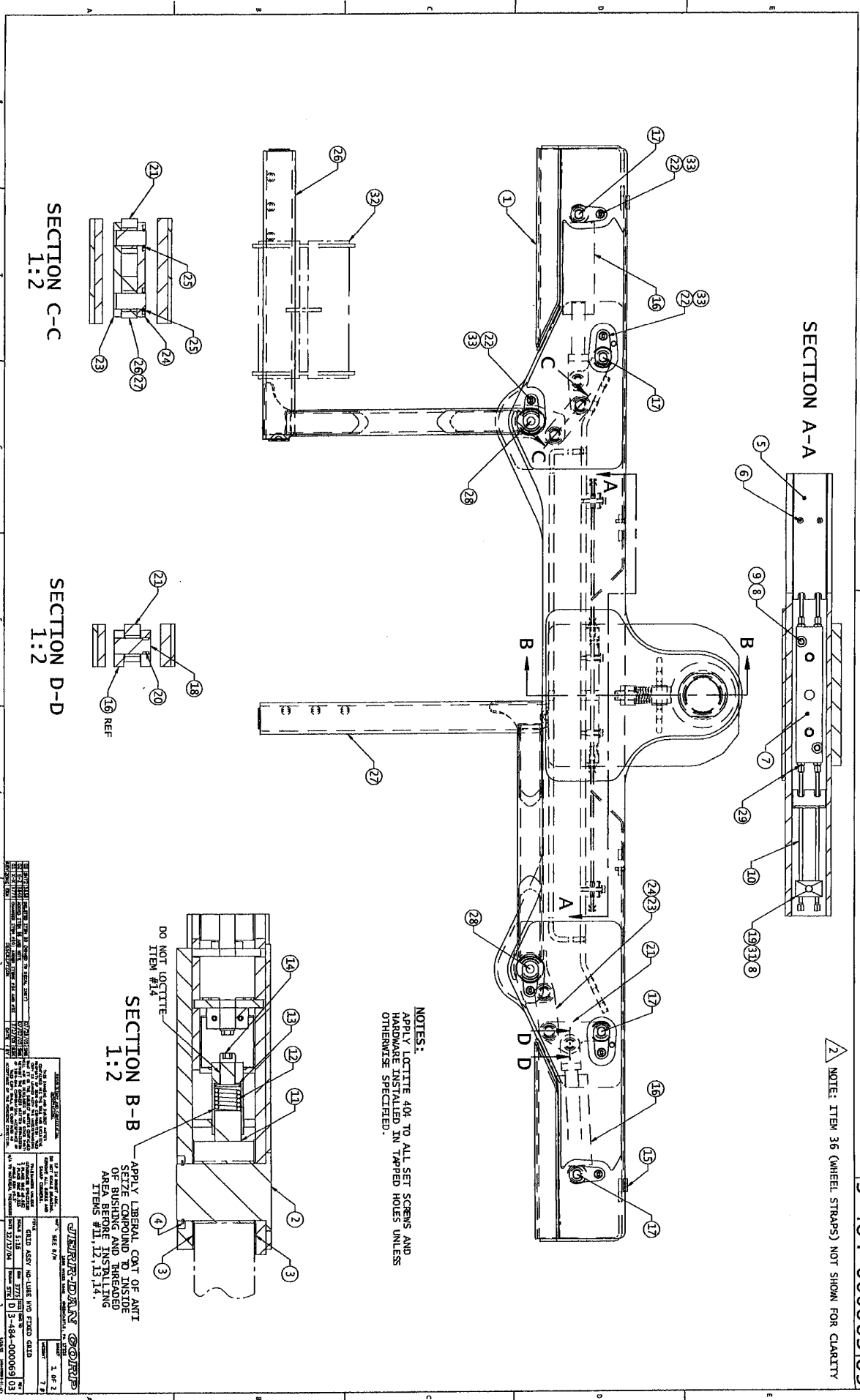
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GRID ASSY NO-LUBE HYD FIXED GRID

REV NO: 3-484-000069 03

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



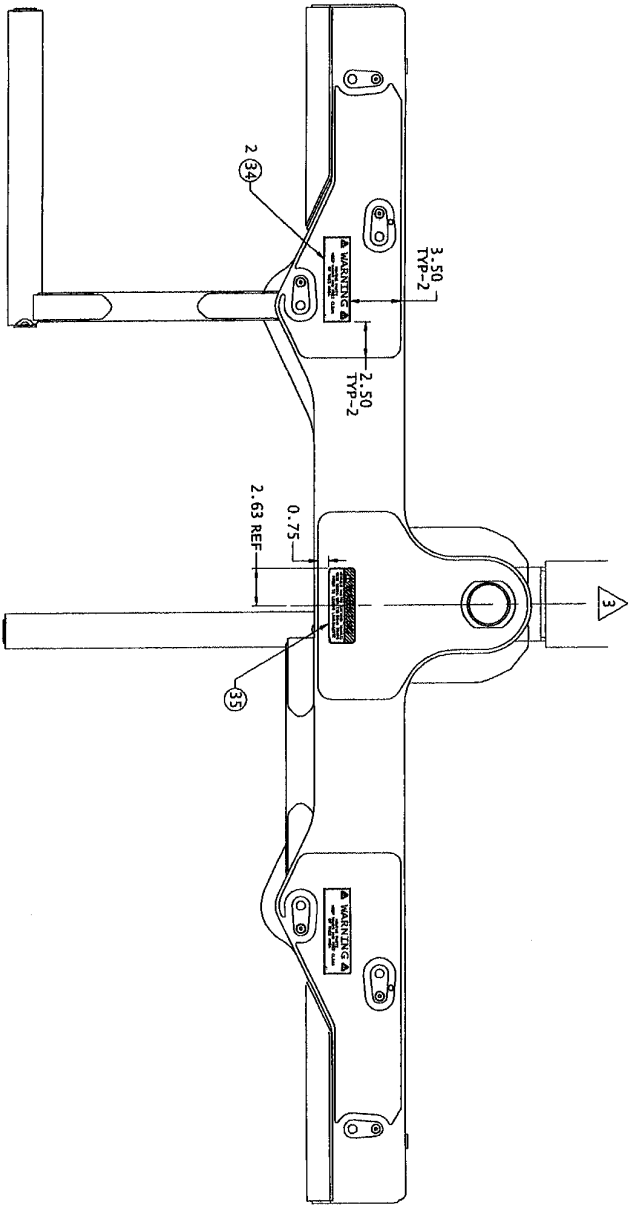
NOTES:
 APPLY LOCTITE 404 TO ALL SET SCREWS AND
 HARDWARE INSTALLED IN TAPPED HOLES UNLESS
 OTHERWISE SPECIFIED.

SECTION B-B
 1:2
 APPLY LIBERAL COAT OF ANTI
 SEIZE COMPOUND TO INSIDE
 OF BUSHING AND THREADED
 AREA BEFORE INSTALLING
 ITEMS #11, 12, 13, 14.
 DO NOT LOCTITE
 ITEM #14

GENERAL INFORMATION		DRAWING INFORMATION		REVISIONS	
ITEM NO.	3-484-000069	REV NO.	03	DATE	20/07/04
DESCRIPTION	GRID ASSY NO-LUBE HYD FIXED GRID	DESIGNED BY	WJZ	APPROVED BY	WJZ
QUANTITY	1	DATE	20/07/04	DATE	20/07/04
UNIT	EA	SCALE	1:1	SCALE	1:1
ASSEMBLY	1 OF 2	SCALE	1:1	SCALE	1:1
DISASSEMBLY	1 OF 2	SCALE	1:1	SCALE	1:1
OPERATION	1 OF 2	SCALE	1:1	SCALE	1:1
INSPECTION	1 OF 2	SCALE	1:1	SCALE	1:1
TESTING	1 OF 2	SCALE	1:1	SCALE	1:1
REWORK	1 OF 2	SCALE	1:1	SCALE	1:1
REPAIR	1 OF 2	SCALE	1:1	SCALE	1:1
DISCARD	1 OF 2	SCALE	1:1	SCALE	1:1
REWORK	1 OF 2	SCALE	1:1	SCALE	1:1
REPAIR	1 OF 2	SCALE	1:1	SCALE	1:1
DISCARD	1 OF 2	SCALE	1:1	SCALE	1:1

GRID ASSY NO-LUBE HYD FIXED GRID

DWG NO 3-484-000069 03 REV



WHEEL GRID DECALS

<p>GENERAL INFORMATION</p> <p>DATE: 04/27/04 DRAWN BY: [unintelligible] CHECKED BY: [unintelligible] APPROVED BY: [unintelligible]</p>							
<p>DESCRIPTION</p> <p>WHEEL GRID DECALS</p>							
<p>QUANTITY</p> <p>2 OF 2</p>							
<p>REVISIONS</p> <table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td>1</td> <td>04/27/04</td> <td>ISSUE FOR PRODUCTION</td> </tr> </table>		NO.	DATE	DESCRIPTION	1	04/27/04	ISSUE FOR PRODUCTION
NO.	DATE	DESCRIPTION					
1	04/27/04	ISSUE FOR PRODUCTION					

A
B
C
D
E
6
7
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1
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8



** Report Excludes Shrinkage.

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

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	Bin	Receive into Whse:	HYKS	Revision #0/0	Bin:	TOM: PC
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Bali Dr	Bin	Description	QtyPer TOM	Reference	Effectivity
01	C	3170000390 M BOOM WELD U/L CROSS TUBE	1.000	PC	-
02	B	46910000427 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 #MSM-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 ml0 n01 STRAP & RATCHET LIGHT DUTY L-ARM	2.000	PC	-

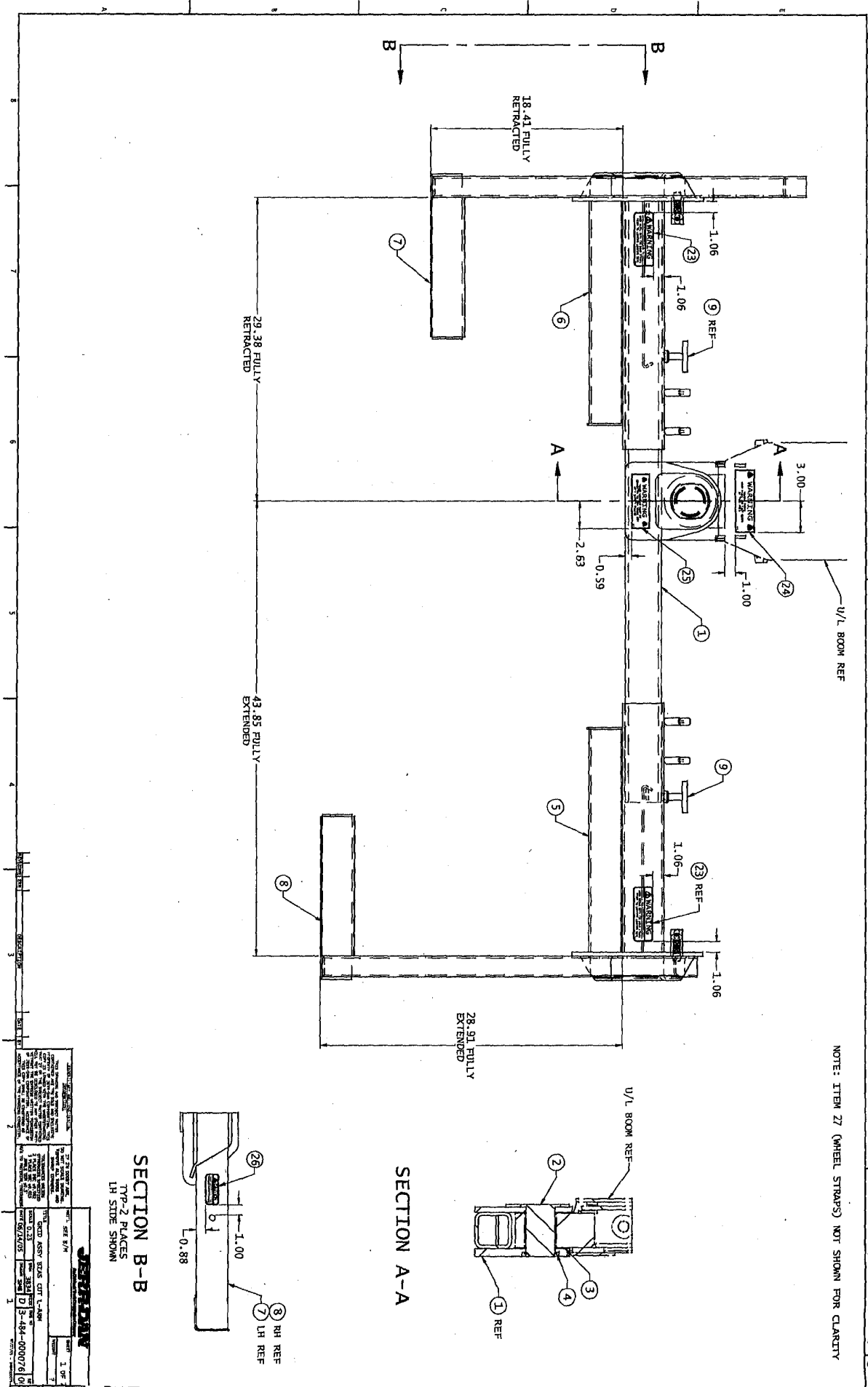
*** End of Item ***

*** End of Report ***

GRID ASSY BIAS CUT L-ARM

3-484-000076 00

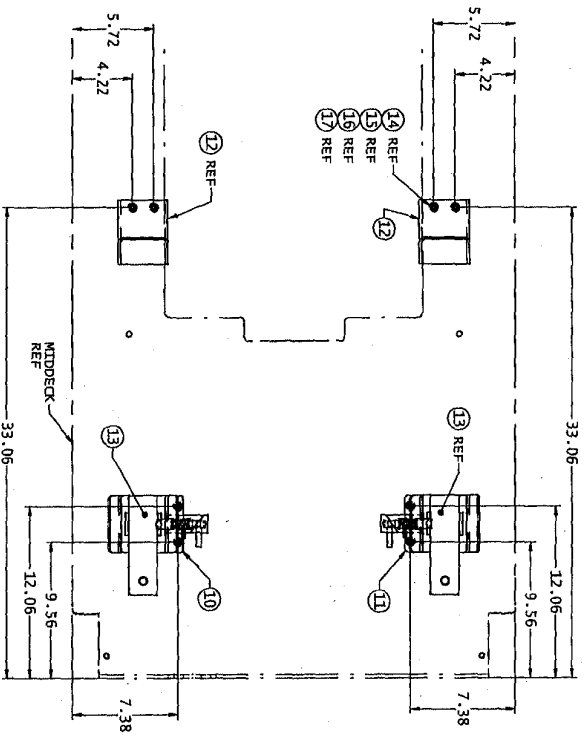
NOTE: ITEM 27 (WHEEL STRAPS) NOT SHOWN FOR CLARITY



GRID ASSY BIAS CUT L-ARM

DRG NO
3-484-000076
REV
00

- NOTE:
1. (FACTORY INSTALLATION - BEFORE INSTALLING MIDDLEDECK) DRILL 0.391 DIA HOLES IN MIDDLEDECK AND INSTALL ITEM 17 (TYP-8 PLACES). LOCATE HOLES PER DIMS SHOWN IN VIEW B-B, OR USE DRILL TEMPLATE PSM605060201
 2. BOND ITEM 13 TO ITEM 10 & 11
 3. ASSEMBLE ITEM 19 (CAM LOCK PIN) WITH THE QUAMBER, RACKING 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 LOCITE TO ITEM 21 (PIN) AND TIGHTEN SECURELY

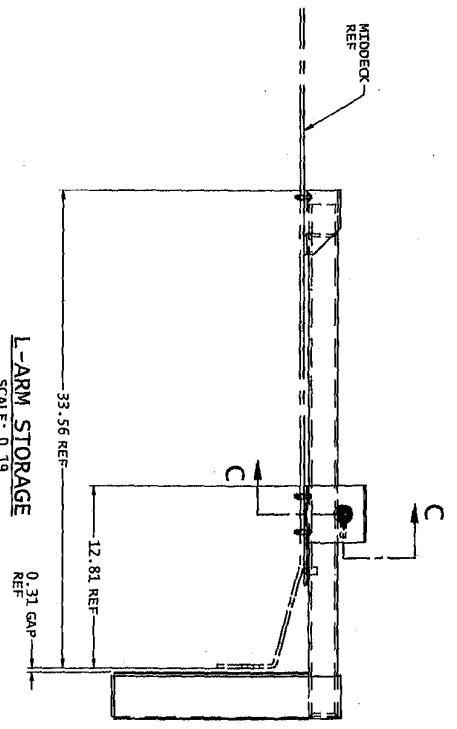
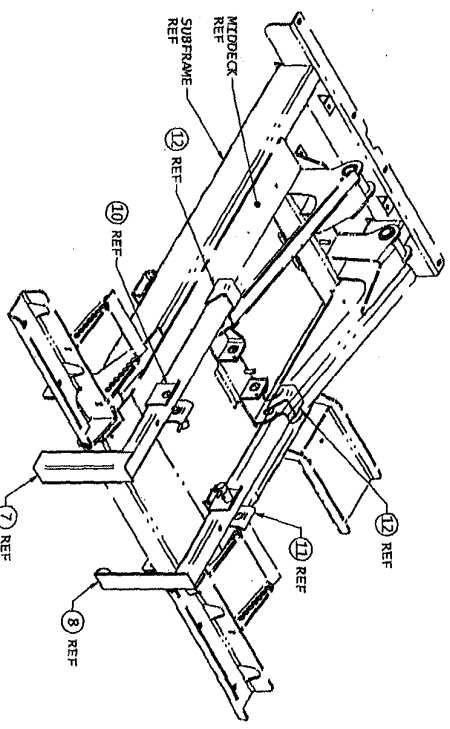


TOP VIEW

ITEMS 7 & 8 NOT SHOWN FOR CLARITY

AUX VIEW

SCALE: 0.12



L-ARM STORAGE

SCALE: 0.19

SECTION C-C

SCALE: 0.30

REVISIONS	
NO.	DESCRIPTION
1	ISSUED FOR CONSTRUCTION
2	REVISED TO REFLECT CHANGES
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49	REVISED TO REFLECT CHANGES
50	REVISED TO REFLECT CHANGES



** Report Excludes Shrinkage.

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

Effective as of 07/29/05
Item: 3484000077

GRID ASSY T-37 MANUAL PIVOTING
Reference: D/3834
From Item: 3484000077
To Item: 3484000077
Last Changed Date:

Quantity	Bin	Receive into Whse:	HYKS	Revision: #07/0	DOM: PC
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Ball Dr	Component	Type	Location	Description	QtyPer	UOM	Reference	Effectivity
01	C	3170000390	M	BOOM WELD U/L CROSS TUBE	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 RBPS 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	C09 F02 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		

