

REFERENCE CR-78874

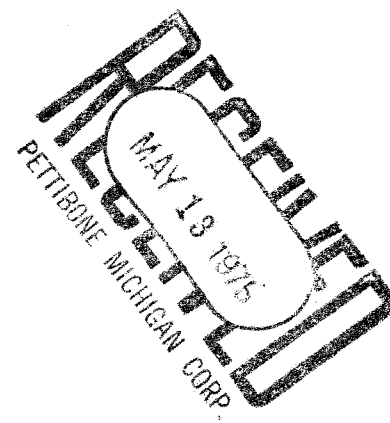
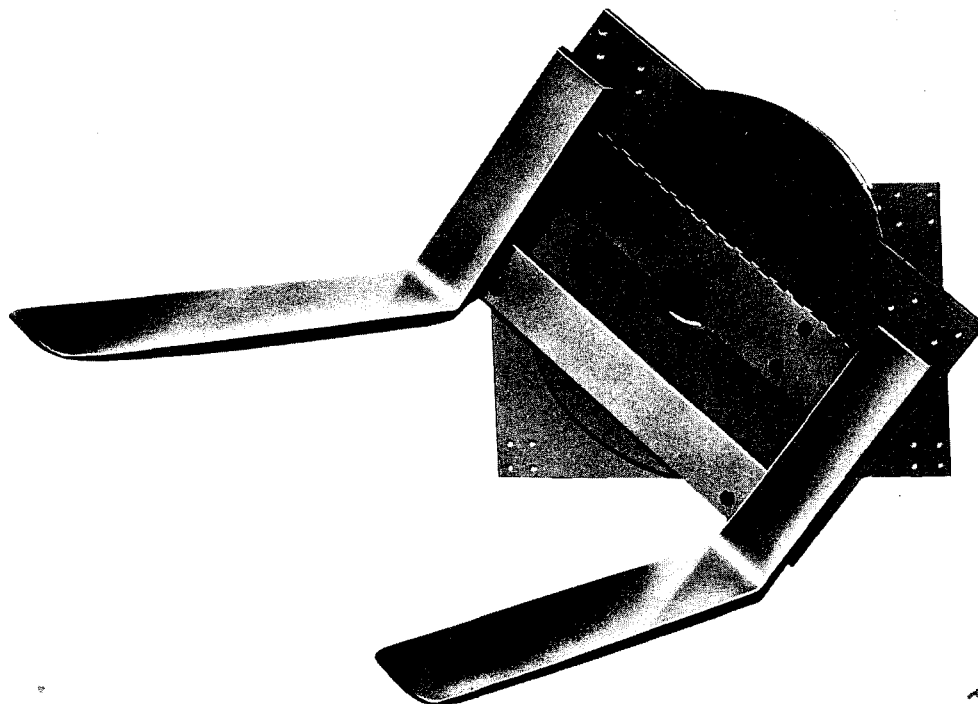
PC-105684



PARTS MANUAL

C

360° ROTATORS



cascade[®] corporation

P.O. Box 20187 • Portland, Oregon 97220 • (503) 666-1511

How To Use This Manual

1 Introduction

This manual illustrates service replacement parts for standard production Cascade 360° Rotators.

Parts manuals for Cascade Special Engineered Products (S.E.L.) will have an S.E.L. designation followed by a number stamped on the cover of the manual.

IMPORTANT: This manual is not interchangeable with an S.E.L. manual and will not reflect the special engineering of an S.E.L. product.

To locate a service replacement part in this manual, follow the steps listed below.

2 Locate Nameplate

On 360° Rotators the nameplate is riveted to the front of the revolving frame on the lower right hand side. If the nameplate is missing, all necessary information will be stamped into the revolving frame in the same location.

3 Note Catalog Number

Note the first three digits of the catalog number (such as R3R or R6R).

4 Note Serial Number (or U.I. Number)

If the nameplate has a "Unit Identification Number" (U.I. Number), note this number. If the nameplate does not have a U.I. Number, note the Serial Number.

Catalog Number Serial Number U.I. Number

TYPE 360° ROTATOR

CATALOG NUMBER R3R-A2B CUSTOMER NUMBER

SERIAL NUMBER 634367-P-34 WEIGHT

ATTACHMENT CAPACITY

POUNDS AT INCH LOAD CENTER

CASCADE CORPORATION
CORPORATE OFFICES PORTLAND, OREGON, U.S.A.

5 Refer to Serial Number Index

In this manual, the Serial Number Index is located on pages C1 thru C2.

Locate the catalog number heading (such as R3R or R6R) in the left hand column of the index. Locate the Serial Number (or U.I. Number) under this catalog heading.

NOTE: In some cases, a U.I. Number or Serial Number will be included between two other numbers. For instance the listing 634366 — 634369 includes all numbers between 634366 and 634369.

The columns to the right will list the page number for each parts group (such as cylinders, arms, frames, etc.).

Catalog Number

Serial Number	Basic Rotator	Drive Group	Adjustable Forks	Fork B. Mounting
R3R				
634366	1	2	3	3B
634369				
634370	1	2	—	3B
634371	1	2	—	—
634372	1	2	3	3B
634375				
634376	1	2	—	3B
634377	1	2	—	—
R4R				
634382	1A	2A	3	
634385				
634386	1A	2A	—	
634387	1A	2A	—	

Serial Numbers (or U.I. Number)

Page Numbers

6 Example

The nameplate gives a catalog number of R3R-A2B and a U.I. Number of 634367 (if there is no U.I. Number, 634367 will be listed as the Serial Number).

First, locate the R3R heading in the Serial Number Index. Next, locate 634367 under this heading. Since 634367 is between 634366 and 634369, use this listing. Read straight across the page to find a particular parts group for this paper roll clamp. For instance, replacement parts for the Drive Group are listed on page 2.

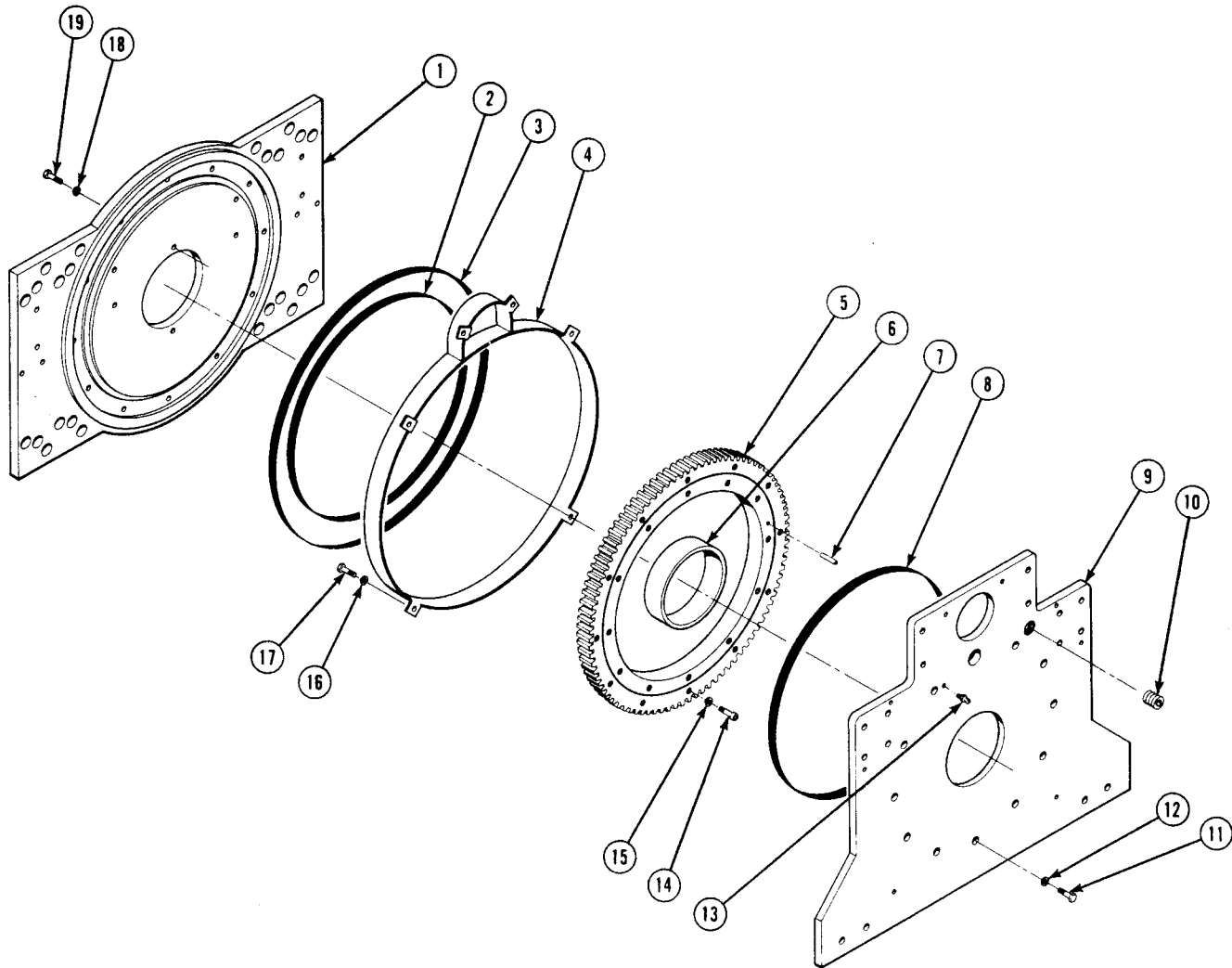
Serial Number Index

Serial Number	Basic Rotator	Drive Group	Adjustable Forks	Fork Bar Mounting	Mounting Group	180° Rotator Stop Group (Optional)
R3R						
634366 634369	1	2	3	3B	4	5
634370	1	2	—	3B	4	5
634371	1	2	—	—	4	5
634372 634375	1	2	3	3B	4	5
634376	1	2	—	3B	4	5
634377	1	2	—	—	4	5
R4R						
634382 634385	1A	2A	3	3B	4A	5
634386	1A	2A	—	3B	4A	5
634387	1A	2A	—	—	4A	5
634388 634391	1A	2A	3	3B	4A	5
634392	1A	2A	—	3B	4A	5
634393	1A	2A	—	—	4A	5
634394 634397	1A	2A	3	3B	4A	5
634398	1A	2A	—	3B	4A	5
634399 634402	1A	2A	3	3B	4A	5
634403	1A	2A	—	3B	4A	5
634404 634405	1A	2A	—	—	4B	5
639929 639944	1A	2A	3	3B	4B	5
639997 639999	1A	2A	—	3B	4B	5
R6R						
634410 634413	1B	2A	3A	3B	4A	5
634414	1B	2A	—	3B	4A	5
634415	1B	2A	—	—	4A	5
634416 634419	1B	2A	3A	3B	4A	5
634420	1B	2A	—	3B	4A	5
634421	1B	2A	—	—	4A	5
634422 634425	1B	2A	3A	3B	4A	5
634426	1B	2A	—	3B	4A	5
634427 634430	1B	2A	3A	3B	4A	5
634431	1B	2A	—	3B	4A	5
641985 641988	1B	2A	3A	3B	4C	5
641989	1B	2A	—	3B	4C	5

