

PARTS MANUAL

**70 TON General Purpose
Off road Transporter**

MODEL 77-0010B

May, 1991



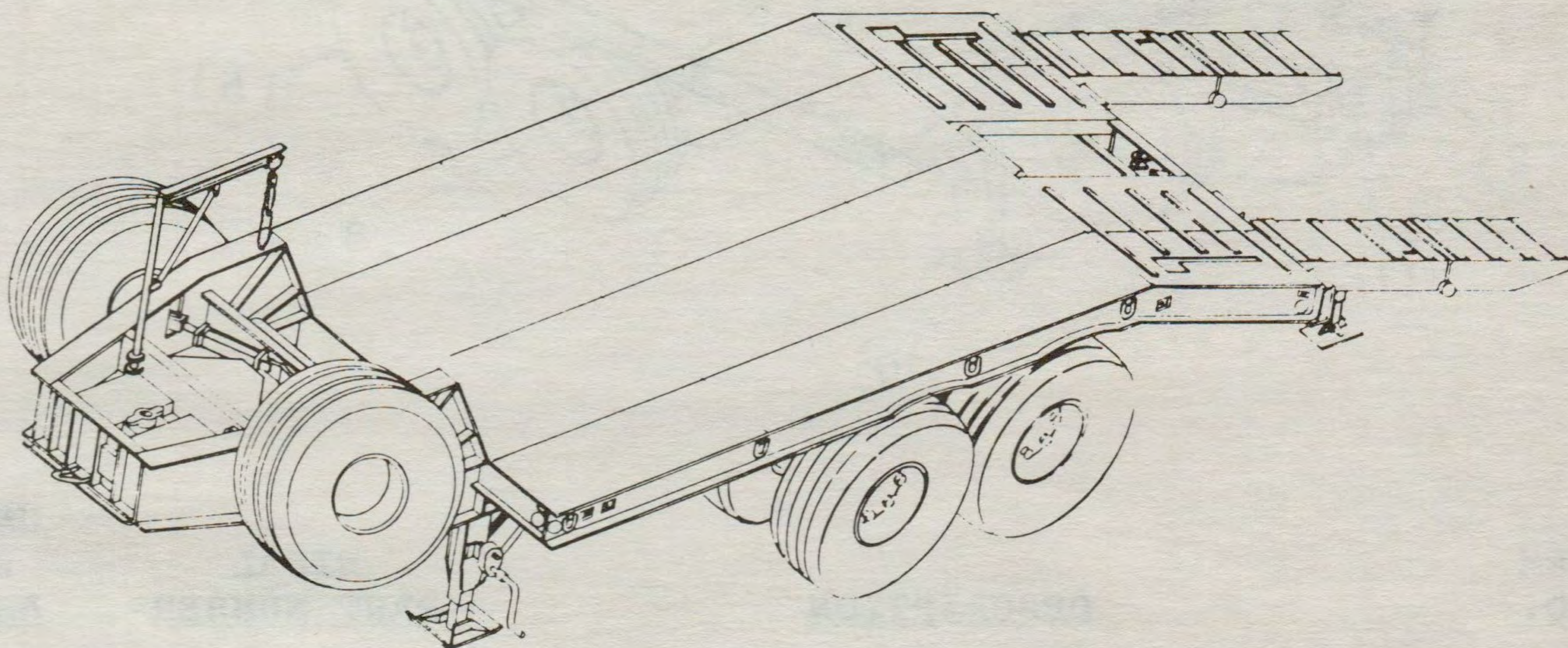
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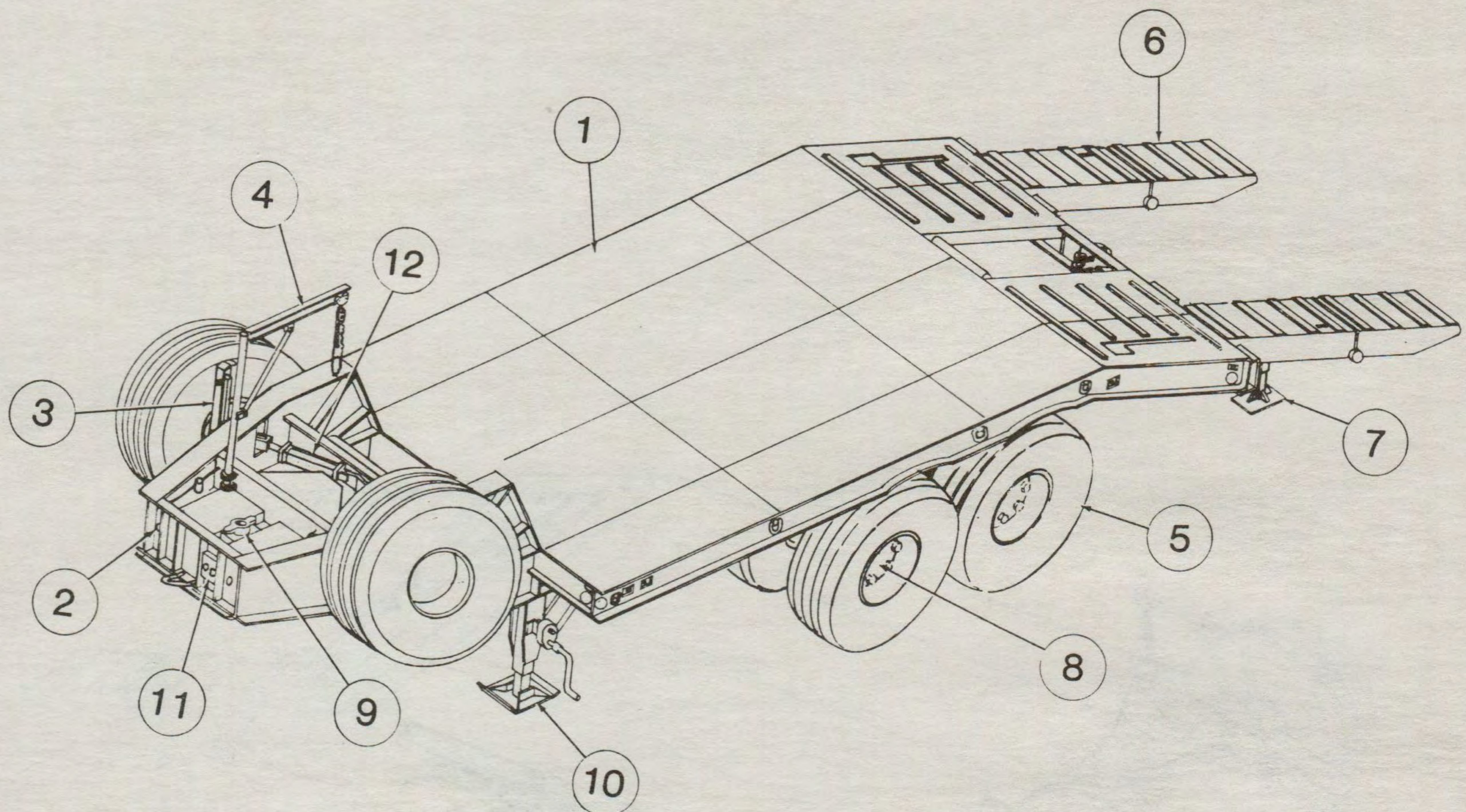
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2. INTRODUCTION



This manual is divided into individual sections describing the main elements of the 70-Ton General Purpose Off-The-Road Transporter, Model 77-0010B. Each section contains an illustrated and numbered parts list to aid in the location and identification of each part of the assembly. Also, listed is the number of units required per each assembly.

3. GENERAL ASSEMBLY

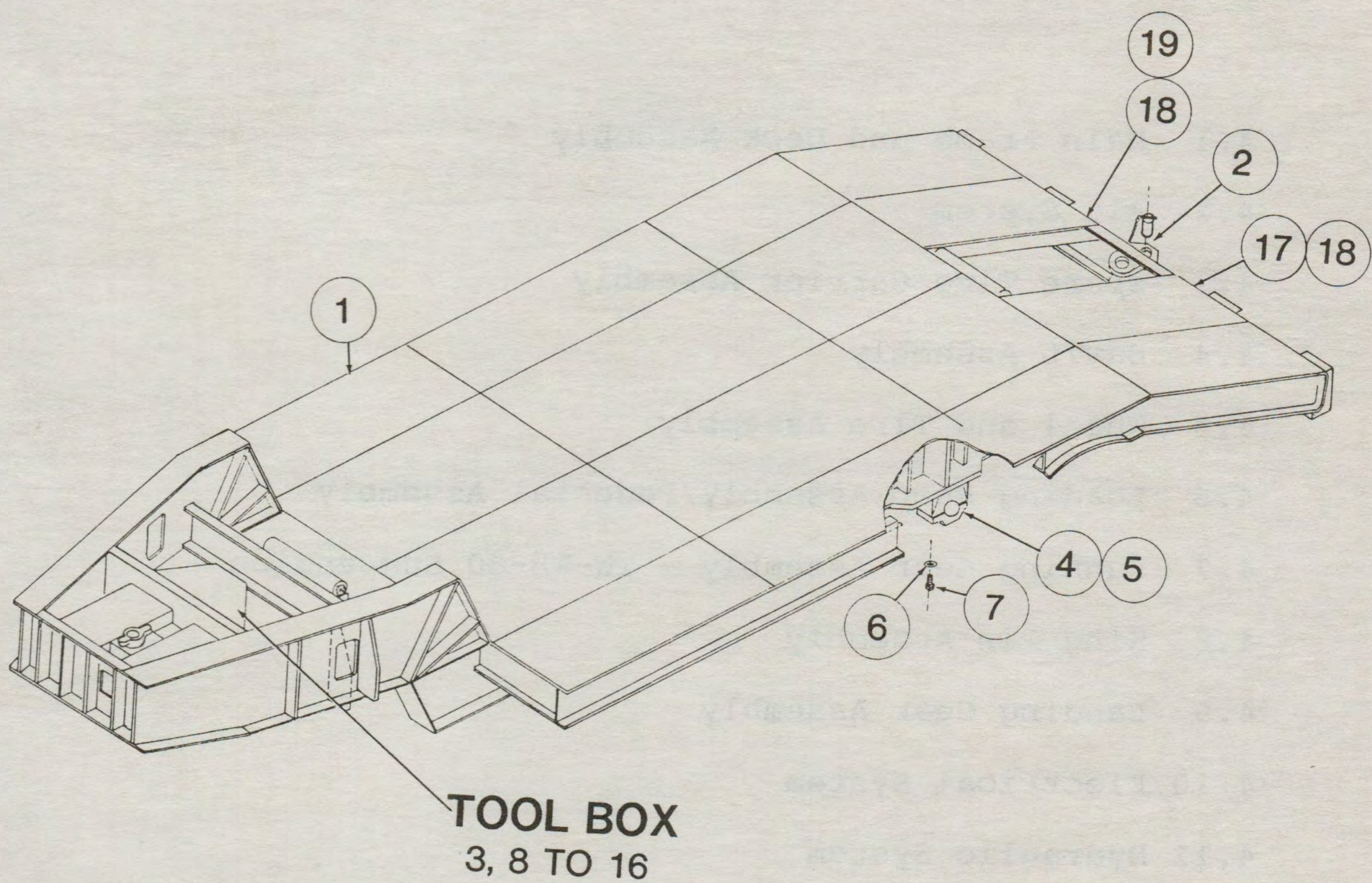


<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>EIDAL PART NUMBER</u>	<u>UNITS PER ASS'Y</u>
1	Main Frame	10779H	1
	Deck Assembly	52428	1
2	Air System	10788	1
3	Spare Tire Carrier Assembly	11645	2
4	Davit Assembly	10780-1	1
5	Wheel and Tire Assembly	10761	10
6	Loading Ramp Assembly	11661	2
7	Pedestal Assembly	10771	2
8	Running Gear Assembly	10673	2
9	King Pin Assembly	50181	1
10	Landing Gear Assembly	10818	1
11	Electrical System	10786	1
12	Hydraulic System	12052H	1

4. ILLUSTRATED AND NUMBERED PARTS LIST

- 4.1 Main Frame and Deck Assembly
- 4.2 Air System
- 4.3 Spare Tire Carrier Assembly
- 4.4 Davit Assembly
- 4.5 Wheel and Tire Assembly
- 4.6 Loading Ramp Assembly/Pedestal Assembly
- 4.7 Running Gear Assembly - TW-WB-60 Suspension
- 4.8 King Pin Assembly
- 4.9 Landing Gear Assembly
- 4.10 Electrical System
- 4.11 Hydraulic System

