

**FUNK
MANUFACTURING
COMPANY**



PARTS LIST

SPEC YZ 16063 MODEL DF3R2A

PHONE: (316) 252-3400 FAX: (316) 252-3252 / BOX 577 / COFFEYVILLE, KANSAS 67337

FUNK MANUFACTURING

This parts list is divided into two sections, which are Bill of Material and drawing documents. The drawings are listed either in build level sequence directly associated to B/M levels or in alpha-numerical order. The drawing documents can be found in the back of the parts book following the B/M.

The B/M represents the stage or levels at which the transmission is assembled. These levels also refer to the reference numbers on the supporting drawings.

The drawings which support these build levels can be found in the information narrative on the right side of the B/M. The drawing will be listed as "asm per" followed by a drawing number, or if it uses the drawing number of the component part number it will be listed as a "drawing" in the narrative. When the word "drawing" appears in the information narrative, you will only find a drawing in the book if the component parts are serviceable.

To determine the part number of the required part, look through the drawings and locate the part needed. Then note the drawing number in the lower right hand corner and the reference number of the particular part required. Now go to the B/M listing and find that drawing number appears in the "asm per" narrative or in the component part column when "drawing" is used as the narrative. Now the part number can be determined by dropping down to the next build level and matching the reference number noted from the drawing with the right hand portion of the reference number on the Bill of Material.

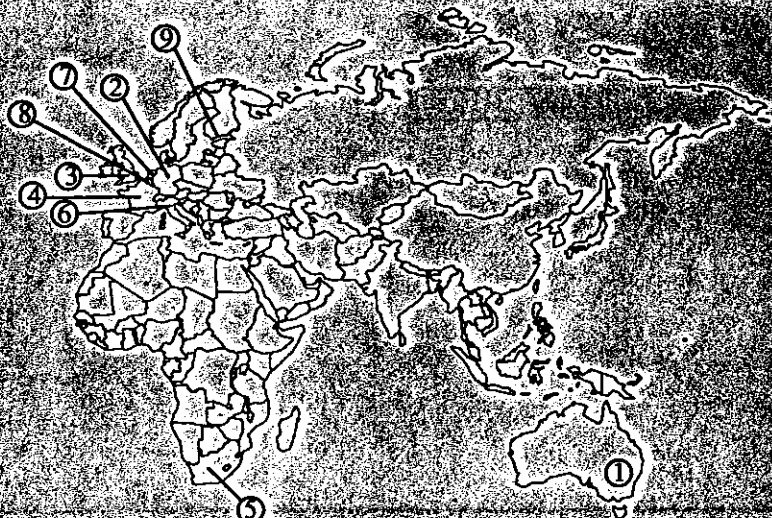
EXAMPLE:

1	(1st level)	XXXXXXX	ASM FRT CVR SERV	1.00
			**ASM PER XXXXXXXX	
1-1	(2nd level)	XXXXXXX	ASM FRT CVR SERV	1.00
			REPL XXXXX FOR SERV.	
			**ASM PER XXXXXXXX	
			N/A XXXXX & XXXXX SEL	
1-1-1	(3rd level)	XXXXXXX	CVR.FRT ASM SERV	1.00
			REPL XXXXX FOR SERV.	
			**ASM PER XXXXXXXX	
			N/A XXXXX & XXXXX SEL	
			(NON SERVICEABLE DETAILS)	
1-1-2	(3rd level)	XXXXXXX	SEAL RING	1.00
1-1-3	(3rd level)	XXXXXXX	COVER, OIL PASSAGE	1.00
1-1-4	(3rd level)	XXXXXXX	CAPSCREW	3.00
1-1-5	(3rd level)	XXXXXXX	ASM, VLV CONV	1.00
			DRAWING (NON SERVICEABLE	
			DETAILS ASM DWG NOT INCL)	
1-1-6	(3rd level)	XXXXXXX	PLUG PIPE	1.00
3	(1st level)	XXXXXXX	CONV. ASM 12.75	1.00
			DRAWING	
3-1	(2nd level)	XXXXXXX	IMPELLER CONVERTER	1.00
3-2	(2nd level)	XXXXXXX	HUB, IMPELLER	1.00
3-3	(2nd level)	XXXXXXX	O RING	1.00
3-4	(2nd level)	XXXXXXX	CAPSCREW	12.00

** SUPPORT DRAWING



INTERNATIONAL DISTRIBUTORS



INTERNATIONAL DISTRIBUTORS

1. ASHLEY BENOIT & CO. PTY. LTD.

Unit 6, 13 Hoyle Avenue
P.O. Box 12
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Fax # (61)-29899-2313

Ashley Benoit
Steve Robinson
Greg Jones
Dave Holloway

2. ESCO EUGEN SCHMIDT UND CO GETRIEBE UND ANTRIEBSELEMENTE GMBH

Postfach 1741 - 53827 Troisdorf
Biberweg 10 - 53842 Troisdorf
Germany

Phone # 02241/4807-0
Fax # 02241/480710 und 403585
Ralph Hyde - Unit Sales
Helmut Scheidler - Parts & Service

3. MITCHELL DIESEL LTD.

Fulwood Road South
Fulwood Industrial Estate
Sutton-in-Ashfield
Nottingham, U.K. NG172JZ
Phone # (44)-1623-550550
Fax # (44)-1623-440988
Jackie Crossland - Sales
Richard Lowe - Service

4. ESCO S.A. TRANSMISSIONS

Zone Industrielle
Rue Ferme Saint-Ladre B.P. 23
Saint Witz-F-95470 Fosses
France
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Fax # (33)-13468-33-88
Trocheries

5. POWER TORQUE PTY. LTD.

P.O. Box 448
Bergvlei Transvaal 2012
South Africa
Phone # (27)-11-786-4247
Fax # (27)-11-440-1547
Charles Davidson

6. RAMA MOTORI S.P.A.

Via Agnoletti, 8
4200 Reggio Emilia
Italy
Phone # 0522 930 711
Fax # 0522 930 730
Giuseppe Migliore - Sales
Lorenzo Ligabye - Service

7. ESCO AANDRIJVINGEN B.V.

ONDERNEMINGSWEG 19
2404 HM ALPHEN AAN DE RIJN
The Netherlands
Phone # 172/43.64.54
Fax # 172/43.54.71
Herbert Hoeneveld

8. ESCO TRANSMISSIONS SA

CULLIGANLAAN, 3
1831 DIEGEM
Belgium
Phone # 02/720.48.80
Fax # 02/721.28.27
Edy De Backer

9. DAVID BROWN HYDRAULICS FINLAND OY

SIRRIKUJA, 3
SF-00949 HELSINKI
Finland
Phone # 09/34.94.522
Fax # 09/34.94.677
Jouke Mainola

PRODUCT SERVICE

John Bowman - Supervisor
Larry Anderson - Service Rep.
Steve Owen - Service Rep.
Bill Eck - Service Rep.

CUSTOMER SERVICE GROUP

Jim Kneedler - Supervisor
Sheryl Andrews - Secretary
Sandra Lewis - Tech Writer
Bill Tesh - Tech Writer

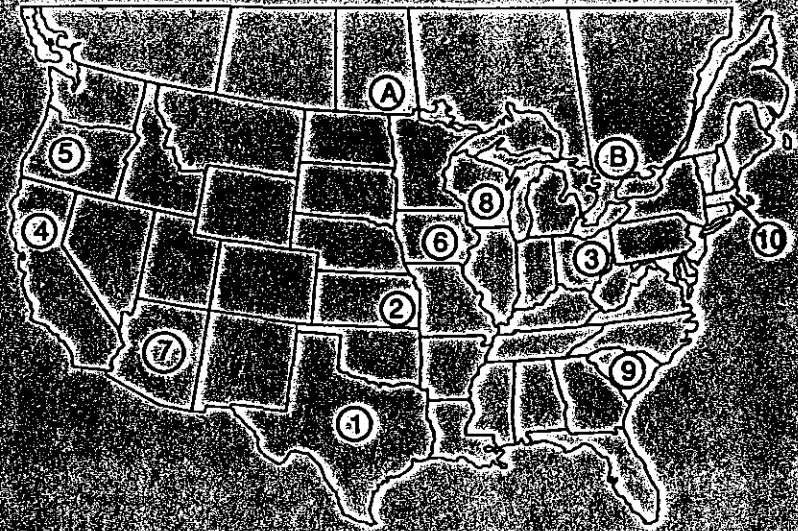
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INDUSTRIAL PARK, HWY 169 N., P.O. BOX 577, COFFEYVILLE, KANSAS 67337-0577
1-800-844-1337, FAX: (316) 252-3256 FOR UNIT SALES FAX: (316) 252-3253 FOR SERVICE PARTS



