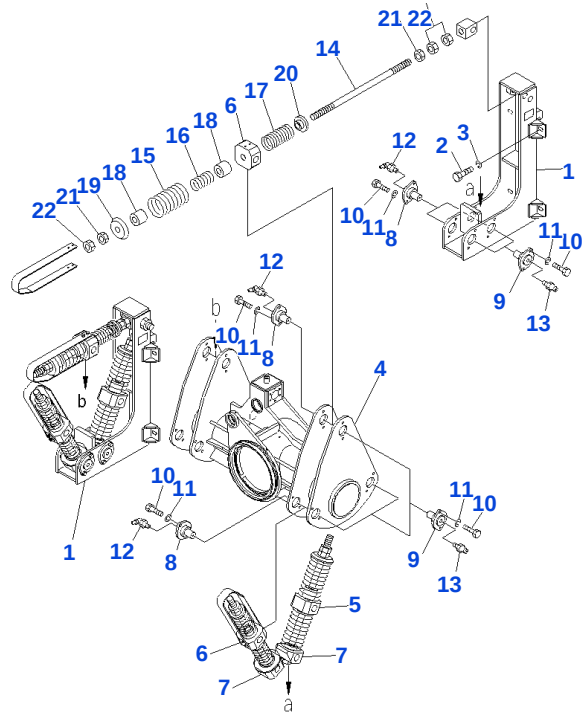


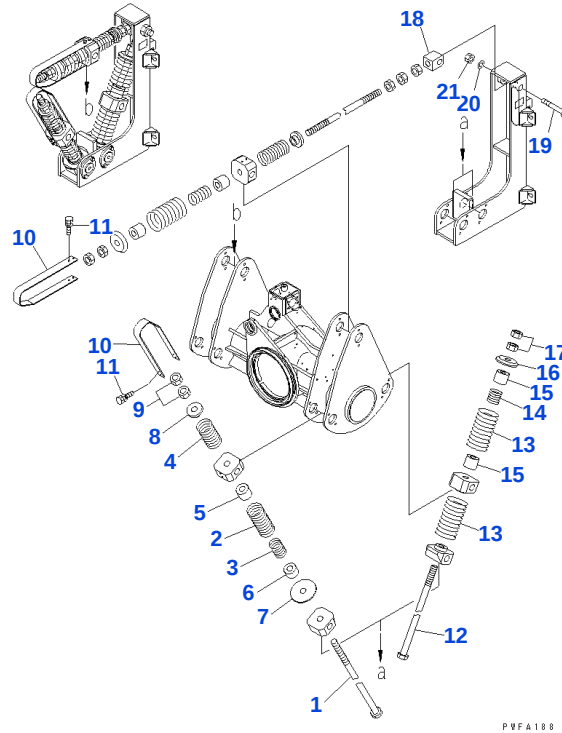


Reference: T4020-01A0

030010 MANIPULATOR (1/7)

Item	Part No.	Part Name	Qty	Options
1	45D-1TM-2210	SUPPORT,MAIN	2	SN: 1001-UP
2	01010-82450	BOLT	8	SN: 1001-UP
3	01602-22472	WASHER	8	SN: 1001-UP
4	45D-6TM-7110	SHAFT	1	SN: 1001-UP
5	45D-1TM-2450	SEAT	2	SN: 1001-UP
6	45D-1TM-2290	SEAT	4	SN: 1001-UP
7	45D-1TM-2280	SEAT	4	SN: 1001-UP
8	45D-1TM-2390	SHAFT	10	SN: 1001-UP
9	46D-6TM-6210	SHAFT	10	SN: 1001-UP
10	01010-81640	BOLT	40	SN: 1001-UP
11	01602-21648	WASHER	40	SN: 1001-UP
12	07020-00675	FITTING	10	SN: 1001-UP
13	07020-00000	FITTING,GREASE	10	SN: 1001-UP
14	308-965-5210	SHAFT	2	SN: 1001-UP
15	310-841-1240	SPRING	2	SN: 1001-UP
16	306-841-1220	SPRING	2	SN: 1001-UP
17	FD50-MA127	SPRING	2	SN: 1001-UP
18	308-965-5221	COLLAR	4	SN: 1001-UP
19	308-965-5230	SEAT	2	SN: 1001-UP
20	308-965-5240	SEAT	2	SN: 1001-UP
21	308-841-1380	NUT	4	SN: 1001-UP
22	01580-14536	NUT	6	SN: 1001-UP