4-1. MAIN FRAME AND DECK ASSEMBLY



ITEM NO.	DESCRIPTION	EIDAL PART NUMBER	UNITS PER ASS'Y
1	Main Frame	10779H	1
2	Pin Assembly, W/Chain	52555	1
3	Parking Block	58765H	4
4	Trunnion Block	1172-0103-00	4
5	Trunnion Block	1172-0105-00	4
6	Lockwasher, 3/4"	50024-6	16
7	Bolt, Hex Head	50018-10	16

BREAKDOWN

A - Front and Rear Roller Assemblies

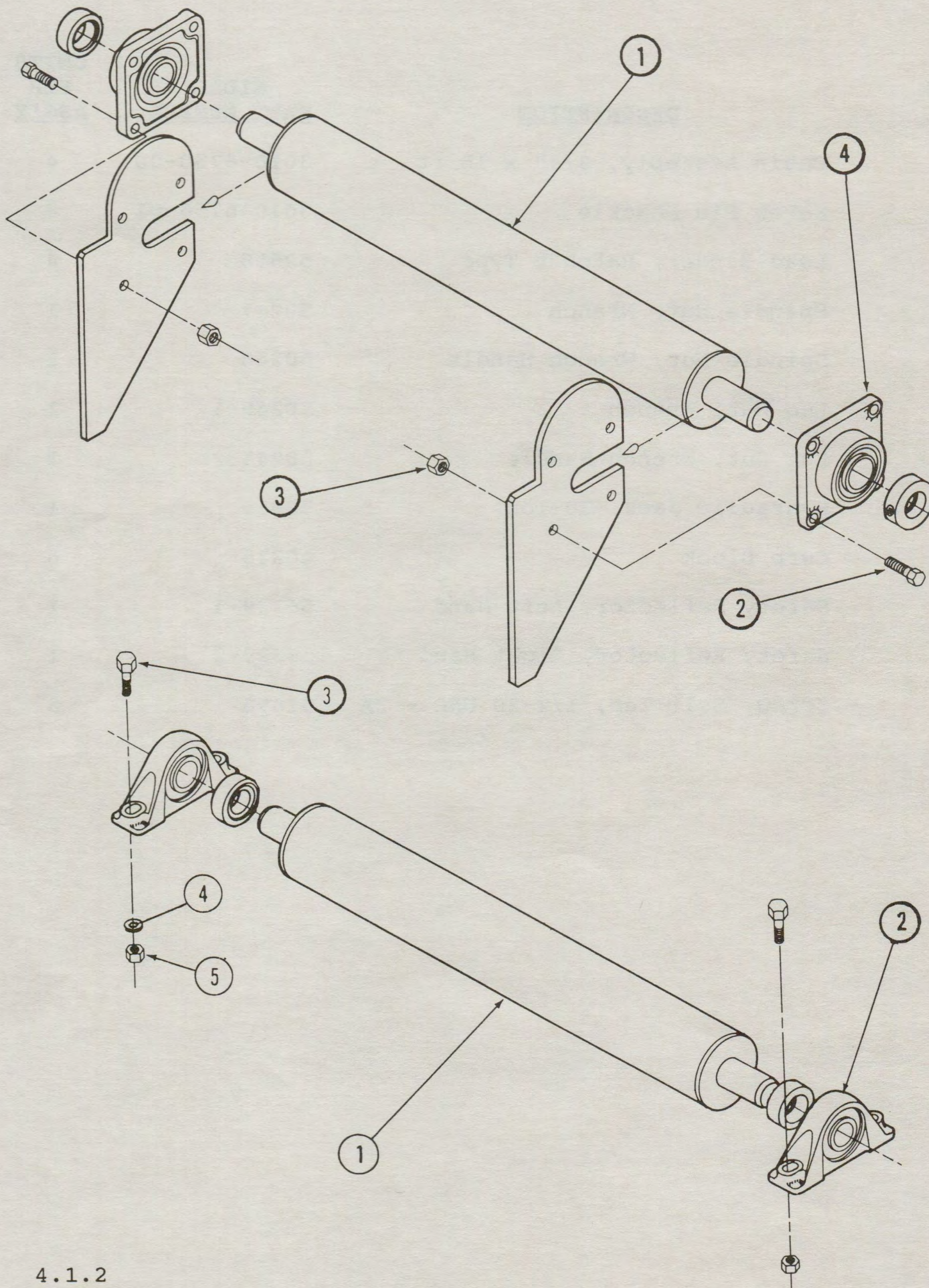
Page 4.1.2

4-1. MAIN FRAME AND DECK ASSEMBLY (Continued)

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>EIDAL PART NUMBER</u>	<u>UNITS PER ASS'Y</u>
8	Chain Assembly, 3/4" x 15 ft	3010-6750-00	4
9	Screw Pin Shackle	3010-6750-01	8
10	Load Binder, Ratchet Type	52558	4
11	Spindle Nut, Wrench	50247	1
12	Spindle Nut, Wrench Handle	50248	1
13	Lug Nut, Wrench	50245-1	1
14	Lug Nut, Wrench Handle	50245-2	1
15	Hydraulic Jack, 30-Ton	52559	1
16	Curb Block	40325	6
17	Safety Reflector, Left Hand	56329-1	1
18	Safety Reflector, Right Hand	56329-2	1
19	Screw, Self Tap, 1/4-20 UNC - 2A	51896	8

4-1. MAIN FRAME AND DECK ASSEMBLY (Continued)

FRONT AND REAR ROLLER INSTALLATION



4-1. MAIN FRAME AND DECK ASSEMBLY (Continued)

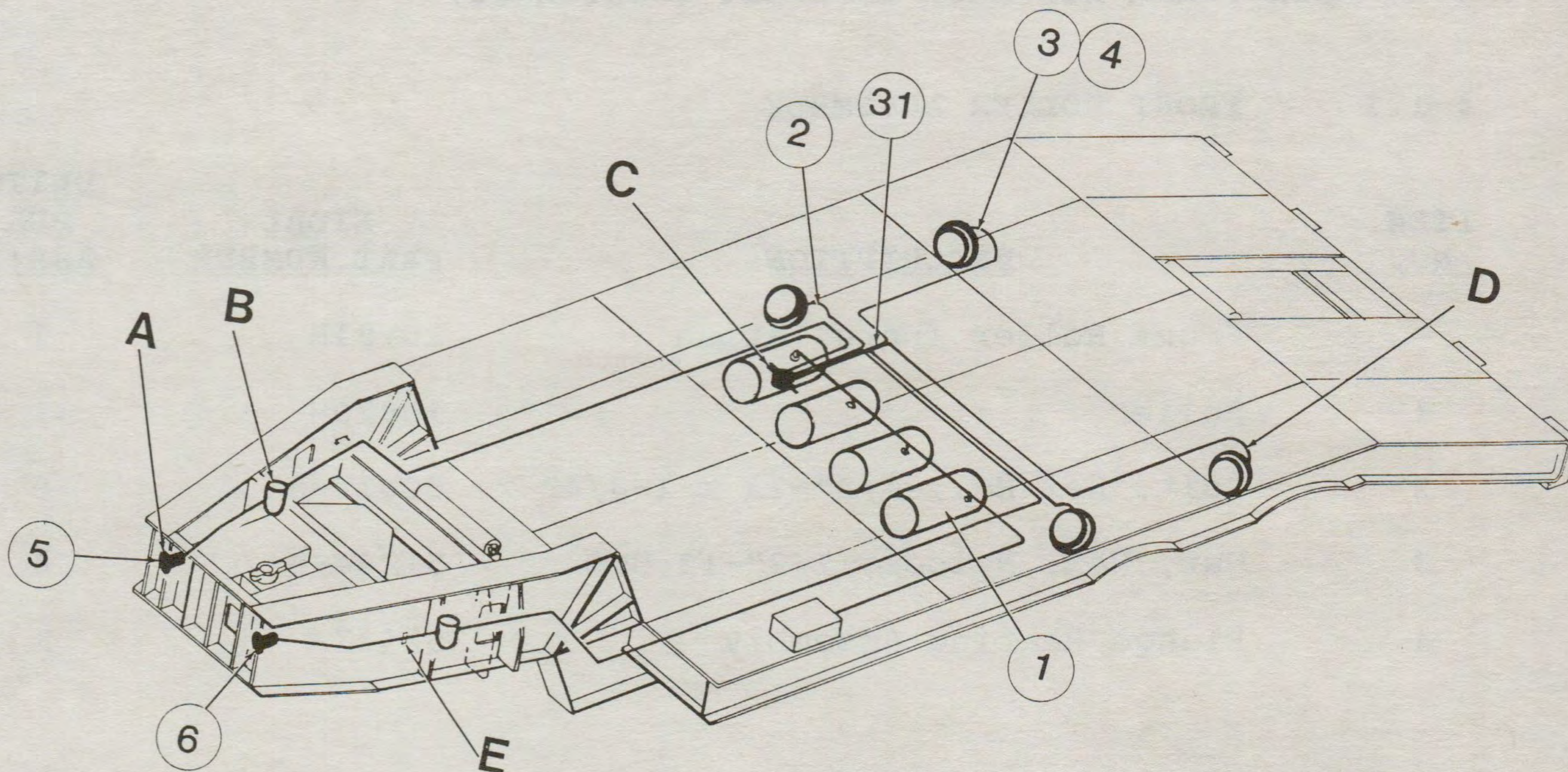
4-1.1 FRONT ROLLER ASSEMBLY

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>EIDAL PART NUMBER</u>	<u>UNITS PER ASS'Y</u>
-	Front Roller Installation	10781H	1
1	Roller	10820H	1
2	Bolt, Hex Hd., 1/2"-13 x 1-3/4"	50017-5	8
3	Nut, Hex, Nylock, 1/2"-13 UNC	51264-6	8
4	Flange Bearing Assembly	52537	2

4-1.2 REAR ROLLER ASSEMBLY

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>EIDAL PART NUMBER</u>	<u>UNITS PER ASS'Y</u>
-	Rear Roller Installation	10819H	1
1	Roller	10820H	1
2	Pillow Block Bearing Assembly	52536	2
3	Bolt, Hex Hd., 1/2"-13 x 2	50017-6	4
4	Washer, Flat	50023-4	4
5	Nut, Hex, Nylok, 1/2"-13 UNC	51741-2	4

4-2. AIR SYSTEM



<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>EIDAL PART NUMBER</u>	<u>UNITS PER ASS'Y</u>
-	Air System Installation	10788	1
-	Jumper Hose	51400-2	2
1	Reservoir	52570	4
2	Hose Assembly	52568	4
3	Elbow, Street, 3/8 NPT-90°	51029	4
4	Plug, 3/8 NPT	52565	4
5	Tag, Service	50238	1
6	Tag, Emergency	50237	1