NORTH AMERICAN PUMP DRIVE DISTRIBUTORS



Pump Drive Distributors

06/97

1. CIA MACHINERY INC.

3199 West Danieldale St.
Lancaster, TX 75134
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Fax # 972-224-8204
Gary Brewer
Steve Simpson
Jesse Roberson
Ricky Roberson

2. DARWIN INDUSTRIES, INC

P. O. Box 251
Coffeyville, Ks 67337
Phone # 316-251-8438 or 800-447-2456
Fax # 316-251-8493
Steve Pitts
Cary Pitts
Giles Penick

3. HEARTLAND ENGINE COMPANY

884 Medina Road
Medina, Ohio 44256
Phone # 330-239-2242
Fax # 330-239-2672
Al Milton
Greg File
Kevin Draper

4. HYDRAULIC CONTROLS, INC.

3481 Industrial Drive
Yuba City, CA 95993
Phone # 916-674-0900
Fax # 916-674-9779
Butch Comer
Jim Tingler

5. MILL LOG EQUIPMENT CO.

90895 Roberts Rd. P.O. Box 8099
Coburg OR 97408
Phone # 541-485-2203
Fax # 541-485-8452
Doug Hoff
Mark Mrdalj

6. NORTHSTAR POWER CO.

700 SE Oralabor Rd. (Overnight delivery only)
2302 S. E. Hulsizer Rd.
Ankeny, IA 50021
Phone # 515-964-6100
Fax # 515-964-6119
George Kline
Tim Molloy

7. PALMER JOHNSON DIST., LLC

600 West Grant Street
Phoenix, AZ 85003
Phone # 602-258-3481
Fax # 602-257-8974
Patrick J. Scott

8. SUPERIOR DIESEL

1632 N. Stevens Street
P.O. Box 1187
Rhinelander, WI 54501
Phone # 715-369-5900
Fax # 715-369-5918
Mark Willis
Bryan Wendt

9. TRANSMISSION ENGINEERING CO.

591 Bryant Blvd.
Rock Hill, SC 29730
Phone # 803-366-2850 or 800-767-1801
Fax # 803-366-7128
Tony Calhoun
Harvey Eden

10. W.A. KRAFT CORP

191 Wildwood Avenue
P.O. Box 2189
Woburn, MA 01888-0389
Phone # 617-938-9100
Fax # 617-933-7812
Jay Kingsley

IN CANADA:

A. DIESELTECH

P.O. Box 1740
100 Otter Street
Winnipeg Manitoba
Canada - R3C 3A1
Phone # 204-452-4334 or 800-665-7665
Fax # 204-452-7984
Greg Eastwood
Keith Verhaeghe

B. C & R TRANSMISSION SERVICE L

16 Laidlaw Boulevard
Markham, Ontario Canada L3P 1W7
Phone # 905-294-5357
Fax # 905-294-5036
Art Nicholson

PRODUCT SERVICE

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Ken Keeler - Cust. Service Rep. - (Units)
Chuck McFate - Cust. Service Rep. - (Pump Drives)

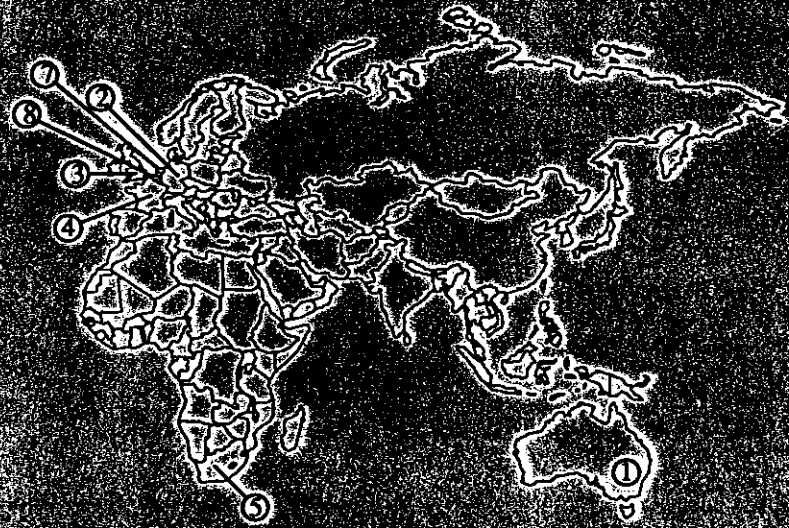
Funk Manufacturing Company, Coffeyville Kansas 1-800-844-1337
or 316-252-3539, Fax: 316-252-3256



FUNK POWER

INTERNATIONAL SERVICE CENTERS

International Service Centers 06/97



INTERNATIONAL SERVICE CENTERS

1. ASHLEY BENOIT & CO. PTY. LTD.

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P.O. Box 12
Castle Hill NSW 2154
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Fax # (61)-29899-2313

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Steve Robinson
Greg Jones
Dave Holloway

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Postfach 1741 - 53827 Troisdorf
Biberweg 10 - 53842 Troisdorf
Germany

Phone # 02241/4807-0
Fax # 02241-480710 und 403585

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Fax # (44)-1623-440988

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Phone # (27)-11-786-4247
Fax # (27)-11-440-1547

Charles Davidson

In South America:

6. TURBO SERVICES

Alfredo R. Bufano
2463 Capital Federal
Buenos Aires, 1416, Argentina

Phone # (011)-54-158-21326
Fax # (011)-54-158-37377

English:

Pascual Napolitano
Maximillion Rodriguez

Portuguese:

Jorge Rodriguez
Ruben Blanco

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ONDERNEMINGSWEG 19
2404 HM ALPHEN AAN DE RIJN
The Netherlands

Phone #172/43.64.54
Fax #172/43.54.71

Herbert Hoeneveld

8. ESCO TRANSMISSIONS SA

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1831 DEIGEM
Belgium

Phone # 02/720.48.80
Fax # 02/721.28.27

Edy De Backer

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Ken Keeler - Cust. Service Rep. - (Units)
Chuck McFate - Cust. Service Rep. - (Pump Drives)

INDUSTRIAL PARK, HWY 169 N., P.O. BOX 577, COFFEYVILLE, KANSAS 67337-0577

1-800-844-1337, FAX: (316) 252-3252 FOR PARTS/UNIT SALES FAX: (316) 252-3253 FOR SERVICE



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Fax # 972-224-8204

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Steve Simpson
Jesse Robinson
Ricky Robinson

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Fax # 303-297-0473

Tony Armendariz Ext. 280

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Jeff Gallagher

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Fax # 810-759-0879

Tim Enel
Julie Burkart

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Cincinnati, OH 45248
Phone # 513-874-4707
Fax # 513-874-4577

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Todd Lynch

6. GREAT LAKES POWER PRODUCTS

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Fax # 412-937-0081

Brian Frank
Diane Silberg

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Evansville, IN 47715
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Fax # 812-471-3809

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Ron Boorman

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31-40 Whitestone Expressway
Flushing N.Y. 11354
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Fax # 718-762-7876

Arnie Castka
Carl Orza

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1717 Kopper Road P.O. Box 965
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Phone # 404-366-0464 or 800-282-0996
Fax # 404-363-6205

Steve Campbell
David West
David Williams

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Montgomery, AL 36108
Phone # 800-346-2516 or 334-264-2573
Fax # 334-269-4994
Kenneth Jackson

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Morgan Hill CA 95037
Phone # 408-778-9677
Fax # 408-778-9646
Bill Leaman

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90805 Roberts Rd. P.O. Box 8009
Coburg OR 97408
Phone # 541-485-2203
Fax # 541-485-8452
Doug Hoff
Mark Mridal

13. MILL LOG MARINE, INC.

18547 E. Valley Hwy
Kent, WA 98032
Phone # 206-251-3434
Fax # 206-251-3430
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Larry Perdue

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Wade Lohay

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Steve Sorg

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Jim Neilson

17. PALMER JOHNSON DISTRIBUTORS, INC

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Todd Hopeman
Jeff Gotsch

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Fax # 608-846-9255
Don Hince
Tom Mahaffey