Serial Number Index

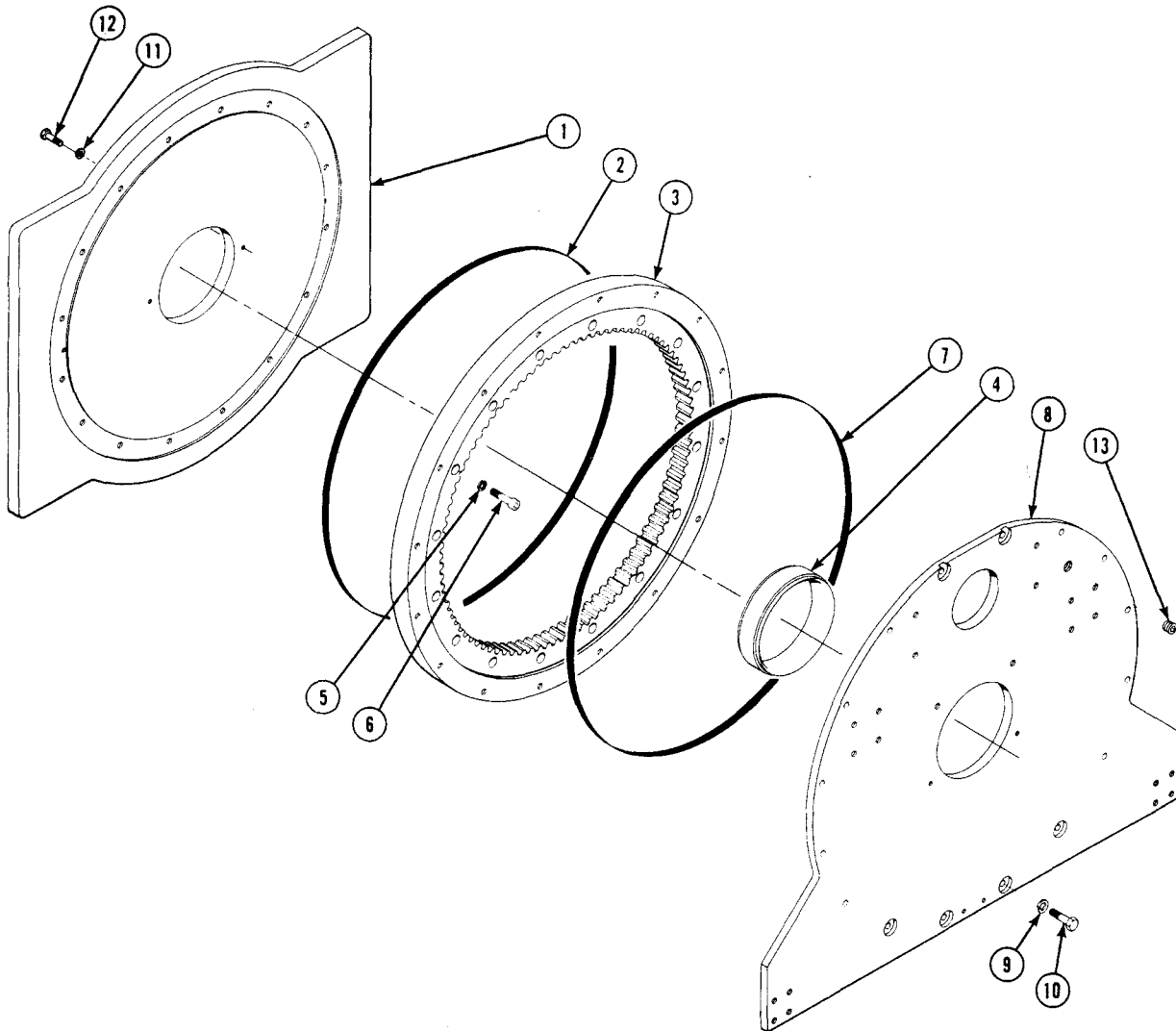
Serial Number	Basic Rotator	Drive Group	Adjustable Forks	Fork Bar Mounting	Mounting Group	180° Rotator Stop Group (Optional)
R6R (Contd)						
641990	1B	2A	—	—	4C	5
641991 641994	1B	2A	3A	3B	4C	5
641995	1B	2A	—	3B	4C	5
641996	1B	2A	—	—	4C	5
641997 642000	1B	2A	3A	3B	4C	5
642001	1B	2A	—	3B	4C	5
642002 642005	1B	2A	3A	3B	4C	5
642006	1B	2A	—	3B	4C	5
R7R						
634434 634436	1	2B	3A	3B	4D	5
634437	1	2B	—	3B	4D	5
634438	1	2B	—	—	4D	5
634439 634441	1	2B	3A	3B	4D	5
634442	1	2B	—	3B	4D	5
634443 634445	1	2B	3A	3B	4D	5
634446	1	2B	—	3B	4D	5
R8R						
634447	1A	2B	—	—	—	5

Rotator Group



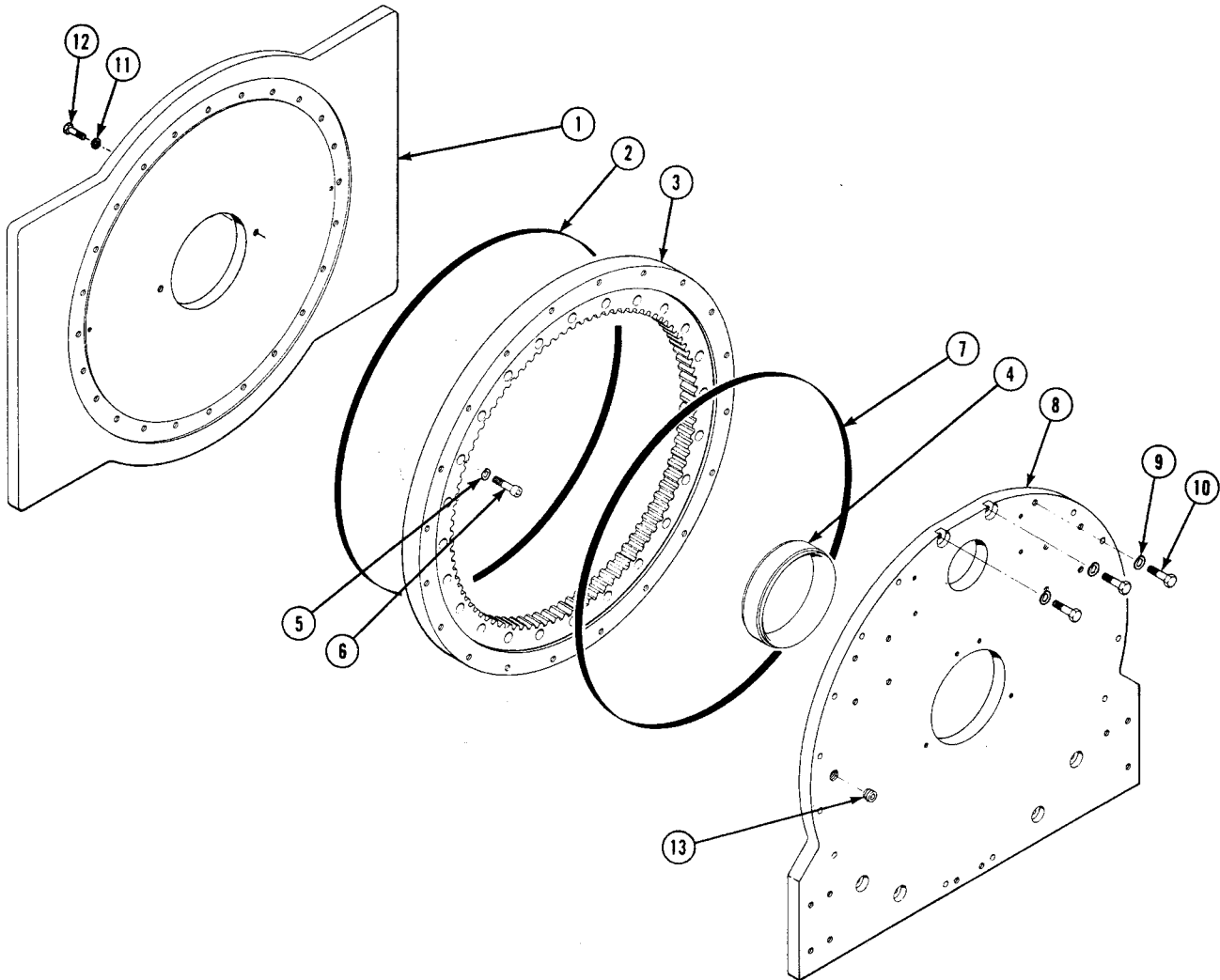
R3R							
REF. NO.	QTY.	PART NO.	DESCRIPTION	REF. NO.	QTY.	PART NO.	DESCRIPTION
		C-633802	Rotator Group	10	1	C-6611	Plug
1	1	C-625395	Faceplate	11	12	C-636407	Capscrew
2	1	C-625398	Seal-Inner	12	12	C-6290	Lockwasher
3	1	C-625396	Seal-Outer	13	1	C-7401	Grease Fitting
4	1	C-625403	Guard	14	12	C-4506	Capscrew
5	1	C-656302	Bearing Assembly	15	12	C-6374	Lockwasher
6	1	C-631264	Seal	16	6	C-6288	Lockwasher
7	1	C-7890	Roll Pin	17	6	C-3602	Capscrew
8	1	C-625402	Seal	18	2	C-6287	Lockwasher
9	1	C-633803	Baseplate	19	2	C-3573	Capscrew