AIR SYSTEM REFERENCE

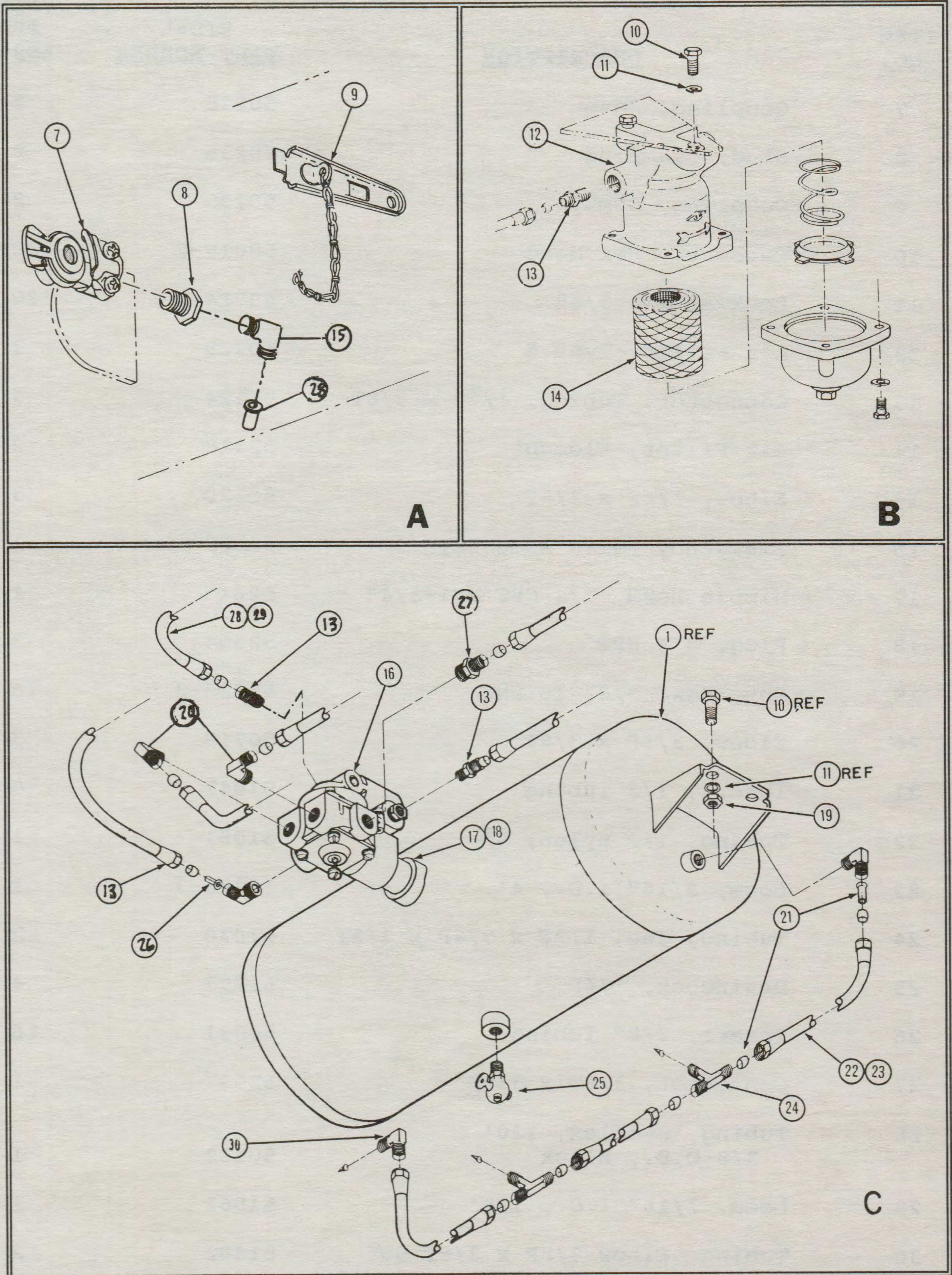
A, B, and C

Page 4.2.1

D and E

4.2.3

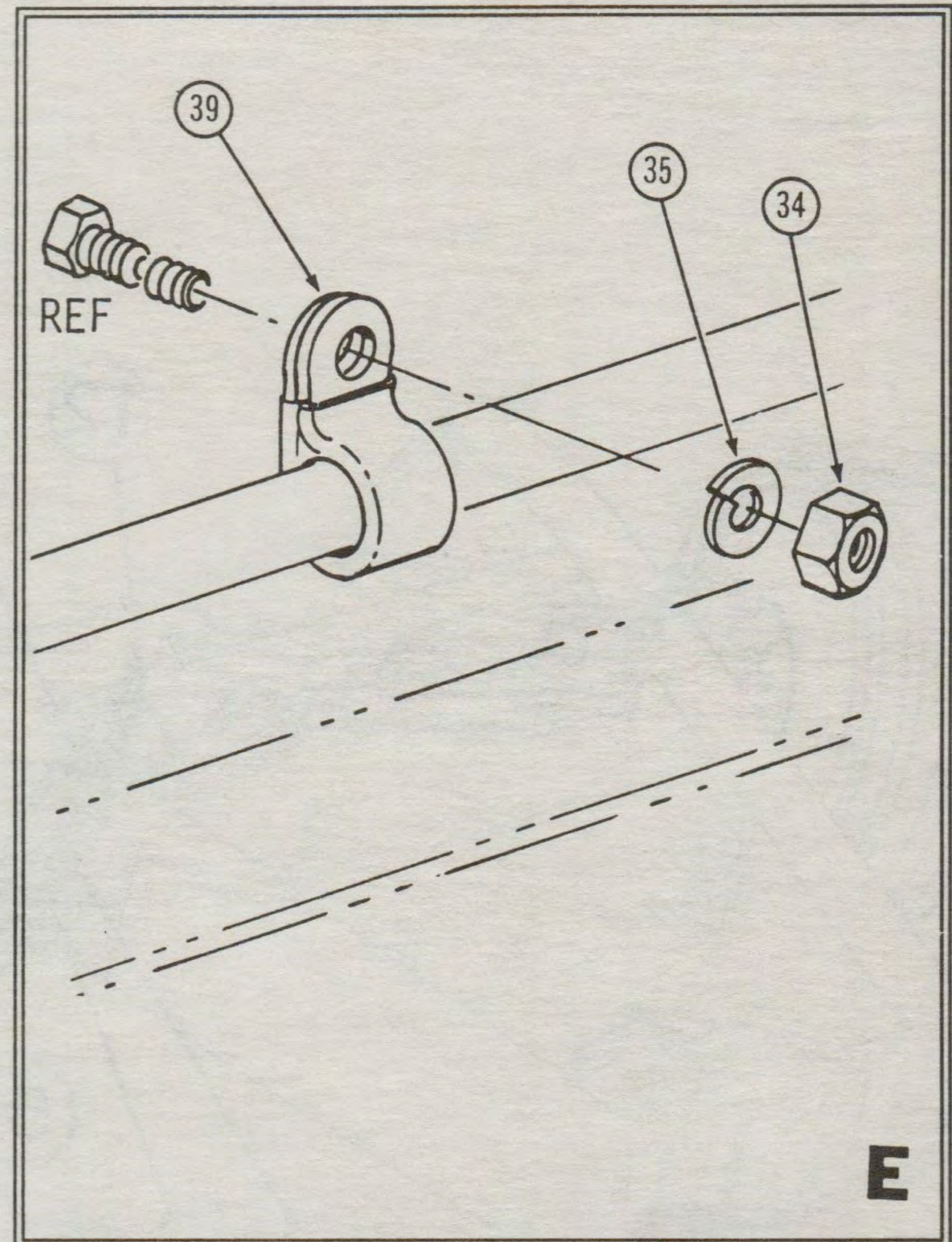
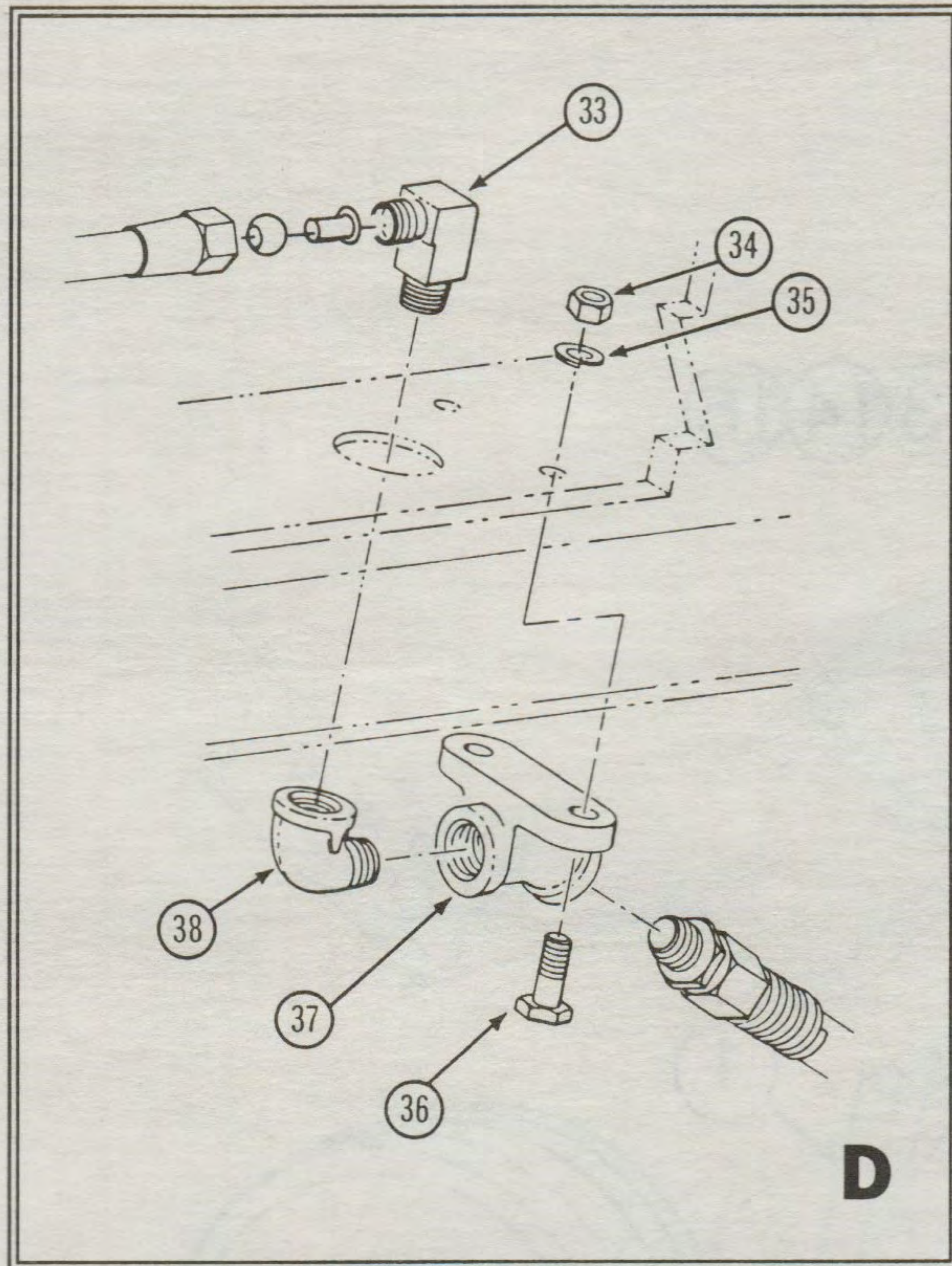
4-2. AIR SYSTEM (Continued)



4-2. AIR SYSTEM (Continued)

