

UNIC Hydraulic Cranes

UR330 Series

**PARTS
MANUAL**

FURUKAWA UNIC Corporation



HYDRAULIC CRANE PARTS CATALOG

UR330 - SERIES

SERIAL No. A123452~

PCUR330A2199102A

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GENERAL INFORMATION

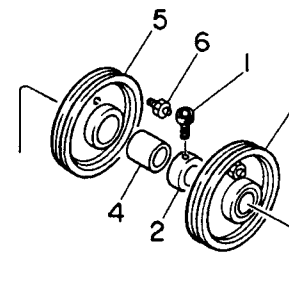
This parts catalog contains the description of the parts for UNIC Hydraulic Crane Model UR330 series.

The application is Cranes from serial number UR330 series No. A123452~.

The crane serial number is engraved on the specification plate fixed at the column.

● HOW TO USE THIS PARTS CATALOG

KEY No.	PARTS No.	PARTS NAME	Q'ty	MARK	SERIAL No.	NOTE
(Example) 1~43	0146 24000	Boom Ass'y	1 set	△	---	→ Assembly part
1	7161 06030	Bolt	2		---	→ Sub-assembly part
2	0215 21020	Spacer	1		---	
A 3	9110 00019	Sheave - slide 200 φ Ass'y	2 set		---	
A 4	0211 21130	Bushing	1		---	→ Component part
A 5	0217 21180	Sheave - slide 200 φ	1		---	
A 6	7243 31000	Nipple - grease	1		---	



1. Illustrations are shown every component group and each part is denoted with index number on outgoing line. The index number agrees with the key number of the lists. Therefore, you can find the part name, part number, quantity, applicable serial number crane, changing period, etc. by the number.
2. Relations of assembly part, sub-assembly part and component part are indicated as above list and illustration.
3. A • B • C...in the "KEY No." column indicate sub-assembly parts and A1 • A2 • A3...B1 • B2 • B3.....S1 • S2 • S3...indicate component parts.
4. Each number in the "Q'ty" column indicates the quantity used per each assembly.

5. How to read the indication in the "Mark" column.

○New and old parts are interchangeable.

×New and old parts are not interchangeable.

△Part not for sale.

DDisuse.

QQuantity change.

6. How to order the service parts.

- (1) When ordering service parts, please be sure to supply the following information.

* Crane model	* Serial number
* Assembly name	* Part name
* Part number	* Quantity

- (2) Interchangeable or no-interchangeable part.

When you order the interchangeable part marked ○, please order new part.

When you order the interchangeable part marked ×, please confirm the serial number and the manufactured date of the crane, and order adequate part.

- (3) Quantity, length

nDecide your necessary quantity.

ℓDecide your necessary length.

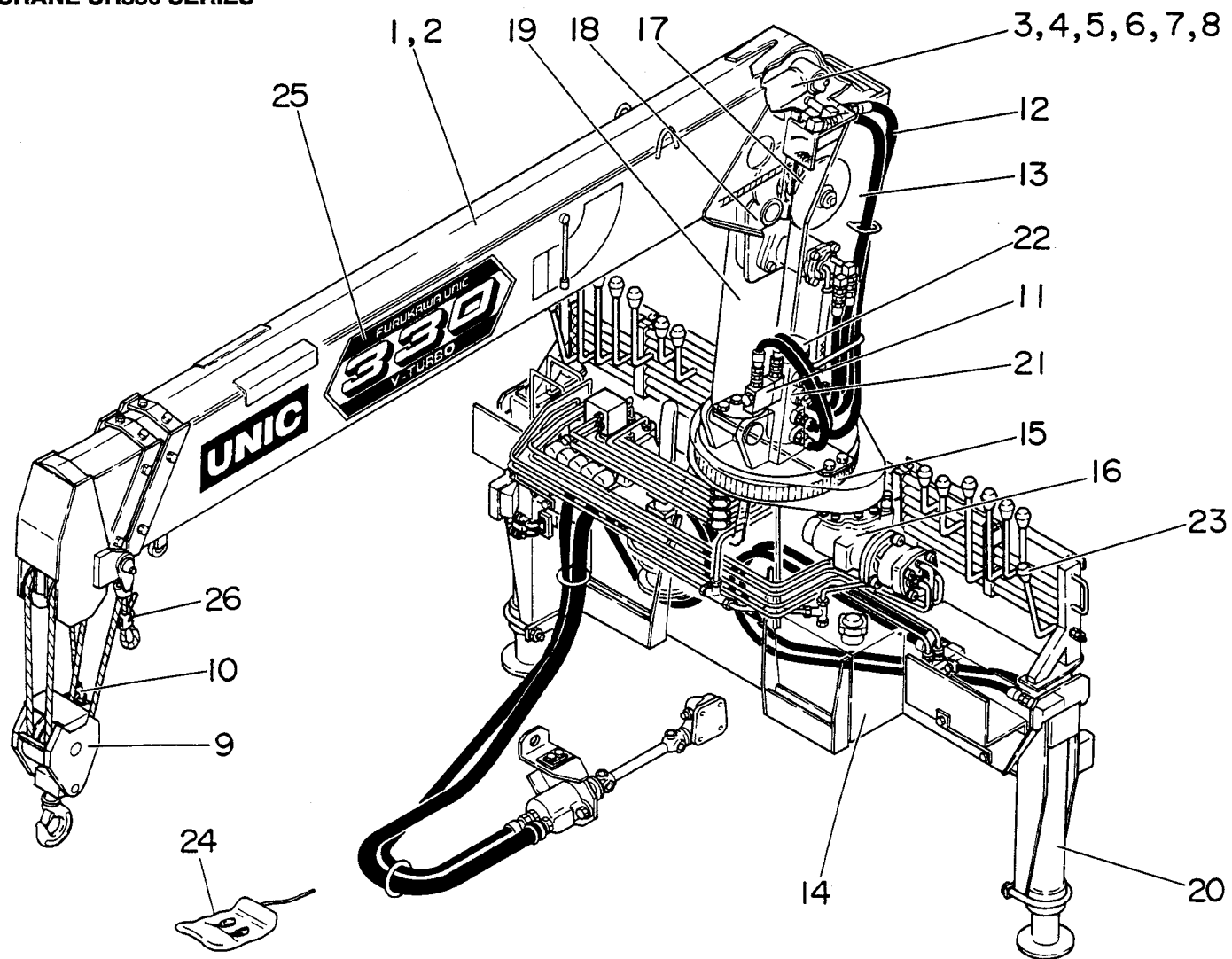
- (4) Use "UNIC GENUINE PARTS" exclusively for servicing your crane.

No warranty can be given on a trouble caused by using a part except genuine parts.

- (5) Purchase the service parts at your nearest dealer or service shop.

(Note) In accordance with our policy of constant improvement, all parts are subject to change without notice or obligation.

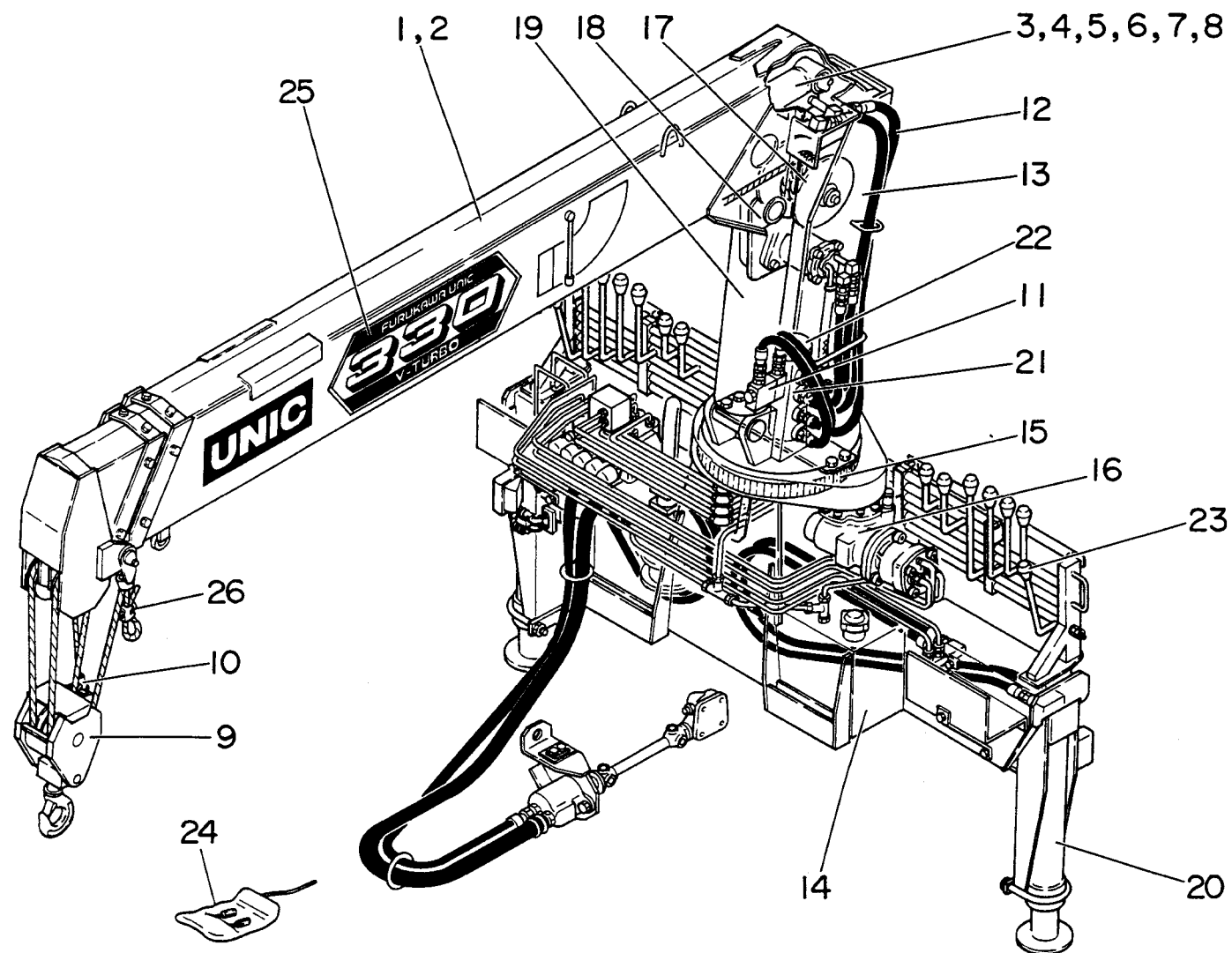
HYDRAULIC TRUCK CRANE UR330 SERIES



C O N T E N T S

FIG. NO.	SECTION NAME	PAGE	FIG. NO.	SECTION NAME	PAGE
	(UR333-A2, 334-A2)		13	COLUMN ASS'Y	64
1	3-section BOOM ASS'Y (UR333)	12	14	BASE ASS'Y	66
2	4-section BOOM ASS'Y (UR334)	16	15	SWING DEVICE ASS'Y	68
3	EXTENSION CYLINDER (1) ASS'Y (UR333)	20	16	SWING GEAR BOX ASS'Y	70
4	EXTENSION CYLINDER (2) ASS'Y (UR333)	26	17	HOIST WINCH ASS'Y	72
5	SELECTOR VALVE ASS'Y (UR333)	32	18	WINCH GEAR BOX ASS'Y	76
6	EXTENSION CYLINDER (1) ASS'Y (UR334)	38	19	BOOM LIFT CYLINDER ASS'Y	78
7	EXTENSION CYLINDER (2) ASS'Y (UR334)	40	20	OUTRIGGER CYLINDER ASS'Y	80
8	SELECTOR VALVE ASS'Y (UR334)	42	21	SWIVEL JOINT ASS'Y	82
9	HOOK ASS'Y	44	22	SLIP RING ASS'Y	84
10	SAFETY DEVICE ASS'Y	46	23	CONTROL ASS'Y	86
11	HYDRAULIC DRIVING DEVICE	48	24	TOOLS	88
12-1	PIPING (Boom lift cylinder)	50	25	PLACARD	90
12-2	PIPING (Hoist motor)	52	26	EQUIPMENT	94
12-3	PIPING (Extension cylinder)	56			
12-4	PIPING (Swing motor)	58			
12-5	PIPING (Outrigger)	60			

HYDRAULIC TRUCK CRANE UR330-A2 SERIES



C O N T E N T S

FIG. NO.	SECTION NAME	PAGE	FIG. NO.	SECTION NAME	PAGE
	(HYDRAULIC PARTS)				
HP 1	CONTROL VALVE ASS'Y (MV-30A, 6-Spool)	168			
HP 2	RELIEF VALVE ASS'Y (RT-15C)	170			
HP 3	EXTENSION CYLINDER HOLDING VALVE ASS'Y (CB-03ET)	172			
HP 4	BOOM LIFT CYLINDER HOLDING VALVE ASS'Y (CB-03ED)	174			
HP 5	RETURN FILTER ASS'Y	176			
HP 6	OUTRIGGER CYLINDER HOLDING VALVE ASS'Y (CP-03F)	178			
HP 7	PILOT CHECK VALVE ASS'Y (CP-03W)	180			

UR333-A2
UR334-A2

Fig. 1 3-section BOOM ASS'Y (UR333)

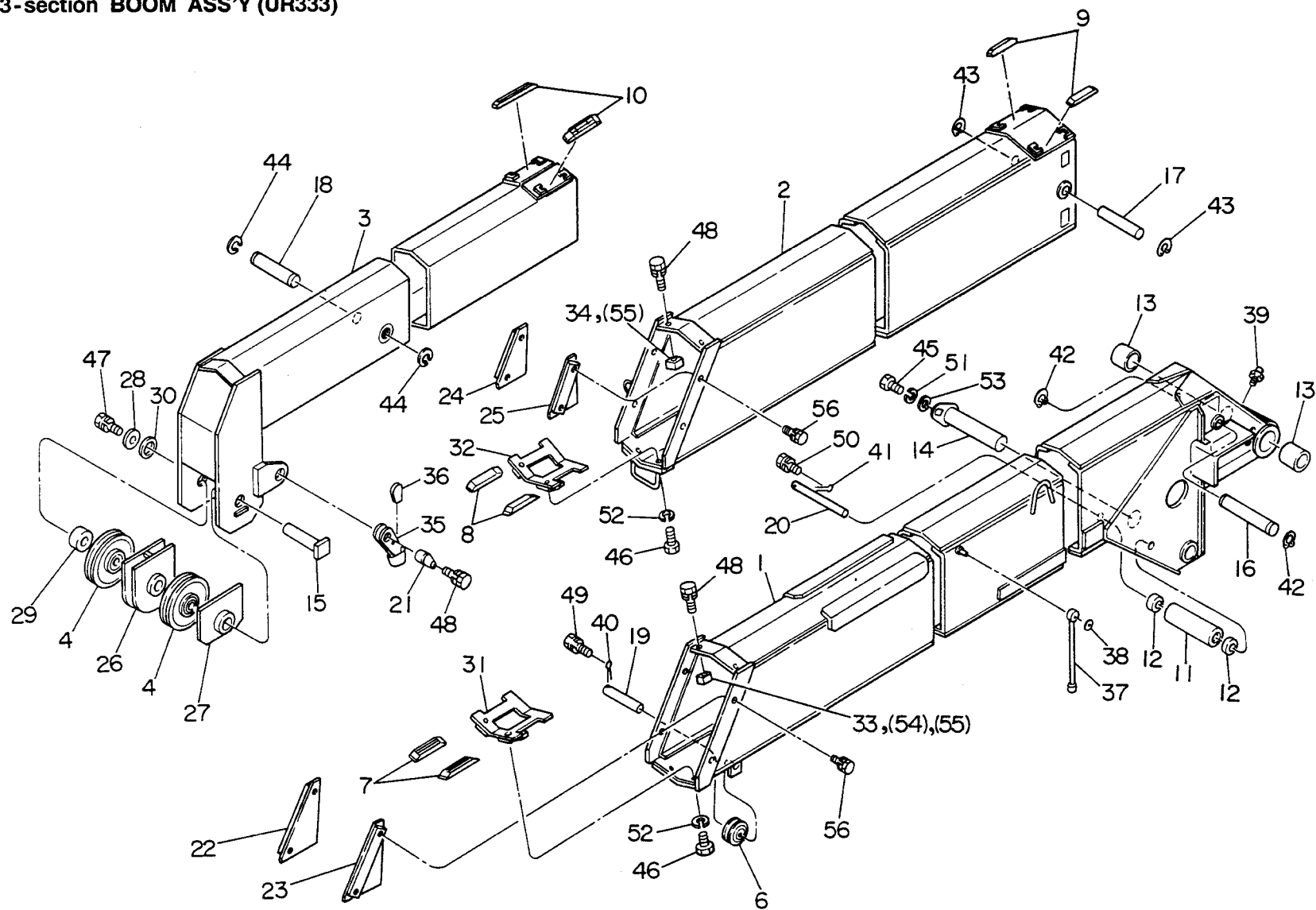


Fig. 1 3-section BOOM ASS'Y (UR333)

KEY No.	PARTS No.	PARTS NAME	Q t y	M A R K	SERIAL No.	NOTE	KEY No.	PARTS No.	PARTS NAME	Q t y	M A R K	SERIAL No.	NOTE
1~56	080B 21000	3-section Boom Ass'y	1 set	△			19	0145 23050	Pin (20)	1			
1	080B 21011	Boom (1)	1				20	0806 21090	Pin (15)	1			
2	080B 21021	Boom (2)	1				21	0805 21111	Pin (35)	1			
3	080B 21031	Boom (3)	1				22	080B 21160	Plate	1			
4	K821 00810	Sheave Ass'y	2 set				23	080B 21170	Plate	1			
5	☆						24	080B 21180	Plate	1			
6	0185 21031	Sheave (4.85×55)	1				25	080B 21190	Plate	1			
7	080B 21040	Plate-slide (Nylon)	2				26	0805 21121	Plate	1			
8	0149 21360	Plate-slide (Nylon)	2				27	0805 21133	Plate	1			
9	0182 21270	Plate-slide (Nylon)	2				28	0119 51060	Plate	1			
10	0143 21280	Plate-slide (Nylon)	2				29	01F1 27010	Collar	1			
11	080B 21200	Roller	1				30	0182 21110	Collar	1			
12	7260 60022	Bearing	2				31	080B 21120	Base-slide	1			
13	0143 11061	Bushing	2				32	080B 21130	Base-slide	1			
14	080B 21050	Pin (50)	1				33	080C 21070	Guide	2			
15	0144 24021	Pin (35)	1				34	080B 21210	Guide	2			
16	0182 21060	Pin (30)	1				35	0805 21180	Socket-wire	1			
17	080B 21060	Pin (30)	1				36	0123 32090	Wedge	1			
18	0148 21080	Pin (25)	1				37	0149 21321	Indicator	2			

Q.....New and old parts are interchangeable. *.....New and old parts are not interchangeable. △.....Part not for sale. D.....Disuse. Q.....Quantity

Fig. 1 3-section BOOM ASS'Y (UR333)

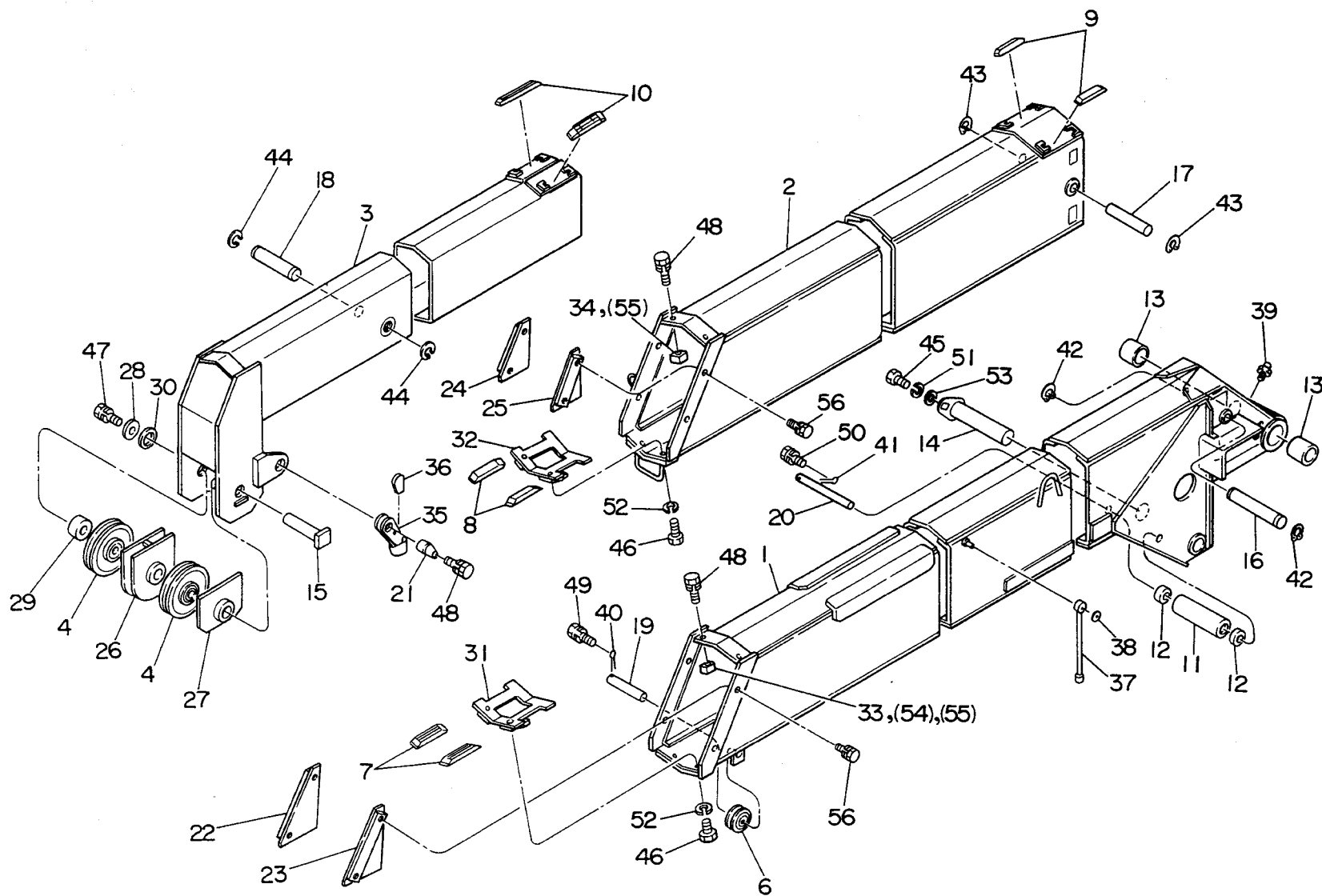


Fig. 1 3-section BOOM ASS'Y (UR333)

KEY No.	PARTS No.	PARTS NAME	Q t y	M A R K	SERIAL No.	NOTE	KEY No.	PARTS No.	PARTS NAME	Q t y	M A R K	SERIAL No.	NOTE
38	7241 90050	Nut-push	2										
39	7243 32000	Nipple-grease	1										
40	7231 08030	Pin-split	1										
41	7231 06025	Pin-split	1										
42	7241 10300	Ring-snap	2										
43	7241 20300	Ring-snap	2										
44	7241 20250	Ring-snap	2										
45	7119 12025	Bolt	1										
46	7117 10025	Bolt	4										
47	7141 10020	Bolt & Washer	1										
48	7141 10016	Bolt & Washer	5										
49	7142 06015	Bolt & Washer	1										
50	7142 05012	Bolt & Washer	1										
51	7222 11120	Washer-spring	1										
52	7222 11100	Washer-spring	4										
53	7221 12120	Washer-plain	1										
54	7221 12100	Washer-plain	2										
55	080C 21140	Shim	6										
56	7141 10015	Bolt & Washer	8										

Q.....New and old parts are interchangeable. *.....New and old parts are not interchangeable. Δ.....Part not for sale. D.....Disuse. Q.....Quantity

Fig. 2 4-section BOOM ASS'Y (UR334)

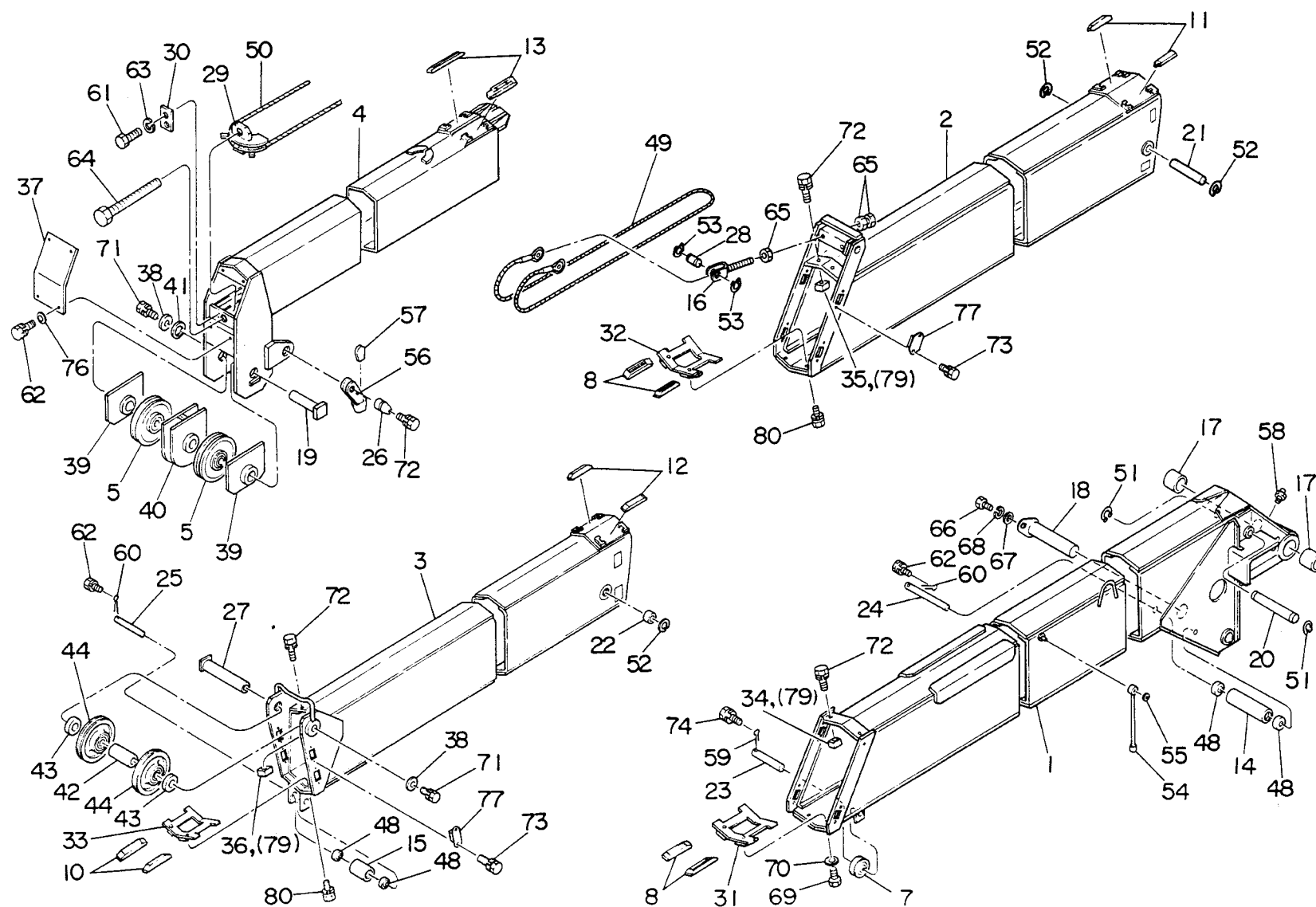


Fig.2 4-section BOOM ASS'Y (UR334)

