

TRICOMPONENT

PRODUCTS CORPORATION



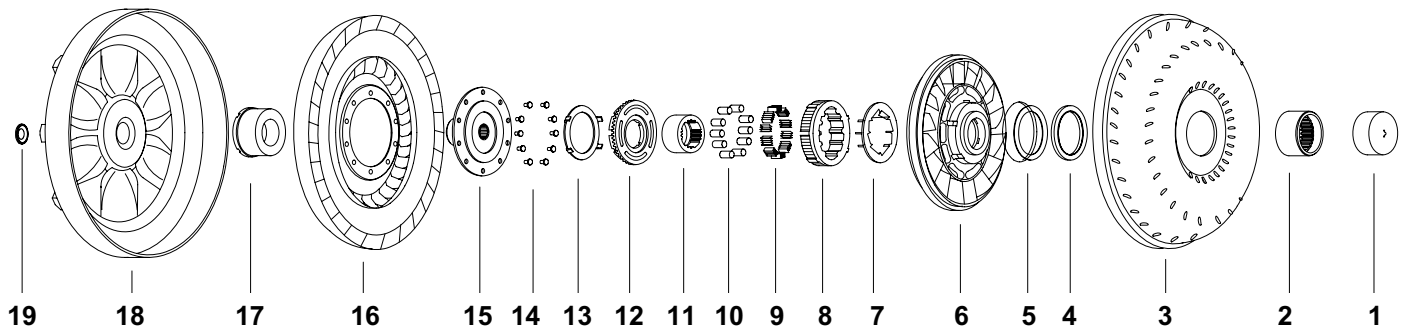
INDUSTRIAL PARTS

2026

973 Brook Avenue
Bronx, New York 10451-4209
www.tricomponent.com
1(800)FONE-TRI
Fax(718)402-2345

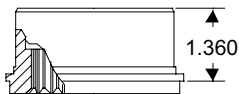
BORG WARNER INDUSTRIAL 310mm

Lockup & Non-Lockup



ILL. #2 IMPELLER HUB, 2.500" DIA.

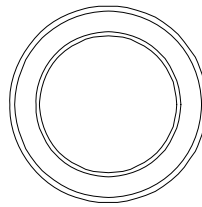
25 Internal Spline



WH-1-22G

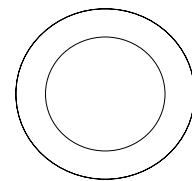
Suffix Code: No Suffix-Unfinished, "G"-
Finish Ground, "RC"- Hardness Rc 32-36

ILL. #4 BEARING



SW-2-12

ILL. #5 SHIM

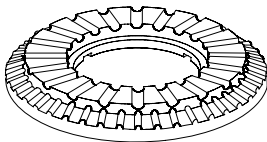


SW-2-210, .010 Thick
SW-2-220, .020 Thick

ILL #12

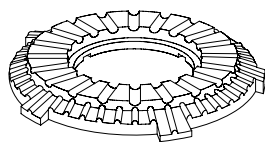
STATOR CAPS AND BEARING ADAPTER

O.D. 3.74"
I.D. 1.71"
Thick. .49"



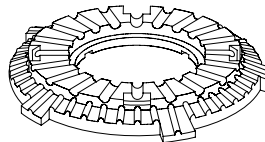
SW-4-19
OE Design

O.D. 3.74"
I.D. 1.71"
Thick. .49"



SW-4-19A
5 Lug Design

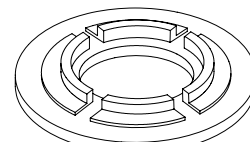
O.D. 3.74"
I.D. 1.71"
Thick. .43"



SW-4-19B
Use w/ **TW-3-3** Washer

Alternate

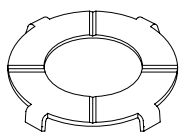
O.D. 3.75"
I.D. 1.70"
Thick .47"



WW-4-8
Use w/ **SW-2-12** Bearing

ILL.# 13 BRONZE WASHER

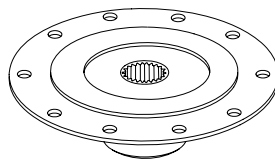
O.D. 2.94"
I.D. 1.96"
Thick. .06"
.26 Wide Lugs