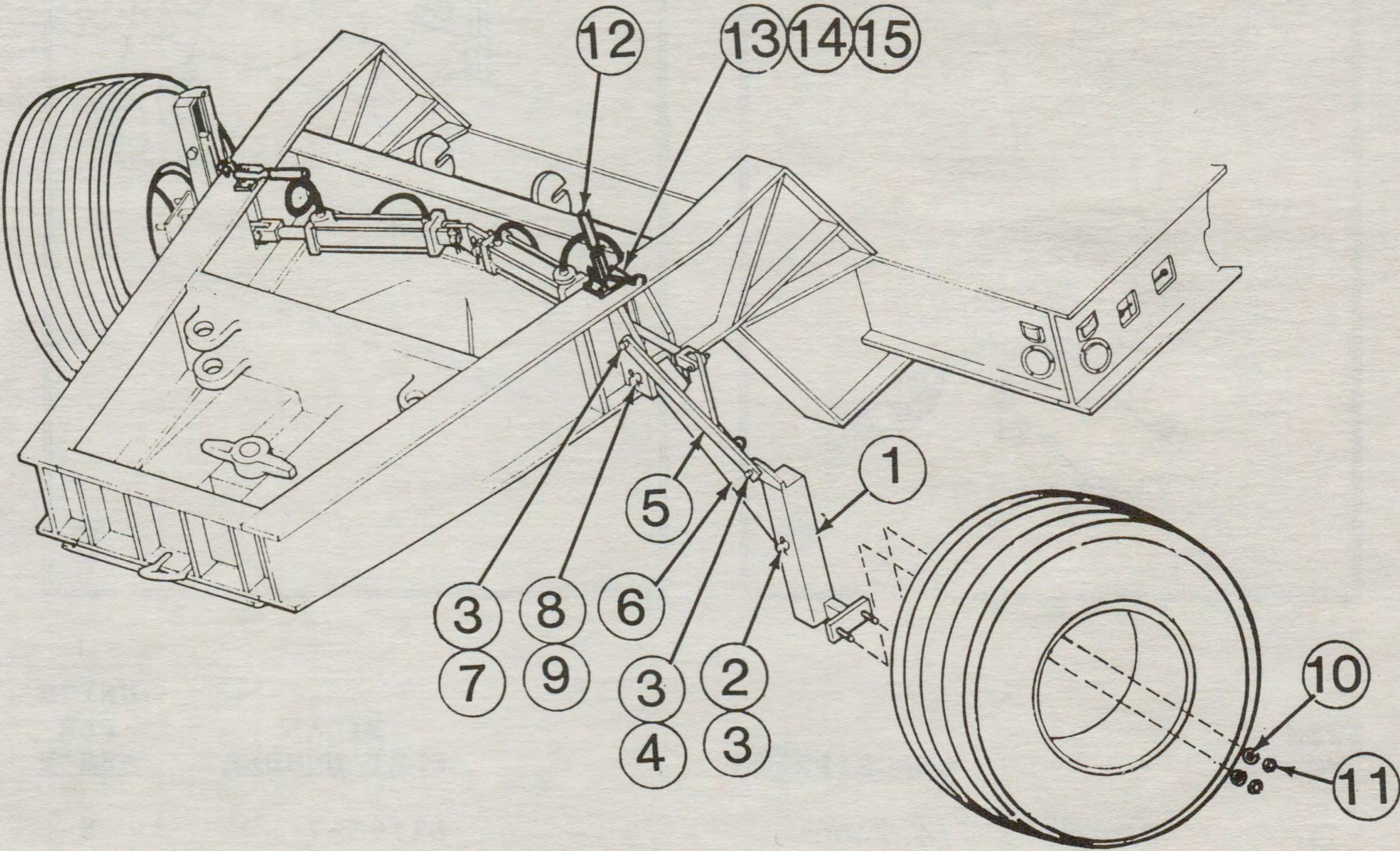
<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>EIDAL PART NUMBER</u>	<u>UNITS PER ASS'Y</u>
7	Coupling, Hose	50235	2
8	Stud, Clamping	50236	2
9	Coupling, Dummy	50239	2
10	Capscrew, Hex Head	50015-2	20
11	Lockwasher, 3/8"	50024-2	20
12	Air Filter, Type E	50229	2
13	Connector, Tubing, 1/4P x 3/8T	50124	5
14	Air Filter, Element	52318	2
15	Elbow, 1/4P x 3/8T	50120	3
16	Emergency Valve Assembly	52569	1
17	Nipple Head, 3/4 NPT x 1-3/4"	52615	1
18	Plug, 3/4 NPT	52564	3
19	Nut, Hex, 3/8"-16 UNC	50022-2	16
20	Elbow, 3/8P x 3/8T	50713	3
21	Insert, 1/2 Tubing	51047	6
22	Tubing, 1/2 Nylon, 4'	51051	1
23	Loom, 9/16" I.D., 4'	10788-3	1
24	Tubing, Tee, 1/2T x 3/8P x 1/2T	51030	2
25	Draincock, 1/4P	51797	4
26	Insert, 3/8" Tubing	50891	16
27	Connector, 3/8T x 3/8P	52637	1
28	Tubing, Synflex, 120' 3/8 O.D., Black	50122	1
29	Loom, 7/16" I.D., 120'	51562	1
30	Tubing, Elbow 3/8P x 3/8T 90°	51802	2

4-2. AIR SYSTEM (Continued)



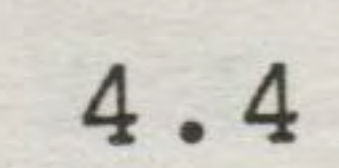
<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>EIDAL PART NUMBER</u>	<u>UNITS PER ASS'Y</u>
31	Clamp, 1-1/4 Tube	51193-7	5
32	Not Used		
33	Elbow, Extra Long, 1/4P x 3/8T	50232	4
34	Nut, Hex 1/4"	50022-1	27
35	Lockwasher, 1/4"	50024-1	27
36	Capscrew, 1/4"-20 NC x 1-3/4"	50014-6	8
37	Anchor, Elbow	3010-6216-00	4
38	Elbow, Street, 90°-1/4P	50233	4
39	Clamp, 1/2 Tube	50886-3	14

4-3. SPARE TIRE CARRIER ASSEMBLY



4-3. SPARE TIRE CARRIER ASSEMBLY (Continued)

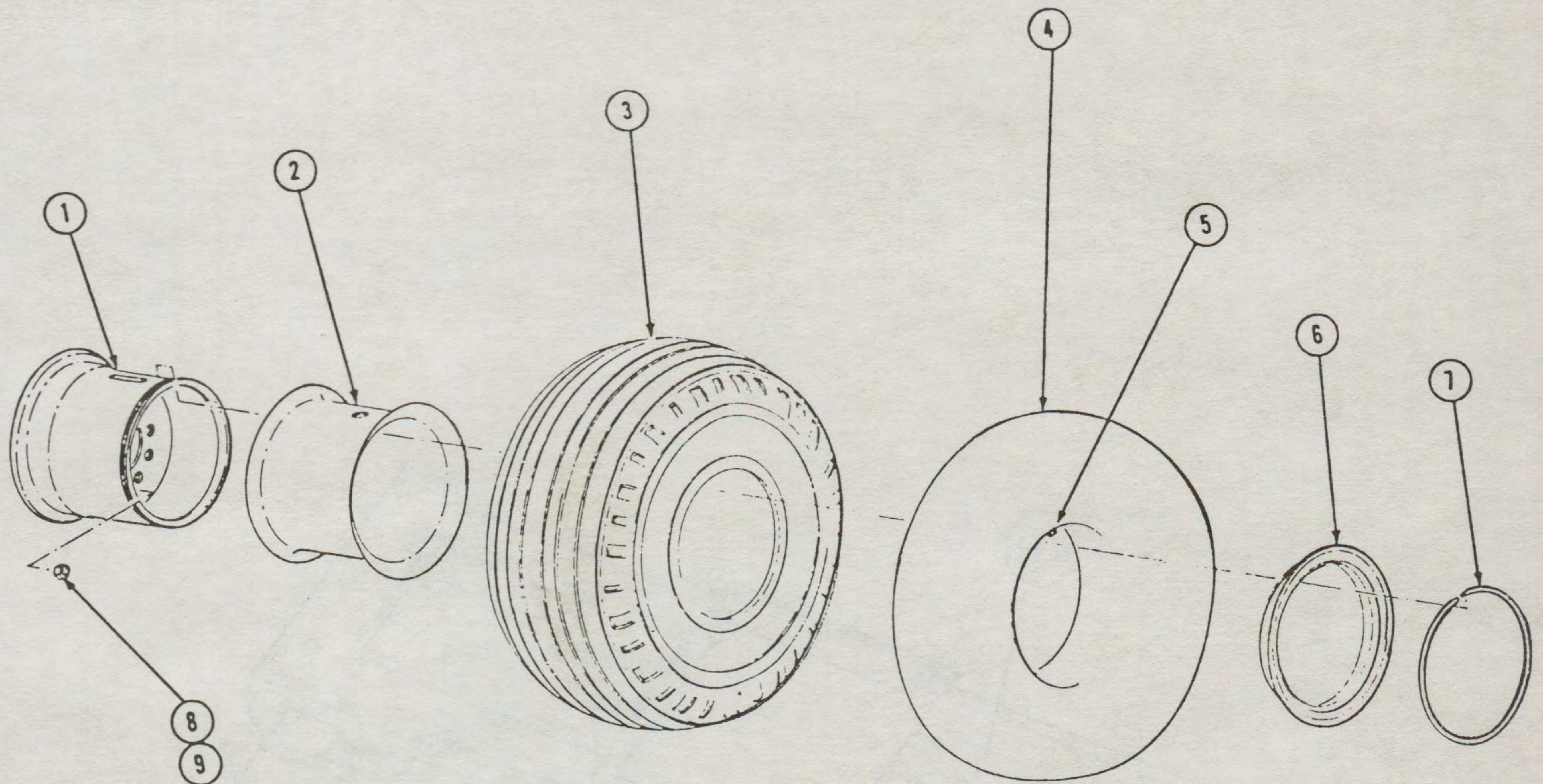
<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>EIDAL PART NUMBER</u>	<u>UNITS PER ASS'Y</u>
1	Arm, Spare Tire Carrier	58782H-01	2
2	Pin, .75 Dia. x 4.25 Lg.	58786H-01	2
3	Expansion Pin, .25 Dia. x 1.25 Lg.	58799H-4	12
4	Pin, .75 Dia. x 2.00 Lg.	58786H-03	2
5	Flat Bar, .50 x 1.50 x 43.00 Lg.	58784H-01	2
6	Linkage, Spare Tire Carrier	58783H-10	2
7	Pin, .75 Dia. x 2.25 Lg.	58786H-07	2
8	Pin, 1.00 Dia. x 7.50 Lg.	58786H-05	2
9	Expansion Pin, .25 Dia. x 1.50 Lg.	58799H-3	2
10	Lockwasher, 1.00 Dia. Steel Cad Plated	50024-7	4
11	Nut, 1.00-8UNC-2B, Steel Hex Cad Plated	50022-6	4
12	Pull Clamp	58805H	2
13	Hex Head Bolt, .31-18UNC x .75 Lg.	58804H-1	8
14	Lockwasher, .31 Nom. Dia.	50024-11	8
15	Flat washer, .31 Nom. Dia.	50023-12	8



4-4. DAVIT ASSEMBLY (Continued)

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>EIDAL PART NUMBER</u>	<u>UNITS PER ASS'Y</u>
-	Davit Assembly	10780-1	1
1	Arm Weldment	10780-2	1
2	Bolt, Hex Head, 5/8"-11 UNC x 5"	10780-16	2
3	Column Weldment	10780-10	1
4	Pin Assembly	3010-6710-00	3
5	Column Weldment	10780-6	1
6	Brace, Diagonal	10780-15	1
7	Nut, Hex, 5/8"-11 UNC	50022-4	2
8	Trolley, 1/2 Ton, Type A	10780-21	1
9	Hoist, 1/2 Ton, L70	10780-20	1

