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TECHNICAL MANUAL
ILLUSTRATED PARTS BREAKDOWN

INSTALLATION AND REMOVAL TRAILER

MODELS 4000A AND 4000B

(AIR LOGISTICS)

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1 MARCH 1961
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PUBLISHED UNDER AUTHORITY OF THE SECRETARY OF THE AIR FORCE

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"A"	Original
i	Original
ii Blank	Original
1-1 thru 1-3	Original
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TABLE OF CONTENTS

<i>Section</i>	<i>Page</i>	<i>Section</i>	<i>Page</i>
I INTRODUCTION	1-1	Figure 10. Hydraulic Installation, Part No. 101825	2-16
1-1. General	1-1	Figure 11. Hydraulic Installation, Part No. 103350	2-18
1-3. Table of Contents	1-1	Figure 12. Hydraulic Installation, Part No. 103658	2-21
1-5. Group Assembly Parts List	1-1	Figure 13. Hydraulic Installation, Part No. 104950 and 104950-501	2-24
1-7. Numerical Index	1-1	Figure 14. Hydraulic Installation, Part No. 106541-1	2-28
1-9. Source Code Definitions	1-2	Figure 15. Hydraulic Lines Support Cover Assembly, Part Nos. 102076 and 104942	2-32
1-10. Reference Designation Index	1-2	Figure 16. Connecting Rod Link, Part No. 111476	2-33
1-12. Use of Illustrated Parts Breakdown	1-2	Figure 17. Brake Pedal Assembly, Part No. 101694	2-34
1-14. Vendors Code	1-2	Figure 18. Wheel Hub Tire and Tube Assembly	2-35
II GROUP ASSEMBLY PARTS LIST	2-1	Figure 19. Brake Assembly, Part No. 51284	2-36
Figure 1. Installation and Removal Trailer, Models 4000A and 4000B	2-1	Figure 20. Brake Assembly, Part No. 51682	2-37
Figure 2. Winch Drive Assembly, Part Nos. 102286 and 104401	2-6	Figure 21. Chassis Assembly, Part No. 101853	2-37
Figure 3. Winch Assembly, Part No. 102215	2-7	Figure 22. Tie-Rod Assembly, Part No. 111407	2-41
Figure 4. Winch Assembly, Part No. 103680	2-8	Figure 23. Main Frame Assembly, Part No. 102053	2-41
Figure 5. Transfer Rail Frame Assembly, Part No. 101932	2-10	III NUMERICAL INDEX	3-1
Figure 6. Rotation Adjustment Assembly, Part No. 101968	2-12		
Figure 7. Rotation Adjustment Assembly, Part No. 105160	2-13		
Figure 8. Traverse Adjustment Assembly, Part No. 102088	2-14		
Figure 9. Upper Frame Assembly, Part No. 102063	2-14		

SECTION I INTRODUCTION

1-1. GENERAL.

1-2. This Illustrated Parts Breakdown lists and illustrates all parts for the Model 4000A and Model 4000B, Installation and Removal Trailer, manufactured by Air Logistics Corporation, Pasadena, California. There are seven separate blocks of serial numbers which are coded in the "Usable on Code" columns of the Group Assembly Parts list, Section II.

Note

This handbook does not contain maintenance information. For maintenance of the equipment, refer to applicable Handbook of Operation, Service and Repair Instructions.

1-3. TABLE OF CONTENTS.

1-4. The Table of Contents at the front of the handbook serves as a guide to sequence of assemblies and sub-assemblies and the page number on which they appear.

1-5. GROUP ASSEMBLY PARTS LIST, SECTION II.

1-6. The Group Assembly Parts List consists of the complete trailer divided into 23 group assemblies as shown in the Table of Contents. Each group assembly listed is followed first by its attaching parts, then by its detail parts properly indented to show their relationship to the assembly. The major assembly list and the group assembly lists are cross referenced by figure and index numbers. Explanation of columns contained in the Group Assembly Parts List is as follows:

a. The "Figure and Index Number" column lists the figure number assigned to each group assembly and the index number assigned to each detail part of each group assembly.

b. The numbers appearing in the "Part Number" column are either Air Logistics Corporation, Government standard or Vendor part numbers. Common parts commercially available are listed as "COMM".

c. The "Description" column lists the noun followed by the description nomenclature except for Government standard parts which are listed by noun only. The description of each part is indented under columns "1" through "7" to indicate its relationship to the next higher assembly. Attaching parts are listed immediately after the items which they attach, preceding any detail

parts of that item. They are captioned "(ATTACHING PARTS)" and are separated from subsequent listings by the symbol "— — — * — — —". In the case of vendor purchased items, the vendors code or name and address are included immediately after the description.

d. The quantities used in the "Units per Assembly" column are, in the case of assemblies, the total quantity used per trailer, while the component parts indented under the assemblies are the total used per assembly. The quantities specified—therefore—are not necessarily the total used per trailer. Refer to the "Numerical Index", Section III, total quantities per trailer. The letters "REF" are inserted in the "Units per Assembly" column to indicate the assembly is listed elsewhere in the publication. The description column will indicate parenthetically where the listing occurs.

e. The "Usable on Code" column provides a means of coding part variations within the Group Assembly Parts list. Variations between serial number blocks of the trailer are indicated by letter symbol as outlined below. In cases where the "Usable on Code" column has been left blank, parts listed apply to all trailers.

USABLE ON CODE	TRAILER MODEL	TRAILER SERIAL NUMBERS
A	4000A	196 through 345
B	4000A	346 through 520
C	4000A	521 through 670
D	4000A	671 through 1320
E	4000A	1321 through 1620
F	4000A	1621 through 10000
G	4000A	10001 through 20000
H	4000B	1 and subsequent
I	Code "I" applies to all trailers which have been modified in accordance with TCTO 35D3-3-34-503.	

1-7. NUMERICAL INDEX.

1-8. The "Numerical Index", Section III, lists all of the part numbers in the Group Assembly Parts lists, Section II, in alphabetical-numerical sequence in accordance with the following system:

a. Part number numerical arrangement starts on the left hand column and continues from left to right, one

Section I

Paragraphs 1-9 to 1-15

column at a time, until part number numerical arrangement is determined.

b. The order of precedence in part number numerical sequence arrangement is as follows:

Space (blank columns)

Dash (—)

Letters A through Z

Numerals 0 through 9

(Alphabetical "O"s are considered as numerical "0"s.)

c. "No Number" and commercial parts are listed by their principal identifying noun in their proper alphabetical-numerical sequence.

d. The "Qty per Art" column of the Numerical Index indicates the total quantity of each part per trailer.

1-9. SOURCE CODE DEFINITIONS.

a. CODE "A". ASSEMBLE. ASSEMBLY NOT PROCURED.

(1). Code "A" is applied to assemblies composed of two or more units, each of which carry individual part numbers and descriptions and which may be assembled by any maintenance level.

(2). Code "A1" is applied to assemblies composed of two or more parts each of which carry individual part numbers and descriptions and which may be assembled only by activities having depot (O & R) facilities.

b. CODE P. PARTS UNDER INVENTORY STOCK CONTROL.

