

\* \* 257 SERIES \* \*  
\* \* ENGINEERING CODEBOOK \* \*

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THROUGH THE USE OF THIS CATALOG ALL THE COMPONENT PARTS OF ANY PERMCO PUMP OR MOTOR CAN BE DETERMINED EXCLUDING FASTENERS.

THE FOLLOWING IS THE CODE BOOK FOR THE 257 SERIES.

EACH MODEL SERIES IS DIVIDED IN THE FOLLOWING MANNER:

- I. SHAFT END COVERS FOLLOWED BY SHAFT END COVER SMALL PARTS.
- II. PORT END COVERS FOLLOWED BY PORT END COVER SMALL PARTS.
- III. GEAR HOUSINGS FOLLOWED BY:
  - A. GEAR HOUSING SMALL PARTS.
  - B. GEARS.
- IV. DRIVE SHAFTS OR GEAR/SHAFTS FOLLOWED BY DRIVE SHAFT SMALL PARTS.
- V. BEARING CARRIERS FOLLOWED BY BEARING CARRIER SMALL PARTS.
- VI. CONNECTING SHAFTS.

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BELOW IS AN EXAMPLE OF HOW TO USE THIS CATALOG:

SINGLE ASSEMBLY CODE: P7500A079AHNP20-6

TANDEM ASSEMBLY CODE: P7500B079AHNP20-6BNI12-1

P	DENOTES PUMP	(M DENOTES MOTOR)
7500	SERIES	
A B OR C	MODEL TYPE	(A-SINGLE B-TANDEM C-SPECIAL DRIVE SHAFT)
079	SHAFT END COVER	
AH	PORT END COVER	
NP20	GEAR HOUSING	(FIRST)
6	DRIVE SHAFT	
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B	BEARING CARRIER	
NI12	GEAR HOUSING	(SECOND)
1	CONNECTING SHAFT	

THE ROTATION OF ANY UNIT IS IDENTIFIED BY THE FIRST DIGIT OF THE SHAFT END COVER CODE (SEE INDIVIDUAL SERIES COVER PAGES). THE GEAR SIZE IS DENOTED BY THE TWO (2) DIGITS IN THE GEAR HOUSING CODE.

CODE. . . . . :	05	07	10	12	15	17	20	22	25	27	30
SIZE IN INCHES:	1/2	3/4	1	1-1/4	1-1/2	1-3/4	2	2-1/4	2-1/2	2-3/4	3

ROTATION IS VIEWED LOOKING AT SHAFT END (SHAFT ON TOP.)

AN ASTERISK (\*) DENOTES EITHER OBSOLETE OR SPECIAL. PLEASE CONSULT FACTORY AS THEY MAY BE REPLACED BY OTHER STANDARD ITEMS.

\* \* ABBREVIATIONS USED IN PART DESCRIPTIONS \* \*

SHAFT END COVER DESCRIPTIONS

FT MT      FOOT MOUNT  
G F TOP    GREASE FITTING ON TOP (OTHERS ON BOTTOM)  
PAD MT     PAD MOUNT  
PB          PIGGYBACK PUMP  
PD          PILOT DIAMETER  
PX          PILOT EXTENSION  
RD FLG     ROUND FLANGE  
W/MTG SLT WITH MOUNTING SLOT  
WD          WITH DRAIN  
WD2        WITH DRAIN AT 2 OCLOCK POSITION  
WD8        WITH DRAIN AT 8 OCLOCK POSITION  
WD12       WITH DRAIN AT 12 OCLOCK POSITION  
W2D        WITH 2 DRAINS

PORT END COVER DESCRIPTIONS

OS          PORTS ARE OUT THE SIDE  
PB          PIGGYBACK PUMP  
XSD        EXTENDED STUDS

SHAFT DESCRIPTIONS

T          TOOTH  
PB          PIGGYBACK PUMP  
W/THD END WITH THREADED END

PORTING DESCRIPTIONS

JIC        STRAIGHT THREAD. PORT SIZE REFERS TO O.D. OF TUBE.  
SF        SPLIT FLANGE PORTS. PORT SIZE REFERS TO FLANGE HOLE DIAMETER.  
T        INTERNAL CONNECTIONS TO FRONT & BACK SECTION.  
B        CONNECTION TO BACK SECTION.  
F        CONNECTION TO FRONT SECTION.

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 \* 257 SERIES \*  
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SERIES IDENTIFICATION

STUD HOLES - 4 AT 11/16 DIAMETER  
 STUD DIA. - 5/8  
 HOUSING HEIGHT - 6 INCHES  
 HOUSING WIDTH - GEAR SIZE + 1/2 INCH  
**BOLT TORQUE - 200 FT-LBS**

GEAR WIDTHS AVAILABLE

1/2 3/4 1 1-1/4 1-1/2 1-3/4 2 2-1/4 AND 2-1/2 INCHES.

SHAFT END COVERS

THE TYPE OF SHAFT END COVER IS DETERMINED BY THE ENTIRE 3 DIGIT DESIGNATION.  
 THIS SERIES IS AVAILABLE BOTH WITH AND WITHOUT OUTBOARD BEARINGS.

THE FIRST DIGIT OF THE SHAFT END COVER CODE DESIGNATES PUMP/MOTOR ROTATION.

		<u>CW</u>	<u>CCW</u>	<u>DBL</u>	<u>PUMP</u>	<u>MOTOR</u>	<u>BEARING</u>
ALL CODES BEGINNING WITH	0	XX			XX		
	1		XX		XX		
	3	XX			XX		XX
	4		XX		XX		XX
	7			XX		XX	XX
	8			XX		XX	

DRIVE SHAFTS

C - DENOTES SPECIAL SEPARATE DRIVE SHAFT. (REFER TO CODING ILLUSTRATION ON INTRODUCTORY PAGES).  
 THESE CODES MUST BE USED IN CONJUNCTION WITH SHAFT END COVERS WHICH CONTAIN OUTBOARD BEARINGS.

PERMCO MODEL: 257

Shaft End Covers

CODE	QTY	PART NUMBER	D E S C R I P T I O N
031	1	574-00605	257 'B' SEC 4-BLT CW
050	1	574-01374	257 'C' SEC 2&4-BLT CW
067	1	574-00558	257 'C' SEC 4-BLT CW
086	1	574-00784	257 'B' SEC 2 BLT CW
087	1	574-00624	257 'C' SEC 2-BLT CW
090	1	574-01373	257 'B' SEC 2&4-BLT CW
099	1	574-01250	257 SEC PAD MOUNT CW
131	1	574-00605	257 'B' SEC 4-BLT CCW
150	1	574-01374	257 'C' SEC 2&4-BLT CCW
167	1	574-00558	257 'C' SEC 4-BLT CCW
186	1	574-00784	257 'B' SEC 2 BLT CCW
187	1	574-00624	257 'C' SEC 2-BLT CCW
190	1	574-01373	257 'B' SEC 2&4-BLT CCW
199	1	574-01250	257 SEC PAD MOUNT CCW
331	1	574-00605	257 'B' SEC 4-BLT CW
350	1	574-01374	257 'C' SEC 2&4-BLT CW
367	1	574-00558	257 'C' SEC 4-BLT CW
386	1	574-00784	257 'B' SEC 2 BLT CW
387	1	574-00624	257 'C' SEC 2-BLT CW
390	1	574-01373	257 'B' SEC 2&4-BLT CW
399	1	574-01250	257 SEC PAD MOUNT CW
431	1	574-00605	257 'B' SEC 4-BLT CCW
450	1	574-01374	257 'C' SEC 2&4-BLT CCW
467	1	574-00558	257 'C' SEC 4-BLT CCW
486	1	574-00784	257 'B' SEC 2 BLT CCW
487	1	574-00624	257 'C' SEC 2-BLT CCW
490	1	574-01373	257 'B' SEC 2&4-BLT CCW
499	1	574-01250	257 SEC PAD MOUNT CCW
731	1	574-00605-4	257 'B' SEC 4-BLT W/DRAIN-BIRO
750	1	574-01374-4	257 'C' SEC 2&4-BLT W/DRAIN-BIRO
767	1	574-00558-4	257 'C' SEC 4-BLT W/DRAIN-BIRO
786	1	574-00784-4	257 'B' SEC 2-BLT W/DRAIN-BIRO
787	1	574-00624-4	257 'C' SEC 2-BLT W/DRAIN-BIRO
790	1	574-01373-4	257 'B' SEC 2&4-BLT W/DRAIN-BIRO
799	1	574-01250-4	257 SEC PAD MOUNT W/DRAIN-BIRO
831	1	574-00605-4	257 'B' SEC 4-BLT W/DRAIN-BIRO
850	1	574-01374-4	257 'C' SEC 2&4-BLT W/DRAIN-BIRO
867	1	574-00558-4	257 'C' SEC 4-BLT W/DRAIN-BIRO
886	1	574-00784-4	257 'B' SEC 2-BLT W/DRAIN-BIRO
887	1	574-00624-4	257 'C' SEC 2-BLT W/DRAIN-BIRO
890	1	574-01373-4	257 'B' SEC 2&4-BLT W/DRAIN-BIRO
899	1	574-01250-4	257 SEC PAD MOUNT W/DRAIN-BIRO

## PERMCO MODEL: 257

## SHAFT END COVER SMALL PARTS

<u>CODE</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>D E S C R I P T I O N</u>	<u>CODE</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>D E S C R I P T I O N</u>
031	2	921-00647-P	257 BUSHING	199	2	921-00647-P	257 BUSHING
031	1	W62-26-17	3000 5000 DOUBLE LIP SEAL	199	1	W62-26-17	3000 5000 DOUBLE LIP SEAL
031	1	S-0280	PLUG	199	1	S-0280	PLUG
050	2	921-00647-P	257 BUSHING	331	2	921-00647-P	257 BUSHING
050	1	W62-26-17	3000 5000 DOUBLE LIP SEAL	331	1	W023-283	5000 SNAP RING
050	1	S-0280	PLUG	331	1	W58-47	5000 BALL BEARING
				331	1	W62-26-17	3000 5000 DOUBLE LIP SEAL
067	2	921-00647-P	257 BUSHING	331	1	S-0280	PLUG
067	1	W62-26-17	3000 5000 DOUBLE LIP SEAL				
067	1	S-0280	PLUG	350	2	921-00647-P	257 BUSHING
				350	1	W023-283	5000 SNAP RING
086	2	921-00647-P	257 BUSHING	350	1	W58-47	5000 BALL BEARING
086	1	W62-26-17	3000 5000 DOUBLE LIP SEAL	350	1	W62-26-17	3000 5000 DOUBLE LIP SEAL
086	1	S-0280	PLUG	350	1	S-0280	PLUG
087	2	921-00647-P	257 BUSHING	367	2	921-00647-P	257 BUSHING
087	1	W62-26-17	3000 5000 DOUBLE LIP SEAL	367	1	W023-283	5000 SNAP RING
087	1	S-0280	PLUG	367	1	W58-47	5000 BALL BEARING
				367	1	W62-26-17	3000 5000 DOUBLE LIP SEAL
090	2	921-00647-P	257 BUSHING	367	1	S-0280	PLUG
090	1	W62-26-17	3000 5000 DOUBLE LIP SEAL				
090	1	S-0280	PLUG	386	2	921-00647-P	257 BUSHING
				386	1	W023-283	5000 SNAP RING
099	2	921-00647-P	257 BUSHING	386	1	W58-47	5000 BALL BEARING
099	1	W62-26-17	3000 5000 DOUBLE LIP SEAL	386	1	W62-26-17	3000 5000 DOUBLE LIP SEAL
099	1	S-0280	PLUG	386	1	S-0280	PLUG
131	2	921-00647-P	257 BUSHING	387	2	921-00647-P	257 BUSHING
131	1	W62-26-17	3000 5000 DOUBLE LIP SEAL	387	1	W023-283	5000 SNAP RING
131	1	S-0280	PLUG	387	1	W58-47	5000 BALL BEARING
				387	1	W62-26-17	3000 5000 DOUBLE LIP SEAL
150	2	921-00647-P	257 BUSHING	387	1	S-0280	PLUG
150	1	W62-26-17	3000 5000 DOUBLE LIP SEAL				
150	1	S-0280	PLUG	390	2	921-00647-P	257 BUSHING
				390	1	W023-283	5000 SNAP RING
167	2	921-00647-P	257 BUSHING	390	1	W58-47	5000 BALL BEARING
167	1	W62-26-17	3000 5000 DOUBLE LIP SEAL	390	1	W62-26-17	3000 5000 DOUBLE LIP SEAL
167	1	S-0280	PLUG	390	1	S-0280	PLUG
186	2	921-00647-P	257 BUSHING	399	2	921-00647-P	257 BUSHING
186	1	W62-26-17	3000 5000 DOUBLE LIP SEAL	399	1	W023-283	5000 SNAP RING
186	1	S-0280	PLUG	399	1	W58-47	5000 BALL BEARING
				399	1	W62-26-17	3000 5000 DOUBLE LIP SEAL
187	2	921-00647-P	257 BUSHING	399	1	S-0280	PLUG
187	1	W62-26-17	3000 5000 DOUBLE LIP				
187	1	S-0280	PLUG	431	2	921-00647-P	257 BUSHING
				431	1	W023-283	5000 SNAP RING
190	2	921-00647-P	257 BUSHING	431	1	W58-47	5000 BALL BEARING
190	1	W62-26-17	3000 5000 DOUBLE LIP SEAL	431	1	W62-26-17	3000 5000 DOUBLE LIP SEAL
190	1	S-0280	PLUG	431	1	S-0280	PLUG