KEY No.	PARTS No.	PARTS NAME	Q t y	M A R K	SERIAL No.	NOTE	KEY No.	PARTS No.	PARTS NAME	Q t y	M A R K	SERIAL No.	NOTE
1~80	080C 21000	4-section Boom Ass'y	1 set	△			19	0146 21141	Pin (35)	1			
1	080C 21012	Boom (1)	1				20	0149 21150	Pin (30)	1			
2	080C 21021	Boom (2)	1				21	0149 21160	Pin (30)	1			
3	080C 21032	Boom (3)	1				22	0806 21080	Pin (30)	2			
4	080C 21041	Boom (4)	1				23	0145 23050	Pin (20)	1			
5	K821 00810	Sheave Ass'y	2 set				24	0806 21090	Pin (15)	1			
6	☆						25	0806 21110	Pin (15)	1			
7	0185 21031	Sheave (4.85×55)	1				26	0805 21110	Pin (35)	1			
8	0190 21061	Plate-slide (Nylon)	4				27	0149 21180	Pin (35)	1			
9	☆						28	0142 21350	Pin (10)	2			
10	0190 21081	Plate-slide (Nylon)	2				29	0806 21120	Sheave	1			
11	0182 21270	Plate-slide (Nylon)	2				30	0806 21130	Plate	1			
12	0149 21111	Plate-slide (Nylon)	2				31	0882 21250	Base-slide (160)	1			
13	0149 21370	Plate-slide (Nylon)	2				32	080C 21051	Base-slide (160)	1			
14	0806 21050	Roller	1				33	080C 21060	Base-slide (90)	1			
15	0806 21060	Roller	1				34	080C 21070	Guide (11.5)	2			
16	0806 21070	Bolt-adjust	2				35	080C 21150	Guide (14.5)	2			
17	0143 11061	Bushing	2				36	080C 21160	Guide (20.5)	2			
18	0149 21140	Pin (50)	1				37	080C 21080	Cover	1			

○.....New and old parts are interchangeable. ✕.....New and old parts are not interchangeable. △.....Part not for sale. D.....Disuse. Q.....Quantity

Fig. 2 4-section BOOM ASS'Y (UR334)

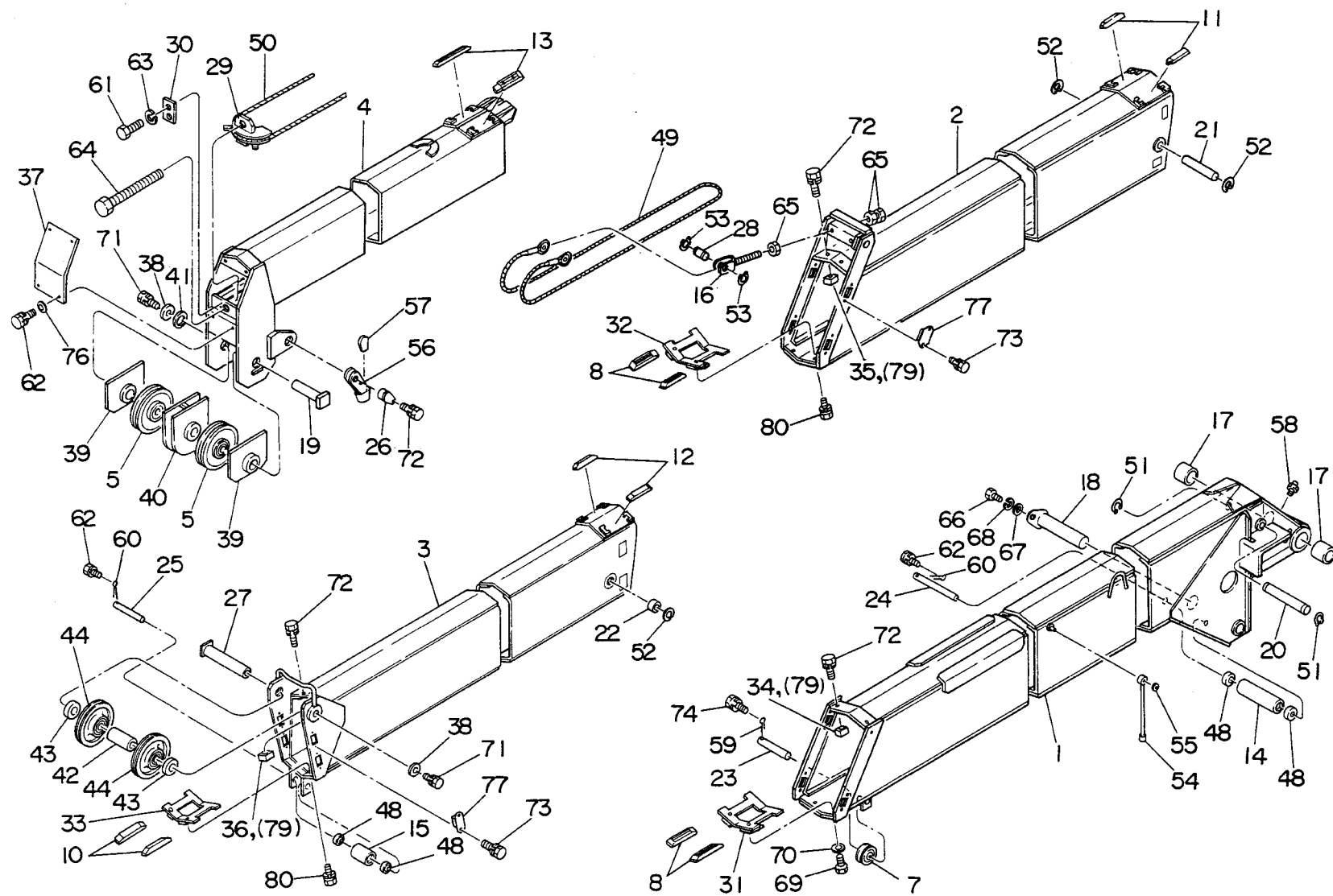


Fig. 2 4-section BOOM ASS'Y (UR334)

KEY No.	PARTS No.	PARTS NAME	Q t y	M A R K	SERIAL No.	NOTE	KEY No.	PARTS No.	PARTS NAME	Q t y	M A R K	SERIAL No.	NOTE
38	0119 51060	Plate	2				57	0123 32090	Wedge	1			
39	0805 21133	Plate	2				58	7243 32000	Nipple-grease	1			
40	0806 21151	Plate	1				59	7231 08030	Pin-split	1			
41	0182 21110	Collar	1				60	7231 06025	Pin-split	2			
42	080C 21090	Collar	1				61	7161 08020	Bolt	2			
43	0805 35040	Collar	2				62	7142 05012	Bolt & Washer	6			
44	AC21 00811	Sheave Ass'y	2				63	7222 11080	Washer-spring	2			
45	☆						64	7114 18130	Bolt	1			
46	☆						65	7211 11160	Nut	6			
47	☆						66	7119 12025	Bolt	1			
48	7260 60022	Bearing	4				67	7221 12120	Washer-plain	1			
49	080C 21120	Rope-wire (Boom Ext)	1				68	7222 11120	Washer-spring	1			
50	080C 21130	Rope-wire (Boom Ret)	1				69	7117 10022	Bolt	2			
51	7241 10300	Ring-snap	2				70	7222 31100	Washer-conical spring	2			
52	7241 20300	Ring-snap	4				71	7141 10020	Bolt & Washer	2			
53	7241 10250	Ring-snap	4				72	7141 10016	Bolt & Washer	7			
54	0149 21321	Indicator	2				73	7141 08015	Bolt & Washer	16			
55	7241 90050	Nut-push	2				74	7142 06015	Bolt & Washer	1			
56	0805 21180	Socket-wire	1				75	☆					

○.....New and old parts are interchangeable. ✕.....New and old parts are not interchangeable. △.....Part not for sale. D.....Disuse. Q.....Quantity

Fig. 2 4-section BOOM ASS'Y (UR334)

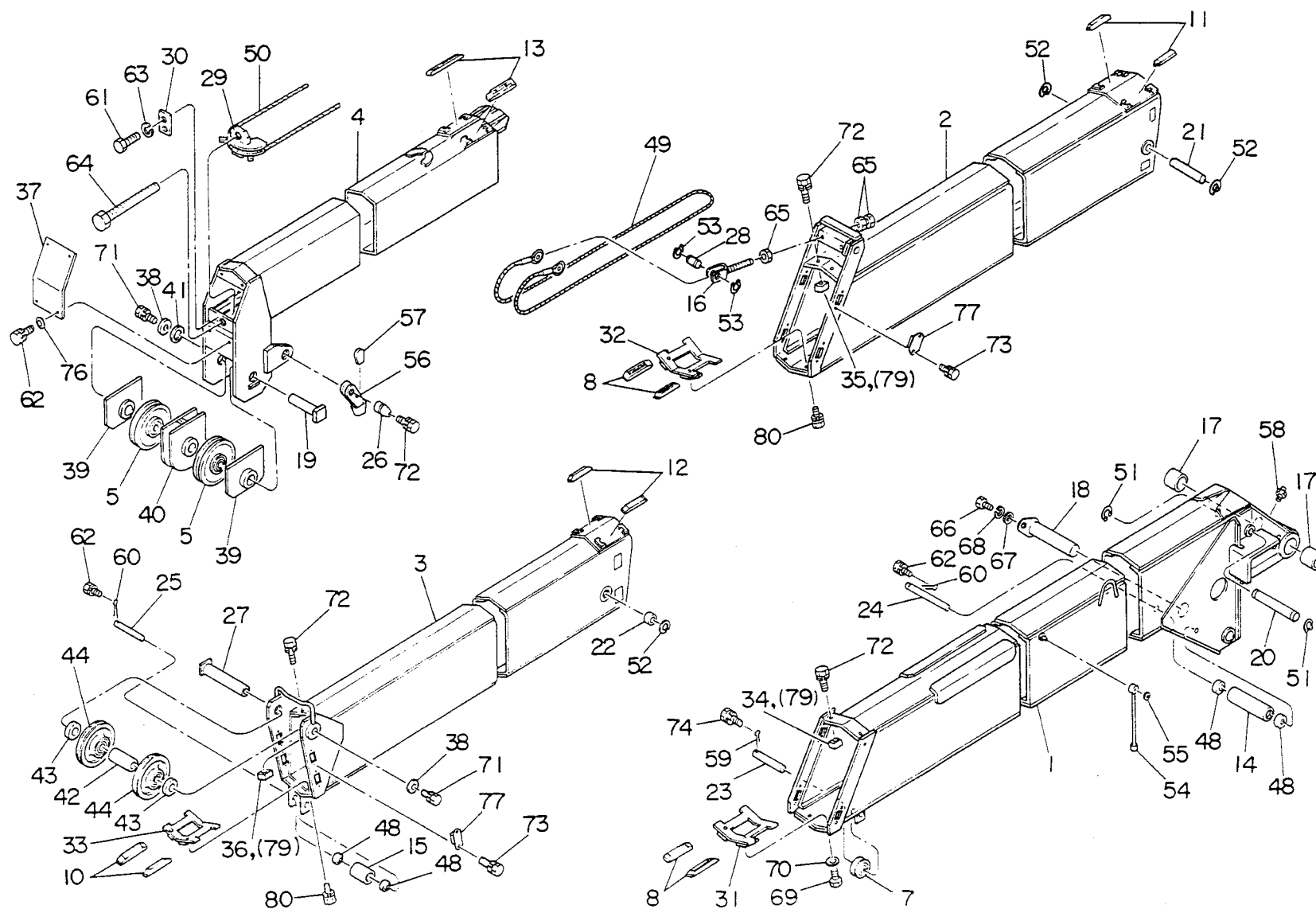


Fig. 2 4-section BOOM ASS'Y (UR334)

KEY No.	PARTS No.	PARTS NAME	Q t y	M A R K	SERIAL No.	NOTE	KEY No.	PARTS No.	PARTS NAME	Q t y	M A R K	SERIAL No.	NOTE
76	7221 12050	Washer-plain	4										
77	0882 21090	Plate-slide Ass'y	8										
78	☆												
79	080C 21140	Shim	12										
80	7601 29045	Bolt & Washer	4										

Q.....New and old parts are interchangeable. X.....New and old parts are not interchangeable. ΔPart not for sale. D.....Disuse. Q.....Quantity

Fig. 3 EXTENSION CYLINDER (1) ASS'Y (UR333)

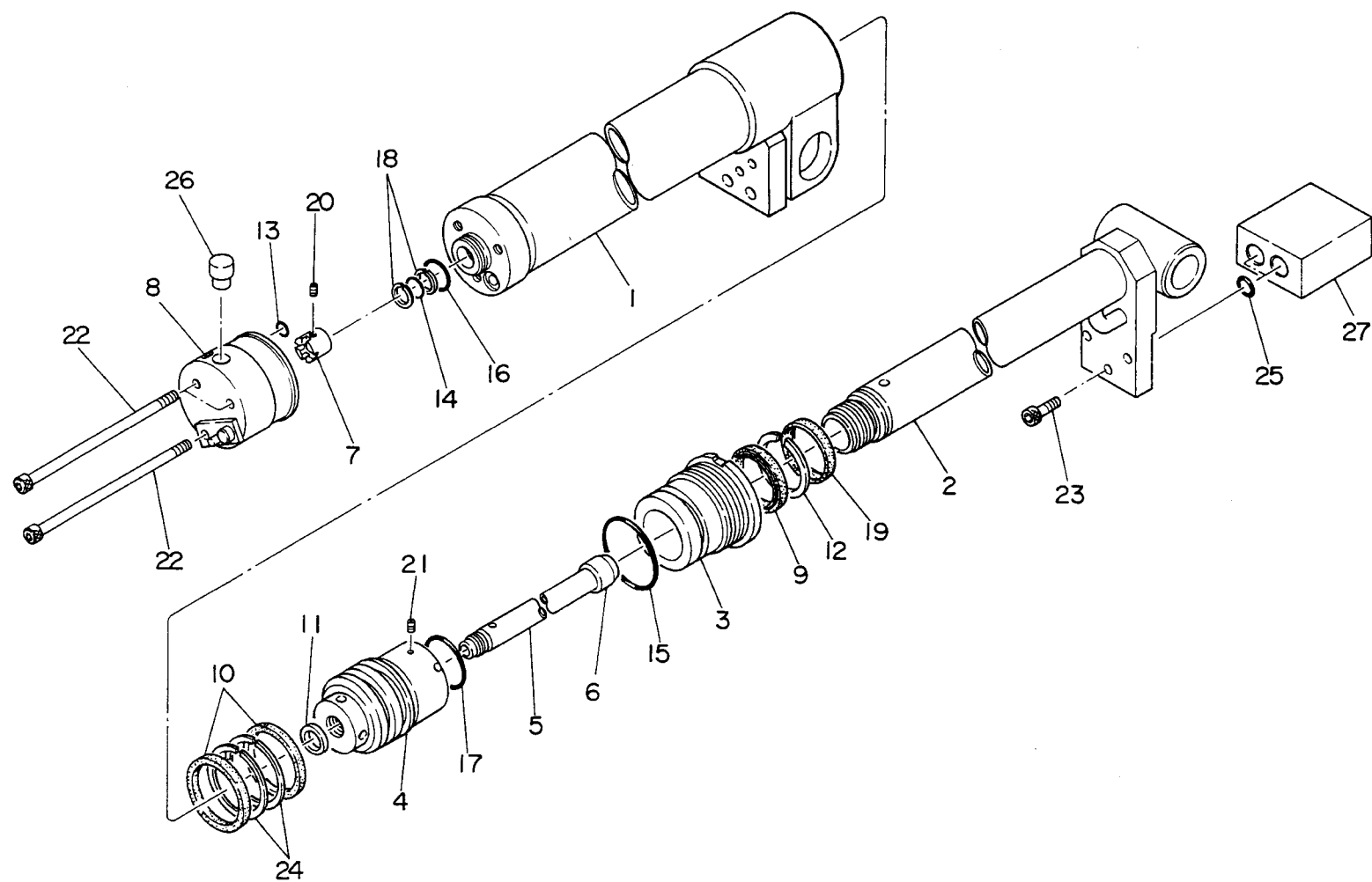


Fig. 3 EXTENSION CYLINDER (1) ASS'Y (UR333)

KEY No.	PARTS No.	PARTS NAME	Q t y	M A R K	SERIAL No.	NOTE	KEY No.	PARTS No.	PARTS NAME	Q t y	M A R K	SERIAL No.	NOTE
1~26	080B 15000	Extension cylinder (1) Ass'y	1 set				S 19	8290 45053	Seal-dust	1			
1	080B 15010	Tube Ass'y	1				20	7049 06006	Screw-set	1			
2	080B 15021	Rod Ass'y (1)	1				21	7049 06008	Screw-set	1			
3	0805 15030	Gland	1				22	7161 08100	Bolt	3			
4	0805 15040	Piston	1				23	7161 08030	Bolt	3			
5	0807 15021	Pipe-slide	1				S 24	8280 55065	Ring-back up	2			
6	0800 14050	Stopper	1				S 25	7311 91016	Ring-"O"	2			
7	0805 15060	Nut	1				26	080B 15030	Pin	1			
8	0805 15071	Selector valve Ass'y SEE Fig. 5	1				27	6014 73000	Extension cylinder holding valve Ass'y SEE Fig. HP3	1			CB-03ET
S 9	8230 45055	Packing	1				S	9180 515P0	Packing set	1 set			
S 10	8230 55065	Packing	2										
S 11	8380 18024	Packing	1										
S 12	8280 45055	Ring-back up	1										
S 13	7311 91015	Ring-"O"	2										
S 14	7311 71018	Ring-"O"	1										
S 15	7311 91058	Ring-"O"	1										
S 16	7311 91026	Ring-"O"	1										
S 17	7311 92045	Ring-"O"	1										
S 18	7321 21018	Ring-back up	2										

○.....New and old parts are interchangeable. ✕.....New and old parts are not interchangeable. △.....Part not for sale. D.....Disuse. Q.....Quantity

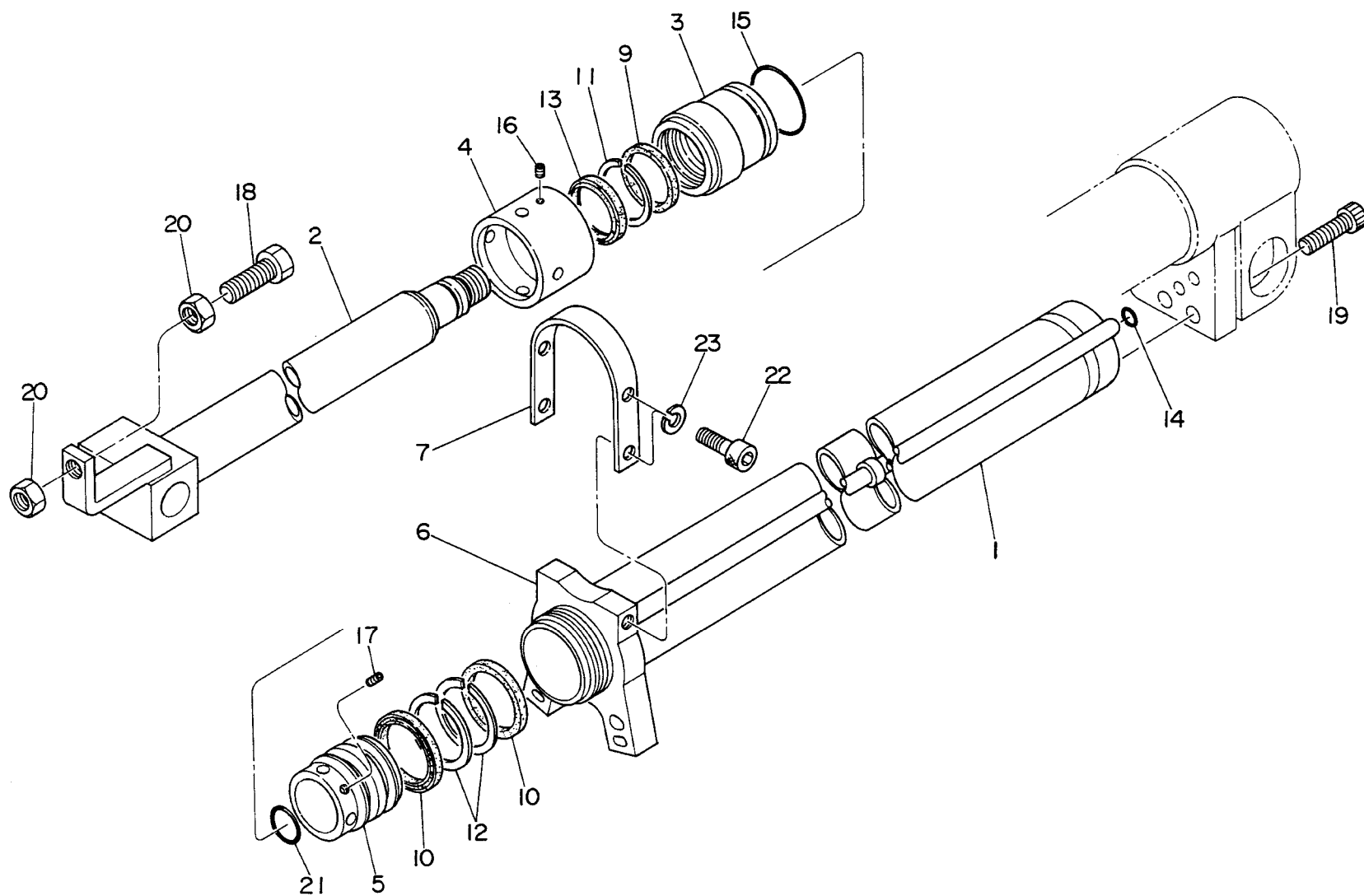
Fig. 4 EXTENSION CYLINDER (2) ASS'Y (UR333)

Fig. 4 EXTENSION CYLINDER (2) ASS'Y (UR333)

KEY No.	PARTS No.	PARTS NAME	Q t y	M A R K	SERIAL No.	NOTE	KEY No.	PARTS No.	PARTS NAME	Q t y	M A R K	SERIAL No.	NOTE
1~23	080B 17000	Extension cylinder (2) Ass'y	1 set				19	7161 12030	Bolt	3			
1	080B 17010	Tube Ass'y (1)	1				20	7211 11140	Nut	2			
2	080B 17020	Rod Ass'y (1)	1				S 21	7311 92025	Ring-"O"	1			
3	0144 15031	Gland	1				22	7161 08015	Bolt	4			
4	0805 17030	Cover-cylinder	1				23	7222 11080	Washer-spring	4			
5	080B 17030	Piston	1				S	9114 416P0	Packing set	1 set			
6	080B 17040	Bracket	1										
7	0805 17060	Band	1										
8	☆												
S 9	8230 40050	Packing	1										
S 10	8230 45055	Packing	2										
S 11	8280 40050	Ring-back up	1										
S 12	8280 45055	Ring-back up	2										
S 13	8290 40048	Seal-dust	1										
S 14	7311 91012	Ring-"O"	2										
S 15	7311 92050	Ring-"O"	1										
16	7049 06006	Screw-set	1										
17	7049 06010	Screw-set	1										
18	7114 14050	Bolt	1										

○.....New and old parts are interchangeable. ✕.....New and old parts are not interchangeable. △.....Part not for sale. D.....Disuse. Q.....Quantity

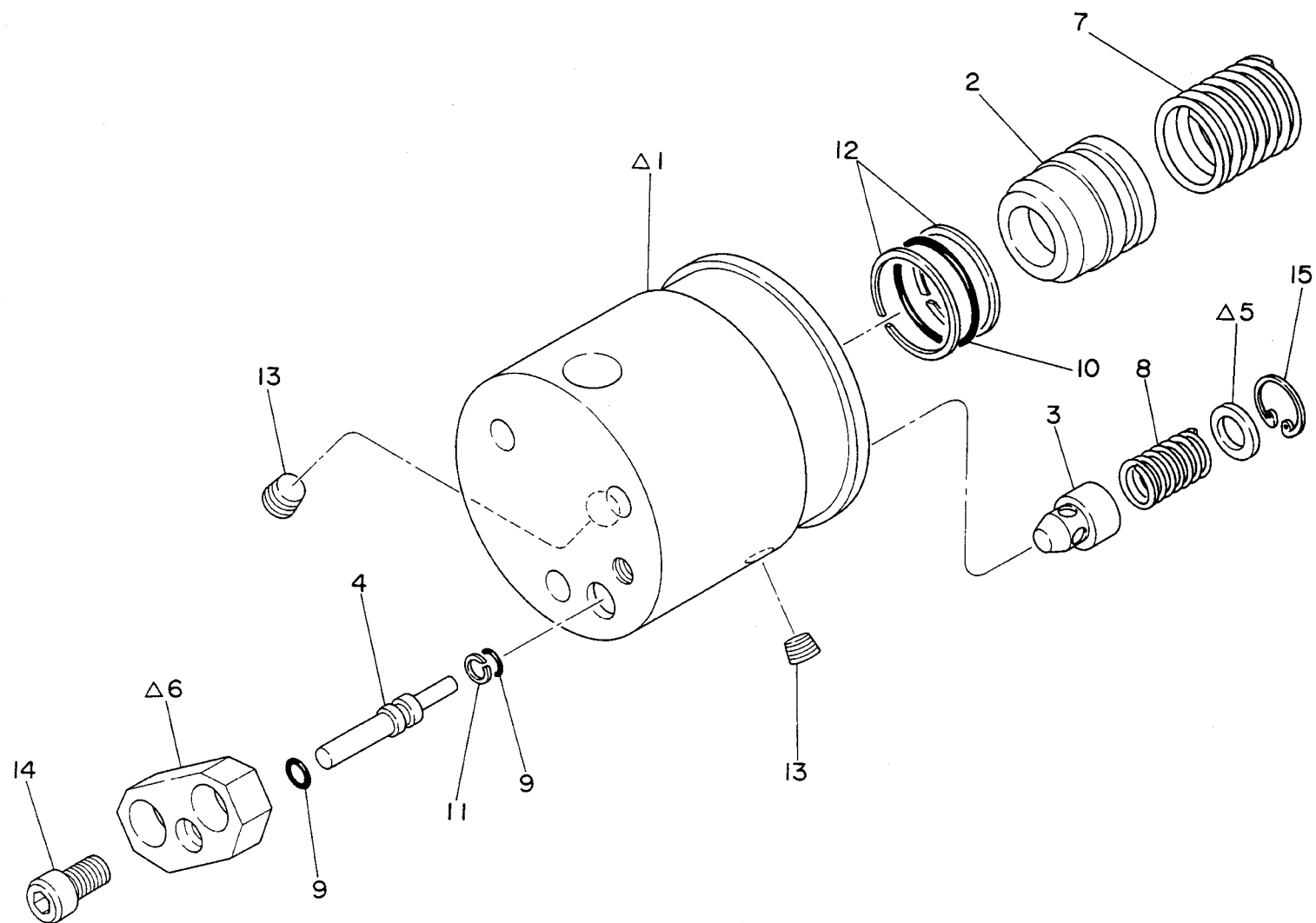
Fig. 5 SELECTOR VALVE ASS'Y (UR333)

Fig. 5 SELECTOR VALVE ASS'Y (UR333)

KEY No.	PARTS No.	PARTS NAME	Q t y	M A R K	SERIAL No.	NOTE	KEY No.	PARTS No.	PARTS NAME	Q t y	M A R K	SERIAL No.	NOTE
1~15	0805 15071	Selector valve Ass'y	1	set									
1	☆	Body	1	△									
2	K815 07020	Check valve (1)	1										
3	V314 09031	Check valve (2)	1										
4	K815 07070	Spool	1										
5	☆	Collar	1	△									
6	☆	Cover	1	△									
7	K815 07050	Spring (1)	1										
8	K815 07060	Spring (2)	1										
9	7311 71006	Ring-"O"	2										
10	7701 70033	Ring-"O"	1										
11	7321 21006	Ring-back up	1										
12	7701 80040	Ring-back up	2										
13	7287 20100	Plug	2										
14	7161 08015	Bolt	1										
15	7241 20140	Ring-snap	1										

Q.....New and old parts are interchangeable. △.....New and old parts are not interchangeable. △.....Part not for sale. D.....Disuse. Q.....Quantity