(1). Code "P" is applied to parts which are procured in view of relatively frequent usage. Code "P" parts may be requisitioned and installed by any maintenance level, unless followed by the letter "O" which restricts requisitioning and replacement to depot (O & R) level only. Restricted service manufacture is considered practicable but only after an attempt has been made to procure these parts from supply sources. In lieu of procurement "P" coded parts, the Department may designate a depot (O & R) activity to manufacture and supply requirements for the program.

(2). Code "P1" is applied to parts which are very difficult or uneconomical to manufacture. Service manufacture is considered impracticable. Code "P1" parts may be requisitioned and installed by any maintenance level unless followed by the letter "O" which restricts requisition and replacement to depot (O & R) level only.

c. CODE X. PARTS CONSIDERED IMPRACTICAL FOR MANUFACTURE OR PROCUREMENT.

(1). Code "X" is applied to main structural numbers or similar parts which, if required, would suggest expensive equipment reconditioning. The need of a part or parts coded "X" should normally result in a recommendation to retire the equipment from service.

(2). Code "X1" is applied to parts for which procurement of the next larger assembly is justified.

(3). Code "X2" is applied to parts which are neither procured nor stocked. Activities requiring such parts shall attempt to obtain them from salvage. If not

obtainable through salvage, such parts shall be requisitioned through normal supply channels with supporting justification.

d. CODE "*" is applied to installation drawings, diagrams, instructions or field service drawings, basic drawings which cannot be procured or manufactured and obsolete parts.

1-10. REFERENCE DESIGNATION INDEX.

1-11. There is no "Reference Designation Index" Section IV required for this Illustrated Parts Breakdown.

1-12. USE OF THE ILLUSTRATED PARTS BREAKDOWN.

1-13. Procedural steps for locating part numbers, part illustrations and figure numbers, when complete information is not known, is as follows:

a. When a part number is known and it is desired to find its illustration, locate the number in the Numerical Index, Section III. Turn to the illustration indicated in the Figure and Index number column, and locate the part in the illustration, using the index number assigned. The parts list accompanying that illustration will list the part number and full description of the part opposite the same index number.

b. When the configuration and location of a part is known, but the part number and description is not known, turn to the Table of Contents and locate the figure title within which the part would be found. Turn to the page indicated and locate the part and its assigned index number on the illustration. The part number and description will be found opposite that number on the accompanying parts list and stocking of these parts is not justified in view of the relatively infrequent usage or storage and installation factors. The needs of all facilities are to be met through salvage or by depot (O & R) level manufacture.

1-14. VENDORS CODE.

1-15. Vendors Codes (Per A/W Federal Catalog, handbook H4-1) applied in this handbook are as follows and will be found immediately following the description of the part.

CODE	VENDORS NAME AND ADDRESS
00155	Micron Machine Corp., Brooklyn, New York
00481	Asco Sintering Co., Los Angeles, California
00574	Advance Gear and Machine Corp., Los Angeles, California
00630	Gilco Engineering Co., Pasadena, California
04634	Sevenstrand Tackle Manufacturing Company Long Beach, California
21335	Fafnir Bearing Co., New Briton, Conn.
45681	Parker Appliance Co., Cleveland, Ohio

47296	Wm. S. Pine Co., Los Angeles, California	86768	Republic Manufacturing Co., Cleveland, Ohio
59875	Thompson Products Inc., Cleveland, Ohio	88122	Boston Gear Works Quincy, Mass.
60038	Timken Roller Bearing Co., Canton, Ohio	89326	Barksdale Valves Los Angeles, California
72962	Elastic Stop Nut Corp., Union, New Jersey	89412	Flex-O-Tube Division of Flexonics Corp., Maywood, Illinois
73134	Heim Bearing Co., Fairfield, Conn.	91130	Vinson Mfg. Co., Inc. Van Nuys, California
78553	Tinnerman Products Inc., Cleveland, Ohio	91561	Bruning Co., Lincoln, Nebraska
79136	Waldes Koh-I-Noor Inc., Long Island City, New York	92029	Pneu-Trol Devices Inc., Chicago, Illinois
81321	Purolator Products, Inc., Rahway, New Jersey	92798	Johns Manville Corp., Manville, New Jersey
81376	Southwest Products, Inc., Duarte, California	97978	D. W. Price Corp. Los Angeles, California
82106	Bertea Products Pasadena, California	99946	J. M. Beach Associates Dayton, Ohio
83269	Welded Construction & Engineering Co., Cleveland, Ohio		
83445	Aerol Manufacturing Co., Los Angeles, California		

Note

Stock numbers for parts listed in this Illustrated Parts Breakdown will be found in the S-00-1-1 Master Cross Reference Index.

SECTION II

GROUP ASSEMBLY PARTS LIST

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY	USABLE ON CODE
		1 2 3 4 5 6 7		
1-	100628A	TRAILER, Model 4000A Installation & Removal (Serial Nos 196 through 345)	Ref.	A
	100628A	TRAILER, Model 4000A Installation & Removal (Serial Nos 346 through 520)	Ref.	B
	100628A	TRAILER, Model 4000A Installation & Removal (Serial Nos 521 through 670)	Ref.	C
	100628A	TRAILER, Model 4000A Installation & Removal (Serial Nos 671 through 1320)	Ref.	D
	100628A	TRAILER, Model 4000A Installation & Removal (Serial Nos 1321 through 1620)	Ref.	E ✓
	100628A	TRAILER, Model 4000A Installation & Removal (Serial Nos 1621 through 10,000)	Ref.	F
	100628A	TRAILER, Model 4000A Installation & Removal (Serial Nos 10,001 through 20,000)	Ref.	G
	106700	TRAILER, Model 4000B, Installation & Removal	Ref.	H
- 1	102286	DRIVE ASSEMBLY, Winch (See figure 2)	1	A, B, C
	104401	DRIVE ASSEMBLY, Winch (See figure 2) (ATTACHING PARTS)	1	D, E, F, G, H
- 2	MS20365-428C	NUT	3	
- 3	AN4-7A	BOLT	3	
- 4	MS171654	PIN, Spring -----*	1	
- 5	102215	WINCH ASSEMBLY (See figure 3)	1	A, B, C
	103680	WINCH ASSEMBLY (See figure 4) (ATTACHING PARTS)	1	D, E, F, G, H
- 6	AN5-10A	BOLT	8	
- 7	MS20364-524C	NUT	8	
- 8	AN960-516	WASHER -----*	8	
- 9	101932	FRAME ASSEMBLY, Transfer rail (See figure 5) (ATTACHING PARTS)	1	
-10	AN381-3-12	PIN, Cotter	1	
-11	AN320-7	NUT	1	
-12	AN960-716	WASHER	1	
-13	102349	SCREW, Machine	1	
-14	MS20365-524C	NUT	8	
-15	AN935-516	WASHER	8	
-16	AN509-516R14	SCREW	8	
-17	102035	STRAP, Rail support tube retaining -----*	4	
-18	NAS74A7-007P	BUSHING	1	
	102034	ROLLER ASSEMBLY, Rail tube support (ATTACHING PARTS)	4	
-19	AN525-416-6	SCREW	8	
-20	AN936B416	WASHER	8	
-21	102104	WASHER, Roller pin retaining	8	
-22	102036	PIN, Rail support tube roller -----*	4	
-23	102034-3	ROLLER	1	
-24	FB1620-6	BEARING, Sleeve (88122)	2	