## PERMCO MODEL: 257

## SHAFT END COVER SMALL PARTS

CODE	QTY	PART NUMBER	D E S C R I P T I O N	CODE	QTY	PART NUMBER	D E S C R I P T I O N
450	2	921-00647-P	257 BUSHING	767	2	921-00647-P	257 BUSHING
450	1	W023-283	5000 SNAP RING	767	2	L-0280-K	CHECK VALVE
450	1	W58-47	5000 BALL BEARING	767	1	565-01194	1/4" ORB, HOLLOW HEX PLUG
450	1	W62-26-17	3000 5000 DOUBLE LIP SEAL	767	1	W023-283	5000 SNAP RING
450	1	S-0280	PLUG	767	1	W58-47	5000 BALL BEARING
				767	1	W62-49-8	5000 HP SEAL
				767	1	ZB-0558	5000 SPACER
467	2	921-00647-P	257 BUSHING	786	2	921-00647-P	257 BUSHING
467	1	W023-283	5000 SNAP RING	786	2	L-0280-K	CHECK VALVE
467	1	W58-47	5000 BALL BEARING	786	1	565-01194	1/4" ORB, HOLLOW HEX PLUG
467	1	W62-26-17	3000 5000 DOUBLE LIP SEAL	786	1	W023-283	5000 SNAP RING
467	1	S-0280	PLUG	786	1	W58-47	5000 BALL BEARING
				786	1	W62-49-8	5000 HP SEAL
				786	1	ZB-0558	5000 SPACER
486	2	921-00647-P	257 BUSHING	787	2	921-00647-P	257 BUSHING
486	1	W023-283	5000 SNAP RING	787	2	L-0280-K	CHECK VALVE
486	1	W58-47	5000 BALL BEARING	787	1	565-01194	1/4" ORB, HOLLOW HEX PLUG
486	1	W62-26-17	3000 5000 DOUBLE LIP SEAL	787	1	W023-283	5000 SNAP RING
486	1	S-0280	PLUG	787	1	W58-47	5000 BALL BEARING
				787	1	W62-49-8	5000 HP SEAL
				787	1	ZB-0558	5000 SPACER
487	2	921-00647-P	257 BUSHING	790	2	921-00647-P	257 BUSHING
487	1	W023-283	5000 SNAP RING	790	2	L-0280-K	CHECK VALVE
487	1	W58-47	5000 BALL BEARING	790	1	565-01194	1/4" ORB, HOLLOW HEX PLUG
487	1	W62-26-17	3000 5000 DOUBLE LIP SEAL	790	1	W023-283	5000 SNAP RING
487	1	S-0280	PLUG	790	1	W58-47	5000 BALL BEARING
				790	1	W62-49-8	5000 HP SEAL
				790	1	ZB-0558	5000 SPACER
490	2	921-00647-P	257 BUSHING	799	2	921-00647-P	257 BUSHING
490	1	W023-283	5000 SNAP RING	799	2	L-0280-K	CHECK VALVE
490	1	W58-47	5000 BALL BEARING	799	1	565-01194	1/4" ORB, HOLLOW HEX PLUG
490	1	W62-26-17	3000 5000 DOUBLE LIP SEAL	799	1	W023-283	5000 SNAP RING
490	1	S-0280	PLUG	799	1	W58-47	5000 BALL BEARING
				799	1	W62-49-8	5000 HP SEAL
				799	1	ZB-0558	5000 SPACER
499	2	921-00647-P	257 BUSHING	799	2	921-00647-P	257 BUSHING
499	1	W023-283	5000 SNAP RING	799	2	L-0280-K	CHECK VALVE
499	1	W58-47	5000 BALL BEARING	799	1	565-01194	1/4" ORB, HOLLOW HEX PLUG
499	1	W62-26-17	3000 5000 DOUBLE LIP SEAL	799	1	W023-283	5000 SNAP RING
499	1	S-0280	PLUG	799	1	W58-47	5000 BALL BEARING
				799	1	W62-49-8	5000 HP SEAL
				799	1	ZB-0558	5000 SPACER
731	2	921-00647-P	257 BUSHING	831	2	921-00647-P	257 BUSHING
731	2	L-0280-K	CHECK VALVE	831	2	L-0280-K	CHECK VALVE
731	1	565-01194	1/4" ORB, HOLLOW HEX PLUG	831	1	565-01194	1/4" ORB, HOLLOW HEX PLUG
731	1	W023-283	5000 SNAP RING	831	1	W023-283	5000 SNAP RING
731	1	W58-47	5000 BALL BEARING	831	1	W62-49-8	5000 HP SEAL
731	1	W62-49-8	5000 HP SEAL	831	1	558-00474-BS	5000 BEARING SPACER
731	1	ZB-0558	5000 SPACER				
750	2	921-00647-P	257 BUSHING				
750	2	L-0280-K	CHECK VALVE				
750	1	565-01194	1/4" ORB, HOLLOW HEX PLUG				
750	1	W023-283	5000 SNAP RING				
750	1	W58-47	5000 BALL BEARING				
750	1	W62-49-8	5000 HP SEAL				
750	1	ZB-0558	5000 SPACER				

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SHAFT END COVER SMALL PARTS

<u>CODE</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>D E S C R I P T I O N</u>	<u>CODE</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>D E S C R I P T I O N</u>
850	2	921-00647-P	257 BUSHING	887	2	921-00647-P	257 BUSHING
850	2	L-0280-K	CHECK VALVE	887	2	L-0280-K	CHECK VALVE
850	1	565-01194	1/4" ORB, HOLLOW HEX PLUG	887	1	565-01194	1/4" ORB, HOLLOW HEX PLUG
850	1	W023-283	5000 SNAP RING	887	1	W023-283	5000 SNAP RING
850	1	W62-49-8	5000 HP SEAL	887	1	W62-49-8	5000 HP SEAL
850	1	558-00474-BS	5000 BEARING SPACER	887	1	558-00474-BS	5000 BEARING SPACER
867	2	921-00647-P	257 BUSHING	890	2	921-00647-P	257 BUSHING
867	2	L-0280-K	CHECK VALVE	890	2	L-0280-K	CHECK VALVE
867	1	565-01194	1/4" ORB, HOLLOW HEX PLUG	890	1	565-01194	1/4" ORB, HOLLOW HEX PLUG
867	1	W023-283	5000 SNAP RING	890	1	W023-283	5000 SNAP RING
867	1	W62-49-8	5000 HP SEAL	890	1	W62-49-8	5000 HP SEAL
867	1	558-00474-BS	5000 BEARING SPACER	890	1	558-00474-BS	5000 BEARING SPACER
886	2	921-00647-P	257 BUSHING	899	2	921-00647-P	257 BUSHING
886	2	L-0280-K	CHECK VALVE	899	2	L-0280-K	CHECK VALVE
886	1	565-01194	1/4" ORB, HOLLOW HEX PLUG	899	1	565-01194	1/4" ORB, HOLLOW HEX PLUG
886	1	W023-283	5000 SNAP RING	899	1	W023-283	5000 SNAP RING
886	1	W62-49-8	5000 HP SEAL	899	1	W62-49-8	5000 HP SEAL
886	1	558-00474-BS	5000 BEARING SPACER	899	1	558-00474-BS	5000 BEARING SPACER

For tell-tale applications a "D" must follow the P257\_\_\_.

Shaft end cover must be noted to have machining done for tell-tale drain.

Extra small parts needed for tell-tale unit.

<u>QTY</u>	<u>PART NUMBER</u>	<u>D E S C R I P T I O N</u>
1	OZ-0961	SEAL RETAINER "TELL-TALE"
1	226-01015	SEAL FOR "TELL-TALE"
1	W023-283	5000 SNAP RING
1	W0-19	PIPE PLUG/SOC HD 1/8-27 NPT
1	K-2995-47	RETAINER O'RING

## PERMCO MODEL: 257

## Port End Covers

CODE	QTY	PART NUMBER	D E S C R I P T I O N	CODE	QTY	PART NUMBER	D E S C R I P T I O N
AA	1	592-00640-1-1	3/4 SIDE X 1/2 SIDE (JIC)	EI	1	592-00640-5-9	1-1/2 SIDE X BLANK (JIC)
AB	1	592-00640-1-2	3/4 REAR X 1/2 REAR (JIC)	EV	1	592-00640-5-22	1/2 SIDE X 1/2 SIDE (JIC)
AC	1	592-00640-1-3	3/4 SIDE X 1/2 REAR (JIC)	EW	1	592-00640-5-23	1/2 REAR X 1/2 REAR (JIC)
AD	1	592-00640-1-4	3/4 REAR X 1/2 SIDE (JIC)	EY	1	592-00640-5-25	1/2 REAR X 1/2 SIDE (JIC)
AH	1	592-00642	BLANK MULTIPLE	EZ	1	592-00640-5-26	1/2 SIDE X 1/2 REAR (JIC)
AI	1	592-00640-1-9	1/2 SIDE X BLANK (JIC)	FA	1	592-00640-6-1	3/4 SIDE X 1 SIDE (JIC)
AV	1	592-00640-1-22	3/4 SIDE X 3/4 SIDE (JIC)	FB	1	592-00640-6-2	3/4 REAR X 1 REAR (JIC)
AW	1	592-00640-1-23	3/4 REAR X 3/4 REAR (JIC)	FC	1	592-00640-6-3	3/4 REAR X 1 SIDE (JIC)
AX	1	592-00642	BLANK MULTIPLE XSD	FD	1	592-00640-6-4	3/4 SIDE X 1 REAR (JIC)
AY	1	592-00640-1-25	3/4 SIDE X 3/4 REAR (JIC)	FE	1	592-00640-6-5	3/4 SIDE X 1-1/4 SIDE (JIC)
AZ	1	592-00640-1-26	3/4 REAR X 3/4 SIDE (JIC)	FG	1	592-00640-6-7	3/4 REAR X 1-1/4 REAR (JIC)
BA	1	592-00640-2-1	1 SIDE X 3/4 SIDE (JIC)	FH	1	592-00640-6-8	3/4 SIDE OUT X 1-1/4 REAR IN (JIC)
BB	1	592-00640-2-2	1 REAR X 3/4 REAR (JIC)	FI	1	592-00640-6-9	1/2 REAR X BLANK (JIC)
BC	1	592-00640-2-3	1 SIDE X 3/4 REAR (JIC)	GA	1	592-00640-7-1	1 SIDE X 1-1/4 SIDE (JIC)
BD	1	592-00640-2-4	1 REAR X 3/4 SIDE (JIC)	GB	1	592-00640-7-2	1 REAR X 1-1/4 REAR (JIC)
BI	1	592-00640-2-9	3/4 SIDE X BLANK (JIC)	GC	1	592-00640-7-3	1 REAR X 1-1/4 SIDE (JIC)
BV	1	592-00640-2-22	1 SIDE X 1 SIDE (JIC)	GD	1	592-00640-7-4	1 SIDE X 1-1/4 REAR (JIC)
BW	1	592-00640-2-23	1 REAR X 1 REAR (JIC)	GI	1	592-00640-7-9	3/4 REAR X BLANK (JIC)
BY	1	592-00640-2-25	1 SIDE X 1 REAR (JIC)	HA	1	592-00640-8-1	1-1/4 SIDE X 1-1/2 SIDE (JIC)
BZ	1	592-00640-2-26	1 REAR X 1 SIDE (JIC)	HC	1	592-00640-8-3	1-1/4 REAR X 1-1/2 SIDE (JIC)
CA	1	592-00640-3-1	1-1/4 SIDE X 1 SIDE (JIC)	HD	1	592-00640-8-4	1 SIDE X 1-1/2 SIDE (JIC)
CB	1	592-00640-3-2	1-1/4 REAR X 1 REAR (JIC)	HF	1	592-00640-8-6	1 REAR X 1-1/2 SIDE (JIC)
CC	1	592-00640-3-3	1-1/4 SIDE X 1 REAR (JIC)	HI	1	592-00640-8-9	1 REAR X BLANK (JIC)
CD	1	592-00640-3-4	1-1/4 REAR X 1 SIDE (JIC)	IA	1	592-00640-9-1	BLANK X 1/2 SIDE (JIC)
CE	1	592-00640-3-5	1-1/4 SIDE X 3/4 SIDE (JIC)	IB	1	592-00640-9-2	BLANK X 3/4 SIDE (JIC)
CG	1	592-00640-3-7	1-1/4 REAR X 3/4 REAR (JIC)	IC	1	592-00640-9-3	BLANK X 1 SIDE (JIC)
CH	1	592-00640-3-8	1-1/4 SIDEIN X 3/4 REAROUT(JIC)	ID	1	592-00640-9-4	BLANK X 1-1/4 SIDE (JIC)
CI	1	592-00640-3-9	1 SIDE X BLANK (JIC)	IE	1	592-00640-9-5	BLANK X 1-1/2 SIDE (JIC)
CV	1	592-00640-3-22	1-1/4 SIDE X 1-1/4 SIDE (JIC)	IF	1	592-00640-9-6	BLANK X 1/2 REAR (JIC)
CW	1	592-00640-3-23	1-1/4 REAR X 1-1/4 REAR (JIC)	IG	1	592-00640-9-7	BLANK X 3/4 REAR (JIC)
CY	1	592-00640-3-25	1-1/4 SIDE X 1-1/4 REAR (JIC)	IH	1	592-00640-9-8	BLANK X 1 REAR (JIC)
CZ	1	592-00640-3-26	1-1/4 REAR X 1-1/4 SIDE (JIC)	IJ	1	592-00640-9-10	BLANK X 1-1/4 REAR (JIC)
DA	1	592-00640-4-1	1-1/2 SIDE X 1-1/4 SIDE (JIC)	IK	1	592-00640-9-11	BLANK X 1/2 SIDE (SF)
DB	1	592-00640-4-2	1-1/2 SIDE X 1 SIDE (JIC)	IL	1	592-00640-9-12	BLANK X 3/4 SIDE (SF)
DC	1	592-00640-4-3	1-1/2 SIDE X 1-1/4 REAR (JIC)	IM	1	592-00640-9-13	BLANK X 1 SIDE (SF)
DF	1	592-00640-4-6	1-1/2 SIDE X 1 REAR (JIC)	IN	1	592-00640-9-14	BLANK X 1-1/4 SIDE (SF)
DI	1	592-00640-4-9	1-1/4 SIDE X BLANK (JIC)	IO	1	592-00640-9-15	BLANK X 1-1/2 SIDE (SF)
DV	1	592-00640-4-22	1-1/2 SIDE X 1-1/2 SIDE (JIC)	IP	1	592-00640-9-16	BLANK X 2 SIDE (SF)
EA	1	592-00640-5-1	1/2 SIDE X 3/4 SIDE (JIC)	JA	1	592-00640-10-1	1 SIDE X 3/4 SIDE (BSPP)
EB	1	592-00640-5-2	1/2 REAR X 3/4 REAR (JIC)	JB	1	592-00640-10-2	1 REAR X 3/4 REAR (BSPP)
EC	1	592-00640-5-3	1/2 REAR X 3/4 SIDE (JIC)	JC	1	592-00640-10-3	1 SIDE X 3/4 REAR (BSPP)
ED	1	592-00640-5-4	1/2 SIDE X 3/4 REAR (JIC)	JD	1	592-00640-10-4	1 REAR X 3/4 SIDE (BSPP)