TW-3-3

ILL. # 15 TURBINE HUB

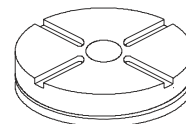
O.D. 5.15"
Height 1.28"
29 Spline



WX-13-33HT

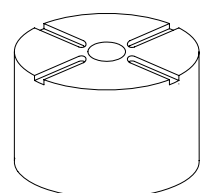
ILL. # 17 WASHERS, TURBINE

O.D. 2.23"
I.D. .75"
Thick. .55"



WW-9-9

O.D. 2.50"
I.D. .75"
Thick. 1.46"



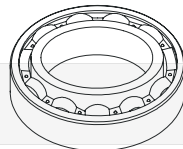
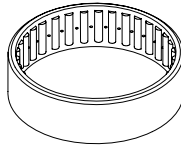
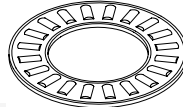
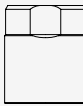
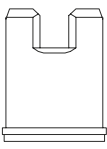
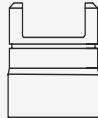
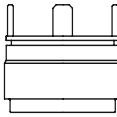
WW-9-10

BORG WARNER INDUSTRIAL 310mm

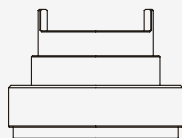
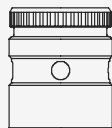
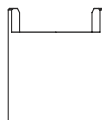
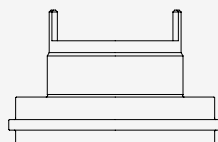
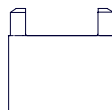
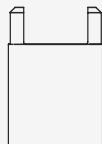
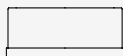
Lockup & Non-Lockup

ILL.#	DESCRIPTION		QTY.	PART #
1	Hubcap®			
2	Hub, Impeller	2.50" Dia., 25 Internal Spline		WH-1-22G
3	Impeller			
4	Bearing	Enclosed		SW-2-12
5	Shim	Use Under SW-2-12, .010" Thick.		SW-2-210
		.020" Thick.		SW-2-220
		.030" Thick.		SW-2-230
6	Stator			
7	Retainer, Spring	3.12 x 3.12, .49 High		SX-15B
8	Cam	Stator		SX-15A
9	Spring, Accordion	.560" Wide, .22" High	10	SS-6
10	Roller	.312" Dia. Roller, .57" Long	10	SR-7
11	Race, Inner	29 Spline, 10 Removed, 2.156" O.D., 1.03" High		WX-14-1
		22 Spline, 2.156" O.D., 1.03" High For Caterpillars		WX-14-8
		Contact Your Tri Pro for Any Inner Races Required		
12	Cap, Stator	Plastic, 252-10174, OE Design		SW-4-19
		Plastic, 5 Lug Design		SW-4-19A
		Plastic, 5 Lug Design, 252-10097, Use w/ TW-3-3 Washer		SW-4-19B
	Bearing Adapter	Alternate, Aluminum, Use With Bearing SW-2-12		WW-4-8
13	Washer, Bronze	With 4 Lugs		TW-3-3
14	Rivet	.214" Shank Dia., .31" Long	10	FX-12
		.214" Shank Dia., .38" Long	10	FX-12L
15	Turbine Hub	29 Spline, 5.15" O.D., 1.28" High		WX-13-33HT
16	Turbine			
17	Washer, Bullet Proof™	2.50" O.D., .75" I.D., 1.46" Thick, Improved, Heavy Duty		WW-9-10
		2.23" O.D., .75" I.D., .55" Thick, With O-Ring Groove		WW-9-9
18	Cover, Front			
19	Button, Pilot	Unfinished, OE Style		SX-23
		As Above But O.D. To Finish Size, OE Style		SX-23F
		Alternate, "Add-On" Button		SX-23B
		Self Centering		SX-23C
		See Page # 1-38 for Pilot Description		

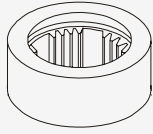
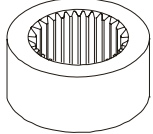
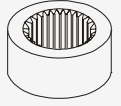
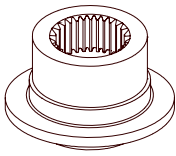
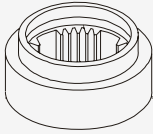
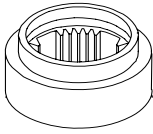
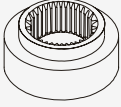
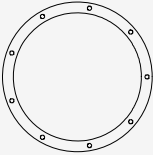
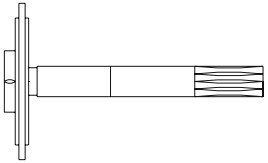
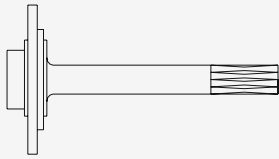
INDUSTRIAL, Not Cataloged Elsewhere