19. PALMER JOHNSON DISTRIBUTORS, INC

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Phone # 314-677-8100
Fax # 314-677-1003
Bill Hamelback
Rich Theiss
Eric Quinn

20. PALMER JOHNSON DISTRIBUTORS, INC

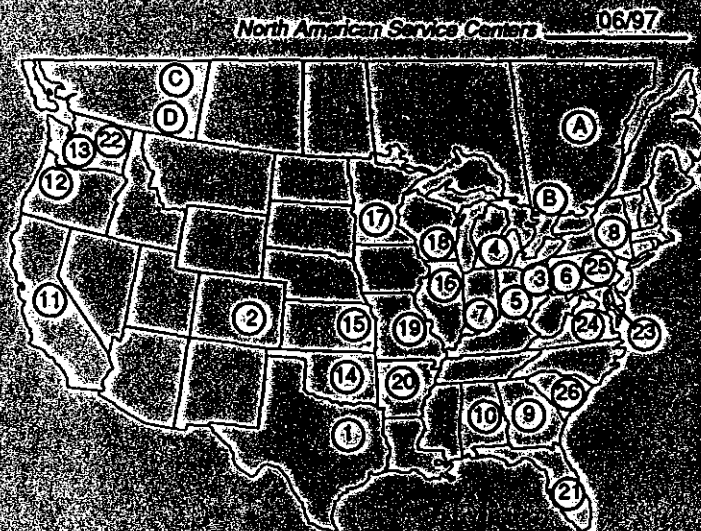
7623 Industry Drive
N. Little Rock AR 72117
Phone # 501-945-0242
Fax # 501-945-0366
Mike Michell
James Smith

21. PITTS ENGINE & TRANSMISSION, INC

7390 N.W. 43rd Street
Miami, FL 33166
Phone # 305-592-6540 or 800-541-2085
Fax # 305-477-6639
Cary Pitts
Steve Owensby

22. TORQUE-A-MATIC IND. ENG. & TRANS.

12822 E. Indiana P.O. Box 14106
Spokane, WA 99214
Phone # 509-928-0535
Fax # 509-928-0539
Vergil Earls



23. TRANSMISSION ENGINEERING CO.

7120 Golden Ring Rd. Bldg. 103
Baltimore, MD 21221
Phone # 410-682-4900 or 800-352-2323
Fax # 410-687-1536
Dennis Cline

24. TRANSMISSION ENGINEERING CO.

2801 E Trade Street
Chesapeake, VA 23323
Phone # 757-487-5462 or 800-257-4455
Fax # 757-485-4155
George Arthur
Dave Francemont

25. TRANSMISSION ENGINEERING CO.

1851 North Penn Road P. O. Box 580
Hatfield, PA 19440
Phone # 215-822-6737 or 800-521-3285
Fax # 215-822-5608
Mark McDonnell
Craig Thomas

26. TRANSMISSION ENGINEERING CO.

591 Bryant Blvd.
Rock Hill, South Carolina 29732
Phone # 803-366-2850 or 800-767-1801
Fax # 803-366-7128
Dale Drew
Allen Smith

IN CANADA:

A. ARBROEC PARTS CANADA LTD.

17755 La Pointe
Mirabel Quebec Canada J7J 1P3
Phone # 514-434-1992
Fax # 514-434-4968
Robert Samany

B. C & R TRANSMISSION SERVICE LTD.

16 Laidlaw Boulevard
Markham, Ontario Canada L3P 1 W7
Phone # 905-294-5357
Fax # 905-294-5036
An Nicholson

C. THE GEAR CENTRE

14811-116 Ave. (Also for BC Service)
Edmonton, Alberta Canada T5M 3E8
Phone # 403-452-6933 or 800-661-8825
Fax # 403-455-8612
Bill Moffat
Richard Enders

D. THE GEAR CENTRE

7170 Blackfoot Trail S.E.
Calgary, AB Canada T2H2T4
Phone # 403-252-3880 or 800-661-1378
Fax # 403-252-6308
Trevor Webb
Dave Leslie

IN MEXICO:

SISTEMAS MECANICOS E. HIDRAULICOS, S.A. DE C.V.

Lazaro Cardenas 580 - 202
03400 Mexico, D.F.
MEXICO
Phone # 525-696-4546 525-696-7096 525-696-5048
Fax # 525-579-4333
Attn: Mr. Tiburcio Bastida

ITEM NUMBER.: YZ16063
 DESCRIPTION.: DF3R2A

ENG. RELEASE NUMBER: B 970267
 ENG. RELEASE DATE.: 05/07/97

NARRATIVES: 12.75" AAA CONVERTOR, DFR SAE #3 HSG,
 6C YOKE ON OUTPUT, SAE "C" PAD ON CHARGE
 PUMP AND AUXILARY. COVER PLATE ON CHARGE
 PUMP SIDE. SPECIAL .947:1 RATIO, REF
 ADS #1540 SPECIAL FOR PETTIBONE
 #* STAMP ID TAG SPEC YZ16063A

REFERENCE NO.	COMPONENT ITEM	DESCRIPTION	QTY.	U/M	CHANGE NO.	CHANGE DATE	CH CD
*****	*****	*****	*****	*****	*****	*****	*****
	YZ16063	DF3R2A	1.000	B	970267		
0	YZ16063A	C/S DF3R2A	1.000	EA	C 970267	03/21/96	1
		12.75" AAA CONVERTOR, DFR SAE #3 HSG, 6C YOKE ON OUTPUT, SAE "C" PAD ON CHARGE PUMP AND AUXILARY. COVER ON CHARGE PUMP SIDE. ADS #1540 SPECIAL FOR PETTIBONE #* STAMP ID TAG SPEC YZ16063A					
0-1	YZ103682	ASM CONV 1275AAA	1.000	EA		03/21/96	1
		12.75-AAA, WITH FREE STATOR, FOR DF150,DF250, AND DFR #*ASM PER 4145015,					
0-1-0	4145015	DWG,CONV ASM 1275	1.000	EA	G	02/29/96	1
		#*DWG					
0-1-1	4012164A	IMP CONV 1275A	1.000	EA	X /F8	11/20/95	1
0-1-2	4000537	O RING	1.000	EA	B	11/20/95	1
0-1-3	YZ102046	HUB, IMPELLER 12.75	1.000	EA	G /F2	11/20/95	1
0-1-4	F37030236E	O RING	1.000	EA		11/20/95	1
0-1-5	F18002	WASHER	12.000	EA		11/20/95	1
0-1-6	F1002014	CAPSCREW	12.000	EA		11/20/95	1
0-1-7	4045901	WASHER THRUST	5.000	EA	E/F1	11/20/95	1
0-1-8	J09851	BEARING NEEDLE THRU	3.000	EA		11/20/95	1
		#*REPLACED F5513650					
0-1-9	4145012	STATOR CONV 1275A	1.000	EA	C F3	11/20/95	1
0-1-10	4003456	RETAINING RING	2.000	EA	A	11/20/95	1
0-1-11	4145011	RET CLU	2.000	EA	-/F3	11/20/95	1
0-1-12	4045723	RACE OUTER, CLU	1.000	EA	A/F9	11/20/95	1
0-1-13	4045081	ASM CLU SPRAG	1.000	EA	A	11/20/95	1
0-1-14	4045076	RACE INNER CLU	1.000	EA	P F2	11/20/95	1
0-1-15	4145013	ASM TURB 1275A	1.000	EA	A	11/20/95	1
0-1-16	4145120	COVER FRONT 12.75	1.000	EA	H	11/20/95	1
0-1-17	F4603012	BEARING	1.000	EA		11/20/95	1
0-1-18	F1002528HBNP	CAPSCREW	24.000	EA		11/20/95	1
0-1-19	F1300400U	HEX NUT	24.000	EA		11/20/95	1
0-1-20	YZ101507	RING, SEAL	1.000	EA	A	11/20/95	1
0-1-21	F2310044	PLUG, SHIPPING	1.000	EA		11/20/95	1
0-1-23	4003680	WASHER,FLAT	24.000	EA	A	11/20/95	1
0-2	YZ102212	GRP, OR PLATE	1.000	EA		03/21/96	1
		WELDED NUT DRIVEPLATE 14.8MM OFFSET, 360.68MM OD, WITH 8 HOLE PATTERN ON 342.9 BCD. USE ON CONVERTERS WITH INCH THREADS IN FRONT COVER. #* ASM PER YZ103025 DWG.					