**PERMCO MODEL: 257**

**Port End Covers**

<u>CODE</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>D E S C R I P T I O N</u>	<u>CODE</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>D E S C R I P T I O N</u>
JI	1	592-00640-10-9	1-1/4 REAR X BLANK (JIC)	PF	1	592-00640-16-6	1-1/2 SIDE X 1 SIDE (SF)
JV	1	592-00640-10-22	1 SIDE X 1 SIDE (BSPP)	PG	1	592-00640-16-7	1-1/2 SIDE X 1-1/4 SIDE (SF)
JW	1	592-00640-10-23	1 REAR X 1 REAR (BSPP)	PH	1	592-00640-16-8	1/2 SIDE X 3/4 SIDE (SF)
JY	1	592-00640-10-25	1 SIDE X 1 REAR (BSPP)	PI	1	592-00640-16-9	2 SIDE X BLANK (SF)
JZ	1	592-00640-10-26	1 REAR X 1 SIDE (BSPP)	PJ	1	592-00640-16-10	1/2 SIDE X 1 SIDE (SF)
KA	1	592-00640-11-1	1-1/4 SIDE X 1 SIDE (BSPP)	PK	1	592-00640-16-11	3/4 SIDE X 1 SIDE (SF)
KB	1	592-00640-11-2	1-1/4 REAR X 1 REAR (BSPP)	PL	1	592-00640-16-12	3/4 SIDE X 1-1/4 SIDE (SF)
KC	1	592-00640-11-3	1-1/4 SIDE X 1 REAR (BSPP)	PM	1	592-00640-16-13	1 SIDE X 1-1/4 SIDE (SF)
KD	1	592-00640-11-4	1-1/4 REAR X 1 SIDE (BSPP)	PN	1	592-00640-16-14	1 SIDE X 1-1/2 SIDE (SF)
KI	1	592-00640-11-9	1/2 SIDE X BLANK (SF)	PO	1	592-00640-16-15	1-1/4 SIDE X 1-1/2 SIDE (SF)
KV	1	592-00640-11-22	1-1/4 SIDE X 1-1/4 SIDE (BSPP)	PP	1	592-00640-16-16	2 SIDE X 1-1/4 SIDE (SF)
KW	1	592-00640-11-23	1-1/4 REAR X 1-1/4 REAR (BSPP)	PQ	1	592-00640-16-17	2 SIDE X 1-1/2 SIDE (SF)
KY	1	592-00640-11-25	1-1/4 SIDE X 1-1/4 REAR (BSPP)	PR	1	592-00640-16-18	1-1/4 SIDE X 2 SIDE (SF)
KZ	1	592-00640-11-26	1-1/4 REAR X 1-1/4 SIDE (BSPP)	PS	1	592-00640-16-19	1-1/2 SIDE X 2 SIDE (SF)
LA	1	592-00640-12-1	1-1/2 SIDE X 1-1/4 SIDE (BSPP)	PV	1	592-00640-16-22	1/2 SIDE X 1/2 SIDE (SF)
LC	1	592-00640-12-3	1-1/2 SIDE X 1-1/4 REAR (BSPP)	PW	1	592-00640-16-23	3/4 SIDE X 3/4 SIDE (SF)
LI	1	592-00640-12-9	3/4 SIDE X BLANK (SF)	PX	1	592-00640-16-24	1 SIDE X 1 SIDE (SF)
LV	1	592-00640-12-22	1-1/2 SIDE X 1-1/2 SIDE (BSPP)	PY	1	592-00640-16-25	1-1/4 SIDE X 1-1/4 SIDE (SF)
MA	1	592-00640-13-1	3/4 SIDE X 1 SIDE (BSPP)	PZ	1	592-00640-16-26	1-1/2 SIDE X 1-1/2 SIDE (SF)
MB	1	592-00640-13-2	3/4 REAR X 1 REAR (BSPP)	QI	1	592-00640-3-0	1-1/4 JIC X 3/4 JIC REARIN, SIDEOUT
MC	1	592-00640-13-3	3/4 REAR X 1 SIDE (BSPP)	RI	1	592-00640-6-0	3/4 JIC X 1-1/4 JIC REAROUT, SIDEIN
MD	1	592-00640-13-4	3/4 SIDE X 1 REAR (BSPP)	RP	1	592-00640-18-16	2 SIDE X 1 SIDE (SF)
MI	1	592-00640-13-9	1 SIDE X BLANK (SF)	TP	1	592-00640-19-16	1 SIDE X 2 SIDE (SF)
MV	1	592-00640-13-22	3/4 SIDE X 3/4 SIDE (BSPP)				
MW	1	592-00640-13-23	3/4 REAR X 3/4 REAR (BSPP)				
MY	1	592-00640-13-25	3/4 REAR X 3/4 SIDE (BSPP)				
MZ	1	592-00640-13-26	3/4 SIDE X 3/4 REAR (BSPP)	QQ	1	592-00739-17-17	MOTOR 3/4 JIC X 3/4 JIC OS
NA	1	592-00640-14-1	1 SIDE X 1-1/4 SIDE (BSPP)	RR	1	592-00739-18-18	MOTOR 1 JIC X 1 JIC OS
NB	1	592-00640-14-2	1 REAR X 1-1/4 REAR (BSPP)	SS	1	592-00739-19-19	MOTOR 1-1/4 JIC X 1-1/4 JIC OS
NC	1	592-00640-14-3	1 REAR X 1-1/4 SIDE (BSPP)	TT	1	592-00739-20-20	MOTOR 1-1/2 JIC X 1-1/2 JIC OS
ND	1	592-00640-14-4	1 SIDE X 1-1/4 REAR (BSPP)	UU	1	592-00739-21-21	MOTOR 3/4 SF X 3/4 SF OS
NI	1	592-00640-14-9	1-1/4 SIDE X BLANK (SF)	VV	1	592-00739-22-22	MOTOR 1 SF X 1 SF OS
OA	1	592-00640-15-1	1-1/4 SIDE X 1-1/2 SIDE (BSPP)	WW	1	592-00739-23-23	MOTOR 1-1/4 SF X 1-1/4 SF OS
OC	1	592-00640-15-3	1-1/4 REAR X 1-1/2 SIDE (BSPP)	XX	1	592-00739-24-24	MOTOR 1-1/2 SF X 1-1/2 SF OS
OI	1	592-00640-15-9	1-1/2 SIDE X BLANK (SF)	YY	1	592-00739-38-38	MOTOR 1 JIC X 1 JIC OB
PA	1	592-00640-16-1	3/4 SIDE X 1/2 SIDE (SF)				
PB	1	592-00640-16-2	1 SIDE X 1/2 SIDE (SF)				
PC	1	592-00640-16-3	1 SIDE X 3/4 SIDE (SF)				
PD	1	592-00640-16-4	1-1/4 SIDE X 3/4 SIDE (SF)				
PE	1	592-00640-16-5	1-1/4 SIDE X 1 SIDE (SF)				

**PORT END COVER**

**(MOTOR CODES)**

PERMCO MODEL: 257

PORT END COVER SMALL PARTS

<u>CODE</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>D E S C R I P T I O N</u>
	2	921-00647-P	257 BUSHING
	1	Z-1967-45-2	PERMCO NAME TAG

**PERMCO MODEL: 257****Housings**

<u>CODE</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>D E S C R I P T I O N</u>
ZA05	1	577-00560-05	257 GEAR HOUSING FOR 1/2 GEAR
ZA07	1	577-00560-07	257 GEAR HOUSING FOR 3/4 GEAR
ZA10	1	577-00560-10	257 GEAR HOUSING FOR 1 GEAR
ZA12	1	577-00560-12	257 GEAR HOUSING FOR 1-1/4 GEAR
ZA15	1	577-00560-15	257 GEAR HOUSING FOR 1-1/2 GEAR
ZA17	1	577-00560-17	257 GEAR HOUSING FOR 1-3/4 GEAR
ZA20	1	577-00560-20	257 GEAR HOUSING FOR 2 GEAR
ZA22	1	577-00560-22	257 GEAR HOUSING FOR 2-1/4 GEAR
ZA25	1	577-00560-25	257 GEAR HOUSING FOR 2-1/2 GEAR

**PERMCO MODEL: 257 HOUSING SMALL PARTS (Pumps)**

<u>CODE</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>D E S C R I P T I O N</u>
	4	280-1971-034	257 SERIES DOWEL PIN
	2	947-00811	257 UNI-ROTATIONAL TP
	2	947-00812	257 PUMP SEAL RING
	2	947-00813	257 PUMP BACK-UP RING
	2	TA-2995-246	257 SERIES SQUARE GASKET

**HOUSING SMALL PARTS (Motors)**

MOTOR	2	280-1074-968	257 (MOTOR) THRUST PLATE
MOTOR	4	280-1774-073	257 (MOTOR) SIDE SEAL
MOTOR	4	280-1774-074	257 (MOTOR) END SEAL
MOTOR	2	280-1774-075	257 (MOTOR) BACKUP SEAL
MOTOR	4	280-1971-034	257 SERIES DOWEL PIN
MOTOR	2	TA-2995-246	257 SERIES SQUARE GASKET

PERMCO MODEL: 257

Gear and Shaft Combinations

<u>CODE</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>D E S C R I P T I O N</u>
05	1	996-00840-05	257 1/2 GEAR SET
07	1	996-00840-07	257 3/4 GEAR SET
10	1	996-00840-10	257 1 GEAR SET
12	1	996-00840-12	257 1-1/4 GEAR SET
15	1	996-00840-15	257 1-1/2 GEAR SET
17	1	996-00840-17	257 1-3/4 GEAR SET
20	1	996-00840-20	257 2 GEAR SET
22	1	996-00840-22	257 2-1/4 GEAR SET
25	1	996-00840-25	257 2-1/2 GEAR SET