	APPLICATION	DESCRIPTION	DIMENSIONS	ILLUSTR.	PART #
BEARINGS					
Ball Bearing	Japanese Industrial	7 Balls	52mm O.D., 20mm I.D., 15mm High		MB-6304
Ball Bearing	Komatsu	9 Balls	85mm O.D., 45mm I.D., 19mm High		MB-6209
Ball Bearing	Japanese Industrial	10 Balls	90mm O.D., 50mm I.D., 20mm High		MB-6210
Ball Bearing	Komatsu	14 Balls	95mm O.D., 60mm I.D., 18mm High		MB-6012
Caged Needle Bearing	Japanese Industrial		58mm O.D., 50mm I.D., 20mm High		HK-5020
Needle Thrust Bearing	Japanese Industrial		70mm O.D., 50mm I.D., 3mm Thick		AXK-5070
Needle Thrust Bearing	Japanese Industrial		78mm O.D., 55mm I.D., 3mm Thick		FNT-5578
Needle Thrust Bearing	Japanese Industrial		100mm O.D., 75mm I.D., 4mm Thick		FNT-75100
HUBS*					
Hub, Impeller	Nissan/Komatsu	2 Flats	1.651" O.D., 1.985" High		JH-1-33G
Hub, Impeller		2 Slots	1.937" O.D., 2.160" High		MH-1-2G
Hub, Impeller	Nissan Industrial	2 Lugs, With Seal Groove	2.046" O.D., 1.95" High Lugs: .47" Wide .60" High		MH-1-3G
Hub, Impeller	Toyota Industrial	4 Lugs, with Seal Groove	2.281" O.D., 1.84" High Lugs: .39" Wide, .54" High		MH-1-4G

INDUSTRIAL, Not Cataloged Elsewhere

APPLICATION		DIMENSIONS		ILLUSTR.	PART #
HUBS*, CONTINUED					
Hub, Impeller	Komatsu	2 Lugs	4.000" O.D., 2.91" High Lugs: .79" Wide & .59" High		MH-1-7GRC
Hub, Impeller	11" Borg Warner	41 Spline on O.D.	2.125" O.D., 2.50" High		MH-1-8G
Hub, Impeller	11" Borg Warner	2 Lugs	2.250" O.D., 2.15" High Lugs: .68" Wide & .45" High		MH-1-9G
Hub, Impeller	Komatsu	2 Lugs	4.629" Flange O.D. 2.951" O.D., 2.915" High Lugs: .78" Wide & .67" High		MH-1-10GRC
Hub, Impeller	TCM Industrial	2 Lugs	1.968" O.D., 2.45" High Lugs: .39" Wide & .63" High		MH-1-TCMG
Hub, Impeller	TCM Industrial	2 Lugs	1.968" O.D., 2.75" High Lugs: .39" Wide & .63" High		MH-1-TCMLG
Hub, Impeller	Chrysler Industrial		1.875" O.D., 1.62" I.D., 1.50" High		TH-1-10G
Hub, Impeller	Chrysler Industrial		2.124" O.D., 1.874" I.D., .94" High		TH-1-7G
Hub, Impeller	Borg Warner 9-1/2" Industrial	2 Lugs	1.685" O.D., 2.00" High Lugs: .58" Wide .56" High		WH-1TBG

INDUSTRIAL, Not Cataloged Elsewhere

APPLICATION	DESCRIPTION	DIMENSIONS	ILLUSTR.	PART #
INNER RACES				
Inner Race		29 Spline (10 Removed)	2.15" O.D., 1.42" I.D., 1.24" High	 MX-14
Inner Race	Forklift	32 Spline	2.15" O.D., 1.55" I.D., 1.24" High	 MX-14-1
Inner Race		27 Spline	1.957" O.D., 1.31" I.D., .99" High	 MX-14-2
Inner Race	Komatsu	18 Spline	3.06" Flange O.D. 2.15" O.D., 1.49" I.D., 1.74" High	 MX-14-3
Inner Race	Fichtel & Sachs	29 Spline (10 Removed)	2.16" O.D., 1.42" I.D., 1.25" High	 PX-14-5
Inner Race		31 Spline, 10 Removed	2.16" O.D., 1.65" High	 PX-14-6
Inner Race	Nissan	30 Spline	1.956" O.D., 1.19" I.D., 1.14" High	 JX-14-8
LOCKUP CLUTCH LINING				
Lockup Clutch Lining	Allison 3060 World Transmission Heavy Duty	Kevlar® Use 2	11-11/16" O.D., 10" I.D., .040" Thick	 MX-23-1
SHAFTS				
Shaft	Yale, Industrial	20/15 Spline	215mm Long	 MX-SH-1
Shaft	Mazda, Industrial	18 Spline	102mm Long	 MX-SH-2
Shaft	Mazda, Industrial	20 Spline	109mm Long	 MX-SH-3