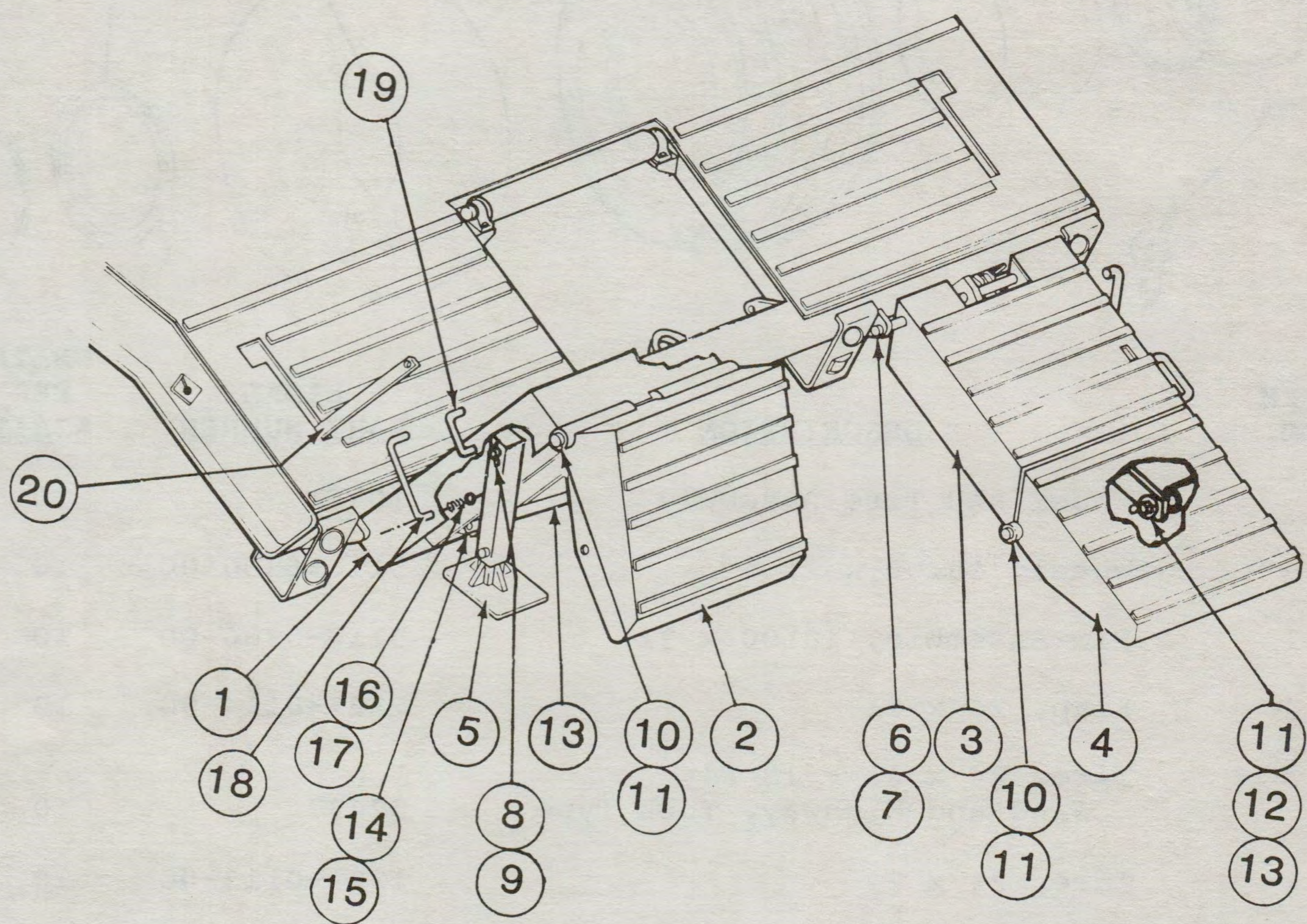
4-5. WHEEL AND TIRE ASSEMBLY



<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>EIDAL PART NUMBER</u>	<u>UNITS PER ASS'Y</u>
-	Wheel and Tire Assembly	10761	10
-	Wheel, 18:00 x 21	5110-6300-00	10
1	Rim Assembly, 18:00 x 21	5110-0306-00	10
2	Flap, 24 x 21	1227-0114-00	10
3	Tire, 24 x 21 - 18 Ply Sand and Highway, Tube Type	52437	10
4	Tube, 24 x 21	1227-0113-00	10
5	Stem Air Valve (G")	1227-0117-00	10
6	Flange	5110-0301-00	10
7	Lockring	5110-0302-00	10
8*	Capnut, LH	50012-2	40
9*	Capnut, RH	50012-1	40

*In ordering Part Number 10761, Wheel and Tire Assembly, Items 8 and 9 are not included.

4-6. LOADING RAMP ASSEMBLY

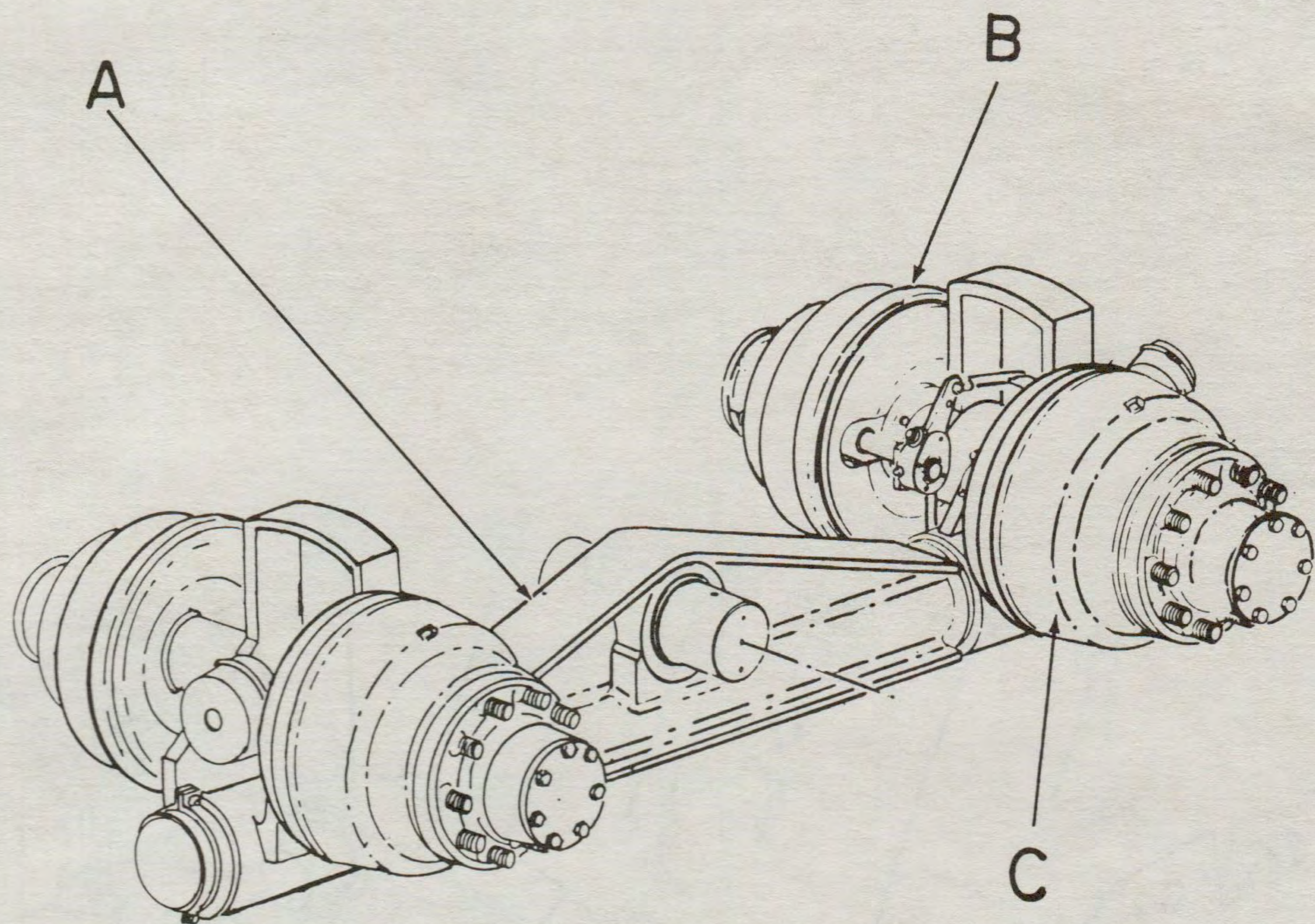


4-6. LOADING RAMP ASSEMBLY (Continued)

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>EIDAL PART NUMBER</u>	<u>UNITS PER ASS'Y</u>
1	Ramp, Upper Folding (Left Hand)	12053H-01	1
2	Ramp, Lower Folding (Left Hand)	12054H-01	1
3	Ramp, Upper Folding (Right Hand)	12053H-02	1
4	Ramp, Lower Folding (Right Hand)	12054H-02	1
5	Pedestal Assy, Unloading Ramp	12055H-10	2
6	Expansion Pin, .25 Dia. x 3.00	58799H-1	12
7	Pin, 1.94 Dia. x 36.00	58786H-33	2
8	Pin, 1.50 Dia. x 8.00	58786H-23	2
9	Expansion Pin, .25 Dia. x 2.00	58799H-2	4
10	Pin, 1.94 Dia. x 12.13	58786H-25	4
11	Expansion Pin, .25 Dia. x 1.50	58799H-3	10
12	Flat Washer, 1.00 Nom. Dia.	50023-7	2
13	Yoke, Lever Arm .75 Thk.	58787H-01	2
14	Bolt, Hex Head, .88-9UNC x 3.00 Lg	58800H-1	2
15	Locknut, .88-9UNC	51741-7	2
16	Flat Washer, .75 Nom. Dia.	50023-6	4
17	Spring	58801H	4
18	Locking Arm, Lower Ramp	58789H-01	2
19	Locking Arm, Upper Ramp	58788H-01	2
20	Flat Bar	58784H-01	2

4-7. RUNNING GEAR ASSEMBLY

TW-WB-60 Suspension



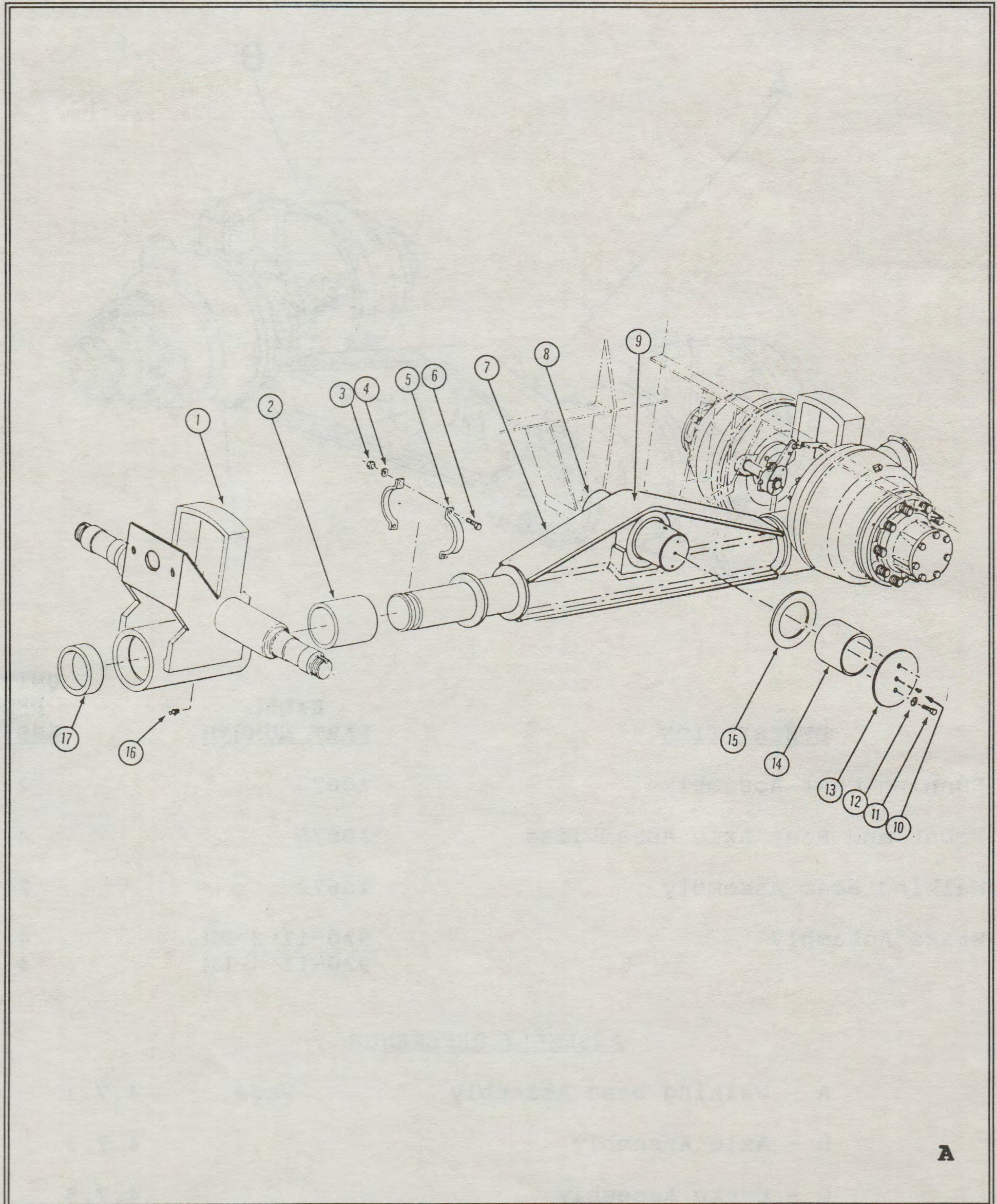
<u>DESCRIPTION</u>	<u>EIDAL PART NUMBER</u>	<u>UNITS PER ASS'Y</u>
Running Gear Assembly	10673	2
Front and Rear Axle Assemblies	10675	4
Walking Beam Assembly	10672	2
Brake Assembly	930-11-3-RH	4
	930-11-4-LH	4

ASSEMBLY REFERENCE

A - Walking Beam Assembly	Page	4.7.1
B - Axle Assembly		4.7.3
C - Brake Assembly		4.7.5

4-7. RUNNING GEAR ASSEMBLY (Continued)