## PERMCO MODEL: 257

## DRIVE SHAFTS OR GEAR/SHAFTS

<u>CODE</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>D E S C R I P T I O N</u>
00	1	024-00842-10	257 G/SH SET 1 SAE C-KEYED
00	1	024-00842-12	257 G/SH SET 1-1/4 SAE C-KEYED
00	1	024-00842-15	257 G/SH SET 1-1/2 SAE C-KEYED
00	1	024-00842-17	257 G/SH SET 1-3/4 SAE C-KEYED
00	1	024-00842-20	257 G/SH SET 2 SAE C-KEYED
00	1	024-00842-22	257 G/SH SET 2-1/4 C-KEYED
00	1	024-00842-25	257 G/SH ST 2-1/2 C-KEYED
14	1	024-00844-10	257 G/SH SET 1 SAE B-SPLN
14	1	024-00844-12	257 G/SH SET 1-1/4 SAE B-SPLN
14	1	024-00844-15	257 G/SH SET 1-1/2 SAE B-SPLN
14	1	024-00844-17	257 G/SH SET 1-3/4 SAE B-SPLN
14	1	024-00844-20	257 G/SH SET 2 SAE B-SPLN
14	1	024-00844-22	257 G/SH SET 2-1/4 SAE B-SPLN
14	1	024-00844-25	257 G/SH SET 2-1/2 SAE-B SPLN
6	1	024-00841-07	257 G/SH SET 3/4 SAE C-SPLN
6	1	024-00841-10	257 G/SH SET 1 SAE C-SPLN
6	1	024-00841-12	257 G/SH SET 1-1/4 SAE C-SPLN
6	1	024-00841-15	257 G/SH SET SAE C-SPLN
6	1	024-00841-17	257 G/SH SET 1-3/4 SAE C-SPLN
6	1	024-00841-20	257 G/SH SET 2 SAE C-SPLN
6	1	024-00841-22	257 G/SH SET 2-1/4 SAE C-SPLN
6	1	024-00841-25	257 G/SH SET 2-1/2 SAE C-SPLN
87	1	024-00846-07	257 G/SH SET 2 SAE BB SPLN
87	*	024-00846-20	257 G/SH SET 2 SAE BB SPLN OBSOLETE
87	1	024-00846-22	257 G/S SET 2-1/4 SAE BB SPLN
87	1	024-00846-25	257 G/SH SET 2-1/2 SAE BB SPLN
C 2	1	212-0999-001	257 SHAFT 6 TOOTH SPLINE 1.109 DIA
C 6	1	024-00849	257 1-1/4 DIA 14TOOTH
C00	1	024-00848	257 1-1/4 DIA KEYED SHAFT
C14	1	024-00851	257 7/8 DIA 13TOOTH
C32	1	024-00850	257 1 DIA KEYED SHAFT
C38	1	023-01400	257 1.1 DIA 17 TOOTH SHAFT
C62	1	212-0499-502	257 1-1/4" DIA KEYED 3"EXT.
C87	1	024-00923	257 1 DIA 15 TOOTH

## PERMCO MODEL: 257

## DRIVE SHAFT SMALL PARTS

<u>CODE</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>D E S C R I P T I O N</u>
00	1	SP-1000-5	SHAFT PROTECTOR 1-1/4 DIA
00	1	W09-27	5/16 X 15/32 X 1-1/2 KEY
14	1	SP-1000-8	SHAFT PROTECTOR 7/8 DIA
6	1	SP-1000-4	SHAFT PROTECTOR 1-1/4 DIA
87	1	SP-1000-3	SHAFT PROTECTOR 1 DIA
C2	1	558-01017	BEARING SPACER
C2	1	565-01016	SPIROL RETAINING RING
C2	1	226-01015	PUMP SEAL, 1-1/4 SHAFT
C2	1	280-1772-186	MOTOR SEAL, 1-1/4 SHAFT
C2	1	ZB-0558	5000 SPACER
C2	1	W023-283	SNAP RING
C2	1	W58-47	BALL BEARING
C 6	1	SP-1000-4	SHAFT PROTECTOR 1-1/4 DIA
C00	1	SP-1000-5	SHAFT PROTECTOR 1-1/4 DIA
C00	1	W09-27	5/16 X 15/32 X 1-1/2 KEY
C14	1	SP-1000-8	SHAFT PROTECTOR 7/8 DIA
C32	1	SP-1000-3	SHAFT PROTECTOR 1 DIA
C32	1	W09-02	1/4 X 3/8 X 1-1/4 KEY
C38	1	SP-1000-3	SHAFT PROTECTOR 1 DIA
C62	1	558-01017	BEARING SPACER
C62	1	565-01016	SPIROL RETAINING RING
C62	1	226-01015	PUMP SEAL, 1-1/4 SHAFT
C62	1	280-1772-186	MOTOR SEAL, 1-1/4 SHAFT
C62	1	ZB-0558	5000 SPACER
C62	1	W09-44	5/16 X 15/32 X 2-1/4 KEY
C62	1	W023-283	SNAP RING
C62	1	W58-47	BALL BEARING
C87	1	SP-1000-3	SHAFT PROTECTOR 1 DIA

**257 SERIES  
BEARING CARRIER CODES  
SINGLE IN, DUAL OUT  
Part # 576-00650**

In the belly down position, determine pump rotation from shaft end. **Clockwise rotation will put the inlet on the left side and the top outlet port will be for the front gear section. Counter-clockwise rotation will put the inlet on the right side and the top outlet will be for the rear gear section.**

Select inlet port size. Find the appropriate letter that meets the port size and the rotation requirements.

Select outlet port requirements. Top outlet refers to the front gear section for clockwise rotation and rear gear section for counter-clockwise rotation. Bottom outlet refers to the rear gear section for clockwise rotation and front gear section for counter-clockwise rotation.

Combine the inlet port designation with the outlet port designation to arrive at the bearing carrier code.

**EXAMPLE**

Rotation: Clockwise

Inlet Porting: 1-1/4" Split Flange inlet

Designator: C

Outlet Porting: 1" Split Flange Top (front)  
3/4" Split Flange Bottom (rear)

Designator: AB

Complete Bearing Carrier Code: CAB

**Split Flange**

**Porting Codes**

Inlet Port	Rotation	
	CW	CCW
1	A	B
1-1/4	C	D
1-1/2	E	F
2	G	H
2-1/2	Y	Z

**BSPP**

**Porting Codes**

Inlet Port	Rotation	
	CW	CCW
1	I	J
1-1/4	K	L
1-1/2	M	N

**Straight Threads (JIC)**

**Porting Codes**

Inlet Port	Rotation	
	CW	CCW
1	Q	R
1-1/4	S	T
1-1/2	U	V
2	W	X

Bottom Outlets	Top Outlets		
	3/4	1	1-1/4
3/4	AA	AB	AC
1	BA	BB	BC
1-1/4	CA	CB	CC

Bottom Outlets	Top Outlets		
	3/4	1	1-1/4
3/4	DA	DB	DC
1	EA	EB	EC
1-1/4	FA	FB	FC

Bottom Outlets	Top Outlets			
	1/2	3/4	1	1-1/4
1/2	HA	HB	HC	HD
3/4	JA	JB	JC	JD
1	KA	KB	KC	KD
1-1/4	LA	LB	LC	LD

**257 SERIES  
BEARING CARRIER CODES  
SINGLE IN, SINGLE OUT  
Part # 576-00763**

**EXAMPLE**

Rotation: Clockwise  
Inlet Porting: 1-1/4" Split Flange inlet  
Designator: C  
Outlet Porting: 1" Split Flange - Front  
Designator: BX  
Complete Bearing Carrier Code: CBX

**Split Flange**

**Porting Codes**

Inlet Port	Rotation	
	CW	CCW
1	A	B
1-1/4	C	D
1-1/2	E	F
2	G	H
2-1/2	Y	Z

**BSPP**

**Porting Codes**

Inlet Port	Rotation	
	CW	CCW
1	I	J
1-1/4	K	L
1-1/2	M	N

**Straight Threads (JIC)**

**Porting Codes**

Inlet Port	Rotation	
	CW	CCW
1	Q	R
1-1/4	S	T
1-1/2	U	V
2	W	X

Outlet Ports	Port	Port	Common
Size	To Front	To Rear	Outlet
3/4	AX	XA	MA
1	BX	XB	MB
1-1/4	CX	XC	MC
1-1/2	DX	XD	MD
2	EX	XE	ME
2-1/2	FX	XF	MF

Outlet Ports	Port	Port	Common
Size	To Front	To Rear	Outlet
3/4	GX	XG	MG
1	HX	XH	MH
1-1/4	IX	XI	MI
1-1/2	JX	XJ	MJ

Outlet Ports	Port	Port	Common
Size	To Front	To Rear	Outlet
1/2	LX	XL	ML
3/4	MX	XM	MM
1	NX	XN	MN
1-1/4	QX	XQ	MQ
1-1/2	RX	XR	MR
2	SX	XS	MS