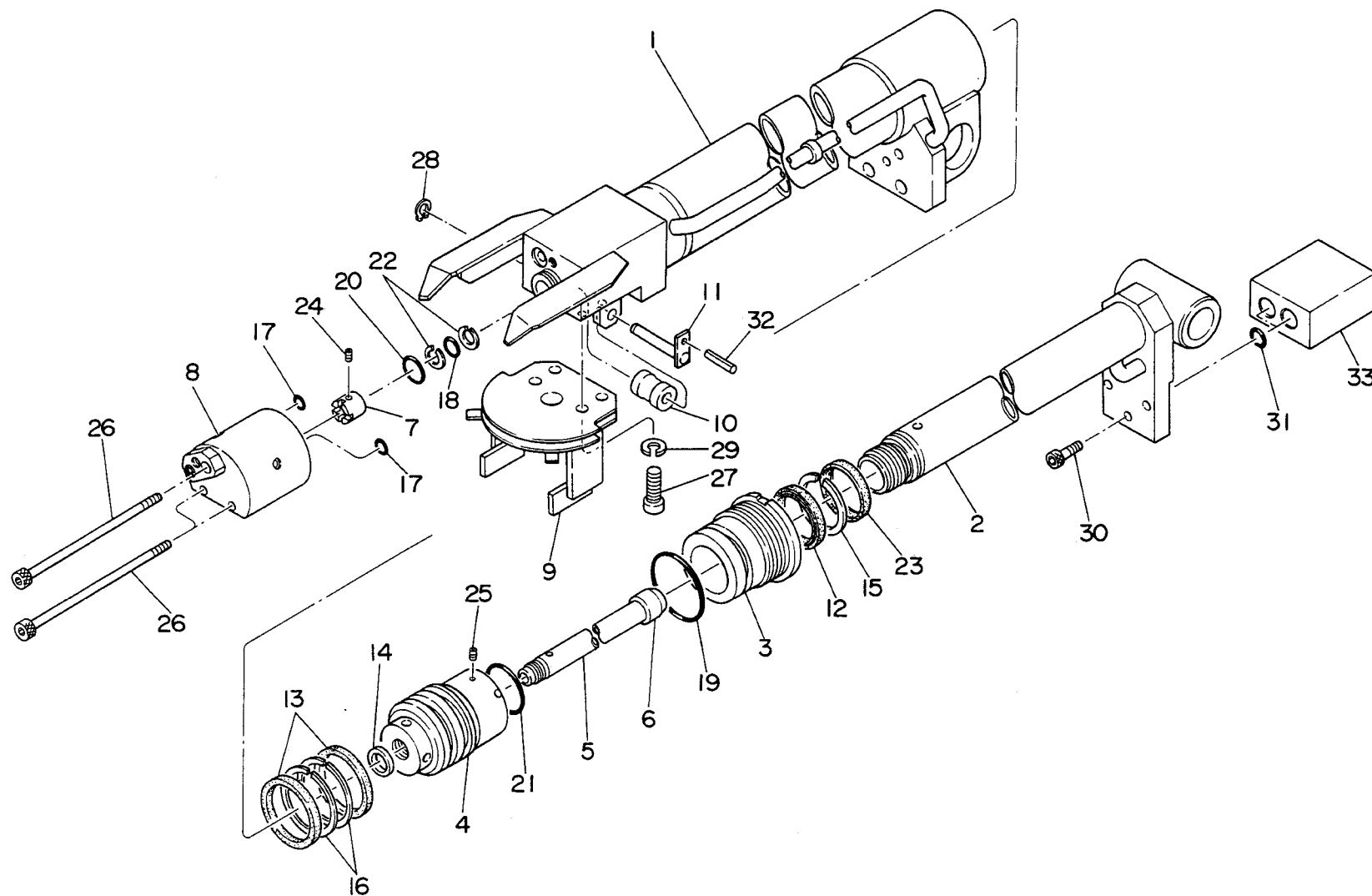
Fig. 6 EXTENSION CYLINDER (1) ASS'Y (UR334)

Fig. 6 EXTENSION CYLINDER (1) ASS'Y (UR334)

KEY No.	PARTS No.	PARTS NAME	Q t y	M A R K	SERIAL No.	NOTE	KEY No.	PARTS No.	PARTS NAME	Q t y	M A R K	SERIAL No.	NOTE
1~32	080C 15000	Extension cylinder (1) Ass'y	1 set				S 19	7311 91058	Ring-"O"	1			
1	080C 15010	Tube Ass'y (1)	1				S 20	7311 91026	Ring-"O"	1			
2	080B 15020	Rod Ass'y (1)	1				S 21	7311 92045	Ring-"O"	1			
3	0805 15030	Gland	1				S 22	7321 21018	Ring-back up	2			
4	0805 15040	Piston	1				S 23	8290 45053	Seal-dust	1			
5	080C 15020	Pipe-slide	1				24	7049 06006	Screw-set	1			
6	0800 14050	Stopper	1				25	7049 06008	Screw-set	1			
7	0805 15060	Nut	1				26	7161 08100	Bolt	3			
8	0806 15031	Selector valve Ass'y SEE Fig. 8	1				27	7161 10025	Bolt	4			
9	0806 15040	Sheave	1				28	7241 10100	Ring-snap	1			
10	0190 15131	Roller	1				29	7222 11100	Washer-spring	4			
11	0806 15050	Pin (10)	1				30	7161 08030	Bolt	3			
S 12	8230 45055	Packing	1				S 31	7311 91016	Ring-"O"	2			
S 13	8230 55065	Packing	2				32	7234 03012	Pin-spring	1			
S 14	8380 18024	Packing	1				33	6014 73000	Extension cylinder holding valve Ass'y SEE Fig. HP3	1			CB-03ET
S 15	8280 45055	Ring-back up	1				S	9180 615P0	Packing set	1 set			
S 16	8280 55065	Ring-back up	2										
S 17	7311 91015	Ring-"O"	2										
S 18	7311 71018	Ring-"O"	1										

Q.....New and old parts are interchangeable. X.....New and old parts are not interchangeable. Δ.....Part not for sale. D.....Disuse. Q.....Quantity

Fig. 7 EXTENSION CYLINDER (2) ASS'Y (UR334)

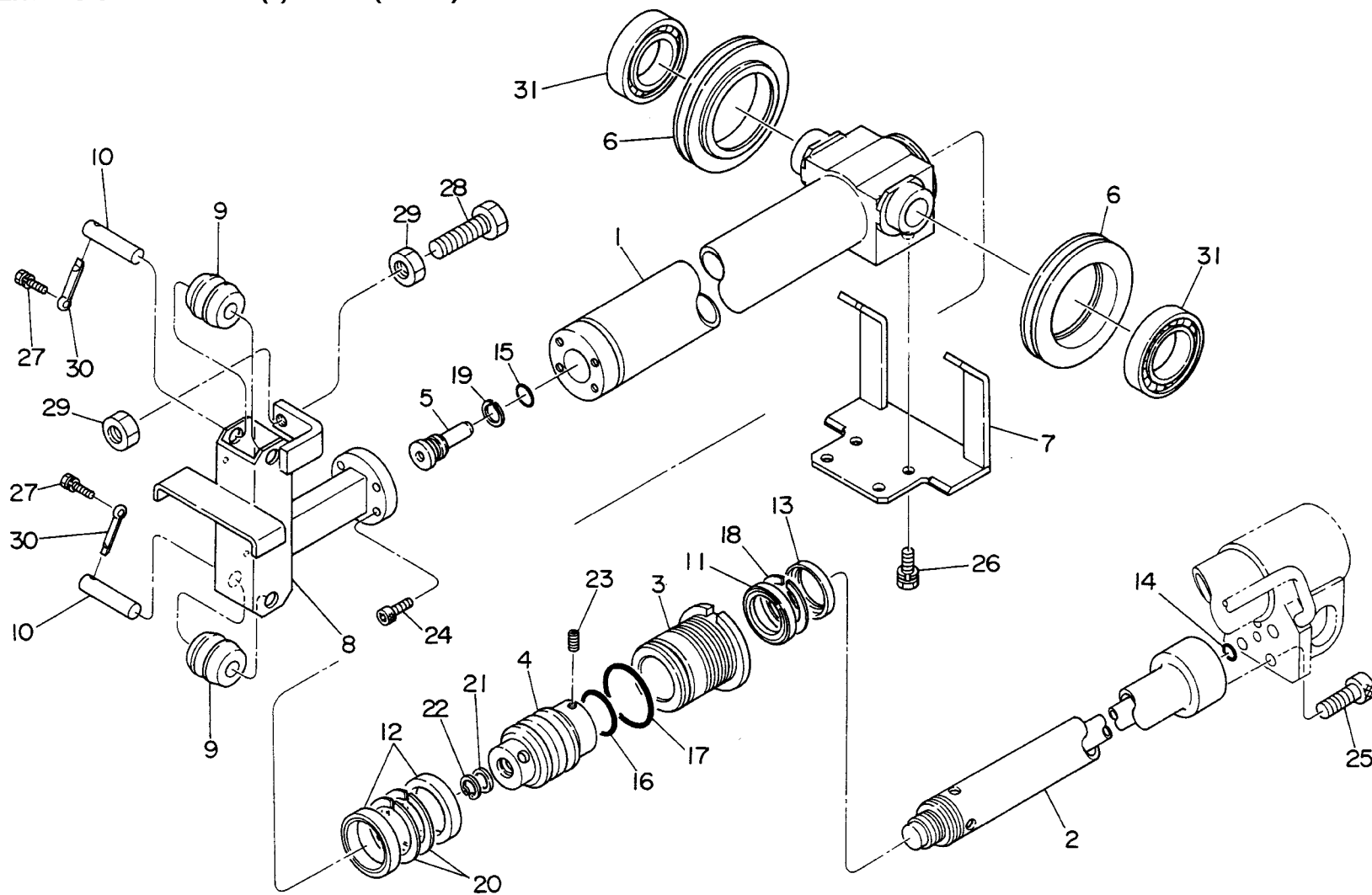


Fig. 7 EXTENSION CYLINDER (2) ASS'Y (UR334)

KEY No.	PARTS No.	PARTS NAME	Q t y	M A R K	SERIAL No.	NOTE	KEY No.	PARTS No.	PARTS NAME	Q t y	M A R K	SERIAL No.	NOTE
1~31	080C 17000	Extension cylinder (2) Ass'y	1 set				S 19	7321 21016	Ring-back up	1			
1	080C 17010	Tube Ass'y (1)	1				S 20	8330 52065	Ring-back up	2			
2	080C 17020	Rod Ass'y (1)	1				S 21	8340 12015	Seal-cushion	1			
3	0806 17030	Gland	1				22	7241 60160	Ring-snap	1			
4	080C 17030	Piston	1				23	7049 06008	Screw-set	1			
5	0193 16050	Plunger	1				24	7161 08020	Bolt	4			
6	0806 17060	Sheave (4.5 × 120)	2				25	7161 12035	Bolt	4			
7	080C 17040	Cover	1				26	7141 08015	Bolt & Washer	4			
8	080C 17050	Bracket	1				27	7142 05012	Bolt & Washer	2			
9	080C 17060	Roller	2				28	7114 14050	Bolt	1			
10	080C 17070	Pin (15)	2				29	7211 11140	Nut	2			
S 11	8230 45055	Packing	1				30	7231 06030	Pin-split	2			
S 12	8320 52065	Packing	2				31	7260 60102	Bearing	2			
S 13	8290 45053	Seal-dust	1				S	9180 C17P0	Packing set	1 set			
S 14	7311 91012	Ring-“O”	2										
S 15	7311 91016	Ring-“O”	1										
S 16	7311 92045	Ring-“O”	1										
S 17	7311 92060	Ring-“O”	1										
S 18	8280 45055	Ring-back up	1										

Q.....New and old parts are interchangeable. X.....New and old parts are not interchangeable. Δ.....Part not for sale. D.....Disuse. Q.....Quantity

Fig. 8 SELECTOR VALVE ASS'Y (UR334)

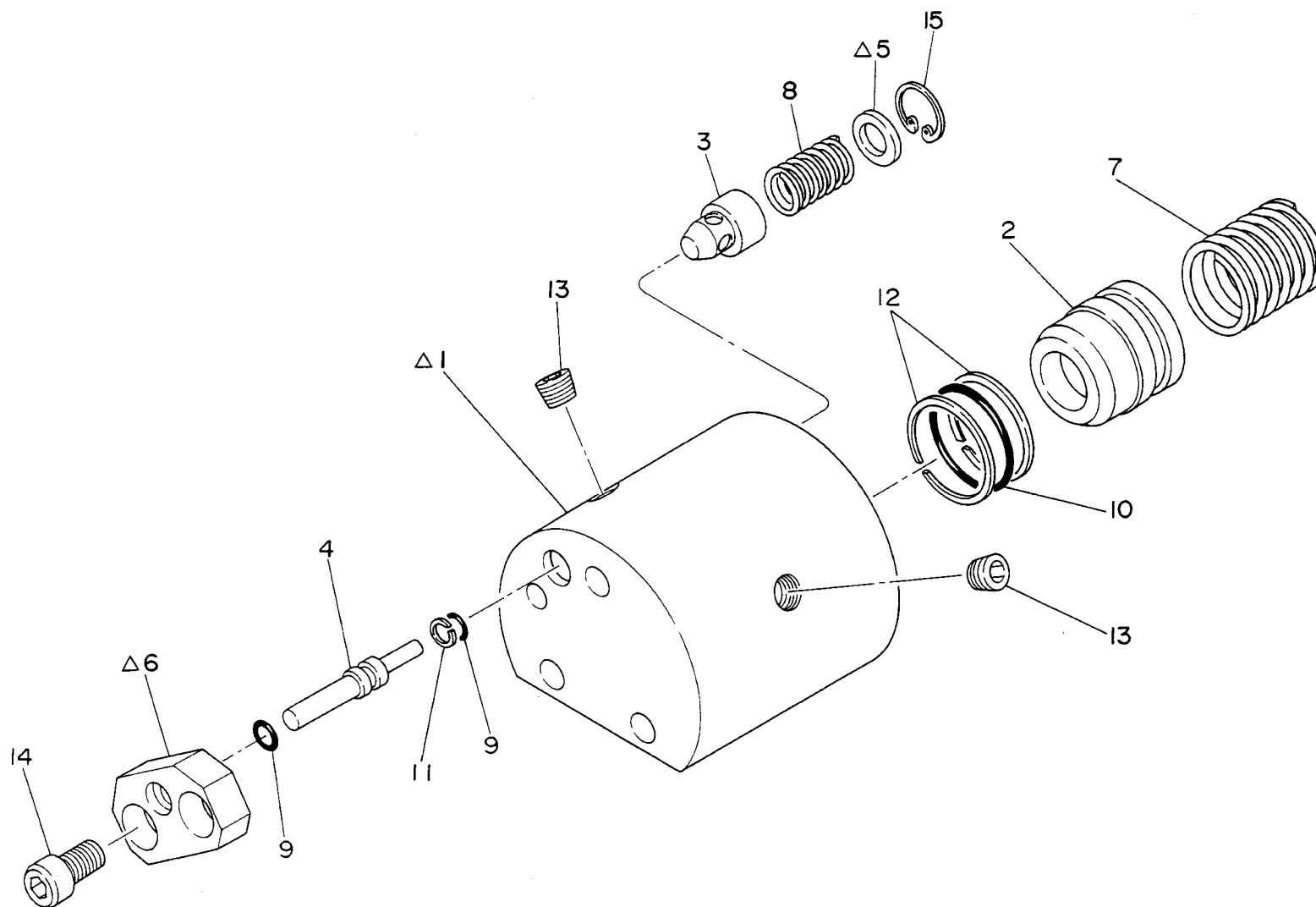


Fig. 8 SELECTOR VALVE ASS'Y (UR334)

KEY No.	PARTS No.	PARTS NAME	Q t y	M A R K	SERIAL No.	NOTE
1~15	0806 15031	Selector valve Ass'y	1 set			
1	☆	Body	1	△		
2	K815 07020	Check valve (1)	1			
3	V314 09031	Check valve (2)	1			
4	K815 07070	Spool	1			
5	☆	Collar	1	△		
6	☆	Cover	1	△		
7	K815 07050	Spring (1)	1			
8	K815 07060	Spring (2)	1			
9	7311 71006	Ring-"O"	2			
10	7701 70033	Ring-"O"	1			
11	7321 21006	Ring-back up	1			
12	7701 80040	Ring-back up	2			
13	7287 20100	Plug	2			
14	7161 08015	Bolt	1			
15	7241 20140	Ring-snap	1			

Q.....New and old parts are interchangeable. ☆.....New and old parts are not interchangeable. △.....Part not for sale. D.....Disuse. Q.....Quantity 33

Fig. 9 HOOK ASS'Y

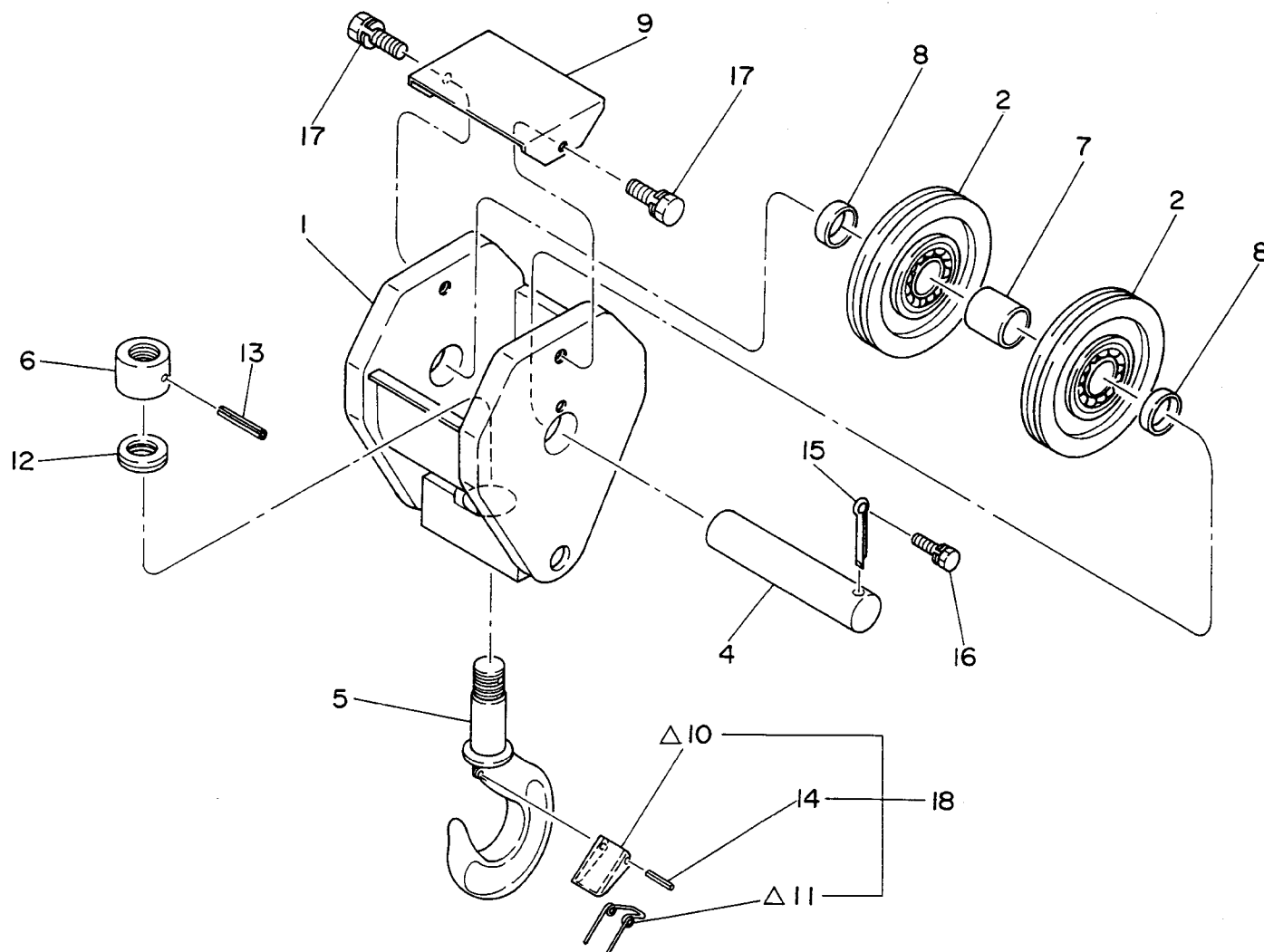


Fig. 9 HOOK ASS'Y

KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE	KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE
			333	334							333	334			
1~18	0805 35000	Hook Ass'y	1	set				A14	7234 07055	Pin-spring	1	1			
1~18	0806 35000	Hook Ass'y		1	set			15	7231 10045	Pin-split	1	1			
1	0805 35012	Side plate Ass'y	1					16	7141 08020	Bolt & Washer	1	1			
	0806 35011	Side plate Ass'y		1				17	7141 10020	Bolt & Washer	2	2			
2	K821 00810	Sheave Ass'y	2	set				A18	9110 00022	Stopper Ass'y	1	1	set	set	
	K935 00810	Sheave Ass'y		2	set										
3	☆														
4	0805 35020	Pin (35)	1												
	0806 35030	Pin (35)		1											
5	0143 32071	Hook	1	1											
6	0138 32070	Nut	1	1											
7	0805 35030	Collar	1	1											
8	0805 35040	Collar	2	2											
9	0805 35050	Stopper	1												
	0806 35040	Stopper		1											
A10	☆	Stopper	1	1	△										
A11	☆	Spring	1	1	△										
12	7602 10075	Thrust bearing	1	1											
13	7234 05045	Pin-spring	1	1											

Q.....New and old parts are interchangeable. X.....New and old parts are not interchangeable. △.....Part not for sale. D.....Disuse. Q.....Quantity

Fig. 10 SAFETY DEVICE ASS'Y

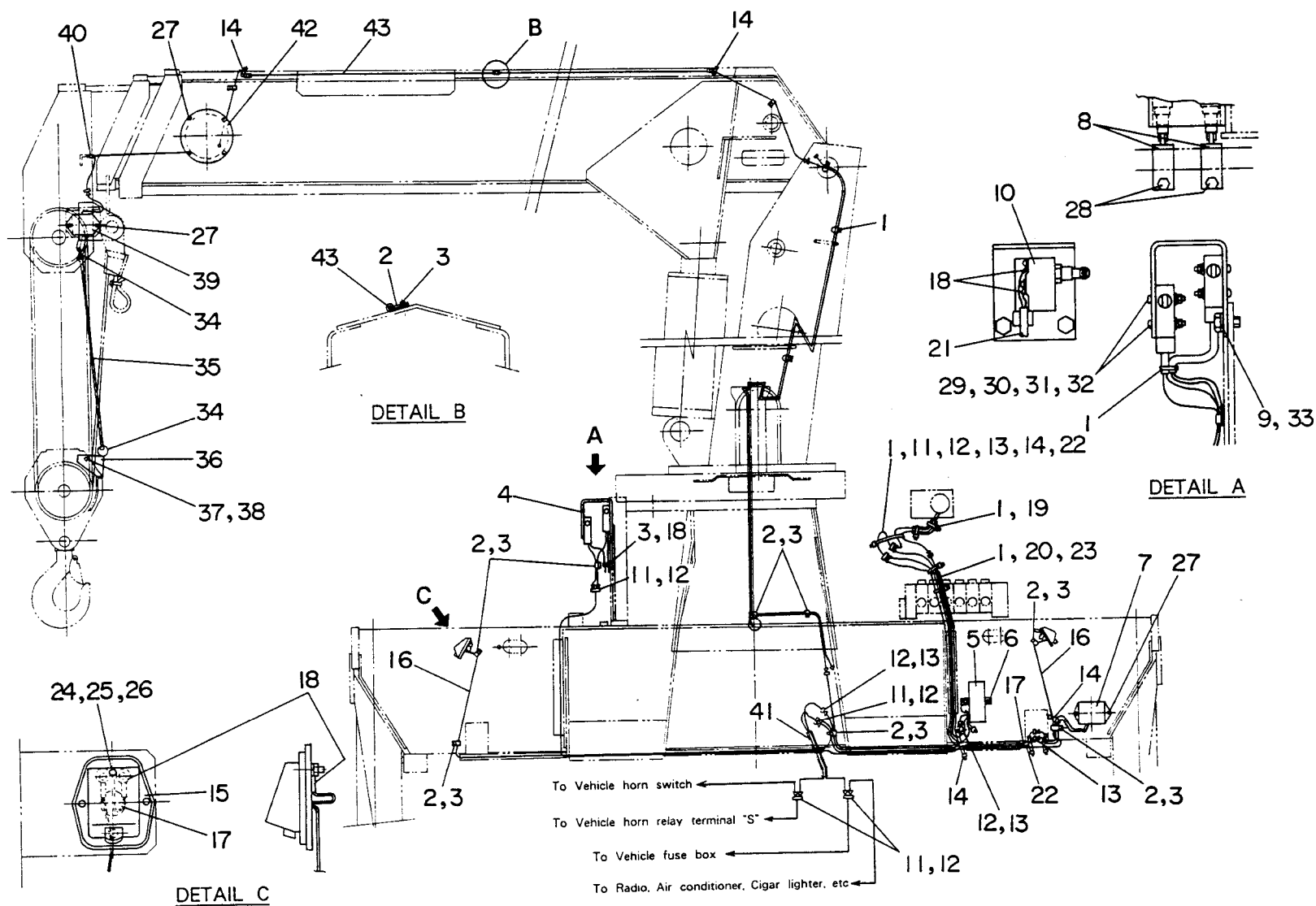


Fig. 10 SAFETY DEVICE ASS'Y

KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE
			333	334			
1~43	☆	Safety device Ass'y	1 set	1 set	△		
1	7505 16001	Band-wire	9	9			
2	7505 23002	Clump-wire	15	15			
3	7601 10059	Tapping screw	15	15			
4	08A4 96010	Bracket	1	1			
5	0891 96021	Relay box Ass'y	1	1			
6	7142 06010	Bolt & Washer	2	2			
7	6031 39000	Outrigger warning alarm	1	1			
8	08A4 96020	Bracket	2	2			
9	7221 12100	Washer-plain	2	2			
10	7503 06010	Switch-limit	2	2			
11	7505 01004	Connector	6	6			
12	7505 01005	Connector	15	15			
13	7505 01006	Connector	5	5			
14	7505 16002	Band-wire	9	9			
15	0111 89011	Warning buzzer switch	2	2			
16	7506 02072	Cord-vinyl	3m	3m			
17	7506 02004	Cord-vinyl	2m	2m			
18	7505 09005	Terminal	12	12			
19	7505 13006	Tube-wire	0.5 m	0.5 m			
20	7505 13004	Tube-wire	0.5 m	0.5 m			
21	7506 04007	Cable-cab tire	0.5 m	0.5 m			
22	7506 02019	Cord-vinyl	3.5 m	3.5 m			
23	7506 02009	Cord-vinyl	1.2 m	1.2 m			
24	7015 03015	Screw-machine	4	4			
25	7211 11030	Nut	4	4			
26	7223 12030	Washer-tooth	4	4			
27	7142 06012	Bolt & Washer	8	8			
28	7142 06035	Bolt & Washer	2	2			
29	7012 04035	Screw-machine	4	4			
30	7221 12040	Washer-plain	4	4			
31	7222 11040	Washer-spring	4	4			
32	7211 11040	Nut	4	4			
33	7141 10015	Bolt & Washer	2	2			
A34	☆	Ring	2	2	△		
A35	☆	Rope-wire	1	1	△		
A36	☆	Weight	1	1	△		
A37	☆	Bolt	1	1	△		

Q.....New and old parts are interchangeable. *.....New and old parts are not interchangeable. △.....Part not for sale. D.....Disuse. Q.....Quantity