Rotator Group



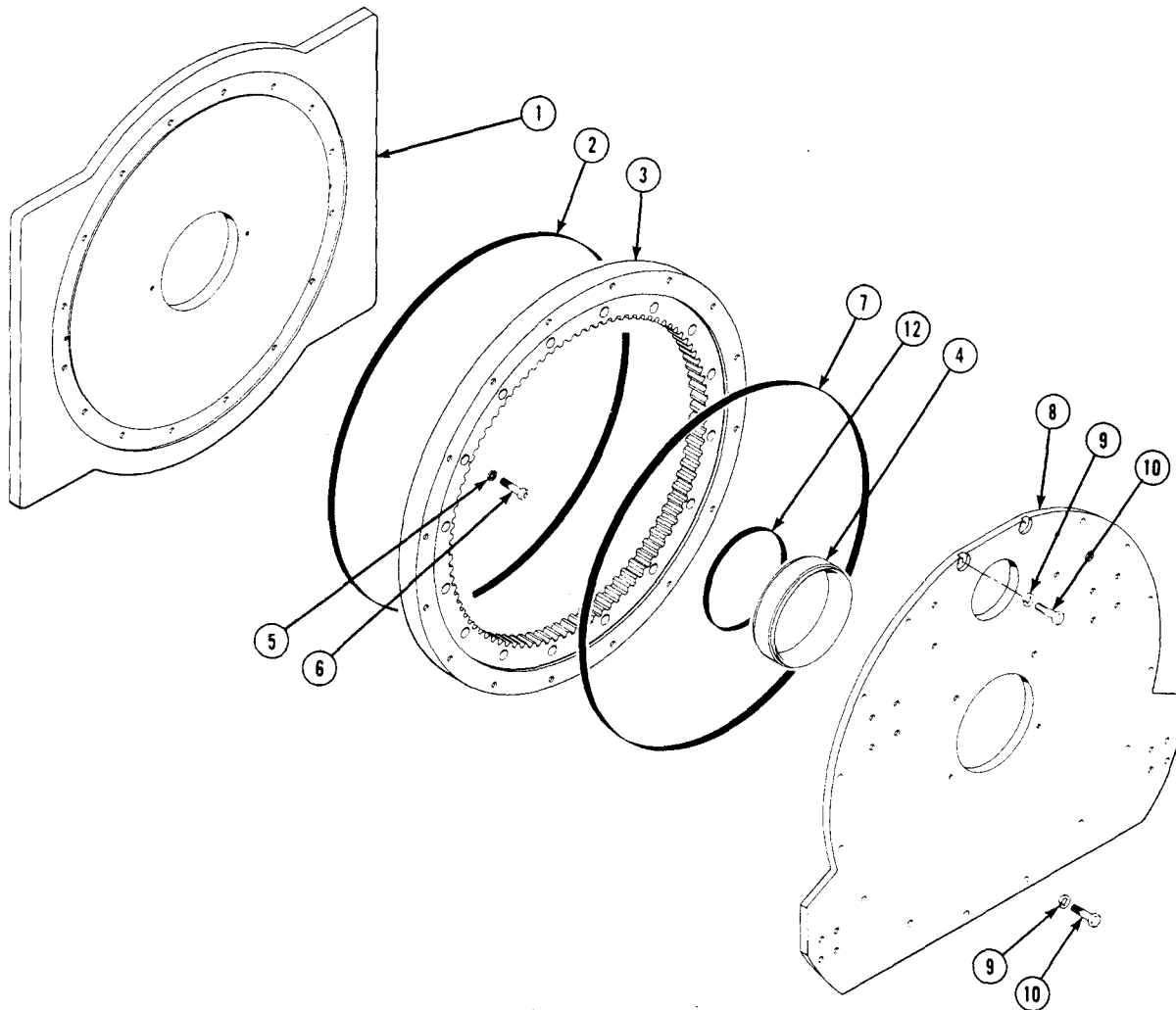
R4R							
REF. NO.	QTY.	PART NO.	DESCRIPTION	REF. NO.	QTY.	PART NO.	DESCRIPTION
		C-633685	Rotator Group	7	1	C-622123	Seal
1	1	C-622110	Faceplate	8	1	C-633684	Baseplate
2	1	C-622112	Seal	9	16	C-6290	Lockwasher
3	1	C-656332	Bearing Assembly	10	16	C-636407	Capscrew
4	1	C-631264	Seal	11	4	C-6287	Lockwasher
5	16	C-6374	Lockwasher	12	4	C-3573	Capscrew
6	16	C-4506	Capscrew	13	1	C-6611	Plug

Rotator Group



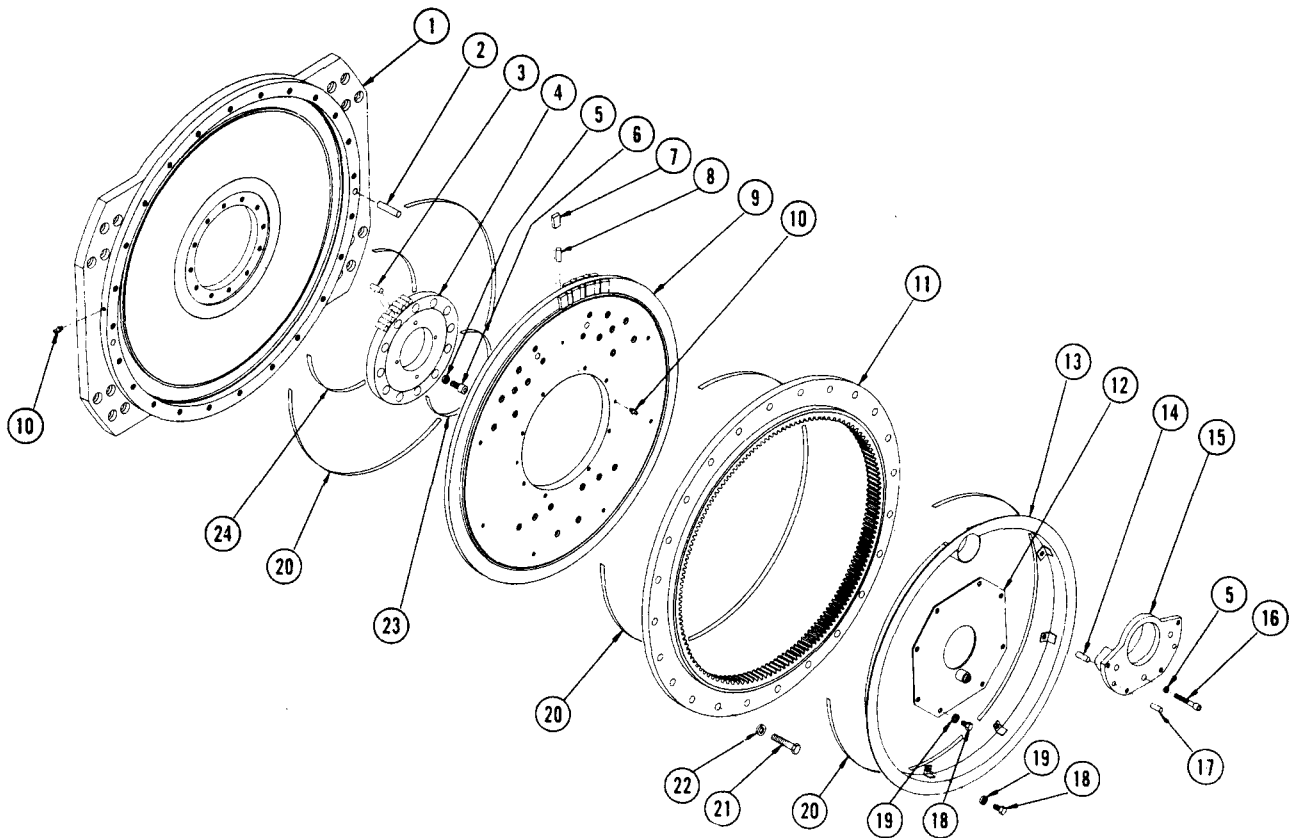
R6R							
REF. NO.	QTY.	PART NO.	DESCRIPTION	REF. NO.	QTY.	PART NO.	DESCRIPTION
		C-633703	Rotator Group	7	1	C-625515	Seal
1	1	C-633705	Faceplate	8	1	C-646310	Baseplate
2	1	C-625527	Seal	9	20	C-6290	Lockwasher
3	1	C-646289	Bearing Assembly	10	20	C-636407	Capscrew
4	1	C-631264	Seal	11	4	C-6287	Lockwasher
5	24	C-6374	Lockwasher	12	4	C-3573	Capscrew
6	24	C-4506	Capscrew	13	1	C-6611	Plug

Rotator Group



R7R							
REF. NO.	QTY.	PART NO.	DESCRIPTION	REF. NO.	QTY.	PART NO.	DESCRIPTION
		C-628327	Rotator Group	7	1	C-622161	Seal
1	1	C-622154	Faceplate	8	1	C-628313	Baseplate
2	1	C-622157	Seal	9	16	C-6294	Lockwasher
3	1	C-656493	Bearing Assembly	10	2	C-638221	Capscrew
4	1	C-628444	Seal	11	14	C-638599	Capscrew
5	16	C-6448	Lockwasher	12	1	C-628445	Seal
6	16	C-607105	Capscrew				

Rotator



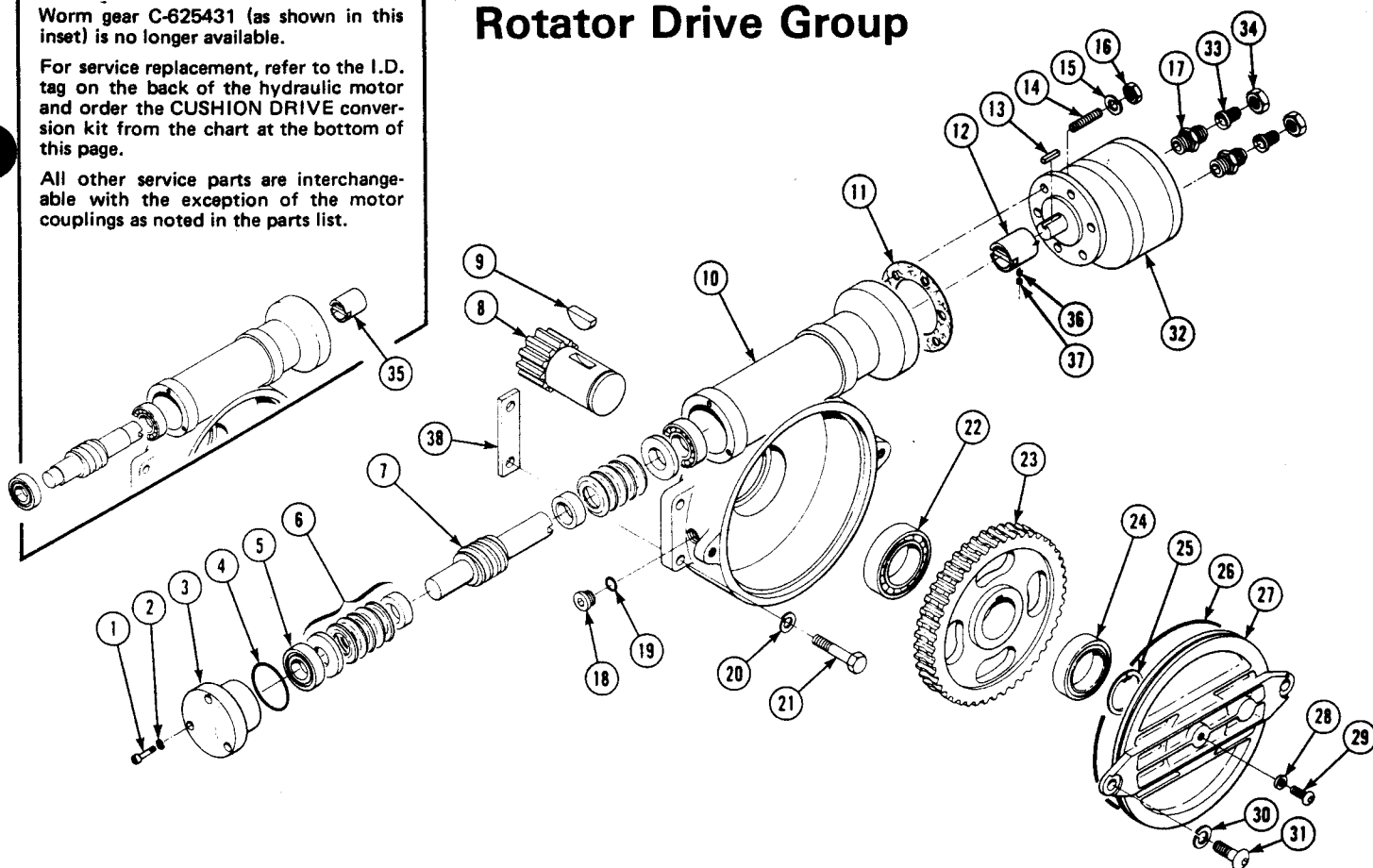
R8R							
REF. NO.	QTY.	PART NO.	DESCRIPTION	REF. NO.	QTY.	PART NO.	DESCRIPTION
		C-625243	Rotator Group	13	1	C-601354	Guard
1	1	C-603010	Face Plate	14	2	C-14586	Dowel
2	2	C-601344	Dowel	15	1	C-603007	Drive Bracket
3	100	C-601353	Roller	16	5	C-607111	Capscrew
4	1	C-603008	Hub	17	2	C-603023	Dowel
5	17	C-6377	Lockwasher	18	15	C-3253	Capscrew
6	12	C-607105	Capscrew	19	15	C-6288	Lockwasher
7	180	C-601349	Spacer	20	3	C-601355	Seal
8	180	C-601350	Roller	21	24	C-3418	Capscrew
9	1	C-603009	Base Plate	22	24	C-6296	Lockwasher
10	4	C-7401	Grease Fitting	23	1	C-601352	Seal
11	1	C-601357	Ring Gear	24	1	C-601652	Seal
12	1	C-601351	Retainer				

Worm gear C-625431 (as shown in this inset) is no longer available.