Reference: T4020-01A0

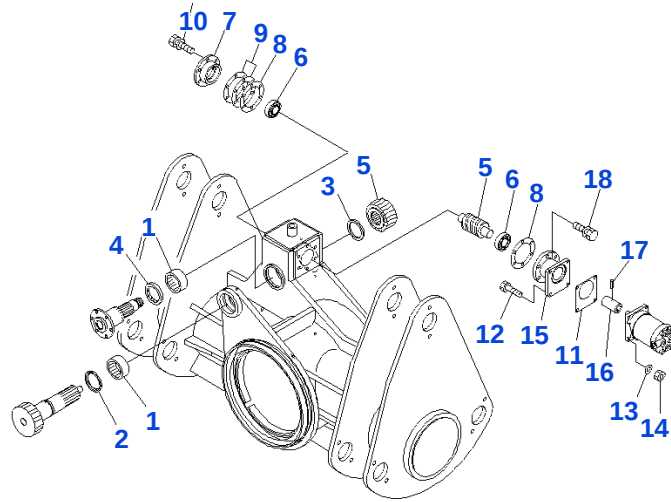


Reference: T4020-02A0

030020 MANIPULATOR (2/7)

Item	Part No.	Part Name	Qty	Options
1	308-965-5250	BOLT	2	SN: 1001-UP
2	310-841-1240	SPRING	2	SN: 1001-UP
3	306-841-1220	SPRING	2	SN: 1001-UP
4	FD50-MA125	COVER	2	SN: 1001-UP
5	308-965-5221	COLLAR	2	SN: 1001-UP
6	308-965-5261	COLLAR	2	SN: 1001-UP
7	308-965-5270	COLLAR	2	SN: 1001-UP
8	308-965-5240	SEAT	2	SN: 1001-UP
9	01580-14536	NUT	4	SN: 1001-UP
10	45D-1TM-2060	COVER	4	SN: 1001-UP
11	01024-81225	BOLT	16	SN: 1001-UP
12	308-965-5280	BOLT	2	SN: 1001-UP
13	310-841-1240	SPRING	4	SN: 1001-UP
14	306-841-1220	SPRING	2	SN: 1001-UP
15	308-965-5221	COLLAR	4	SN: 1001-UP
16	308-965-5230	SEAT	2	SN: 1001-UP
17	01580-14536	NUT	4	SN: 1001-UP
18	308-965-5170	JOINT	2	SN: 1001-UP
19	308-965-5180	BOLT	2	SN: 1001-UP
20	01602-24505	WASHER	2	SN: 1001-UP
21	01580-14536	NUT	2	SN: 1001-UP