REPORT: B496A
PRINTED: 06/27/97

MULTI- LEVEL REFERENCE BILL OF MATERIAL
EFFECTIVE AS OF 06/27/97

PAGE 2

ITEM NUMBER.: YZ16063
DESCRIPTION.: DF3R2A

ENG. RELEASE NUMBER: B 970267
ENG. RELEASE DATE.: 05/07/97

NARRATIVES: 12.75" AAA CONVERTOR, DFR SAE #3 HSG,
6C YOKE ON OUTPUT, SAE "C" PAD ON CHARGE
PUMP AND AUXILARY. COVER PLATE ON CHARGE
PUMP SIDE. SPECIAL .947:1 RATIO, REF
ADS #1540 SPECIAL FOR PETTIBONE
#* STAMP ID TAG SPEC YZ16063A

REFERENCE NO.	COMPONENT ITEM	DESCRIPTION	QTY.	U/M	CHANGE NO.	CHANGE DATE	CH CD
*****	*****	*****	*****	*****	*****	*****	*
0-2-0	YZ103025	DWG, DRIVE PLT GRP	1.000	EA		02/02/96	1
0-2-1	YZ102211	ASM DRV PLT	1.000	EA A		11/17/92	1
0-2-2	4046750	RING	1.000	EA B		11/17/92	1
0-2-3	F1003012	CAPSCREW	12.000	EA		11/17/92	1
0-3	YZ102149	SLEEVE, PILOT SHIPPED LOOSE	1.000	EA A /F1		03/21/96	1
		PILOT SLEEVE FOR 13.00 IN CONVERTER PILOT 51.95MM DIA, STD. CONVERTER DIA OF 39.97MM DIA WITH OVERALL LENGTH OF 36MM. (2.04)					
0-4	YZ104278	FRONT COVER GRP	1.000	EA		05/06/97	1
		SAE #3 FRT COVER USE W/11.75 OR 12.75 CONV. ON DF3RXA; USE WITH MAG PICKUP AND WITH OR WITHOUT CHARGE PUMP. SPECIAL .947 RATIO WITH REMOTE CONVERTOR HSG. #* ASM PER YZ103729 DWG					
0-4-0	YZ103729	DWG, FRT COVER GRP	1.000	EA A		05/06/97	1
0-4-1	YZ104029	FRT. COVER ASM	1.000	EA		05/06/97	1
		.95/1.00 PUMP AND AUX RATIO FRONT COVER ASSEMBLY FOR SAE #3 HOUSING. #* ASM PER YZ102330 DWG					
0-4-1-0	YZ102330	DWG, INPUT ASM	1.000	EA B		08/22/96	1
0-4-1-1	YZ103659	HSG, INP SAE #3	1.000	EA A		08/22/96	1
0-4-1-2	YZ101474	SHAFT, IDLER	2.000	EA A/F2		08/22/96	1
0-4-1-3	YZ101431	GEAR, DRIVEN 36T	2.000	EA B /F1		08/22/96	1
0-4-1-4	YZ101432	GEAR, IDLER 37T	2.000	EA A /F3		08/22/96	1
0-4-1-5	YZ101641	SEAL, OIL	1.000	EA		08/22/96	1
0-4-1-6	F41208R	BEARING	4.000	EA		08/22/96	1
0-4-1-7	F40115	BEARING BALL	1.000	EA		08/22/96	1
0-4-1-8	F40111	BEARING	3.000	EA		08/22/96	1
0-4-1-9	F40111R	BEARING	1.000	EA		08/22/96	1
0-4-1-10	N131806	SNAP RING	1.000	EA		08/22/96	1
		REPLACED F39000500					
0-4-1-11	YZ101435	SPACER, BEARING	1.000	EA A /F2		08/22/96	1
0-4-1-12	F37030219	O RING ARP219	2.000	EA		08/22/96	1
0-4-1-13	F37030226	O RING ARP226	2.000	EA		08/22/96	1
0-4-1-14	RE12182	SENSOR, MAGNETIC PI	1.000	EA		08/22/96	1
0-4-1-15	R37230	COVER, MAGNETIC PIC	1.000	EA		08/22/96	1
0-4-1-16	19M7077	SCREW, HEX CAP	2.000	EA		08/22/96	1
0-4-1-17	F37020114	O RING ARP114	1.000	EA		08/22/96	1
0-4-1-18	12H302	WASHER, LOCK	2.000	EA		08/22/96	1
0-4-1-19	24H1287	WASHER,	2.000	EA		08/22/96	1
0-4-1-20	F85112	PLUG HEX SOC	1.000	EA		08/22/96	1

REPORT: B696A
PRINTED: 06/27/97

MULTI- LEVEL REFERENCE BILL OF MATERIAL
EFFECTIVE AS OF 06/27/97

PAGE 3

ITEM NUMBER.: YZ16063
DESCRIPTION.: DF3R2A

ENG. RELEASE NUMBER: B 970267
ENG. RELEASE DATE.: 05/07/97

NARRATIVES: 12.75" AAA CONVERTOR, DFR SAE #3 HSG,
6C YOKE ON OUTPUT, SAE "C" PAD ON CHARGE
PUMP AND AUXILARY. COVER PLATE ON CHARGE
PUMP SIDE. SPECIAL .947:1 RATIO, REF
ADS #1540 SPECIAL FOR PETTIBONE
#* STAMP ID TAG SPEC YZ16063A

REFERENCE NO.	COMPONENT ITEM	DESCRIPTION	QTY.	U/M	CHANGE NO.	CHANGE DATE	CH CD
*****	*****	*****	*****	*****	*****	*****	*
0-4-2	YZ102203	TUBE, STATOR SUPPOR	1.000	EA	G	05/06/97	1
0-4-3	YZ103665	GEAR, 38T PULSE	1.000	EA		05/06/97	1
0-4-4	YZ102098	SHAFT, TURBINE	1.000	EA	C /F2	05/06/97	1
0-4-5	F2600916	PIN,COTTER	1.000	EA		05/06/97	1
0-4-6	T38147	THRUST RACE	1.000	EA		05/06/97	1
		#* REPLACED F5554860					
0-4-7	JD9887	BEARING NEEDLE THRU	1.000	EA		05/06/97	1
		#* REPLACED F5504860					
0-4-8	19M7289	CAPSCREW, 12X110MM	5.000	EA		05/06/97	1
0-4-9	YZ102373	DEFLECTOR	1.000	EA		05/06/97	1
0-4-10	F37030258	O RING ARP258	1.000	EA		05/06/97	1
		FOR USE WITH SAE 'D' PUMP MOUNTING					
0-4-11	19M8397	SCREW, HEX CAP 8X50	7.000	EA		05/06/97	1
0-4-12	YZ103625	HOUSING, CONV REMOT	1.000	EA	A	05/06/97	1
0-4-13	40B1113	SEAL RING	1.000	EA	B	05/06/97	1
0-4-14	F740009D	STEEL BALL 9/32	1.000	EA		05/06/97	1
0-4-15	F40210	BEARING	1.000	EA		05/06/97	1
0-4-16	F39000354	SNAP RING	1.000	EA		05/06/97	1
0-4-17	YZ102050	OIL SEAL	1.000	EA		05/06/97	1
0-4-18	19M8789	SCREW, SOC/HO 12X50	2.000	EA		05/06/97	1
0-4-19	F85120	PLUG,1 5/8 W/O-RING	2.000	EA		05/06/97	1
0-4-20	YZ101080	PLUG, HEX SOC 7/16-	1.000	EA	A	05/06/97	1
0-4-21	F37020113	O RING ARP113	2.000	EA		05/06/97	1
0-4-23	R66407	PLUG,SHIPPING	2.000	EA		05/06/97	1
0-4-24	R66408	PLUG,SHIPPING	2.000	EA		05/06/97	1
0-4-25	4A1050	PLATE, IDENT	1.000	EA	K	05/06/97	1
0-4-26	F310063	SCREW, DRIVE	2.000	EA		05/06/97	1
0-5	YZ102930	YOKE, GRP 6C OUTPUT	1.000	EA		03/21/96	1
		6C OUTPUT YOKE GRP FOR DFR UNITS					
		#*ASM PER 40A2421 N/A YZ102905 SEL					
0-5-1	YZ101651	YOKE, 6C	1.000	EA	/F1	03/18/94	1
0-5-2	F37040326	O RING ARP326	1.000	EA		03/18/94	1
0-5-3	4010464	WA, YOKE	1.000	EA	H	03/18/94	1
0-5-4	19M7283	CAPSCREW, 16X35MM	1.000	EA		03/18/94	1
0-6	YZ103690	GRP, CHARGE PUMP	1.000	EA		07/30/96	1
		CHARGE PUMP GRP WITH SAE "C" MOUNT ON					
		REAR, USED WHEN CUSTOMER REQUEST NO PUMP					
		REQUIREMENTS ON REAR OF CHARGE PUMP.					
		#* ASM PER YZ101950 DUG					
0-6-0	YZ101950	DUG, CHARGE PUMP GR	1.000	EA	C	02/14/96	1
0-6-1	YZ103141	PUMP, OIL	1.000	EA	A	11/22/95	1
		*+REPLACES YZ102566					
0-6-2	F37030250	O RING ARP250	1.000	EA		11/22/95	1