Section II
Group Assembly Parts List

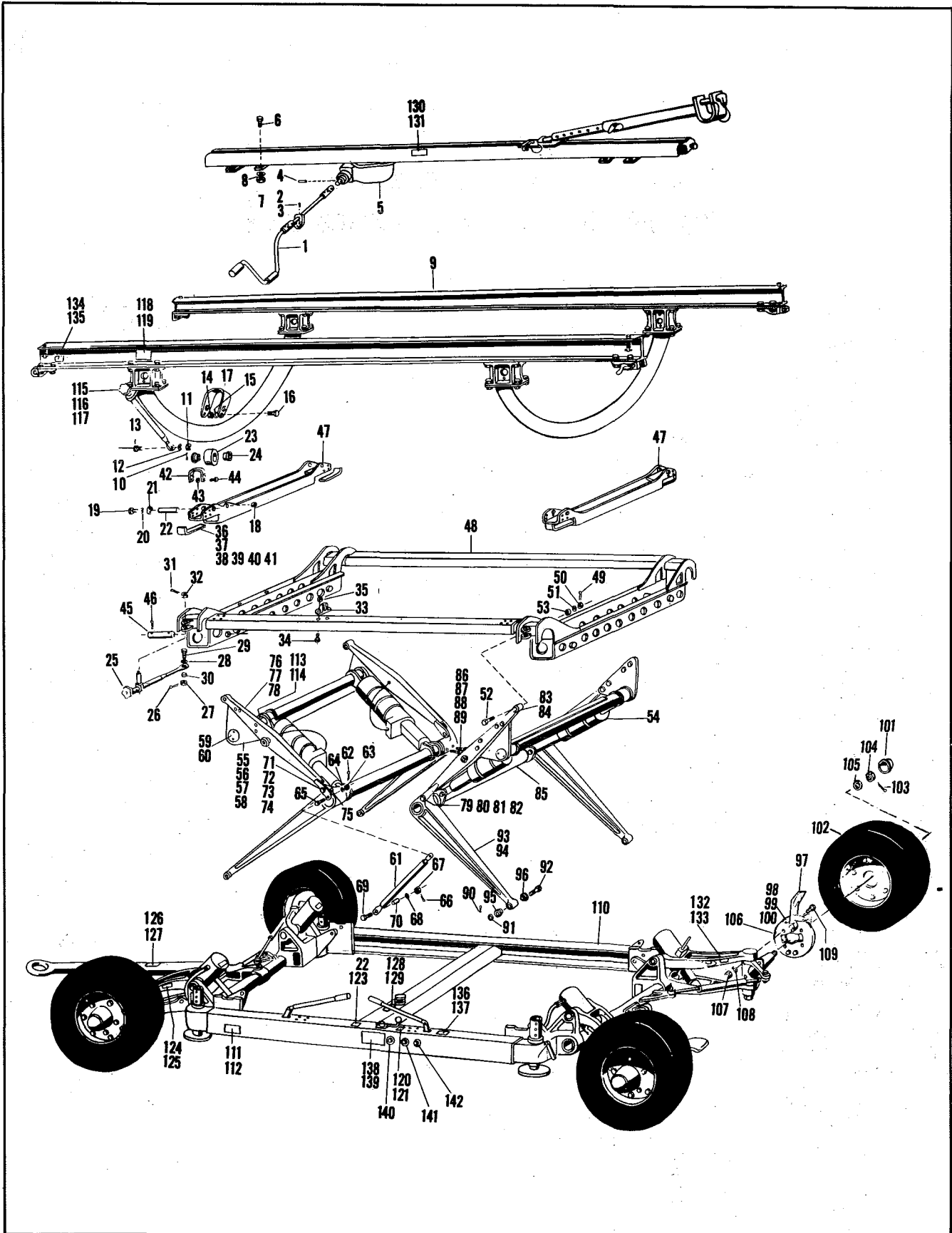


Figure 1. Installation and Removal Trailer, Model 4000A

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		
1-25	102088	.							8	
		.								
		.								
-26	AN381-3-12	.							2	
-27	AN320-6	.							2	
-28	AN960-616	.							2	
-29	AN6-12	.							2	
-30	NAS74A6-005P	.							2	
-31	AN381-3-12	.							2	
-32	AN320-8	.							2	
		.								
-33	102366	.							1	A, B, C
	103802	.							1	D, E, F, G, H
		.								
-34	AN520-10R10	.							2	
-35	MS20365-1032C	.							2	
		.								
-36	102103	.							4	
		.								
-37	AN4-5A	.							12	
-38	AN935-416	.							12	
-39	MS20365-428	.							8	
-40	AN960-416	.							8	
-41	AN509-416R19	.							8	
		.								
-42	102037	.							2	
		.								
-43	MS20365-428C	.							8	
-44	AN509-416R14	.							8	
		.								
-45	102038	.							4	
		.								
-46	AN381-6-36	.							8	
		.								
-47	102033-1	.							1	
	102033-3	.							1	
-48	102063	.							1	
		.								
-49	AN381-3-12	.							4	
-50	AN310-8	.							4	
-51	AN960-816	.							4	
-52	AN8-63	.							4	
-53	102106	.							4	
		.								
-54	101825 ✓	.							1	A
	103350 ✓	.							1	B
	103658 ✓	.							1	C, D
	104950 ✓	.							1	E, F
	104950-501	.							1	G
	106541-1	.							1	H
-55	101686	.							2	A, B, C, D
	104941	.							2	E, F, G, H
		.								
-56	MS20364-1216C	.							16	
-57	AN960-1216L	.							16	
-58	AN12-37A	.							16	
		.								
-59	103023	.							4	A, B, C, D
-60	102956	.							4	A, B, C, D
-61	111476	.							2	
		.								
-62	AN381-3-12	.							2	
-63	AN320-6	.							2	
-64	AN960-616	.							2	
-65	AN26-18	.							2	
-66	AN381-4-16	.							2	
-67	AN310-9	.							2	
-68	AN960-916	.							2	