Reference: T4020-02A0



PWFA188

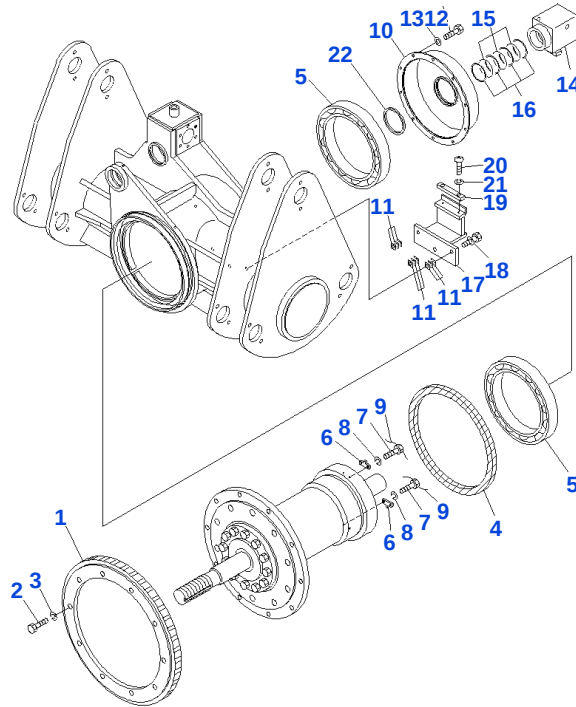
Reference: T4020-03A0

030030 MANIPULATOR (3/7)

Item	Part No.	Part Name	Qty	Options
1	308-841-1680	BEARING	2	SN: 1001-UP
2	45D-1TM-1380	BUSHING	1	SN: 1001-UP
3	FD50-MA132A	PLATE	1	SN: 1001-UP
4	46D-6TM-1770	SEAL	1	SN: 1001-UP
5	308-841-0010	WORM ASS'Y	2	SN: 1001-UP
		• ☆ WORM	1	SN: 1001-UP
		• ☆ WORM WHEEL	1	SN: 1001-UP
6	06000-32207	BEARING	2	SN: 1001-UP
7	FD50-MA144A	COVER	1	SN: 1001-UP
8	FD50-MA145A	PACKING	2	SN: 1001-UP
9	308-841-0020	SHIM ASS'Y	1	SN: 1001-UP
		• ☆ SHIM		SN: 1001-UP
		• ☆ SHIM		SN: 1001-UP
10	01024-81230	BOLT	6	SN: 1001-UP
11	45B-100-2270	PACKING	1	SN: 1001-UP
12	01010-81045	BOLT	4	SN: 1001-UP
13	01643-31032	WASHER	4	SN: 1001-UP
14	01580-11008	NUT	4	SN: 1001-UP
15	45D-1TM-2140	FLANGE	1	SN: 1001-UP
16	45D-1TM-1150	JOINT	1	SN: 1001-UP
17	04025-00440	PIN,ROLL	1	SN: 1001-UP
18	01024-81235	BOLT	6	SN: 1001-UP