## PERMCO MODEL: 257

## Bearing Carriers

CODE	QTY	PART NUMBER	D E S C R I P T I O N	CODE	QTY	PART NUMBER	D E S C R I P T I O N
AAA	1	576-00650-1-11	1 X 3/4TP&3/4BP(SF)CW	CCC	1	576-00650-3-33	1-1/4X1-1/4TP 1-1/4BP(SF)CW
AAB	1	576-00650-1-12	1 X 1TP&3/4BP(SF)CW	CXC	1	576-00763-9	1-1/4T-L X 1-1/4F-R (SF)CW
AAC	1	576-00650-1-13	1 X 1-1/4TP&3/4BP(SF)CW	CMA	1	576-00763-6	1-1/4T-L X 3/4T-R (SF)CW
AAX	1	576-00763-1	1THRU-L X3/4F-R(SF)CW	CMB	1	576-00763-8	1-1/4T-L X 1T-R (SF)CW
ABA	1	576-00650-1-21	1X3/4TP 1BP(SF)CW	CMC	1	576-00763-10	1-1/4T-L X 1-1/4T-R(SF)CW
ABB	1	576-00650-1-22	1 X 1TP&1BP(SF)CW	CXA	1	576-00763-5	1-1/4T-L X 3/4B-R (SF)CW
ABC	1	576-00650-1-23	1 X 1-1/4TP&1BP(SF)CW	CXB	1	576-00763-7	1-1/4T-L X 1B-R (SF)CW
ABX	1	576-00763-3	1T-L X 1F-R (SF)CW	CXC	1	576-00763-9	1-1/4T-L X 1-1/4B-R(SF)CW
ACA	1	576-00650-1-31	1 X 3/4TP&1-1/4BP(SF)CW	DAA	1	576-00650-4-11	1-1/4 X 3/4TP&3/4BP(SF)CCW
ACB	1	576-00650-1-32	1 X 1TP&1-1/4BP(SF)CW	DAB	1	576-00650-4-12	1-1/4 X 1TP&3/4BP(SF)CCW
ACC	1	576-00650-1-33	1 X 1-1/4TP&1-1/4BP(SF)CW	DAC	1	576-00650-4-13	1-1/4 X 1-1/4TP&3/4BP(SF)CCW
AMA	1	576-00763-2	3/4T-L X 1T-R (SF)CW	DAX	1	576-00763-5	3/4F-L X 1-1/4T-R(SF)CCW
AMB	1	576-00763-4	1T-L X 1T-R (SF)CW	DBA	1	576-00650-4-21	1-1/4 X 3/4TP&1BP(SF)CCW
AXA	1	576-00763-1	1T-L X 3/4B-R (SF)CW	DBB	1	576-00650-4-22	1-1/4 X 1TP&1BP(SF)CCW
AXB	1	576-00763-3	1T-L X 1B-R (SF)CW	DBC	1	576-00650-4-23	1-1/4 X 1-1/4TP&1BP(SF)CCW
BAA	1	576-00650-2-11	1 X 3/4TP&3/4BP(SF)CCW	DBX	1	576-00763-7	1F-L X 1-1/4T-R(SF)CCW
BAB	1	576-00650-2-12	1 X 1TP&3/4BP(SF)CCW	DCA	1	576-00650-4-31	1-1/4 X 3/4TP&1-1/4BP(SF)CCW
BAC	1	576-00650-2-13	1 X 1-1/4TP&3/4BP(SF)CCW	DCB	1	576-00650-4-32	1-1/4 X 1TP&1-1/4BP(SF)CCW
BAX	1	576-00763-1	3/4F-L X 1T-R (SF)CCW	DCC	1	576-00650-4-33	1-1/4 X 1-1/4TP&1-1/4BP(SF)CCW
BBA	1	576-00650-2-21	1 X 3/4TP&1BP(SF)CCW	DCX	1	576-00763-9	1-1/4F-L X 1-1/4T-R(SF)CCW
BBB	1	576-00650-2-22	1 X 1TP&1BP(SF)CCW	DMA	1	576-00763-6	3/4T-L X 1-1/4T-R(SF)CCW
BBC	1	576-00650-2-23	1 X 1-1/4TP&1BP(SF)CCW	DMB	1	576-00763-8	1T-L X 1-1/4T-R(SF)CCW
BBX	1	576-00763-3	1F-L X 1T-R (SF)CCW	DMC	1	576-00763-10	1-1/4T-L X 1-1/4T-R(SF)CCW
BCA	1	576-00650-2-31	1 X 3/4TP&1-1/4BP(SF)CCW	DXA	1	576-00763-5	3/4B-L X 1-1/4T-R(SF)CCW
BCB	1	576-00650-2-32	1 X 1TP&1-1/4BP(SF)CCW	DXB	1	576-00763-7	1B-L X 1-1/4T-R(SF)CCW
BCC	1	576-00650-2-33	1 X 1-1/4TP&1-1/4BP(SF)CCW	DXC	1	576-00763-9	1-1/4B-L X 1-1/4T-R(SF)CCW
BMA	1	576-00763-2	3/4T-L X 1T-R (SF)CCW	EAA	1	576-00650-5-11	1-1/2 X 3/4TP&3/4BP(SF)CW
BMB	1	576-00763-4	1T-L X 1T-R (SF)CCW	EAB	1	576-00650-5-12	1-1/2 X 1TP&3/4BP(SF)CW
BXA	1	576-00763-1	3/4B-L X 1T-R (SF)CCW	EAC	1	576-00650-5-13	1-1/2 X 1-1/4TP&3/4BP(SF)CW
BXB	1	576-00763-3	1B-L X 1T-R (SF)CCW	EAX	1	576-00763-11	1-1/2T-L X 3/4F-R(SF)CW
CAA	1	576-00650-3-11	1-1/4 X 3/4TP&3/4BP(SF)CW	EBA	1	576-00650-5-21	1-1/2 X 3/4TP&1BP(SF)CW
CAB	1	576-00650-3-12	1-1/4 X 1TP&3/4BP(SF)CW	EBB	1	576-00650-5-22	1-1/2 X 1TP&1BP(SF)CW
CAC	1	576-00650-3-13	1-1/4 X 1-1/4TP&3/4BP(SF)CW	EBC	1	576-00650-5-23	1-1/2 X 1-1/4TP&1BP(SF)CW
CAX	1	576-00763-5	1-1/4T-L X 3/4F-R (SF)CW	EBX	1	576-00763-13	1-1/2T-L X 1F-R(SF)CW
CBA	1	576-00650-3-21	1-1/4 X 3/4TP&1BP(SF)CW	ECA	1	576-00650-5-31	1-1/2 X 3/4TP&1-1/4BP(SF)CW
CBB	1	576-00650-3-22	1-1/4 X 1TP&1BP(SF)CW	ECB	1	576-00650-5-32	1-1/2 X 1TP&1-1/4BP(SF)CW
CBC	1	576-00650-3-23	1-1/4 X 1-1/4TP&1BP(SF)CW	ECC	1	576-00650-5-33	1-1/2 X 1-1/4TP&1-1/4BP(SF)CW
CBX	1	576-00763-7	1-1/4T-L X 1F-R (SF)CW	ECX	1	576-00763-15	1-1/2T-L X 1-1/4F-R(SF)CW
CCA	1	576-00650-3-31	1-1/4 X 3/4TP&1-1/4BP(SF)CW	EDX	1	576-00763-17	1-1/2T-L X 1-1/2F-R(SF)CW
CCB	1	576-00650-3-32	1-1/4 X 1TP&1-1/4BP(SF)CW	EMA	1	576-00763-12	1-1/2T-L X 3/4T-R(SF)CW

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CODE	QTY	PART NUMBER	D E S C R I P T I O N	CODE	QTY	PART NUMBER	D E S C R I P T I O N
EMB	1	576-00763-14	1-1/2T-L X 1T-R(SF)CW	GDX	1	576-00763-25	2T-L X 1-1/2F-R(SF)CW
EMC	1	576-00763-16	1-1/2T-L X 1-1/4T-R (SF)CW	GEX	1	576-00763-27	2T-L X 2F-R(SF)CW
EMD	1	576-00763-18	1-1/2T-L X 1-1/2T-R(SF)CW	GMA	1	576-00763-20	2T-L X 3/4T-R(SF)CW
EXA	1	576-00763-11	1-1/2T-L X 3/4B-R(SF)CW	GMB	1	576-00763-22	2T-L X 1T-R(SF)CW
EXB	1	576-00763-13	1-1/2T-L X 1B-R(SF)CW	GMC	1	576-00763-24	2T-L X 1-1/4T-R(SF)CW
EXC	1	576-00763-15	1-1/2T-L X 1-1/4B-R(SF)CW	GMD	1	576-00763-26	2T-L X 1-1/2T-R(SF)CW
EXD	1	576-00763-17	1-1/2T-L X 1-1/2B-R(SF)CW	GME	1	576-00763-28	2T-L X 2T-R(SF)CW
FAA	1	576-00650-6-11	1-1/2 X 3/4TP&3/4BP(SF)CCW	GXA	1	576-00763-19	2T-L X 3/4B-R(SF)CW
FAB	1	576-00650-6-12	1-1/2 X 1TP&3/4BP(SF)CCW	GXB	1	576-00763-21	2T-L X 1B-R(SF)CW
FAC	1	576-00650-6-13	1-1/2 X 1-1/4TP&3/4BP(SF)CCW	GXC	1	576-00763-23	2T-L X 1-1/4B-R(SF)CW
FAX	1	576-00763-11	3/4F-L X 1-1/2T-R(SF)CCW	GXD	1	576-00763-25	2T-L X 1-1/2B-R(SF)CW
FBA	1	576-00650-6-21	1-1/2 X 3/4TP&1BP(SF)CCW	GXE	1	576-00763-27	2T-L X 2B-R(SF)CW
FBB	1	576-00650-6-22	1-1/2 X 1TP&1BP(SF)CCW	HAA	1	576-00650-8-11	2 X 3/4TP&3/4BP(SF)CCW
FBC	1	576-00650-6-23	1-1/2 X 1-1/4TP&1BP(SF)CCW	HAB	1	576-00650-8-12	2 X 1TP&3/4BP(SF)CCW
FBX	1	576-00763-13	1F-L X 1-1/2T-R(SF)CCW	HAC	1	576-00650-8-13	2 X 1-1/4TP&3/4BP(SF)CCW
FCA	1	576-00650-6-31	1-1/2 X 3/4TP&1-1/4BP(SF)CCW	HAX	1	576-00763-19	3/4F-L X 2T-R(SF)CCW
FCB	1	576-00650-6-32	1-1/2 X 1TP&1-1/4BP(SF)CCW	HBA	1	576-00650-8-21	2 X 3/4TP&1BP(SF)CCW
FCC	1	576-00650-6-33	1-1/2 X 1-1/4TP&1-1/4BP(SF)CCW	HBB	1	576-00650-8-22	2X1TP 1BP(SF)CCW
FCX	1	576-00763-15	1-1/4F-L X 1-1/2T-R(SF)CCW	HBC	1	576-00650-8-23	2 X 1-1/4TP&1BP(SF)CCW
FDX	1	576-00763-17	1-1/2F-L X 1-1/2T-R(SF)CCW	HBX	1	576-00763-21	1F-L X 2T-R(SF)CCW
FMA	1	576-00763-12	3/4T-L X 1-1/2T-R(SF)CCW	HCA	1	576-00650-8-31	2 X 3/4TP&1-1/4BP(SF)CCW
FMB	1	576-00763-14	1T-L X 1-1/2T-R(SF)CCW	HCB	1	576-00650-8-32	2 X 1TP&1-1/4BP(SF)CCW
FMC	1	576-00763-16	1-1/4T-L X 1-1/2T-R(SF)CCW	HCC	1	576-00650-8-33	2 X 1-1/4TP&1-1/4BP(SF)CCW
FMD	1	576-00763-18	1-1/2T-L X 1-1/2T-R(SF)CCW	HCX	1	576-00763-23	1-1/4F-L X 2T-R(SF)CCW
FXA	1	576-00763-11	3/4B-L X 1-1/2T-R(SF)CCW	HDX	1	576-00763-25	1-1/2F-L X 2T-R(SF)CCW
FXB	1	576-00763-13	1B-L X 1-1/2T-R(SF)CCW	HEX	1	576-00763-27	2F-L X 2T-R(SF)CCW
FXC	1	576-00763-15	1-1/4B-T X 1-1/2T-R(SF)CCW	HMA	1	576-00763-20	3/4T-L X 2T-R(SF)CCW
FXD	1	576-00763-17	1-1/2B-L X 1-1/2T-R(SF)CCW	HMB	1	576-00763-22	1T-L X 1T-R(SF)CCW
GAA	1	576-00650-7-11	2 X 3/4TP&3/4BP(SF)CW	HMC	1	576-00763-24	1-1/4T-L X 2T-R(SF)CCW
GAB	1	576-00650-7-12	2 X 1TP&3/4BP(SF)CW	HMD	1	576-00763-26	1-1/2T-L X 2T-R(SF)CCW
GAC	1	576-00650-7-13	2 X 1-1/4TP&3/4BP(SF)CW	HME	1	576-00763-28	2T-L X 2T-R(SF)CCW
GAX	1	576-00763-19	2T-L X 3/4F-R(SF)CW	HXA	1	576-00763-19	3/4B-L X 2T-R(SF)CCW
GBA	1	576-00650-7-21	2 X 3/4TP&1BP(SF)CW	HXB	1	576-00763-21	1B-L X 2T-R(SF)CCW
GBB	1	576-00650-7-22	2 X 1TP&1BP(SF)CW	HXC	1	576-00763-23	1-1/4B-L X 2T-R(SF)CCW
GBC	1	576-00650-7-23	2 X 1-1/4TP&1BP(SF)CW	HXD	1	576-00763-25	1-1/2B-L X 2T-R(SF)CCW
GBX	1	576-00763-21	2T-L X 1F-R(SF)CW	HXE	1	576-00763-27	2B-L X 2T-R(SF)CCW
GCA	1	576-00650-7-31	2 X 3/4TP&1-1/4BP(SF)CW	IDA	1	576-00650-9-41	1 X 3/4TP&3/4BP(BSPP)CW
GCB	1	576-00650-7-32	2 X 1TP&1-1/4BP(SF)CW	IDB	1	576-00650-9-42	1 X 1TP&3/4BP(BSPP)CW
GCC	1	576-00650-7-33	2 X 1-1/4TP&1-1/4BP(SF)CW	IDC	1	576-00650-9-43	1 X 1-1/4TP&3/4BP(BSPP)CW
GCX	1	576-00763-23	2T-L X 1-1/4F-R(SF)CW	IEA	1	576-00650-9-51	1 X 3/4TP&1BP(BSPP)CW