For service replacement, refer to the I.D. tag on the back of the hydraulic motor and order the CUSHION DRIVE conversion kit from the chart at the bottom of this page.

All other service parts are interchangeable with the exception of the motor couplings as noted in the parts list.

Rotator Drive Group



REF. NO.	QTY.	PART NO.	DESCRIPTION	REF. NO.	QTY.	PART NO.	DESCRIPTION
1	3	C-4441	Capscrew	20	4	C-6290	Lockwasher
2	3	C-6370	Lockwasher	21	4	C-3655	Capscrew
3	1	C-625428	End Cap	22	1	C-13661	Bearing
4	1	C-2787	O-Ring	23	1	C-625430	Gear
5	2	C-13663	Bearing	24	1	C-13662	Bearing
*6	*1	C-656489	Spring Washer Serv. Kit	25	1	C-7204	Snap Ring
7	1	C-656490	Worm	26	1	C-2833	O-Ring
8	1	C-638600	Pinion	27	1	C-642599	Cover
9	1	C-13654	Key	28	2	C-6292	Lockwasher
10	1	C-625429	Case	29	2	C-4884	Capscrew
11	1	C-632253	Gasket	30	1	C-603680	Seal
**12	1	C-655598	Coupling	31	1	C-4874	Capscrew
13	1	C-625434	Key	32	1	†	Motor
14	6	C-610392	Studs	33	2	C-2671	Adapter
15	6	C-6288	Lockwasher	34	2	C-2618	Nut
16	6	C-5702	Nut	***35	1	C-630414	Coupling
17	2	C-2313	Male Connector	36	1	C-4966	Setscrew
18	1	C-602580	Plug	37	1	C-617801	Setscrew-Locking
19	1	C-2841	O-Ring	38	4	C-629116	Spacer

*Included with worm.

**Use only with cushion rotator drive group (spring loaded worm).

***Use only with standard rotator drive group.

†For hydraulic motor replacement, refer to the I.D. tag on the back of the motor and order the corresponding motor part no. as listed below.

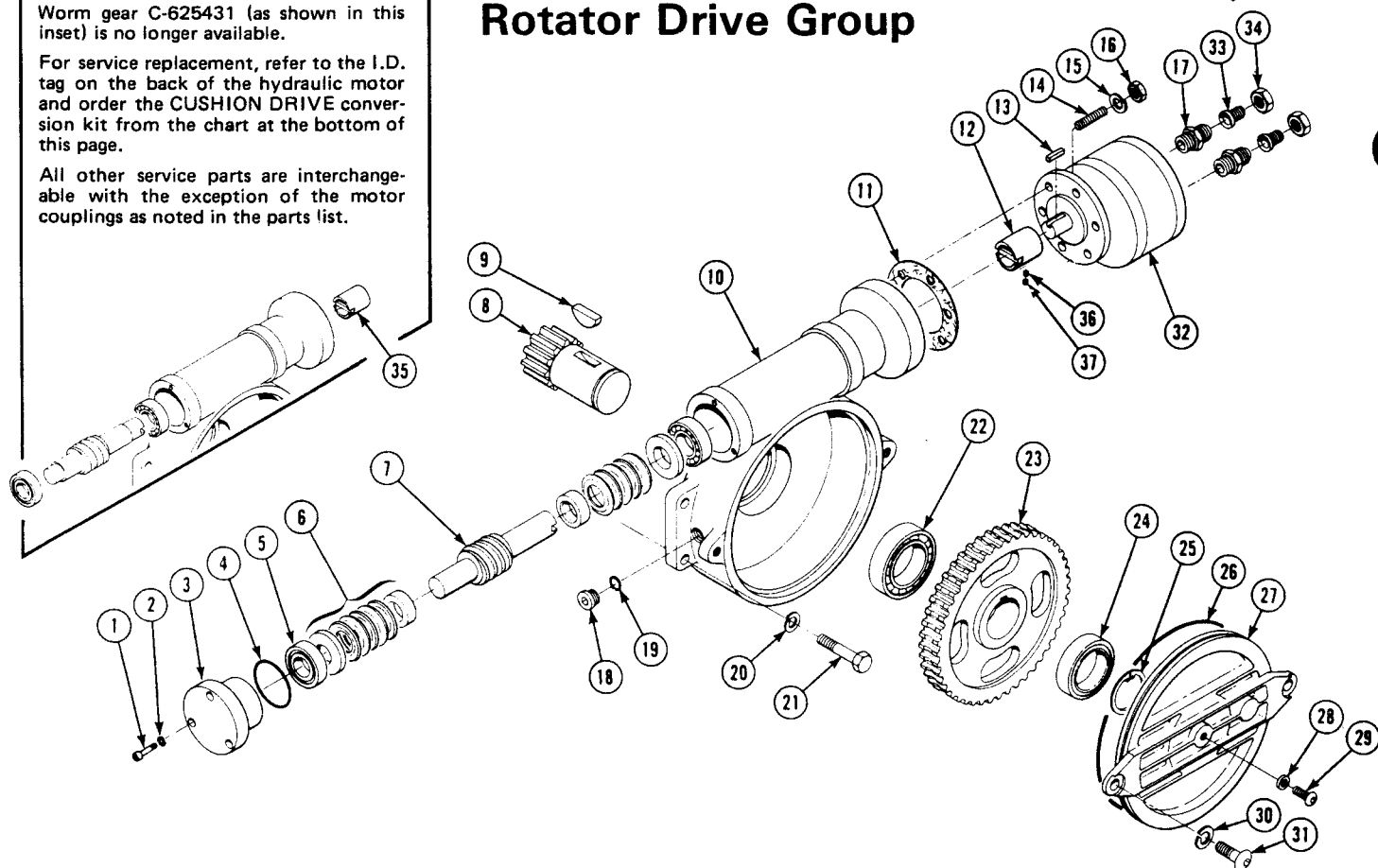
MOTOR I.D. NO.	MOTOR PART NO.	CUSHION DRIVE CONVERSION KIT NO.	MOTOR I.D. NO.	MOTOR PART NO.	CUSHION DRIVE CONVERSION KIT NO.
2 MO 12	C-646212	C-656491	2 MO 28	C-14322	C-656491
2 MO 19	C-15016	C-656491	3 MO 33	C-15017	C-656492
2 MO 23	C-655968	C-656491			

Worm gear C-625431 (as shown in this inset) is no longer available.

For service replacement, refer to the I.D. tag on the back of the hydraulic motor and order the CUSHION DRIVE conversion kit from the chart at the bottom of this page.

All other service parts are interchangeable with the exception of the motor couplings as noted in the parts list.

Rotator Drive Group



REF. NO.	QTY.	PART NO.	DESCRIPTION	REF. NO.	QTY.	PART NO.	DESCRIPTION
1	3	C-4441	Capscrew	20	4	C-6290	Lockwasher
2	3	C-6370	Lockwasher	21	4	C-3654	Capscrew
3	1	C-625428	End Cap	22	1	C-13661	Bearing
4	1	C-2787	O-Ring	23	1	C-625430	Gear
5	2	C-13663	Bearing	24	1	C-13662	Bearing
*6	*1	C-656489	Spring Washer Serv. Kit	25	1	C-7204	Snap Ring
7	1	C-656490	Worm	26	1	C-2833	O-Ring
8	1	C-638600	Pinion	27	1	C-642599	Cover
9	1	C-13654	Key	28	2	C-6292	Lockwasher
10	1	C-625429	Case	29	2	C-4884	Capscrew
11	1	C-632253	Gasket	30	1	C-603680	Seal
**12	1	C-655598	Coupling	31	1	C-4874	Capscrew
13	1	C-625434	Key	32	1	†	Motor
14	6	C-610392	Studs	33	2	C-2671	Adapter
15	6	C-6288	Lockwasher	34	2	C-2618	Nut
16	6	C-5702	Nut	***35	1	C-630414	Coupling
17	2	C-2313	Male Connector	36	1	C-4966	Setscrew
18	1	C-602580	Plug	37	1	C-617801	Setscrew-Locking
19	1	C-2841	O-Ring				

*Included with worm.