REPORT: B696A
PRINTED: 06/27/97

MULTI- LEVEL REFERENCE BILL OF MATERIAL
EFFECTIVE AS OF 06/27/97

PAGE 4

ITEM NUMBER.: YZ16063
DESCRIPTION.: DF3R2A

ENG. RELEASE NUMBER: B 970267
ENG. RELEASE DATE.: 05/07/97

NARRATIVES: 12.75" AAA CONVERTOR, DFR SAE #3 HSG,
6C YOKE ON OUTPUT, SAE "C" PAD ON CHARGE
PUMP AND AUXILARY. COVER PLATE ON CHARGE
PUMP SIDE. SPECIAL .947:1 RATIO, REF
ADS #1540 SPECIAL FOR PETTIBONE
** STAMP ID TAG SPEC YZ16063A

REFERENCE NO.	COMPONENT ITEM	DESCRIPTION	QTY.	U/M	CHANGE NO.	CHANGE DATE	CH CD
*****	*****	*****	*****	*****	*****	*****	*****
0-6-4	F300848V	SCREW,SET	1.000	EA		11/22/95	1
0-6-5	F21018SC	CUP PLUG	1.000	EA		11/22/95	1
0-6-6	R66408	PLUG,SHIPPING	1.000	EA		11/22/95	1
0-6-7	19M7344	CAPSCREW 16 X 65MM	3.000	EA		11/22/95	1
0-12	YZ103189	GRP, SAE C COVER	1.000	EA		07/30/96	1
		SAE C (5.00") COVER WITH 4 BOLT MOUNT USED TO COVER SAE "C" PAD WHEN CUSTOMER REQUEST NO OPTIONS ON REAR OF CHARGE PUMP OR AUXILARY SIDE.					
0-12-1	4102254	PLT, CVR "C"	1.000	EA	NO	01/28/95	1
0-12-2	F37030250	O RING ARP250	1.000	EA		01/28/95	1
0-12-3	19M7386	SCREW, HEX CAP 12X2	4.000	EA		01/28/95	1
0-109	YZ102915	GRP, HDW "C" COVER	1.000	EA		07/30/96	1
		SHIPPING COVER & O'RING FOR SAE "C" PAD N/A YZ102912 SEL					
0-109-1	F37030250	O RING ARP250 SHIPPED LOOSE	1.000	EA		03/16/94	1
0-109-2	F23048	PLUG,SHIPPING SAE 'C', 5" DIA PLASTIC COVER	1.000	EA		03/16/94	1

REPORT: B696A
PRINTED: 06/27/97

MULTI- LEVEL REFERENCE BILL OF MATERIAL
EFFECTIVE AS OF 06/27/97

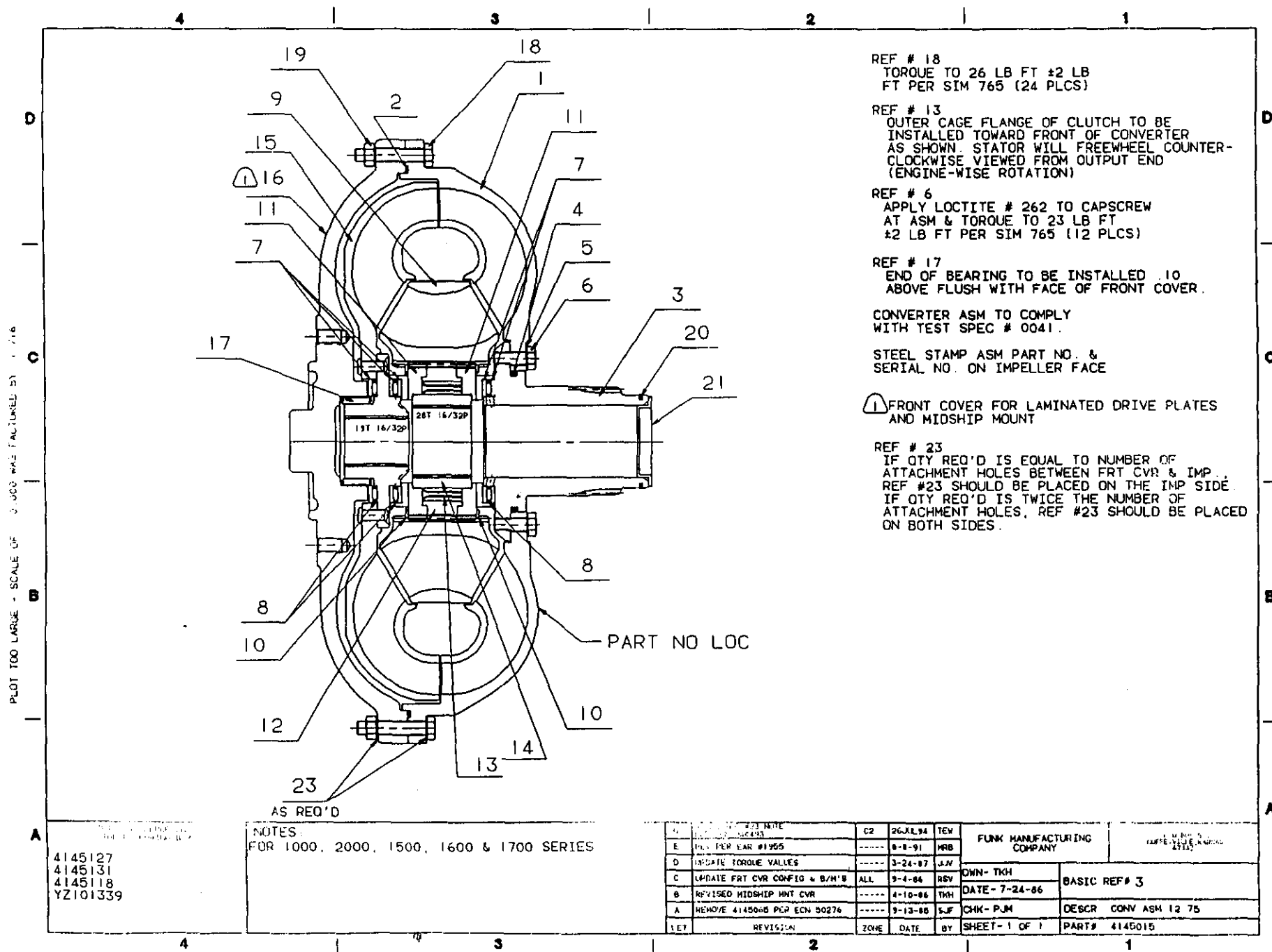
PAGE 5

I T E M S L I S T E D B E L O W S H I P L O O S E

PARTS	DESCRIPTION	TOTAL QTY.
*****	*****	*****
F37030250	O RING ARP250	1.000
YZ102149	SLEEVE, PILOT	1.000

***** END OF REPORT *****

4145015



REF # 18
TORQUE TO 26 LB FT $\pm$ 2 LB
FT PER SIM 765 (24 PLCS)

REF # 13
OUTER CAGE FLANGE OF CLUTCH TO BE
INSTALLED TOWARD FRONT OF CONVERTER
AS SHOWN. STATOR WILL FREEWHEEL COUNTER-
CLOCKWISE VIEWED FROM OUTPUT END
(ENGINE-WISE ROTATION)

REF # 6
APPLY LOCTITE # 262 TO CAPSCREW
AT ASM & TORQUE TO 23 LB FT
 $\pm$ 2 LB FT PER SIM 765 (12 PLCS)

REF # 17
END OF BEARING TO BE INSTALLED .10
ABOVE FLUSH WITH FACE OF FRONT COVER.