Fig. 10 SAFETY DEVICE ASS'Y

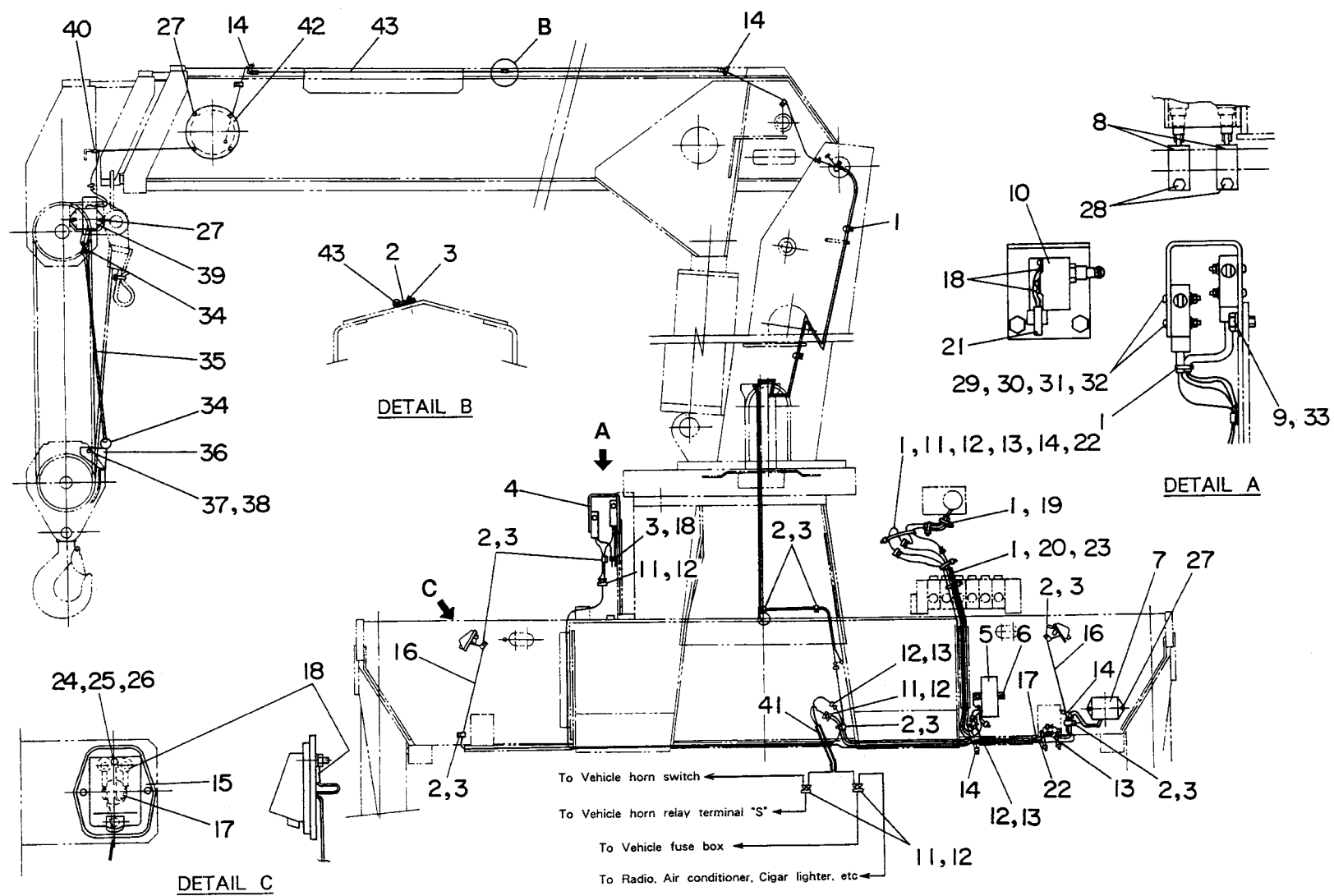


Fig. 10 SAFETY DEVICE ASS'Y

KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE	KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE
			333	334							333	334			
A38	☆	Nut	2	2	△										
39	6031 40000	Anti-two-block (detector)	1	1											
40	7604 52011	Grommet	1	1											
41	7506 02073	Cord-vinyl	4m	4m											
42	7505 18009	Reel-cord	1												
	7505 18011	Reel-cord		1											
42-1	7505 18010	Cord-main	1												
	7505 18012	Cord-main		1											
42-2	7505 18007	Point Ass'y	1	1											
43	F391 00810	Vinyl Cord Ass'y	1	1											
A	N191 01810	Weight Ass'y	1 set	1 set			Incl. 34~38								

○.....New and old parts are interchangeable. ✕.....New and old parts are not interchangeable. △.....Part not for sale. D.....Disuse. Q.....Quantity

Fig. 11 HYDRAULIC DRIVING DEVICE

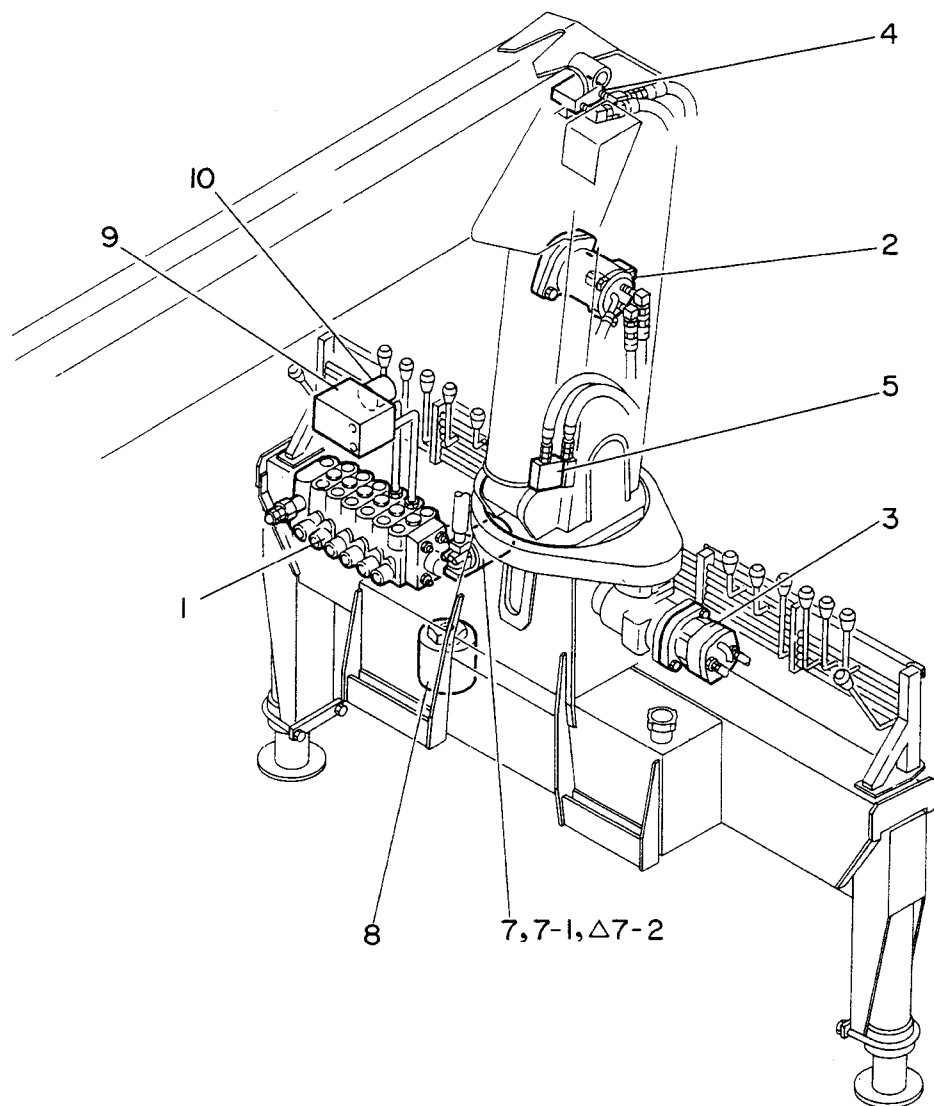


Fig. 11 HYDRAULIC DRIVING DEVICE

KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE	KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE
			333	334							333	334			
1~10	08A4 61000	Hydraulic driving device	1 set	1 set	△										
1	6019 03000	Control valve Ass'y SEE Fig. HP1	1	1			MV-30A								
2	7403 70001	Hydraulic motor (Hoist)	1	1			A10F25								
2-1	9110 00149	Seal set	1	1											
3	7403 20020	Hydraulic motor (Swing)	1	1			APSM40-40								
3-1	9110 00150	Seal set	1	1											
4	6014 73000	Extension cylinder holding valve Ass'y SEE Fig. HP3	1	1			CB-03ET								
5	6014 74000	Boom lift cylinder holding valve Ass'y SEE Fig. HP4	1	1			CB-03ED								
6	☆														
7	7405 80600	Filter-return SEE Fig. HP5	1	1											
7-1	7405 80204	Filter-cartridge	(1)	(1)											
7-2	7405 80201	Head	(1)	(1)	△										
8	7405 82023	Filter-suction	1	1											
9	6017 02000	Pilot check valve Ass'y SEE Fig. HP7	1	1			CP-03W								
10	7401 92030	Valve-solenoid	1	1											

Q.....New and old parts are interchangeable. △.....New and old parts are not interchangeable. △.....Part not for sale. D.....Disuse. Q.....Quantity

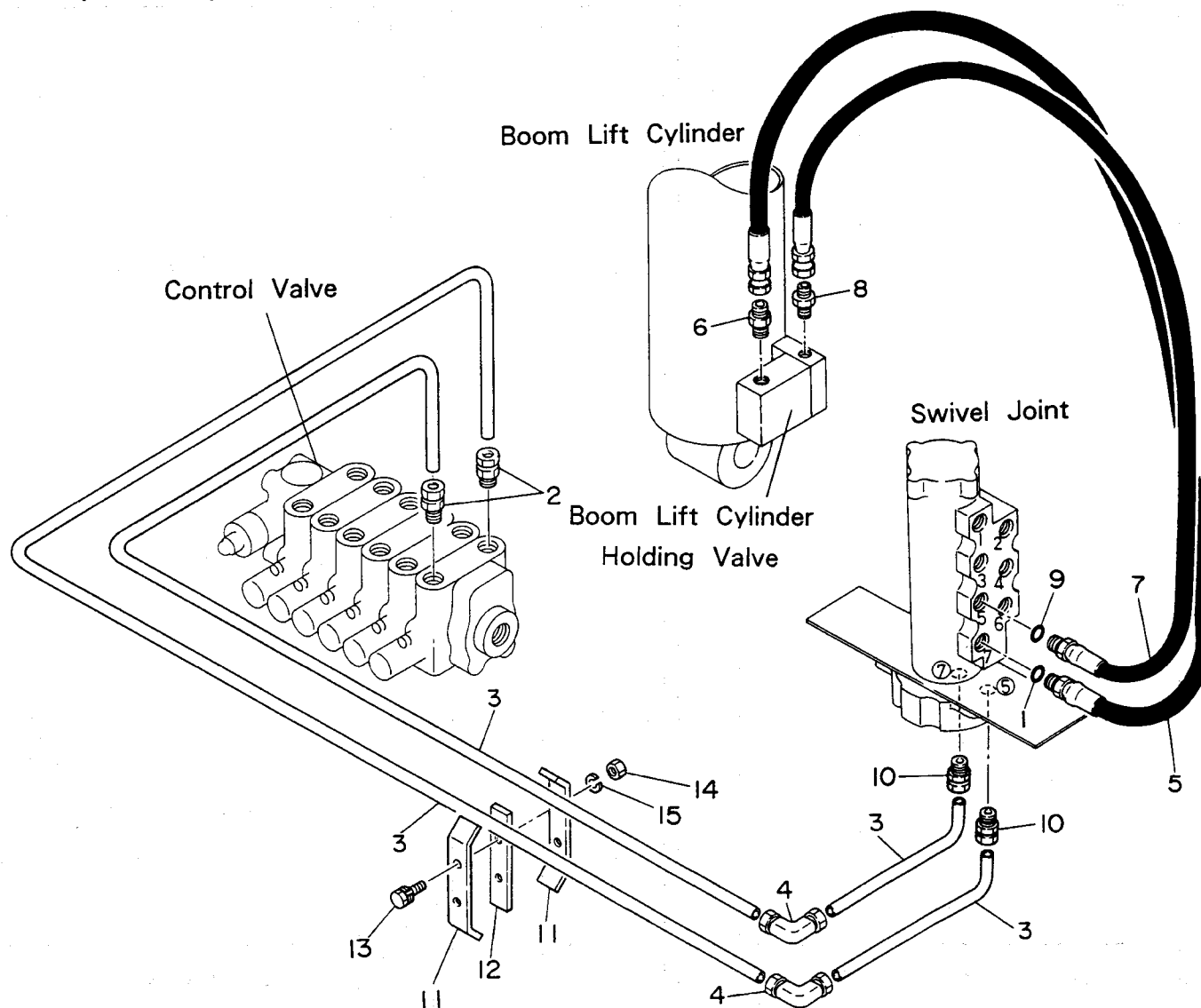
Fig. 12-1 PIPING (Boom lift cylinder)

Fig. 12-1 PIPING (Boom lift cylinder)

KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE	KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE
			333	334							333	334			
1~15	☆	Piping (Boom lift cylinder)	1 set	1 set	△										
1	7311 91014	Ring-"O"	1	1											
2	7285 71203	Connector	2	2											
3	77P4 12015	Pipe	ℓ	ℓ			φ12×t1.5								
4	7281 51200	Elbow	2	2											
5	78F5 03070	Hose-pressure, nylon	1	1											
6	770A 02J06	Adapter (M) (M)	1	1											
7	78F5 02060	Hose-pressure, nylon	1	1											
8	770A 02J04	Adapter (M) (M)	1	1											
9	7311 91011	Ring-"O"	1	1											
10	728S 57041	Connector	2	2											
11	0885 65010	Clamp	2	2											
12	0885 65020	Bracket	1	1											
13	7111 08065	Bolt	2	2											
14	7222 11080	Spring washer	2	2											
15	7211 11080	Nut	2	2											

Q.....New and old parts are interchangeable. X.....New and old parts are not interchangeable. △.....Part not for sale. D.....Disuse. Q.....Quantity

Fig. 12-2 PIPING (Hoist motor)

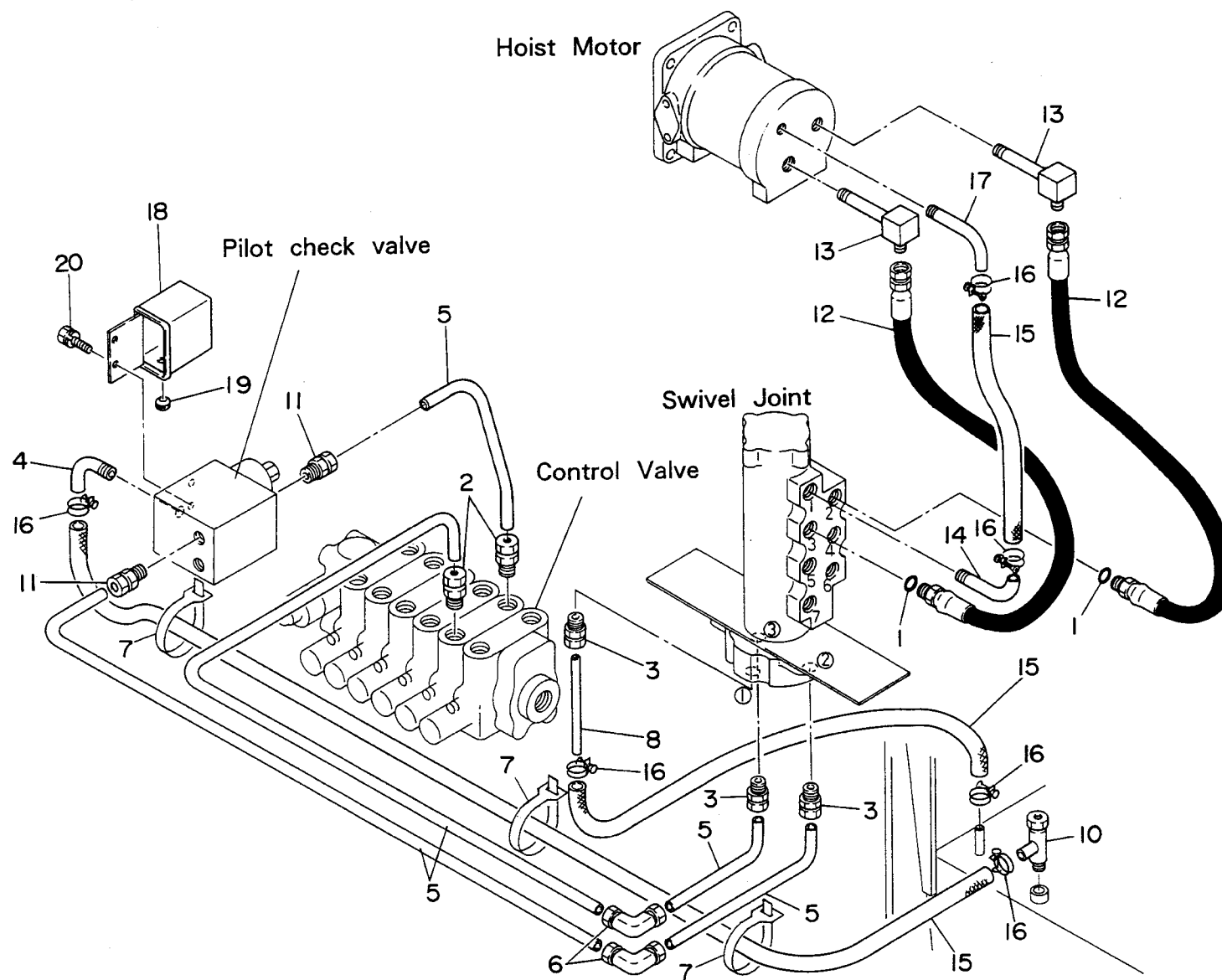


Fig. 12-2 PIPING (Hoist motor)

KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE
			333	334			
1~20	☆	Piping (Hoist motor)	1 set	1 set	△		
1	7311 91014	Ring-"O"	2	2			
2	7285 71203	Connector	2	2			
3	728S 57041	Connector	3	3			
4	0800 62030	Joint-hose	1	1			
5	77P4 12015	Pipe	ℓ	ℓ			φ 12 × t1.5
6	7281 51200	Elbow	2	2			
7	7505 16001	Band-wire	3	3			
8	77P4 10010	Pipe	ℓ	ℓ			φ 10 × t1.0
9	☆						
10	01S0 73020	Joint	1	1			
11	7280 51203	Connector (M)	2	2			
12	7815 03057	Hose-pressure	2	2			
13	7702 90038	Joint	2	2			
14	0143 62022	Joint-hose	1	1			
15	77V3 12000	Hose-vinyl	2	2			φ 12
16	7600 00867	Band-hose	6	6			
17	0182 62050	Joint-hose	1	1			
18	6041 12010	Cover	1	1			

KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE
			333	334			
19	7505 10013	Grommet	1	1			
20	7142 06012	Bolt & Washer	2	2			

☆.....New and old parts are interchangeable. *.....New and old parts are not interchangeable. △.....Part not for sale. D.....Disuse. Q.....Quantity

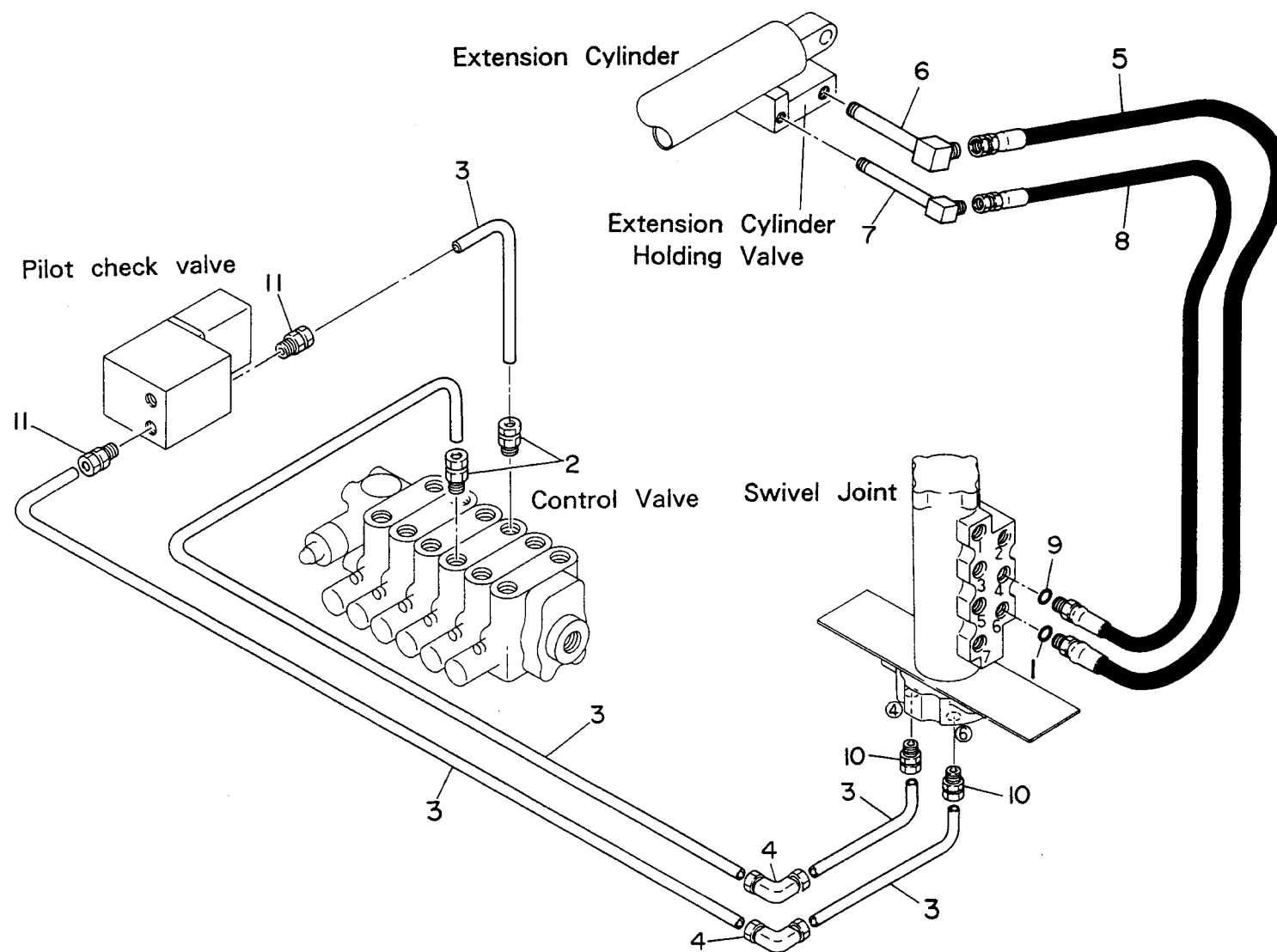
Fig. 12-3 PIPING (Extension cylinder)

Fig. 12-3 PIPING (Extension cylinder)

KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE	KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE
			333	334							333	334			
1~11	☆	Piping (Extension cylinder)	1 set	1 set	△										
1	7311 91014	Ring-"O"	1	1											
2	7285 71203	Connector	2	2											
3	77P4 12015	Pipe	2	2			φ12×t1.5								
4	7281 51200	Elbow	2	2											
5	78F5 03132	Hose-pressure, nylon	1	1											
6	7702 90040	Joint	1	1											
7	7702 90039	Joint	1	1											
8	7865 02130	Hose-pressure, nylon	1	1											
9	7311 91011	Ring-"O"	1	1											
10	728S 57041	Connector	2	2											
11	7280 51203	Connector (M)	2	2											

Q.....New and old parts are interchangeable. X.....New and old parts are not interchangeable. △.....Part not for sale. D.....Disuse. Q.....Quantity

Fig. 12-4 PIPING (Swing motor)

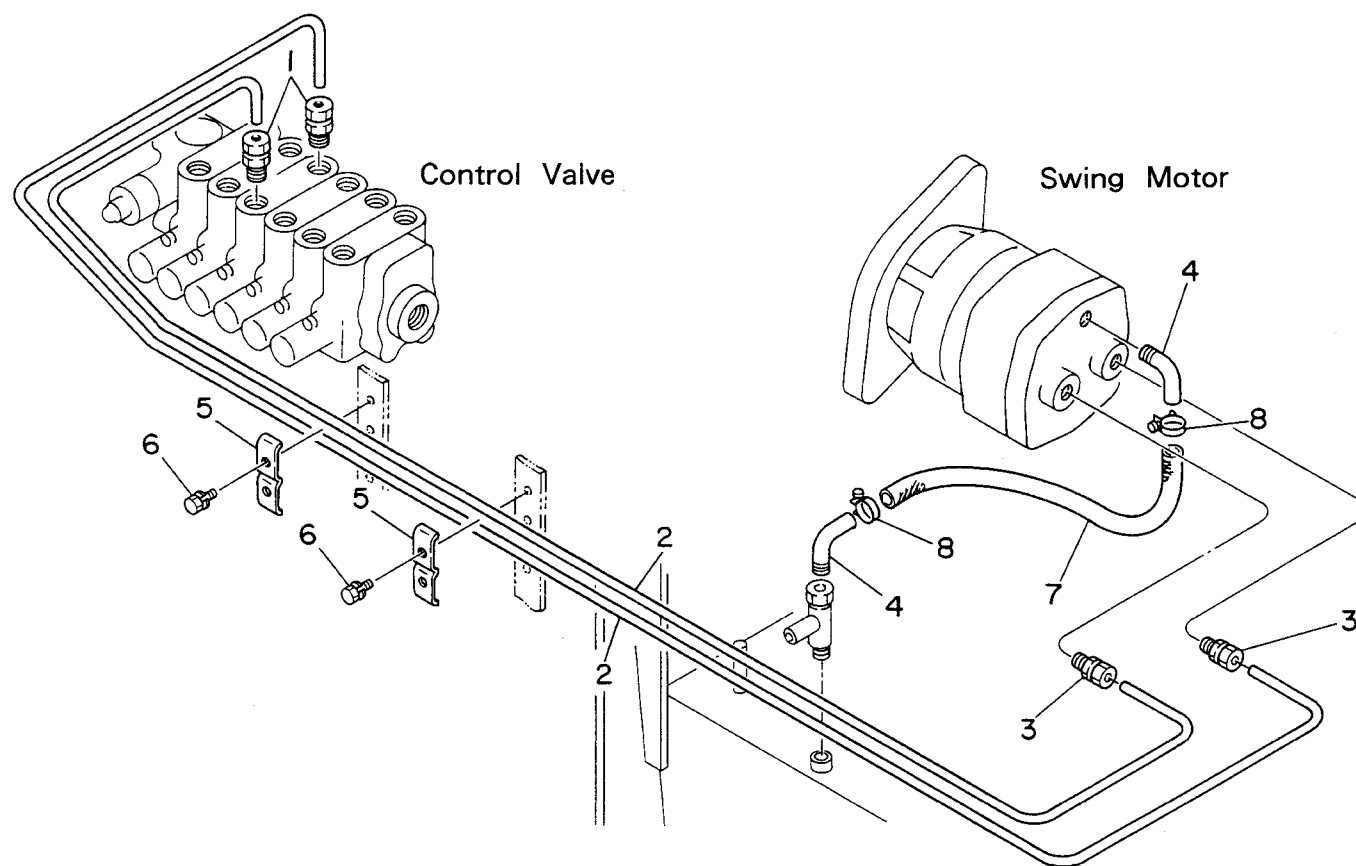


Fig. 12-4 PIPING (Swing motor)

KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE	KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE
			333	334							333	334			
1~8	☆	Piping (Swing motor)	1 set	1 set	△										
1	7285 71003	Connector	2	2											
2	77P4 10010	Pipe	ℓ	ℓ			φ10×t1.0								
3	7280 51003	Connector (M)	2	2											
4	0800 62030	Joint-hose	2	2											
5	0805 65030	Clump-pipe	2	2											
6	7141 10025	Bolt & Washer	4	4											
7	77V3 12000	Hose-vinyl	1	1											
8	7600 00867	Band-hose	2	2											

Q.....New and old parts are interchangeable. X.....New and old parts are not interchangeable. △.....Part not for sale. D.....Disuse. Q.....Quantity

Fig. 12-5 PIPING (Outrigger)