4-7.1 WALKING BEAM ASSEMBLY



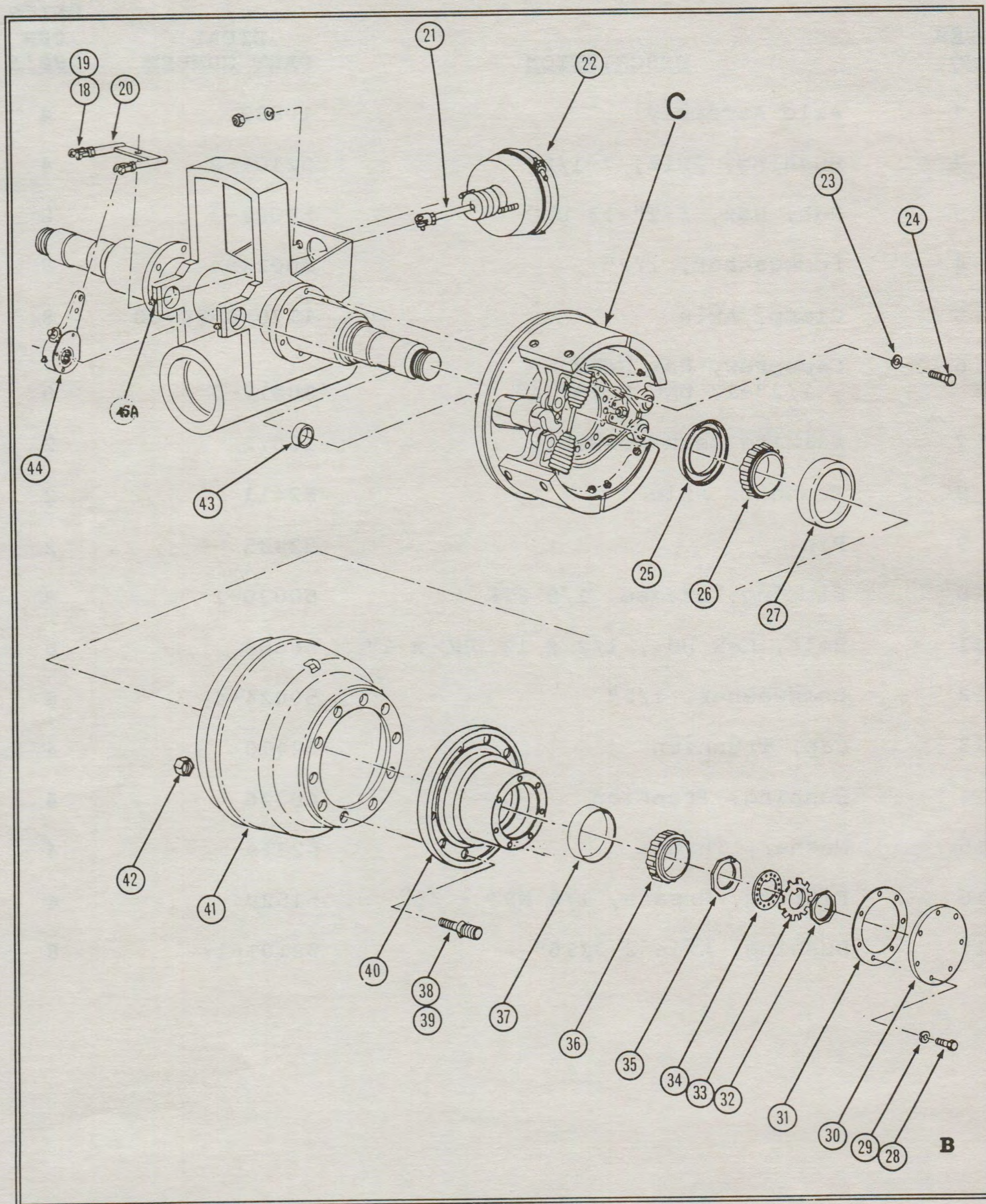
4-7. RUNNING GEAR ASSEMBLY (Continued)

4-7.1 WALKING BEAM ASSEMBLY (Continued)

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>EIDAL PART NUMBER</u>	<u>UNITS PER ASS'Y</u>
1	Axle Assembly	10822	4
2	Bushing, Axle, 7-1/2"	52101-2	4
3	Nut, Hex, 1/2"-13 UNC	50022-3	8
4	Lockwasher, 1/2"	50024-4	8
5	Clamp, Axle	1170-0624-00	8
6	Capscrew, Hex Head, 1/2"-13 UNC x 1-3/4"	50017-5	8
7	Walking Beam Assembly	10672	2
8	Trunnion Axle	52411	2
9	Pin	52435	2
10	Fitting, Grease, 1/8 STR	50030-1	8
11	Bolt, Hex Hd., 1/2 x 13 UNC x 1"	56668	8
12	Lockwasher, 1/2"	50024-4	8
13	Cap, Trunnion	52410	4
14	Bushing, Trunnion	40326	4
15	Washer, Thrust	52349	4
16	Fitting, Grease, 1/8 NPT - 45°	51529	4
17	Bushing, Axle 2-3/16"	52101-1	8

4-7. RUNNING GEAR ASSEMBLY (Continued)

4-7.2 AXLE ASSEMBLY



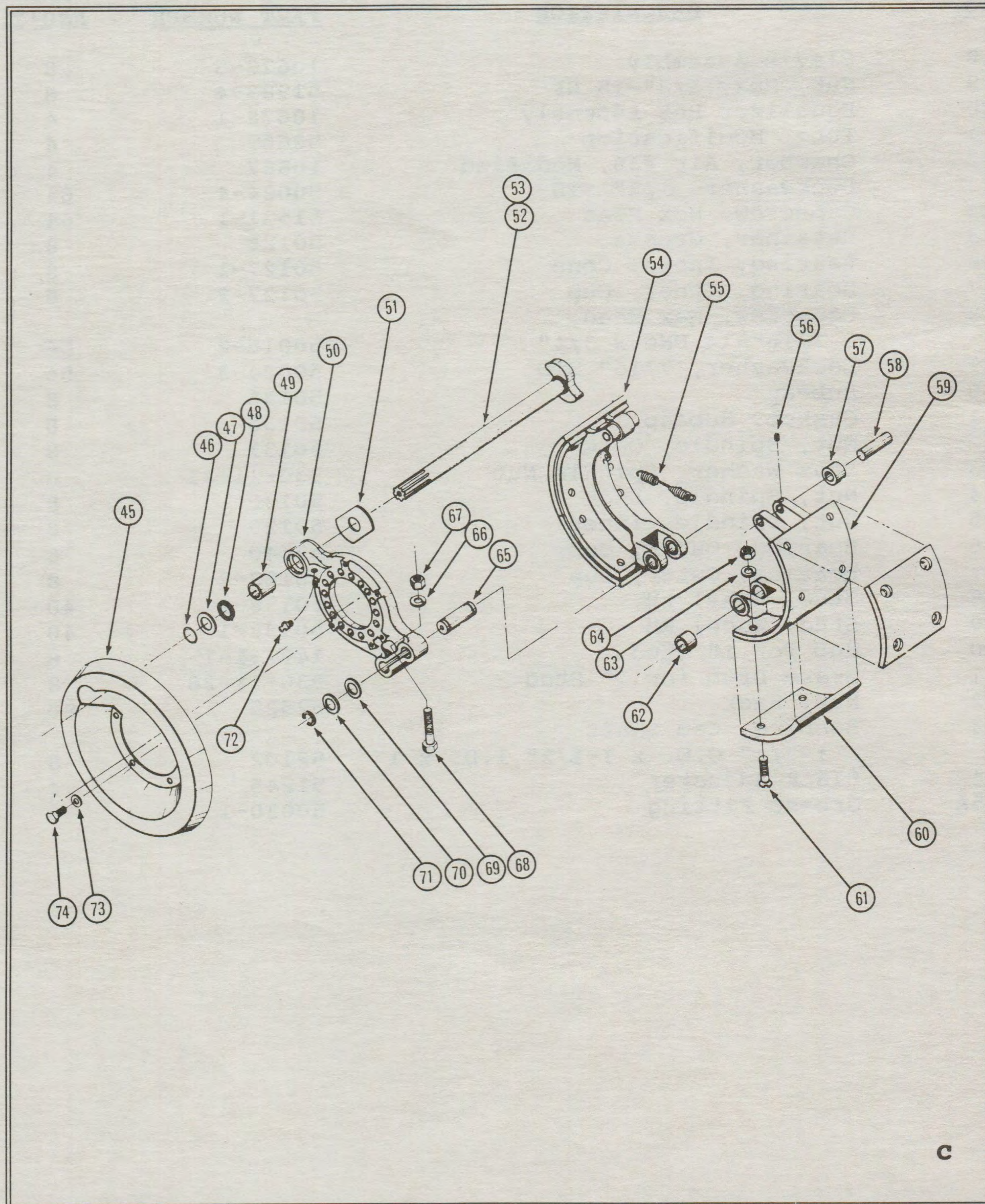
4-7. RUNNING GEAR ASSEMBLY (Continued)

4-7.2 AXLE ASSEMBLY (Continued)

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>EIDAL PART NUMBER</u>	<u>UNITS PER ASS'Y</u>
18	Clevis Assembly	10678-5	8
19	Nut, Hex, 5/8"-18 NF	51983-4	8
20	Equalizer Bar Assembly	10678-1	4
21	Tube, Modification	52669	4
22	Chamber, Air #36, Modified	10887	4
23	Lockwasher, 1/2" STD	50024-4	64
24	Capscrew, Hex Head	51531-1	64
25	Retainer, Grease	50126	8
26	Bearing, Inner, Cone	50127-1	8
27	Bearing, Inner, Cup	50127-2	8
28	Capscrew, Hex Head, 7/16"-14 UNC x 3/4"	50016-2	56
29	Lockwasher, 7/16" STD	50024-3	56
30	Hubcap	50136	8
31	Gasket, Hubcap	50135	8
32	Nut, Spindle, Outer	50131	8
33	Star Washer, Spindle Nut	930-11-31	8
34	Nut, Spindle, Lock	50130	8
35	Nut, Spindle, Inner	50129	8
36	Bearing, Outer, Cone	52540	8
37	Bearing, Outer, Cup	50128-2	8
38	Stud, Wheel LH	50138-2	40
39	Stud, Wheel RH	50138-1	40
40	Hub for 1" Stud	1492-1-1	8
41	Brake Drum for 1" Stud	930-11-28	8
42	Nut, Back	52525	80
43	Bushing, Cam Shaft 1-3/4" O.D. x 1-1/2" I.D. x 1"	52102	8
44	Slack Adjuster	51245	4
45A	Grease Fitting	50030-1	8

4-7. RUNNING GEAR ASSEMBLY (Continued)

4-7.3 BRAKE ASSEMBLY



4-7. RUNNING GEAR ASSEMBLY (Continued)

4-7.3 BRAKE ASSEMBLY (Continued)