INDUSTRIAL, Not Cataloged Elsewhere

Sprags

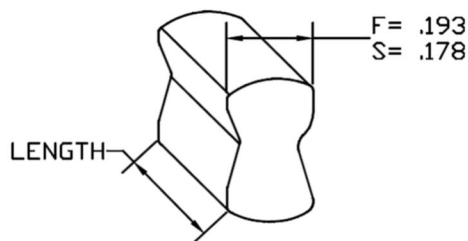
TRI PART #	REF. PART #	DESCRIPTION	OUTER RACE I.D. (in)	INNER RACE O.D. (in)	Width (in)	OUTER RACE I.D. (mm)	INNER RACE O.D. (mm)	Width (mm)	ILLUSTRATION
BC-6	N/A	14 Cams # F-315 2 Inside Strips	2.281	1.625	0.530	57.9	41.3	13.5	
FC-6-1	N/A	20 Cams # F-407 2 Inside Strips Replaced By FC-6-10	2.812	2.156	0.625	71.4	54.8	15.9	N/A
FC-6-3	N/A	20 Cams # F-395 5 Outside Clips, 3 Inside Strips Replaced By FC-6-10	2.812	2.156	0.625	71.4	54.8	15.9	
FC-6-4	BW-SP-1	20 Cams # F-407 10 Outside Clips, 3 Inside Strips Replaced By FC-6-10	2.812	2.156	0.625	71.4	54.8	15.9	
FC-6-9	N/A	22/24 Cams # F-407 10 Outside Clips, 2/3 Inside Strips Replaced By FC-6-10	2.812	2.156	0.625	71.4	54.8	15.9	N/A
FC-6-10	DC5476A	24 Cams # F-395 12 Outside Clips, 3 Inside Strips	2.812	2.156	0.625	71.4	54.8	15.9	
JC-6-2	N/A	26 Cams # F-240 / S-240	2.820	2.410	0.450	71.6	61.2	11.4	
MC-1	MI-SP-1	24 Cams # S-532 12 Outside Clips 3 Inside Strips	2.804	2.148	0.810	71.2	54.6	20.6	
MC-2	MI-SP-3	30 Cams # F-585 15 Outside Clips 3 Inside Strips	3.499	2.843	0.825	88.9	72.2	21.0	
MC-3	N/A	26 Cams # F-760 13 Outside Clips	3.000	2.344	1.000	76.2	59.5	25.4	

INDUSTRIAL, Not Cataloged Elsewhere

Sprags, continued

TRI PART #	REF. PART #	DESCRIPTION	OUTER RACE I.D. (in)	INNER RACE O.D. (in)	Width (in)	OUTER RACE I.D. (mm)	INNER RACE O.D. (mm)	Width (mm)	ILLUSTRATION
MC-4	MI-SP-4	22 Cams # S-532 11 Outside Clips 3 Inside Strips	2.614	1.958	0.750	66.4	49.7	19.1	
MC-5	N/A	22 Cams # S-532	2.540	1.870"	0.730	64.5	25.4	18.5	N/A
MC-6	MI-SP-5	Garter Spring Type, Replaced by Tri Component Upgrade MC-6 w/26 Cams # F-395 , 13 Outside Clips, Double Cage, Reuse End Washers	2.930	2.274	0.635	74.4	57.8	16.1	
VC-6-1	N/A	22 Cams # F-295, 4 Outside Clips 4 Outside Clips	2.613	1.957	0.530	66.4	49.7	13.5	
YC-6	N/A	22 Cams # S-315	2.450	1.870	0.510	62.2	47.5	13.0	

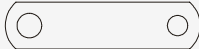
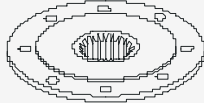
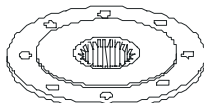
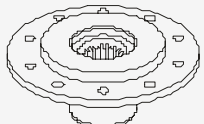
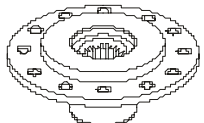
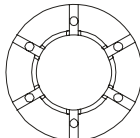
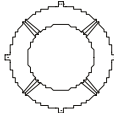
Sprags Are Economically Rebuildable By Tri Component. All Cores Should Be Saved For Rebuild Or Purchase By Tri Component. Call your Tri Pro For Other Sprag Components.