Section II
Group Assembly Parts List

T.O. 35D3-3-34-4

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY	USABLE ON CODE
1	2	3 4 5 6 7		
1- 69	AN9-51	BOLT	2	
- 70	111475	SPACER, Stabilizer link support	2	
		-----*		
	102105-1	LINK ASSEMBLY, Upper lift fwd LH	1	
	102105-2	LINK ASSEMBLY, Upper lift fwd RH	1	
		(ATTACHING PARTS)		
- 71	AN381-4-24	PIN, Cotter	2	
- 72	AN320-14	NUT	2	
- 73	AN960-1416	WASHER	2	
- 74	AN14-45	BOLT	2	
		-----*		
- 75	MS15001-3	FITTING, Lubrication	1	
- 76	MS15001-1	FITTING, Lubrication	1	
- 77	LSS6	BEARING (73134)	1	
- 78	102105-13	LINK	1	
	102105-14	LINK	1	
	102105-3	LINK ASSEMBLY, Upper lift aft LH	1	
	102105-4	LINK ASSEMBLY, Upper lift aft RH	1	
		(ATTACHING PARTS)		
- 79	AN381-4-24	PIN, Cotter	2	
- 80	AN320-14	NUT	2	
- 81	AN960-1416	WASHER	2	
- 82	AN14-44	BOLT	2	
		-----*		
- 83	MS15001-3	FITTING, Lubrication	1	
- 84	102105-15	LINK	1	
	102105-16	LINK	1	
- 85	101683	TUBE ASSEMBLY, Lift linkage lwr	2	
		(ATTACHING PARTS)		
- 86	MS20364-1216	NUT	8	
- 87	AN960-1216	WASHER	8	
- 88	AN12-57A	BOLT	4	
- 89	AN12-53A	BOLT	4	
		-----*		
	111413-1	LINK ASSEMBLY, Lower lift LH fwd, RH aft	2	
	111413-2	LINK ASSEMBLY, Lower lift RH fwd, LH aft	2	
		(ATTACHING PARTS)		
- 90	AN381-4-14	PIN, Cotter	4	
- 91	AN960-1016L	WASHER	4	
- 92	102120	PIN	4	
		-----*		
- 93	111413-5	LINK, LH fwd RH aft	1	
	111413-6	LINK, RH fwd LH aft	1	
- 94	MS15001-1	FITTING, Lubrication	2	
- 95	111412-1	BUSHING, Lower lift link	2	
- 96	111412-3	BUSHING, Lower lift link	2	
- 97	101694	PEDAL ASSEMBLY, Brake (See figure 17)	2	
- 98	111543	SECTOR, Brake	2	
		(ATTACHING PARTS)		
- 99	AN500A516-10	SCREW	4	
-100	AN935-516	WASHER	4	
		-----*		
-101	A260	CAP, Grease, wheel hub (83269)	4	
-102	No Number	WHEEL, HUB, TIRE & TUBE ASSEMBLY (See figure 18)	4	
		(ATTACHING PARTS)		
-103	AN381-4-28	PIN, Cotter	4	
-104	AN320-16	NUT	4	
-105	111555	WASHER, Key	4	
		-----*		
-106	51284L	BRAKE, Shoe type LH (83445). (See figure 19)	1	A, B, C, D, E
	51682L	BRAKE, Shoe type, LH (83445) (See figure 20)	1	F, G, H
	51284R	BRAKE, Shoe type RH (83445) (See figure 19)	1	A, B, C, D, E
	51682R	BRAKE, Shoe type RH (83445) (See figure 20)	1	F, G, H

Section II
Group Assembly Parts List

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
1	2	3	4	5	6	7				
		(ATTACHING PARTS)								
1-107	MS20365-624C	NUT							8	
-108	AN960-616	WASHER							8	
-109	AN6-11A	BOLT							8	
		-----*								
-110	101853	CHASSIS ASSEMBLY (See figure 21)							1	A,B,C,D,E,F,H
	101853-501	CHASSIS ASSEMBLY (See figure 21)							1	G
-111	102302	PLATE, Instruction							1	A, B
	104398	PLATE, Instruction							1	C, D, E, F, G
	104398-501	PLATE, Instruction							1	H
		(ATTACHING PARTS)								
-112	AN535-0-3	SCREW, Drive							6	
		-----*								
-113	102379	PLATE, Instruction							2	A, B, C, D
		(ATTACHING PARTS)								
-114	AN535-0-3	SCREW, Drive							4	A, B, C, D
		-----*								
-115	102827	PLATE, Instruction							3	
		(ATTACHING PARTS)								
-116	AN535-0-3	SCREW, Drive							2	
-117	AN530-2R3	SCREW, Drive							4	
		-----*								
-118	102297	PLATE, Instruction							2	A,B,C,D,E,F,G,H
	109291	PLATE, Instruction							2	I
		(ATTACHING PARTS)								
-119	AN535-0-3	SCREW, Drive							4	
		-----*								
-120	102061	PLATE, Instruction							1	A, B, C, D
	103666	PLATE, Instruction							1	E, F, G, H
		(ATTACHING PARTS)								
-121	AN535-0-3	SCREW, Drive							4	
		-----*								
-122	111503	PLATE, Instruction							1	
		(ATTACHING PARTS)								
-123	AN535-0-3	SCREW, Drive							4	
		-----*								
-124	111504	PLATE, Instruction							4	
		(ATTACHING PARTS)								
-125	AN535-0-3	SCREW, Drive							8	
		-----*								
-126	103016	PLATE, Instruction							1	
		(ATTACHING PARTS)								
-127	AN535-0-3	SCREW, Drive							2	
		-----*								
-128	111527	PLATE, Instruction							1	A, B, C, D
	104964	PLATE, Instruction							1	E, F, G, H
		(ATTACHING PARTS)								
-129	AN535-0-3	SCREW, Drive							2	
		-----*								
-130	103344	PLATE, Instruction							1	C,D,E,F,G,H
		(ATTACHING PARTS)								
-131	AN535-0-3	SCREW, Drive							2	
		-----*								
-132	111547	PLATE, Instruction							4	
		(ATTACHING PARTS)								
-133	AN335-0-3	SCREW, Drive							8	
		-----*								
-134	111548	PLATE, Instruction								
		(ATTACHING PARTS)								
-135	AN535-0-3	SCREW, Drive							8	
		-----*								
-136	111542	PLATE, Instruction							2	A, B
		(ATTACHING PARTS)								
-137	AN535-0-3	SCREW, Drive							4	A, B
		-----*								
-138	104243	PLATE, Trailer identity							1	A,B,C,D,E,F,G
	104243-503	PLATE, Trailer identity							1	H

Section II
Group Assembly Parts List

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		
		(ATTACHING PARTS)								
1-139	AN535-0-3	.	SCREW, Drive	.	.	.	.	.	4	
		.	-----*	.	.	.	.	.		
-140	106076-1	.	NAMEPLATE, Port identification, No. 1	.	.	.	.	.	1	H
-141	106076-2	.	NAMEPLATE, Port identification, No. 2	.	.	.	.	.	1	H
-142	106076-3	.	NAMEPLATE, Port identification, No. 3	.	.	.	.	.	1	H