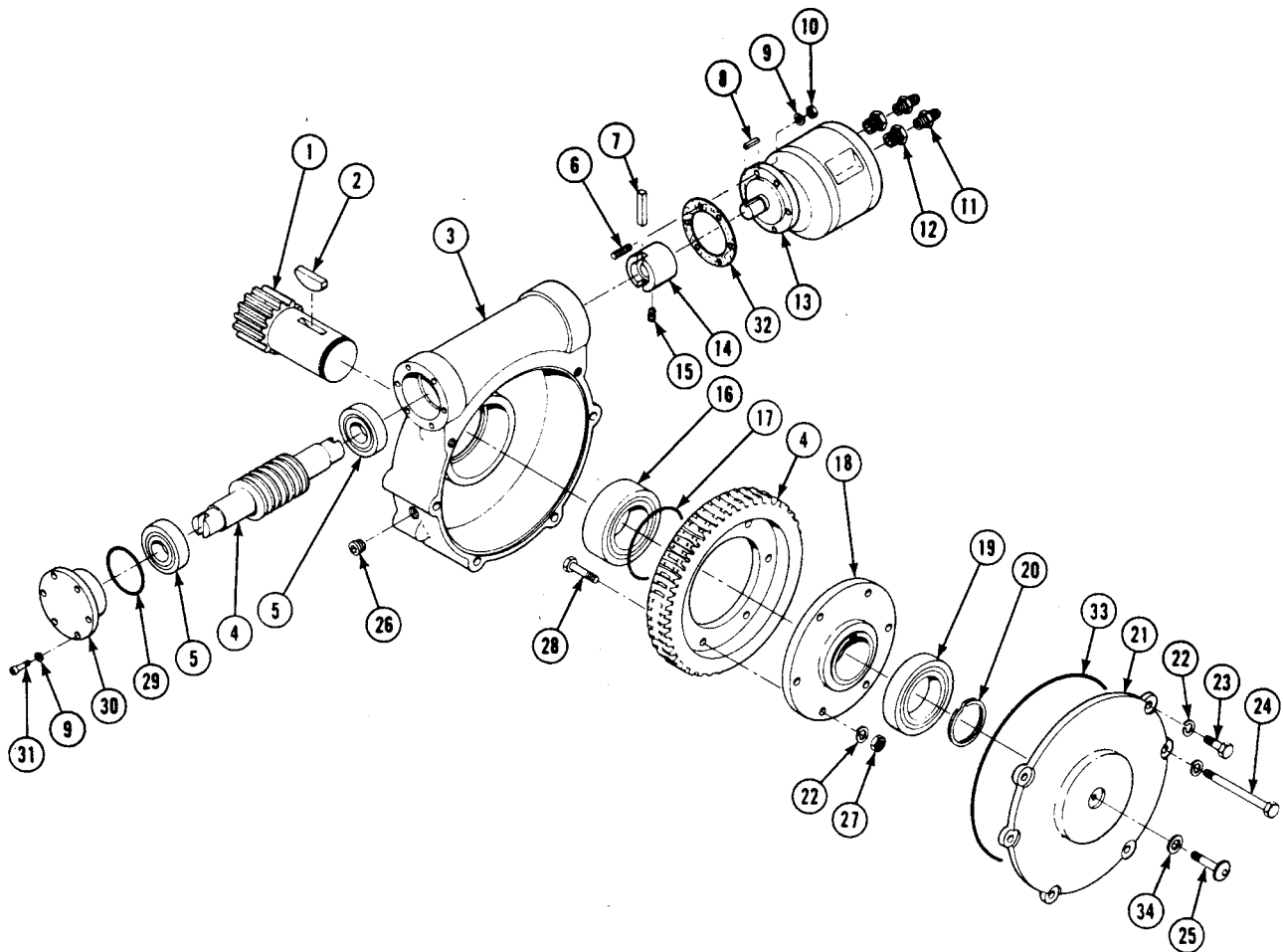
**Use only with cushion rotator drive group (spring loaded worm).

***Use only with standard rotator drive group.

†For hydraulic motor replacement, refer to the I.D. tag on the back of the motor and order the corresponding motor part no. as listed below.

MOTOR I.D. NO.	MOTOR PART NO.	CUSHION DRIVE CONVERSION KIT NO.	MOTOR I.D. NO.	MOTOR PART NO.	CUSHION DRIVE CONVERSION KIT NO.
2 MO 12	C-646212	C-656491	2 MO 28	C-14322	C-656491
2 MO 19	C-15016	C-656491	3 MO 33	C-15017	C-656492
2 MO 23	C-655968	C-656491			

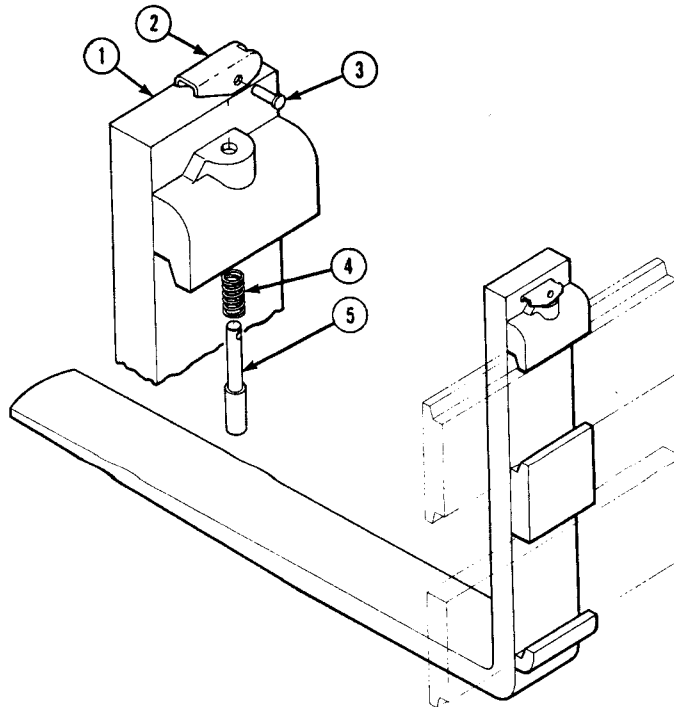
Rotator Drive Group



R7R & R8R							
REF. NO.	QTY.	PART NO.	DESCRIPTION	REF. NO.	QTY.	PART NO.	DESCRIPTION
1	1	C-622147	Pinion	18	1	C-603005	Hub
2	1	C-601634	Key	19	1	C-13665	Bearing
3	1	C-642600	Case	20	1	C-7219	Snap Ring
*4	1	C-659193	Worm & Gear	21	1	C-643131	Cover
5	2	C-13664	Bearing	22	4	C-6292	Lockwasher
6	6	C-601392	Stud	23	2	C-3357	Cap screw
7	1	C-601289	Key	24	4	C-3372	Cap screw—R7R only
8	1	C-14330	Key	25	1	C-603003	Cap screw—R8R only
9	12	C-6288	Lockwasher	26	1	C-4884	Cap screw
10	6	C-5702	Nut	27	6	C-602850	Plug
11	2	C-2314	Connector	28	6	C-5706	Nut
12	2	C-6778	Bushing	29	1	C-601283	Cap screw
13	1	C-601291	Motor—R7R only	30	1	C-2794	O-Ring
		C-602173	Motor—R8R only	31	6	C-601286	Retainer
14	1	C-601292	Coupling	32	1	C-3253	Cap screw
15	1	C-4981	Setscrew	33	1	C-632253	Gasket
16	1	C-13666	Bearing	34	1	C-632258	O-Ring
17	1	C-2813	O-Ring			C-632257	Seal

*Serviced as a matched set.

Adjustable Forks

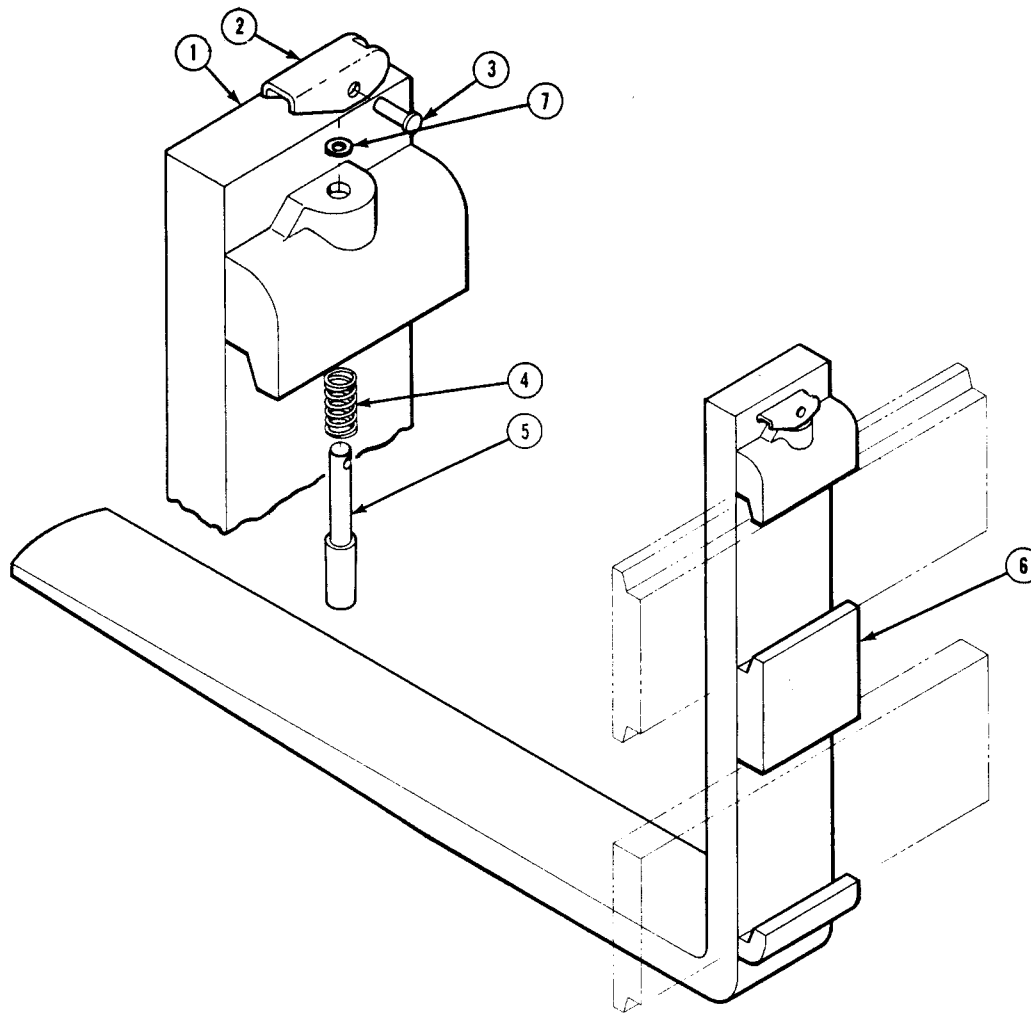


REF. NO.	QTY.	R3R				DESCRIPTION
		30"	36"	42"	48"	
		PART NO.	PART NO.	PART NO.	PART NO.	
		C-633042	C-633043	C-633044	C-633045	Fork Assembly
1	1	C-645602	C-645603	C-645604	C-645605	Fork
2	1	C-622897	C-622897	C-622897	C-622897	Handle
3	1	C-8007	C-8007	C-8007	C-8007	Rivet
4	1	C-622908	C-622908	C-622908	C-622908	Spring
5	1	C-622907	C-622907	C-622907	C-622907	Pin
6	1	C-608585	C-608585	C-608585	C-608585	Hook

REF. NO.	QTY.	R4R				DESCRIPTION
		36"	42"	48"	54"	
		PART NO.	PART NO.	PART NO.	PART NO.	
		C-615329	C-615330	C-615331	C-615332	Fork Assembly
1	1	C-645606	C-645607	C-645608	C-645609	Fork
2	1	C-622897	C-622897	C-622897	C-622897	Handle
3	1	C-8007	C-8007	C-8007	C-8007	Rivet
4	1	C-622908	C-622908	C-622908	C-622908	Spring
5	1	C-622907	C-622907	C-622907	C-622907	Pin
6	1	C-606508	C-606508	C-606508	C-606508	Hook

REF. NO.	QTY.	R4R Forks Used with Class III Mounting				DESCRIPTION
		36"	42"	48"	54"	
		PART NO.	PART NO.	PART NO.	PART NO.	
		C-639906	C-639907	C-639908	C-639909	Fork Assembly
1	1	C-645610	C-645611	C-645611	C-645613	Fork
2	1	C-622897	C-622897	C-622897	C-622897	Handle
3	1	C-8007	C-8007	C-8007	C-8007	Rivet
4	1	C-622908	C-622908	C-622908	C-622908	Spring
5	1	C-622907	C-622907	C-622907	C-622907	Pin
6	1	C-606508	C-606508	C-606508	C-606508	Hook