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CODE	QTY	PART NUMBER	D E S C R I P T I O N	CODE	QTY	PART NUMBER	D E S C R I P T I O N
IEB	1	576-00650-9-52	1 X 1TP&1BP(BSPP)CW	KMI	1	576-00763-50	1-1/4T-L X 1-1/4T-R(BSPP)CW
IEC	1	576-00650-9-53	1 X 1-1/4TP&1BP(BSPP)CW	KXG	1	576-00763-45	1-1/4T-L X 3/4B-R(BSPP)CW
IFA	1	576-00650-9-61	1 X 3/4TP&1-1/4BP(BSPP)CW	KXH	1	576-00763-47	1-1/4T-L X 1B-R(BSPP)CW
IFB	1	576-00650-9-62	1 X 1TP&1-1/4BP(BSPP)CW	KXI	1	576-00763-49	1-1/4T-L X 1-1/4B-R(BSPP)CW
IFC	1	576-00650-9-63	1 X 1-1/4TP&1-1/4BP(BSPP)CW	LDA	1	576-00650-12-41	1-1/4 X 3/4TP&3/4BP(BSPP)CCW
IGX	1	576-00763-41	1T-L X 3/4F-R(BSPP)CW	LDB	1	576-00650-12-42	1-1/4 X 1TP&3/4BP(BSPP)CCW
IHX	1	576-00763-43	1T-L X 1F-R(BSPP)CW	LDC	1	576-00650-12-43	1-1/4 X 1-1/4TP&3/4BP(BSPP)CCW
IMG	1	576-00763-42	1T-L X 3/4T-R(BSPP)CW	LEA	1	576-00650-12-51	1-1/4 X 3/4TP&1BP(BSPP)CCW
IMH	1	576-00763-44	1T-L X 1T-R(BSPP)CW	LEB	1	576-00650-12-52	1-1/4 X 1TP&1BP(BSPP)CCW
IXG	1	576-00763-41	1T-L X 3/4B-R(BSPP)CW	LEC	1	576-00650-12-53	1-1/4 X 1-1/4TP&1BP(BSPP)CCW
IXH	1	576-00763-43	1T-L X 1B-R(BSPP)CW	LFA	1	576-00650-12-61	1-1/4 X 3/4TP&1-1/4BP(BSPP)CCW
JDA	1	576-00650-10-41	1 X 3/4TP&3/4BP(BSPP)CCW	LFB	1	576-00650-12-62	1-1/4 X 1TP&1-1/4BP(BSPP)CCW
JDB	1	576-00650-10-42	1 X 1TP&3/4BP(BSPP)CCW	LFC	1	576-00650-12-63	1-1/4 X 1-1/4TP&1-1/4BP(BSPP)CCW
JDC	1	576-00650-10-43	1 X 1-1/4TP&3/4BP(BSPP)CCW	LGX	1	576-00763-45	3/4F-L X 1-1/4T-R(BSPP)CCW
JEA	1	576-00650-10-51	1 X 3/4TP&1BP(BSPP)CCW	LHX	1	576-00763-47	1F-L X 1-1/4T-R(BSPP)CCW
JEB	1	576-00650-10-52	1 X 1TP&1BP(BSPP)CCW	LIX	1	576-00763-49	1-1/4F-L X 1-1/4T-R(BSPP)CCW
JEC	1	576-00650-10-53	1 X 1-1/4TP&1BP(BSPP)CCW	LMG	1	576-00763-46	3/4T-L X 1-1/4T-R(BSPP)CCW
JFA	1	576-00650-10-61	1 X 3/4TP&1-1/4BP(BSPP)CCW	LMH	1	576-00763-48	1T-L X 1-1/4T-R(BSPP)CCW
JFB	1	576-00650-10-62	1 X 1TP&1-1/4BP(BSPP)CCW	LMI	1	576-00763-50	1-1/4T-L X 1-1/4T-R(BSPP)CCW
JFC	1	576-00650-10-63	1 X 1-1/4TP&1-1/4BP(BSPP)CCW	LXG	1	576-00763-45	3/4B-L X 1-1/4T-R(BSPP)CCW
JGX	1	576-00763-41	3/4F-L X 1T-R(BSPP)CCW	LXH	1	576-00763-47	1B-L X 1-1/4T-R(BSPP)CCW
JHX	1	576-00763-43	1F-L X 1T-R(BSPP)CCW	LXI	1	576-00763-49	1-1/4B-L X 1-1/4T-R(BSPP)CCW
JMG	1	576-00763-42	3/4T-L X 1T-R(BSPP)CCW	MDA	1	576-00650-13-41	1-1/2 X 3/4TP&3/4BP(BSPP)CW
JMH	1	576-00763-44	1T-L X 1T-R(BSPP)CCW	MDB	1	576-00650-13-42	1-1/2 X 1TP&3/4BP(BSPP)CW
JXG	1	576-00763-41	3/4B-L X 1T-R(BSPP)CCW	MDC	1	576-00650-13-43	1-1/2 X 1-1/4TP&3/4BP(BSPP)CW
JXH	1	576-00763-43	1B-L X 1T-R(BSPP)CCW	MEA	1	576-00650-13-51	1-1/2 X 3/4TP&1BP(BSPP)CW
KDA	1	576-00650-11-41	1-1/4 X 3/4TP&3/4BP(BSPP)CW	MEB	1	576-00650-13-52	1-1/2 X 1TP&1BP(BSPP)CW
KDB	1	576-00650-11-42	1-1/4 X 1TP&3/4BP(BSPP)CW	MEC	1	567-00650-13-53	1-1/2 X 1-1/4TP&1BP(BSPP)CW
KDC	1	576-00650-11-43	1-1/4 X 1-1/4TP&3/4BP(BSPP)CW	MFA	1	576-00650-13-61	1-1/2 X 3/4TP&1-1/4BP(BSPP)CW
KEA	1	576-00650-11-51	1-1/4 X 3/4TP&1BP(BSPP)CW	MFB	1	576-00650-13-62	1-1/2 X 1TP&1-1/4BP(BSPP)CW
KEB	1	576-00650-11-52	1-1/4 X 1TP&1BP(BSPP)CW	MFC	1	576-00650-13-63	1-1/2 X 1-1/4TP&1-1/4BP(BSPP)CW
KEC	1	576-00650-11-53	1-1/4 X 1-1/4TP&1BP(BSPP)CW	MGX	1	576-00763-51	1-1/2T-L X 3/4F-R(BSPP)CW
KFA	1	576-00650-11-61	1-1/4 X 3/4TP&1-1/4BP(BSPP)CW	MHX	1	576-00763-53	1-1/2T-L X 1F-R(BSPP)CW
KFB	1	576-00650-11-62	1-1/4 X 1TP&1-1/4BP(BSPP)CW	MIX	1	576-00763-55	1-1/2T-L X 1-1/4F-R(BSPP)CW
KFC	1	576-00650-11-63	1-1/4 X 1-1/4TP&1-1/4BP(BSPP)CW	MJX	1	576-00763-57	1-1/2T-L X 1-1/2F-R(BSPP)CW
KGX	1	576-00763-45	1-1/4T-L X 3/4F-R(BSPP)CW	MMG	1	576-00763-52	1-1/2T-L X 3/4T-R(BSPP)CW
KHX	1	576-00763-47	1-1/4T-L X 1F-R(BSPP)CW	MMH	1	576-00763-54	1-1/2T-L X 1T-R(BSPP)CW
KIX	1	576-00763-49	1-1/4T-L X 1-1/4F-R(BSPP)CW	MMI	1	576-00763-56	1-1/2T-L X 1-1/4T-R(BSPP)CW
KMG	1	576-00763-46	1-1/4T-L X 3/4T-R(BSPP)CW	MMJ	1	576-00763-58	1-1/2T-L X 1-1/2T-R(BSPP)CW
KMH	1	576-00763-48	1-1/4T-L X 1T-R(BSPP)CW	MXG	1	576-00763-51	1-1/2T-L X 3/4B-R(BSPP)CW

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CODE	QTY	PART NUMBER	D E S C R I P T I O N	CODE	QTY	PART NUMBER	D E S C R I P T I O N
MXH	1	576-00763-53	1-1/2T-L X 1B-R(BSPP)CW	QLX	1	576-00763-59	1T-L X 1/2F-R(JIC)CW
MXI	1	576-00763-55	1-1/2T-L X 1-1/4B-R(BSPP)CW	QML	1	576-00763-60	1T-L X 1/2T-R(JIC)CW
MXJ	1	576-00763-57	1-1/2T-L X 1-1/2B-R(BSPP)CW	QMM	1	576-00763-62	1T-L X 3/4T-R(JIC)CW
NDA	1	576-00650-14-41	1-1/2 X 3/4TP&3/4BP(BSPP)CCW	QMN	1	576-00763-64	1T-L X 1T-R(JIC)CW
NDB	1	576-00650-14-42	1-1/2 X 1TP&3/4BP(BSPP)CCW	QMX	1	576-00763-61	1T-L X 3/4F-R(JIC)CW
NDC	1	576-00650-14-43	1-1/2 X 1-1/4TP&3/4BP(BSPP)CCW	QNX	1	576-00763-63	1T-L X 1F-R(JIC)CW
NEA	1	576-00650-14-51	1-1/2 X 3/4TP&1BP(BSPP)CCW	QXL	1	576-00763-59	1T-L X 1/2B-R(JIC)CW
NEB	1	576-00650-14-52	1-1/2 X 1TP&1BP(BSPP)CCW	QXM	1	576-00763-61	1T-L X 3/4B-R(JIC)CW
NEC	1	576-00650-14-53	1-1/2 X 1-1/4TP&1BP(BSPP)CCW	QXN	1	576-00763-63	1T-L X 1B-R(JIC)CW
NFA	1	576-00650-14-61	1-1/2 X 3/4TP&1-1/4BP(BSPP)CCW	RHA	1	576-00650-18-81	1 X 1/2TP&1/2BP(JIC)CCW
NFB	1	576-00650-14-62	1-1/2 X 1TP&1-1/4BP(BSPP)CCW	RHB	1	576-00650-18-82	1 X 3/4TP&1/2BP(JIC)CCW
NFC	1	576-00650-14-63	1-1/2X1-1/4TP&1-1/4BP(BSPP)CCW	RHC	1	576-00650-18-83	1 X 1TP&1/2BP(JIC)CCW
NGX	1	576-00763-51	3/4F-L X 1-1/2T-R(BSPP)CCW	RHD	1	576-00650-18-84	1 X 1-1/4TP&1/2BP(JIC)CCW
NHX	1	576-00763-53	1F-L X 1-1/2T-R(BSPP)CCW	RJA	1	576-00650-18-101	1 X 1/2TP&3/4BP(JIC)CCW
NIX	1	576-00763-55	1-1/4F-L X 1-1/2T-R(BSPP)CCW	RJB	1	576-00650-18-102	1 X 3/4TP&3/4BP(JIC)CCW
NJX	1	576-00763-57	1-1/2F-L X 1-1/2T-R(BSPP)CCW	RJC	1	576-00650-18-103	1 X 1TP&3/4BP(JIC)CCW
NMG	1	576-00763-52	3/4T-L X 1-1/2T-R(BSPP)CCW	RJD	1	576-00650-18-104	1 X 1-1/4TP&3/4BP(JIC)CCW
NMH	1	576-00763-54	1T-L X 1-1/2T-R(BSPP)CCW	RKA	1	576-00650-18-111	1 X 1/2TP&1BP(JIC)CCW
NMI	1	576-00763-56	1-1/4T-L X 1-1/2T-R(BSPP)CCW	RKB	1	576-00650-18-112	1 X 3/4TP&1BP(JIC)CCW
NMJ	1	576-00763-58	1-1/2T-L X 1-1/2T-R(BSPP)CCW	RKC	1	576-00650-18-113	1 X 1TP&1BP(JIC)CCW
NXG	1	576-00763-51	3/4B-L X 1-1/2T-R(BSPP)CCW	RKD	1	576-00650-18-114	1 X 1-1/4TP&1BP(JIC)CCW
NXH	1	576-00763-53	1B-L X 1-1/2T-R(BSPP)CCW	RLA	1	576-00650-18-121	1 X 1/2TP&1-1/4BP(JIC)CCW
NXI	1	576-00763-55	1-1/4B-L X 1-1/2T-R(BSPP)CCW	RLB	1	576-00650-18-122	1 X 3/4TP&1-1/4BP(JIC)CCW
NXJ	1	576-00763-57	1-1/2B-L X 1-1/2T-R(BSPP)CCW	RLC	1	576-00650-18-123	1 X 1TP&1-1/4BP(JIC)CCW
QHA	1	576-00650-17-81	1 X 1/2TP&1/2BP(JIC)CW	RLD	1	576-00650-18-124	1 X 1-1/4TP&1-1/4BP(JIC)CCW
QHB	1	576-00650-17-82	1 X 3/4TP&1/2BP(JIC)CW	RLX	1	576-00763-59	1/2B-L X 1T-R(JIC)CCW
QHC	1	576-00650-17-83	1 X 1TP&1/2BP(JIC)CW	RML	1	576-00763-60	1/2T-L X 1T-R(JIC)CCW
QHD	1	576-00650-17-84	1 X 1-1/4TP&1/2BP(JIC)CW	RMM	1	576-00763-62	3/4T-L X 1T-R(JIC)CCW
QJA	1	576-00650-17-101	1 X 1/2TP&3/4BP(JIC)CW	RMN	1	576-00763-64	1T-L X 1T-R(JIC)CCW
QJB	1	576-00650-17-102	1X3/4TP 3/4BP(JIC)CW	RMX	1	576-00763-61	3/4F-L X 1T-R(JIC)CCW
QJC	1	576-00650-17-103	1 X 1TP&3/4BP(JIC)CW	RNX	1	576-00763-63	1F-L X 1T-R(JIC)CCW
QJD	1	576-00650-17-104	1 X 1-1/4TP&3/4BP(JIC)CW	RXL	1	576-00763-59	1/2B-L X 1T-R(JIC)CCW
QKA	1	576-00650-17-111	1 X 1/2TP&1BP(JIC)CW	RXM	1	576-00763-61	3/4B-L X 1T-R(JIC)CCW
QKB	1	576-00650-17-112	1 X 3/4TP&1BP(JIC)CW	RXN	1	576-00763-63	1B-L X 1T-R(JIC)CCW
QKC	1	576-00650-17-113	1X1TP 1BP(JIC)CW	SHA	1	576-00650-19-81	1-1/4 X 1/2TP&1/2BP(JIC)CW
QKD	1	576-00650-17-114	1 X 1-1/4TP&1BP(JIC)CW	SHB	1	576-00650-19-82	1-1/4 X 3/4TP&1/2BP(JIC)CW
QLA	1	576-00650-17-121	1 X 1/2TP&1-1/4BP(JIC)CW	SHC	1	576-00650-19-83	1-1/4 X 1TP&1/2BP(JIC)CW
QLB	1	576-00650-17-122	1 X 3/4TP&1-1/4BP(JIC)CW	SHD	1	576-00650-19-84	1-1/4 X 1-1/4TP&1/2BP(JIC)CW
QLC	1	576-00650-17-123	1 X 1TP&1-1/4BP(JIC)CW	SJA	1	576-00650-19-101	1-1/4 X 1/2TP&3/4BP(JIC)CW
QLD	1	576-00650-17-124	1 X 1-1/4TP&1-1/4BP(JIC)CW	SJB	1	576-00650-19-102	1-1/4 X 3/4TP&3/4BP(JIC)CW