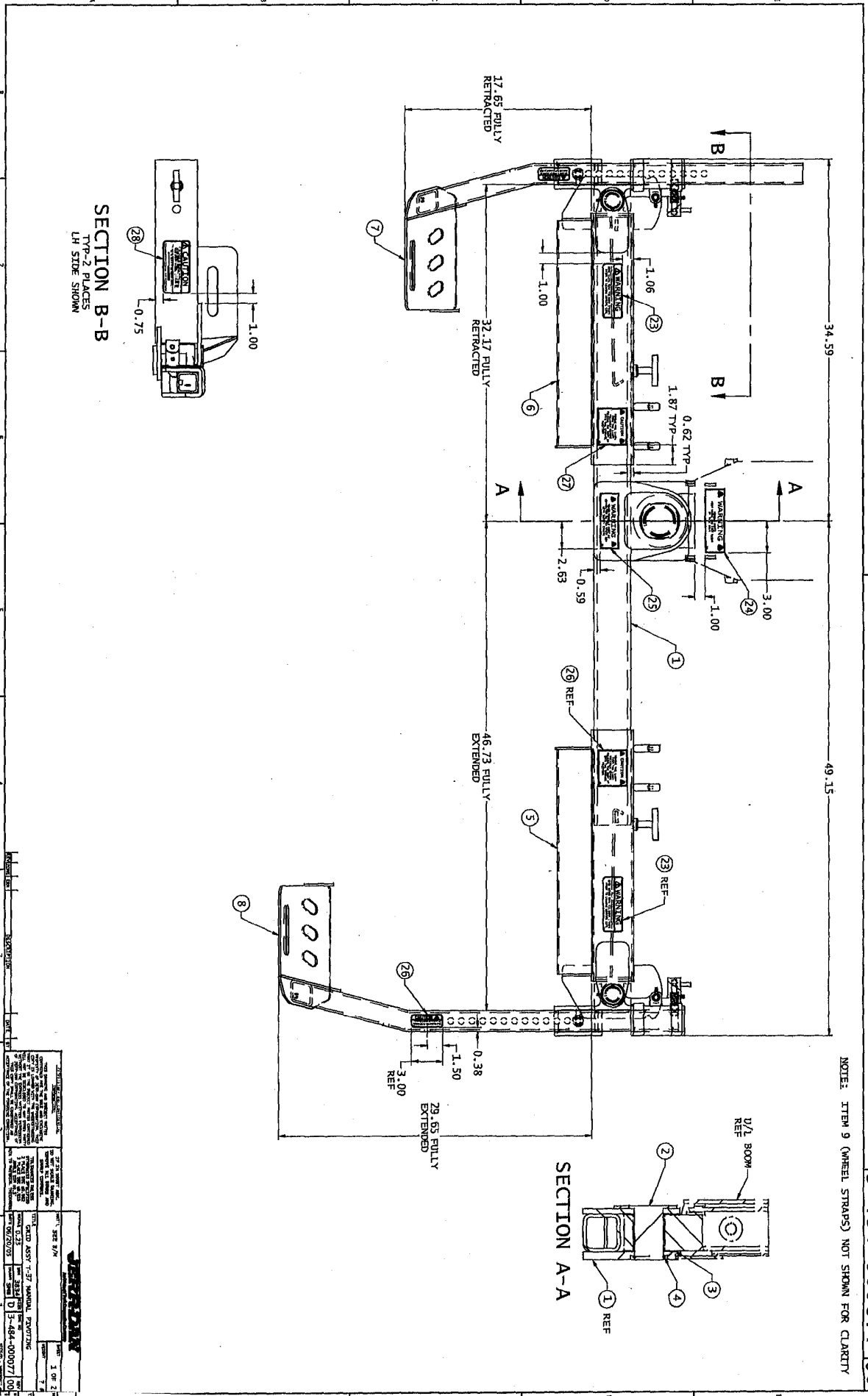
*** End of Item ***

*** End of Report ***

GRID ASSY T-37 MANUAL PIVOTING

DWG NO
3-484-000077
 REV

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

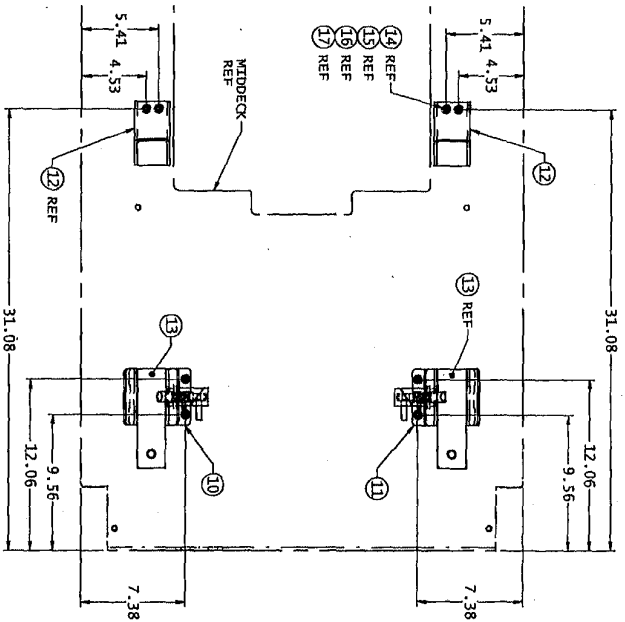


GRID ASSY T-37 MANUAL PIVOTING

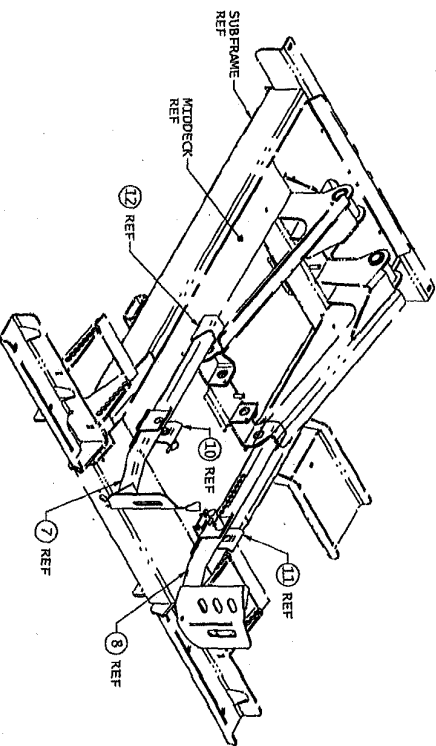
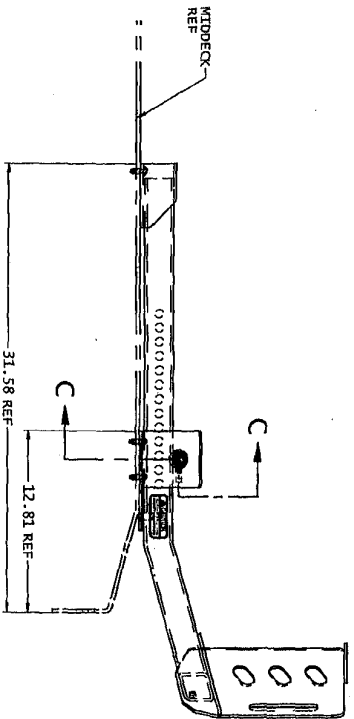
DWG NO
3-484-000077 00
REV

NOTE:

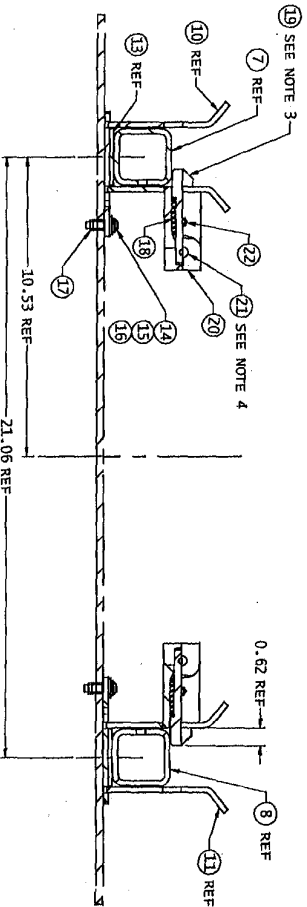
1. (FACTORY INSTALLATION - BEFORE INSTALLING MIDDECK)
DRILL 0.391 DIA HOLES IN MIDDECK AND INSTALL ITEM 17 (TOP-8 PLACES)
LOCATE HOLES PER DIMS SHOWN IN VIEW B-B, OR USE DRILL TEMPLATE PSM805060201
2. BOND ITEM 13 TO ITEM 10 & 11
3. ASSEMBLE ITEM 19 (CAM LOCK PIN) WITH THE CHAMFER FACING UP WHEN IN THE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

REVISIONS

NO.	DATE	BY	CHKD	DESCRIPTION
1	06/20/05	D-3	D-3	ISSUED FOR PRODUCTION
2	06/20/05	D-3	D-3	ISSUED FOR PRODUCTION

DATE	06/20/05
BY	D-3
CHKD	D-3
DESCRIPTION	ISSUED FOR PRODUCTION

DATE	06/20/05
BY	D-3
CHKD	D-3
DESCRIPTION	ISSUED FOR PRODUCTION

DATE	06/20/05
BY	D-3
CHKD	D-3
DESCRIPTION	ISSUED FOR PRODUCTION

DATE	06/20/05
BY	D-3
CHKD	D-3
DESCRIPTION	ISSUED FOR PRODUCTION

DATE	06/20/05
BY	D-3
CHKD	D-3
DESCRIPTION	ISSUED FOR PRODUCTION

DATE	06/20/05
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DESCRIPTION	ISSUED FOR PRODUCTION

DATE	06/20/05
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DATE	06/20/05
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BY	D-3
CHKD	D-3
DESCRIPTION	ISSUED FOR PRODUCTION

DATE	06/20/05
BY	D-3
CHKD	D-3
DESCRIPTION	ISSUED FOR PRODUCTION

DATE	06/20/05
BY	D-3
CHKD	D-3
DESCRIPTION	ISSUED FOR PRODUCTION

DATE	06/20/05
BY	D-3
CHKD	D-3



** Report Excludes Shrinkage.

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

Effective as of 07/29/05

Item: 3509530098

HYD GRID HLF INST MPL-40

Reference: D/3774B

From Item: 3509530098
To Item: 3509530098
Last Changed Date:

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

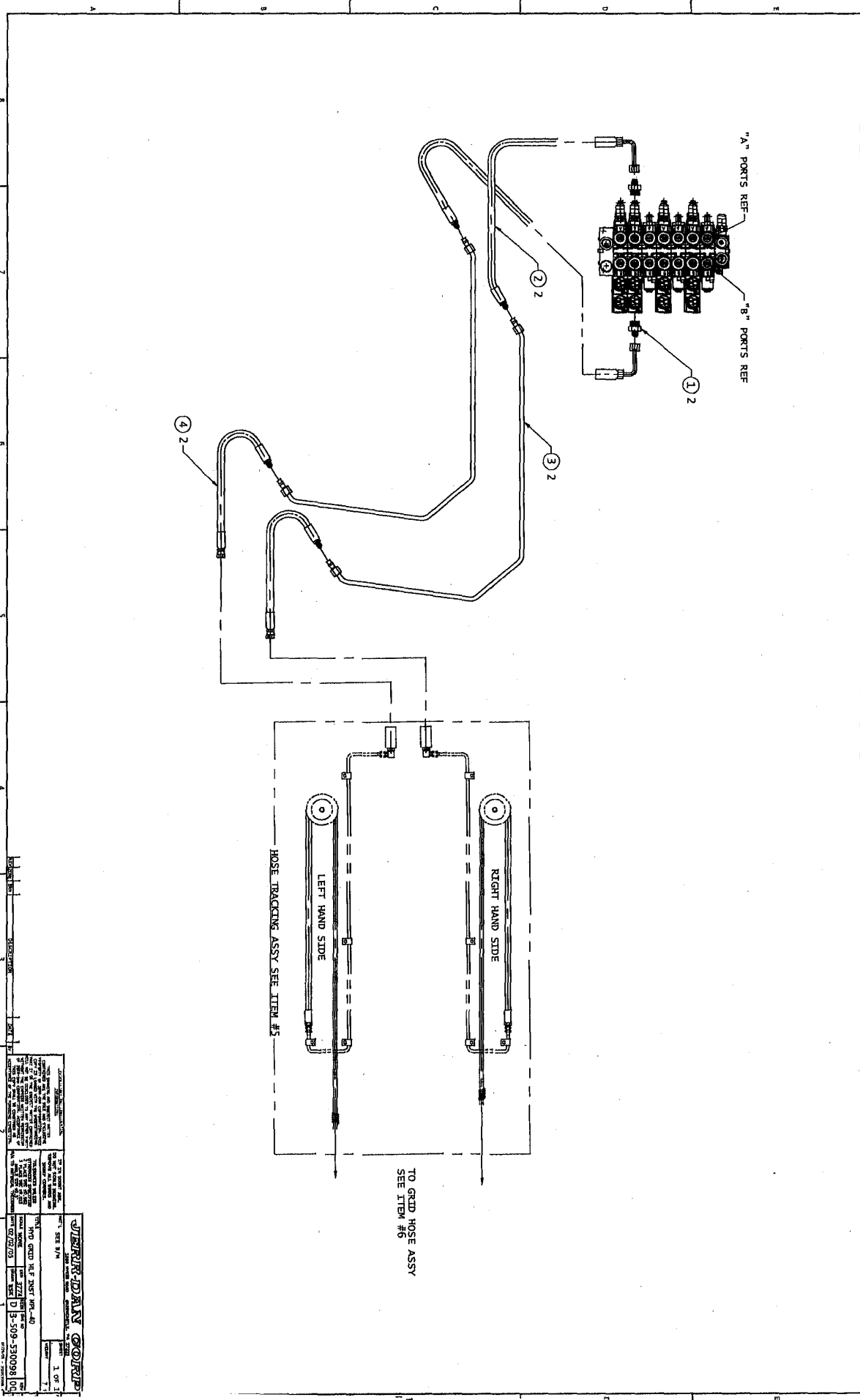
Ball Dr	Component	Type	Location	Description	QtyPer UOM	Reference	Effectivity
01	7445060843	P	040303 b07 b43	ADAPTER #6JTC(M) X #8"O" (M) STR	2.000 PC		-
02	N 4569123054	M	WA02	HOSE .38 X 54 #6 ST(M) - #6 L90(FSW)	2.000 PC		-
03	C 7912000202	P	K-floor	TUBE ASSY 0.38 OD X 0.049W X 112.25	2.000 PC		-
04	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 00
REV



<p>GENERAL INFORMATION</p> <p>DATE: 02/21/03</p> <p>BY: [Signature]</p> <p>CHKD: [Signature]</p> <p>APP'D: [Signature]</p>		<p>REVISIONS</p> <p>NO. 1</p> <p>DATE: 02/21/03</p> <p>DESCRIPTION: [Blank]</p>	
<p>DESIGNER</p> <p>NAME: [Blank]</p> <p>NO. 1 OF 1</p>		<p>PROJECT</p> <p>NO. 3-509-530098</p> <p>REV. 00</p>	

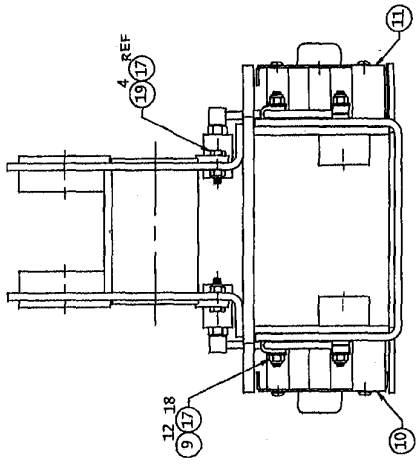
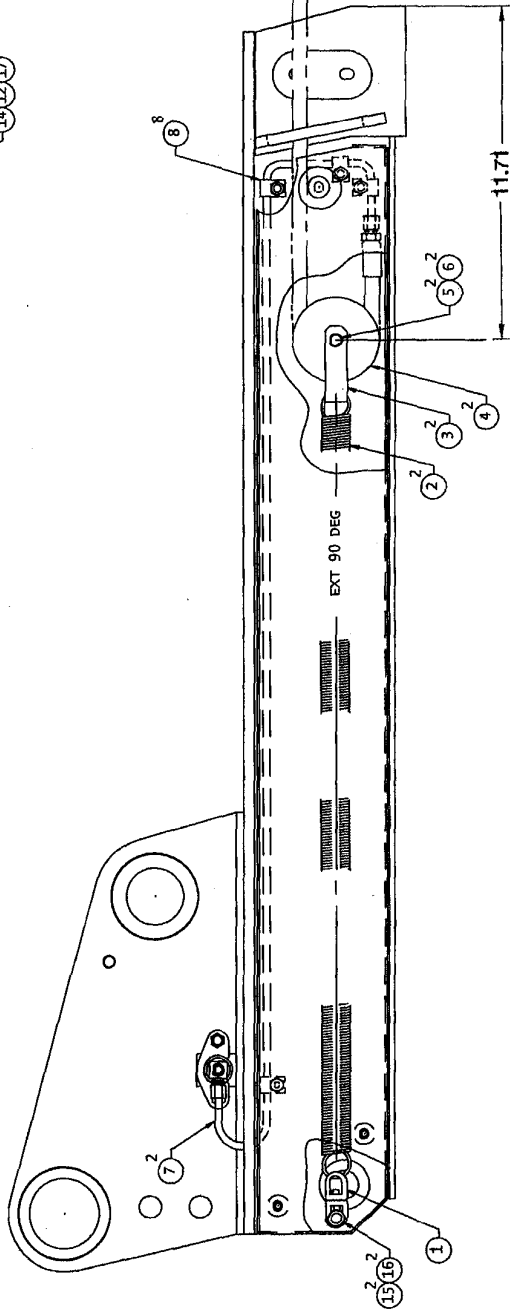
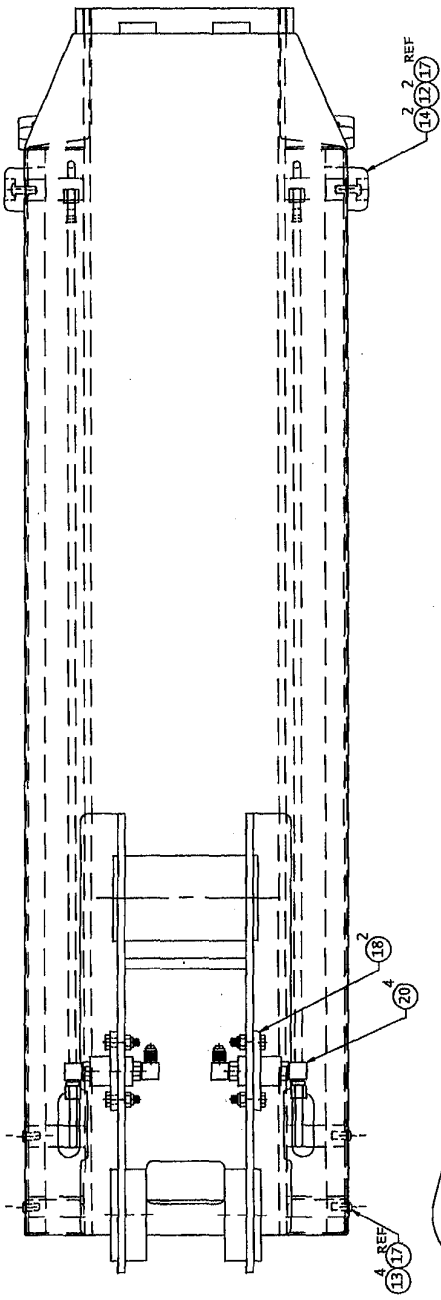
** Report Excludes Shrinkage. Effective as of 07/29/05
 Item: 3509870046
 ***** Engineering Bill of Materials *****
 UNDERLIFT ASSY HOSE TRACKING
 Reference: D/3627
 Revision #07/1/3666
 From Item: 3509870046
 To Item: 3509870046
 Last Changed Date:

Quantity 1 Receive into Whse: MYPT BIN: WA00 UOM: PC

Ball Dr	Component	Type	Location	Description	QtyPer	UOM	Reference	Effectivity
01	A	7592000004	P 102405 a07	LINK SWIVEL #S0128-0004	2.000	PC	-	-
02	B	7843000031	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	7691000040	P a07	PIN CLEVIS 0.38 DIA X 1.50 LG	2.000	PC	-	-
06	A	7691000042	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	7274000073	P 102405 b19	HOSE CLAMP 0.25 DIA	8.000	PC	-	-
09	N	7660142604	P 000102 a03	LOCKNUT .25"-20NC NYLON 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	7189000019	P 102306 a05	BUMPER RUBBER 1.50 X DAI BOLT-ON	2.000	PC	-	-
15	N	7950160153	P 000108	FLAP 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	3619000001	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
 DIMENSIONS IN PARENTHESES
 DENOTES "CRITICAL"
 DIMENSIONS TO BE CONTROLLED BY
 STATISTICAL ANALYSIS



CROSSTUBE STOP NOT SHOWN IN THIS VIEW FOR CLARITY

REV	BY	DATE	DESCRIPTION
1	2868	10/27/03	FACTURE CHANGE TO BASE BOON
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

DESIGNED BY	1328 JES	DATE	12/27/02
CHECKED BY		DATE	
APPROVED BY		DATE	
SCALE	1:1	PROJECT NO.	13-509-870046
DRAWN BY		WORK CENTER	BASE BOON
DATE	9/2/03	WORK CENTER	BASE BOON
REV		DATE	
DESCRIPTION			

DESIGNED BY	GREENCASTLE, PA.
DATE	12/27/02
SCALE	1:1
PROJECT NO.	13-509-870046
WORK CENTER	BASE BOON
WORK CENTER	BASE BOON
DATE	9/2/03
WORK CENTER	BASE BOON
WORK CENTER	BASE BOON
DATE	
DESCRIPTION	

VERB-DAILY GROUP
 GREENCASTLE, PA.
 13-509-870046
 BASE BOON
 9/2/03
 D3-509-870046



** Report Excludes Shrinkage.

Effective as of 07/29/05

Item: 3509530061

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

HYDRAULIC SCHEMATIC GRID

Reference: D/3653

From Item: 3509530061
To Item: 3509530061

Last Changed Date:

Quantity 1 Receive into Whse: MYPT BIN: WA00 TUM: PC

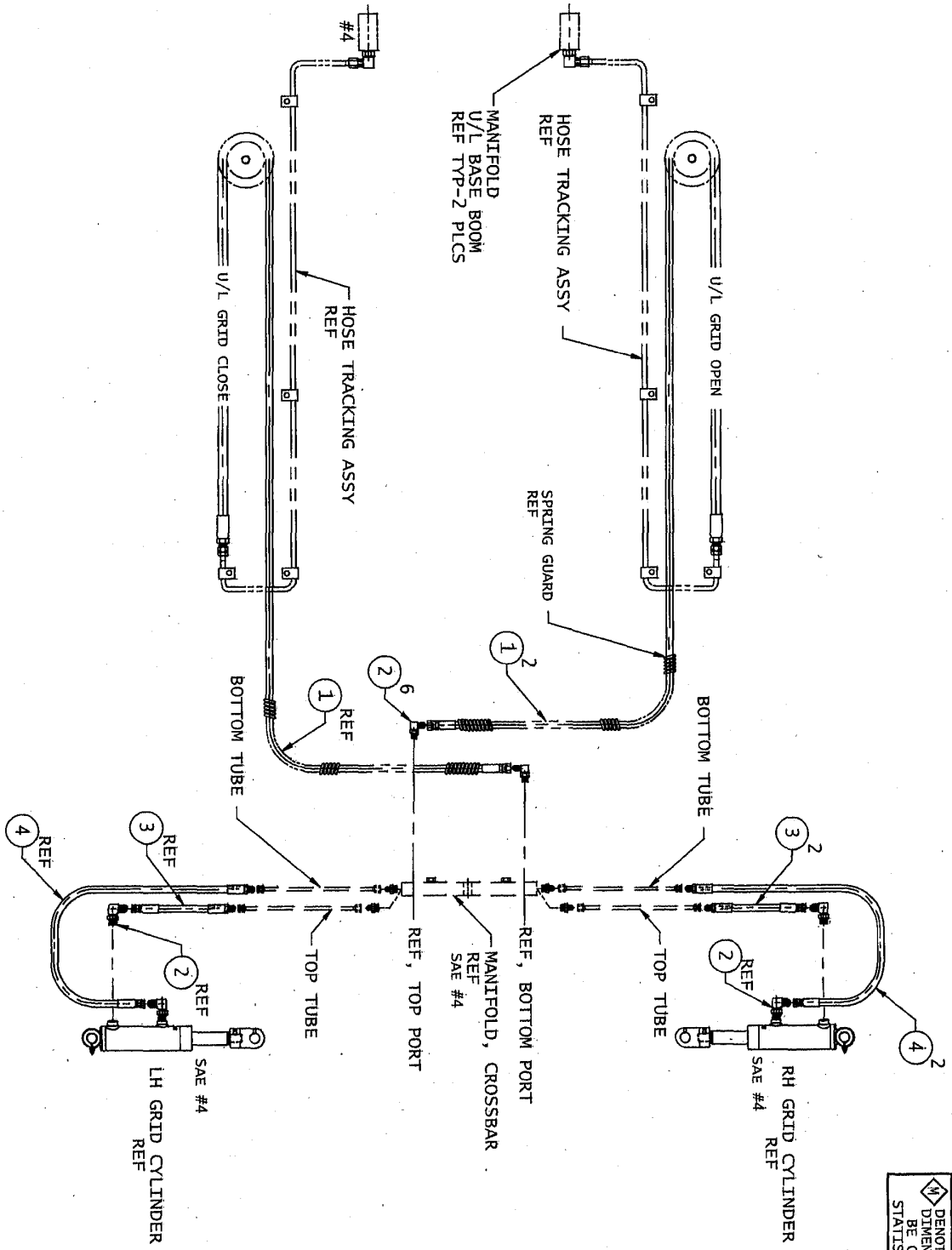
Ball Dr Bin

Ball Dr	Component	Type	Location	Description	QtyPer	TUM	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 ***