How to Specify Cams

Cam part number consists of a letter (F or S) and 3 digits. Letter F or S describes cam's width and 3 digits after dash - cam's length. For example: F-395 is a cam with dimensions: .193 wide and .395 long

INDUSTRIAL, Parts Not Cataloged Elsewhere

APPLICATION		DESCRIPTION	DIMENSIONS	ILLUSTR.	PART #
STRAP					
Strap		“Velvet Drive”			FX-10-8
TURBINE HUBS					
Turbine Hub	Borg Warner 9-1/2" Industrial	21 Spline	3.60" O. D., .72" High		BX-13-1
Turbine Hub	Borg Warner 9-1/2" Industrial	24 Spline	3.60" O. D., .72" High		BX-13-3
Turbine Hub	Chrysler Industrial TF-8	19 Spline	3.96" O. D., 1.40" High 1.39" Journal Dia.		TX-13-2Y
Turbine Hub	Chrysler Industrial TF-8	24 Spline	3.96" O. D., 1.40" High 1.39" Journal Dia.		TX-13-3Y
WASHERS					
Stator Cap	Jatco, Industrial	Aluminum, Use With TW-2-4 Bearing	3.07" O.D., 1.69" I.D., .61" Thick		JW-4-23
Bronze Washer	Chrysler, Industrial	4 Lugs	2.75" O.D., 1.81" I.D., .06" Thick, .30" Wide Lugs		TW-3-1

INDUSTRIAL PARTS

PART #	DESCRIPTION
0641409-00	Clutch Plate Steel
5141326-00	Clutch Plate Steel
5197444-00	Disc Assembly
0159219-00	Ring
5157351-00	Oil Seal Retainer
0158096-00	Drive Wheel Hub Flange
1315453-00	Brake Shoe, use 1500213-04
1500213-04	Brake Shoe Assembly Replaces (1315453-00) Non-asbestos
5023338-00	Bushing
0225218-00	Cover & Plate Assembly, Clutch
0225219-00	Cover & Plate Assembly, Clutch
5077443-00	Pedal Pad (Rubber)
0643900-00	Drive Plate w/Ring Gear
5134246-00	Drive Plate, No Studs
0158377-00	Retainer
5006755-00	Flex Plate
5145586-00	Flywheel Assembly, For 10-3/4" Converter w/Bolts
5145526-00	Clutch Drive Plate
5160408-99	Flywheel Assembly - 164 Tooth Ring Gear
0158124-00	Clutch Disc
0591017-00	Bushing
0636888-00	Accelerator Pedal
224772	Clutch Plate, Steel
5148024-00	Pressure Plate (Clutch)
5002695-00	Converter, New
5154068-00	Converter, Rebuilt
5154068-01	Converter, Rebuilt
5154068-05	Converter, Rebuilt
5154068-06	Converter, Rebuilt
0005128-00	Converter, Rebuilt
0668248-00	12" Cover & Plate Assembly
0669666-00	11" Cover & Plate Assembly
0669667-00	Driven Plate Clutch Assembly
5197524-00	Thrust Bearing
5150428-01	Washer
5147526-00	Drive Plate
195856	Ring Gear

INDUSTRIAL PARTS

PART #	DESCRIPTION
BORG & BECK CONVERTER PARTS	
FH-1-7	Bolt-In Hub (Aluminum Impeller) For Borg & Beck Bolted Aluminum Converters - <i>Internal Parts Listed Below</i>
FO-1-20	Bolt-In Hub O-ring
FO-1-21	Cover O-ring
FO-1-22	Cover Gasket, 34 Holes
FX-21-8	Hub Bolt
FX-21-9	Lockwasher
FW-2	Steel Washer
FW-3	Bronze Washer
FW-4	Aluminum Washer
FW-9	Fiber Washer
FC-6-1	Sprag Assembly
FX-14	Inner Race
FX-15	Outer Race
BORG-WARNER CONVERTER DRIVE PLATE	
WX-22-100P	Plate Only (BW # 00-201-1024, Clark 224338)
WX-22-100R	Reinforcement Plate (BW # 00-201-1025)
WX-22-100K	Plate Kit (BW # 290004, Clark 879932, Caterpillar 642971, White 35-A-322)
246615	Ring, Backing
MISCELLANEOUS	
450263	Oil Pump Assembly - (Clark)
6551A	Oil Pump Assembly - (See Note #1)
6551D	Oil Pump Assembly - (See Note #2)
6AT11-60	Oil Pump Assembly - (See Note #3)