CONVERTER ASM TO COMPLY
WITH TEST SPEC # 0041.

STEEL STAMP ASM PART NO. &
SERIAL NO. ON IMPELLER FACE

① FRONT COVER FOR LAMINATED DRIVE PLATES
AND MIDSHIP MOUNT

REF # 23
IF QTY REQ'D IS EQUAL TO NUMBER OF
ATTACHMENT HOLES BETWEEN FRT CVR & IMP.
REF #23 SHOULD BE PLACED ON THE IMP SIDE.
IF QTY REQ'D IS TWICE THE NUMBER OF
ATTACHMENT HOLES, REF #23 SHOULD BE PLACED
ON BOTH SIDES.

AS REQ'D

PART NO LOC

NOTES:
FOR 1000, 2000, 1500, 1600 & 1700 SERIES

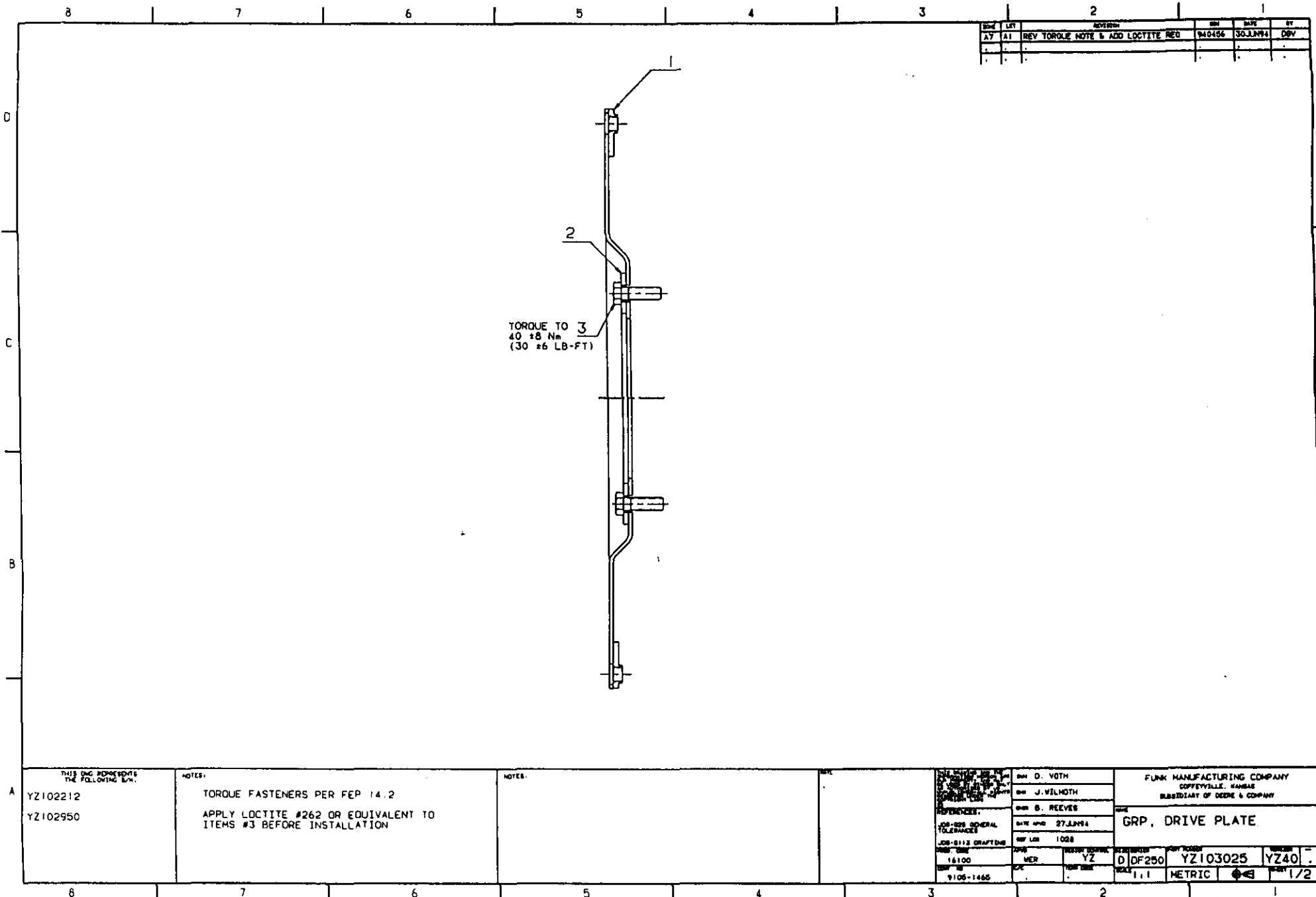
4145127
4145131
4145118
YZ101339

REV	DESCRIPTION	DATE	BY	ZONE	DATE	BY	SHEET	1 OF 1	PART#	4145015
1	REVISED	26 JUL 94	TEV							
2	REVISED	8-8-91	HRB							
3	REVISED	3-24-87	JAN							
4	REVISED	9-4-84	RSV							
5	REVISED	4-10-86	TKH							
6	REVISED	9-13-88	SJF							
7	REVISED									
8	REVISED									
9	REVISED									
10	REVISED									
11	REVISED									
12	REVISED									
13	REVISED									
14	REVISED									
15	REVISED									
16	REVISED									
17	REVISED									
18	REVISED									
19	REVISED									
20	REVISED									
21	REVISED									
22	REVISED									
23	REVISED									

FUNK MANUFACTURING
COMPANY

OWN- TKH
DATE- 7-24-86
CHK- PJM
DESCR CONV ASM 12 75
PART# 4145015

YZ103025 10/2



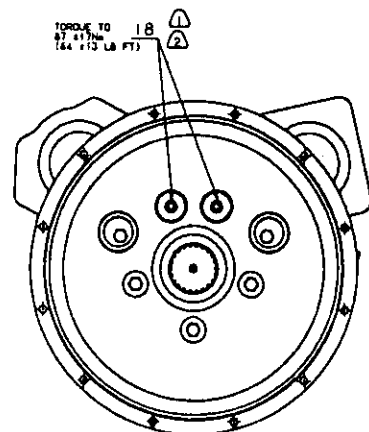
REV	BY	DATE	DESCRIPTION	REV	BY	DATE	DESCRIPTION
A7	AT		REV TORQUE NOTE & ADD LOCTITE REQ				

A	THIS DWG REPRESENTS THE FOLLOWING I/M:	NOTES:	NOTES:	DATE	FUNK MANUFACTURING COMPANY COFFEYVILLE, KANSAS SUBSIDIARY OF DEERE & COMPANY			
	YZ102212	TORQUE FASTENERS PER FEP 14.2			DESIGNED BY: D. VOTH			
	YZ102950	APPLY LOCTITE #262 OR EQUIVALENT TO ITEMS #3 BEFORE INSTALLATION			CHECKED BY: J. VELMOTH			
					DATE: 27.JAN.94			
				REV: 1028				