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



ERIN	DESCRIPTION	DATE	DRN	TOLERANCES (EXCEPT AS NOTED) DECIMAL 3 PLACES .005 ANGULAR .01° 30' UNLESS OTHERWISE SPECIFIED PER A LINE OR DIMENSION LINE	TITLE HYDRAULIC SCHEMATIC, GRID	DATE 12-08-03	NEXT ASSY 3-484-000060	DRAWING BY SCH	ORIGINAL
				VERDAN CORP. GREENCASTLE, PA.			DRAWING NO. 3653		99-530061



** Report Excludes Shrinkage.
 Effective as of 08/01/05
 Item: 2509570054

***** Engineering Bill of Materials *****
 LIGHT PYLON INSTALL 37" MPL
 Reference: D/3774E

From Item: 2509570054
 To Item: 2509570054
 Last Changed Date:

Quantity	Bin	Receive into Whse: MYPT	Revision #0/0	DOM: PC
1			WA03	

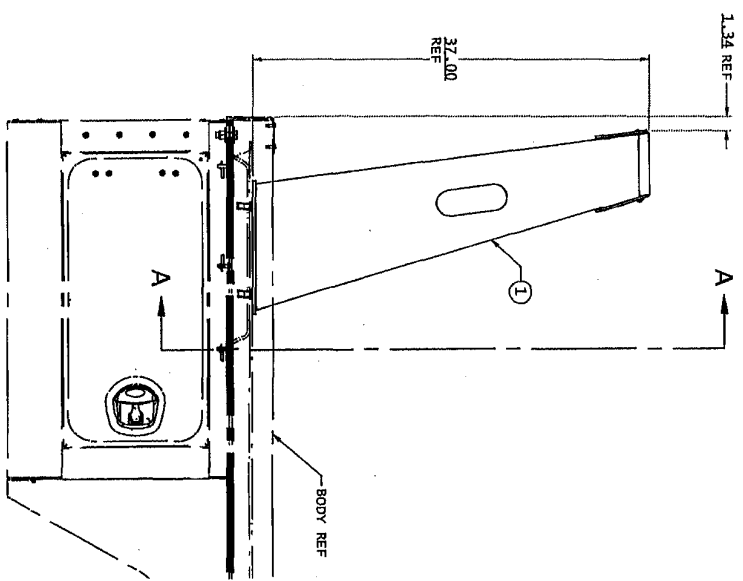
Ball Dr	Component Type	Location	Description	QtyPer UOM	Reference	Effectivity
01	D	3509570103	M WA00 LIGHT PYLON WELDMENT 37" MPL	1.000	PC	-
02	D	4263000689	M WBPS CHANNEL 0.12 x 9.13 x 55.32 ALUM	1.000	PC	-
03	C	4706005002	M WA00 PLATE 0.12 x 14.94 x 34.12 ALUM	2.000	PC	-
04	A	7949000058	P WASHER 0.88 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 BT HD SC	12.000	PC	-
12	A	7661000019	P 000102 U-NUT .25"-20NC	12.000	PC	-

*** End of Item ***

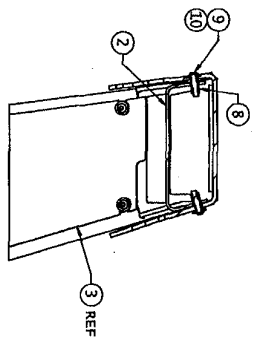
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LIGHT PYLON INSTALL 37" MPL-40

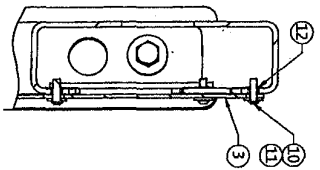
DWG NO 2-509-570054 100 REV



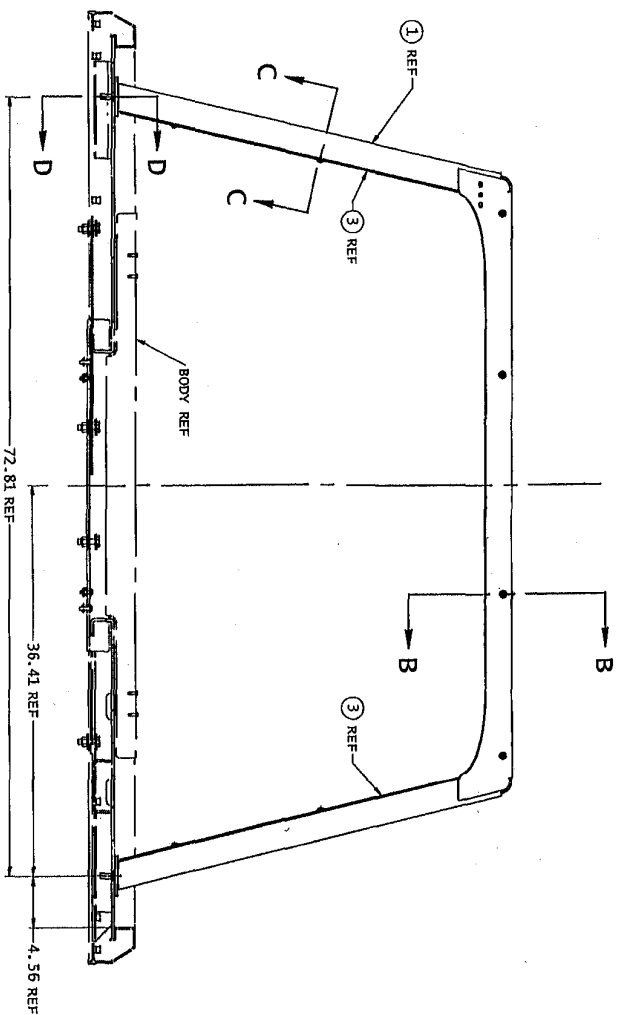
SECTION B-B
SCALE: 0.38



SECTION C-C
SCALE: 0.50



SECTION D-D
SCALE: 0.38



SECTION A-A

REVISIONS	
NO.	DESCRIPTION
1	ISSUED FOR FABRICATION
2	REVISED PER COMMENTS FROM CUSTOMER
3	REVISED PER COMMENTS FROM CUSTOMER
4	REVISED PER COMMENTS FROM CUSTOMER
5	REVISED PER COMMENTS FROM CUSTOMER
6	REVISED PER COMMENTS FROM CUSTOMER
7	REVISED PER COMMENTS FROM CUSTOMER
8	REVISED PER COMMENTS FROM CUSTOMER
9	REVISED PER COMMENTS FROM CUSTOMER
10	REVISED PER COMMENTS FROM CUSTOMER

DATE: 07/23/05	BY: JLD	CHK: JLD	APP: JLD
TITLE: LIGHT PYLON INSTALL 37" MPL-40 PART NO: 2-509-570054 100 SCALE: 1 OR 1/2 SHEET NO: 1 OF 1			



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

** Report Excludes Shrinkage.
 Effective as of 08/01/05
 Item: 2509570057

Reference: D/3774E
 LIGHT PYLON INSTALL 28.31" MPL

From Item: 2509570057
 To Item: 2509570057
 Last Changed Date:

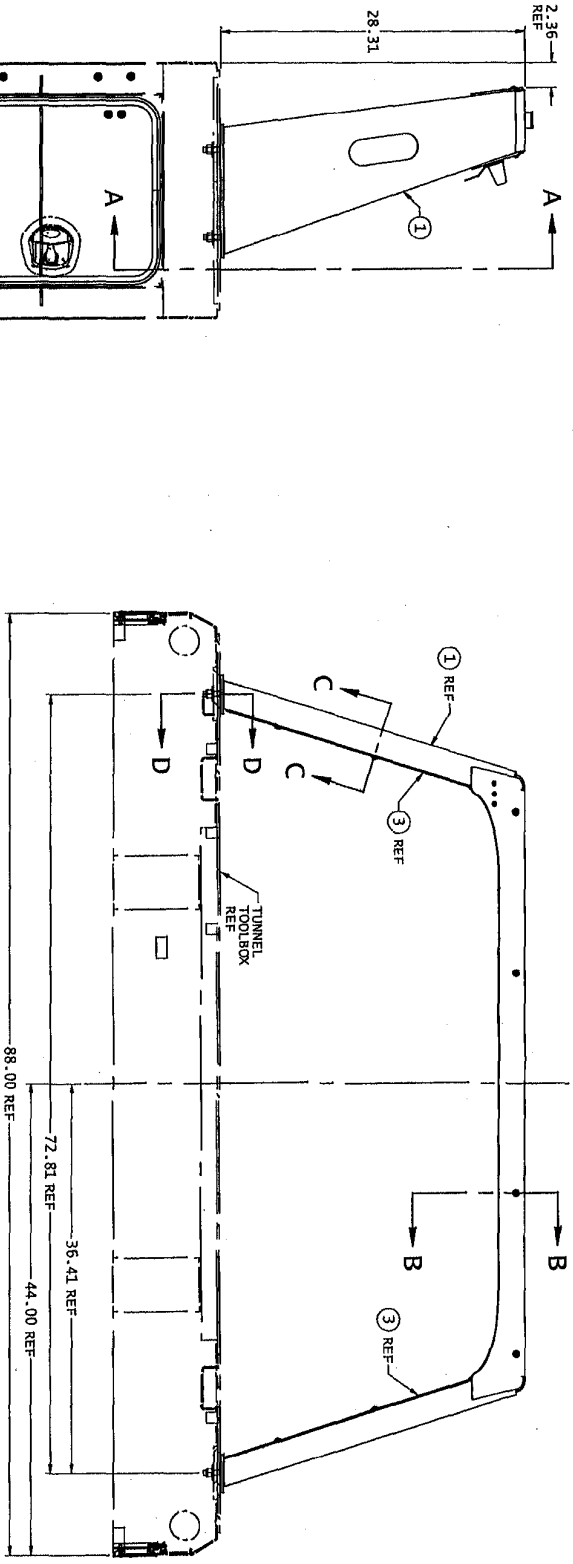
Quantity	Bin	Receive into whse:	Revision #	Bin	UOM
1		NYPT	070		PC
				WA03	

Ball Dr	Component	Type	Location	Description	QtyPer UOM	Reference	Effectivity
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	cl4	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	-

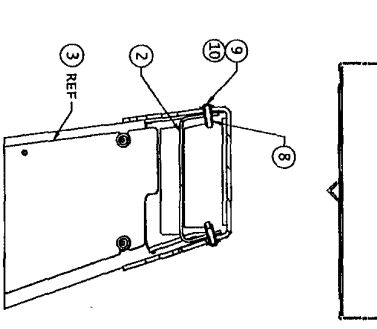
*** End of Report ***

LIGHT PYLON INSTALL 28.31" MPL-40

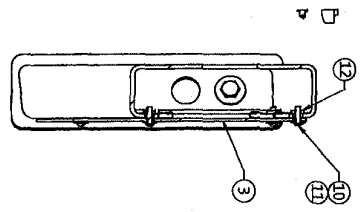
DATE NO. 2-509-570057 00 REV



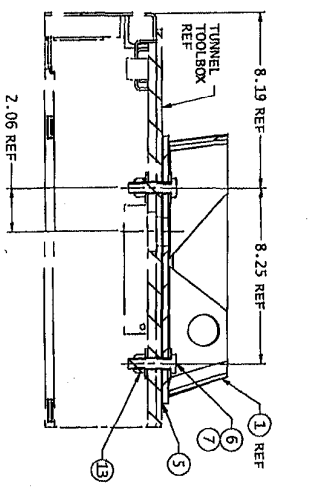
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

- 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

REVISIONS		DATE		BY		CHKD	
1	ISSUE FOR PRODUCTION	02/28/03					
2	REVISED TO REFLECT CHANGES TO THE DRAWING	02/28/03					
3	REVISED TO REFLECT CHANGES TO THE DRAWING	02/28/03					
4	REVISED TO REFLECT CHANGES TO THE DRAWING	02/28/03					
5	REVISED TO REFLECT CHANGES TO THE DRAWING	02/28/03					
6	REVISED TO REFLECT CHANGES TO THE DRAWING	02/28/03					
7	REVISED TO REFLECT CHANGES TO THE DRAWING	02/28/03					
8	REVISED TO REFLECT CHANGES TO THE DRAWING	02/28/03					
9	REVISED TO REFLECT CHANGES TO THE DRAWING	02/28/03					
10	REVISED TO REFLECT CHANGES TO THE DRAWING	02/28/03					
11	REVISED TO REFLECT CHANGES TO THE DRAWING	02/28/03					
12	REVISED TO REFLECT CHANGES TO THE DRAWING	02/28/03					
13	REVISED TO REFLECT CHANGES TO THE DRAWING	02/28/03					



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

** Report Excludes Shrinkage.

Effective as of 08/19/05

Item: 2509290058

DECAL INST MPL-40

Reference: D/3774D

Last Changed Date: 07/28/05

Quantity 1 Receive into Whse: MYPT BIN: FG00 UOM: PC

Ball Dr Bin

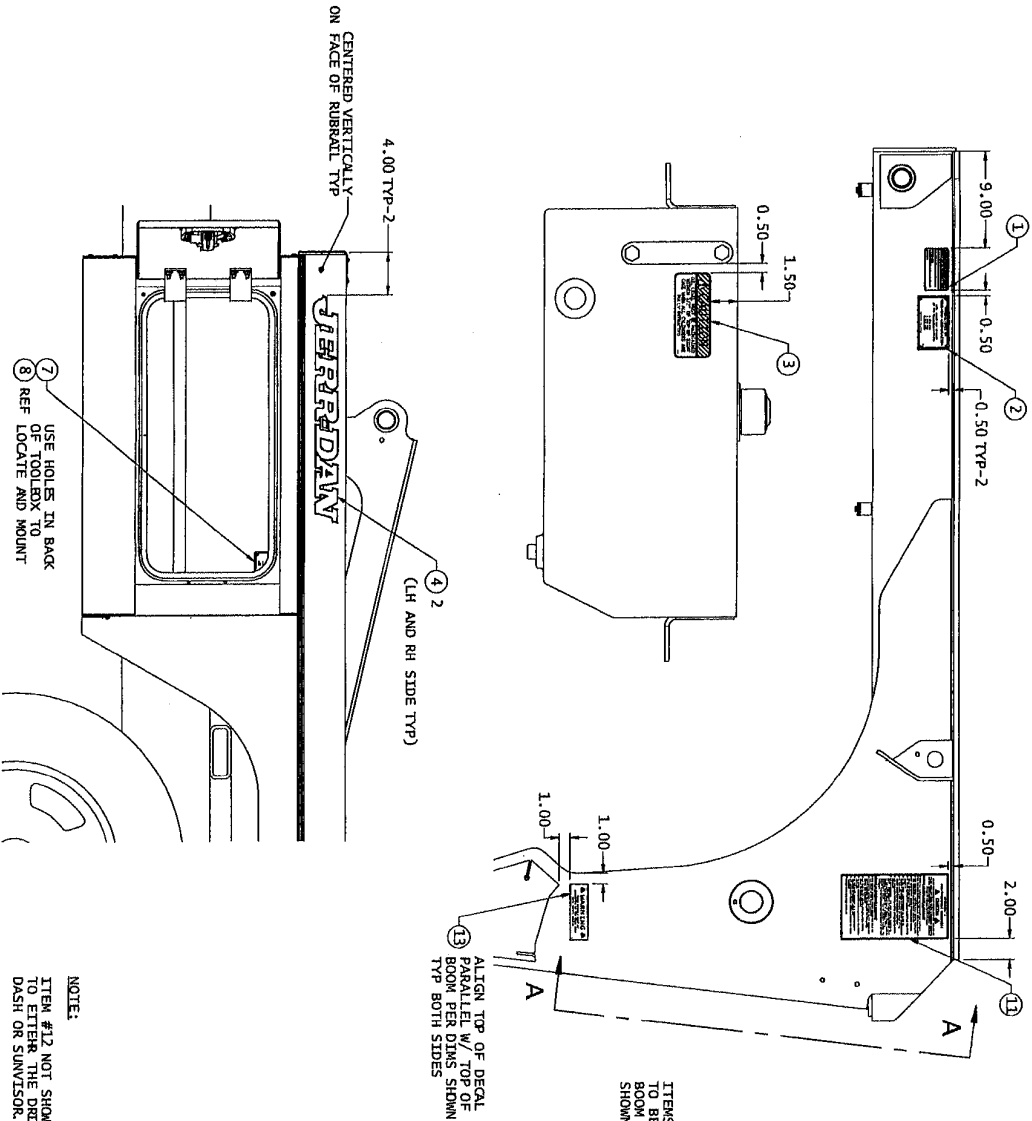
Ball Dr	Component	Type	Location	Description	Qty Per UOM	Reference	Effectivity
01	A	7330000546	P C02	DECAL WINCH CABLE WRAP WARNING	1.000	PC	-
02	A	7330000414	P a06	DECAL SELF LOADER PATENT	1.000	PC	-
03	A	7330000272	P 040606 c06	DECAL OIL LEVEL CAUTION	1.000	PC	-
04	B	7330000433	P 040605 C12 I01	DECAL 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 ***

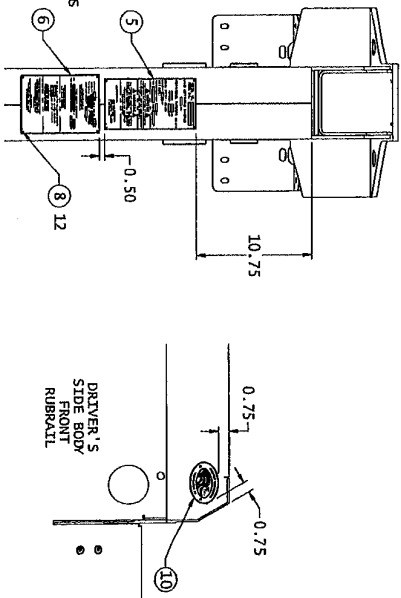
*** End of Report ***

DECAL INST MPL-40

DWG NO 2-509-290058 01 REV



SECTION A-A



USE HOLES IN BACK OF TOOLBOX TO LOCATE AND MOUNT

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

ITEM NO	DESCRIPTION	QTY	UNIT
1	DECAL INST MPL-40	1	EA
2	TOOLBOX	1	EA
3	DRIVER'S SIDE TOOLBOX DOOR REF	1	REF
4	DRIVER'S SIDE BODY FRONT RUBBERKIT	1	EA
5	DRIVER'S SIDE BODY FRONT RUBBERKIT	1	EA
6	DRIVER'S SIDE BODY FRONT RUBBERKIT	1	EA
7	DRIVER'S SIDE BODY FRONT RUBBERKIT	1	EA
8	DRIVER'S SIDE BODY FRONT RUBBERKIT	1	EA
9	DRIVER'S SIDE BODY FRONT RUBBERKIT	1	EA
10	DRIVER'S SIDE BODY FRONT RUBBERKIT	1	EA
11	DRIVER'S SIDE BODY FRONT RUBBERKIT	1	EA
12	DRIVER'S SIDE BODY FRONT RUBBERKIT	1	EA
13	DRIVER'S SIDE BODY FRONT RUBBERKIT	1	EA

JERRDAN
1 OF 2
2-509-290058
1



** Report Excludes Shrinkage.
 Effective as of 08/01/05
 Item: 3509330096

***** Engineering Bill of Materials *****
 BODY LIGHT & WIRING MPL-40

Reference: D/3774E

From Item: 3509330096
 To Item: 3509330096
 Last Changed Date:

Quantity	Bin	Receive into whse:	Revision #	UOM
1		MYPT	00/0	PC
			WA03	

Ball Dr	Component	Type	Location	Description	QtyPer UOM	Reference	Effectivity
01	D	7552000292	P K07	HARNES 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 NYLON HEX	4.000 PC		
11	N	7950140141	P a23	FLATWASHER .25" NOM NARROW	6.000 PC		
12	D	7552000290	P K07	HARNES, LH BODY MPL40 rev01	1.000 PC		
13	D	7552000291	P K07	HARNES 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	N	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	NTSERT .25"-20NC AVK INDUSTRIAL	2.000 PC		
27	A	7011000003	P g02	127 106 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	N	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		



An Oshkosh Truck Corporation Company

** Report Excludes Shrinkage.

Effective as of 08/01/05

Item: 3509330096

BODY LIGHT & WIRING MPL-40

Reference: D/3774B

From Item: 3509330096
To Item: 3509330096

Last Changed Date:

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

Quantity 1 Bin Receive into Whse: MYPT Revision #070 WA03 TOM: PC

Ball Dr -oon Sz Component Type Location Description QtyPer TOM Reference Effectivity

32 A 7661000047 P NUT NYLON PANNEL #8-10 GRIP 0.03-0.13" 4.000 PC

*** End of Item ***

*** End of Report ***

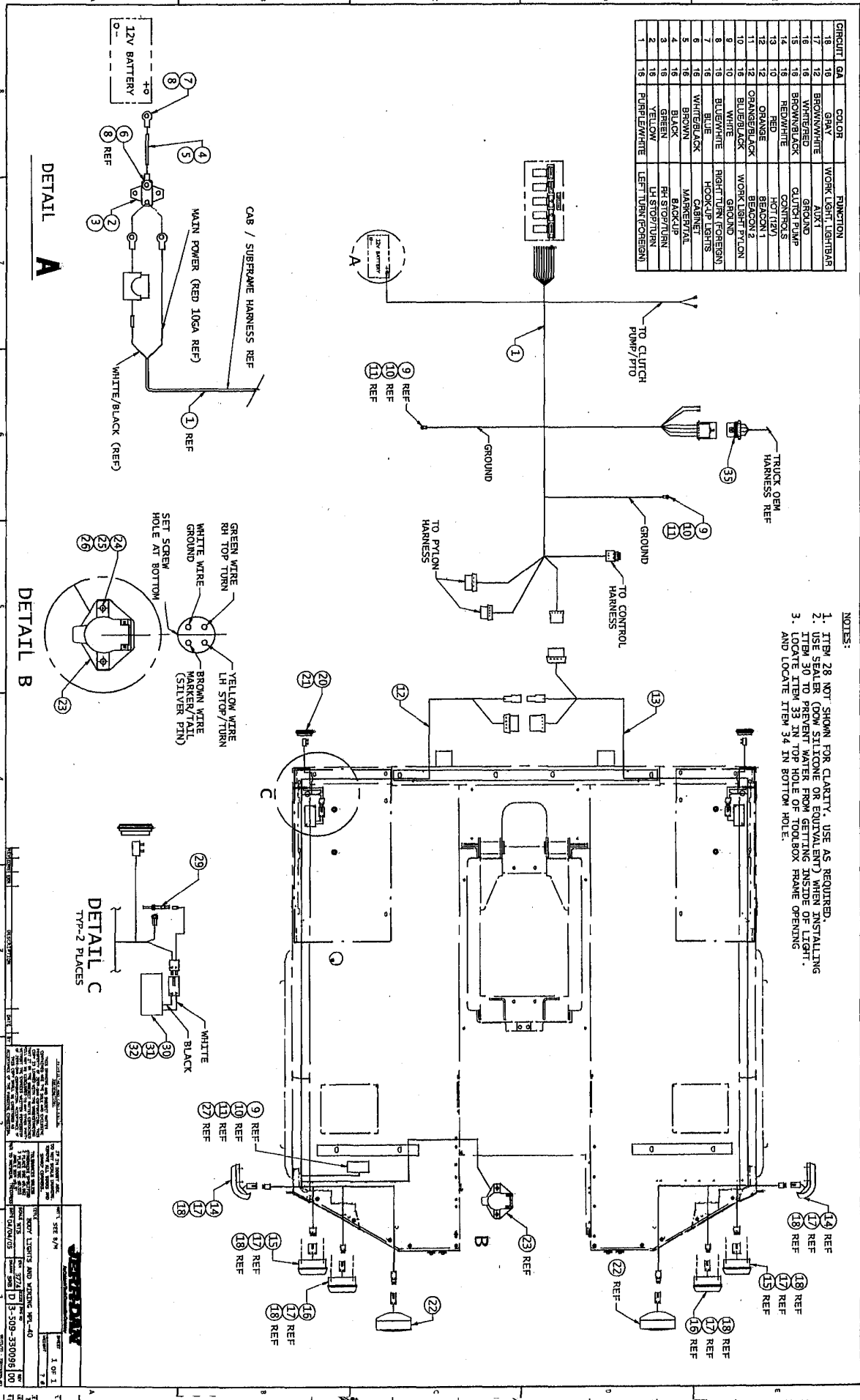
Empty table structure with columns for Quantity, Bin, Receive into Whse, Revision, WA03, TOM, Reference, and Effectivity.