INDUSTRIAL PARTS

NOTE #1

YALE	592196
HYSTER	1953
CLARK	878337
ALLIS CHALMERS	4907656
FORD	B1AZ-7A103A
MASSEY FERGUSON	103-4969-M91 530-718-M91 1003-508-010
CATERPILLAR (TOWMOTOR)	310927
WARNER GEAR	3-60A60C 3-10A60C 3-12A60C 3-14A60C 3-4A60C (BODY & GEAR ONLY)
FUNK	4003358
LPM	000-675-1005

NOTE #2

FORD	C3AZ-7A103E
FUNK	4050487
MASSEY FERGUSON	1003-508-006

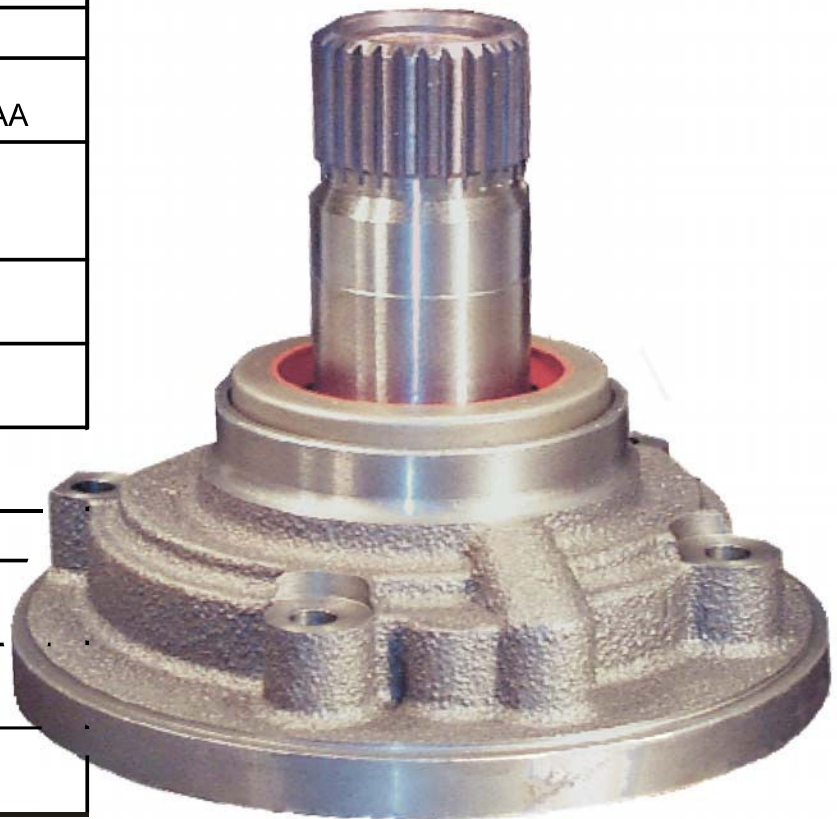
NOTE #3

YALE	622248
CLARK	896467
BAKER	A711B1
WHITE	35A311
ALLIS CHALMERS	4991266
CATERPILLAR PETTIBONE	643877
MERCURY	PMP10-3
LPM	000-700-1040

NEW TRANSMISSION OIL PUMP ASSEMBLIES

Application	OEM Number
Allis Chambers	101825
Borg Warner	1003-508-011 1003-508-003 1003-508-008 1003-508-001 1003-508-002 1003-508-005 1003-508-010 6AT1160
Caterpillar	643864
Clark	450263 896467
Dana-Spicer	
FAI	DS0000039
Ford/New Holland	XN3901666 E4NN7A103AA
Funk	4003358 4003359 4050487
Hyster	195360 17783
JCB	20/900400 04/500217
JI Case	L30488 R29995
John Deere	AT101451
Manitou	136353
Massey Ferguson/Agco	530718-M92 530718-M91
Yale	056219600 0592197

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