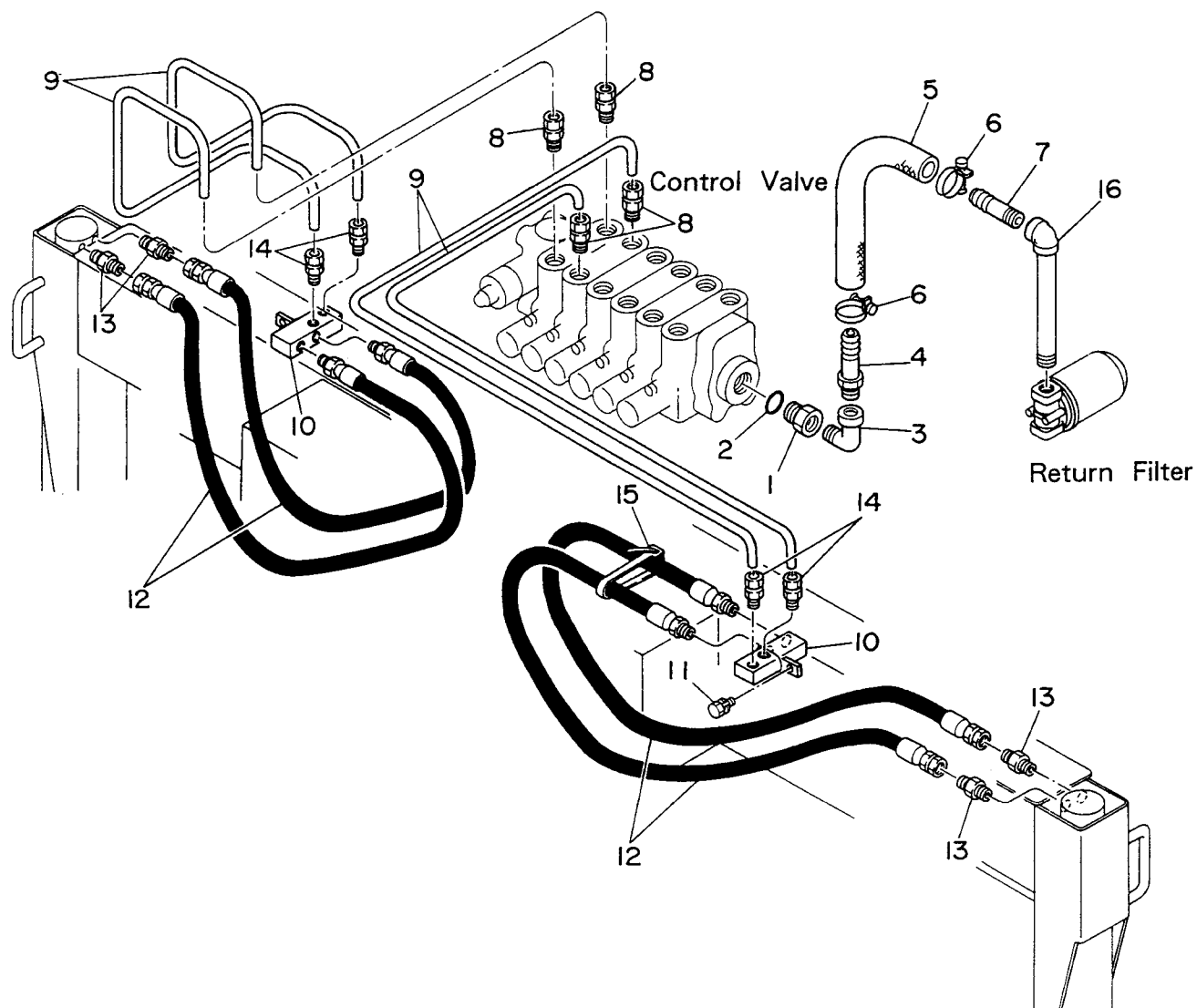


Fig. 12-5 PIPING (Outrigger)

KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE	KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE
			333	334							333	334			
1~16	☆	Piping (Outrigger)	1 set	1 set	△										
1	0223 62120	Bushing	1	1											
2	7311 91024	Ring-"O"	1	1											
3	7286 60600	Elbow (F) (M)	1	1											
4	6020 06070	Joint-hose	1	1											
5	77H1 32000	Hose-rubber	0.45 m	0.45 m											
6	7600 00819	Band-hose	2	2											
7	0430 62150	Joint-hose	1	1											
8	7285 71003	Connector	4	4											
9	77P4 10010	Pipe	ℓ	ℓ			φ10×t1.0								
10	0143 62013	Block-joint	2	2											
11	7141 10020	Bolt & Washer	2	2											
12	77F5 02172	Hose-pressure nylon	4	4											
13	770A 02J04	Adapter (M) (M)	4	4											
14	7280 51002	Connector (M)	4	4											
15	7505 16001	Band-wire	4	4											
16	08A4 65010	Joint	1	1											

Q.....New and old parts are interchangeable. X.....New and old parts are not interchangeable. △.....Part not for sale. D.....Disuse. Q.....Quantity

Fig. 13 COLUMN ASS'Y

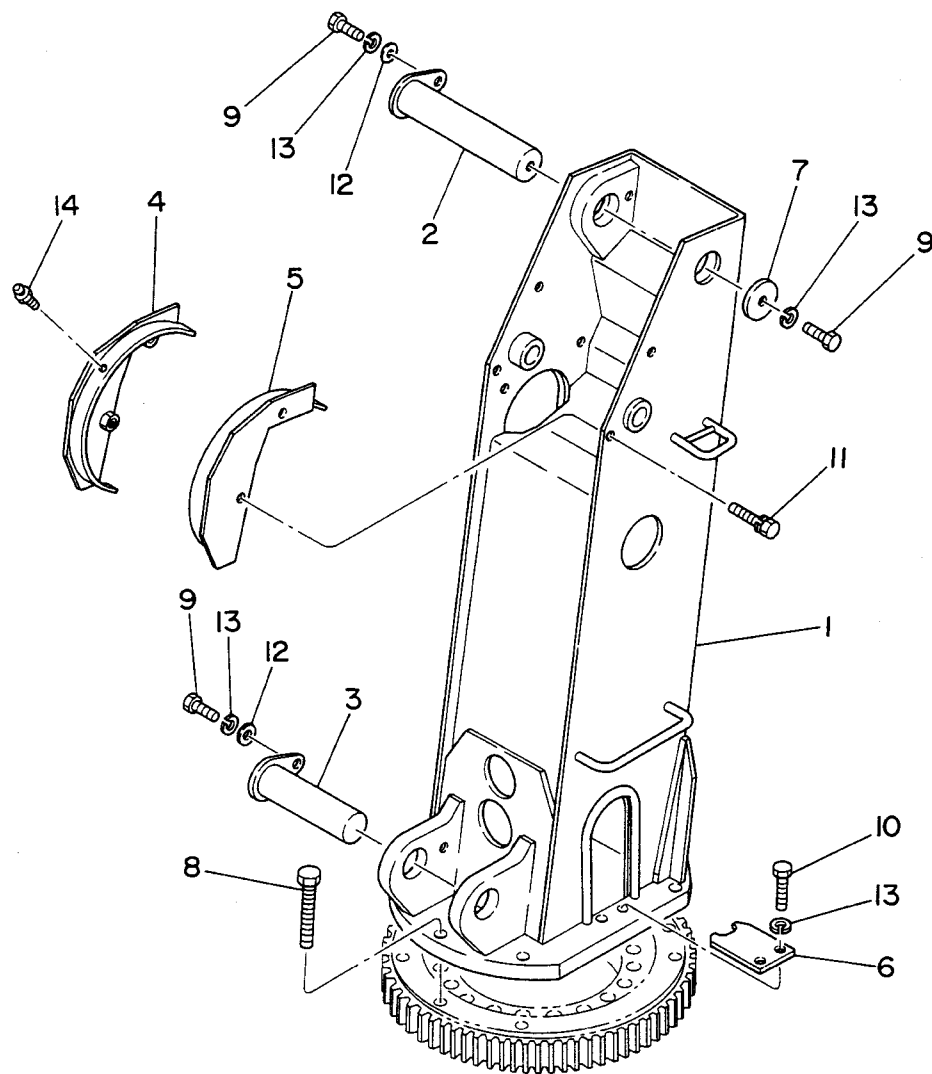


Fig. 13 COLUMN ASS'Y

KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE	KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE
			333	334							333	334			
1~14	0891 51000	Column Ass'y	1 set	1 set	△										
1	0891 51010	Column	1	1											
2	0805 51021	Pin (50)	1	1											
3	0143 51130	Pin	1	1											
4	0882 51040	Cover (1)	1	1											
5	0882 51020	Cover (2)	1	1											
6	0805 51050	Stopper	1	1											
7	0805 51060	Plate	1	1											
8	0882 51030	Bolt	11	11											
9	7119 12025	Bolt	3	3											
10	7111 12020	Bolt	2	2											
11	7141 10016	Bolt & Washer	4	4											
12	7221 12120	Washer-plain	2	2											
13	7222 11120	Washer-spring	5	5											
14	7243 34000	Nipple-grease	1	1											

Q.....New and old parts are interchangeable. X.....New and old parts are not interchangeable. △.....Part not for sale. D.....Disuse. Q.....Quantity

Fig. 14 BASE ASS'Y

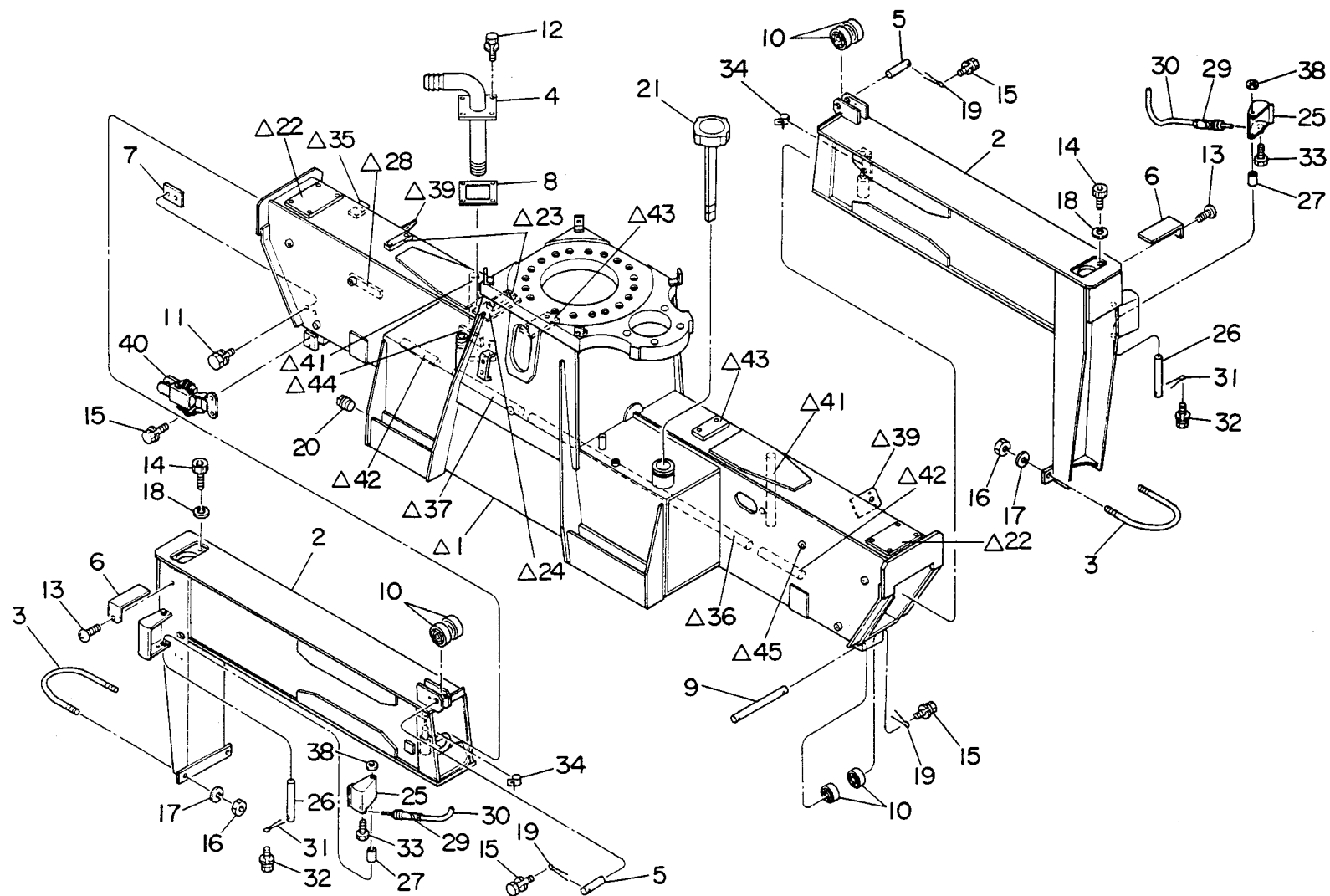


Fig. 14 BASE ASS'Y

KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE	KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE
			333	334							333	334			
1~45	08A4 55000	Base Ass'y	1 set	1 set	△			19	7231 06025	Pin-split	4	4			
1	088F 55011	Base	1	1				20	7252 60600	Plug	1	1			
2	080B 55161	Box-inner	2	2				21	7703 30019	Breather	1	1			
3	0143 55040	Band	2	2				22	☆	Plate (1)	2	2	△		
4	080B 55030	Pipe-suction	1	1				23	☆	Plate (2)	2	2	△		
5	0825 27020	Pin (15)	2	2				24	☆	Plate (3)	1	1	△		
6	080B 55140	Cover	2	2				25	080B 55090	Lever	2	2			
7	0143 59020	Stopper	2	2				26	0882 55080	Pin (8)	2	2			
8	0805 55061	Packing	1	1				27	0882 55091	Collar	2	2			
9	0137 55090	Pin (1)	2	2				28	☆	Bracket	1	1	△		
10	7602 10079	Bearing	8	8				29	080B 55050	Collar	4	4			
11	7601 29051	Bolt	4	4				30	7602 60097	Cable Ass'y	2	2			ℓ = 1000.
12	7141 08015	Bolt & Washer	4	4				31	7231 05025	Pin-split	2	2			
13	7012 06010	Machine-screw	2	2				32	7142 04010	Bolt & Washer	2	2			
14	7161 10020	Bolt	4	4				33	7111 05008	Bolt	2	2			
15	7142 05012	Bolt & Washer	12	12				34	7609 90207	Band-hose	2	2			
16	7211 11120	Nut	4	4				35	☆	Plate (4)	1	1	△		
17	7222 11120	Washer-spring	4	4				36	☆	Pipe (1)	1	1	△		
18	7222 11100	Washer-spring	4	4				37	☆	Pipe (2)	1	1	△		

Q.....New and old parts are interchangeable. X.....New and old parts are not interchangeable. △.....Part not for sale. D.....Disuse. Q.....Quantity

Fig. 14 BASE ASS'Y

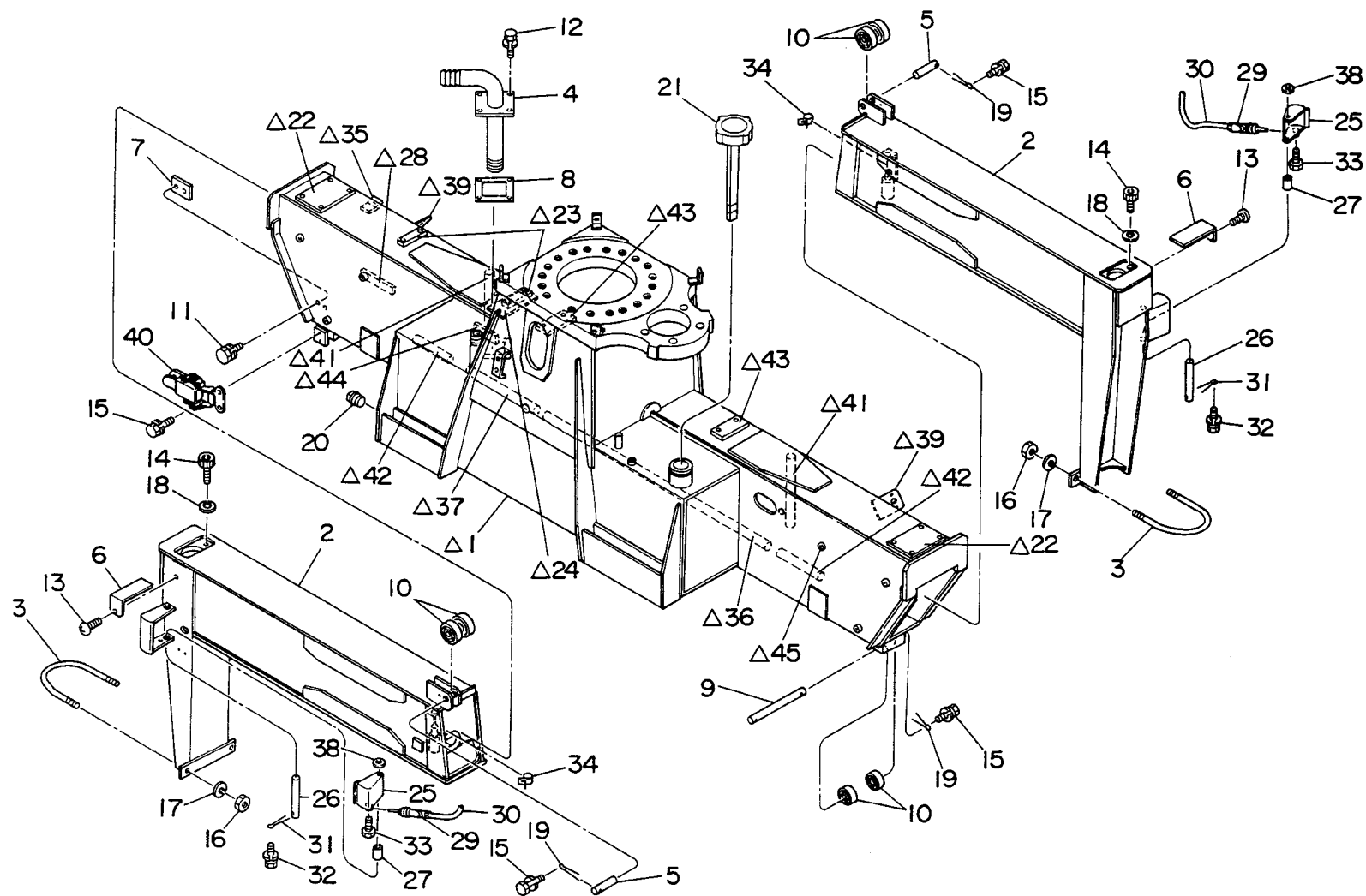


Fig. 14 BASE ASS'Y

KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE
			333	334			
38	7221 12080	Washer-plain	2	2			
39	☆	Plate	2	2	△		
40	7604 52014	Catcher	2	2			
41	☆	Pipe (2)	2	2	△		
42	☆	Pipe (3)	2	2	△		
43	☆	Plate (5)	2	2	△		
44	☆	Bracket (2)	1	1	△		
45	☆	Boss	6	6	△		

Q.....New and old parts are interchangeable. X.....New and old parts are not interchangeable. Δ.....Part not for sale. D.....Disuse. Q.....Quantity

Fig. 15 SWING DEVICE ASS'Y

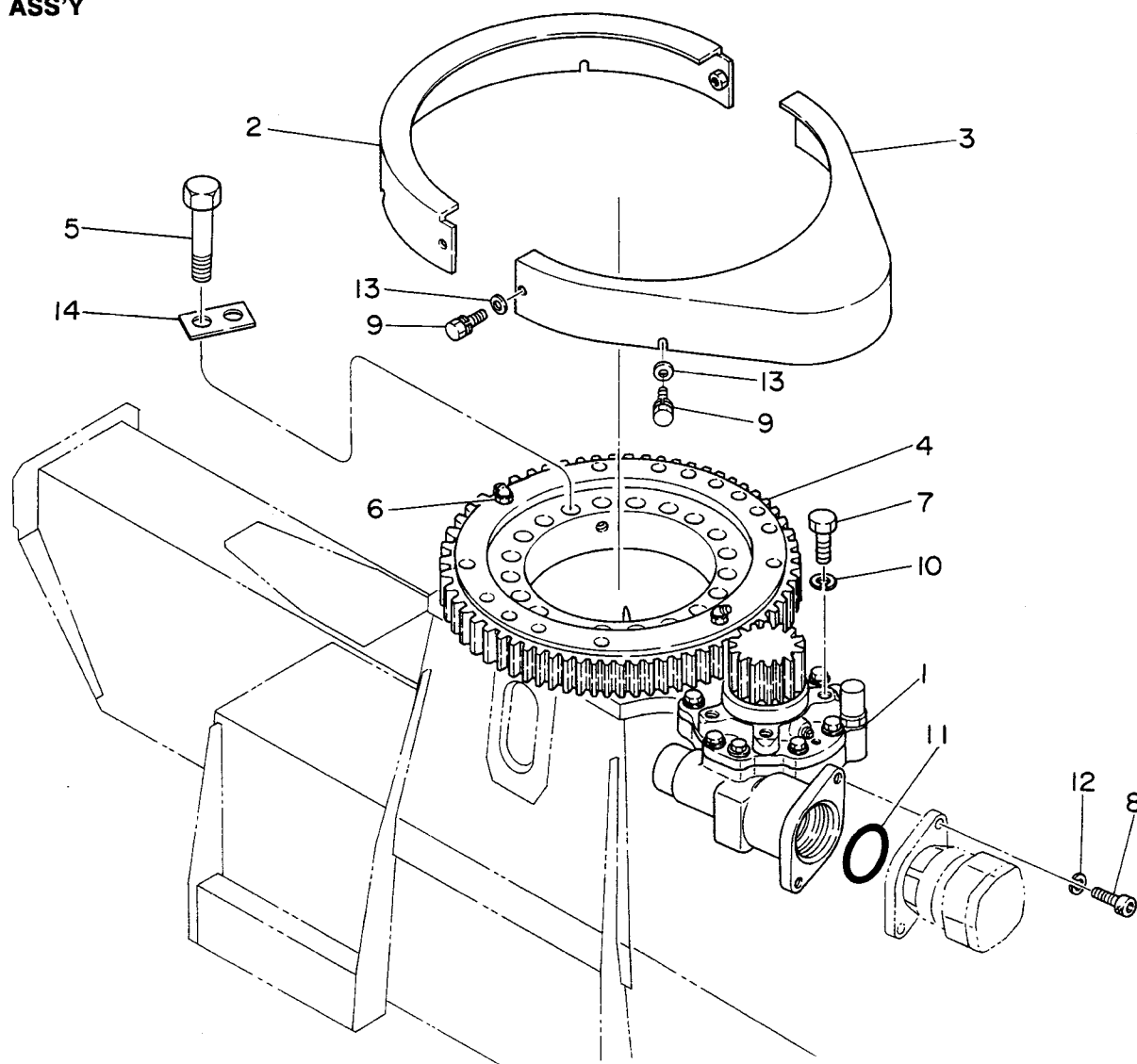


Fig. 15 SWING DEVICE ASS'Y

KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE	KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE
			333	334							333	334			
1~14	0882 41000	Swing device Ass'y	1 set	1 set	△										
1	0805 41051	Swing gear box Ass'y SEE Fig. 16	1	1											
2	0805 41022	Cover (1)	1	1											
3	0805 41032	Cover (2)	1	1											
4	7405 30032	Table-turn	1	1											
5	0882 41010	Bolt	19	19											
6	7243 34000	Nipple-grease	2	2											
7	7161 16050	Bolt	4	4											
8	7161 14035	Bolt	2	2											
9	7141 08018	Bolt & Washer	6	6											
10	7222 11160	Washer-spring	4	4											
11	7311 72100	Ring-"O"	1	1											
12	7222 11140	Washer-spring	2	2											
13	7221 12080	Washer-plain	6	6											
14	0143 41050	Stopper	10	10											

Q.....New and old parts are interchangeable. X.....New and old parts are not interchangeable. △.....Part not for sale. D.....Disuse. Q.....Quantity

Fig. 16 SWING GEAR BOX ASS'Y

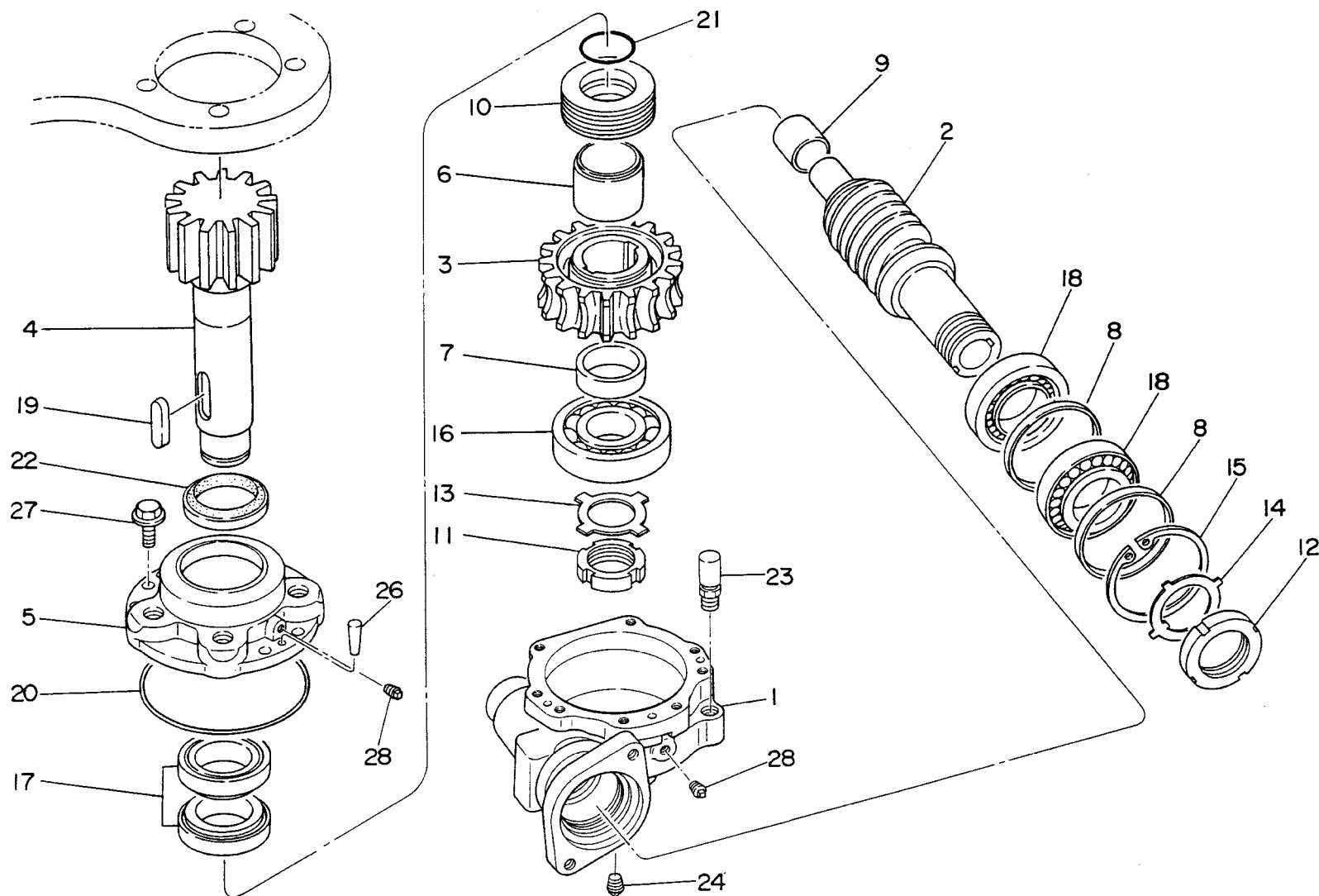


Fig. 16 SWING GEAR BOX ASS'Y

KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE	KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE
			333	334							333	334			
1~28	0805 41051	Swing gear box Ass'y	1 set	1 set				19	7332 12044	Key	2	2			
1	K841 05011	Casing	1	1				20	7701 70031	Ring-"O"	1	1			
2	K841 05020	Shaft-warm	1	1				21	7311 72060	Ring-"O"	1	1			
3	K841 05030	Wheel-warm	1	1				22	8220 56070	Seal-dust	1	1			
4	K841 05040	Shaft-gear	1	1				23	0138 41120	Vent plug	1	1			
5	K841 01043	Housing-bearing	1	1				24	7252 60300	Plug	1	1			
6	K841 05050	Collar (1)	1	1				25	☆						
7	K841 05060	Collar (2)	1	1				26	7232 10030	Pin-taper	2	2			
8	K841 01070	Collar (3)	2	2				27	7601 29042	Bolt-flange	8	8			
9	F241 01080	Bushing (1)	1	1				28	7252 60100	Plug	2	2			
10	K841 01080	Nut	1	1											
11	7243 10900	Nut-crown	1	1											
12	7243 10800	Nut-crown	1	1											
13	7243 20900	Washer-crown	1	1											
14	7243 20800	Washer-crown	1	1											
15	7241 20800	Ring-snap	1	1											
16	7260 62090	Bearing-ball	1	1											
17	7263 22100	Bearing-taper roller	2	2											
18	7263 02080	Bearing-taper roller	2	2											