BODY LIGHTS AND WIRING MPL-40

DMG NO. 3-509-330096 00

CIRCUIT	GA.	COLOR	FUNCTION
1	16	PURPLE/WHITE	LEFT TURN (FORWARD)
2	16	YELLOW	LH STOP/TURN
3	16	GREEN	RH STOP/TURN
4	16	BLACK	BACKUP
5	16	BROWN	MARSHALL
6	16	WHITESLACK	CABINET
7	16	BLUE	HOOKUP LIGHTS
8	16	BULE/WHITE	RIGHT TURN (FORWARD)
9	16	BLACK	WORK LIGHT
10	16	CHAMP/BLACK	WORK LIGHT
11	16	ORANGE	BEACON 1
12	16	ORANGE	BEACON 2
13	16	RED	HOT TIRE
14	16	RED/WHITE	CONTOURS
15	16	BROWN/BLACK	CLUTCH PUMP
16	16	WHITE/RED	AUX 1
17	16	BROWN/WHITE	WORK LIGHT, LIGHTBAR
18	16	GRAY	WORK LIGHT, LIGHTBAR

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



DETAIL A

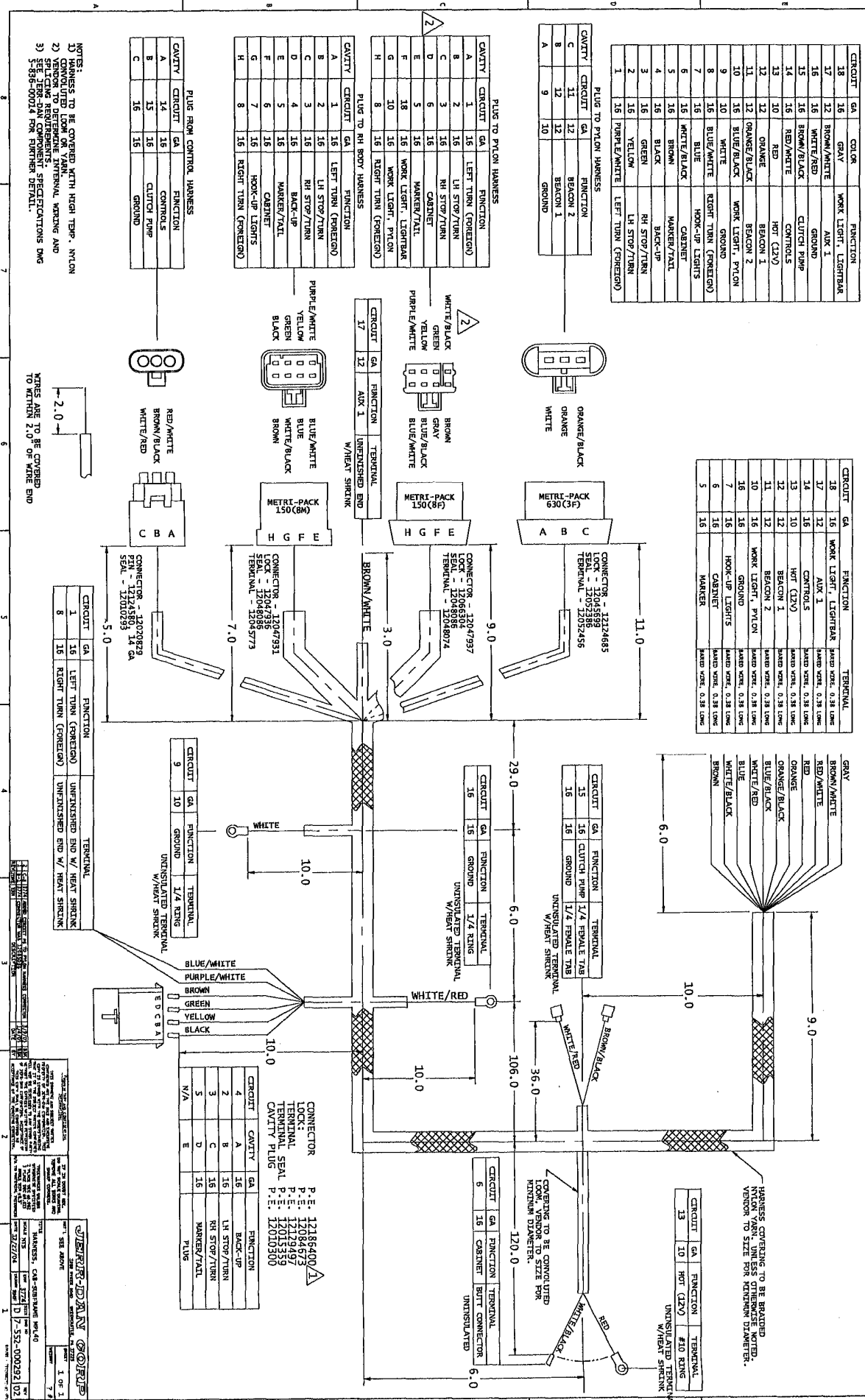
DETAIL B

DETAIL C

REV	DATE	BY	CHKD	DESCRIPTION
1	10/1/00
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HARNNESS, CAB-SUBFRAME MPL40

DWG NO 7-552-000292 02 REV



CIRCUIT	GA	COLOR	FUNCTION
18	16	GRAY	WORK LIGHT, LIGHTBAR
17	12	BROWN/WHITE	AUX 1
16	16	WHITE/RED	GROUND
15	16	BROWN/BLACK	CLUTCH PUMP
14	16	RED/WHITE	CLUTCH PUMP
13	10	RED	HOT (12V)
12	12	GRAY	BEACON 2
11	12	ORANGE/BLACK	BEACON 1
10	16	BLUE/BLACK	WORK LIGHT, Pylon
9	10	WHITE	GROUND
8	16	BLUE/WHITE	RIGHT TURN (FOREIGN)
7	16	BLUE	HOOK-UP LIGHTS
6	16	WHITE/BLACK	MARKER/TAIL CABINER
5	16	BROWN	MARKER/TAIL CABINER
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
11	12	BEACON 2
12	12	BEACON 1
10	10	GROUND

CIRCUIT	GA	FUNCTION
1	16	LEFT TURN (FOREIGN)
2	16	LH STOP/TURN
3	16	RH STOP/TURN
4	16	BACK-UP
5	16	MARKER/TAIL
6	16	MARKER/TAIL
7	16	HOOK-UP LIGHTS
8	16	RIGHT TURN (FOREIGN)

CIRCUIT	GA	FUNCTION
14	16	CONTROLS
15	16	CLUTCH PUMP
16	16	GROUND

CIRCUIT	GA	FUNCTION	TERMINAL
18	16	WORK LIGHT, LIGHTBAR	WATER PROOF, 0.38 LONG
17	12	AUX 1	WATER PROOF, 0.38 LONG
16	16	CONTROL	WATER PROOF, 0.38 LONG
15	16	HOT (12V)	WATER PROOF, 0.38 LONG
14	16	BEACON 1	WATER PROOF, 0.38 LONG
13	12	BEACON 2	WATER PROOF, 0.38 LONG
12	12	WORK LIGHT, Pylon	WATER PROOF, 0.38 LONG
11	12	GROUND	WATER PROOF, 0.38 LONG
10	16	HOOK-UP LIGHTS	WATER PROOF, 0.38 LONG
9	10	CABINER	WATER PROOF, 0.38 LONG
8	16	MARKER	WATER PROOF, 0.38 LONG
7	16		
6	16		
5	16		
4	16		
3	16		
2	16		
1	16		

CIRCUIT	GA	FUNCTION	TERMINAL
11	12	BEACON 2	WATER PROOF
12	12	BEACON 1	WATER PROOF
10	10	GROUND	WATER PROOF

CIRCUIT	GA	FUNCTION	TERMINAL
1	16	LEFT TURN (FOREIGN)	WATER PROOF
2	16	LH STOP/TURN	WATER PROOF
3	16	RH STOP/TURN	WATER PROOF
4	16	BACK-UP	WATER PROOF
5	16	MARKER/TAIL	WATER PROOF
6	16	MARKER/TAIL	WATER PROOF
7	16	HOOK-UP LIGHTS	WATER PROOF
8	16	RIGHT TURN (FOREIGN)	WATER PROOF

CIRCUIT	GA	FUNCTION	TERMINAL
14	16	CONTROLS	WATER PROOF
15	16	CLUTCH PUMP	WATER PROOF
16	16	GROUND	WATER PROOF

CIRCUIT	GA	FUNCTION	TERMINAL
1	16	LEFT TURN (FOREIGN)	UNFINISHED END W/ HEAT SHRINK
8	16	RIGHT TURN (FOREIGN)	UNFINISHED END W/ HEAT SHRINK

NOTES:
 1) HARNNESS TO BE COVERED WITH HIGH TEMP. NYLON TAPE.
 2) NYLON TAPE TO BE COVERED WITH HIGH TEMP. NYLON TAPE.
 3) SEE JERR-D-0014 FOR FURTHER DETAIL.

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

CONNECTOR - 12186400
 LOCK - 12186400
 SEAL - 12186400
 TERMINAL P.E. - 12186400
 CAVITY PLUG P.E. - 12186400

CONNECTOR - 12186400
 LOCK - 12186400
 SEAL - 12186400
 TERMINAL P.E. - 12186400
 CAVITY PLUG P.E. - 12186400

CONNECTOR - 12186400
 LOCK - 12186400
 SEAL - 12186400
 TERMINAL P.E. - 12186400
 CAVITY PLUG P.E. - 12186400

CONNECTOR - 12186400
 LOCK - 12186400
 SEAL - 12186400
 TERMINAL P.E. - 12186400
 CAVITY PLUG P.E. - 12186400

HARNNESS, LH BODY MPL40

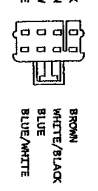
DWG NO 7-552-000290 01 REV

CIRCUIT	GA	COLOR	FUNCTION
9	12	WHITE	GROUND
7	16	BLUE/WHITE	RIGHT TURN (FOREIGN)
8	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 HARNNESS

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)

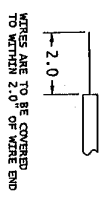
CONNECTOR - 12067937
 LOCK - 12065304
 SEAL - 12048086
 TERMINAL - 12048074



PLUG FROM RH BODY HARNNESS

CAVITY	CIRCUIT	GA	FUNCTION
A	9	12	GROUND
B	12	12	GROUND

CONNECTOR - 12065171
 LOCK - 12065249
 SEAL - 12015199
 TERMINAL - 12129497



CIRCUIT	GA	FUNCTION	TERMINAL
5	16	MARKER/TAIL	TRUCK-LIFE
9	16	GROUND	39393 INT

CONNECTOR - 12015792
 SEAL - 12015323
 TERMINAL - 12124580

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

CONNECTOR - 12015792
 SEAL - 12015323
 TERMINAL - 12124580

CIRCUIT	GA	FUNCTION
9	16	GROUND
4	16	BACK-UP

CONNECTOR - 12020829
 SEAL - 12015323
 TERMINAL - 12124580

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

CONNECTOR - 12015792
 SEAL - 12015323
 TERMINAL - 12124580

CIRCUIT	GA	FUNCTION
9	16	GROUND
3	16	MARKER/TAIL

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

UTERAPLAN

WIRE HARNESS, LH BODY MPL40

REV 1 OF 1

DATE 07/27/78

DWG NO 7-552-000290 01

- 1) HARNNESS TO BE COVERED WITH HIGH TEMP. NYLON
- 2) VENDOR TO DETERMINE INTERNAL WIRING AND
- 3) 5-856-00014 FOR FURTHER DETAIL.

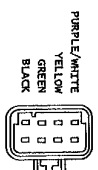
HARNNESS, RH BODY MPL40

DWG NO 7-552-000291 01 REV

PLUG TO LH BODY HARNNESS

CIRCUIT	GA	FUNCTION	TERMINAL
1	16	LEFT TURN (FOREIGN)	
2	16	LH STOP/TURN	
3	16	RH STOP/TURN	
4	16	BACK-UP	
5	16	MARKER/TAIL	
6	16	CABINET	
7	16	HOOK-UP LIGHTS	
8	16	RIGHT TURN (FOREIGN)	

CONNECTOR - 12047931
 SEAL - 12048036
 TERMINAL - 12045773



PLUG TO LH BODY HARNNESS

CIRCUIT	GA	FUNCTION	TERMINAL
9	12	GROUND	

CONNECTOR - 12051172
 LOCK - 12052449
 SEAL - 12015193
 TERMINAL - 12129493

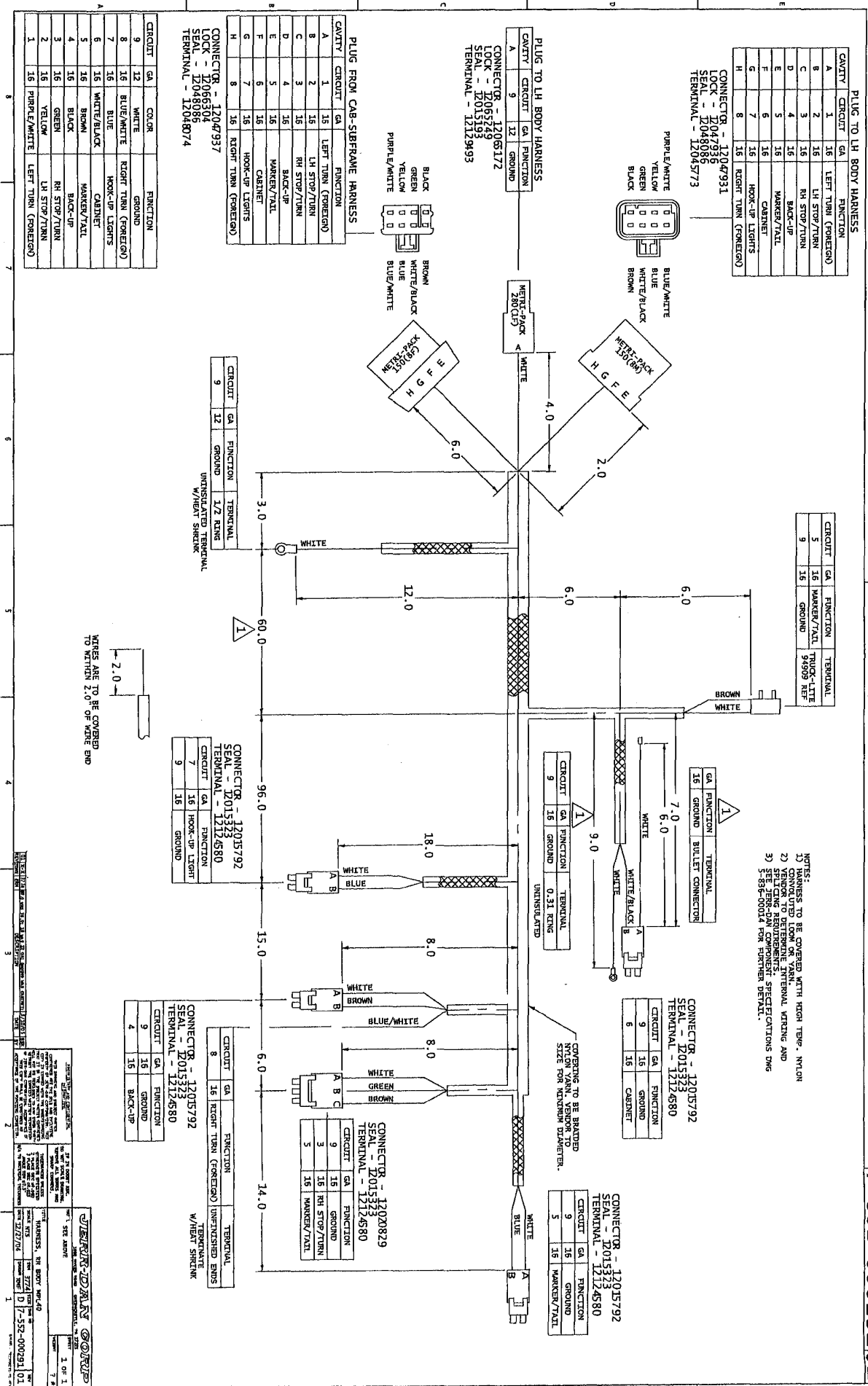


PLUG FROM CAB-SUBFRAME HARNNESS

CIRCUIT	GA	FUNCTION	TERMINAL
1	15	LEFT TURN (FOREIGN)	
2	15	LH STOP/TURN	
3	15	RH STOP/TURN	
4	15	BACK-UP	
5	15	MARKER/TAIL	
6	15	CABINET	
7	15	HOOK-UP LIGHTS	
8	15	RIGHT TURN (FOREIGN)	

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

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



- NOTES:
- 1) HARNNESS TO BE COVERED WITH HIGH TEMP. NYLON
 - 2) CONVOLUTED LOOP ON VARN.
 - 3) SPLICING REQUIREMENTS AS SHOWN IN INTERNAL WIRING AND SEE JERRARD COMPONENT SPECIFICATIONS DWG 3-58-0004 FOR PARTNER DETAIL.