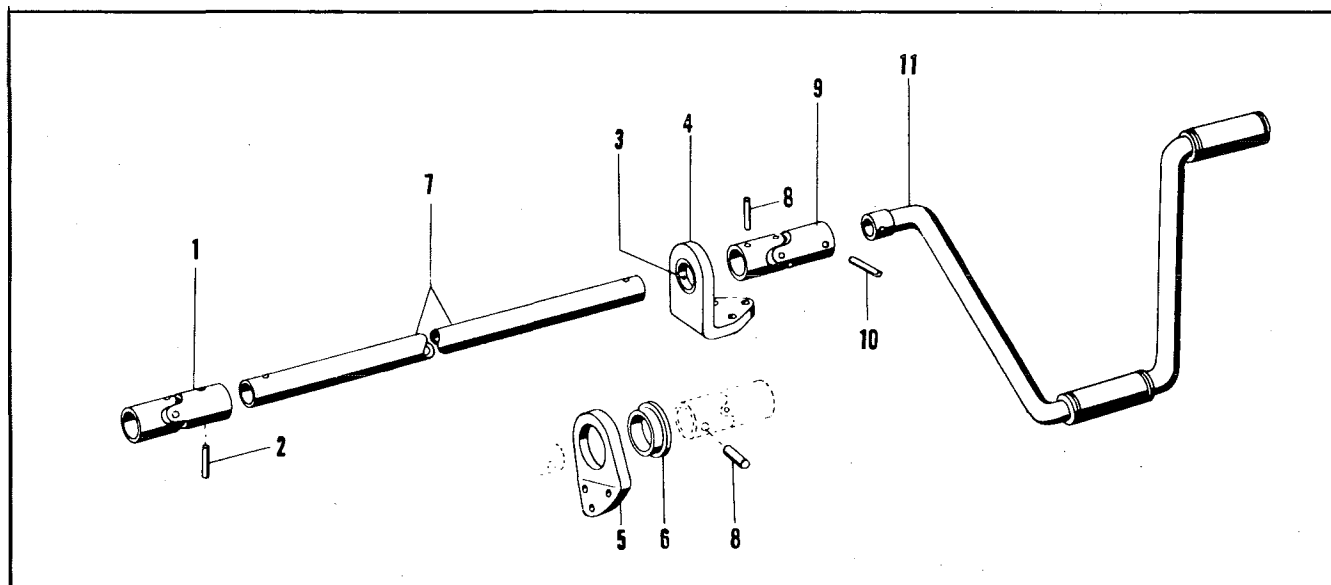


Figure 2. Winch Drive Assembly, Part Nos. 102286 and 104401

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		
2-	102286	.	DRIVE ASSEMBLY, Winch (See figure 1-1 for next higher assembly)	.	.	.	.	.	Ref.	A, B, C
	104401	.	DRIVE ASSEMBLY, Winch (See figure 1-1 for next higher assembly)	.	.	.	.	.	Ref.	D, E, F, G, H
- 1	102319	.	UNIVERSAL JOINT	.	.	.	.	.	1	
		.	(ATTACHING PARTS)	.	.	.	.	.		
- 2	MS171654	.	PIN, Spring	.	.	.	.	.	1	
		.	-----*	.	.	.	.	.		
	102676	.	BRACKET ASSEMBLY, Torque tube	.	.	.	.	.	1	A, B, C
- 3	KP12A	.	BEARING (21335)	.	.	.	.	.	1	A, B, C
- 4	102676-3	.	BRACKET	.	.	.	.	.	1	A, B, C
- 5	104403	.	BRACKET, Torque tube	.	.	.	.	.	1	D, E, F, G, H
- 6	103463	.	BUSHING, Sleeve	.	.	.	.	.	1	D, E, F, G, H
- 7	102287	.	TUBE, Torque	.	.	.	.	.	1	A, B, C
	104402	.	TUBE, Torque	.	.	.	.	.	1	D, E, F, G, H
		.	(ATTACHING PARTS)	.	.	.	.	.		
- 8	MS171654	.	PIN, Spring	.	.	.	.	.	1	A, B, C
	104451	.	PIN, Straight, headless	.	.	.	.	.	1	D, E, F, G, H
		.	-----*	.	.	.	.	.		
- 9	102842	.	UNIVERSAL JOINT	.	.	.	.	.	1	
		.	(ATTACHING PARTS)	.	.	.	.	.		
-10	MS171654	.	PIN, Spring	.	.	.	.	.	1	
		.	-----*	.	.	.	.	.		
-11	102289	.	CRANK, Hand	.	.	.	.	.	1	A, B, C
	104443	.	CRANK, Hand	.	.	.	.	.	1	D, E, F, G, H

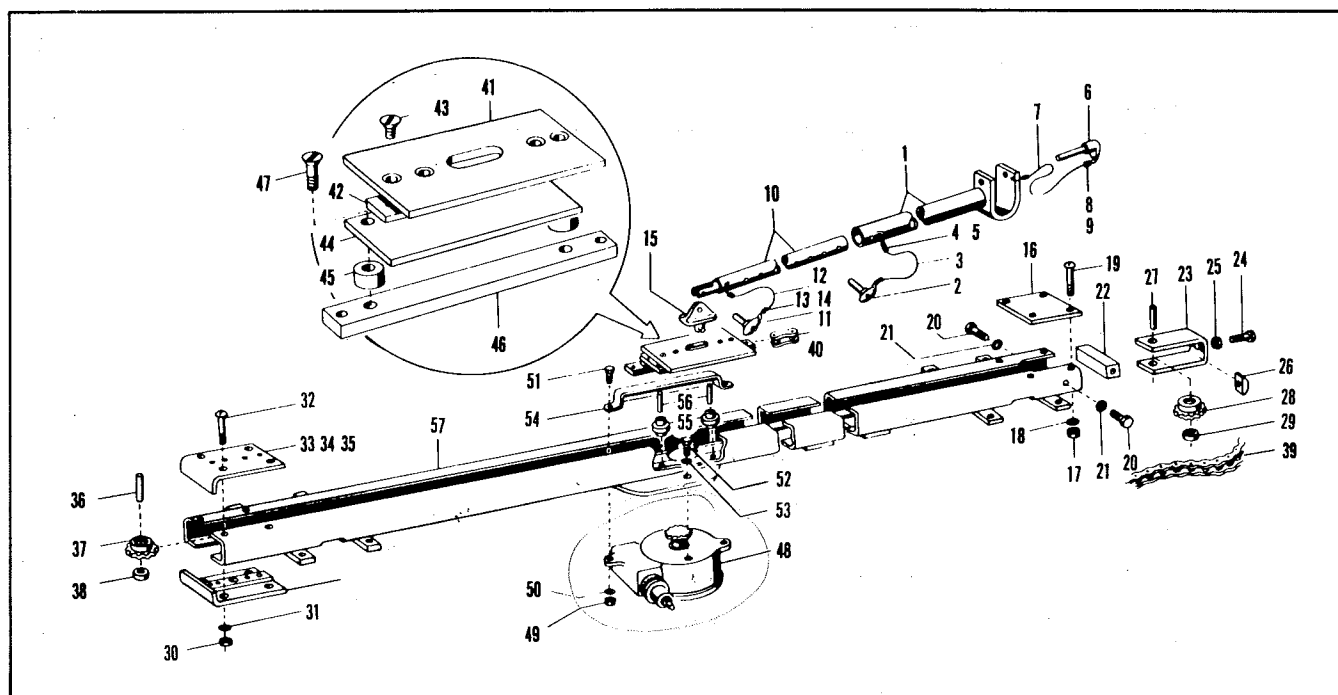


Figure 3. Winch Assembly, Part No. 102215.