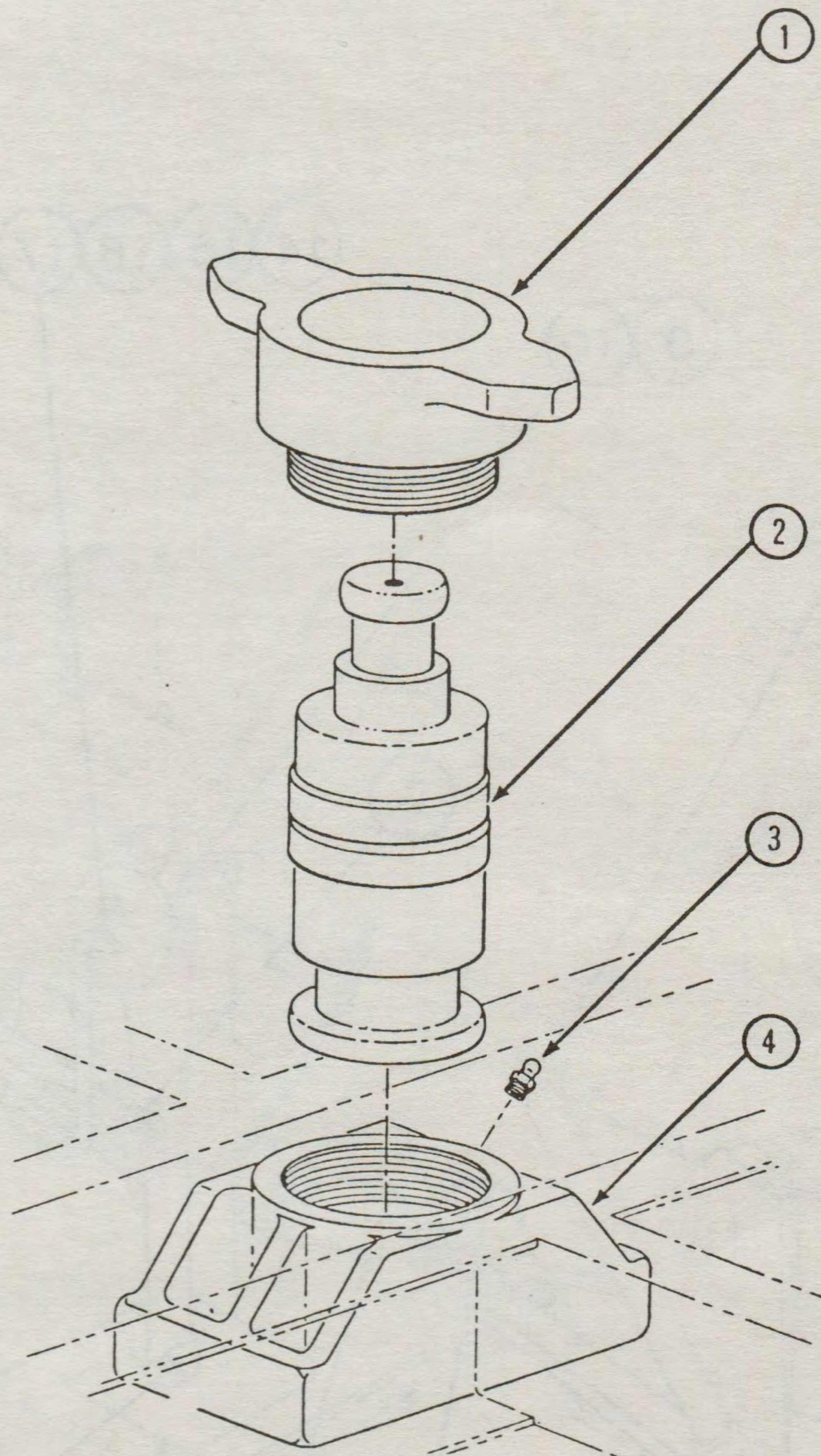
<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>EIDAL PART NUMBER</u>	<u>UNITS PER ASS'Y</u>
-	Brake Assembly, 16-1/2 x 7 8-5/8" Cam Shaft RH	930-11-3	4
-	Brake Assembly, 16-1/2 x 7 8-5/8" Cam Shaft LH	930-11-4	4
45	Shield, Dust	56686	8
46	Lockring, Cam Shaft	56356	16
47	Washer, Cam Spacer	56703	8
48	Seal	56704	16
49	Bushing, Brake Spider	56706	8
50	Spider Assembly	56705	8
51	Washer, Cam Spacer	1486-3-10	8
52	Cam Shaft, 8-5/8" RH	56707	4
53	Cam Shaft, 8-5/8" LH	56708	4
54	Shoe, Brake Assembly	56554	16
55	Spring, Brake	1486-3-47	8
56	Set Screw, Shaft	1486-3-30	16
57	Roller, Brake Cam	1486-3-28	16
58	Shaft, Brake Roller	1486-3-29	16
59	Casting, Brake Shoe	1486-3-16	16

4-7. RUNNING GEAR ASSEMBLY (Continued)

4-7.3 BRAKE ASSEMBLY (Continued)

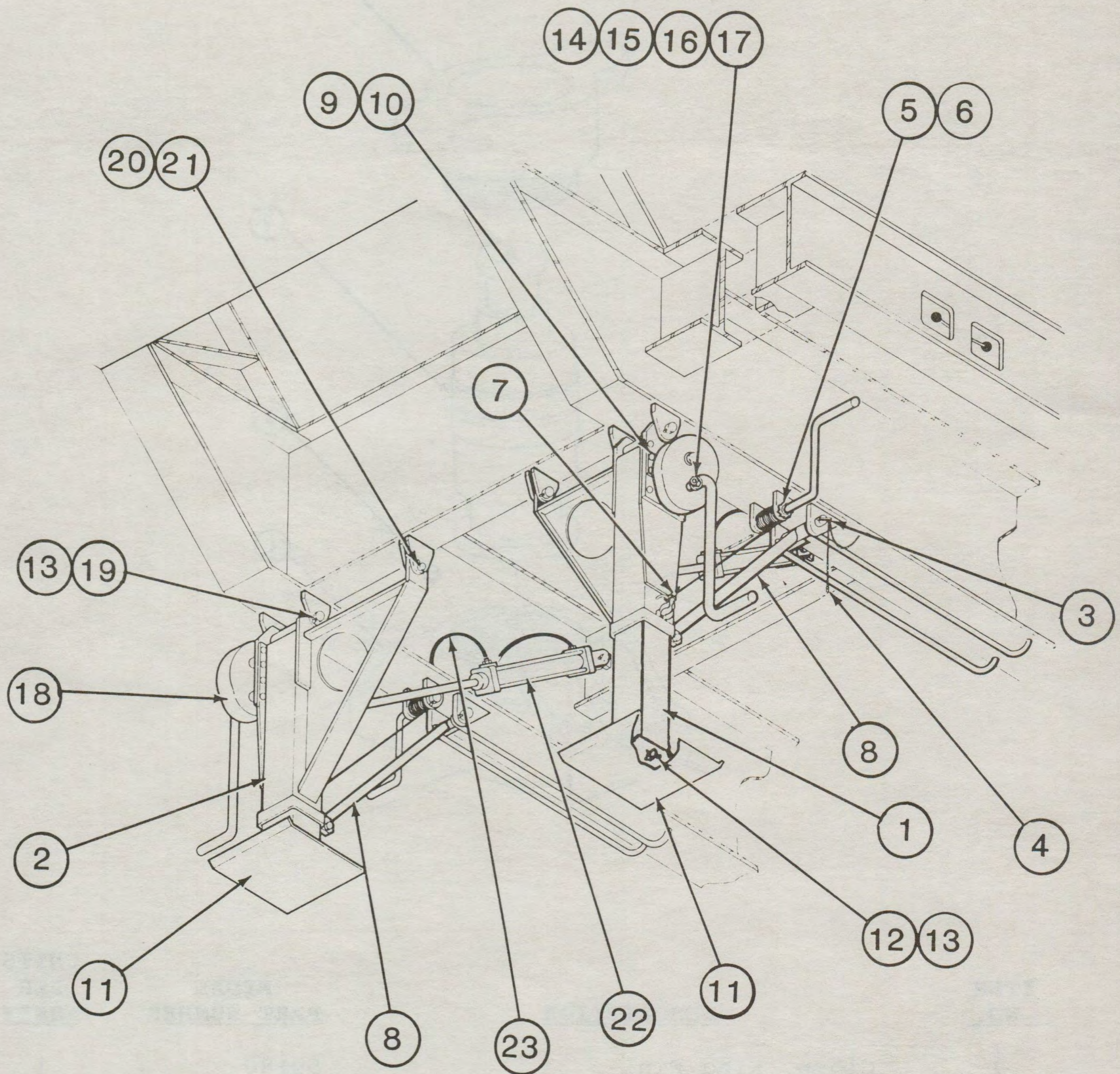
<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>EIDAL PART NUMBER</u>	<u>UNITS PER ASS'Y</u>
60	Lining, Brake	1486-3-17	32
61	Bolt, Brake Lining	1486-3-18	128
62	Bushing, Brake Shoe	1486-3-21	32
63	Lockwasher	56709	128
64	Nut, Bolt, Lining	1486-3-20	128
65	Pin, Brake Anchor	1486-3-22	16
66	Lockwasher	56710	8
67	Nut	56711	8
68	Bolt	56714	8
69	Felt, Anchor Pin	1486-3-23	32
70	Washer, Anchor Pin	1486-3-24	32
71	Lock, Anchor Pin	56713	32
72	Fitting, Grease	56712	8
73	Lockwasher, 5/16"	1486-3-33	48
74	Bolt, 5/16"-20 UNC Thread	1486-3-32	48

4-8. KING PIN ASSEMBLY



<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>EIDAL PART NUMBER</u>	<u>UNITS PER ASS'Y</u>
1	Clamp, King Pin	50180	1
2	King Pin, Double Ended	50181	1
3	Fitting, Grease	50030-1	1
4	Socket, King Pin	54182-2	1

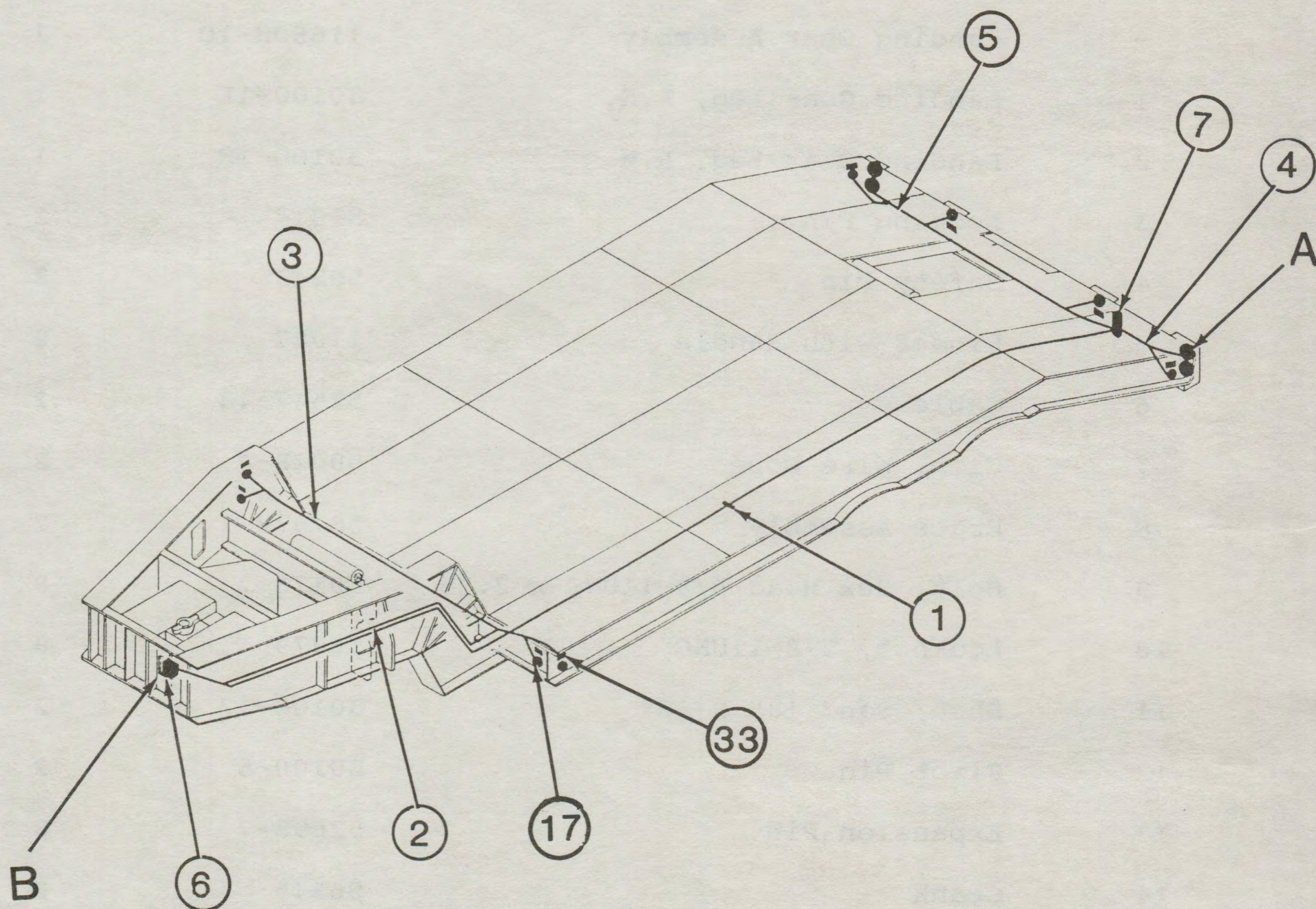
4-9. LANDING GEAR ASSEMBLY



4-9. LANDING GEAR ASSEMBLY (Continued)

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>EIDAL PART NUMBER</u>	<u>UNITS PER ASS'Y</u>
-	Landing Gear Assembly	11650H-10	1
1	Landing Gear Leg, L.H.	30100-1L	1
2	Landing Gear Leg, R.H.	30100-1R	1
3	Locking Pin	52517	2
4	Safety Pin	50243	2
5	Binder with Handle	11087	2
6	Cable	52547-48	2
7	Clip, Wire Rope	50028-4	2
8	Brace Assembly	58767H-1	2
9	Bolt, Hex Head 5/8-11UNC x 2.25	50176-7	8
10	Locknut, 5/8-11UNC	56379	8
11	Shoe, Sand 18" x 18"	30100-17	2
12	Pivot Pin	30100-5	2
13	Expansion Pin	52698-7	8
14	Crank	56346	2
15	Bolt, Hex Head 1/4-20UNC x 2.50	58791H	2
16	Washer, Flat 1/4" Nom. Dia.	58793H	4
17	Nut, Lock 1/4-20UNC	58792H	2
18	Gear Box Assembly	56344	2
19	Pivot Pin	58786H-11	2
20	Pivot Pin	58786H-13	2
21	Expansion Pin	52698-3	4
22	Hydraulic Cylinder (See Hyd. System)	58775H	REF
23	Hose (See Hyd. System)	58790H	REF

4-10. ELECTRICAL SYSTEM



<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>EIDAL PART NUMBER</u>	<u>UNITS PER ASS'Y</u>
1	Clamp, 3/8" Dia.	50886-2	25
2	Harness, Wiring (Main)	12057H	1
3	Harness, Wiring (Front)	12058H	1
4	Harness, Wiring (Rear, Left)	12059H	1
5	Harness, Wiring (Rear, Right)	12060H	1
6	Box, Converter	58806H	1

4-10.