CONNECTOR - 12015792
 SEAL - 12015323
 TERMINAL - 12124580

CIRCUIT	GA	FUNCTION	TERMINAL
6	16	GROUND	
9	16	GROUND	

CONNECTOR - 12015792
 SEAL - 12015323
 TERMINAL - 12124580

CIRCUIT	GA	FUNCTION	TERMINAL
9	16	GROUND	
16	16	GROUND	

CONNECTOR - 12015792
 SEAL - 12015323
 TERMINAL - 12124580

CIRCUIT	GA	FUNCTION	TERMINAL
5	15	GROUND	
16	16	MARKER/TAIL	

CONNECTOR - 12020829
 SEAL - 12015323
 TERMINAL - 12124580

CIRCUIT	GA	FUNCTION	TERMINAL
9	15	GROUND	
16	16	RH STOP/TURN	
16	16	MARKER/TAIL	

CONNECTOR - 12015792
 SEAL - 12015323
 TERMINAL - 12124580

CIRCUIT	GA	FUNCTION	TERMINAL
8	16	RIGHT TURN (FOREIGN)	UNINSULATED BUSH
16	16	GROUND	W/HEAT SHTK

CONNECTOR - 12015792
 SEAL - 12015323
 TERMINAL - 12124580

CIRCUIT	GA	FUNCTION	TERMINAL
9	16	GROUND	
16	16	BACK-UP	

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

WIRE BUNDLE IDENTIFICATION

1. SEE ABOVE

2. SEE ABOVE

3. SEE ABOVE

4. SEE ABOVE

5. SEE ABOVE

6. SEE ABOVE

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100. SEE ABOVE



An Oshkosh Truck Corporation Company

** Report Excludes Shrinkage.

Effective as of 08/01/05

Item: 2590000129

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

LIGHT INSTL PYLON MARKER

Reference: B/3325-N

From Item: 2590000129
To Item: 2590000129

Last Changed Date:

Revision #07/0

Quantity 1 Receive into Whse: HYKS

BIN:

UOM: PC

Ball Dr Bin

-oon Sz Component Type Location

Description

QtyPer UOM Reference

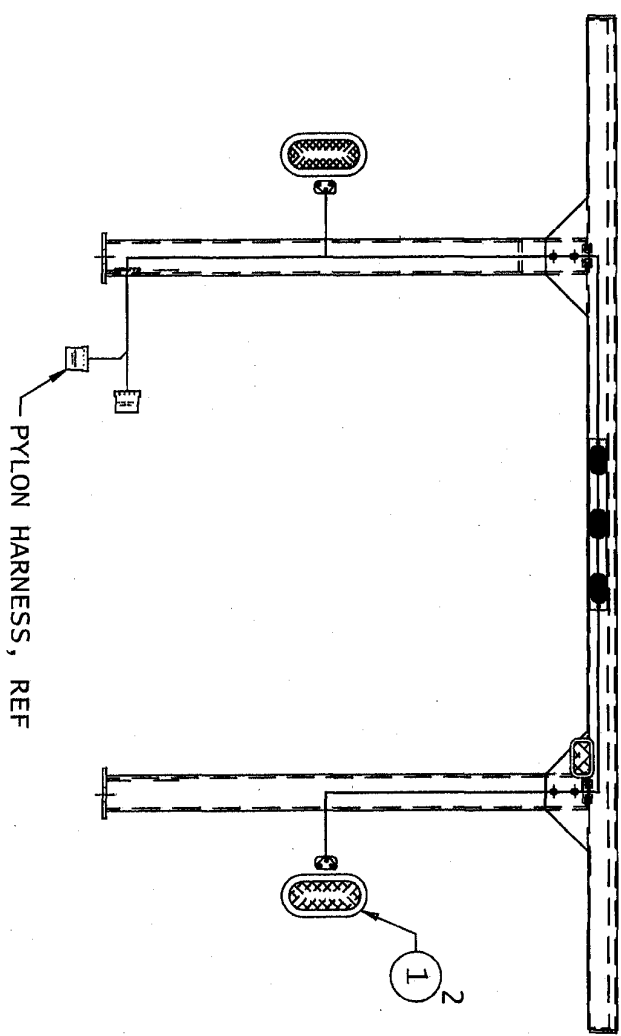
Effectivity

01	N	7590000095	P	101503	e-floor ASSY MARKER LIGHT-YEL LIGHT/GROMMET ONLY	2.000	PC	-
02		7894000010	P	J40	STRAP TIE DEL-CITY 6" (WHITE)	2.000	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



ITEM #2 NOT SHOWN

TOLERANCES (EXCEPT AS NOTED)		JERRI-DAN CORP. GREENCASTLE, PA.	
DECIMAL	3 PLACE .002	DATE	6/24/02
ANGULAR	30° 30'	DRAWING NO.	B2-590-000129
TITLE LIGHT ASSY, PYLON MARKERS		SCALE	0.13
DRAWN BY RMF		ERN NO.	3325
DATE		ORIGINAL	
NEXT ASSY			

REV	ERN	DESCRIPTION	DATE	DRN

REV	ERN	DESCRIPTION	DATE	DRN



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

** Report Excludes Shrinkage.

Effective as of 08/01/05

Item: 2415000019

FENDER FLARE INSTALL NARROW MPL-40

Reference: N/3774D

From Item: 2415000019
To Item: 2415000019

Last Changed Date:

Quantity 1

Receive into Whse: MYPT

Revision #070
BIN: WA01

UOM: PC

Ball Dr Bin

-oon Sz Component Type Location

Description

QtyPer UOM Reference

Effectivity

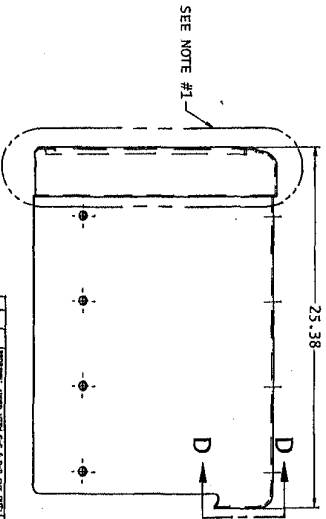
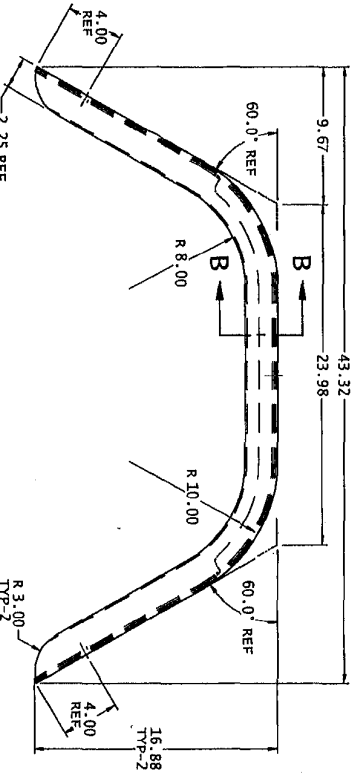
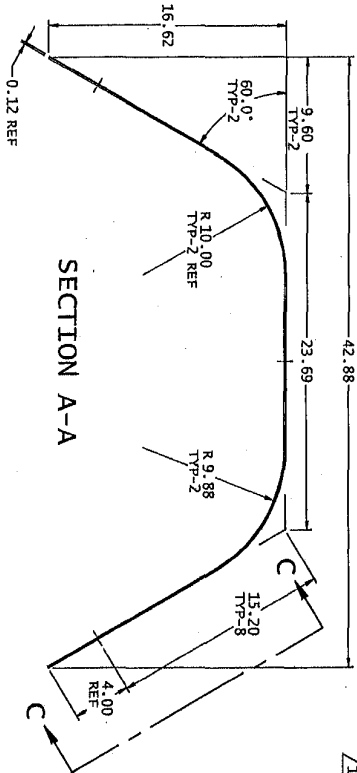
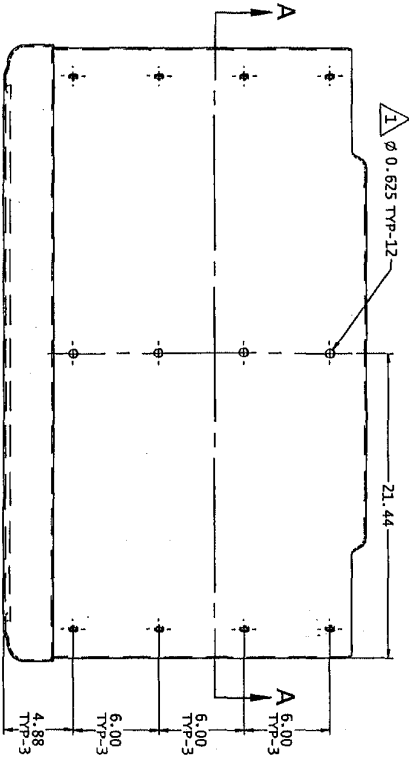
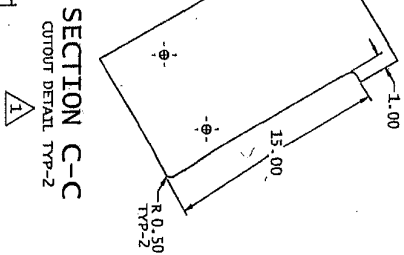
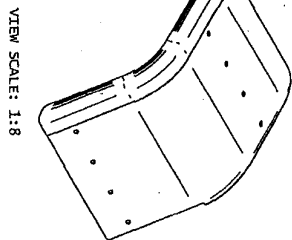
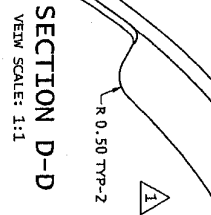
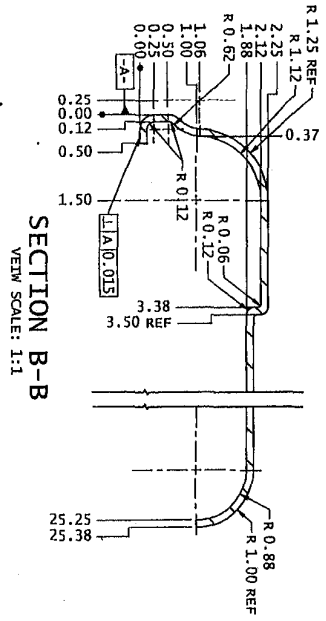
Ball Dr	Bin	Description	QtyPer UOM	Reference	Effectivity
01 D 7415000021	P m-Floor	FENDER PLASTIC QP40 (UNPAINTED)	2.000 PC		-
02 7114150850	P all	CAPSCREW .31"-18NC X 1.00" HEX HEAD SS	22.000 PC		-
03 N 7950150000	P 080304 X01	WASHER .31" NOM REG LOCK - PLATED	22.000 PC		-
04 N 7949000055	P	WASHER FENDER 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 3.50" WIDE

REV NO 7-415-000023 01



1. ALL OUTSIDE SURFACES MUST BE FREE OF DIPS, BOMS, INDENTATIONS AND CUTS.
 2. MINIMUM PART THICKNESS TO BE 0.12" THICK AND UNIFORM THROUGHOUT.
 3. ALL TRIMMED EDGES MUST BE FREE OF NICKS, GROUES AND CUTS.
- MATERIAL:
NICHOL EQUAR WEGIT POLYETHRENE
MINIMUM THICKNESS 0.187"
MATERIAL COLOR: BLACK

REV	NO	DATE	DESCRIPTION
1	1	02/28/03	ISSUE FOR PRODUCTION

GENERAL NOTES:	
1. SEE ABOVE	1 OF 1
MATERIAL: FENDER PLASTIC 3.50" WIDE	
REV	NO
1	1
DATE	DESCRIPTION
02/28/03	ISSUE FOR PRODUCTION

** Report Excludes Shrinkage.
 Effective as of 08/01/05
 Item: 3509330108

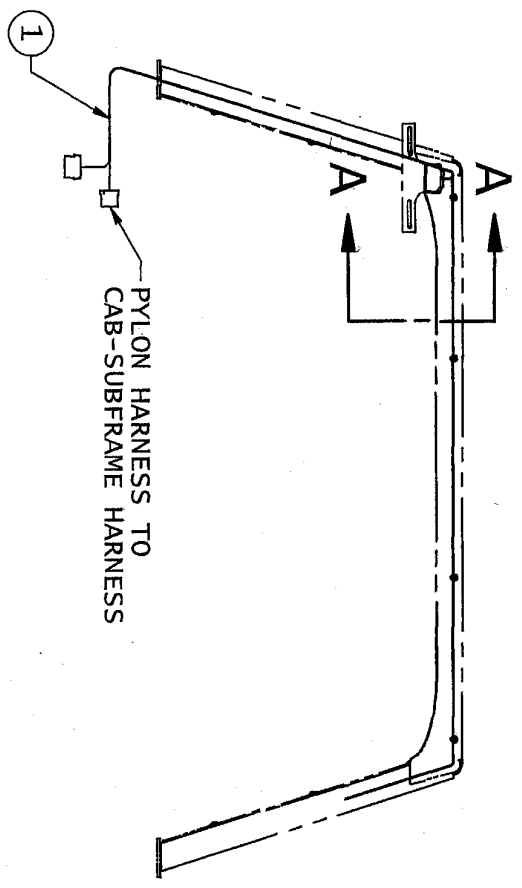
***** Engineering Bill of Materials *****
 ELECTRICAL ASSY BASE PYLON MBL-40 60CA
 Reference: B/3774E
 Revision #0/0
 Receive into Whse: MYPT
 BIN: WA03
 UOM: PC

From Item: 3509330108
 To Item: 3509330108
 Last Changed Date:

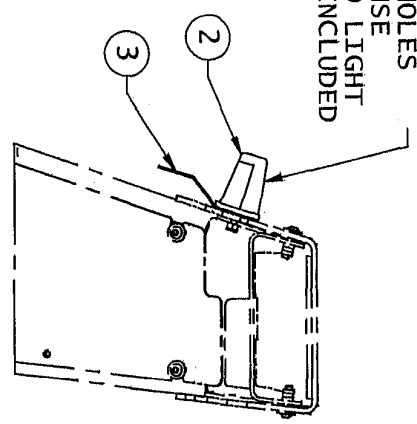
Ball Dr	Quantity	Component	Type	Location	Description	QtyPer	UOM	Reference	Effectivity
01	D	7552000293	P	K07	HARNNESS HEADBOARD MPL40	1.000	PC	-	-
02	N	7590000105	P	e-floor	LIGHT #436SX LICENSE PLATE	1.000	pc	-	-
03	N	7178000025	P	e02	LICENSE PLATE BRACKET #3272100KEL	1.000	PC	-	-
04	N	7346000039	P	d14 g-floor	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	-	-

*** End of Item ***
 *** End of Report ***

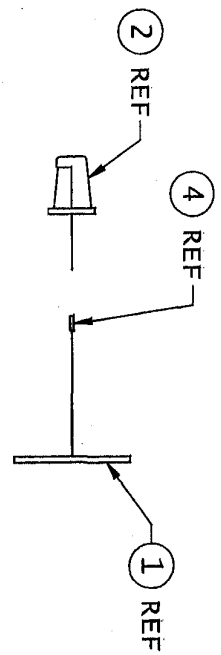
NOTE: ITEMS 5 & 6 (WIRE TIES) NOT SHOWN
USE AS REQUIRED



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



SECTION A-A



REV	ZONE	ENR	DESCRIPTION	DATE	BY
2					

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TOLERANCES UNLESS OTHERWISE SPECIFIED:
2 PLACE DEC .50, .062
3 PLACE DEC .50, .015
N/A TO MATERIAL, THE CONCRESS

JERRIDAN An Okonite™ Division of Okonite Corporation		WPT'L SEE B/M	SHEET 1 OF 1	WEIGHT ? #
TITLE ELECTRICAL ASSY BASE PYLON MPL-40 60CA				
SCALE NTS	ENR 3774	SIZE	REV NO	REV
DATE 03/23/05	DRWN SM8	B	3-509-330108	00

HARNESSE HEADBOARD MPL40

DWG NO: 7-552-000293
REV: 00

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	BROWN	RH STOP/TURN
2	16	YELLOW	LH STOP/TURN
1	16	PURPLE/WHITE	LEFT TURN (FOREIGN)

CIRCUIT	GA	FUNCTION	TERMINAL
5	16	MARKER/TAIL	TRUCK-LITE 94991 REF
9	16	GROUND	

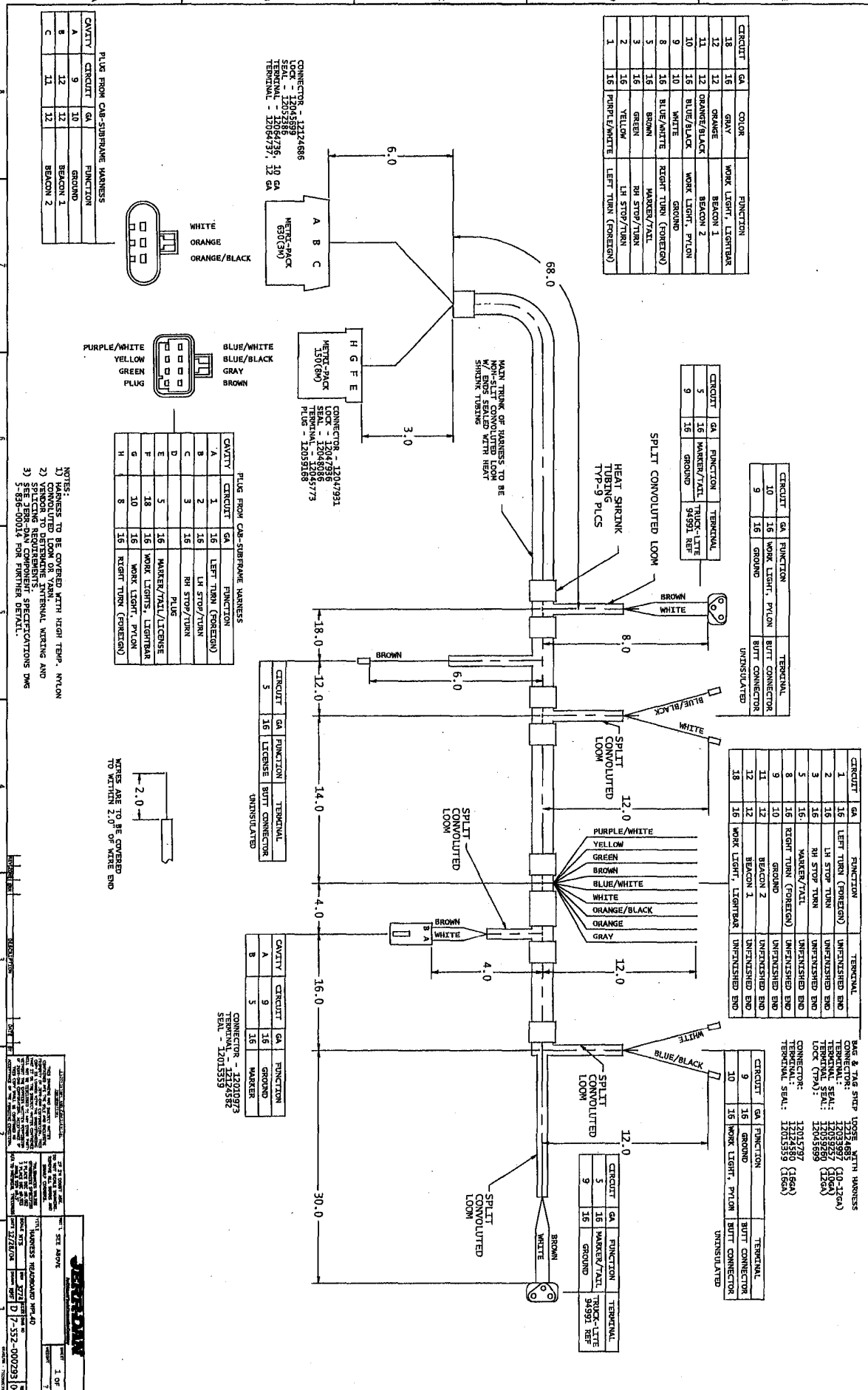
CIRCUIT	GA	FUNCTION	TERMINAL
10	16	WORK LIGHT, Pylon	BUIT CONNECTOR
9	16	GROUND	BUIT CONNECTOR

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 1	UNFINISHED END
12	12	BEACON 2	UNFINISHED END
18	16	WORK LIGHT, LIGHTBAR	UNFINISHED END

DATE & TAG STEP LOOSE WITH HARNESSE
 CONNECTOR: 12124885 (10-12GA)
 TERMINAL SEAL: 12124885 (12GA)
 LOCK (CPA): 12124885 (12GA)
 TERMINAL SEAL: 12124885 (12GA)
 CONNECTOR: 12015297 (18GA)
 TERMINAL SEAL: 12124885 (18GA)
 TERMINAL SEAL: 12124885 (18GA)

CIRCUIT	GA	FUNCTION	TERMINAL
9	16	GROUND	BUIT CONNECTOR
10	16	WORK LIGHT, Pylon	BUIT CONNECTOR

CIRCUIT	GA	FUNCTION	TERMINAL
5	16	MARKER/TAIL	TRUCK-LITE 94991 REF
9	16	GROUND	



CONNECTOR - 12124885
 LOCK - 12015297
 SEAL - 12015297
 TERMINAL - 12014937, 12 GA

GA	FUNCTION
9	GROUND
10	BEACON 1
11	BEACON 2

GA	FUNCTION
9	GROUND
10	BEACON 1
11	BEACON 2

GA	FUNCTION
9	GROUND
10	BEACON 1
11	BEACON 2

GA	FUNCTION
9	GROUND
10	BEACON 1
11	BEACON 2

GA	FUNCTION
9	GROUND
10	BEACON 1
11	BEACON 2

GA	FUNCTION
9	GROUND
10	BEACON 1
11	BEACON 2

GA	FUNCTION
9	GROUND
10	BEACON 1
11	BEACON 2

GA	FUNCTION
9	GROUND
10	BEACON 1
11	BEACON 2

GA	FUNCTION
9	GROUND
10	BEACON 1
11	BEACON 2

GA	FUNCTION
9	GROUND
10	BEACON 1
11	BEACON 2

- NOTES:
 1) HARNESSE TO BE COVERED WITH HIGH TEMP. NYLON
 2) VENDOR TO DETERMINE INTERNAL WIRING AND
 SPECIFYING REQUIREMENTS & SPECIFICATIONS DWG
 3) 5-6-00014 FOR FURTHER DETAIL.