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY	USABLE ON CODE
		1 2 3 4 5 6 7		
NOTE: This Parts Breakdown applies to trailers, Codes A, B, C. For Trailers, Codes D, E, F, G, H, see Figure 4.				
3-	102215	WINCH ASSEMBLY (See figure 1-5 for next higher assembly)	Ref.	A, B, C
	107045	TUBE ASSEMBLY, Drawbar outer	1	
- 1	107045-9	TUBE	1	
- 2	BL-ST58-1.750	PIN, Quick release (97978)	1	
	S102408-11	CABLE ASSEMBLY	1	
- 3	S102408-1550	CABLE	1	
- 4	12	SWAGING SLEEVE, Wire rope (04634)	2	
- 5	S102408-503	COVER	2	
- 6	BL-SLS6-2.750	PIN, Quick release (97979)	1	
	S102408-11	CABLE ASSEMBLY	1	
- 7	S102408-1550	CABLE	1	
- 8	12	SWAGING SLEEVE, Wire rope (76691)	2	
- 9	S102408-503	COVER	2	
	107044	TUBE ASSEMBLY, Drawbar inner	1	
-10	107044-7	TUBE ASSEMBLY	1	
-11	BL-ST55-1.250	PIN, Quick release (97978)	1	
	S102408-5	CABLE ASSEMBLY	1	
-12	S102408-950	CABLE	1	
-13	12	SWAGING SLEEVE, Wire rope (04634)	2	
-14	S102408-503	COVER	2	
-15	102281	FITTING, Drawbar	1	
-16	102276	PLATE, Adjust end cover winch (ATTACHING PARTS)	1	
-17	MS20364-428C	NUT	4	
-18	AN960-416L	WASHER	4	
-19	AN24-36A	BOLT, Clevis	4	
		* — — — —		
-20	AN8-14A	BOLT	2	
-21	AN935-816	WASHER	2	
-22	102278	SPACER	1	
-23	102282	YOKE, Winch chain take-up	1	
-24	102927	BOLT, Winch chain tension adjust	1	
-25	AN335-8	NUT	1	

Section II
Group Assembly Parts List

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY	USABLE ON CODE
		1 2 3 4 5 6 7		
3-26	102292	NUT, Adjust	1	
-27	104232	PIN, Straight, headless	1	
-28	102279	SPROCKET, Wheel	1	
-29	AN207DPP8	BEARING, Ball, air frame	1	
	102273	PLATE ASSEMBLY, Head (ATTACHING PARTS)	2	
-30	MS20364-428C	NUT	4	
-31	AN960-416L	WASHER	4	
-32	AN24-38A	BOLT	4	
		----- *		
-33	*102274	PLATE, Head	1	
-34	102275	SPACER, Plate head (ATTACHING PARTS)	1	
-35	*AN427-8C10	RIVET	6	
		----- *		
-36	104232	PIN, Straight, headless	1	
-37	102279	SPROCKET, Wheel	1	
-38	AN207DPP8	BEARING, Ball, air frame	1	
-39	102215-3	CHAIN, Roller (ATTACHING PARTS)	1	
-40	50	LINK, Connecting (71041)	2	
		----- *		
	102255	SLIDER ASSEMBLY, Winch	1	
-41	102253	PLATE, Slider	1	
-42	102254-3	GUIDE, Slider (ATTACHING PARTS)	2	
-43	AN509-516R-10	SCREW	4	
		----- *		
	102252	CARRIER ASSEMBLY, Winch	1	
-44	102249	PLATE	1	
-45	102250	SPACER	2	
-46	102251	BAR (ATTACHING PARTS)	1	
-47	AN509-616R18	SCREW	2	
		----- *		
-48	L120	GEAR ASSEMBLY, Speed decreaser (00574) (Air Log Spec Cont Dwg 102260) (ATTACHING PARTS)	1	
-49	MS20364-820C	NUT	2	
-50	AN960-816L	WASHER	2	
-51	AN8-12A	BOLT	2	
-52	AN8-7A	BOLT	1	
-53	AN935-816	WASHER	1	
		----- *		
-54	102365	COVER, Winch sprocket	1	
-55	102272	IDLER, Winch chain	2	
-56	102378	PIN, Winch idler	2	
-57	102259	RAIL ASSEMBLY, Winch	1	

*Not procurable as a separate part. Order next higher assembly.

NOTE: This Parts Breakdown applies to trailers, Codes D, E, F, G, H. For trailers, Codes A, B, C, see figure 3.

4-	103680	WINCH ASSEMBLY (See figure 1-5 for next higher assembly)	Ref. D, E, F, G, H
	107045	TUBE ASSEMBLY, Drawbar outer	1
- 1	107045-9	TUBE	1
- 2	BL-STS8-1.750	PIN, Quick release (97978)	1
	S102408-11	CABLE ASSEMBLY	1
- 3	S102408-503	COVER	2
- 4	12	SWAGING SLEEVE, Wire rope (04634)	2
- 5	S102408-1550	CABLE	1
- 6	BL-SLS6-2.750	PIN, Quick release (97978)	1
	S102408-11	CABLE ASSEMBLY	1
- 7	S102408-503	COVER	2
- 8	12	SWAGING SLEEVE, Wire rope (76691)	2