Catalog signs: ☆ not supplied separately: assembly only

Reference: T4020-03A0



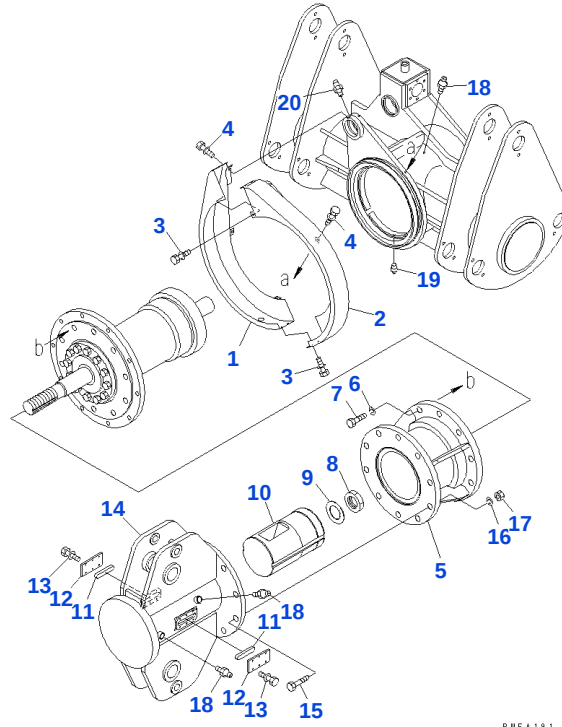
PVFA130

Reference: T4020-04A0

030040 MANIPULATOR (4/7)

Item	Part No.	Part Name	Qty	Options
1	FD50-MA166	GEAR	1	SN: 1001-UP
2	01050-82255	BOLT	10	SN: 1001-UP
3	01602-22268	WASHER	10	SN: 1001-UP
4	306-841-2130	SEAL,OIL	1	SN: 1001-UP
5	306-841-2120	BEARING	2	SN: 1001-UP
6	310-845-2170	STOPPER	2	SN: 1001-UP
7	01014-80825	BOLT	4	SN: 1001-UP
8	01602-20825	WASHER,SPRING	4	SN: 1001-UP
9	04059-01020	WIRE	2	SN: 1001-UP
10	46D-3TM-7360	COVER	1	SN: 1001-UP
11	46D-3TM-7210	SHIM, 0.5MM	9	SN: 1001-UP
	46D-3TM-7220	SHIM, 1.0MM	9	SN: 1001-UP
12	01010-81445	BOLT	3	SN: 1001-UP
13	01643-31445	WASHER	3	SN: 1001-UP
14	45D-1TM-1161	BLOCK	1	SN: 1001-UP
15	07000-15080	O-RING	3	SN: 1001-UP
16	07001-05080	RING,BACK-UP	4	SN: 1001-UP
17	46D-3TM-7190	BRACKET	1	SN: 1001-UP
18	01024-81030	BOLT	2	SN: 1001-UP
19	34B-72-11720	CUSHION	1	SN: 1001-UP
20	01220-40816	SCREW	2	SN: 1001-UP
21	01602-20825	WASHER,SPRING	2	SN: 1001-UP
22	45F-128-1290	FELT	1	SN: 1001-UP

Reference: T4020-04A0



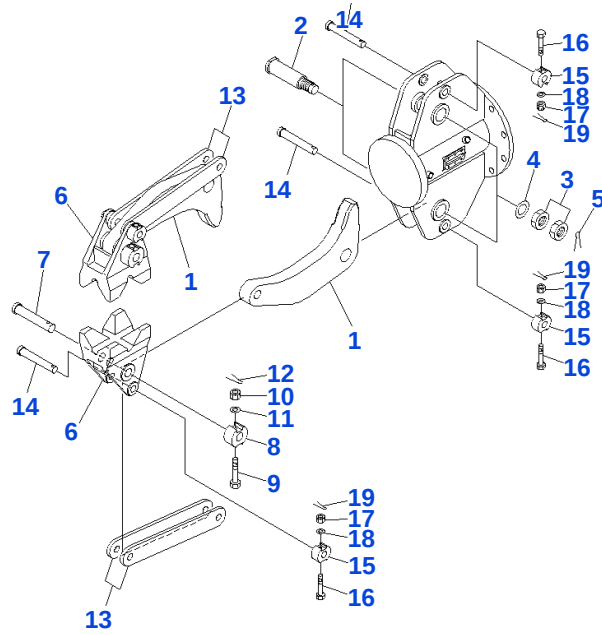
PVFA191

Reference: T4020-05A0

030050 MANIPULATOR (5/7)

Item	Part No.	Part Name	Qty	Options
1	45D-1TM-2121	COVER,(R.H.)	1	SN: 1001-UP
2	45D-1TM-2131	COVER,(L.H.)	1	SN: 1001-UP
3	01024-80610	BOLT	5	SN: 1001-UP
4	01024-81016	BOLT	6	SN: 1001-UP
5	45D-1TM-2231	FLANGE	1	SN: 1001-UP
6	01601-23075	WASHER	10	SN: 1001-UP
7	01010-83080	BOLT	10	SN: 1001-UP
8	310-61-12510	NUT	1	SN: 1001-UP
9	310-61-12520	WASHER	1	SN: 1001-UP
10	45D-1TM-1190	CLAMP,HEAD	1	SN: 1001-UP
11	FD50-MA213	KEY	2	SN: 1001-UP
12	FD50-MA214	PLATE	2	SN: 1001-UP
13	01024-80825	BOLT	18	SN: 1001-UP
14	45D-1TM-2221	GUIDE	1	SN: 1001-UP
15	01010-83095	BOLT	10	SN: 1001-UP
16	01601-23075	WASHER	10	SN: 1001-UP
17	01580-13024	NUT	10	SN: 1001-UP
18	07020-00000	FITTING,GREASE	3	SN: 1001-UP
19	07042-00108	PLUG	1	SN: 1001-UP
20	07020-00000	FITTING,GREASE	1	SN: 1001-UP