DATE: 12/17/00
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 APPROVED BY: [Signature]
 TITLE: HARNESSE HEADBOARD MPL40
 PART NO: 7-552-000293
 REV: 00



** Report Excludes Shrinkage.
 Effective as of 08/01/05
 Item: 3509330109

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

ELECT ASSY PYLON & TUNNEL MPL-40 84CA

Reference:D/3774E

From Item: 3509330109
 To Item: 3509330109
 Last Changed Date:

Quantity 1 Bin Receive into Whse: MYPT BIN: WA03 TOM: PC

Revision #070

Bali Dr -oon Sz Component Type Location Description QtyPer TOM Reference Effectivity

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	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 #Y391C	2.000	PC	-
09	A	7661000047	P		NUJ 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	-

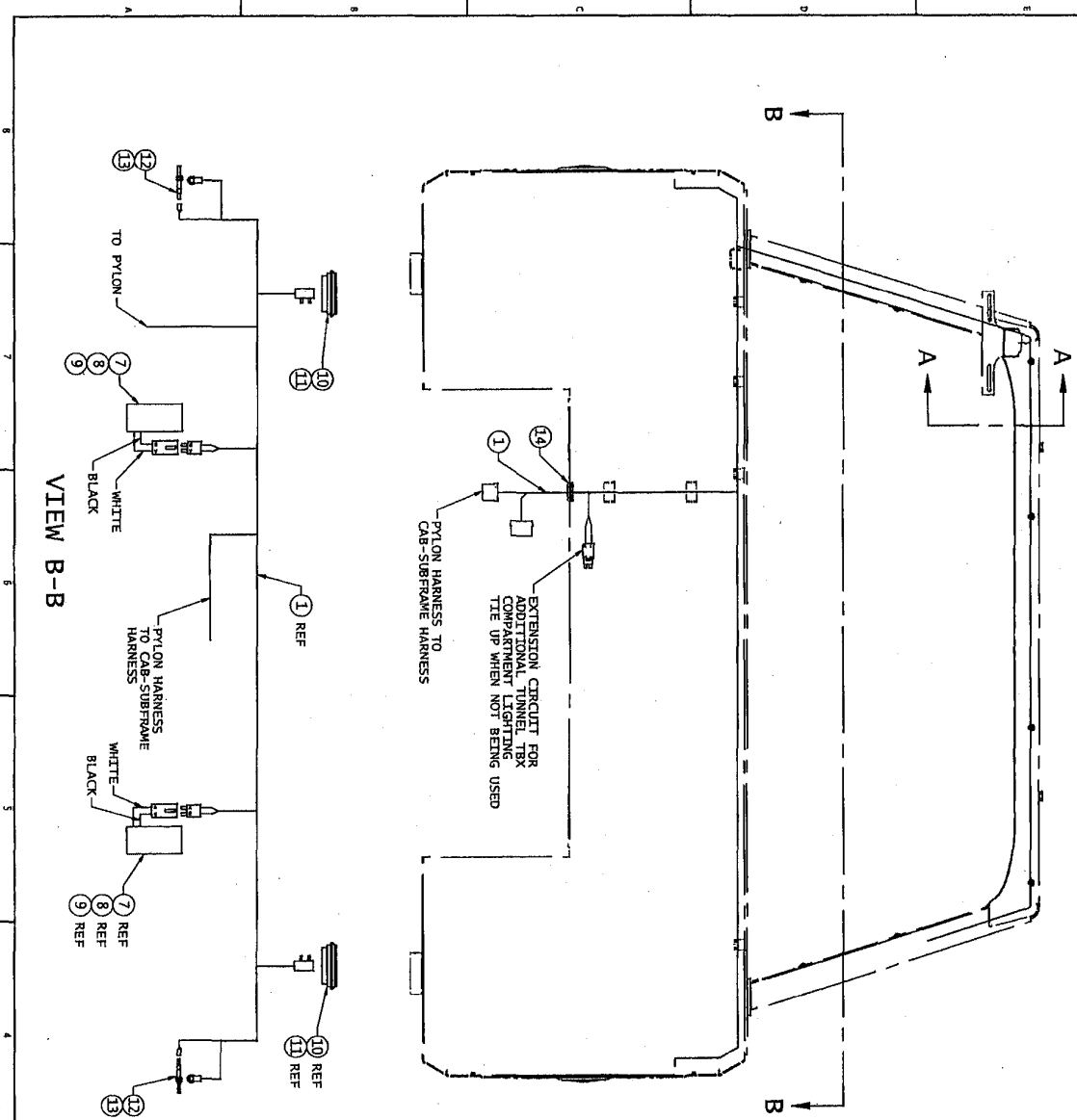
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*** End of Report ***

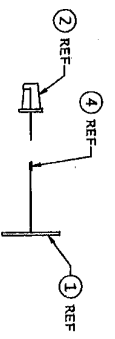
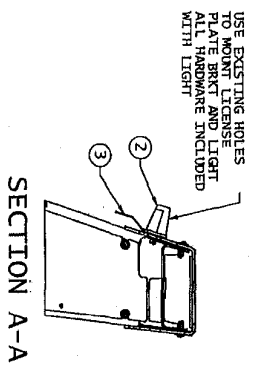
ELECT ASSY PYLON & TUNNEL MPL-40 84CA

REV. NO. 3-509-330109 00

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



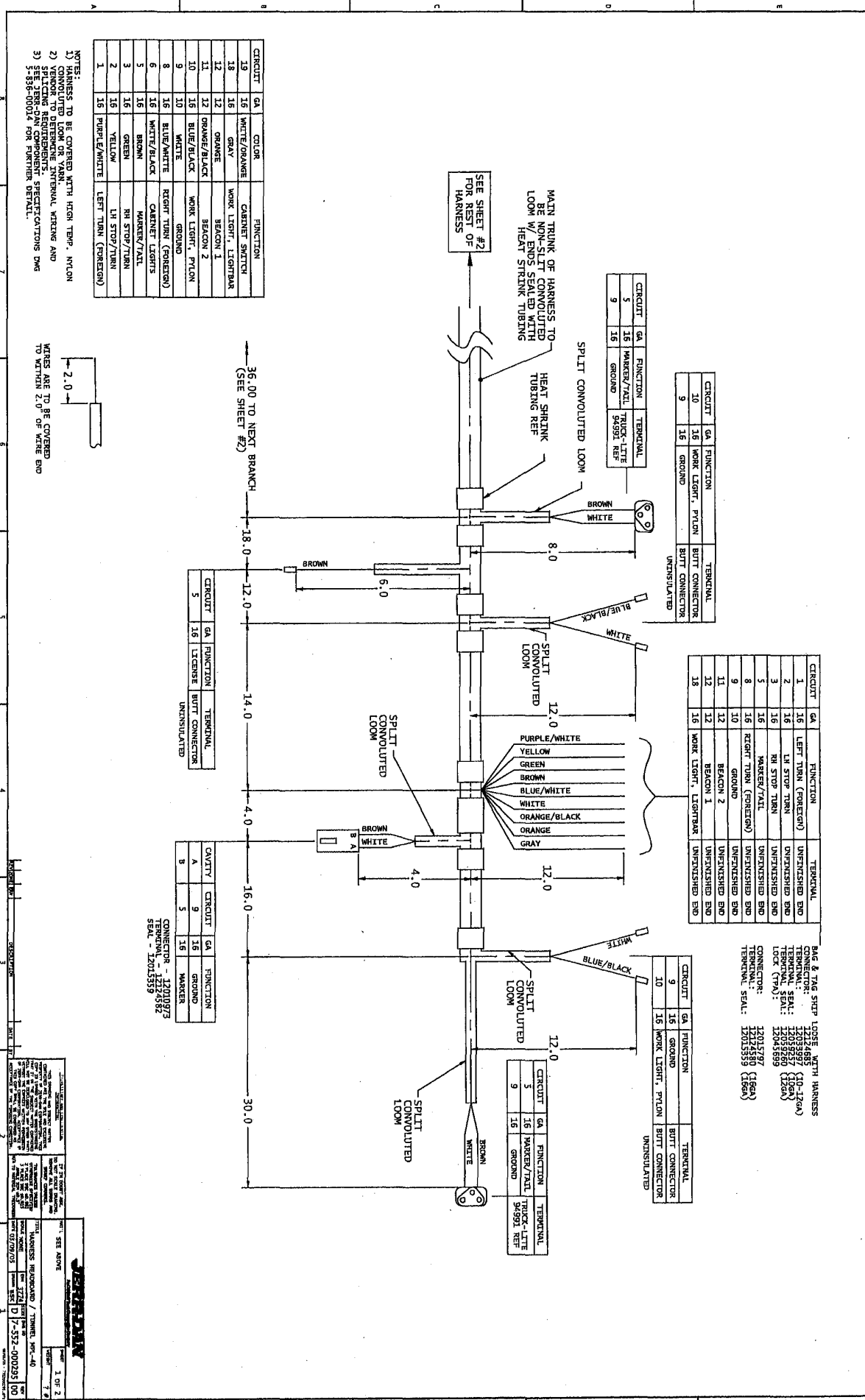
VIEW B-B



<p>REVISIONS</p> <table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td>1</td> <td>10/1/73</td> <td>ISSUED FOR PRODUCTION</td> </tr> </table>	NO.	DATE	DESCRIPTION	1	10/1/73	ISSUED FOR PRODUCTION	<p>DATE: 10/1/73</p> <p>BY: [Signature]</p> <p>APP: [Signature]</p>	<p>27 1/2" DIA. HOLES</p> <p>3/8" DIA. HOLES</p> <p>1/2" DIA. HOLES</p> <p>1/4" DIA. HOLES</p> <p>1/8" DIA. HOLES</p> <p>1/16" DIA. HOLES</p>	<p>REV. NO. 3-509-330109 00</p>
NO.	DATE	DESCRIPTION							
1	10/1/73	ISSUED FOR PRODUCTION							

HARNNESS HEADBOARD / TUNNEL MPL-40

DATE: 7-5552-000295 00



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) HARNNESS TO BE COVERED WITH HIGH TEMP. NYLON
 2) VERIFY TO DETERMINE INTERNAL WIRING AND
 SPLICING REQUIREMENTS, SPECIFICATIONS ONE
 3) USE PROOF FOR PULVIN DETAIL.

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

CIRCUIT	GA	FUNCTION	TERMINAL
10	16	GROUND	TERMINAL
9	16	GROUND	BUTT CONNECTOR

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

MAC & TAG SHEET 10521 WITH HARNNESS
 CONNECTOR: 12124685
 TERMINAL: 12039827 (10-12GA)
 TERMINAL SEAL: 12039850 (12GA)
 LOCK (TPA): 12045599
 CONNECTOR: 12015797 (18GA)
 TERMINAL: 12124580 (18GA)
 TERMINAL SEAL: 12015559 (18GA)

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

CIRCUIT	GA	FUNCTION	TERMINAL
5	16	MARKER/TAIL	TRUCK-LITE
9	16	GROUND	94991 REF

CIRCUIT	GA	FUNCTION	TERMINAL
5	16	LICENSE	BUTT CONNECTOR

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

CONNECTOR - 12015797
 TERMINAL - 12124580
 SEAL - 12015559

JEFFERSON

10000 W. 10TH AVE
 DENVER, CO 80202
 TEL: 303-733-1000
 FAX: 303-733-1001

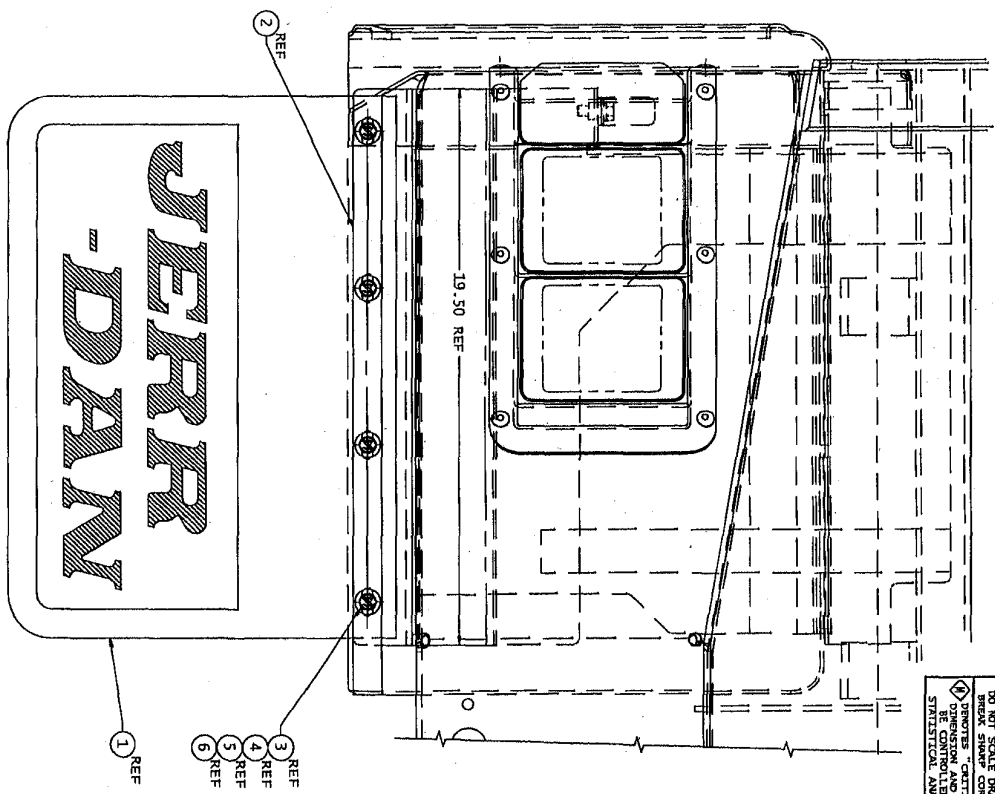
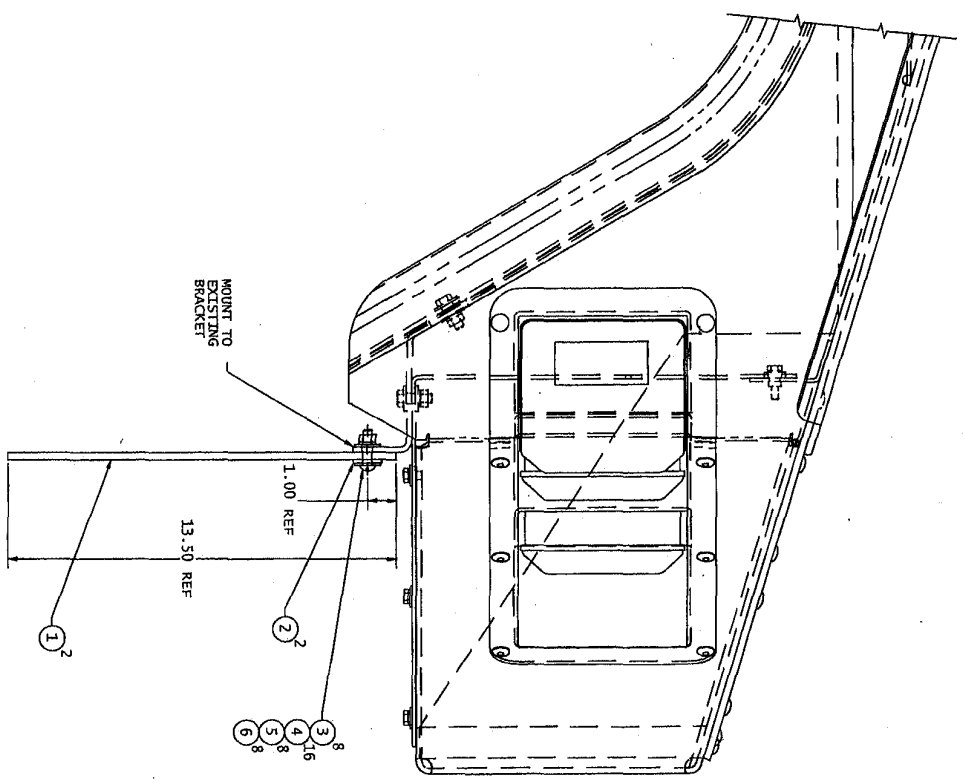
DATE: 7-5552-000295 00

REV: 1 OF 2

PROJECT: HARNNESS HEADBOARD / TUNNEL MPL-40

DATE: 07/29/03

REV: 1

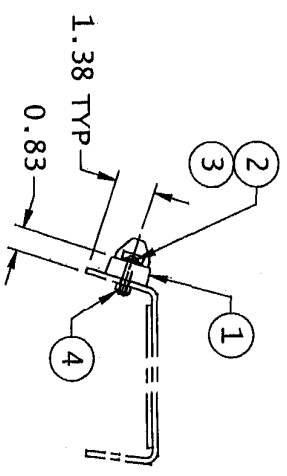
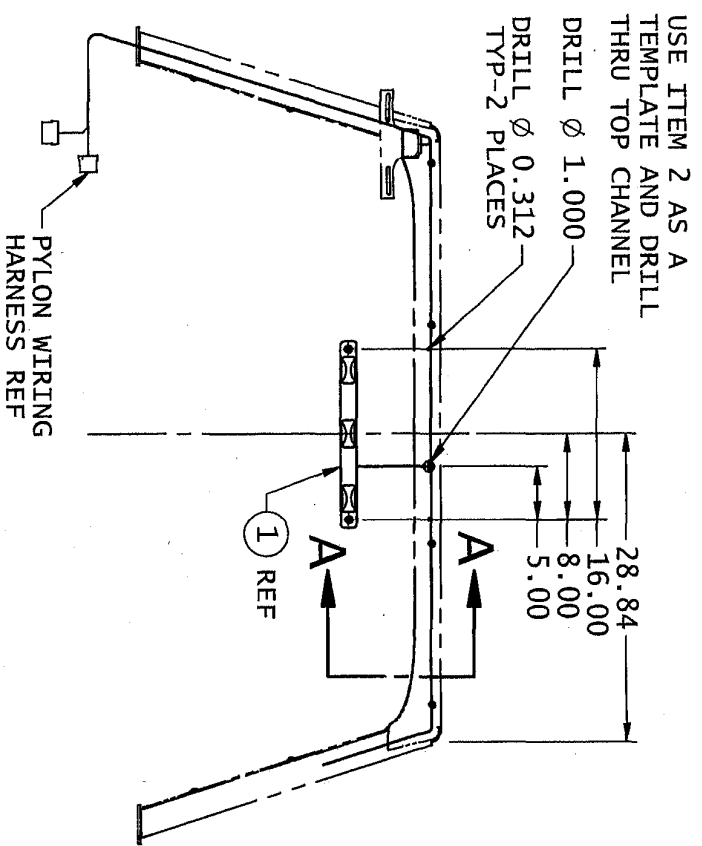


ASSEMBLY OF REAR LEFT SIDE SHOWN
 REAR RIGHT SIDE ASSEMBLY SYMMETRICAL

GENERAL NOTES
 DO NOT SCALE DRAWING
 BREAK SHOWN CORRECT
 DIMENSIONS
 DIMENSIONS OF PARTS
 BE CONTROLLED BY
 STATISTICAL ANALYSIS

REV	BY	DATE	DISCREPANT

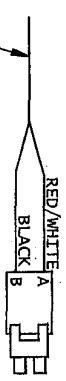
TRANSMISSION MODEL 1758 1758 1758	MAKE SEE B/W 1758 1758 1758	PART MOUNTING INST'L, GR40 1758 1758 1758	QUANTITY 1 1 1	ORIGINAL 1758 1758 1758
-----------------------------------------------	-----------------------------------------	-------------------------------------------------------	-------------------------	----------------------------------



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
SEAL - 12124582
TERMINAL - 12015359



1 REF

PYLON WIRING HARNESS REF

REV	ZONE	ENR	DESCRIPTION	DATE	BY
2					

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TOLERANCES UNLESS OTHERWISE SPECIFIED:
2 PLACE DEC 40.002
3 PLACE DIM 40.5
N/A TO UNIVERSAL THICKNESS

JERRIDAN
A Division of The Cooper Companies

WPT: SEE B/M

TITLE: LIGHT INSTALL IDENTIFICATION 3 BAR

SCALE: NTS

DATE: 03/23/05

REV: 3774

SIZE: DWG NO. 2-590-000164

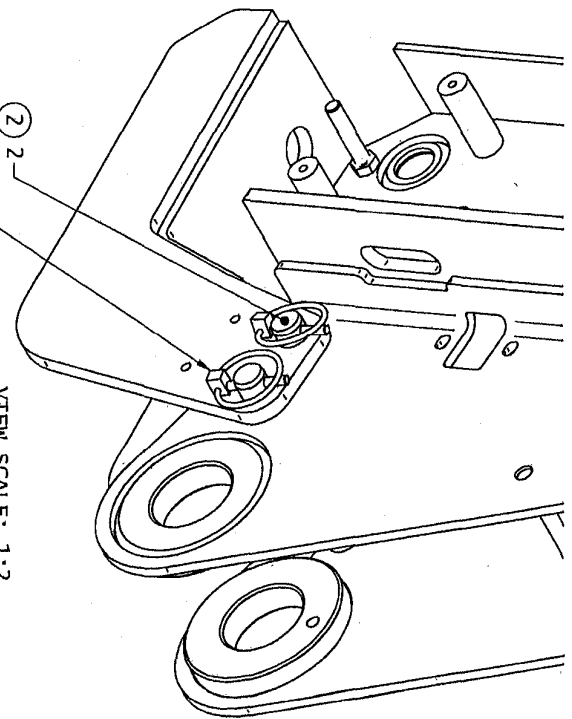
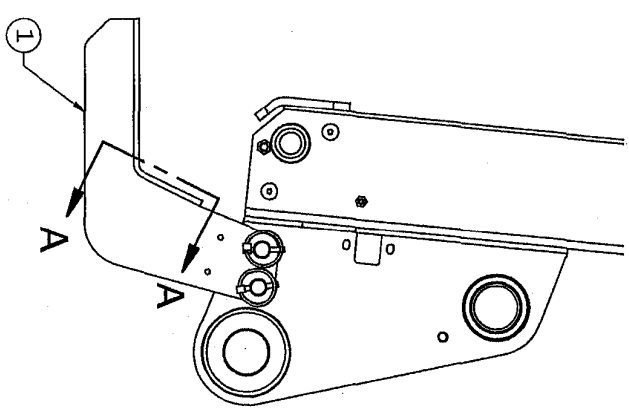
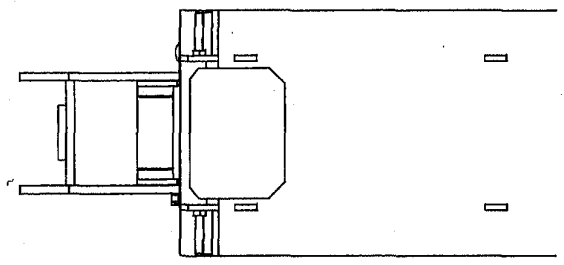
REV: 00