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## Bearing Carriers

CODE	QTY	PART NUMBER	D E S C R I P T I O N	CODE	QTY	PART NUMBER	D E S C R I P T I O N
SJC	1	576-00650-19-103	1-1/4 X 1TP&3/4BP(JIC)CW	TMM	1	576-00763-68	3/4T-L X 1-1/4T-R(JIC)CCW
SJD	1	576-00650-19-104	1-1/4 X 1-1/4TP&3/4BP(JIC)CW	TMN	1	576-00763-70	1T-L X 1-1/4T-R(JIC)CCW
SKA	1	576-00650-19-111	1-1/4 X 1/2TP&1BP(JIC)CW	TMQ	1	576-00763-72	1-1/4T-L X 1-1/4T-R(JIC)CCW
SKB	1	576-00650-19-112	1-1/4 X 3/4TP&1BP(JIC)CW	TMX	1	576-00763-67	3/4F-L X 1-1/4T-R(JIC)CCW
SKC	1	576-00650-19-113	1-1/4 X 1TP&1BP(JIC)CW	TNX	1	576-00763-69	1F-L X 1-1/4T-R(JIC)CCW
SKD	1	576-00650-19-114	1-1/4 X 1-1/4TP&1BP(JIC)CW	TQX	1	576-00763-71	1-1/4F-L X 1-1/4T-R(JIC)CCW
SLA	1	576-00650-19-121	1-1/4 X 1/2TP&1-1/4BP(JIC)CW	TXL	1	576-00763-65	1/2B-L X 1-1/4T-R(JIC)CCW
SLB	1	576-00650-19-122	1-1/4 X 3/4TP&1-1/4BP(JIC)CW	TXM	1	576-00763-67	3/4B-L X 1-1/4T-R(JIC)CCW
SLC	1	576-00650-19-123	1-1/4 X 1TP&1-1/4BP(JIC)CW	TXN	1	576-00763-69	1B-L X 1-1/4T-R(JIC)CCW
SLD	1	576-00650-19-124	1-1/4 X 1-1/4TP&1-1/4BP(JIC)CW	TXQ	1	576-00763-71	1-1/4B-L X 1-1/4T-R(JIC)CCW
SLX	1	576-00763-65	1-1/4T-L X 1/2F-R(JIC)CW	UHA	1	576-00650-21-81	1-1/2 X 1/2TP&1/2BP(JIC)CW
SML	1	576-00763-66	1-1/4T-L X 1/2T-R(JIC)CW	UHB	1	576-00650-21-82	1-1/2 X 3/4TP&1/2BP(JIC)CW
SMM	1	576-00763-68	1-1/4T-L X 3/4T-R(JIC)CW	UHC	1	576-00650-21-83	1-1/2 X 1TP&1/2BP(JIC)CW
SMN	1	576-00763-70	1-1/4T-L X 1T-R(JIC)CW	UHD	1	576-00650-21-84	1-1/2 X 1-1/4TP&1/2BP(JIC)CW
SMQ	1	576-00763-72	1-1/4T-L X 1-1/4T-R(JIC)CW	UJA	1	576-00650-21-101	1-1/2 X 1/2TP&3/4BP(JIC)CW
SMX	1	576-00763-67	1-1/4T-L X 3/4F-R(JIC)CW	UJB	1	576-00650-21-102	1-1/2 X 3/4TP&3/4BP(JIC)CW
SNX	1	576-00763-69	1-1/4T-L X 1F-R(JIC)CW	UJC	1	576-00650-21-103	1-1/2 X 1TP&3/4BP(JIC)CW
SQX	1	576-00763-71	1-1/4T-L X 1-1/4F-R(JIC)CW	UJD	1	576-00650-21-104	1-1/2 X 1-1/4TP&3/4BP(JIC)CW
SXL	1	576-00763-65	1-1/4T-L X 1/2B-R(JIC)CW	UKA	1	576-00650-21-111	1-1/2 X 1/2TP&1BP(JIC)CW
SXM	1	576-00763-67	1-1/4T-L X 3/4B-R(JIC)CW	UKB	1	576-00650-21-112	1-1/2 X 3/4TP&1BP(JIC)CW
SXN	1	576-00763-69	1-1/4T-L X 1B-R(JIC)CW	UKC	1	576-00650-21-113	1-1/2 X 1TP&1BP(JIC)CW
SXQ	1	576-00763-71	1-1/4T-L X 1-1/4B-R(JIC)CW	UKD	1	576-00650-21-114	1-1/2 X 1-1/4TP&1BP(JIC)CW
THA	1	576-00650-20-81	1-1/4 X 1/2TP&1/2BP(JIC)CCW	ULA	1	576-00650-21-121	1-1/2 X 1/2TP&1-1/4BP(JIC)CW
THB	1	576-00650-20-82	1-1/4 X 3/4TP&1/2BP(JIC)CCW	ULB	1	576-00650-21-122	1-1/2 X 3/4TP&1-1/4BP(JIC)CW
THC	1	576-00650-20-83	1-1/4 X 1TP&1/2BP(JIC)CCW	ULC	1	576-00650-21-123	1-1/2 X 1TP&1-1/4BP(JIC)CW
THD	1	576-00650-20-84	1-1/4 X 1-1/4TP&1/2BP(JIC)CCW	ULD	1	576-00650-21-124	1-1/2 X 1-1/4TP&1-1/4BP(JIC)CW
TJA	1	576-00650-20-101	1-1/4 X 1/2TP&3/4BP(JIC)CCW	ULX	1	576-00763-73	1-1/2T-L X 1/2F-R(JIC)CW
TJB	1	576-00650-20-102	1-1/4 X 3/4TP&3/4BP(JIC)CCW	UML	1	576-00763-74	1-1/2T-L X 1/2T-R(JIC)CW
TJC	1	576-00650-20-103	1-1/4 X 1TP&3/4BP(JIC)CCW	UMM	1	576-00763-76	1-1/2T-L X 3/4T-R(JIC)CW
TJD	1	576-00650-20-104	1-1/4 X 1-1/4TP&3/4BP(JIC)CCW	UMN	1	576-00763-78	1-1/2T-L X 1T-R(JIC)CW
TKA	1	576-00650-20-111	1-1/4 X 1/2TP&1BP(JIC)CCW	UMQ	1	576-00763-80	1-1/2T-L X 1-1/4T-R(JIC)CW
TKB	1	576-00650-20-112	1-1/4 X 3/4TP&1BP(JIC)CCW	UMR	1	576-00763-82	1-1/2T-L X 1-1/2T-R(JIC)CW
TKC	1	576-00650-20-113	1-1/4 X 1TP&1BP(JIC)CCW	UMX	1	576-00763-75	1-1/2T-L X 3/4F-R(JIC)CW
TKD	1	576-00650-20-114	1-1/4 X 1-1/4TP&1BP(JIC)CCW	UNX	1	576-00763-77	1-1/2T-L X 1F-R(JIC)CW
TLA	1	576-00650-20-121	1-1/4 X 1/2TP&1-1/4BP(JIC)CCW	UQX	1	576-00763-79	1-1/2T-L X 1-1/4F-R(JIC)CW
TLB	1	576-00650-20-122	1-1/4 X 3/4TP&1-1/4BP(JIC)CCW	URX	1	576-00763-81	1-1/2T-L X 1-1/2F-R(JIC)CW
TLC	1	576-00650-20-123	1-1/4 X 1TP&1-1/4BP(JIC)CCW	UXL	1	576-00763-73	1-1/2T-L X 1/2B-R(JIC)CW
TLD	1	576-00650-20-124	1-1/4 X 1-1/4TP&1-1/4BP(JIC)CCW	UXM	1	576-00763-75	1-1/2T-L X 3/4B-R(JIC)CW
TLX	1	576-00763-65	1/2F-L X 1-1/4T-R(JIC)CCW	UXN	1	576-00763-77	1-1/2T-L X 1B-R(JIC)CW
TML	1	576-00763-66	1/2T-L X 1-1/4T-R(JIC)CCW	UXQ	1	576-00763-79	1-1/2T-L X 1-1/4B-R(JIC)CW