Reference: T4020-05A0



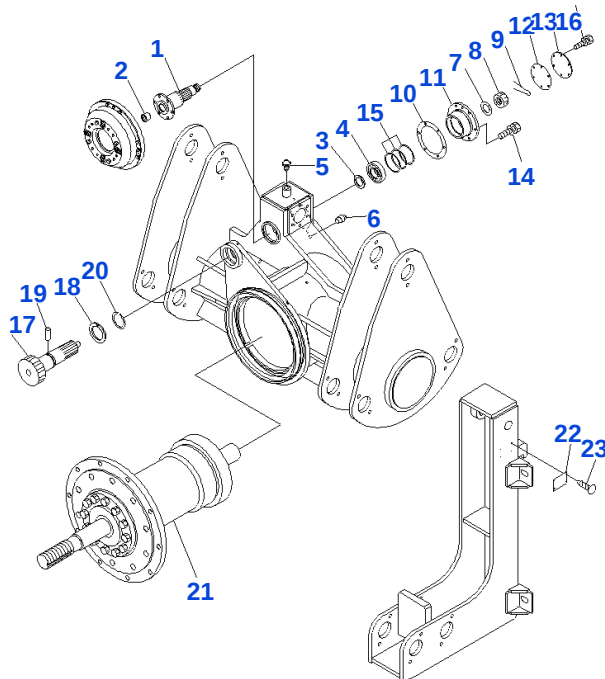
PWFA182

Reference: T4020-06A0

030060 MANIPULATOR (6/7)

Item	Part No.	Part Name	Qty	Options
1	45D-1TM-2470	ARM	2	SN: 1001-UP
2	FD50-MA219A	PIN	2	SN: 1001-UP
3	308-841-1370	NUT	4	SN: 1001-UP
4	01640-25260	WASHER	2	SN: 1001-UP
5	04050-10070	PIN,COTTER	2	SN: 1001-UP
6	45C-1TM-2470	TONG	2	SN: 1001-UP
7	45D-1TM-1260	SHAFT	2	SN: 1001-UP
8	45D-1TM-1240	COLLAR	2	SN: 1001-UP
9	01013-81400	BOLT	2	SN: 1001-UP
10	01590-11416	NUT	2	SN: 1001-UP
11	01640-21426	WASHER	2	SN: 1001-UP
12	04050-13028	PIN,COTTER	2	SN: 1001-UP
13	45D-1TM-2460	LINK	4	SN: 1001-UP
14	45D-1TM-1270	SHAFT	4	SN: 1001-UP
15	45D-1TM-1250	COLLAR	4	SN: 1001-UP
16	01012-81285	BOLT	4	SN: 1001-UP
17	01590-11215	NUT	4	SN: 1001-UP
18	01640-21223	WASHER	4	SN: 1001-UP
19	04050-13022	PIN	4	SN: 1001-UP