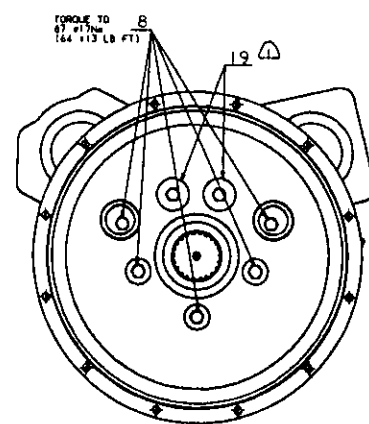
2082

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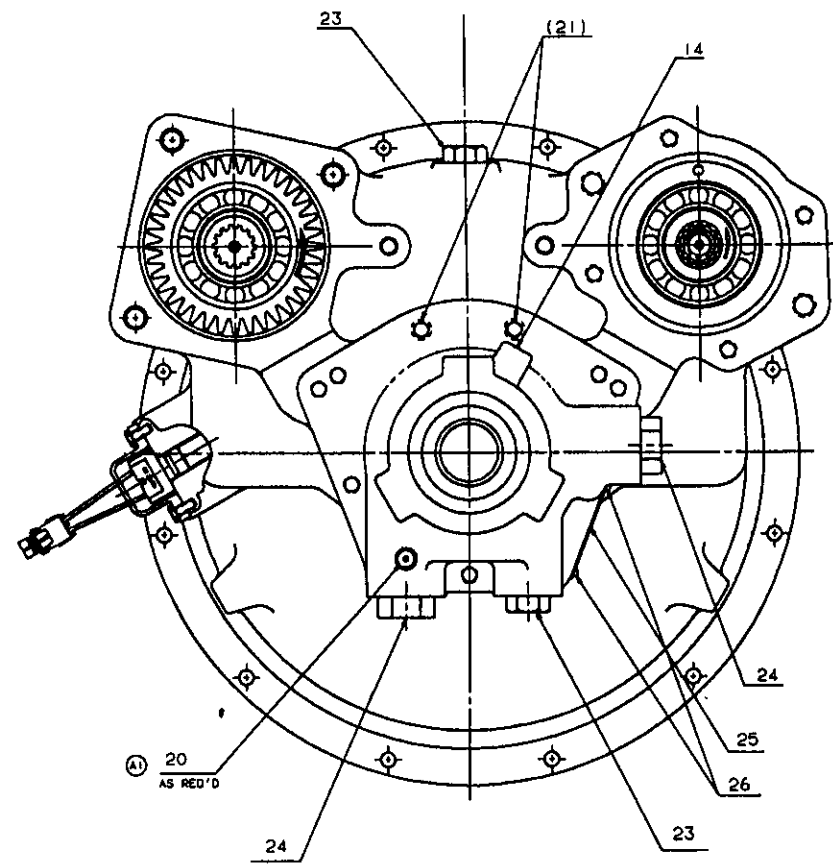
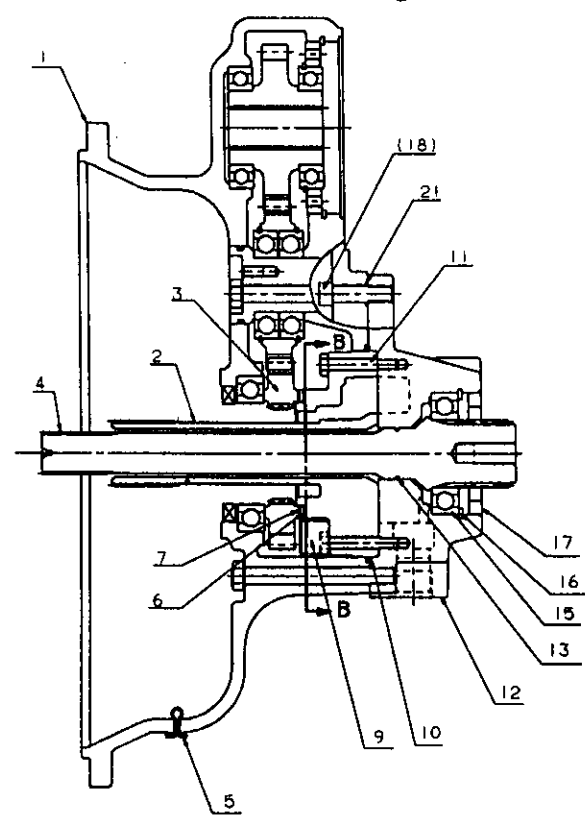
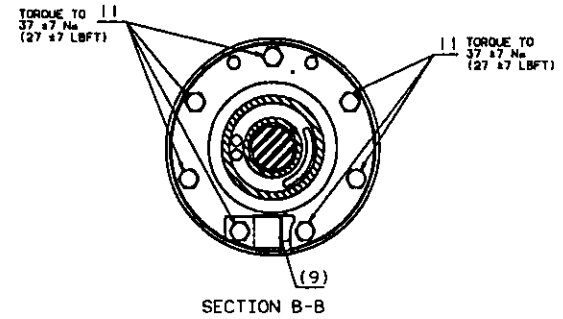
YZ103729



SCALE 3/8



SCALE 3/8



THIS DWG REPRESENTS THE FOLLOWING S/N:
YZ103727

NOTES:
METRIC FASTENERS TORQUE PER FEP 14.1
APPLY LOCTITE #262 TO THREADS OF
ITEM #18 BEFORE INSTALLATION

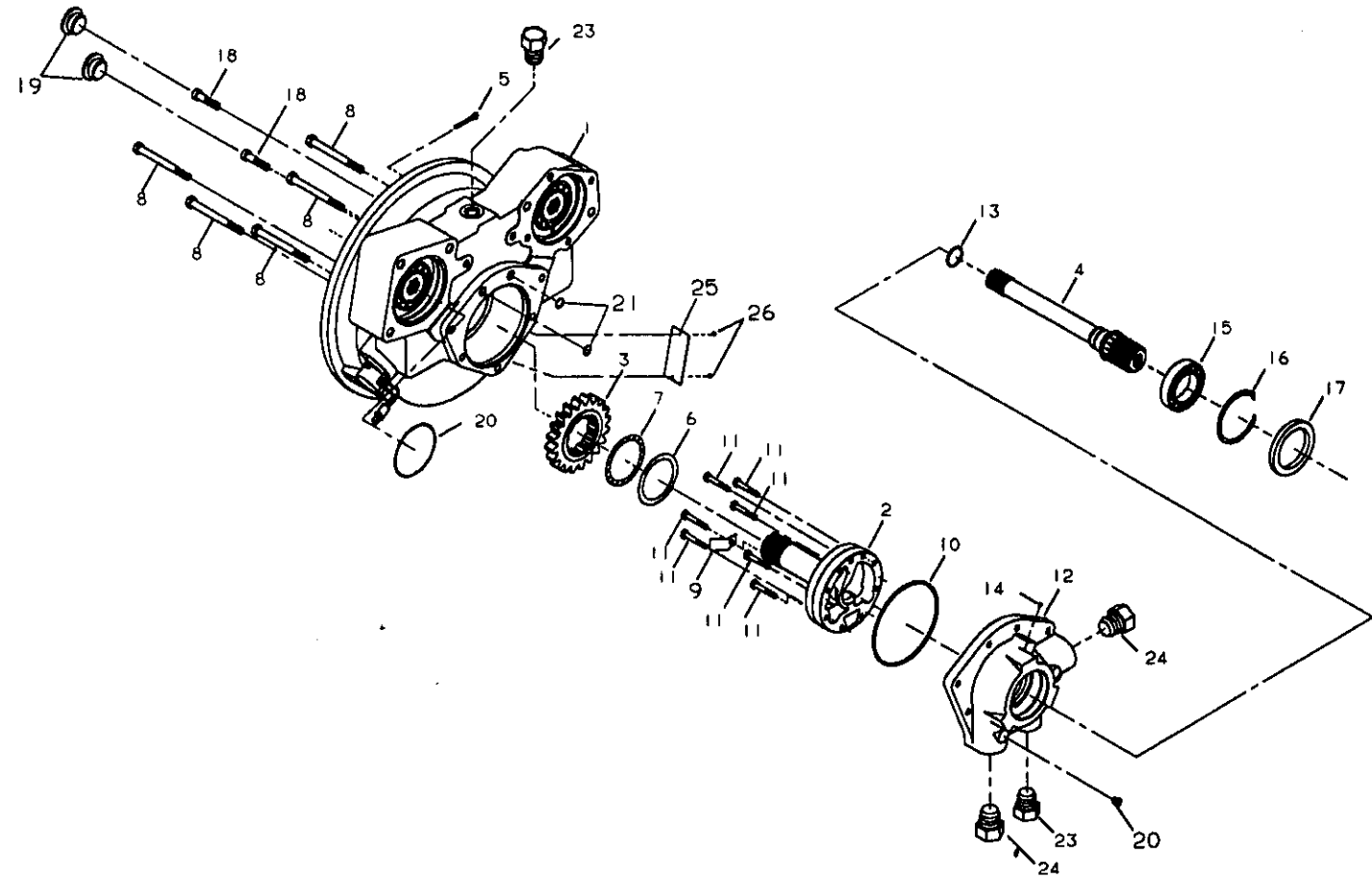
NOTES:
ITEM #18 MUST BE INSTALLED & TORQUED
BEFORE ITEM #19 CAN BE INSTALLED