○.....New and old parts are interchangeable. ✕.....New and old parts are not interchangeable. △.....Part not for sale. D.....Disuse. Q.....Quantity

Fig. 17 HOIST WINCH ASS'Y

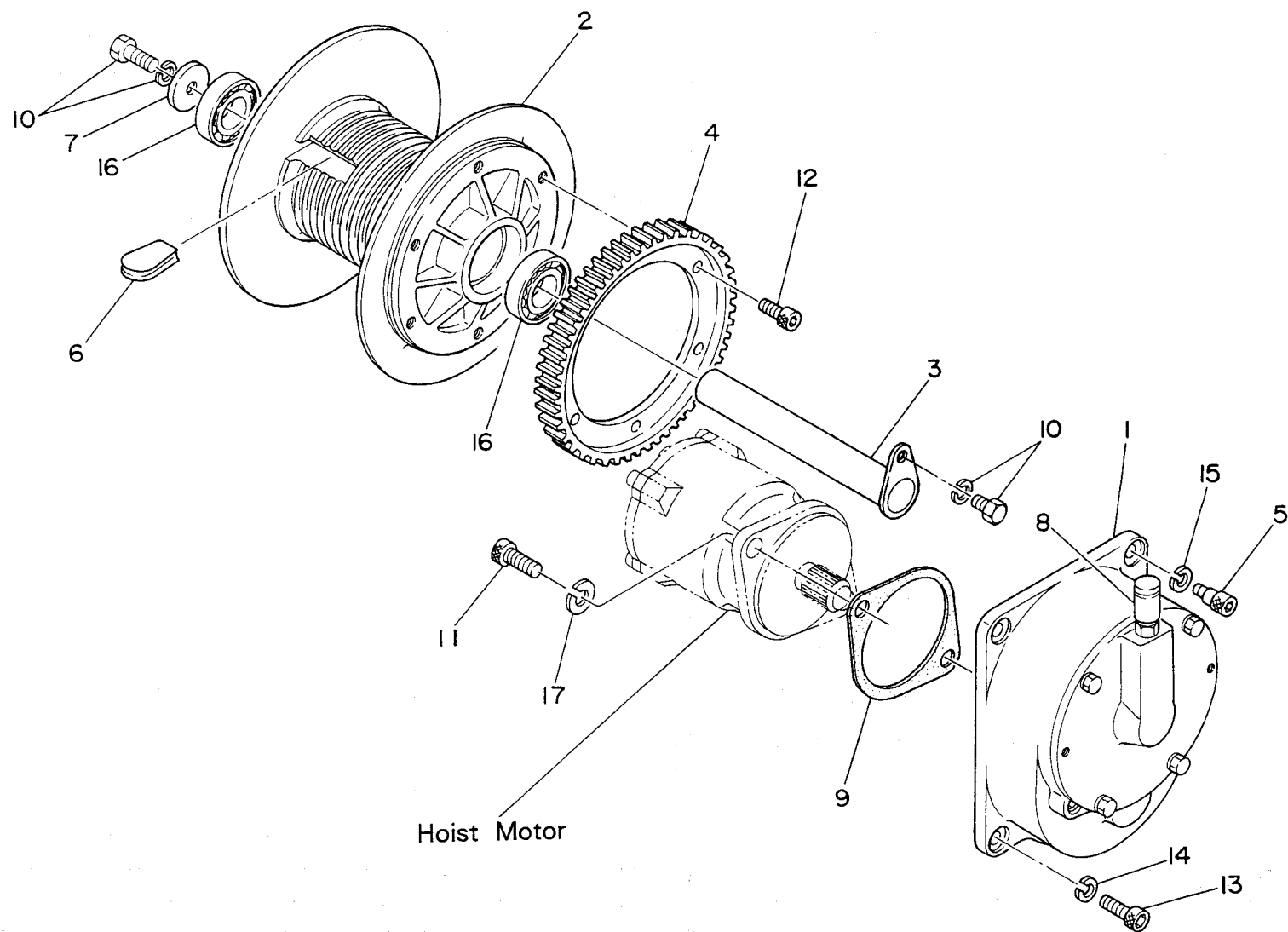


Fig. 17 HOIST WINCH ASS'Y

KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE
			333	334			
1~17	080B 31000	Hoist winch Ass'y	1 set	1 set			
1	0882 31010	Winch gear box Ass'y SEE Fig. 18	1	1			
2	080B 31010	Drum	1	1			φ 135
3	0805 31030	Pin (30)	1	1			
4	0143 31040	Gear (4)	1	1			
5	0143 31051	Bolt-set	1	1			
6	0123 32090	Wedge	1	1			
7	0119 51060	Plate	1	1			
8	0138 41120	Vent plug	1	1			
9	0125 31340	Packing (3)	1	1			
10	7141 10016	Bolt & Washer	2	2			
11	7161 14025	Bolt	2	2			
12	7161 10020	Bolt	6	6			
13	7161 10025	Bolt	3	3			
14	7222 11100	Washer-spring	3	3			
15	7222 11120	Washer-spring	1	1			
16	7260 62062	Bearing	2	2			
17	7222 11140	Washer-spring	2	2			
18-1	0143 31060	Shim (1)	1	1			t=0.4

KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE
			333	334			
18-2	0143 31070	Shim (2)	1	1			t=0.8

Q.....New and old parts are interchangeable. X.....New and old parts are not interchangeable. Δ.....Part not for sale. D.....Disuse. Q.....Quantity

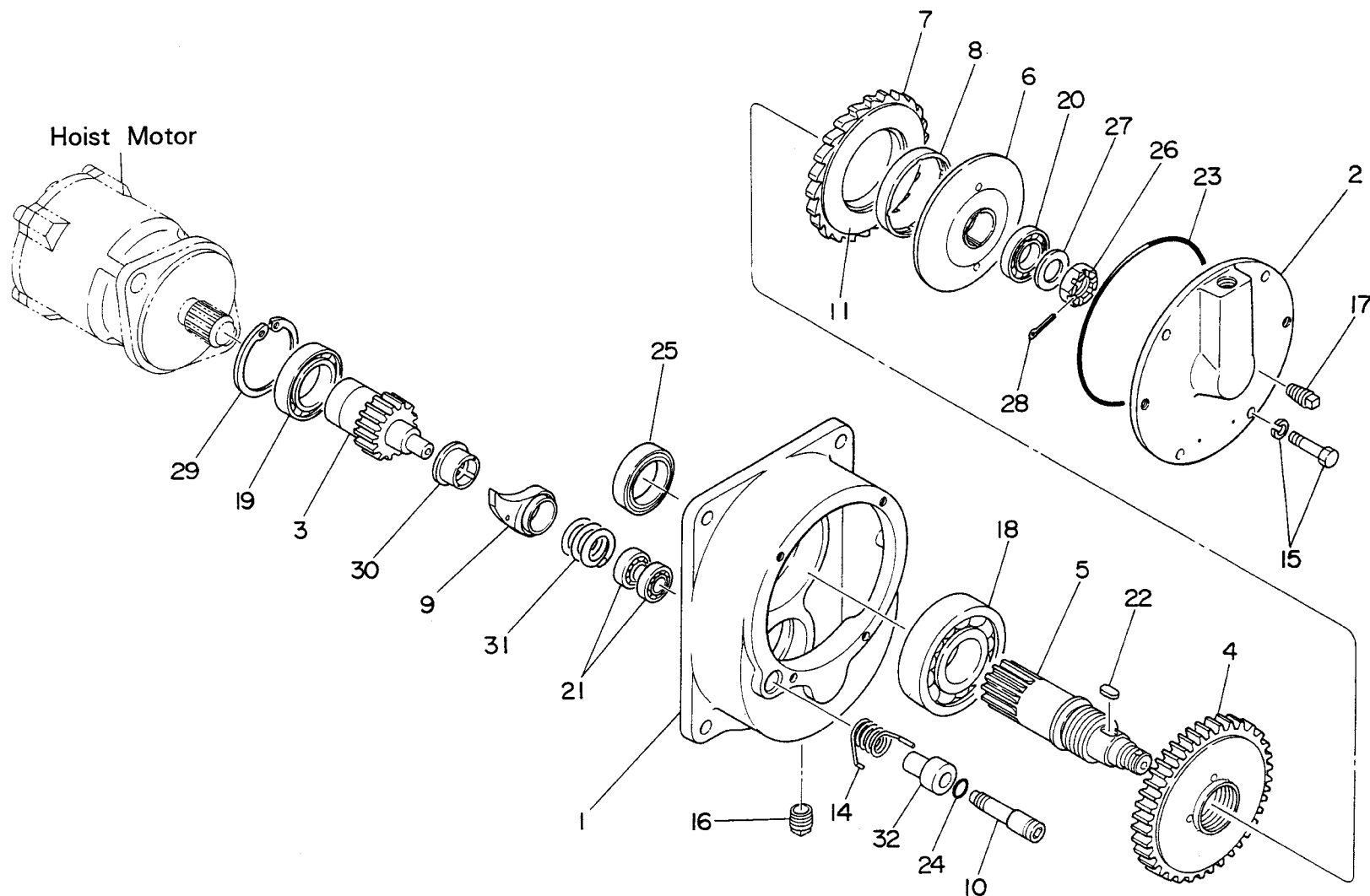
Fig. 18 WINCH GEAR BOX ASS'Y

Fig. 18 WINCH GEAR BOX ASS'Y

KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE
			333	334			
1~32	0882 31010	Winch gear box Ass'y	1 set	1 set			
1	N131 01010	Casing	1	1			
2	N131 01020	Cover	1	1			
3	N131 01030	Gear (1)	1	1			
4	0125 31074	Gear (2)	1	1			
5	K831 01020	Shaft-gear	1	1			
6	0125 31122	Disc	1	1			
7	0125 31111	Wheel-ratchet	1	1			
8	0125 31143	Bushing	1	1			
9	N131 01040	Pawl	1	1			
10	N131 01050	Pin-pawl	1	1			
11	V131 01050	Brake shoe Ass'y	2	2			
12	☆						
13	☆						
14	N131 01060	Spring	1	1			
15	7141 08020	Bolt & Washer	4	4			
16	7252 60300	Plug	1	1			
17	7252 60100	Plug	1	1			
18	7260 63090	Bearing	1	1			
19	7260 60080	Bearing	1	1			
20	7260 60050	Bearing	1	1			
21	7602 10092	Bearing	2	2			
22	7331 07020	Key	2	2			
23	7311 72145	Ring-"O"	1	1			
24	7311 74016	Ring-"O"	1	1			
25	8520 45062	Seal-oil	1	1			
26	7213 31200	Nut-castle	1	1			
27	7221 12200	Washer-plain	1	1			
28	7231 04040	Pin-split	1	1			
29	7241 20680	Ring-snap	1	1			
30	N131 01070	Bushing	1	1			
31	N131 01080	Spring	1	1			
32	N131 01090	Collar	1	1			

○.....New and old parts are interchangeable. ✕.....New and old parts are not interchangeable. △.....Part not for sale. D.....Disuse. Q.....Quantity

Fig. 19 BOOM LIFT CYLINDER ASS'Y

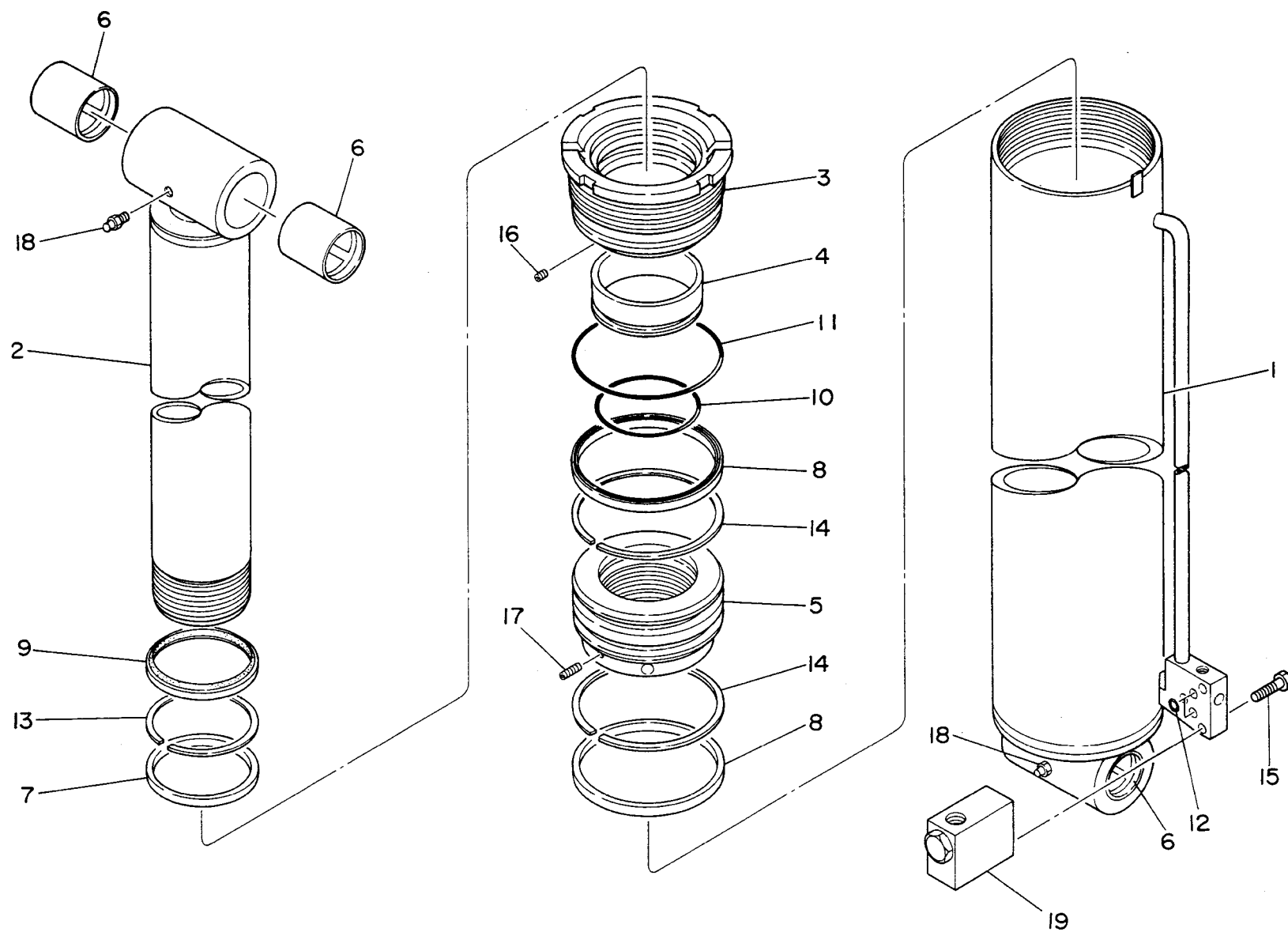


Fig. 19 BOOM LIFT CYLINDER ASS'Y

KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE	KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE
			333	334							333	334			
1~18	0882 11000	Boom lift cylinder Ass'y	1 set	1 set				19	6014 74000	Boom, lift cylinder holding valve Ass'y SEE Fig. HP4	1 set	1 set			CB-03ED
1	0882 11010	Tube Ass'y (1)	1	1				S	9180 511P0	Packing set	1 set	1 set			
2	0882 11020	Rod Ass'y (1)	1	1											
3	0805 11031	Gland	1	1											
4	0805 11040	Bushing-gland	1	1											
5	0805 11050	Piston	1	1											
6	0143 11061	Bushing	4	4											
S 7	8230 95110	Packing	1	1											
S 8	8231 30145	Packing	2	2											
S 9	8300 95109	Seal-dust	1	1											
S 10	7311 92095	Ring-"O"	1	1											
S 11	7311 92140	Ring-"O"	1	1											
S 12	7311 91016	Ring-"O"	2	2											
S 13	8280 95110	Ring-back up	1	1											
S 14	8281 30145	Ring-back up	2	2											
15	7117 08030	Bolt	3	3											
16	7049 06008	Screw-set	2	2											
17	7049 08025	Screw-set	1	1											
18	7243 32000	Nipple-grease	2	2											

Q.....New and old parts are interchangeable. *.....New and old parts are not interchangeable. Δ.....Part not for sale. D.....Disuse. Q.....Quantity

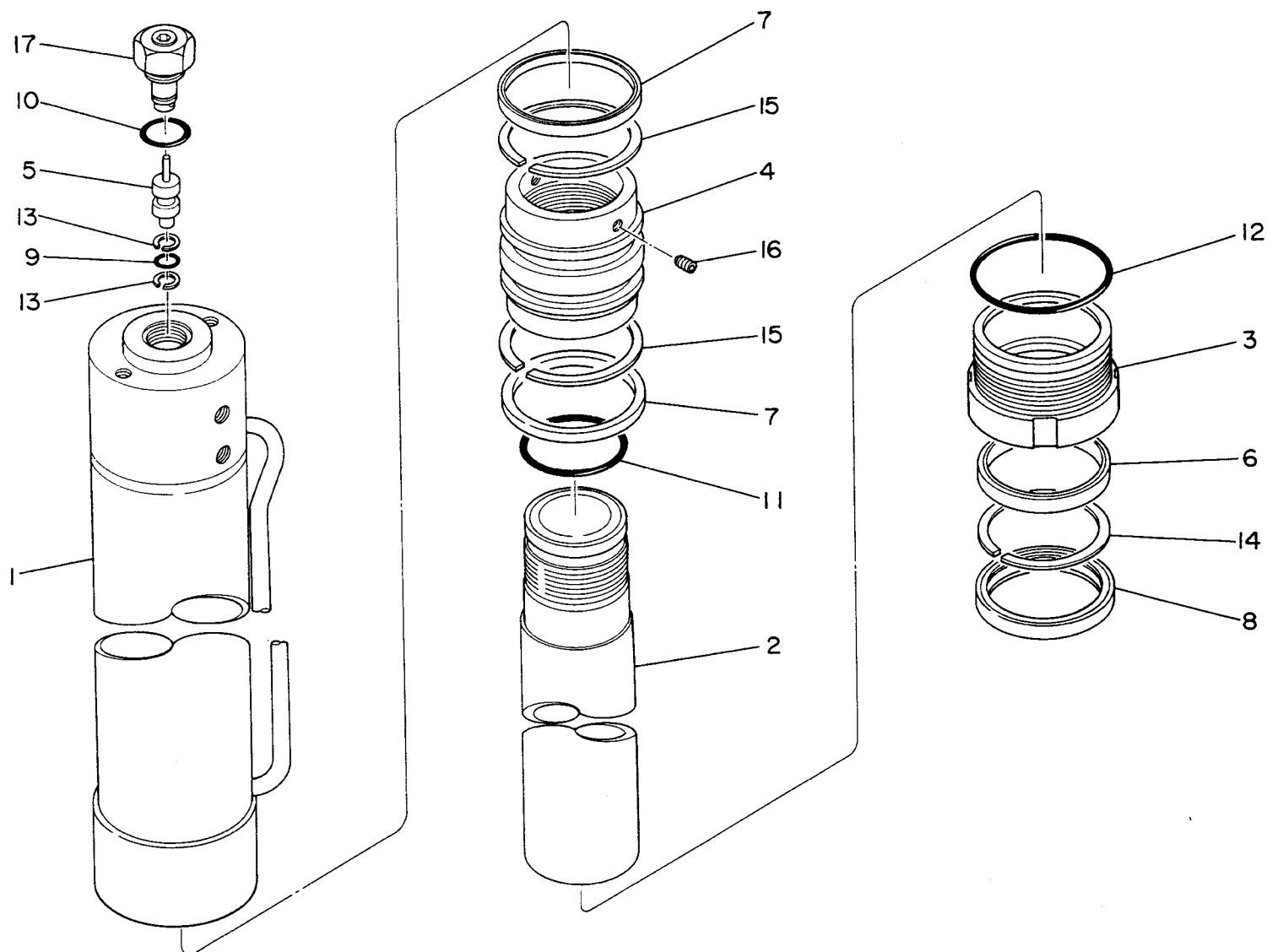
Fig. 20 OUTRIGGER CYLINDER ASS'Y

Fig. 20 OUTRIGGER CYLINDER ASS'Y

KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE
			333	334			
1~17	0831 13000	Outrigger cylinder Ass'y	1 set	1 set			
1	0805 13011	Tube Ass'y (1)	1	1			
2	0831 13011	Rod Ass'y	1	1			
3	0805 13030	Gland	1	1			
4	0143 13031	Piston	1	1			
5	0143 13041	Spool	1	1			
S 6	8410 70080	Packing	1	1			
S 7	8230 75085	Packing	2	2			
S 8	8300 70084	Seal-dust	1	1			
S 9	7311 71011	Ring-"O"	1	1			
S 10	7311 92025	Ring-"O"	1	1			
S 11	7311 92065	Ring-"O"	1	1			
S 12	7311 92080	Ring-"O"	1	1			
S 13	7321 21011	Ring-back up	2	2			
S 14	8280 70080	Ring-back up	1	1			
S 15	8280 75085	Ring-back up	2	2			
16	7049 08010	Screw-set	2	2			
17	6016 81000	Outrigger cylinder holding valve Ass'y SEE Fig. HP6	1	1			CP-03 F

KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE
			333	334			
S	9180 513P0	Packing set	1 set	1 set			

Q.....New and old parts are interchangeable. F.....New and old parts are not interchangeable. Δ.....Part not for sale. D.....Disuse. Q.....Quantity

Fig. 21 SWIVEL JOINT ASS'Y

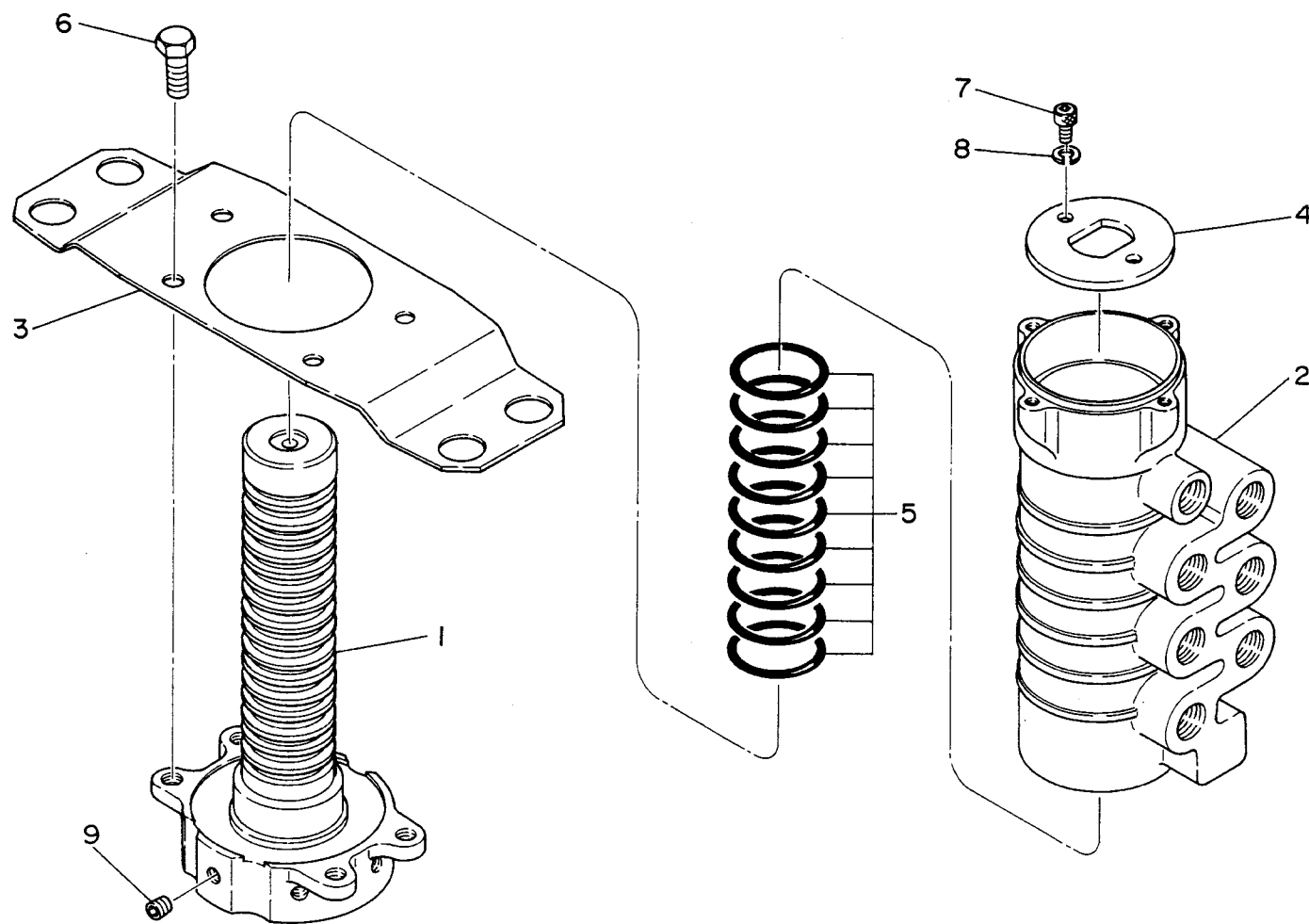


Fig. 21 SWIVEL JOINT ASS'Y

KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE	KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE
			333	334							333	334			
1~9	0805 43000	Swivel joint Ass'y	1 set	1 set											
1	0805 43011	Inner part	1	1											
2	0805 43021	Outer part	1	1											
3	0805 43030	Flange	1	1											
4	0805 43040	Plate	1	1											
5	8374 54062	Packing	9	9											
6	7601 29043	Bolt	4	4											
7	7161 06012	Bolt	2	2											
8	7222 11060	Washer-spring	2	2											
9	7287 20200	Plug	17	17											

Q.....New and old parts are interchangeable. X.....New and old parts are not interchangeable. △.....Part not for sale. D.....Disuse. Q.....Quantity