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## Bearing Carriers

CODE	QTY	PART NUMBER	D E S C R I P T I O N	CODE	QTY	PART NUMBER	D E S C R I P T I O N
UXR	1	576-00763-81	1-1/2T-L X 1-1/2B-R(JIC)CW	WKA	1	576-00650-23-111	2 X 1/2TP&1BP (JIC) CW
VHA	1	576-00650-22-81	1-1/2 X 1/2TP&1/2BP(JIC)CCW	WKB	1	576-00650-23-112	2 X 3/4TP&1BP (JIC) CW
VHB	1	576-00650-22-82	1-1/2 X 3/4TP&1/2BP(JIC)CCW	WKC	1	576-00650-23-113	2 X 1TP&1BP (JIC) CW
VHC	1	576-00650-22-83	1-1/2 X 1TP&1/2BP(JIC)CCW	WKD	1	576-00650-23-114	2 X 1-1/4TP&1BP (JIC) CW
VHD	1	576-00650-22-84	1-1/2 X 1-1/4TP&1/2BP(JIC)CCW	WLA	1	576-00650-23-121	2 X 1/2TP&1-1/4BP (JIC) CW
VJA	1	576-00650-22-101	1-1/2 X 1/2TP&3/4BP(JIC)CCW	WLB	1	576-00650-23-122	2 X 3/4TP&1-1/4BP (JIC) CW
VJB	1	576-00650-22-102	1-1/2 X 3/4TP&3/4BP(JIC)CCW	WLC	1	576-00650-23-123	2 X 1TP&1-1/4BP (JIC) CW
VJC	1	576-00650-22-103	1-1/2 X 1TP&3/4BP(JIC)CCW	WLD	1	576-00650-23-124	2 X 1-1/4TP&1-1/4BP (JIC) CW
VJD	1	576-00650-22-104	1-1/2 X 1-1/4TP&3/4BP(JIC)CCW	WLX	1	576-00763-83	2 JIC-T X 1/2JIC-F
VKA	1	576-00650-22-111	1-1/2 X 1/2TP&1BP(JIC)CCW	WML	1	576-00763-84	2 JIC-T X 1/2 JIC-T
VKB	1	576-00650-22-112	1-1/2 X 3/4TP&1BP(JIC)CCW	WMM	1	576-00763-86	2 JIC-T X 3/4 JIC-T
VKC	1	576-00650-22-113	1-1/2 X 1TP&1BP(JIC)CCW	WMN	1	576-00763-88	2 JIC-T X 1 JIC-T
VKD	1	576-00650-22-114	1-1/2 X 1-1/4TP&1BP(JIC)CCW	WMO	1	576-00763-90	2 JIC-T X 1-1/4 JIC-T
VLA	1	576-00650-22-121	1-1/2 X 1/2TP&1-1/4BP(JIC)CCW	WMR	1	576-00763-92	2 JIC-T X 1-1/2 JIC-T
VLB	1	576-00650-22-122	1-1/2 X 3/4TP&1-1/4BP(JIC)CCW	WMS	1	576-00763-94	2 JIC-T X 2 JIC-T
VLC	1	576-00650-22-123	1-1/2 X 1TP&1-1/4BP(JIC)CCW	WMX	1	576-00763-85	2 JIC-T X 3/4 JIC-F
VLD	1	576-00650-22-124	1-1/2 X 1-1/4TP&1-1/4BP(JIC)CCW	WNX	1	576-00763-87	2 JIC-T X 1 JIC-F
VLX	1	576-00763-73	1/2F-L X 1-1/2T-R(JIC)CCW	WOX	1	576-00763-89	2 JIC-T X 1-1/4 JIC-F
VML	1	576-00763-74	1/2T-L X 1-1/2T-R(JIC)CCW	WRX	1	576-00763-91	2 JIC-T X 1-1/2 JIC-F
VMM	1	567-00865-76	3/4T-L X 1-1/2T-R(JIC)CCW	WSX	1	576-00763-93	2 JIC-T X 2 JIC-F
VMN	1	576-00763-78	1T-L X 1-1/2T-R(JIC)CCW	WXL	1	576-00763-83	2 JIC-T X 1/2 JIC-R
VMQ	1	576-00763-80	1-1/4T-L X 1-1/2T-R(JIC)CCW	WXM	1	576-00763-85	2 JIC-T X 3/4 JIC-R
VMR	1	576-00763-82	1-1/2T-L X 1-1/2T-R(JIC)CCW	WXN	1	576-00763-87	2 JIC-T X 1 JIC-R
VMX	1	576-00763-75	3/4F-L X 1-1/2T-R(JIC)CCW	WXO	1	576-00763-89	2 JIC-T X 1-1/4 JIC-R
VNX	1	576-00763-77	1F-L X 1-1/2T-R(JIC)CCW	WXR	1	576-00763-91	2 JIC-T X 1-1/2 JIC-R
VQX	1	576-00763-79	1-1/4F-L X 1-1/2T-R(JIC)CCW	WXS	1	576-00763-93	2 JIC-T X 2 JIC-R
VRX	1	576-00763-81	1-1/2F-L X 1-1/2T-R(JIC)CCW	XHA	1	576-00650-24-81	2 X 1/2TP&1/2BP (JIC) CCW
VXL	1	576-00763-73	1/2B-L X 1-1/2T-R(JIC)CCW	XHB	1	576-00650-24-82	2 X 3/4TP&1/2BP (JIC) CCW
VXM	1	576-00763-75	3/4B-L X 1-1/2T-R(JIC)CCW	XHC	1	576-00650-24-83	2 X 1TP&1/2BP (JIC) CCW
VXN	1	576-00763-77	1B-L X 1-1/2T-R(JIC)CCW	XHD	1	576-00650-24-84	2 X 1-1/4TP, 1/2BP (JIC) CCW
VXQ	1	576-00763-79	1-1/4B-L X 1-1/2T-R(JIC)CCW	XJA	1	576-00650-24-101	2 X 1/2TP&3/4BP (JIC) CCW
VXR	1	576-00763-81	1-1/2B-L X 1-1/2T-R(JIC)CCW	XJB	1	576-00650-24-102	2 X 3/4TP&3/4BP (JIC) CCW
WHA	1	576-00650-23-81	2 X 1/2TP&1/2BP (JIC) CW	XJC	1	576-00650-24-103	2 X 1TP&3/4BP (JIC) CCW
WHB	1	576-00650-23-82	2 X 3/4TP&1/2BP (JIC) CW	XJD	1	576-00650-24-104	2 X 1-1/4TP&3/4BP (JIC) CCW
WHC	1	576-00650-23-83	2 X 1TP&1/2BP (JIC) CW	XKA	1	576-00650-24-111	2 X 1/2TP&1BP (JIC) CCW
WHD	1	576-00650-23-84	2 X 1-1/4TP&1/2BP (JIC) CW	XKB	1	576-00650-24-112	2 X 3/4TP&1BP (JIC) CCW
WJA	1	576-00650-23-101	2 X 1/2TP&3/4BP (JIC) CW	XKC	1	576-00650-24-113	2 X 1TP&1BP (JIC) CCW
WJB	1	576-00650-23-102	2 X 3/4TP&3/4BP (JIC) CW	XKD	1	576-00650-24-114	2 X 1-1/4TP&1BP (JIC) CCW
WJC	1	576-00650-23-103	2 X 1TP&3/4BP (JIC) CW	XLA	1	576-00650-24-121	2 X 1/2TP&1-1/4BP (JIC) CCW
WJD	1	576-00650-23-104	2 X 1-1/4TP&3/4BP (JIC) CW	XLB	1	576-00650-24-122	2 X 3/4TP&1-1/4BP (JIC) CCW

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## Bearing Carriers

CODE	QTY	PART NUMBER	D E S C R I P T I O N	CODE	QTY	PART NUMBER	D E S C R I P T I O N
XLC	1	576-00650-24-123	2 X 1TP&1-1/4BP (JIC) CCW	ZBX	1	576-00763-31	1 SF-F X 2-1/2 SF-T
XLD	1	576-00650-24-124	2 X 1-1/4TP&1-1/4BP (JIC) CCW	ZCC	1	576-00650-23-32	2-1/2 X 1-1/4 & 1-1/4 (SF) CCW
XLX	1	576-00763-83	1/2 JIC-F X 2 JIC-T	ZCX	1	576-00763-33	1-1/4 SF-F X 2-1/2 SF-T
XML	1	576-00763-84	1/2 JIC-T X 2 JIC-T	ZDX	1	576-00763-35	1-1/2 SF-F X 2-1/2 SF-T
XMM	1	576-00763-86	3/4 JIC-T X 2 JIC-T	ZEX	1	576-00763-37	2 SF-F X 2-1/2 SF-T
XMN	1	576-00763-88	1 JIC-T X 2 JIC-T	ZFX	1	576-00763-39	2-1/2 SF-F X 2-1/2 SF-T
XMO	1	576-00763-90	1-1/4 JIC-T X 2 JIC-T	ZMA	1	576-00763-30	3/4 SF-T X 2-1/2 SF-T
XMR	1	576-00763-92	1-1/2 JIC-T X 2 JIC-T	ZMB	1	576-00763-32	1 SF-T X 2-1/2 SF-T
XMS	1	576-00763-94	2 JIC-T X 2 JIC-T	ZMC	1	576-00763-34	1-1/4 SF-T X 2-1/2 SF-T
XMX	1	576-00763-85	3/4 JIC-F X 2 JIC-T	ZMD	1	576-00763-36	1-1/2 SF-T X 2-1/2 SF-T
XNX	1	576-00763-87	1 JIC-F X 2 JIC-T	ZME	1	576-00763-38	2 SF-T X 2-1/2 SF-T
XQX	1	576-00763-89	1-1/4 JIC-F X 2 JIC-T	ZMF	1	576-00763-40	2-1/2 SF-T X 2-1/2 SF-T
XRX	1	576-00763-91	1-1/2 JIC-F X 2 JIC-T	ZXA	1	576-00763-29	3/4 SF-R X 2-1/2 SF-T
XSX	1	576-00763-93	2 JIC-F X 2 JIC-T	ZXB	1	576-00763-31	3/4 SF-R X 2-1/2 SF-T
XXL	1	576-00763-83	1/2 JIC-R X 2 JIC-T	ZXC	1	576-00763-33	1-1/4 SF-R X 2-1/2 SF-T
XXM	1	576-00763-85	3/4 JIC-R X 2 JIC-T	ZXD	1	576-00763-35	1-1/2 SF-R X 2-1/2 SF-T
XXN	1	576-00763-87	1 JIC-R X 2 JIC-T	ZXE	1	576-00763-37	2 SF-R X 2-1/2 SF-T
XXQ	1	576-00763-89	1-1/4 JIC-R X 2 JIC-T	ZXE	1	576-00763-37	2 SF-R X 2-1/2 SF-T
XXR	1	576-00763-91	1-1/2 JIC-R X 2 JIC-T	ZXF	1	576-00763-39	2-1/2 SF-R X 2-1/2 SF-T
XXS	1	576-00763-93	2 JIC-R X 2 JIC-T				
YAX	1	576-00763-29	2-1/2 SF-T X 3/4 SF-F				
YBX	1	576-00763-31	2-1/2 SF-T X 1 SF-F				
YCC	1	576-00650-22-32	2-1/2 X 1-1/4 & 1-1/4 (SF) CW				
YCX	1	576-00763-33	2-1/2 SF-T X 1-1/4 SF-F				
YDX	1	576-00763-35	2-1/2 SF-T X 1-1/2 SF-F				
YEX	1	576-00763-37	2-1/2 SF-T X 2 SF-F				
YFX	1	576-00763-39	2-1/2 SF-T X 2-1/2 SF-F				
YMA	1	576-00763-30	2-1/2 SF-T X 3/4 SF-T				
YMB	1	576-00763-32	2-1/2 SF-T X 1 SF-T				
YMC	1	576-00763-34	2-1/2 SF-T X 1-1/4 SF-T				
YMD	1	576-00763-36	2-1/2 SF-T X 1-1/2 SF-T				
YME	1	576-00763-38	2-1/2 SF-T X 2 SF-T				
YMF	1	576-00763-40	2-1/2 SF-T X 2-1/2 SF-T				
YXA	1	576-00763-29	2-1/2 SF-T X 3/4 SF-R				
YXB	1	576-00763-31	2-1/2 SF-T X 1 SF-R				
YXC	1	576-00763-33	2-1/2 SF-T X 1-1/4 SF-R				
YXD	1	576-00763-35	2-1/2 SF-T X 1-1/2 SF-R				
YXE	1	576-00763-37	2-1/2 SF-T X 2 SF-R				
YXF	1	576-00763-39	2-1/2 SF-T X 2-1/2 SF-R				
ZAX	1	576-00763-29	3/4 SF-F X 2-1/2 SF-T				

PERMCO MODEL: 257

BEARING CARRIER SMALL PARTS

<u>CODE</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>D E S C R I P T I O N</u>
	4	921-00647-P	257 BUSHING

PERMCO MODEL: 257

Connecting Shaft

<u>CODE</u>	<u>QTY</u>	<u>PART NUMBER</u>
1	1	022-00837

<u>D E S C R I P T I O N</u>
257 CONNECTOR SHAFT

**PLASTIC PLUGS**

NPT & BSPP	
Port size	Part#
1/8"	#8
1/4"	#11
3/8"	#17
1/2"	#23
3/4"	#30
1"	#42
1-1/4"	#53
1-1/2"	#57
2"	#68
2-1/2"	#78

**JIC**

1/2"	#23
3/8"	#17
5/8"	#27
3/4"	#35
7/8"	#42
1"	#44
1-1/4"	#53
1-1/2"	#57
2"	#68

**SF & metric SF**

1/2"	#12
3/4"	B-831-213
1"	B-831-214
1-1/4"	B-831-215
1-1/2"	B-831-216
2"	B-831-217
2-1/2"	B-831-218

**257 SERIES  
FASTENERS FOR SINGLE UNITS**

Gear Size	Part #	Bolt Length	Qty.
1/2"	W1-096	3-1/2"	4
3/4"	W1-13	4"	4
1"	W1-13	4"	4
1-1/4"	W1-58	4-1/2"	4
1-1/2"	W1-58	4-1/2"	4
1-3/4"	W1-14	5"	4
2"	W1-14	5"	4
2-1/4"	W1-78	5-1/2"	4
2-1/2"	W1-78	5-1/2"	4

Washer #	W033-2	4
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**Shaft Protectors**

SP-1000-1	.656" Dia
SP-1000-2	.587" Dia
SP-1000-3	1" Dia
SP-1000-4	1-1/4" Splined & 1-1/8" Dia
SP-1000-5	1-1/4" Dia Keyed
SP-1000-6	1/2" Dia
SP-1000-7	5/8" Dia
SP-1000-8	3/4" Dia
SP-1000-8	7/8" Dia

**Shaft Protectors  
for extended studs**

SP-1000-7	2
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**FASTENERS FOR DOUBLE UNITS**

	Flush	Extended
Dual Section	8.5	10.5
Triple Section	13	15
Quad Section	17.5	19.5

**\*\*\*Add total gear width + above dimension  
to obtain stud length.**

Washer #	W033-2	4
Nut #	W3-65	4

Stud #	Description
ZD-0391-08	5/8-11 x 8"
ZD-0391-875	5/8-11 x 8.75"
ZD-0391-09	5/8-11 x 9"
ZD-0391-095	5/8-11 x 9.5"
ZD-0391-10	5/8-11 x 10"
ZD-0391-105	5/8-11 x 10.5"
ZD-0391-112	5/8-11 x 11.25"
ZD-0391-12	5/8-11 x 12"
ZD-0391-125	5/8-11 x 12.5"
ZD-0391-132	5/8-11 x 13.25"
ZD-0391-14	5/8-11 x 14"
ZD-0391-142	5/8-11 x 14.25"
ZD-0391-16	5/8-11 x 16"
ZD-0391-18	5/8-11 x 18"
ZD-0391-20	5/8-11 x 20"
ZD-0391-22	5/8-11 x 22"
ZD-0391-24	5/8-11 x 24"
ZD-0391-26	5/8-11 x 26"
ZD-0391-28	5/8-11 x 28"
ZD-0391-30	5/8-11 x 30"
ZD-0391-36	5/8-11 x 36"
ZD-0391-40	5/8-11 x 40"