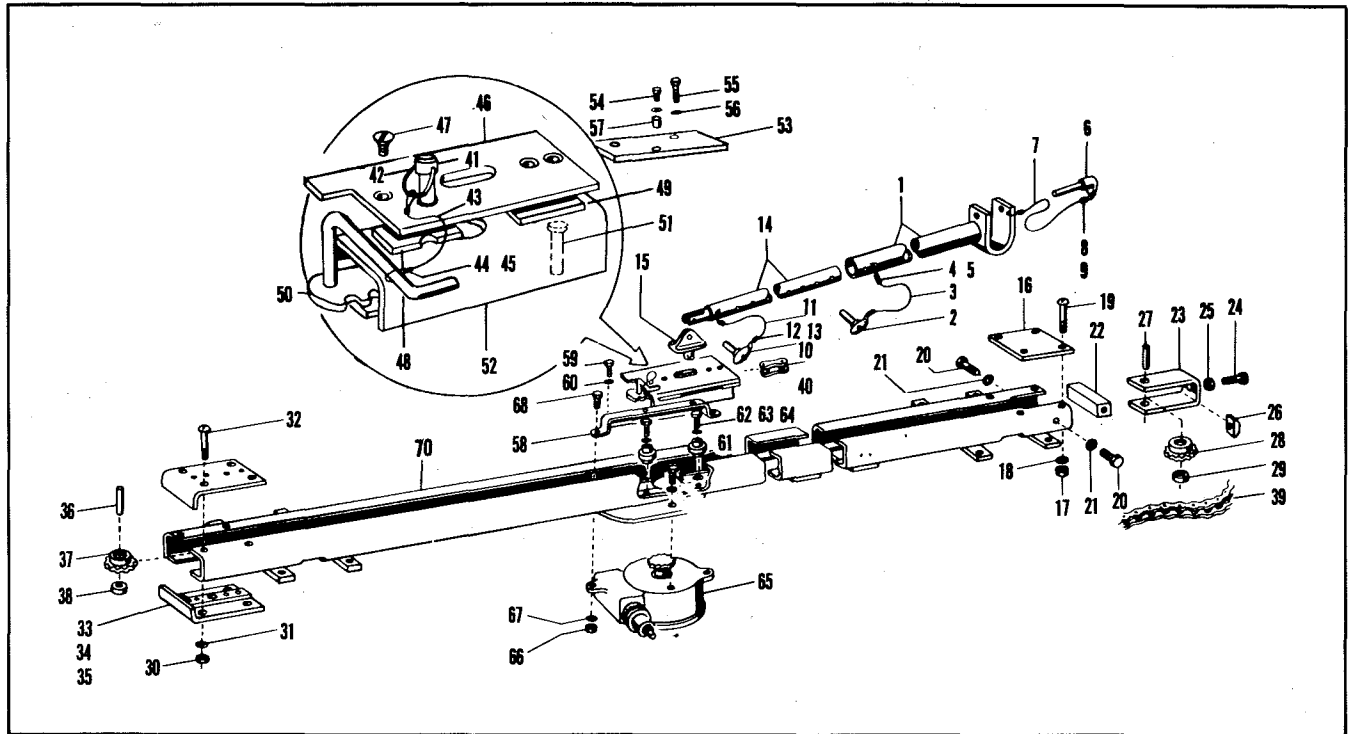


Figure 4. Winch Assembly, Part No. 103680.

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION	1	2	3	4	5	6	7	UNITS PER ASSY	USABLE ON CODE
4- 9	S102408-1550	CABLE	.	.	.	.	.	.	.	1	
	107044	TUBE ASSEMBLY, Drawbar inner	.	.	.	.	.	.	.	1	
-10	BL-ST5-1.250	PIN, Quick release (97978)	.	.	.	.	.	.	.	1	
	S102408-5	CABLE ASSEMBLY	.	.	.	.	.	.	.	1	
-11	S10248-503	COVER	.	.	.	.	.	.	.	2	
-12	12	SWAGING SLEEVE, Wire rope (04634)	.	.	.	.	.	.	.	2	
-13	S102408-950	CABLE	.	.	.	.	.	.	.	1	
-14	107044-7	TUBE ASSEMBLY	.	.	.	.	.	.	.	1	
-15	102281	FITTING, Drawbar	.	.	.	.	.	.	.	1	D, E
	105754	FITTING, Drawbar	.	.	.	.	.	.	.	1	F, G, H
-16	102276	PLATE, Adjust end cover winch (ATTACHING PARTS)	.	.	.	.	.	.	.	1	
-17	MS20364-428C	NUT	.	.	.	.	.	.	.	4	
-18	AN960-416L	WASHER	.	.	.	.	.	.	.	4	
-19	AN24-36A	BOLT, Clevis	.	.	.	.	.	.	.	4	
		* — — — —	.	.	.	.	.	.	.		
-20	AN8-14A	BOLT	.	.	.	.	.	.	.	2	
-21	AN935-816	WASHER	.	.	.	.	.	.	.	2	
-22	102278	SPACER, Yoke adjust	.	.	.	.	.	.	.	1	
-23	102282	YOKE, Winch chain take up	.	.	.	.	.	.	.	1	
-24	102927	BOLT	.	.	.	.	.	.	.	1	
-25	AN335-8	NUT	.	.	.	.	.	.	.	1	
-26	102292	NUT, Adjust	.	.	.	.	.	.	.	1	
-27	104232	PIN, Straight headless	.	.	.	.	.	.	.	1	
-28	102279	SPROCKET, Wheel	.	.	.	.	.	.	.	1	
-29	AN207DDP8	BEARING, Ball, air frame	.	.	.	.	.	.	.	1	
	102273	PLATE ASSEMBLY, Head (ATTACHING PARTS)	.	.	.	.	.	.	.	2	
	MS20364-428C	NUT	.	.	.	.	.	.	.	4	
	AN960-416L	WASHER	.	.	.	.	.	.	.	4	
	AN24-38A	BOLT	.	.	.	.	.	.	.	4	
		* — — — —	.	.	.	.	.	.	.		
	*102274	PLATE, Head	.	.	.	.	.	.	.	1	

Section II
Group Assembly Parts List

T.O. 35D3-3-34-4

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY	USABLE ON CODE
1	2	3 4 5 6 7		
4-34	*102275	SPACER, Plate head (ATTACHING PARTS)	1	
-35	*AN427-8C10	RIVET -----*	6	
-36	104232	PIN, Straight, headless	1	
-37	102279	SPROCKET, Wheel	1	
-38	AN207DPP8	BEARING, Ball, air frame	1	
-39	103680-3	CHAIN, Roller	1	
-40	50	LINK, Connecting (71041)	1	
	103688	SLIDER ASSEMBLY, Winch	1	D, E
	105767	SLIDER ASSEMBLY, Winch	1	F, G, H
	103724	PIN ASSEMBLY, Locking	1	D, E
-41	104131	PIN	1	D, E
-42	104132	RING	1	D, E
	S102408-15	CABLE ASSEMBLY	1	D, E
-43	S102408-503	COVER	2	
-44	12	SWAGING SLEEVE, Wire rope (04634)	2	D, E
-45	S102408-1950	CABLE	1	D, E
-46	103687	PLATE, Top (ATTACHING PARTS)	1	
-47	AN509-516-12	SCREW -----*	4	
-48	102254-3	GUIDE, Slider	1	
-49	102254-5	GUIDE	1	
-50	103690	COMB ASSEMBLY	1	D, E
	105766	COMB ASSEMBLY (ATTACHING PARTS)	1	F, G, H
-51	103691	PIN, Pivot -----*	1	
-52	103689	PLATE ASSEMBLY, Bottom	1	D, E
	105768	PLATE ASSEMBLY, Bottom	1	F, G, H
-53	103683	COVER, Gearbox assembly (ATTACHING PARTS)	1	
-54	AN4-6A	BOLT	1	
-55	AN4-22A	BOLT	2	
-56	AN935-416L	WASHER	3	
-57	103770	SPACER, Sleeve -----*	1	
-58	103684	BRACKET, Idler (ATTACHING PARTS)	1	
-59	AN4-4A	BOLT	4	
-60	AN935-416L	WASHER -----*	4	
-61	103686	IDLER ASSEMBLY (ATTACHING PARTS)	2	
-62	AN5-15A	BOLT	2	
-63	AN935-516	WASHER	2	
-64	AN960-516	WASHER -----*	10	
-65	L120	GEAR ASSEMBLY, Speed decauser (00574) (Air Log Spec Cont Dwg 102260) (ATTACHING PARTS)	1	
-66	MS20364-820C	NUT	2	
-67	AN960-816	WASHER	2	
-68	LP8-12A	BOLT -----*	3	
69	103681	RAIL ASSEMBLY	1	

NOTE: *Not procurable as separate parts. Order next higher assembly.