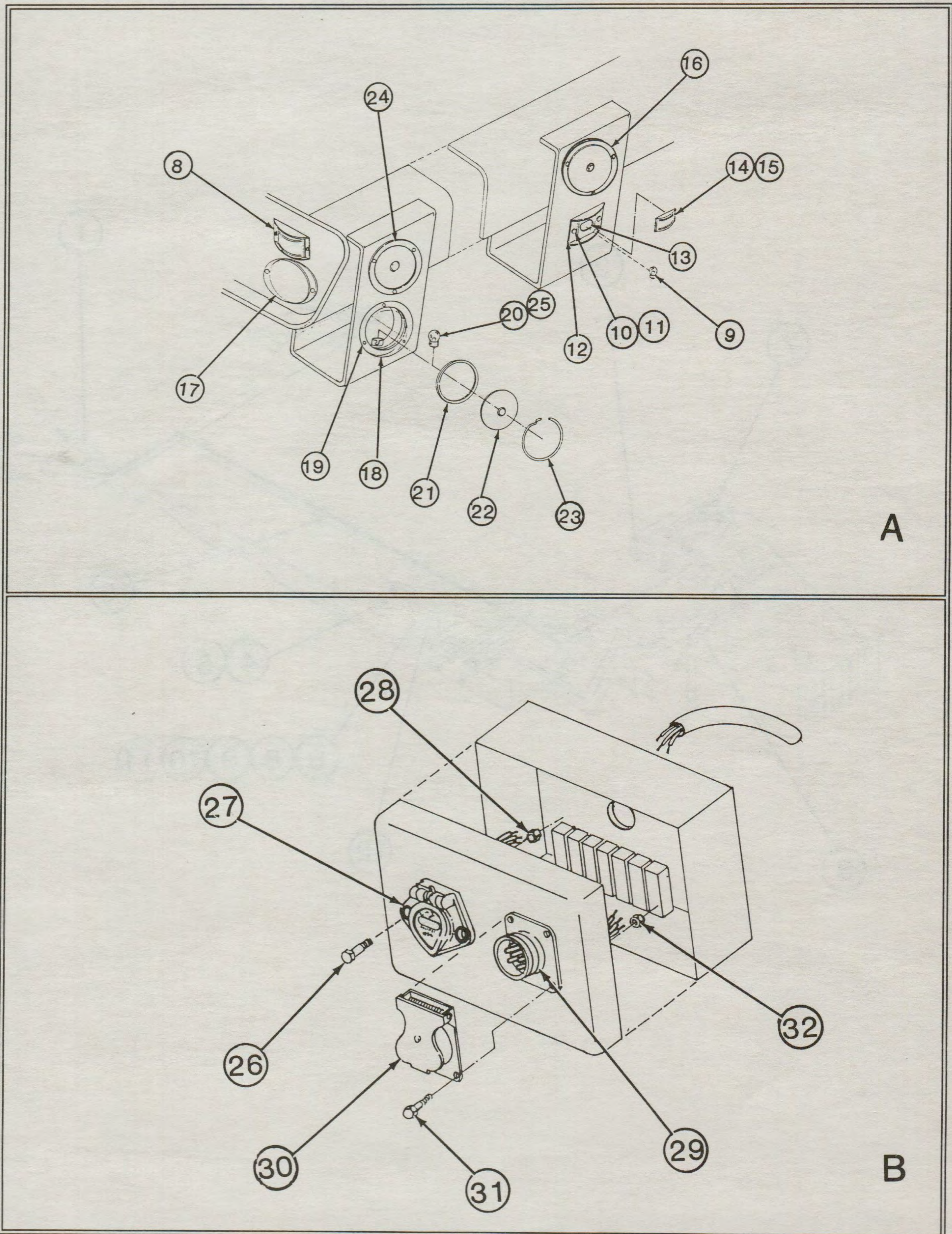
ELECTRICAL SYSTEM (Continued)

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>EIDAL PART NUMBER</u>	<u>UNITS PER ASS'Y</u>
7	Box, Junction	58807H	1
8	Lamp, Clearance, 12 Volt, Red	52489	4
9	Bulb, 12 Volt	56720	8
10	Screw, Lens Clip	56719	16
11	Lens Clip	56718	16
12	Pad, Light Mounting	56721	8
13	Gasket, Lens	56722	8
14	Lens, Red	56487	4
15	Lens, Amber	56723	4
16	Lamp, Caution, Amber	52496	2
17	Reflector, Red (Rear)	3010-0106-00	2
	Reflector, Amber (Front)	3010-0107-00	6
18	Lamp, Stop and Tail, 12 Volt, Red	52495	2
19	Screw, Self-Tapping, #10-24x5/8"	52542-2	62
20	Bulb, 12 Volt	56512	2
21	Gasket, Lens	56651	6
22	Lens, Red	56489	4
	Lens, Amber	56490	2
23	Snap Ring	55960	6
24	Lamp, Turn Signal, 12 Volt, Red	52497	2
25	Bulb, 12 Volt, Single	56513	4
26	Bolt, Hex Hd., 5/16"-18UNC x 3/4"	58804H-1	2
27	Receptacle Assembly, 12 Volt	3010-6120-00	1
28	Nut, Hex, 5/16"-18UNC	50541	2
29	Receptacle Assembly, 24 Volt	3010-6120-35	1

4-10. ELECTRICAL SYSTEM (Continued)

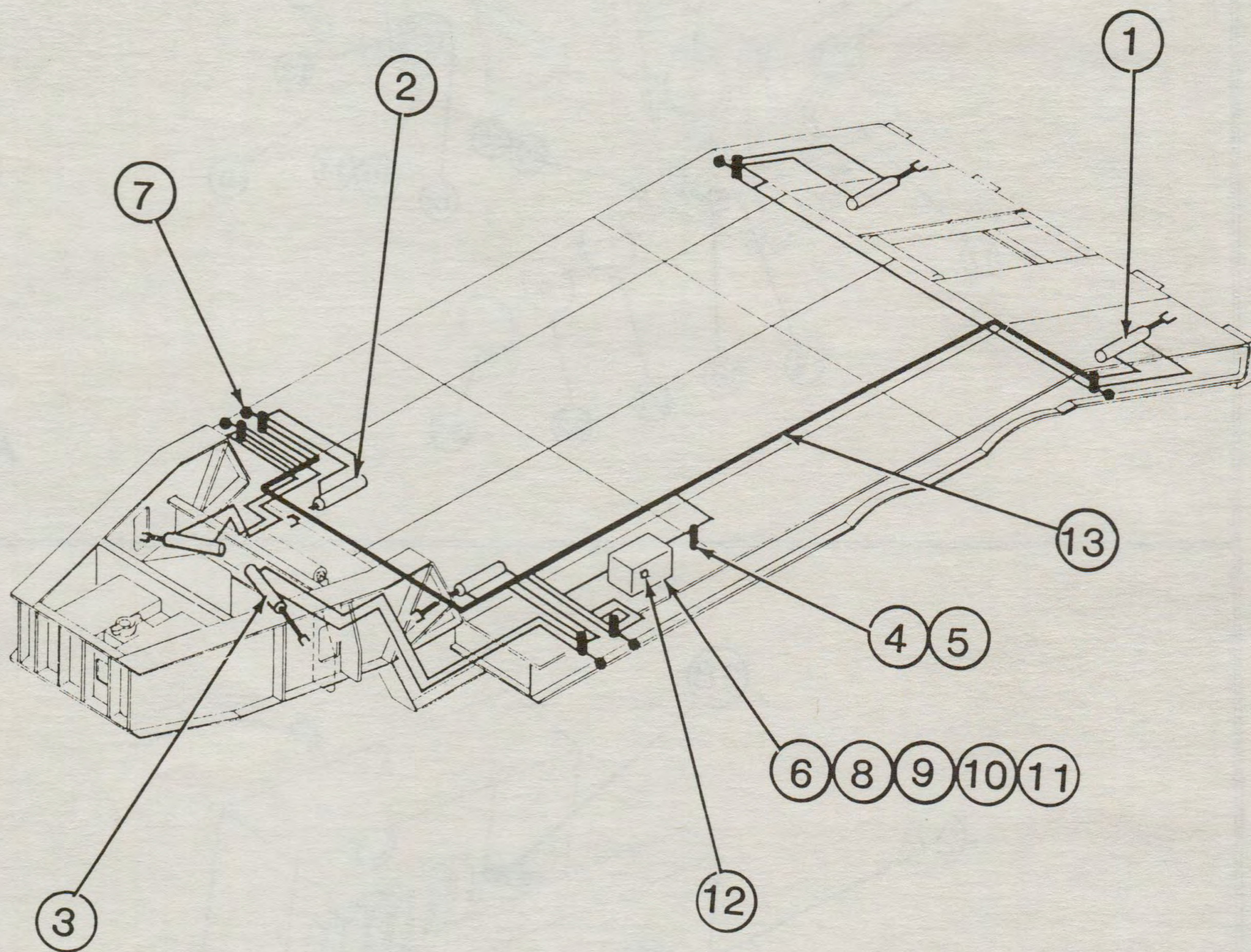
<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>EIDAL PART NUMBER</u>	<u>UNITS PER ASS'Y</u>
30	Cover, Receptacle	3010-6110-07	1
31	Bolt, Hex Hd., 1/4"-20UNC x 3/4"	50014-4	4
32	Nut, Hex Head, 1/4"-20UNC	50022-1	4
33	Lamp, Clearance, 12 Volt, Amber	52488	4

4-10. ELECTRICAL SYSTEM (Continued)



4-10.1 LIGHTS, REFLECTORS, AND RECEPTACLE ASSEMBLY

4-11. HYDRAULIC SYSTEM



4-11. HYDRAULIC SYSTEM (Continued)

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>EIDAL PART NUMBER</u>	<u>UNITS PER ASS'Y</u>
1	Hydraulic Cylinder, Ramp	58774H	2
2	Hydraulic Cylinder, Landing Gear	58775H	2
3	Hydraulic Cylinder, Spare Tire Carrier	58776H	2
4	Hydraulic Filter	58795H	1
5	Hydraulic Filter Element	58777H	1
6	Hydraulic Reservoir	58796H	1
7	Hydraulic Valve	58795H	6
8	Bolt, Hex Head, .25-20UNC x 1.00 Lg.	50013-3	4
9	Flat Washer, .25 Nom. Dia.	50023-1	4
10	Lockwasher, .25 Nom. Dia.	50024-1	4
11	Nut, Hex, .25-20UNC-2B	50022-1	4
12	Plug, Liquid Storage Sight	58798H	1
13	Hose Kit (Not Shown)	58790H	1