SHEET: 1 OF 1

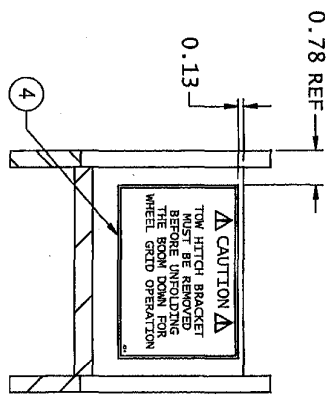
WEIGHT: 2 #

HITCH ASSY TOW BALL MPL-40

DRWG NO 3-590-80U104 REV 00



VIEW SCALE: 1:2



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

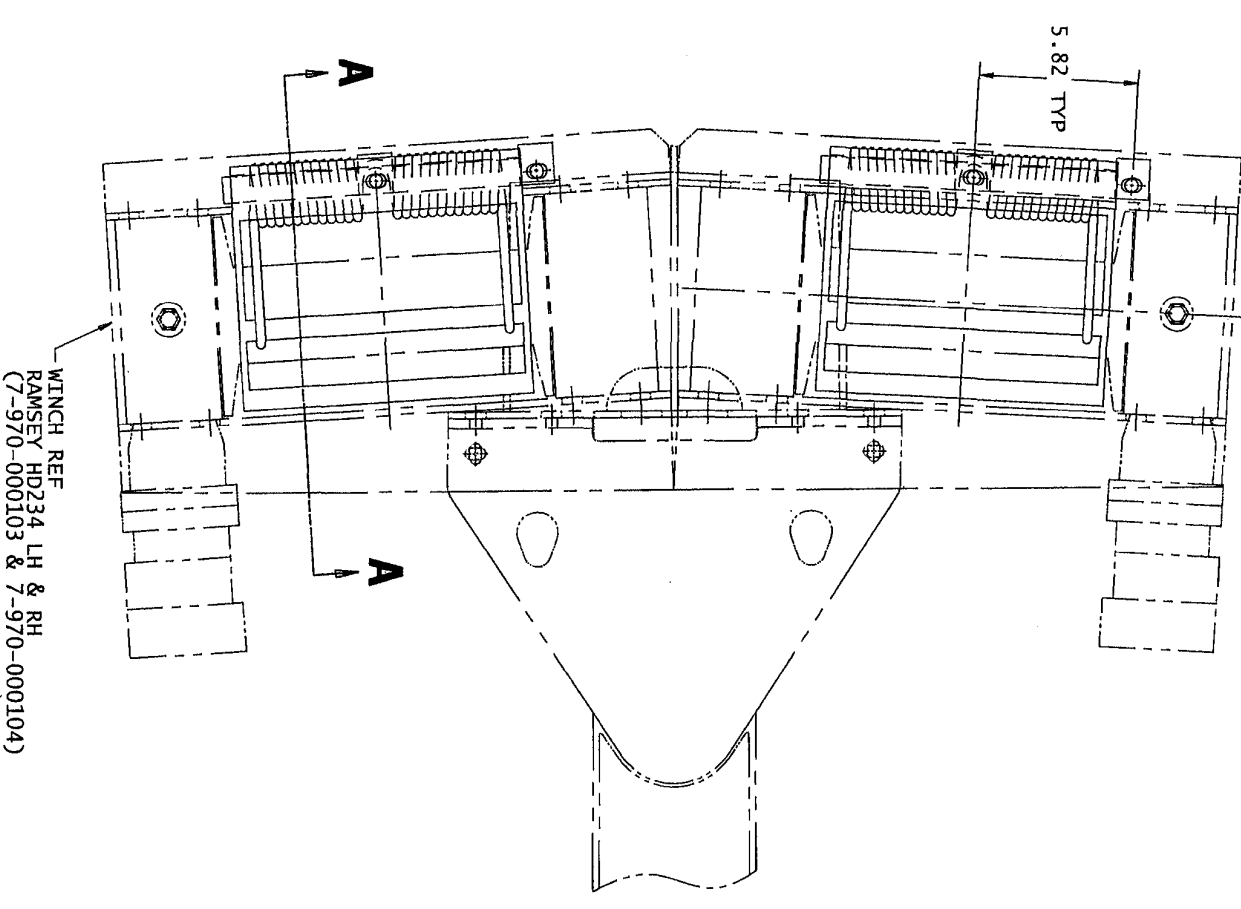
<p>REVISIONS</p> <table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> <tr> <td>1</td> <td>02/25/05</td> <td>REVISED TO REFLECT CHANGES TO THE DRAWING</td> <td>JERRYDAY</td> </tr> </table>		NO.	DATE	DESCRIPTION	BY	1	02/25/05	REVISED TO REFLECT CHANGES TO THE DRAWING	JERRYDAY	<p>DATE: 02/25/05</p>
NO.	DATE	DESCRIPTION	BY							
1	02/25/05	REVISED TO REFLECT CHANGES TO THE DRAWING	JERRYDAY							
<p>DESCRIPTION</p> <p>HITCH ASSY TOW BALL MPL-40</p>		<p>DATE: 02/25/05</p>								
<p>BY: JERRYDAY</p>		<p>DATE: 02/25/05</p>								
<p>DATE: 02/25/05</p>		<p>DATE: 02/25/05</p>								
<p>DATE: 02/25/05</p>		<p>DATE: 02/25/05</p>								

SECTION A-A
VIEW SCALE: 1:2

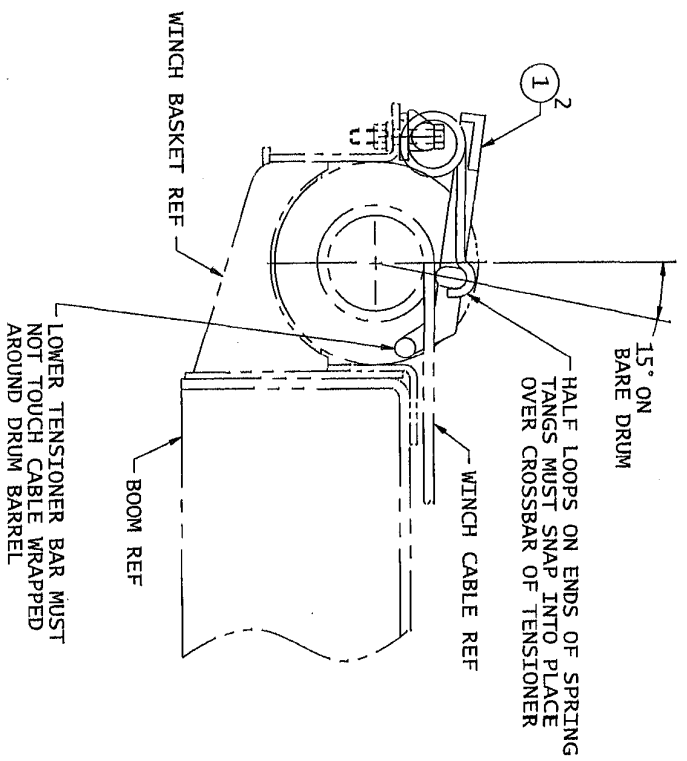
CABLE TENSORS BY MPL-40 RAMSEY HD234

DWG NO 3-249-102200 REV

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



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



SECTION A-A

REV	DESCRIPTION	DATE	BY
1	ISSUE FOR FABRICATION	1/27/05	JTB

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JERRI-DAN CO. 1000 N. 10TH ST. WYOMING, WY 83001

TITLE: CABLE TENS ASSY MPL-40 RAMSEY HD234

SCALE: 0.31

DATE: 1/27/05

TRW: 3/74

TRW: 3/74

TRW: 3/74

TRW: 3/74

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TRW: 3/74

TRW: 3/74

TRW: 3/74



** Report Excludes Shrinkage.

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

Effective as of 08/04/05
Item: 2509740039

TUNNEL TOOLBOX INSTL MPL 40 24" WIDE

Reference: D/3774E

From Item: 2509740039
To Item: 2509740039
Last Changed Date:

Quantity 1 Receive into Whse: MYPT BIN: WA03 TOM: PC

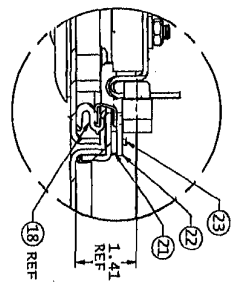
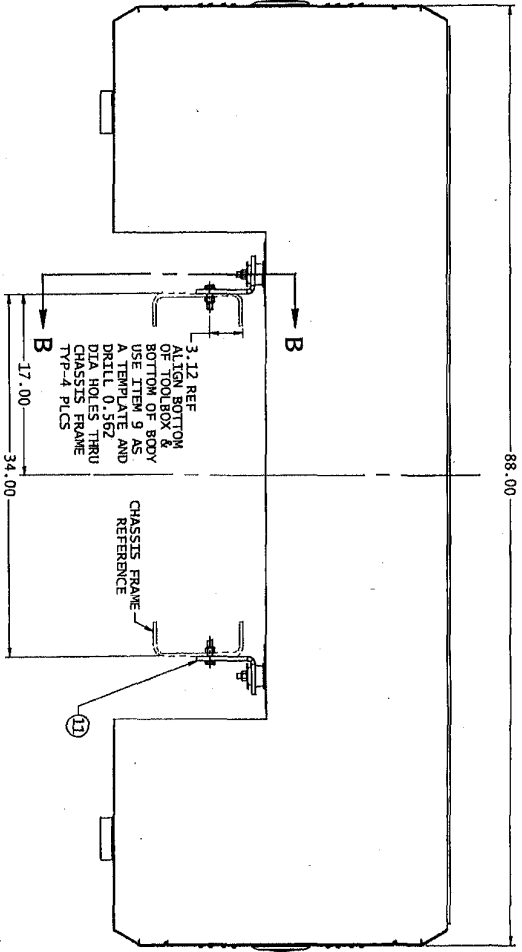
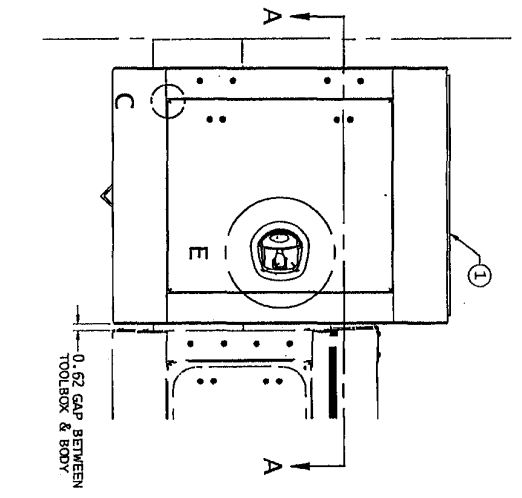
Ball Dr Bin

Ball Dr	Component	Type	Location	Description	QtyPer UOM	Reference	Effectivity
01	D	38990000121	M WA03	TUNNEL TOOLBOX WELD MPL 40 24"	1.000	PC	-
02	N	76360000005	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	40170000674	M t01	WA00 ANGLE 0.38 x 8.32 x 23.38	2.000	PC	-
10	B	46790000249	M WA03	PAD 0.19 x 19.31 x 23.25 RUBBER	2.000	PC	-
11	B	46790000250	M WA03	PAD 0.19 x 21.50 x 46.00 RUBBER - CENTER	1.000	PC	-
12	B	75550000012	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	79490000056	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	46860000208	M AS14	PANEL 0.12 x 18.92 x 21.93 DOOR TBX	2.000	PC	-
18	B	46320000053	M WA03	SEAL DOOR x 69.00	2.000	PC	-
19	C	75850000019	P n-floor	LATCH ERGONOMIC T HANDLE LH 1-8400-L-31	1.000	PC	-
20	C	75850000020	P n-floor	LATCH ERGONOMIC T HANDLE RH 1-8400-R-31	1.000	PC	-
21	A	40620000569	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	77590000006	P 000104	C20 POP RIVET .13"DIA X .50" GRIP ALUM	4.000	PC	-
24	N	76320046140	P	MOULDING #1750 G-DYNAMIC - 140" LG	1.000	Ft	-

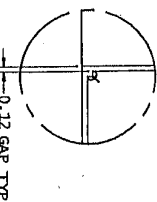
*** End of Item ***

*** End of Report ***

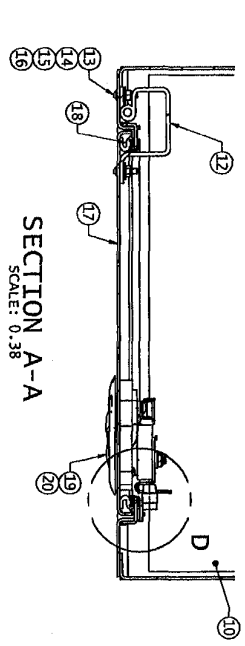
TUNNEL TOOLBOX INSTALL 24" WIDE MPL-40 DWG NO. 2-509-740039 01 REV



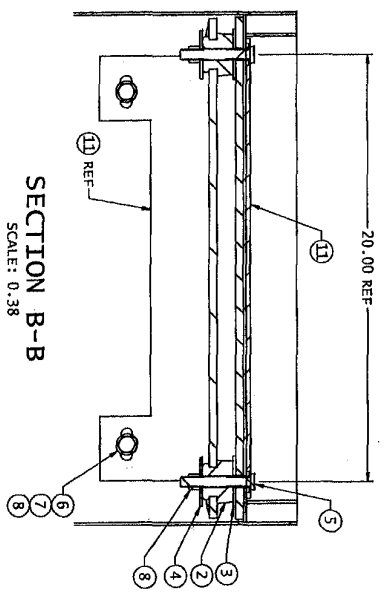
DETAIL D
SCALE: 0.75
ADJUST LATCH SO THAT WHEN DOOR IS CLOSED IT IS FLUSH WITH THE FRONT OF TOOLBOX



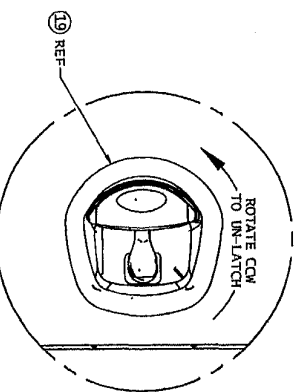
DETAIL C
SCALE: 0.75
0.12 GAP TYP ALL AROUND BOTH DOORS



SECTION A-A
SCALE: 0.38



SECTION B-B
SCALE: 0.38



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

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

NO.	QTY	DESCRIPTION	UNIT	REV
1	1	TOOLBOX	EA	1
2	1	DOOR	EA	1
3	1	LATCH	EA	1
4	1	HARDWARE	EA	1
5	1
6	1
7	1
8	1
9	1
10	1
11	1
12	1
13	1
14	1
15	1
16	1
17	1
18	1
19	1
20	1
21	1
22	1
23	1
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83	1
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87	1
88	1
89	1
90	1
91	1
92	1
93	1
94	1
95	1
96	1
97	1
98	1
99	1
100	1



** Report Excludes Shrinkage.

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

Effective as of 08/01/05
Item: 3870000018

SWITCH ASSY NO SWITCH PANEL MPL-40
Reference: X0748/3774B
Last Changed Date:

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

Revision #07/1/3774

Ball Dr Bin

Item	Qty	UOM	Reference	Effectivity		
01	B	2870000008	M RA08	SWITCH INST SINGLE ROCKER W/ LED INDICA	1.000 PC	-
02	N	7346000039	P dl4 g-floor jo	TUBING .25"ID HS W/ADHESIVE - 48" LG	2.000 pc	-
03	NOT	NOT	F	*****ITEM NOT REQUIRED*****	1.000 PC	-
04	NOT	NOT	F	*****ITEM NOT REQUIRED*****	1.000 PC	-
05	NOT	NOT	F	*****ITEM NOT REQUIRED*****	1.000 PC	-
06	NOT	NOT	F	*****ITEM NOT REQUIRED*****	1.000 PC	-
07	NOT	NOT	F	*****ITEM NOT REQUIRED*****	1.000 PC	-
08	NOT	NOT	F	*****ITEM NOT REQUIRED*****	1.000 PC	-
09	NOT	NOT	F	*****ITEM NOT REQUIRED*****	1.000 PC	-

*** End of Item ***

*** End of Report ***



An Oshkosh Truck Corporation Company

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

** Report Excludes Shrinkage.
Effective as of 08/01/05
Item: 3870000020

SWITCH ASSY 6 FUNC INDASH 05 FORD
Reference: X0748/3774E
Last Changed Date:

Quantity 1
Receive into Whse: MYPT
BIN: WA03
DOM: PC

Revision #0/1/3774

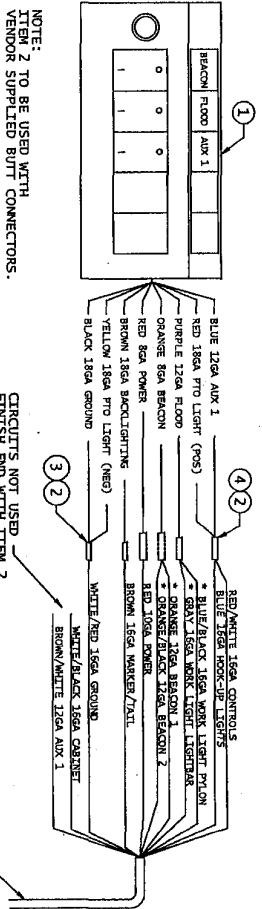
From Item: 3870000020
To Item: 3870000020

Ball Dr	Bin	Description	QtyPer UOM	Reference	Effectivity
01	B	7870000117 SWITCH PANEL IN-DASH 6 FUNCTION THERMAL	1.000	PC	-
02	N	7346000039 P d14 9-floor jo 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 G19 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	-

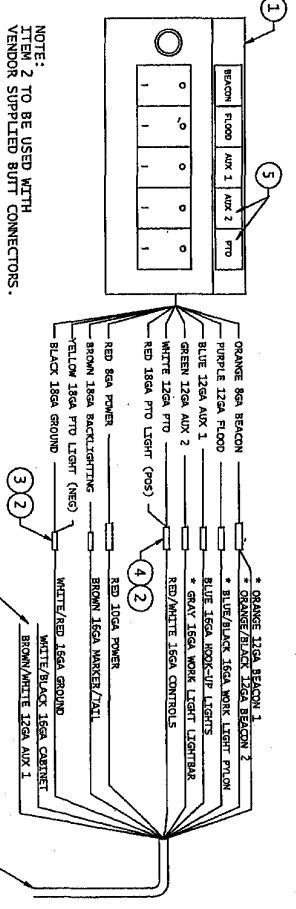
*** End of Item ***

*** End of Report ***

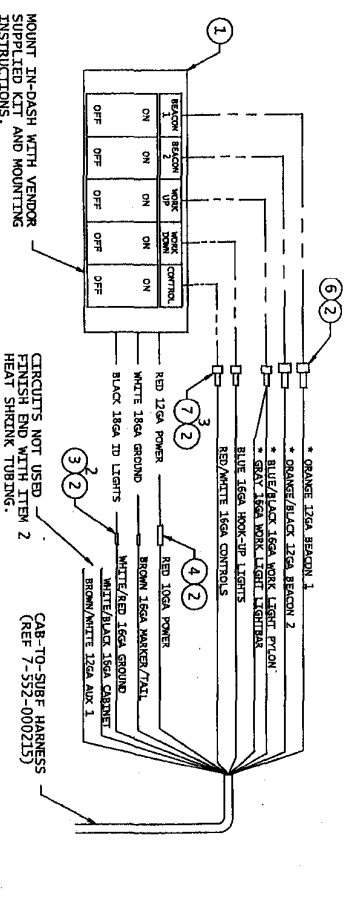
ELECTRICAL ASSY SWITCH PANEL SELF LOADER 5-264-00074801



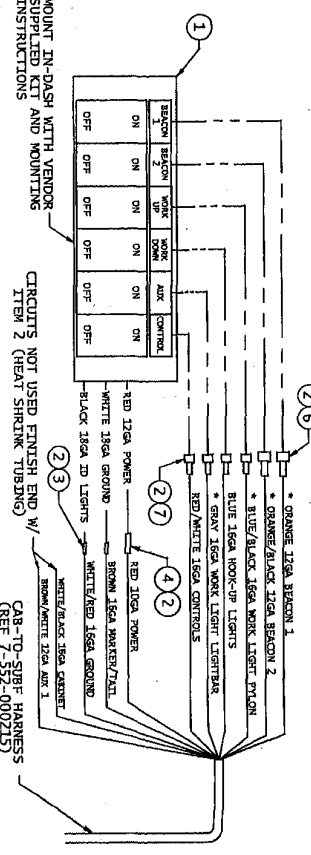
3 FUNCTION UNDER DASH (REF 7-870-000053)



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



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



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	CLUNG SHIP
14	16	RED/WHITE	CONTROLS
13	10	RED	WPT C270
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

PART #	DESCRIPTION
3-870-000019	SWITCH PANEL ASSY 4 FUNC IN-DASH (OBM) FORD
3-870-000018	SWITCH PANEL ASSY NO SWITCH PANEL WPT-40
3-870-000017	SWITCH PANEL ASSY 4 FUNC IN-DASH (OBM) FORD
3-870-000016	SWITCH PANEL ASSY NO SWITCH PANEL
3-870-000020	SWITCH PANEL ASSY 6 FUNC IN-DASH (2005) FORD
3-870-000015	SWITCH PANEL ASSY 6 FUNC IN-DASH (2004) FORD
3-870-000014	SWITCH PANEL ASSY 5 FUNC IN-DASH (2004) FORD
3-870-000013	SWITCH PANEL ASSY 5 FUNC UNDER-DASH
3-870-000012	SWITCH PANEL ASSY 3 FUNC UNDER-DASH

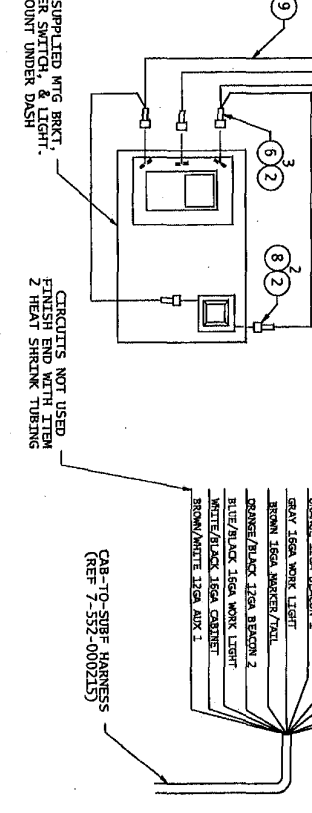
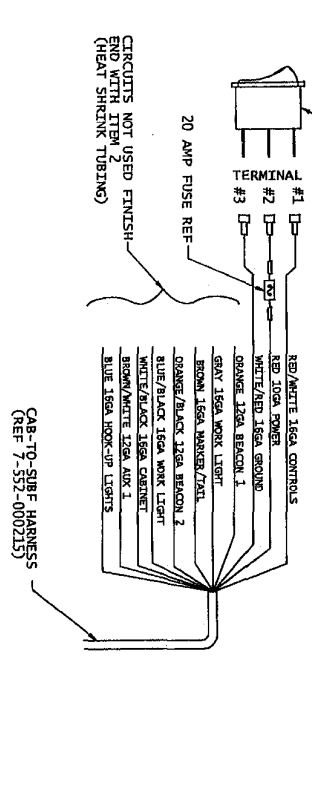
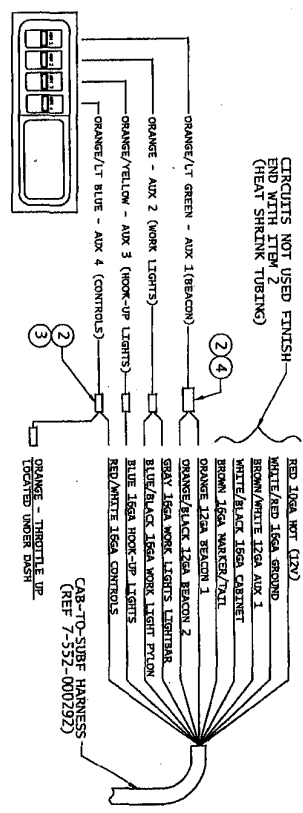
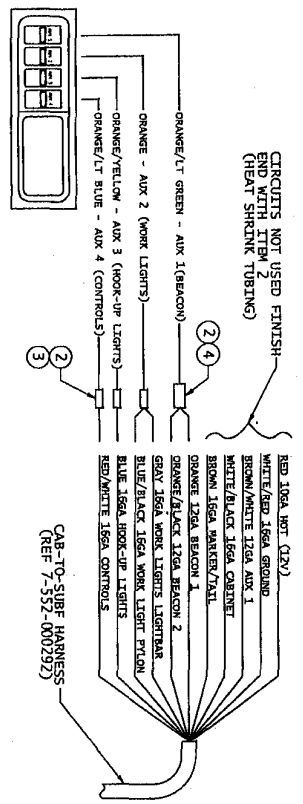
NOTE:
OPTIONAL ITEMS, WIRE AS REQUIRED