Reference: T4020-06A0



PWFA188

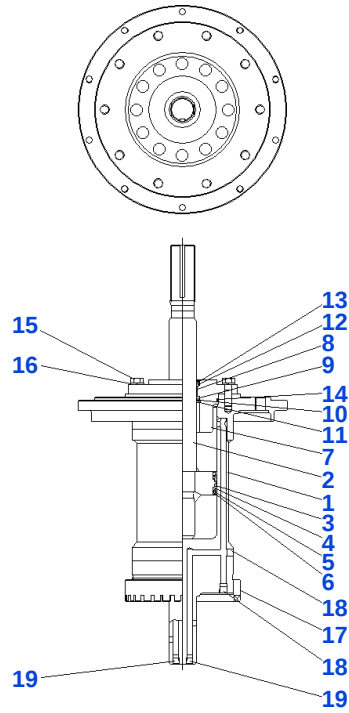
Reference: T4020-07A0

030070 MANIPULATOR (7/7)

Item	Part No.	Part Name	Qty	Options
1	FD50-MA321	SHAFT	1	SN: 1001-UP
2	308-841-1690	BEARING	1	SN: 1001-UP
3	FD50-MA322	WASHER	1	SN: 1001-UP
4	06000-06309	BEARING	1	SN: 1001-UP
5	3EB-15-31290	BREATHER	1	SN: 1001-UP
6	07042-20312	PLUG	2	SN: 1001-UP
7	01640-23650	WASHER	1	SN: 1001-UP
8	01593-13621	NUT	1	SN: 1001-UP
9	04050-06065	PIN,COTTER	1	SN: 1001-UP
10	FD50-MA136	PACKING	1	SN: 1001-UP
11	FD50-MA324A	COVER	1	SN: 1001-UP
12	FD50-MA325	PACKING	1	SN: 1001-UP
13	FD50-MA326	COVER	1	SN: 1001-UP
14	01024-81025	BOLT	6	SN: 1001-UP
15	FD50-MA327	SHIM	7	SN: 1001-UP
16	01024-80820	BOLT	6	SN: 1001-UP
17	45D-1TM-1480	GEAR,PINION	1	SN: 1001-UP
18	FD50-MA328	WASHER	2	SN: 1001-UP
19	04020-00514	PIN,DOWEL	1	SN: 1001-UP
20	04066-00070	RING,SNAP	1	SN: 1001-UP
21	45D-1TM-2071UE	CYLINDER ASS'Y,CLAMP	1	SN: 1001-UP
22		☆ PLATE, NAME	1	SN: 1001-UP
23	04418-13060	SCREW	4	SN: 1001-UP
24	308-841-9150	COVER,NOT SHOWN	1	SN: 1001-UP

Catalog signs: ☆ not supplied separately: assembly only

Reference: T4020-07A0



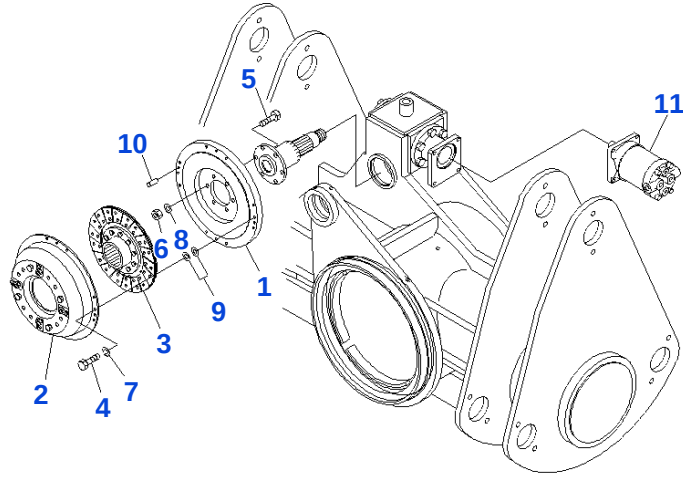
P4FA203

Reference: T4020-08A0

030080 CLAMP CYLINDER INNER PARTS

Item	Part No.	Part Name	Qty	Options
	45D-1TM-2071UE	CYLINDER ASS'Y	1	SN: 1001-UP
1	KB30017-29811	• CYLINDER	1	SN: 1001-UP
2	KB30017-29812	• ROD,PISTON	1	SN: 1001-UP
3	KB30251-20002	• RING,PISTON	2	SN: 1001-UP
4	KB30943-20001	• U-RING	2	SN: 1001-UP
5	KB30261-20001	• HOLDER,U-RING	2	SN: 1001-UP
6	KB30331-00035	• STOPPER	2	SN: 1001-UP
7	KB30016-29809	• HEAD,CYLINDER	1	SN: 1001-UP
8	KB30131-08001	• BUSHING	1	SN: 1001-UP
9	KB30911-08013	• U-RING	1	SN: 1001-UP
10	KB30151-08001	• HEADER,PACKING	1	SN: 1001-UP
11	KB30141-08002	• RING,SNAP	1	SN: 1001-UP
12	KB30191-08001	• RING,WIPER	1	SN: 1001-UP
13	KB30141-08501	• RING,SNAP	1	SN: 1001-UP
14	KB95123-20000	• O-RING	1	SN: 1001-UP
15	KB92188-22601	• BOLT	12	SN: 1001-UP
16	KB94101-22562	• WASHER,SPRING	12	SN: 1001-UP
17	KB30016-29808	• NUT	1	SN: 1001-UP
18	KB97124-04111	• PLUG	2	SN: 1001-UP
19	KB97124-06111	• PLUG	2	SN: 1001-UP