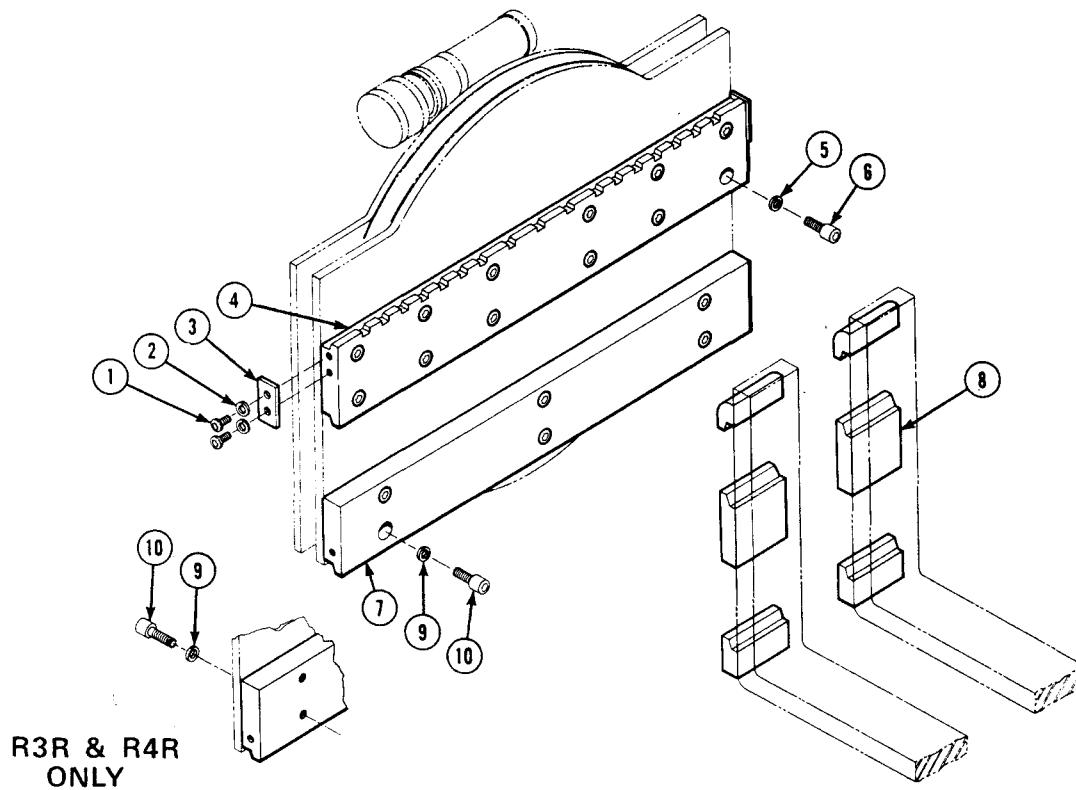
Adjustable Forks



REF. NO.	QTY.	R6R				DESCRIPTION
		42"	48"	54"	60"	
		PART NO.	PART NO.	PART NO.	PART NO.	
		C-615333	C-615334	C-615335	C-615336	Fork Assembly
1	1	C-645614	C-645615	C-645616	C-645617	Fork
2	1	C-622897	C-622897	C-622897	C-622897	Handle
3	1	C-8007	C-8007	C-8007	C-8007	Rivet
4	1	C-622898	C-622898	C-622898	C-622898	Spring
5	1	C-622899	C-622899	C-622899	C-622899	Pin
6	1	C-606993	C-606993	C-606993	C-606993	Hook

REF. NO.	QTY.	R7R			DESCRIPTION
		48"	60"	72"	
		PART NO.	PART NO.	PART NO.	
		C-633708	C-633709	C-633710	Fork Assembly
1	1	C-646988	C-646989	C-646990	Fork
2	1	C-622897	C-622897	C-622897	Handle
3	1	C-8007	C-8007	C-8007	Rivet
4	1	C-633668	C-633668	C-633668	Spring
5	1	C-633670	C-633670	C-633670	Pin
6	1	C-633671	C-633671	C-633671	Hook
7	1	C-633669	C-633669	C-633669	Washer

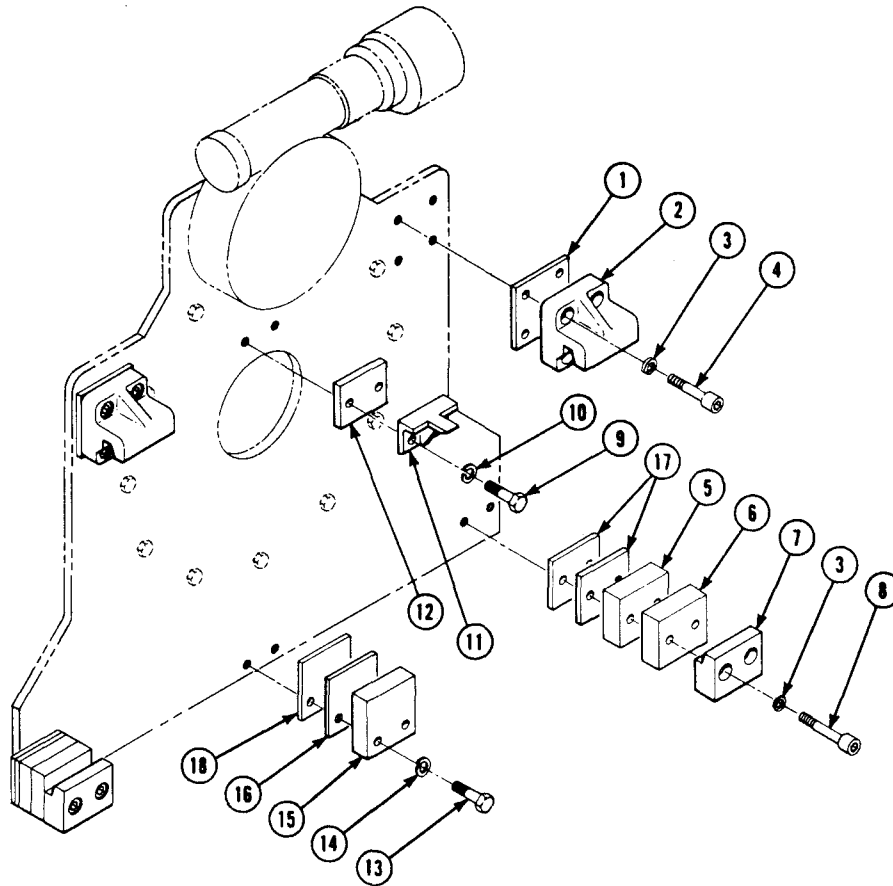
Fork Bar Mounting



REF. NO.	QTY.	R3R	R4R		DESCRIPTION
		32"	37"	45"	
		PART NO.	PART NO.	PART NO.	
		C-625459	C-625493	C-625494	Fork Bar Mounting Group
1	4	C-4880	C-4880	C-4880	Capscrew
2	—	Not Used	Not Used	Not Used	Lockwasher
3	2	C-624394	C-624394	C-624394	Keeper
4	1	C-625457	C-625495	C-625497	Upper Bar
5	12	C-6447	C-6448	C-6448	Lockwasher
6	12	C-607084	C-607102	C-607102	Capscrew
7	1	C-625458	C-625496	C-625498	Lower Bar
8	2	C-608585	C-606508	C-606508	Hook
9	6	C-3655	C-607102	C-607102	Capscrew
10	6	C-6393	C-6448	C-6448	Lockwasher

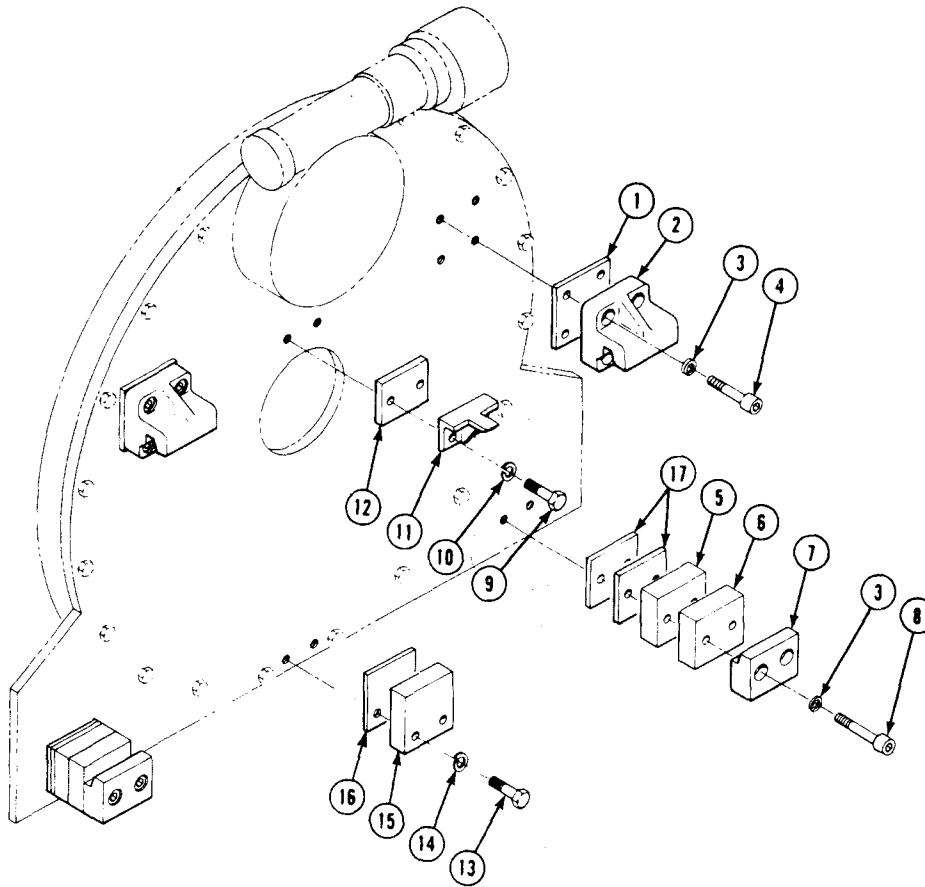
REF. NO.	QTY.	R6R		R7R			DESCRIPTION
		42"	60"	49"	61"	73"	
		PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	
		C-625523	C-625524	C-622149	C-622150	C-622151	Fork Bar Mounting Group
1	4	C-4880	C-4880	C-4880	C-4880	C-4880	Capscrew
2	4	Not Used	Not Used	C-6290	C-6290	C-6290	Lockwasher
3	2	C-606988	C-606988	C-622148	C-622148	C-622148	Keeper
4	1	C-625525	C-625527	C-622611	C-622612	C-622613	Upper Bar
5	24	C-6448	C-6448	C-6448	C-6448	C-6448	Lockwasher
6	24	C-607103	C-607103	C-607106	C-607106	C-607106	Capscrew
7	1	C-625526	C-625528	C-622614	C-622615	C-622616	Lower Bar
8	2	C-606993	C-606993	C-633671	C-633671	C-633671	Hook
9	12	C-607103	C-607103	C-607106	C-607106	C-607106	Capscrew
10	12	C-6448	C-6448	C-6448	C-6448	C-6448	Lockwasher