Fig. 22 SLIP RING ASS'Y

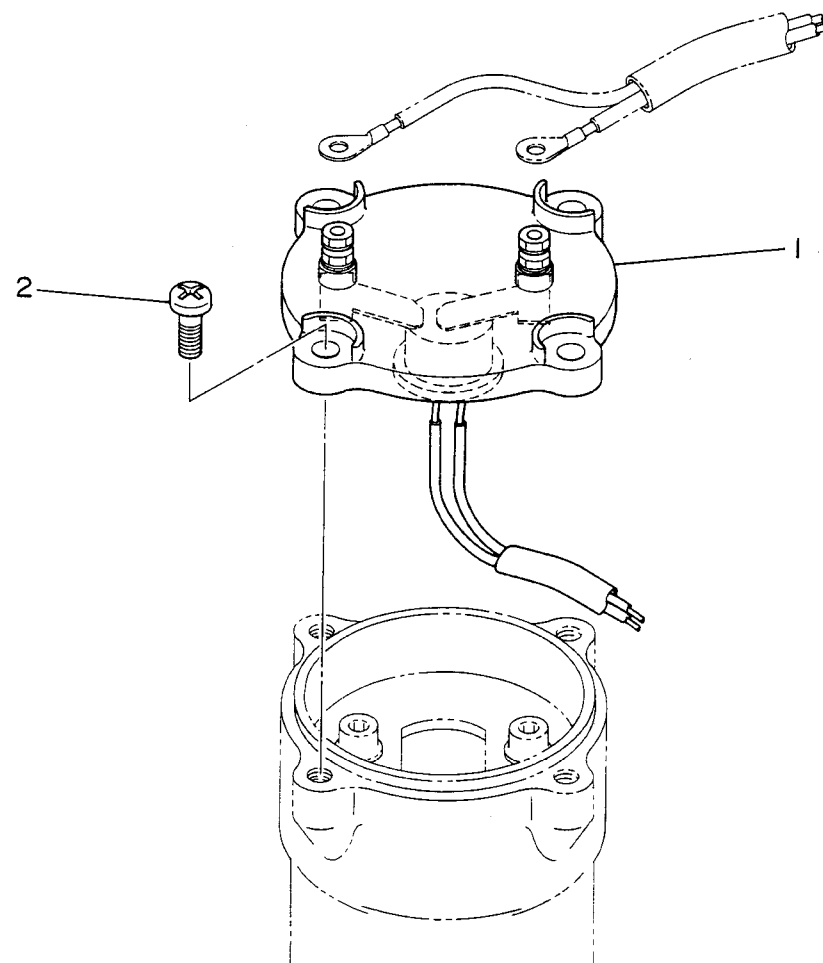


Fig. 22 SLIP RING ASS'Y

KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE	KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE
			333	334							333	334			
1~2	0805 93000	Slip ring Ass'y	1 set	1 set											
1	7505 07010	Slip ring	1	1											
2	7012 06015	Screw-machine	4	4											

♂.....New and old parts are interchangeable.
 ✕.....New and old parts are not interchangeable.
 △.....Part not for sale.
 D.....Disuse.
 Q.....Quantity

Fig. 23 CONTROL ASS'Y

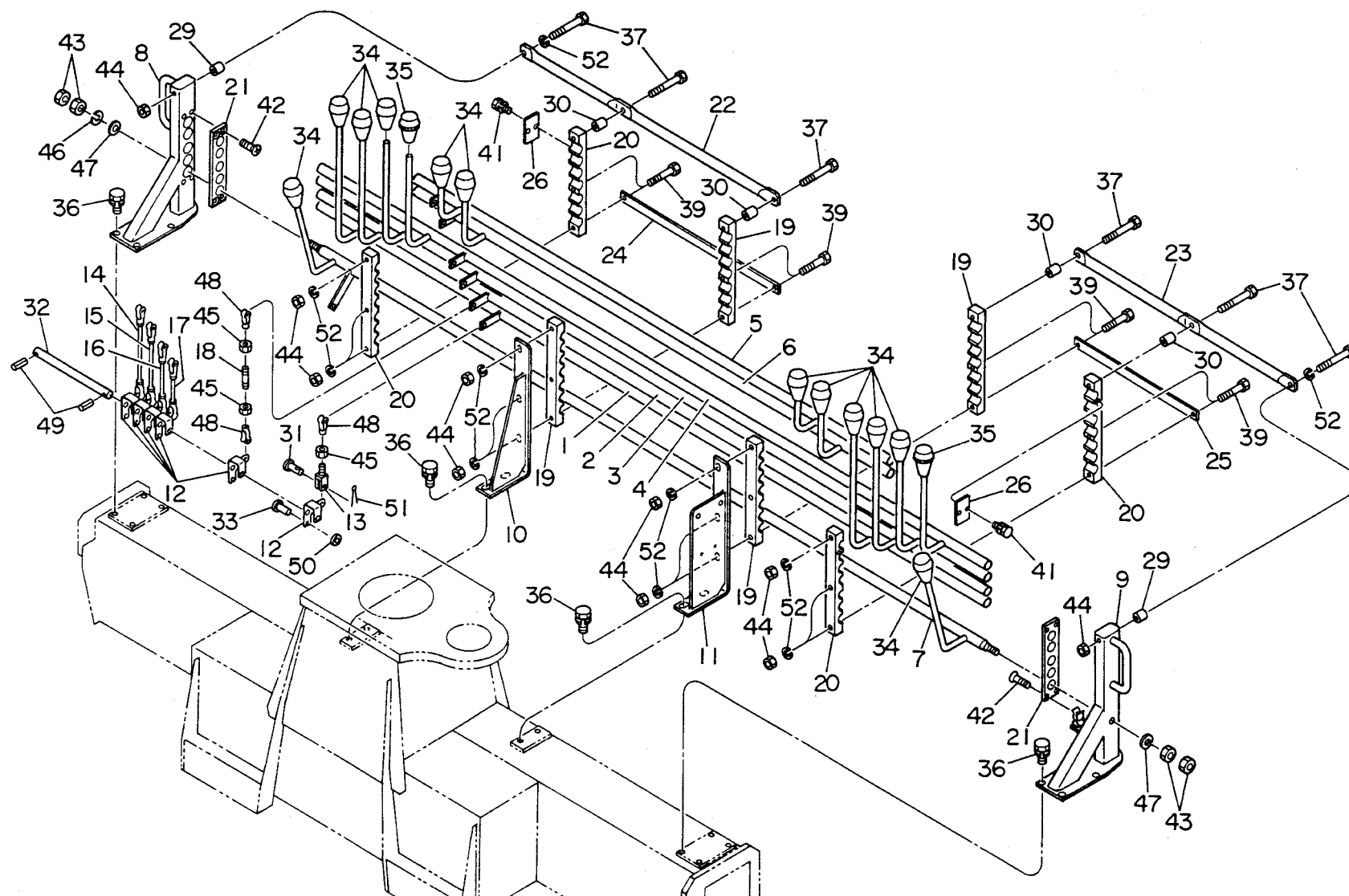


Fig. 23 CONTROL ASS'Y

KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE
			333	334			
1~52	08A4 58000	Control Ass'y	1 set	1 set	△		
1	08A4 58010	Lever Ass'y (1)	1	1			
2	08A4 58020	Lever Ass'y (2)	1	1			
3	08A4 58030	Lever Ass'y (3)	1	1			
4	08A4 58040	Lever Ass'y (4)	1	1			
5	08A4 58050	Lever Ass'y (5)	1	1			
6	08A4 58060	Lever Ass'y (6)	1	1			
7	08A4 58070	Lever Ass'y (7)	1	1			
8	08A4 58080	Bracket (1)	1	1			
9	08A4 58090	Bracket (2)	1	1			
10	08A4 58110	Bracket (3)	1	1			
11	08A4 58120	Bracket (4)	1	1			
12	08A4 58130	Link	6	6			
13	08A4 58140	End-fork	1	1			
14	08A4 58150	Rod (1)	1	1			
15	08A4 58160	Rod (2)	1	1			
16	08A4 58170	Rod (3)	1	1			
17	08A4 58180	Rod (4)	1	1			
18	08A4 58190	Rod (5)	1	1			
19	08A4 58210	Stopper-pipe (1)	4	4			
20	08A4 58220	Stopper-pipe (2)	4	4			
21	08A4 58230	Plate	2	2			
22	08A4 58240	Pipe (1)	1	1			
23	08A4 58250	Pipe (2)	1	1			
24	08A4 58260	Plate (1)	1	1			
25	08A4 58270	Plate (2)	1	1			
26	08A4 58280	Plate (3)	2	2			
27	☆						
28	☆						
29	08A4 58290	Collar (1)	2	2			
30	08A4 58310	Collar (2)	4	4			
31	0143 54380	Pin	1	1			
32	0143 53141	Pin (1)	1	1			
33	0805 58240	Pin (5)	6	6			
34	080B 58010	Knob (Black)	12	12			
35	080B 58020	Knob (Red)	2	2			
36	7141 10020	Bolt & Washer	12	12			
37	7111 08080	Bolt	6	6			

Q.....New and old parts are interchangeable. X.....New and old parts are not interchangeable. △.....Part not for sale. D.....Disuse. Q.....Quantity

Fig. 23 CONTROL ASS'Y

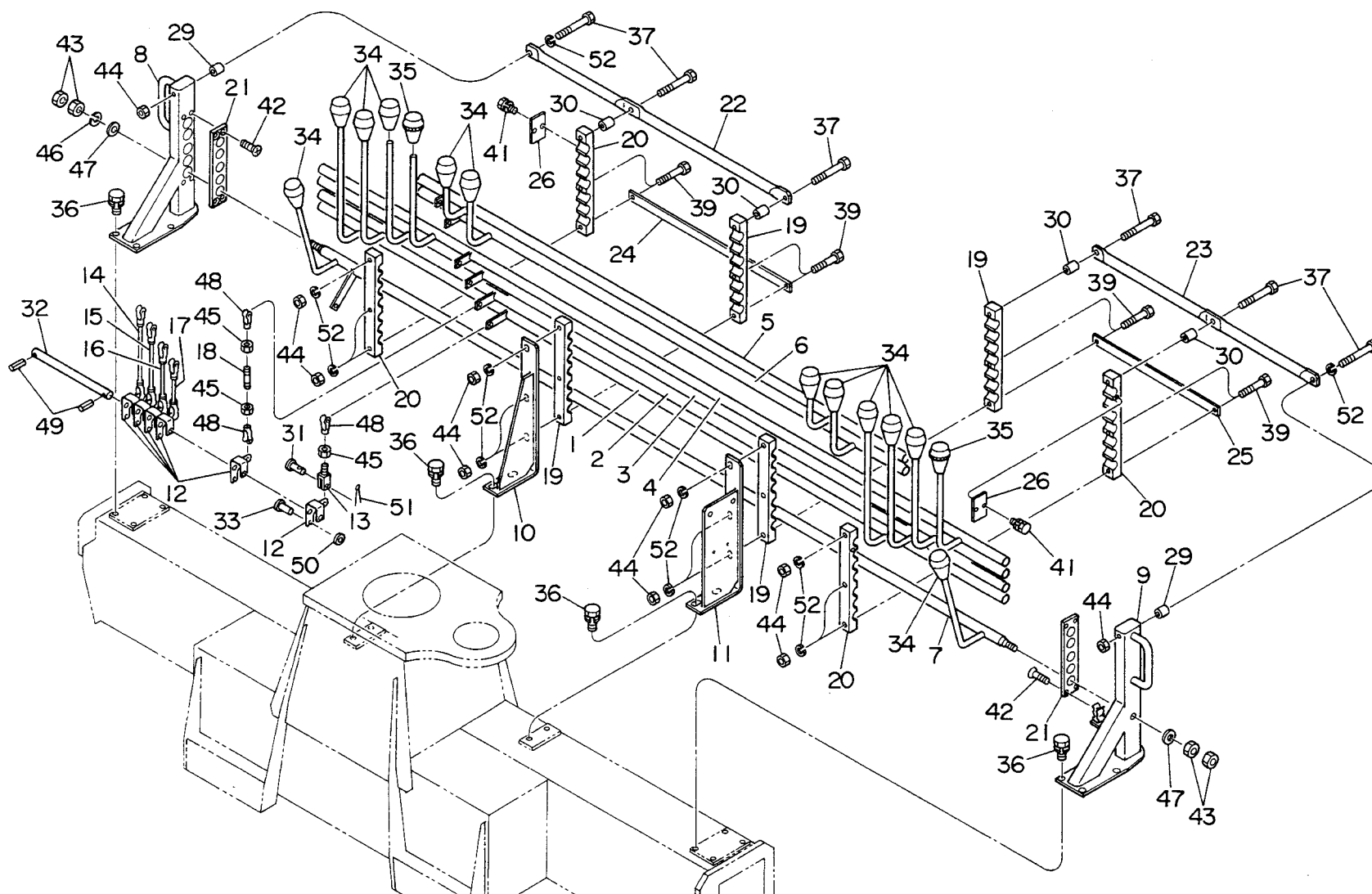


Fig. 23 CONTROL ASS'Y

KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE	KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE
			333	334							333	334			
38	☆														
39	7111 08060	Bolt	8	8											
40	☆														
41	7141 08015	Bolt & Washer	4	4											
42	7015 08020	Screw-machine	8	8											
43	7211 11120	Nut	4	4											
44	7211 11080	Nut	14	14											
45	7211 11060	Nut	10	10											
46	7222 11120	Washer-spring	1	1											
47	7221 12120	Washer-plain	2	2											
48	7609 90195	Clevis Ass'y	11	11											
49	7234 05025	Pin-spring	2	2											
50	7241 90050	Nut-push	6	6											
51	7231 02020	Pin-split	1	1											
52	7222 11080	Washer-spring	14	14											

⚡.....New and old parts are interchangeable.
 ✕.....New and old parts are not interchangeable.
 △.....Part not for sale.
 D.....Disuse.
 Q.....Quantity

Fig. 24 TOOLS

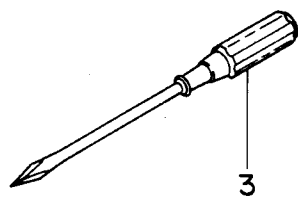
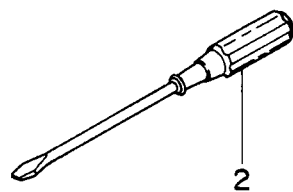
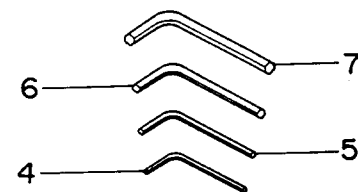
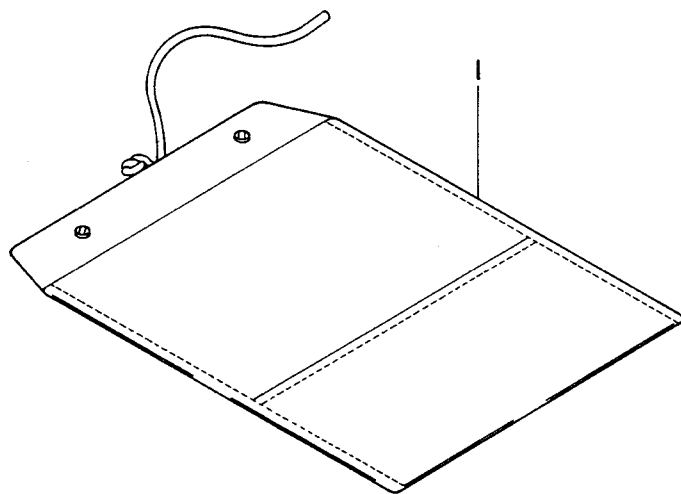


Fig. 24 TOOLS

KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE	KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE
			333	334							333	334			
1~7	0138 84000	Tools	1 set	1 set											
1	7609 90132	Bag-tool	1	1											
2	7600 00321	Screw-driver (-)	1	1											
3	7600 00407	Screw-driver (+)	1	1											
4	7600 00325	Wrench-hexagon key	1	1											
5	7600 00405	Wrench-hexagon key	1	1											
6	7600 00324	Wrench-hexagon key	1	1											
7	7600 00323	Wrench-hexagon key	1	1											

Q.....New and old parts are interchangeable. X.....New and old parts are not interchangeable. Δ.....Part not for sale. D.....Disuse. Q.....Quantity

Fig. 25 PLACARD

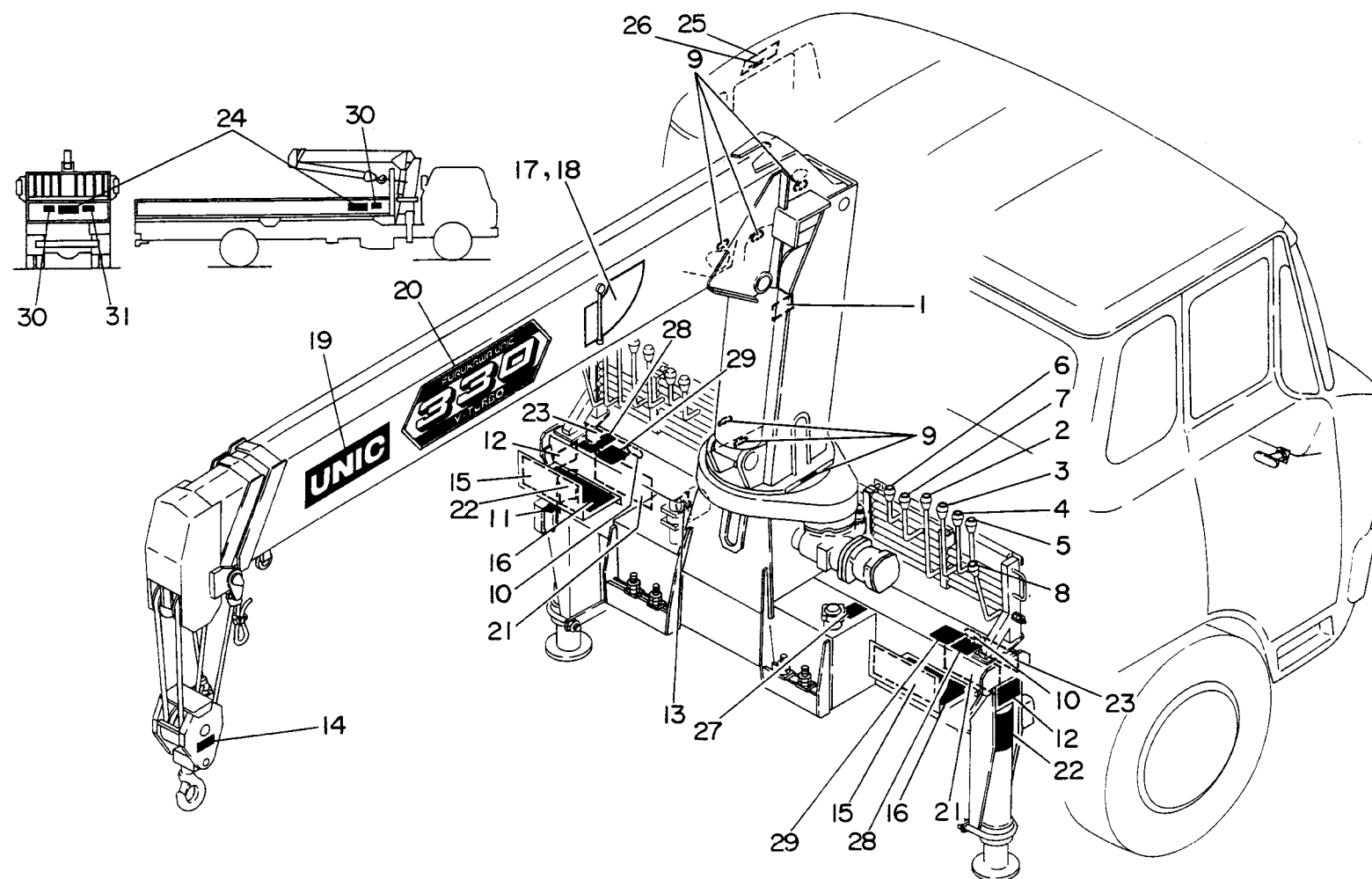


Fig. 25 PLACARD

KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE	KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE
			333	334							333	334			
1~31	☆	Placard	1 set	1 set	△				08A5 81010	Placard (Boom angle R.H.)	1				
1	0891 81010	Crane model name plate	1	1				18	08A4 81060	Placard (Boom angle L.H.)	1				
2	088D 81011	Placard (Raise/Lower)	2	2					08A5 81020	Placard (Boom angle L.H.)	1				
3	088D 81021	Placard (Hoist)	2	2				19	6021 05030	Placard (UNIC)	2	2			
4	088D 81030	Placard (Telescoping)	2	2				20	080B 81190	Placard (330)	2	2			
5	088D 81041	Placard (Swing)	2	2				21	088F 81090	Placard (Electrocution Hazard)	2	2			
6	08A4 81010	Placard (Outrigger street side)	2	2				22	088F 81050	Placard (Danger, O/R operation)	2	2			
7	08A4 81020	Placard (Outrigger curve side)	2	2				23	088F 81070	Placard (Replacement warning)	2	2			
8	08A4 81030	Placard (Accelerator)	2	2				24	088F 81110	Placard (Electrocution Hazard)	3	3			
9	0805 81060	Placard (Grease)	6	6				25	088F 81080	Placard (Caution, RPM Roding)	1	1			
10	0805 81070	Placard (Warning horn)	2	2				26	6021 04431	Placard (Name plate "UNIC")	2	2			
11	0882 81082	Placard (Blue mark)	2	2				27	088F 81060	Placard (Hydraulic oil only)	1	1			
12	0891 81060	Placard (Caution O/R operation)	2	2				28	08A4 81090	Placard (Caution, inspect vehicle)	2	2			
13	0891 81070	Placard (Filter)	1	1				29	08A4 81110	Placard (Danger, two blocking)	2	2			
14	08A4 81040	Placard (Hook)	2	2				30	08A4 81120	Placard (Danger, Ride Load line)	3	3			
15	08A4 81070	Placard (Maximum load chart)	2					31	08A4 81130	Placard (Danger, Hoisting Personnel)	1	1			
	08A5 81030	Placard (Maximum load chart)		2											
16	08A4 81080	Placard (Operating instructions)	2	2											
17	08A4 81050	Placard (Boom angle R.H.)	1												

☆.....New and old parts are interchangeable. ✕.....New and old parts are not interchangeable. △.....Part not for sale. D.....Disuse. Q.....Quantity

Fig. 26 EQUIPMENT

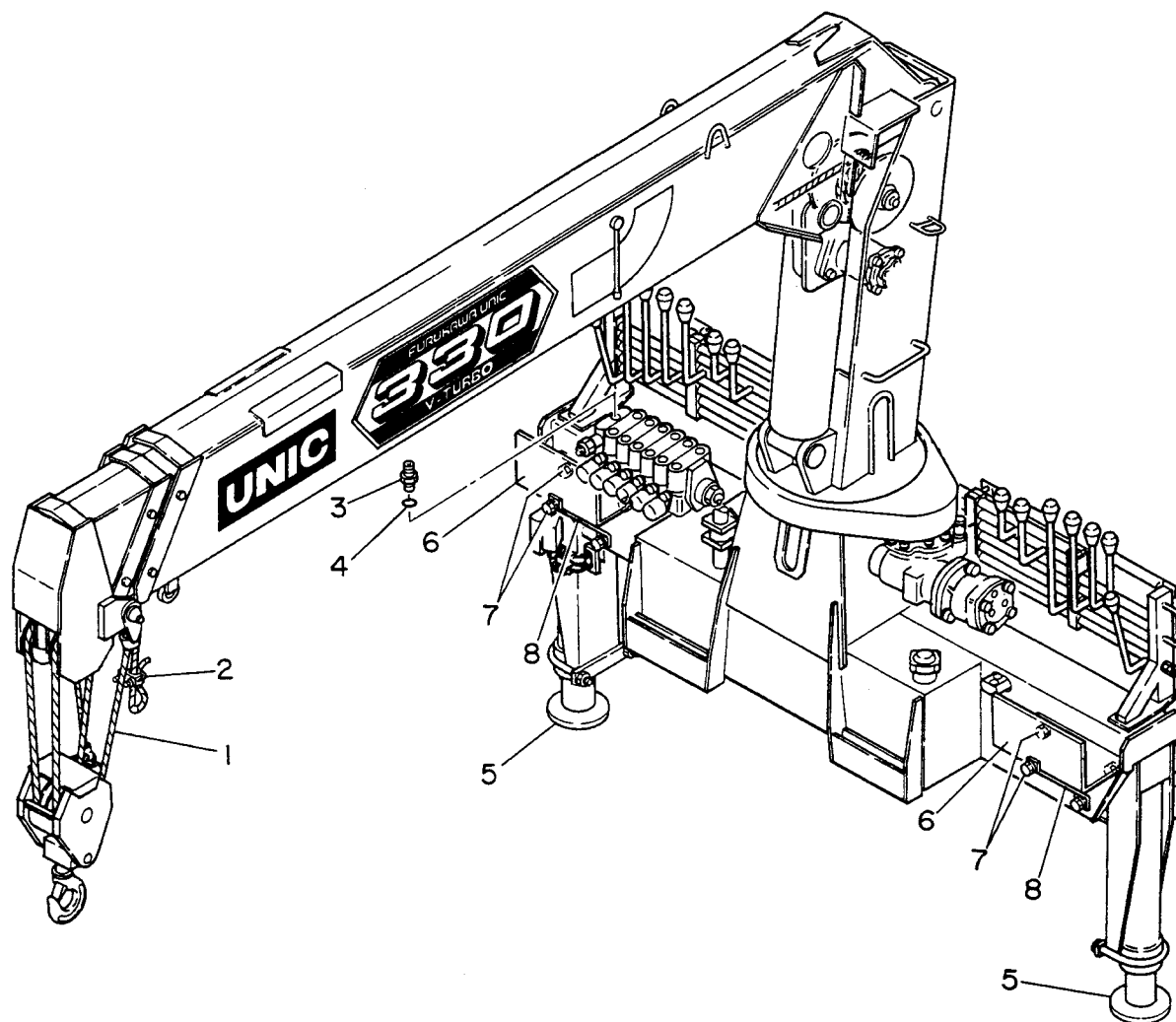


Fig. 26 EQUIPMENT

KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE	KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE
			333	334							333	334			
1~8	☆	Equipment	1 set	1 set	△										
1	7602 50122	Rope-wire	8 φ× 50m												
	7602 50123	Rope-wire		8 φ× 62m											
2	7601 60064	Clip-wire	1	1											
3	0891 81020	Joint	1	1											
4	7311 91018	Ring-"O"	1	1											
5	0143 88420	Float	2	2											
6	088F 81010	Panel	2	2											
7	7141 08015	Bolt with Washer	8	8											
8	088F 81120	Plate	2	2											

Q.....New and old parts are interchangeable. X.....New and old parts are not interchangeable. △.....Part not for sale. D.....Disuse. Q.....Quantity

HYDRAULIC PARTS

Fig. HP1 CONTROL VALVE ASS'Y (MV-30A, 6-Spool)

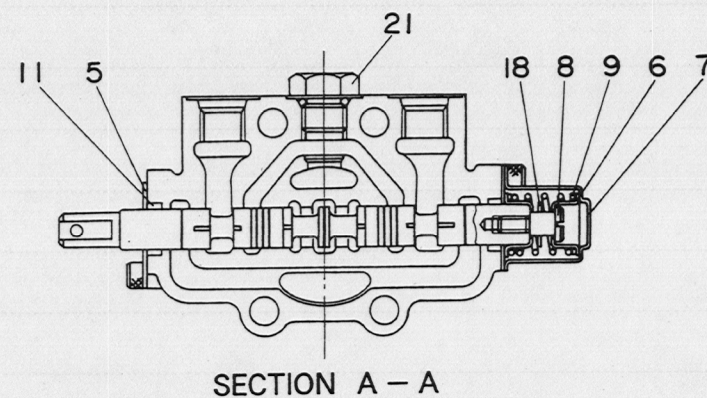
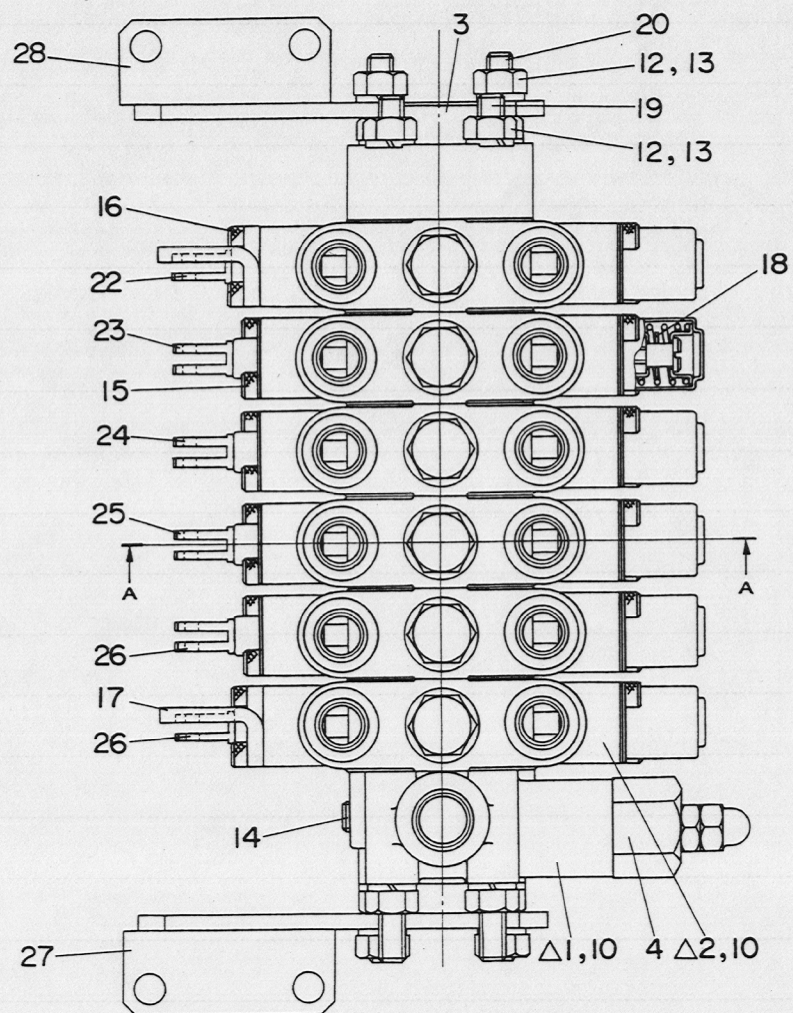