DESIGNED BY: D. WITH CHECKED BY: J. VELMOTH DATE: 10/22/90 DWG NO: 1002230 REV: 1001		MANUFACTURING COMPANY HUNTSVILLE, ALABAMA SUBSIDIARY OF HUNTSVILLE	
GROUP: 1001 PART: 1001 QTY: 1001		GRP. FRONT COVER YZ103729 YZ40A 1.1 METRIC 1/2	

YZ103729

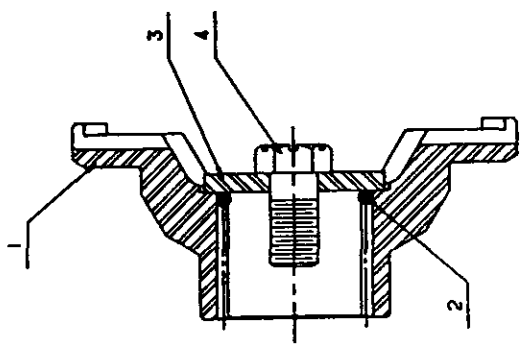
2/2

REV	LET	REVISION	DATE	BY
1	A1	REV SHEET 1		



A	THIS DWG REPRESENTS THE FOLLOWING S/W:	NOTES:	NOTES:	<table border="1"> <tr> <td>DESIGNED BY</td> <td>D. VOTH</td> </tr> <tr> <td>CHECKED BY</td> <td>J. WILMOTH</td> </tr> <tr> <td>ENGINEERED BY</td> <td>S. REEVES</td> </tr> <tr> <td>DATE</td> <td>18DEC95</td> </tr> <tr> <td>REV</td> <td>1024</td> </tr> <tr> <td colspan="2"> REFERENCES: GR-625 GENERAL TOLERANCES JOB-8113 DRAFTING </td> <td colspan="2"> FUNK MANUFACTURING COMPANY COPPEYVILLE, KANSAS SUBSIDIARY OF DEERE & COMPANY </td> </tr> <tr> <td>SEE SHEET 1</td> <td>SEE SHEET 1</td> <td></td> <td></td> <td colspan="2"> NAME GRP, FRONT COVER </td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td> PART NUMBER YZ103729 </td> <td> QUANTITY 1 </td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td> SCALE NONE </td> <td> METRIC YES </td> </tr> </table>	DESIGNED BY	D. VOTH	CHECKED BY	J. WILMOTH	ENGINEERED BY	S. REEVES	DATE	18DEC95	REV	1024	REFERENCES: GR-625 GENERAL TOLERANCES JOB-8113 DRAFTING		FUNK MANUFACTURING COMPANY COPPEYVILLE, KANSAS SUBSIDIARY OF DEERE & COMPANY		SEE SHEET 1	SEE SHEET 1			NAME GRP, FRONT COVER						PART NUMBER YZ103729	QUANTITY 1					SCALE NONE	METRIC YES
	DESIGNED BY	D. VOTH																																		
	CHECKED BY	J. WILMOTH																																		
	ENGINEERED BY	S. REEVES																																		
DATE	18DEC95																																			
REV	1024																																			
REFERENCES: GR-625 GENERAL TOLERANCES JOB-8113 DRAFTING		FUNK MANUFACTURING COMPANY COPPEYVILLE, KANSAS SUBSIDIARY OF DEERE & COMPANY																																		
SEE SHEET 1	SEE SHEET 1			NAME GRP, FRONT COVER																																
				PART NUMBER YZ103729	QUANTITY 1																															
				SCALE NONE	METRIC YES																															

40A2421



NOTES:
REF 44
LOCTITE 242

THIS DRAWING SHOWS
THE FOLLOWING DIMS:
4005002
4010456
4102438

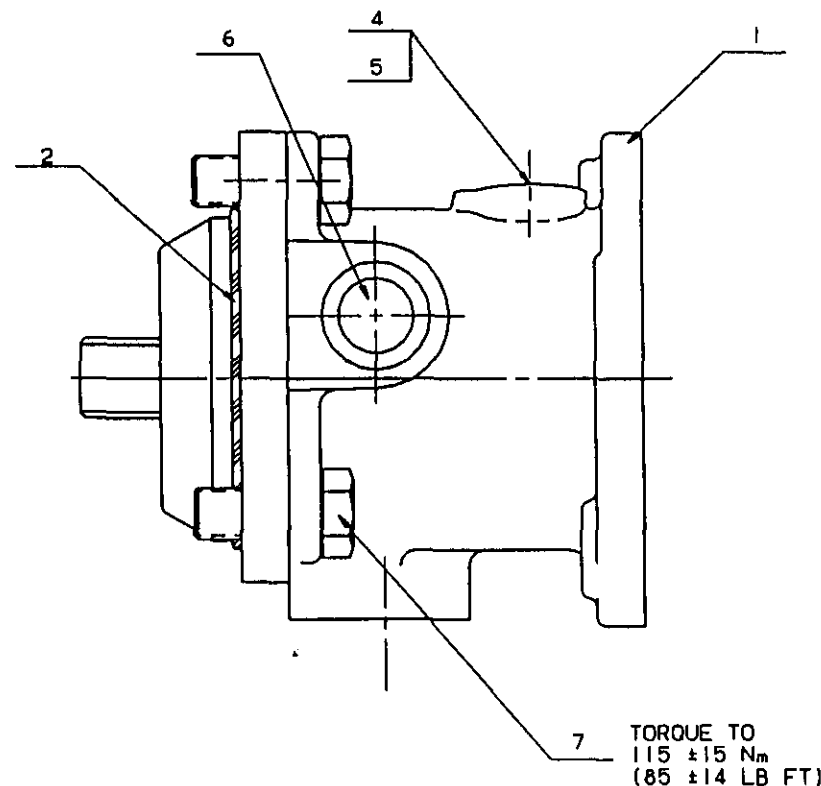
FUNK MANUFACTURING COMPANY		P.O. BOX 277 CORPUS CHRISTI, TEXAS	
QUN-SJF	BASIC REF# 10		
DATE- 7-6-83			
CHK-JJV	DESCR GRP YDKE FTG		
SHEET- 1 OF 1	PART# 40A2421		

REV	DATE	BY	REVISION
B	4-18-89	SLP	FOR DCR #2328 ECH 890841
C	3-11-88	JOB	REVISE REF 44 PER ECH 81996
B	3-17-88	JOB	REVISE FORM#1
A	4-23-84	JJV	ADD DIM 4005002
LET			

1 2 3 4

YZ101950 1/2

ZONE	LET	REVISION	ECN	DATE	BY
SH2	A	DELETE ITEM #2	940342	13MAY94	DGV
	B1	REV TORQUE NOTE	940382	3JUN94	DGV
	C	REMOVED SHIPPING PLUG	-----	14JAN97	JRW



PLOT TOO LARGE - SCALE OF 0.000 WAS FACTORED BY 1.618

THIS DWG REPRESENTS
THE FOLLOWING B/M:

YZ101863

NOTES:

APPLY LOCTITE #262 TO THREADS OF
ITEM #4 & ONTO O.D. OF ITEM #5
BEFORE INSTALLATION.

DATE

THIS DRAWING AND THE
INFORMATION HEREON ARE
THE PROPERTY OF FUNK
MANUFACTURING COMPANY
AND ARE NOT TO BE
REPRODUCED OR
TRANSMITTED IN ANY
MANNER WITHOUT THE
WRITTEN CONSENT OF
FUNK MANUFACTURING COMPANY

REFERENCES:

JDS-G25 GENERAL
TOLERANCES

JDS-G113 DRAFTING

PROD. CODE

16100

CONF. NO.

OWN J. WILMOTH

OWN J. WILMOTH

ENGR J. THOMAS

DATE APVD 10APR92

REF LCB

APVD

JCT

C/E

DESIGN CONTROL

YZ

TERR CODE

FUNK MANUFACTURING COMPANY
COFFEYVILLE, KANSAS
SUBSIDIARY OF DEERE & COMPANY

GRP. CHARGE PUMP

WIRE SERIES

C/DF250

SCALE 1:1

PART NUMBER

YZ101950

METRIC

VERSION

YZ40 C

SHEET 1/2

DATE= 1/14/97 TIME=12.59 ACCESS=NONE
LOGON ID=YZ02087
PLOT=

DATE= 1/14/97 TIME=12 59 ACCESS=NONE
LOGON ID=Y202087
XLOI= 2

PLOT TOO LARGE - SCALE OF 0 000 WAS FACTORED BY 1 618