Mounting



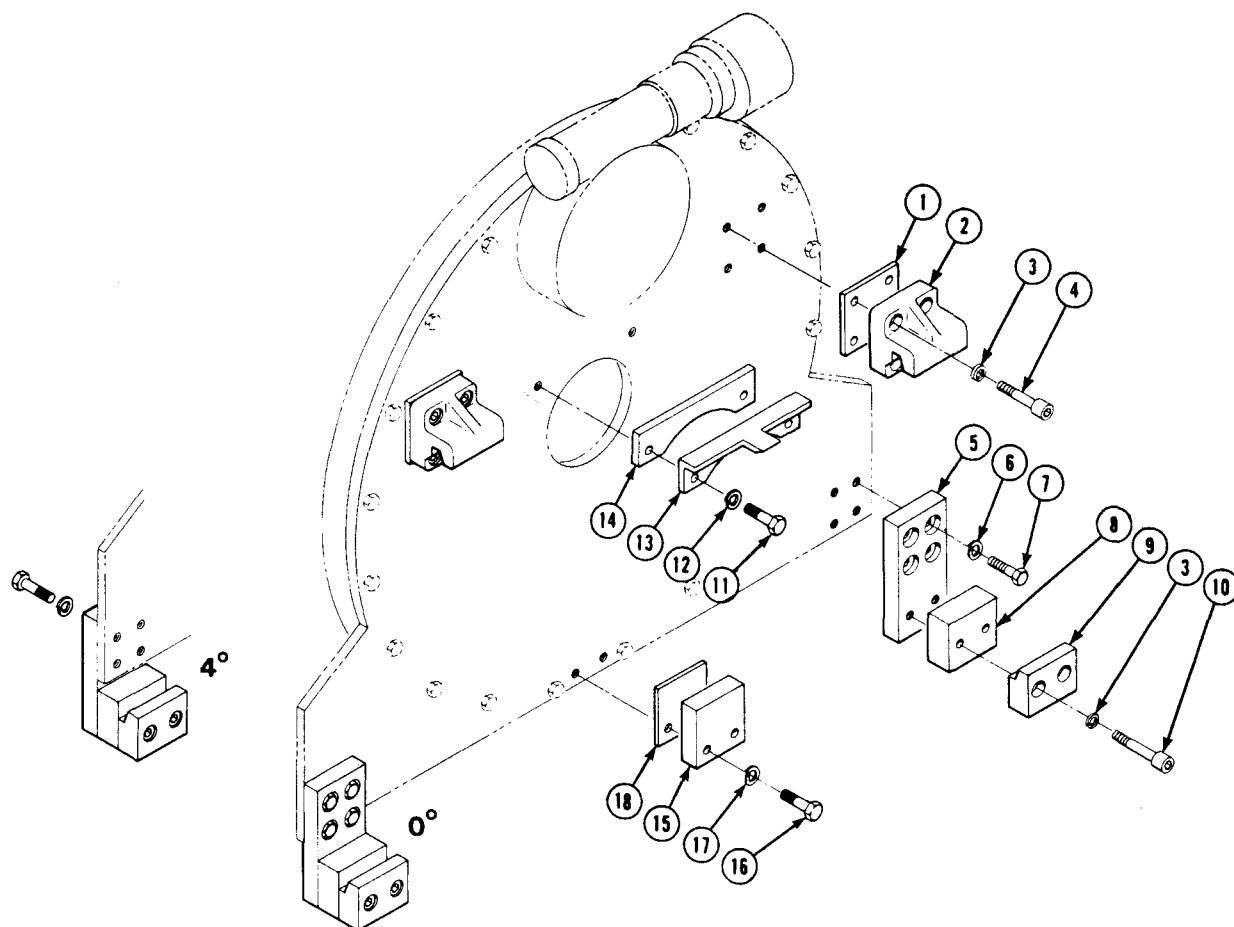
R3R - Class II					
REF. NO.	0° Mounting Angle		4° Mounting Angle		DESCRIPTION
	Qty.	Part No.	Qty.	Part No.	
		C-627445		C-624906	Mounting Group
1	8	C-630519	4	C-630519	Spacer
2	2	C-625447	2	C-625447	Upper Hook
3	12	C-6447	12	C-6447	Lockwasher
4	8	C-607088	8	C-607087	Capscrew
5	2	C-632904	—	Not used	Spacer
6	2	C-627369	4	C-627369	Pad
7	2	C-625450	2	C-625450	Lower Hook
8	4	C-607094	4	C-607089	Capscrew
9	2	C-3658	2	C-3656	Capscrew
10	2	C-6290	2	C-6290	Lockwasher
11	1	C-625448	1	C-625448	Centering Bracket
12	2	C-627603	1	C-627603	Spacer
13	2	C-3613	2	C-3606	Capscrew
14	2	C-6288	2	C-6288	Lockwasher
15	1	C-638975	2	C-638981	Pad Center
16	1	C-638981	1	C-640510	Pad
17	2	C-640499	4	C-640499	Spacer
18	1	C-640510	—	—	Spacer

Mounting



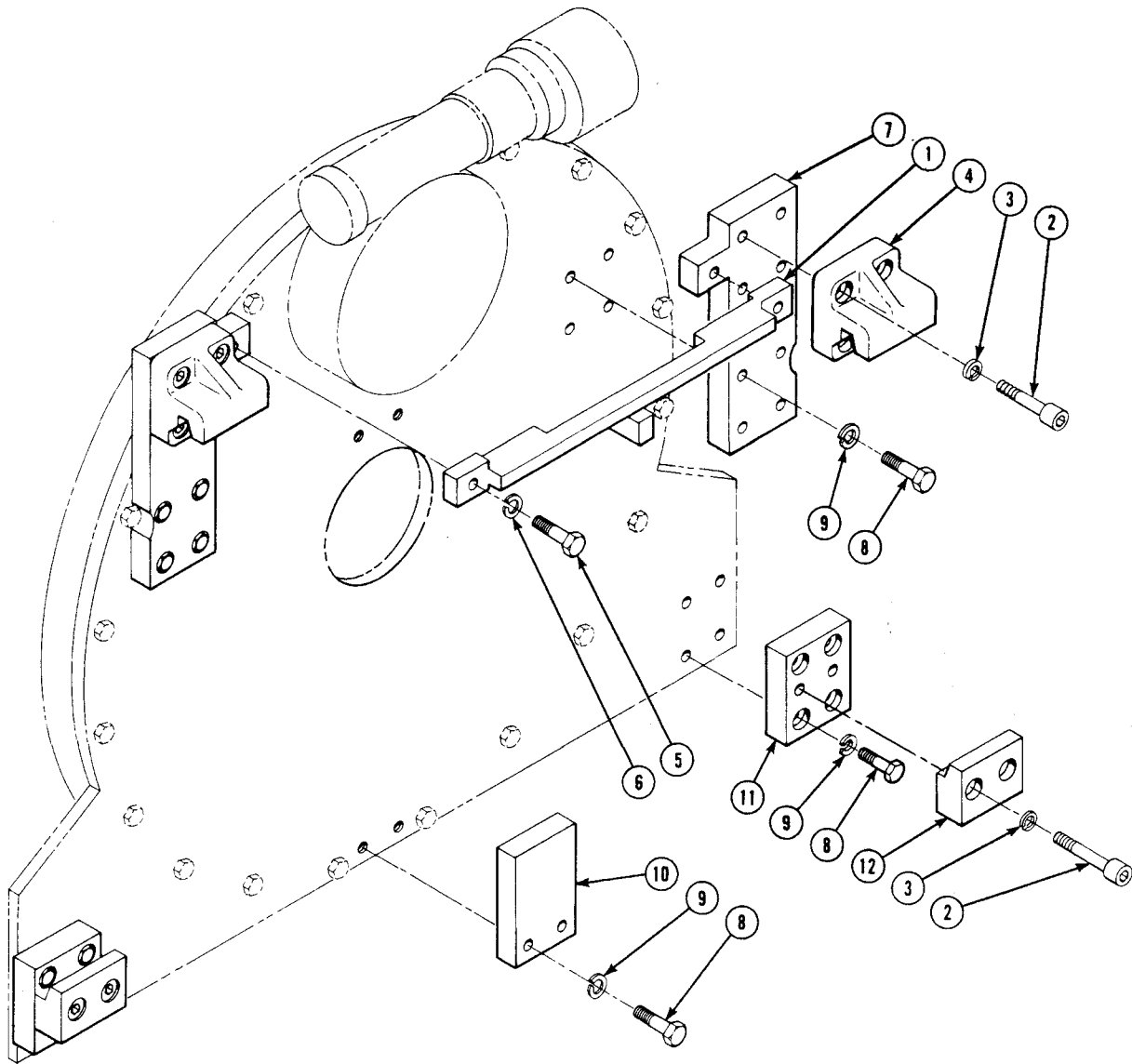
REF. NO.	R4R - Class II				R6R - Class III				DESCRIPTION
	0° Mounting Angle C-627458		4° Mounting Angle C-626320		0° Mounting Angle C-627465		4° Mounting Angle C-625252		
	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	
1	6	C-630519	4	C-630519	8	C-630519	—	Not Used	Spacer
2	2	C-625447	2	C-625447	2	C-625452	2	C-625452	Upper Hook
3	12	C-6447	12	C-6447	12	C-6447	12	C-6447	Lockwasher
4	8	C-607088	8	C-607087	8	C-607089	8	C-607085	Capscrew
5	2	C-632904	—	Not Used	2	C-632904	—	Not Used	Spacer
6	2	C-627369	4	C-627369	2	Not Used	2	C-627369	Pad
7	2	C-625450	2	C-625450	2	C-622126	2	C-622126	Lower Hook
8	4	C-607094	4	C-607089	4	C-607094	4	C-607086	Capscrew
9	2	C-3657	2	C-3656	2	C-3658	2	C-3654	Capscrew
10	2	C-6290	2	C-6290	2	C-6290	2	C-6290	Lockwasher
11	1	C-626321	1	C-626321	1	C-622129	1	C-622129	Centering Bracket
12	1	C-627572	1	C-627573	2	C-627603	—	Not Used	Spacer
13	2	C-3612	2	C-3606	2	C-3717	2	C-3707	Capscrew
14	2	C-6288	2	C-6288	2	C-6292	2	C-6292	Lockwasher
15	1	C-639229	2	C-639229	1	C-630521	1	C-630520	Pad Center
16	1	C-639230	1	C-640506	1	C-640545			Pad
17			4	C-640499	4	C-640499			Spacer