ITEM NO.	DESCRIPTION	QTY
1	WPT-40 ONLY	1
2	WPT-40 ONLY	1

DATE	BY	DESCRIPTION
07/27/04		REVISION 1 OF 2
07/27/04		REVISION 1 OF 2

REVISION 1 OF 2
ELECTRICAL ASSY SWITCH PANEL SELF LOADER
5-264-00074801

ELECTRICAL ASSY SWITCH PANEL SELF LOADER DWG NO 5-264-00074801



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

NO SWITCH PANEL
 QP-40 ONLY

ITEM	DESCRIPTION	QTY	UNIT
1	WIRING HARNESS	1	EA
2	WIRING HARNESS	1	EA
3	WIRING HARNESS	1	EA
4	WIRING HARNESS	1	EA
5	WIRING HARNESS	1	EA
6	WIRING HARNESS	1	EA
7	WIRING HARNESS	1	EA
8	WIRING HARNESS	1	EA
9	WIRING HARNESS	1	EA
10	WIRING HARNESS	1	EA
11	WIRING HARNESS	1	EA
12	WIRING HARNESS	1	EA
13	WIRING HARNESS	1	EA
14	WIRING HARNESS	1	EA
15	WIRING HARNESS	1	EA
16	WIRING HARNESS	1	EA
17	WIRING HARNESS	1	EA
18	WIRING HARNESS	1	EA
19	WIRING HARNESS	1	EA
20	WIRING HARNESS	1	EA
21	WIRING HARNESS	1	EA
22	WIRING HARNESS	1	EA
23	WIRING HARNESS	1	EA
24	WIRING HARNESS	1	EA
25	WIRING HARNESS	1	EA
26	WIRING HARNESS	1	EA
27	WIRING HARNESS	1	EA
28	WIRING HARNESS	1	EA
29	WIRING HARNESS	1	EA
30	WIRING HARNESS	1	EA
31	WIRING HARNESS	1	EA
32	WIRING HARNESS	1	EA
33	WIRING HARNESS	1	EA
34	WIRING HARNESS	1	EA
35	WIRING HARNESS	1	EA
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37	WIRING HARNESS	1	EA
38	WIRING HARNESS	1	EA
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41	WIRING HARNESS	1	EA
42	WIRING HARNESS	1	EA
43	WIRING HARNESS	1	EA
44	WIRING HARNESS	1	EA
45	WIRING HARNESS	1	EA
46	WIRING HARNESS	1	EA
47	WIRING HARNESS	1	EA
48	WIRING HARNESS	1	EA
49	WIRING HARNESS	1	EA
50	WIRING HARNESS	1	EA



An Oshkosh Truck Corporation Company

** Report Excludes Shrinkage.

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

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:

Quantity 1 Receive into Warehouse: MYPT

Revision #0/0 BIN: WA03

DOM: PC

Ball Dr Bin

-com Sz Component Type Location Description

QtyPer DOM Reference Effectivity

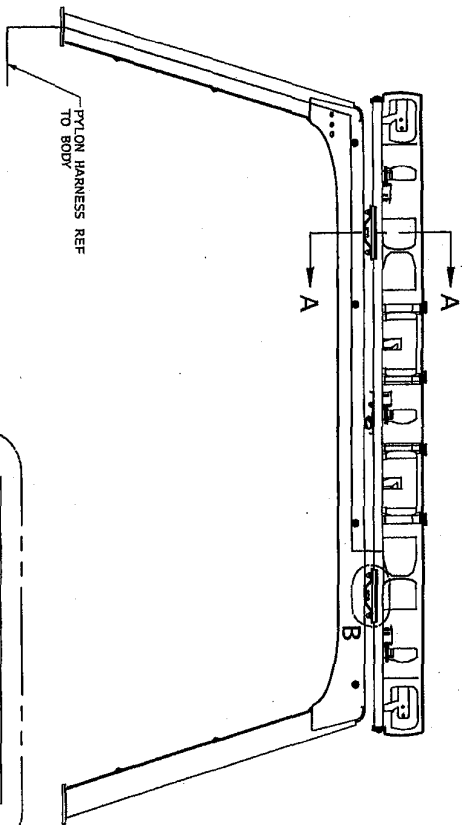
Item	Ball Dr	Bin	Component	Type	Location	Description	QtyPer	DOM	Reference	Effectivity
01	B	7590000229	P	loft SR-Annex	LIGHTBAR 60" 6-STRB/4-FLSHR (FED SIG)	1.000	PC	-	-	-
02	B	4178000402	M	100201 h06 RAO	BRACKET 10GA X 1.50 X 5.45 LIGHTBAR MNT	2.000	PC	-	-	-
03	N	7115181050	P	080305 a48 x01	CAPSCREW .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-1floor j0	TUBING .25" ID HS W/ADHESIVE - 48" LG	.125	pc	-	-	-

*** End of Item ***

*** End of Report ***

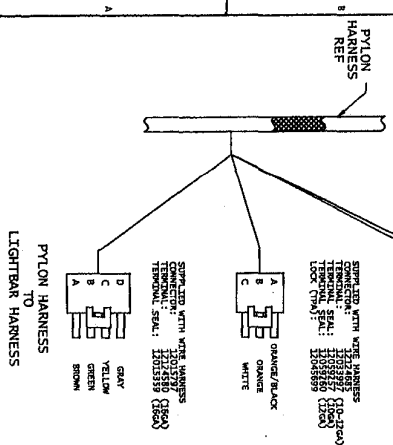
LIGHT INSTALL EMERGENCY BAR MPL-40

REV NO 5-264-000827 00



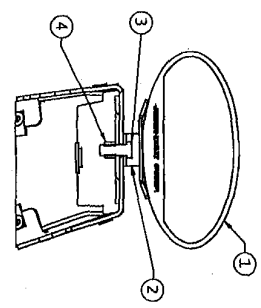
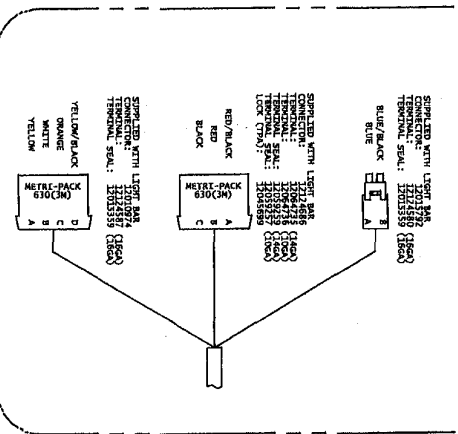
WIRE HARNESS INFO.

INCOMING CABLE	OPTION	WIRE
WHITE	COMMON GROUND	10 GA. WIRE
RED	RED	14 GA. WIRE
YELLOW	YELLOW	14 GA. WIRE
GRAY	GRAY	14 GA. WIRE
GREEN	GREEN	14 GA. WIRE
BROWN	BROWN	14 GA. WIRE
BLACK	BLACK	14 GA. WIRE
BLUE/BLACK	BLUE/BLACK	14 GA. WIRE
BLUE/WHITE	BLUE/WHITE	14 GA. WIRE

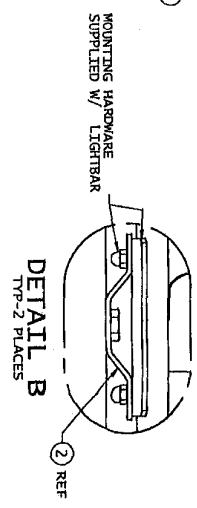


LIGHT BAR WIRE INFO.

INCOMING CABLE	OPTION	WIRE
WHITE	COMMON GROUND	10 GA. WIRE
RED	RED	14 GA. WIRE
YELLOW	YELLOW	14 GA. WIRE
GRAY	GRAY	14 GA. WIRE
GREEN	GREEN	14 GA. WIRE
BROWN	BROWN	14 GA. WIRE
BLACK	BLACK	14 GA. WIRE
BLUE/BLACK	BLUE/BLACK	14 GA. WIRE
BLUE/WHITE	BLUE/WHITE	14 GA. WIRE

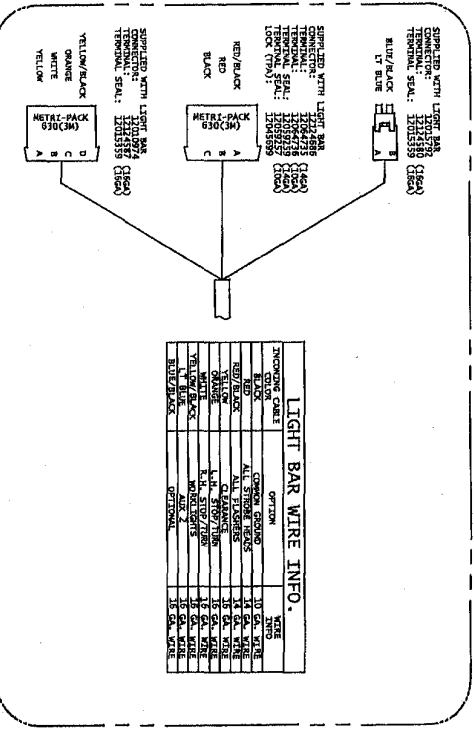


SECTION A-A



LIGHT BAR WIRE INFO.

INCOMING CABLE	OPTION	WIRE
WHITE	COMMON GROUND	10 GA. WIRE
RED	RED	14 GA. WIRE
YELLOW	YELLOW	14 GA. WIRE
GRAY	GRAY	14 GA. WIRE
GREEN	GREEN	14 GA. WIRE
BROWN	BROWN	14 GA. WIRE
BLACK	BLACK	14 GA. WIRE
BLUE/BLACK	BLUE/BLACK	14 GA. WIRE
BLUE/WHITE	BLUE/WHITE	14 GA. WIRE



2-590-000163
STROBE LIGHT WIRING
TO PYLON HARNESS

2-590-000162
LIGHT INST. 907 BAR HALOGEN FED SIG MPL-40

2-590-000163
LIGHT INST. 907 BAR STROBE FED SIG MPL-40

2-590-000162
LIGHT INST. 907 BAR HALOGEN FED SIG MPL-40

2-590-000163
LIGHT INST. 907 BAR STROBE FED SIG MPL-40

REV 1 OF 1

REV 2 OF 2

REV 3 OF 3

REV 4 OF 4

REV 5 OF 5

REV 6 OF 6

REV 7 OF 7

REV 8 OF 8

REV 9 OF 9

REV 10 OF 10

REV 11 OF 11

REV 12 OF 12

REV 13 OF 13

REV 14 OF 14

REV 15 OF 15

REV 16 OF 16

REV 17 OF 17

REV 18 OF 18

REV 19 OF 19

REV 20 OF 20

REV 21 OF 21

REV 22 OF 22

REV 23 OF 23

REV 24 OF 24

REV 25 OF 25

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REV 84 OF 84

REV 85 OF 85

REV 86 OF 86

REV 87 OF 87

REV 88 OF 88

REV 89 OF 89

REV 90 OF 90

REV 91 OF 91

REV 92 OF 92

REV 93 OF 93

REV 94 OF 94

REV 95 OF 95

REV 96 OF 96

REV 97 OF 97

REV 98 OF 98

REV 99 OF 99

REV 100 OF 100



** Report Excludes Shrinkage.

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

Effective as of 08/19/05
Item: 2509610047

TOW SLING INSTALLATION MPL-40 DUAL LINE

From Item: 2509610047
To Item: 2509610047
Reference: X/00824/3774C Last Changed Date: 07/28/05

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

Ball Dr Bin

Item	Sz	Component	Type	Location	Description	Qty	Per 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	U-JOINT WELDMENT	2.000	PC		
03		7115223806	P	080303	BOLT .63"-11NC X 4.75" HEX SHOULDER	2.000	pc		
04	N	7660202601	P	080304	LOCKNUT .63"-11NC NYLON INSERT ZINC PLAT	2.000	PC		
05	C	3020000007	M	090204	HOLD BACK ARM ASSEMBLY	2.000	PC	3858	08/16/05-
06		DEL	M		*****ITEM DELETED*****	1.000	PC	3858	08/16/05-
07	N	7105223050	P		CAPSCREW .75"-16NF X 3.75" HEX HEAD	2.000	pc	3858	08/16/05-
08	A	7661000017	P	080305	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	BOLT .38"-16NC X 1.25 CARRIAGE	4.000	PC	3858	08/16/05-
11	N	7950160161	P	000104	FLATWASHER .38" NOM WIDE - PLATED	8.000	PC	3858	08/16/05-
12		DEL	M		*****ITEM DELETED*****	1.000	PC	3858	08/16/05-
13		DEL	M		*****ITEM DELETED*****	1.000	PC	3858	08/16/05-
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	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		CAPSCREW 0.38-16 X 4.00 BT HD SOC	6.000	PC		
21	N	7660162601	P	000105	X01 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	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-



** Report Excludes Shrinkage.
 Effective as of 08/19/05
 Item: 2509610059

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

TOW SLING INSTALL MPL-40 SINGLE LINE
 Reference: X/00824/3774C Last Changed Date: 07/28/05

Quantity 1 Receive into Whse: MYPT Revision #C/2/3858 UOM: PC
 BIN: WA03

Ball Dr	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	BOLT .63"-11NC X 4.75" HEX SHOULDER	2.000 PC		-
04	N	7660202601	P 080304	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		DEL	M	*****ITEM DELETED*****	1.000 PC	3858	08/16/05-
07	N	7105223050	P	CAPSCREW .75"-16NF X 3.75" HEX HEAD	2.000 PC	3858	08/16/05-
08	A	7661000017	P 080305 A122	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 RML	BOLT .38"-16NC X 1.25 CARRIAGE	4.000 PC	3858	08/16/05-
11	N	7950160161	P 000104 X01	FLATWASHER .38" NOM WIDE - PLATED	4.000 PC	3858	08/16/05-
12		DEL	M	*****ITEM DELETED*****	1.000 PC	3858	08/16/05-
13		DEL	M	*****ITEM DELETED*****	1.000 PC	3858	08/16/05-
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	CAPSCREW 0.38-16 x 4.00 BT HD SOC	6.000 PC		-
21	N	7660162601	P 000105 X01	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	CAPSCREW .38"-16NC X 1.50" HEX HEAD	10.000 PC	3858	08/16/05-
28		7804000001	F 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 *****

From Item: 2509610059

To Item: 2509610059

Last Changed Date: 07/28/05

** Report Excludes Shrinkage.

Effective as of 08/19/05

Item: 2509610059

TOW SLING INSTALL MPL-40 SINGLE LINE

Reference: X/00824/3774C

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

Ball Dr Bin

Comp	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	MDFL	BRACKET 0.38 X 4.68 X 6.80 LH	1.000	PC	3858	08/16/05-
36		C 4178000625	M	MDFL	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		DECAL TOW SLING POSITION INDICATOR	2.000	PC	3858	08/16/05-

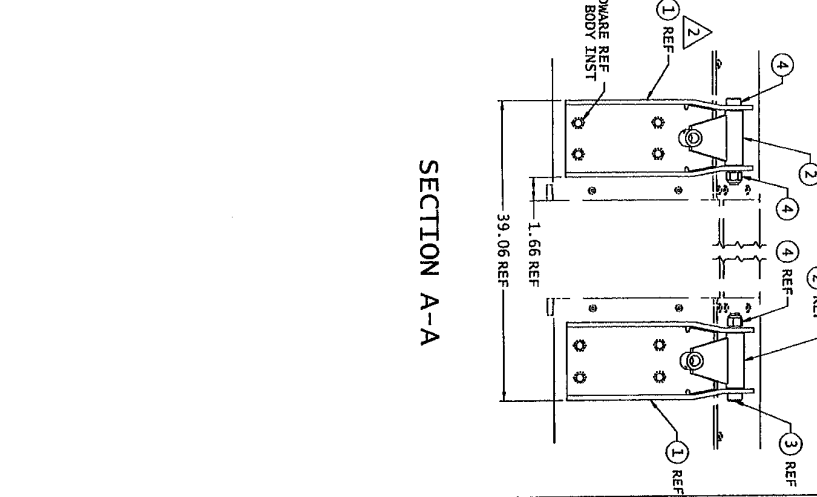
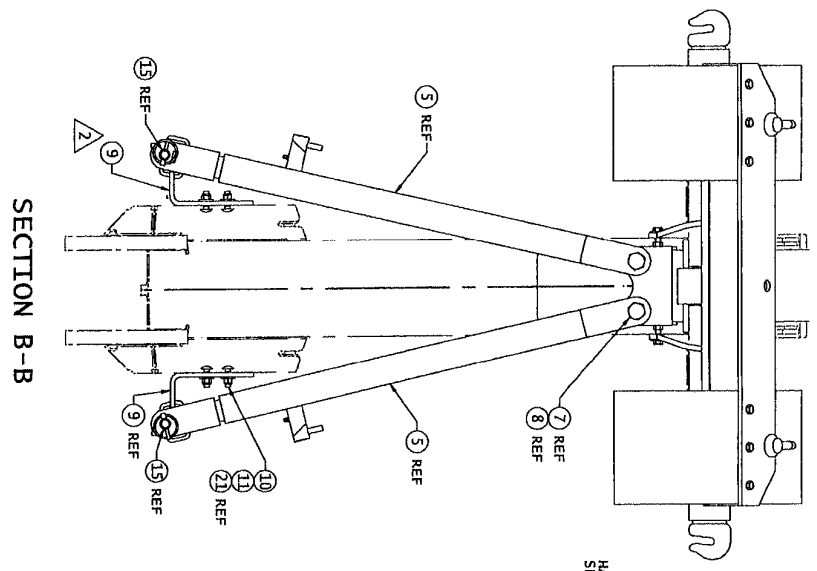
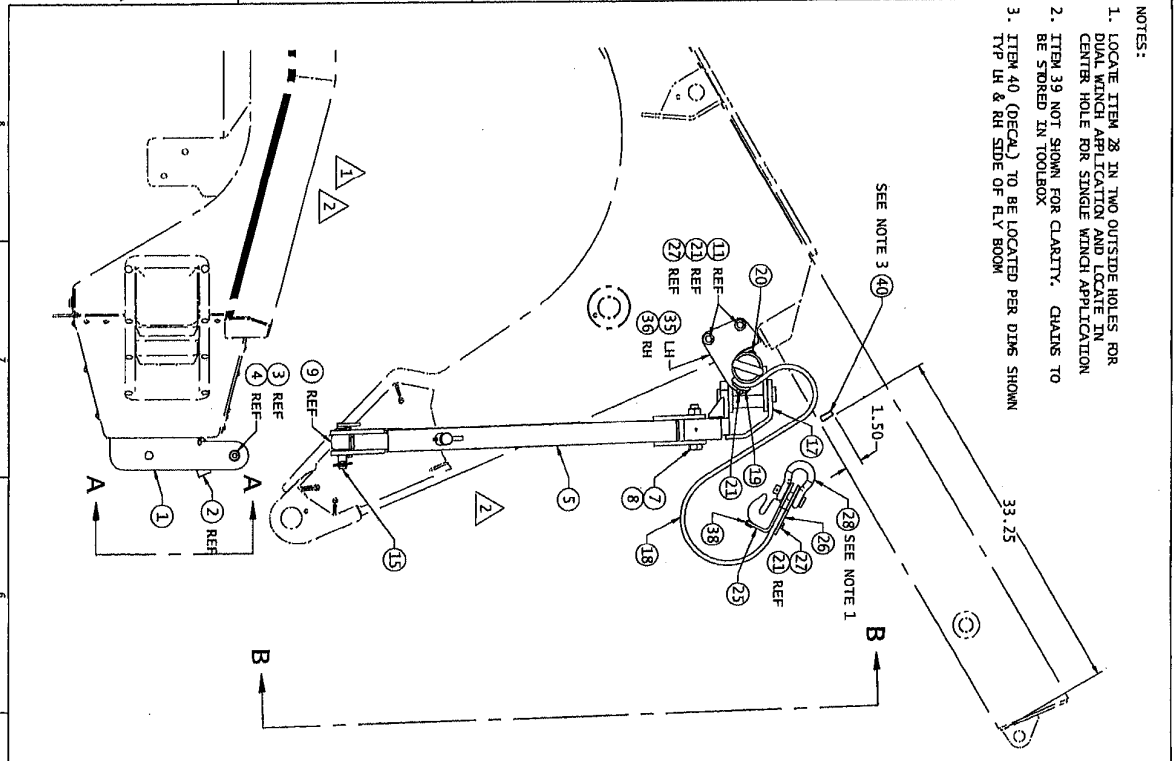
*** End of Item ***

*** End of Report ***

TOW SLING INSTALLATION MPL-40

DWG NO. 5-264-000824 02 REV

- 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 (DECA) TO BE LOCATED PER DIMS SHOWN



REV	DATE	DESCRIPTION
1	11/27/73	ISSUED FOR PRODUCTION
2	12/10/73	REVISED TO ADD DIMENSIONS AND NOTES
3	1/15/74	REVISED TO ADD DIMENSIONS AND NOTES
4	2/10/74	REVISED TO ADD DIMENSIONS AND NOTES
5	3/10/74	REVISED TO ADD DIMENSIONS AND NOTES
6	4/10/74	REVISED TO ADD DIMENSIONS AND NOTES
7	5/10/74	REVISED TO ADD DIMENSIONS AND NOTES
8	6/10/74	REVISED TO ADD DIMENSIONS AND NOTES
9	7/10/74	REVISED TO ADD DIMENSIONS AND NOTES
10	8/10/74	REVISED TO ADD DIMENSIONS AND NOTES
11	9/10/74	REVISED TO ADD DIMENSIONS AND NOTES
12	10/10/74	REVISED TO ADD DIMENSIONS AND NOTES

2-606-610047 TOW SLING INSTALL DUAL LINE MPL-40
 2-606-610056 TOW SLING INSTALL SINGLE LINE MPL-40

JEFFERSON