Fig. HP1 CONTROL VALVE ASS'Y (MV-30A, 6-Spool)

KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE
			333	334			
1~28	6019 03000	Control valve Ass'y	1 set	1 set			MV-30A
1	☆	Body-inlet	1	1	△		
2	☆	Body-valve (Parallel)	6	6	△		
3	6016 25020	Body-outlet	1	1			
4	6014 93000	Relief valve Ass'y SEE Fig. HP2	1	1			RT-15C
5	6015 50040	Seat-seal	10	10			
6	6015 50050	Seat-spring	12	12			
7	6017 25010	Cover	6	6			
8	6015 50071	Screw-cap	6	6			
9	6016 25030	Spring	6	6			
10	7701 70026	Ring-"O"	7	7			
11	7702 20003	Seal-dust	12	12			
12	7222 11100	Washer-spring	12	12			
13	7211 15100	Nut	12	12			
14	7287 20200	Plug	1	1			
15	7161 06008	Bolt	20	20			
16	7161 06012	Bolt	4	4			
17	6015 50114	Bracket	2	2			
18	6015 50090	Spacer	2	2			
19	6016 25040	Rod-tie (1)	2	2			ℓ = 320
20	6015 60010	Rod-tie (2)	2	2			ℓ = 335
21	7288 90300	Plug	6	6			
22	6017 28040	Meter in out spool	1	1			
23	6017 28010	Meter out spool	1	1			
24	6016 25071	Meter in spool	1	1			
25	6017 28030	Meter out spool "S"	1	1			
26	6015 50161	Meter in spool	2	2			
27	6019 03010	Bracket (1)	1	1			
28	6019 03020	Bracket (2)	1	1			

Q.....New and old parts are interchangeable. ✕.....New and old parts are not interchangeable. △.....Part not for sale. D.....Disuse. Q.....Quantity

Fig. HP2 RELIEF VALVE ASS'Y (RT-15C)

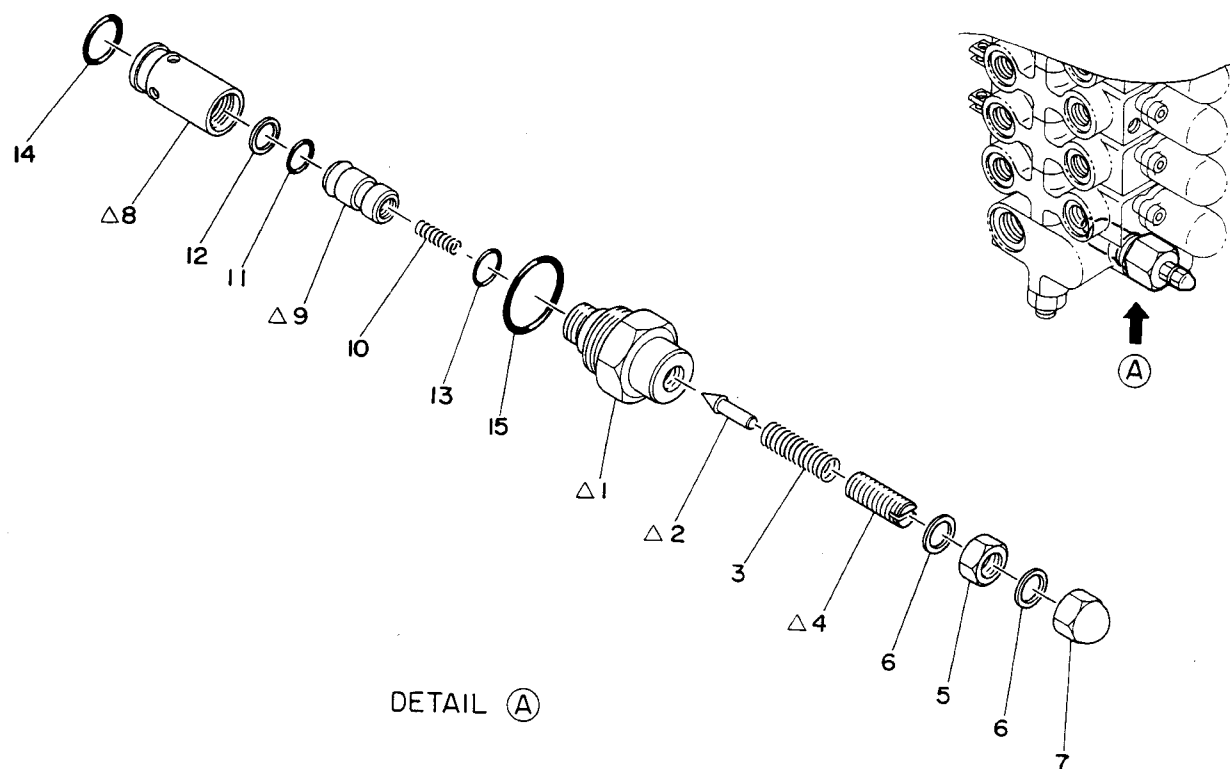


Fig. HP2 RELIEF VALVE ASS'Y (RT-15C)

KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE	KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE
			333	334							333	334			
1~15	6014 93000	Relief valve Ass'y	1	1			RT-15C								
1	☆	Cap	1	1	△										
2	☆	Valve-pilot	1	1	△										
3	6014 87060	Spring-pilot	1	1											
4	☆	Screw-adjusting	1	1	△										
5	6014 93060	Nut	1	1											
6	6013 07070	Washer-seal	2	2											
7	6041 93051	Nut-cap	1	1											
8	☆	Seat-valve	1	1	△										
9	☆	Valve-main	1	1	△										
10	6014 93040	Spring-main	1	1											
11	7311 73012	Ring-"O"	1	1											
12	7321 23012	Ring-back up	1	1											
13	7311 74512	Ring-"O"	1	1											
14	7311 91015	Ring-"O"	1	1											
15	7311 71024	Ring-"O"	1	1											

Q.....New and old parts are interchangeable. X.....New and old parts are not interchangeable. △.....Part not for sale. D.....Disuse. Q.....Quantity

Fig. HP3 EXTENSION CYLINDER HOLDING VALVE ASS'Y (CB-03ET)

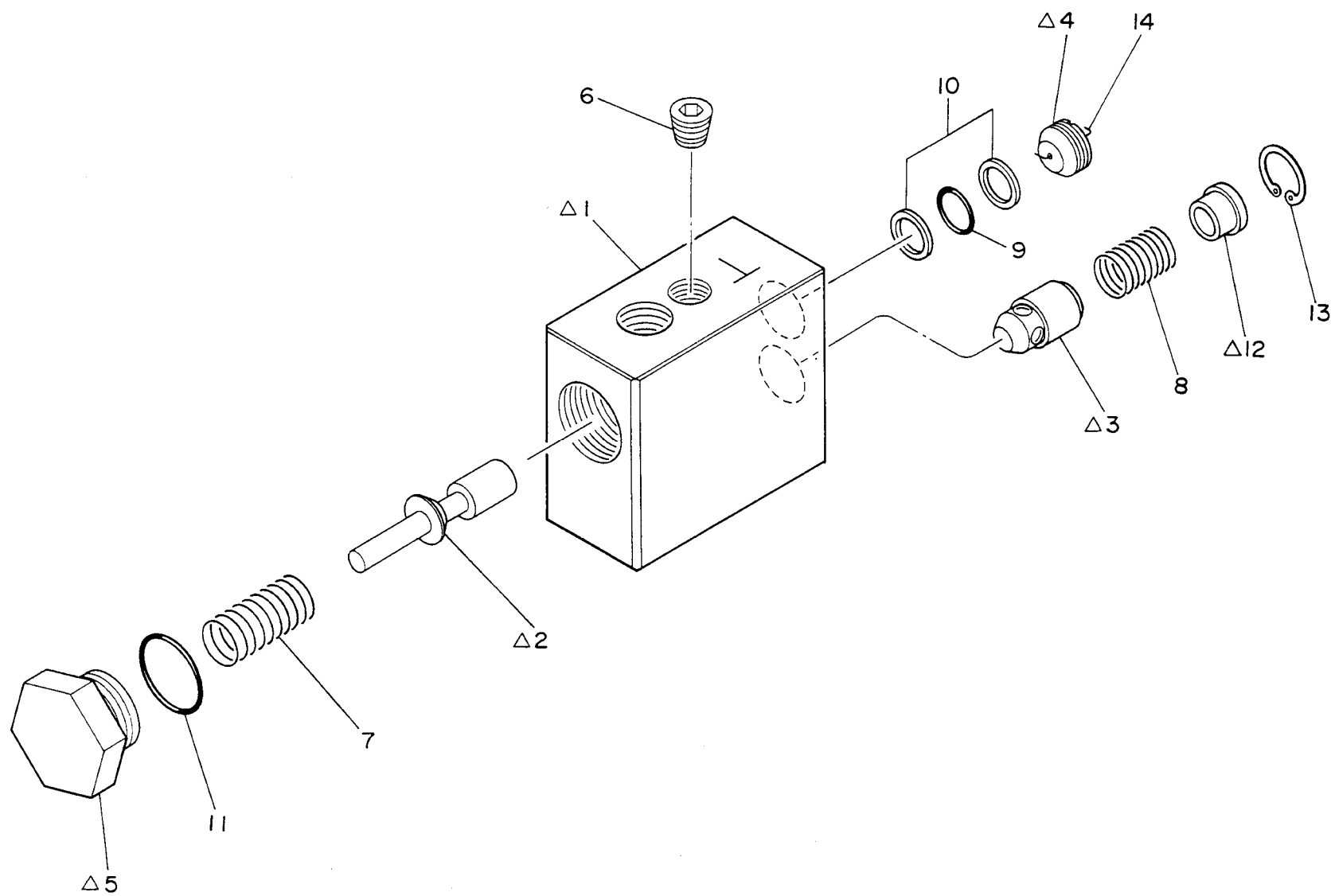


Fig. HP3 EXTENSION CYLINDER HOLDING VALVE ASS'Y (CB-03ET)

KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE	KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE
			333	334							333	334			
1~14	6014 73000	Extension cylinder holding valve Ass'y	1 set	1 set			CB-03ET								
1	☆	Body	1	1	△										
2	☆	Spool	1	1	△										
3	☆	Check valve	1	1	△										
4	☆	Orifice	1	1	△										
5	☆	Plug	1	1	△										
6	7287 20200	Plug	1	1											
7	6014 73050	Spring (1)	1	1											
8	6011 93070	Spring (2)	1	1											
9	7311 71012	Ring-"O"	1	1											
10	7321 21012	Ring-back up	2	2											
11	7311 91020	Ring-"O"	1	1											
12	☆	Seat-spring	1	1	△										
13	7241 20160	Ring-snap	1	1											
14	6014 73060	Wire	1	1											

Q.....New and old parts are interchangeable. X.....New and old parts are not interchangeable. △.....Part not for sale. D.....Disuse. Q.....Quantity

Fig. HP4 BOOM LIFT CYLINDER HOLDING VALVE ASS'Y (CB-03ED)

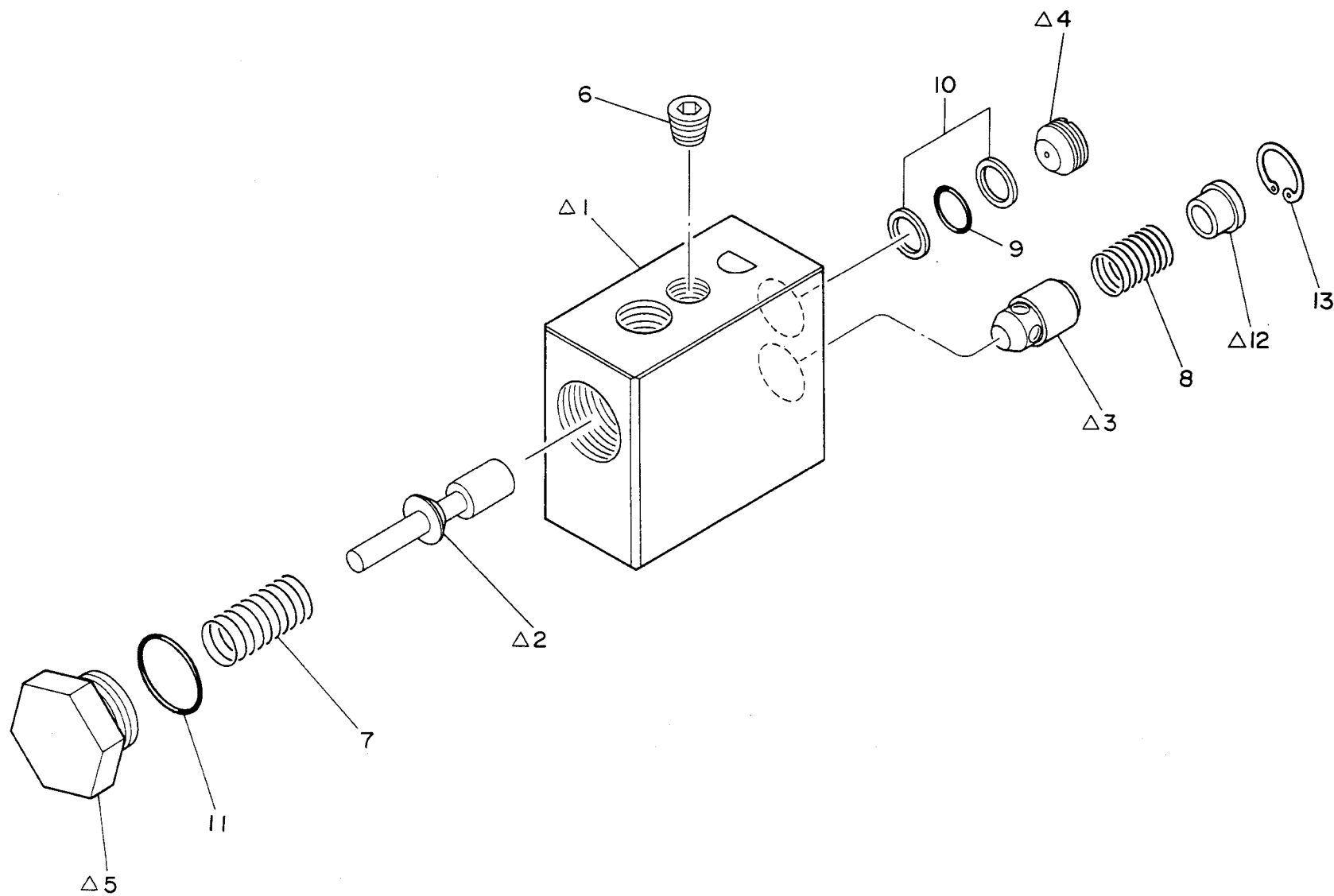


Fig. HP4 BOOM LIFT CYLINDER HOLDING VALVE ASS'Y (CB-03ED)

KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE	KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE
			333	334							333	334			
1~13	6014 74000	Boom lift cylinder holding valve Ass'y	1 set	1 set			CB-03ED								
1	☆	Body	1	1	△										
2	☆	Spool	1	1	△										
3	☆	Check valve	1	1	△										
4	☆	Orifice	1	1	△										
5	☆	Plug	1	1	△										
6	7287 20200	Plug	1	1											
7	6014 73050	Spring (1)	1	1											
8	6011 93070	Spring (2)	1	1											
9	7311 71012	Ring-"O"	1	1											
10	7321 21012	Ring-back up	2	2											
11	7311 91020	Ring-"O"	1	1											
12	☆	Seat-spring	1	1	△										
13	7241 20160	Ring-snap	1	1											

Q.....New and old parts are interchangeable. X.....New and old parts are not interchangeable. △.....Part not for sale. D.....Disuse. Q.....Quantity

Fig. HP5 RETURN FILTER ASS'Y

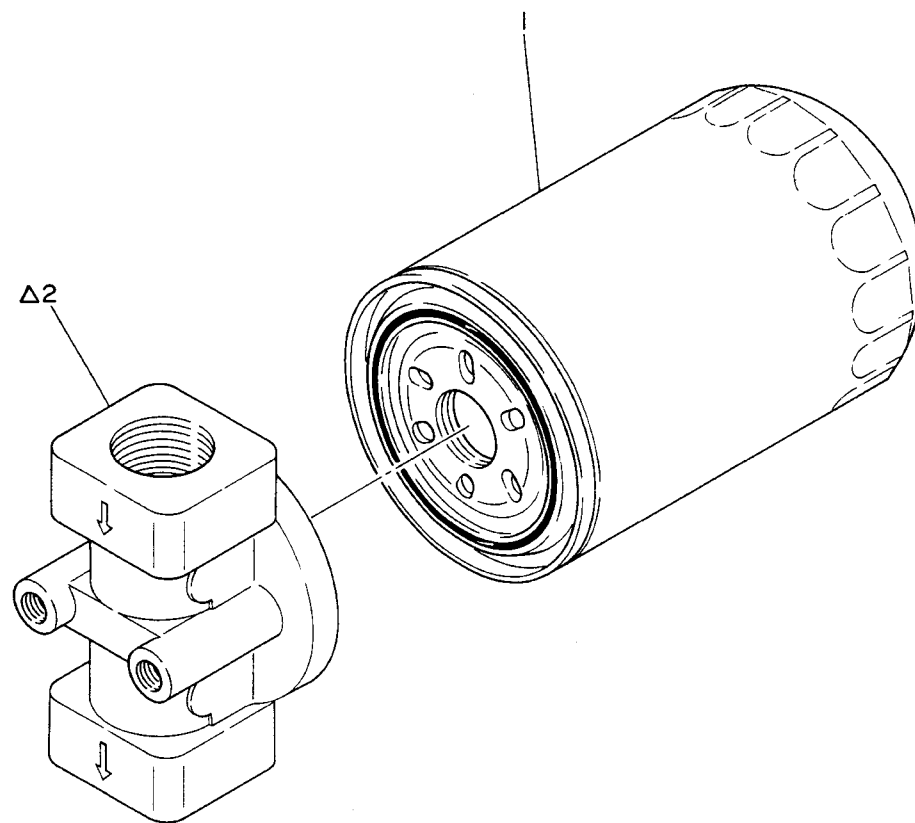


Fig. HP5 RETURN FILTER ASS'Y

KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE	KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE
			333	334							333	334			
1~2	7405 80600	Return filter Ass'y	1 set	1 set											
1	7405 80010	Filter-cartridge	1	1											
2	☆	Head	1	1	△										

Q.....New and old parts are interchangeable. X.....New and old parts are not interchangeable. △.....Part not for sale. D.....Disuse. Q.....Quantity

Fig. HP6 OUTRIGGER CYLINDER HOLDING VALVE ASS'Y (CP-03F)

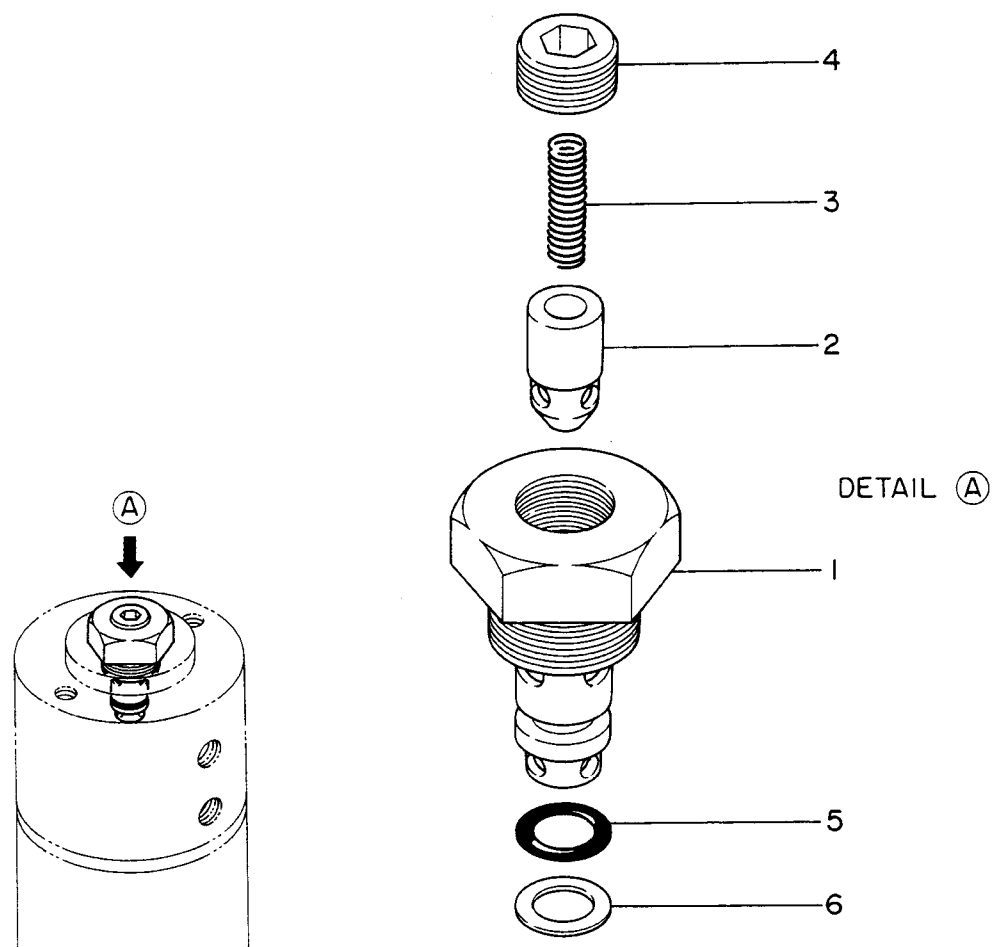


Fig. HP6 OUTRIGGER CYLINDER HOLDING VALVE ASS'Y (CP-03F)

KEY No.	PARTS No.	PARTS NAME	Q'ty		MARK	SERIAL No.	NOTE	KEY No.	PARTS No.	PARTS NAME	Q'ty		MARK	SERIAL No.	NOTE
			333	334							333	334			
1~6	6016 81000	Outrigger cylinder holding valve Ass'y	1 set	1 set			CP-03F								
1	☆	Seat-valve	1	1	△										
2	☆	Valve-check	1	1	△										
3	6013 09040	Spring	1	1											
4	7287 20300	Plug	1	1											
5	7311 71011	Ring-"O"	1	1											
6	7321 21011	Ring-back up	1	1											

Q.....New and old parts are interchangeable. X.....New and old parts are not interchangeable. △.....Part not for sale. D.....Disuse. Q.....Quantity

Fig. HP7 PILOT CHECK VALVE ASS'Y (CP-03W)

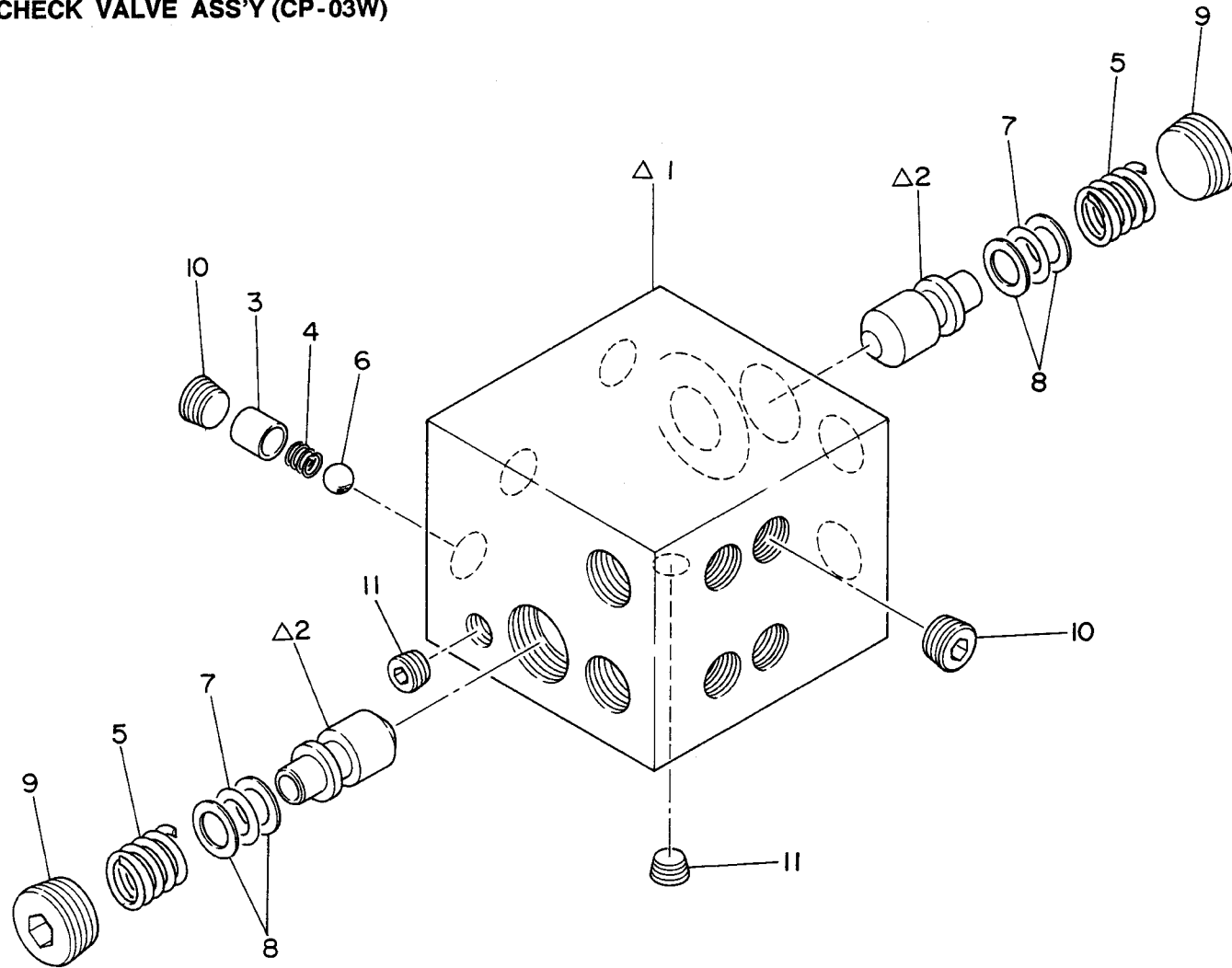


Fig. HP7 PILOT CHECK VALVE ASS'Y (CP-03W)

KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE	KEY No.	PARTS No.	PARTS NAME	Q'ty		M A R K	SERIAL No.	NOTE
			333	334							333	334			
1~11	6017 02000	Pilot check valve Ass'y	1 set	1 set			CP-03W								
1	☆	Valve body	1	1	△										
2	☆	Valve-check	2	2	△										
3	6011 78030	Seat-spring	2	2											
4	6017 02030	Spring	2	2											
5	6017 02050	Spring (2)	2	2											
6	7600 00978	Ball-steel	2	2											
7	7311 71012	Ring-"O"	2	2											
8	7321 21012	Ring-back up	4	4											
9	7287 20400	Plug	2	2											
10	7287 20200	Plug	6	6											
11	7287 20100	Plug	2	2											

Q.....New and old parts are interchangeable. X.....New and old parts are not interchangeable. △.....Part not for sale. D.....Disuse. Q.....Quantity

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