Reference: T4020-08A0



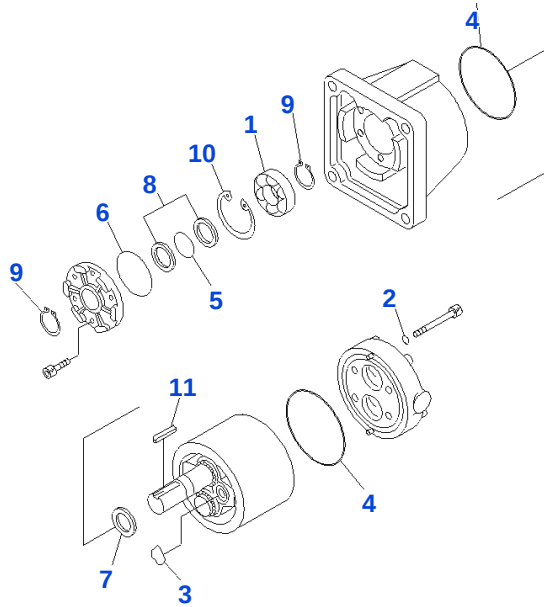
PWFA194

Reference: T4020-09A0

030090 MANIPULATOR (CLUTCH AND HYDRAULIC MOTOR)

Item	Part No.	Part Name	Qty	Options
1	46D-6TM-1730	FLYWHEEL	1	SN: 1001-UP
2	3EB-11-11610	PLATE	1	SN: 1001-UP
3	46E-120-1191	CLUTCH SUB ASS'Y	1	SN: 1001-UP
4	01010-80818	BOLT	12	SN: 1001-UP
5	46D-6TM-1760	BOLT	6	SN: 1001-UP
6	01582-11210	NUT	6	SN: 1001-UP
7	01602-20825	WASHER, SPRING	12	SN: 1001-UP
8	01643-31232	WASHER	6	SN: 1001-UP
9	01640-20816	WASHER	48	SN: 1001-UP
10	04020-00616	PIN, DOWEL	2	SN: 1001-UP
11	37B-ZHD-1060	MOTOR ASS'Y	1	SN: 1001-UP

Reference: T4020-09A0



PTF24 94

Reference: T4020-10A0

030100 HYDRAULIC MOTOR INNER PARTS

Item	Part No.	Part Name	Qty	Options
	37B-ZHD-1060	MOTOR ASS'Y	1	SN: 1001-UP
1	45B-1RF-1010	• BEARING	1	SN: 1001-UP
2	45B-1RF-1020	• O-RING	4	SN: 1001-UP
3	45B-1RF-1030	• O-RING	4	SN: 1001-UP
4	45B-1RF-1040	• O-RING	2	SN: 1001-UP
5	45B-1RF-6060	• O-RING	1	SN: 1001-UP
6	45B-1RF-6070	• O-RING	1	SN: 1001-UP
7	45B-1RF-1060	• GASKET	2	SN: 1001-UP
8	45B-1RF-6080	• RING,BACK-UP	2	SN: 1001-UP
9	04064-02512	• RING,SNAP	2	SN: 1001-UP
10	04065-05220	• RING,SNAP	1	SN: 1001-UP
11	45B-1RF-6090	• KEY	1	SN: 1001-UP

Reference: T4020-10A0

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