Mountings



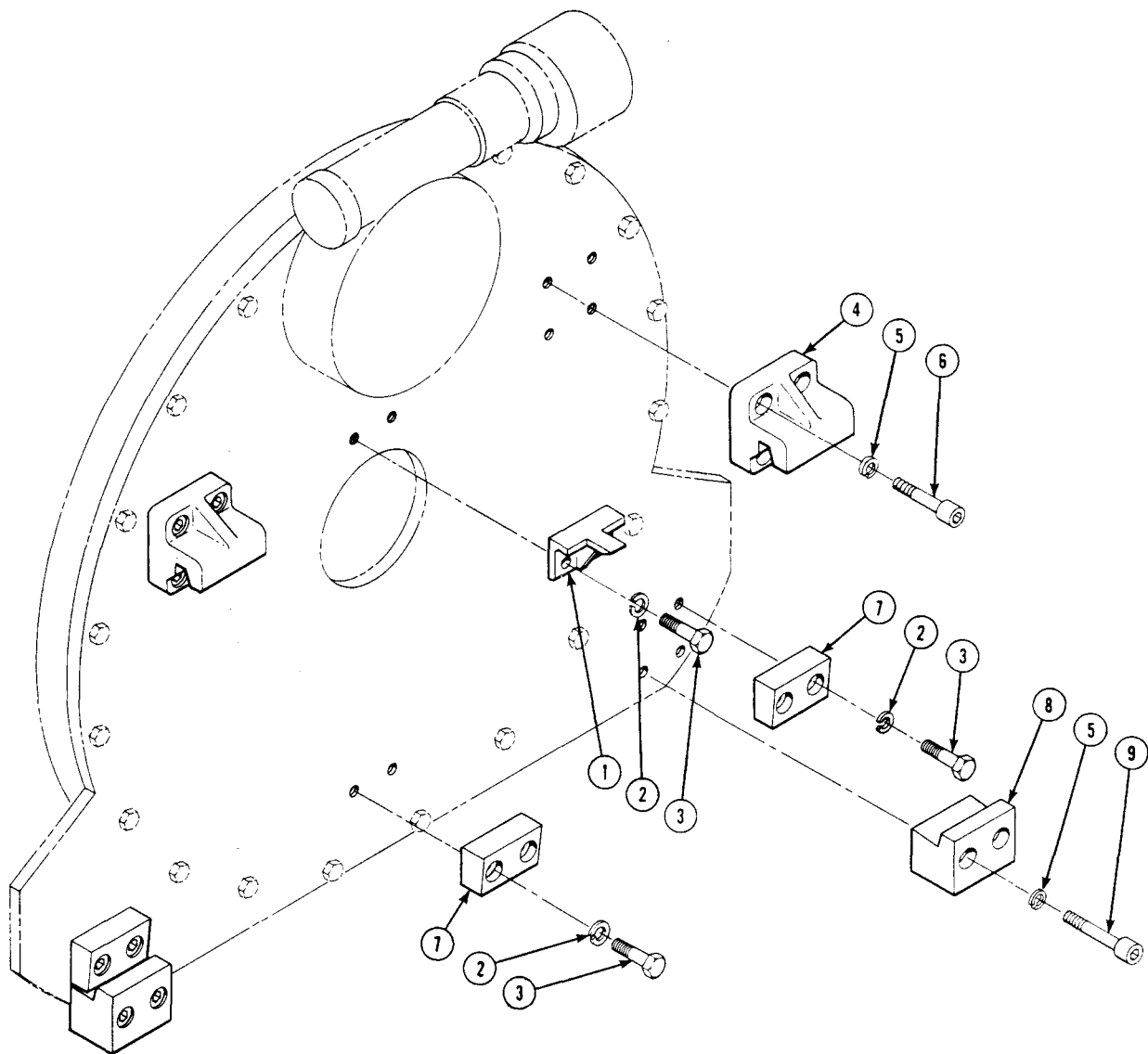
REF. NO.	R4R - Class III				R6R - Class IV				DESCRIPTION
	0° Mounting Angle		4° Mounting Angle		0° Mounting Angle		4° Mounting Angle		
	C-627459		C-622124		C-638747		C-638746		
	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	
1	4	C-630519	—	Not Used	—	Not Used	—	Not Used	Spacer
2	2	C-625452	2	C-625452	2	C-647008	2	C-647008	Upper Hook
3	12	C-6447	12	C-6447	12	C-6448	12	C-6448	Lockwasher
4	8	C-607087	8	C-607085	8	C-607104	12	C-607104	Capscrew
5	2	C-622127	2	C-622127	2	C-638751	2	C-638751	Extension
6	8	C-6292	8	C-6292	10	C-6292	10	C-6292	Lockwasher
7	8	C-3708	8	C-3708	8	C-3708	8	C-3708	Capscrew
8	6	C-627369	6	C-639234	2	C-638748	—	Not Used	Pad
9	2	C-622126	2	C-622126	2	C-638750	2	C-638750	Lower Hook
10	4	C-607091	4	C-607090	4	C-607111	—	—	Capscrew
11	2	C-3656	2	C-3654	2	C-3654	2	C-3654	Capscrew
12	2	C-6290	2	C-6290	2	C-6290	2	C-6290	Lockwasher
13	1	C-626322	1	C-626322	1	C-622158	1	C-622158	Centering Bracket
14	1	C-627573	—	Not Used	—	Not Used	—	Not Used	Spacer
15	1	C-639226	1	C-639228	1	C-638749	1	C-638752	Pad
16	2	C-4757	2	C-4750	2	C-3713	2	C-3705	Capscrew
17	2	C-6441	2	C-6441	—	Not Used	—	Not Used	Lockwasher
18	1	C-639227	—	Not Used	—	Not Used	—	Not Used	Spacer

Mounting: Model R6R—Class IV



REF. NO.	QTY.	R6R		DESCRIPTION
		0° Mounting Angle	4° Mounting Angle	
		Part No.	Part No.	
1	1	C-641849	C-641850	Mounting Group
2	12	C-607106	C-607104	Capscrew
3	12	C-6448	C-6448	Lockwasher
4	2	C-622159	C-622159	Hook
5	2	C-3664	C-3664	Capscrew
6	2	C-6290	C-6290	Lockwasher
7	2	C-641855	C-641855	Plate
8	18	C-3712	C-3712	Capscrew
9	18	C-6292	C-6292	Lockwasher
10	1	C-641857	C-641859	Spacer-Center
11	2	C-641858	C-641860	Spacer-Lower
12	2	C-638750	C-638750	Hook

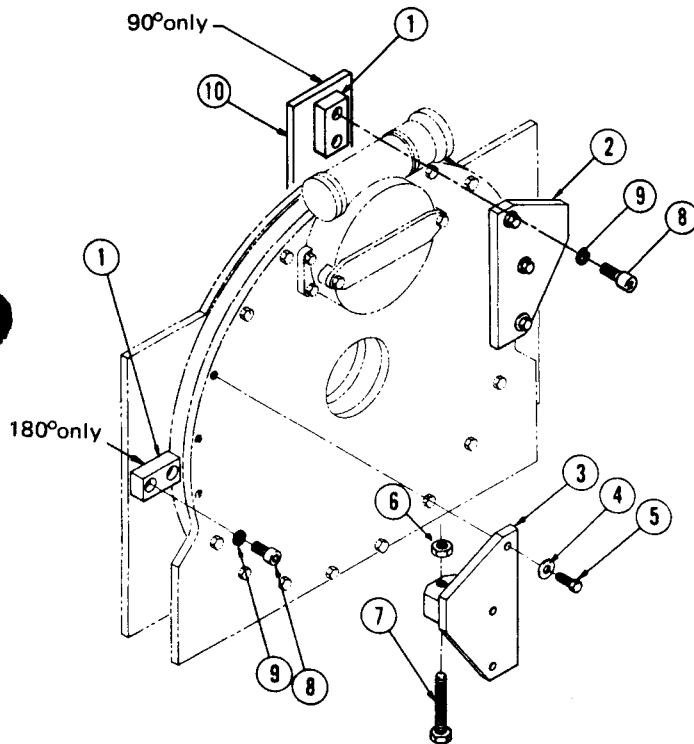
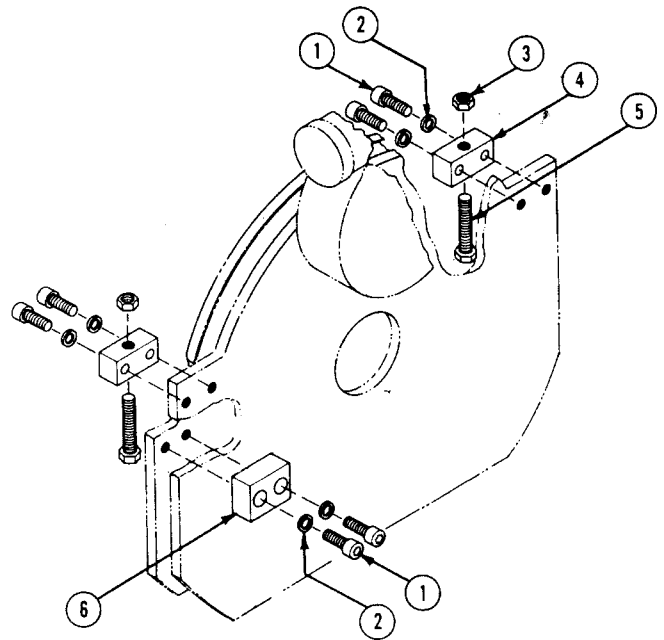
Mounting: Model R7R—Class IV, 4° Mounting Angle



REF. NO.	QTY.	R7R C-625247	DESCRIPTION
		Part No.	
1	1	C-625247	Mounting Group
2	8	C-6290	Lockwasher
3	8	C-3304	Capcrew
4	2	C-622159	Hook—Upper
5	12	C-6448	Lockwasher
6	8	C-607105	Capcrew
7	3	C-622163	Pad
8	2	C-622164	Hook—Lower
9	4	C-607108	Capcrew

Optional 90° and 180° Stops

R7R 180° Stop			
REF. NO.	QTY.	PART NO.	DESCRIPTION
		C-625250	Stop Group
1	6	C-4545	Capscrew
2	6	C-6448	Lockwasher
3	2	C-5935	Nut
4	2	C-626407	Stop Block
5	2	C-626436	Capscrew
6	1	C-626408	Block



REF. NO.	R3R 180° Stop		R4R 180° Stop		R4R 90° Stop		R6R 180° Stop		DESCRIPTION
	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	
		C-633767		C-633656		C-639372		C-633713	Stop Group
1	1	C-625456	1	C-625467	1	C-625467	1	C-625522	Stop Block
2	1	C-633770	1	C-633659	1	C-633659	1	C-633716	R.H. Stop
3	1	C-633771	1	C-633660	1	C-633660	1	C-633717	L.H. Stop
4	4	C-6290	4	C-6290	4	C-6290	6	C-6290	Lockwasher
5	4	C-633801	4	C-633683	4	C-633683	6	C-633683	Capscrew
6	2	C-5932	2	C-5932	2	C-5932	2	C-5933	Nut
7	2	C-633662	2	C-633662	2	C-633662	2	C-633712	Capscrew
8	2	C-4505	2	C-607084	2	C-607084	2	C-607102	Capscrew
9	2	C-6374	2	C-6447	2	C-6447	2	C-6448	Lockwasher
10	—	—	—	—	1	C-639373	—	—	Stop Block