5-	101932	FRAME ASSEMBLY, Transfer rail (See figure 1-9 for next higher assembly)	Ref.
- 1	102064	INDICATOR, Tilt	1

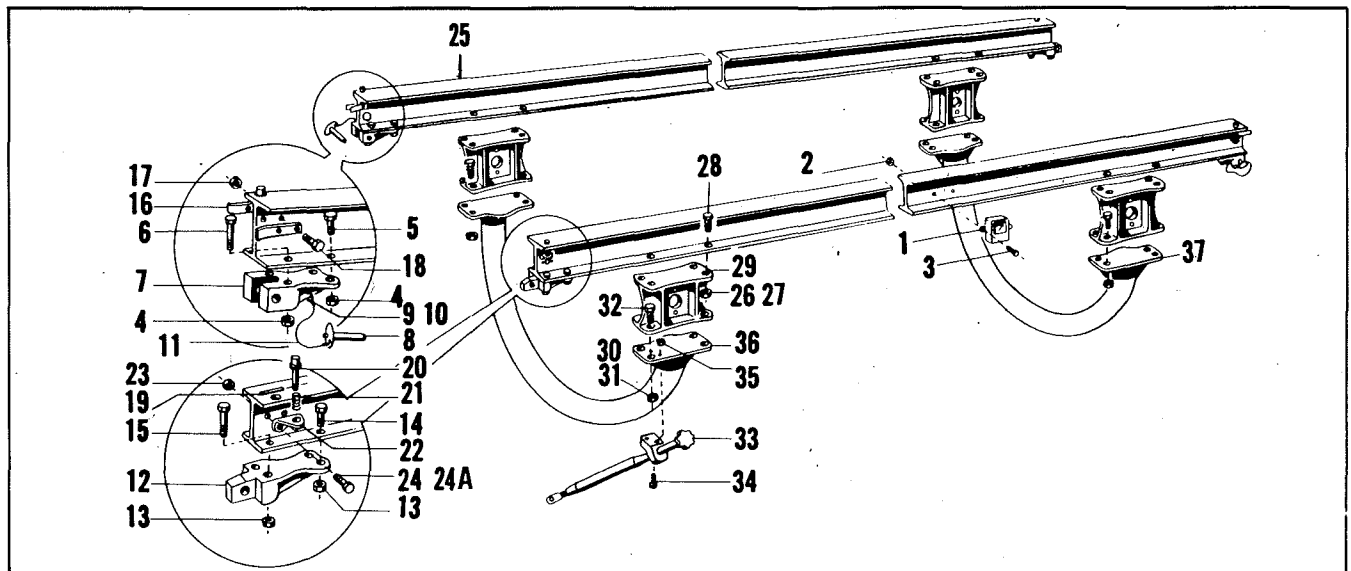


Figure 5. Frame and Transfer Rail Assembly, Part No. 101932

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		
		(ATTACHING PARTS)								
5- 2	MS20364-1032C	.			NUT	.	.	.	2	
- 3	AN520-10R8	.			SCREW	.	.	.	2	
					-----*					
	102334	.			COUPLING ASSEMBLY, Female	.	.	.	2	
					(ATTACHING PARTS)					
- 4	MS20365-624C	.			NUT	.	.	.	8	
- 5	AN6-11A	.			BOLT	.	.	.	4	A,B,C,D,E,F,G,H
	AN6-17A	.			BOLT	.	.	.	4	I
- 6	AN6-20A	.			BOLT	.	.	.	4	A,B,C,D,E,F,G,H
	AN6-26A	.			BOLT	.	.	.	4	I
					-----*					
- 7	102313	.	.		COUPLING	.	.	.	1	
- 8	BL-ST512-2.750	.	.		PIN, Quick release (97978)	.	.	.	1	
	S102408-9	.	.		CABLE ASSEMBLY	.	.	.	1	
- 9	S102408-503	.	.		COVER	.	.	.	2	
-10	12	.	.		SWAGING SLEEVE, Wire rope (04634)	.	.	.	2	
-11	S102408-1350	.	.		CABLE	.	.	.	1	
-12	102314	.	.		COUPLING, Male	.	.	.	2	
					(ATTACHING PARTS)					
-13	MS20365-624C	.			NUT	.	.	.	8	
-14	AN6-11A	.			BOLT	.	.	.	4	A,B,C,D,E,F,G,H
	AN6-17A	.			BOLT	.	.	.	4	I
-15	AN6-20A	.			BOLT	.	.	.	4	A,B,C,D,E,F,G,H
	AN6-26A	.			BOLT	.	.	.	4	I
					-----*					
-16	111537	.			CLIP, Rail guide	.	.	.	4	
					(ATTACHING PARTS)					
-17	MS20364-428C	.			NUT	.	.	.	4	
-18	AN4-7A	.			BOLT	.	.	.	4	
					-----*					
-19	MS171662	.			PIN, Spring	.	.	.	4	
-20	111536	.			PIN, Stop adapter	.	.	.	4	
-21	111535	.			SPRING, Stop adapter	.	.	.	4	
-22	111534	.			BRACKET, Stop adapter	.	.	.	4	
					(ATTACHING PARTS)					
-23	MS20364-528C	.			NUT	.	.	.	8	
-24	AN4-6A	.			BOLT	.	.	.	8	
-24A	AN960-416L	.			WASHER	.	.	.	8	I
					-----*					
-25	101979	.			RAIL, Transfer	.	.	.	2	A,B,C,D,E,F,G,H
	101792	.			RAIL, Transfer	.	.	.	2	I

Section II
Group Assembly Parts List

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		
		(ATTACHING PARTS)								
5-26	MS20365-820C	.	NUT	.	.	.	.	.	16	
-27	AN960-816L	.	WASHER	.	.	.	.	.	32	
-28	AN8-12A	.	BOLT	.	.	.	.	.	16	
		.	— — — *	.	.	.	.	.		
-29	101967	.	BLOCK, Rail spacer	.	.	.	.	.	4	
		(ATTACHING PARTS)								
-30	MS20365-820C	.	NUT	.	.	.	.	.	16	
-31	AN960-816L	.	WASHER	.	.	.	.	.	16	
-32	NAS338CA13	.	BOLT	.	.	.	.	.	16	A, B, C
	NAS338CA13	.	BOLT	.	.	.	.	.	8	D, E, F, G, H
	AN8-14A	.	BOLT	.	.	.	.	.	8	D, E, F, G, H
		.	— — — *	.	.	.	.	.		
-33	101968	.	ADJUSTMENT ASSEMBLY, Rotation (See figure 6)	.	.	.	.	.	1	A, B, C, D
	105160	.	ADJUSTMENT ASSEMBLY, Rotation (See figure 7)	.	.	.	.	.	1	E, F, G, H
		(ATTACHING PARTS)								
-34	AN509-516R13	.	SCREW	.	.	.	.	.	2	A, B, C, D
	105223	.	SCREW, Bracket	.	.	.	.	.	2	E, F, G, H
-35	MS20365-624C	.	NUT	.	.	.	.	.	2	E, F, G, H
		.	— — — *	.	.	.	.	.		
-36	101981-1	.	TUBE ASSEMBLY, Rail support fwd	.	.	.	.	.	1	A, B, C
	104273-1	.	TUBE ASSEMBLY, Rail support fwd	.	.	.	.	.	1	D
	104273-19	.	TUBE ASSEMBLY, Rail support fwd	.	.	.	.	.	1	E, F, G, H
-37	101981-3	.	TUBE ASSEMBLY, Rail support aft	.	.	.	.	.	1	A, B, C
	104273-3	.	TUBE ASSEMBLY, Rail support fwd	.	.	.	.	.	1	D, E, F, G, H

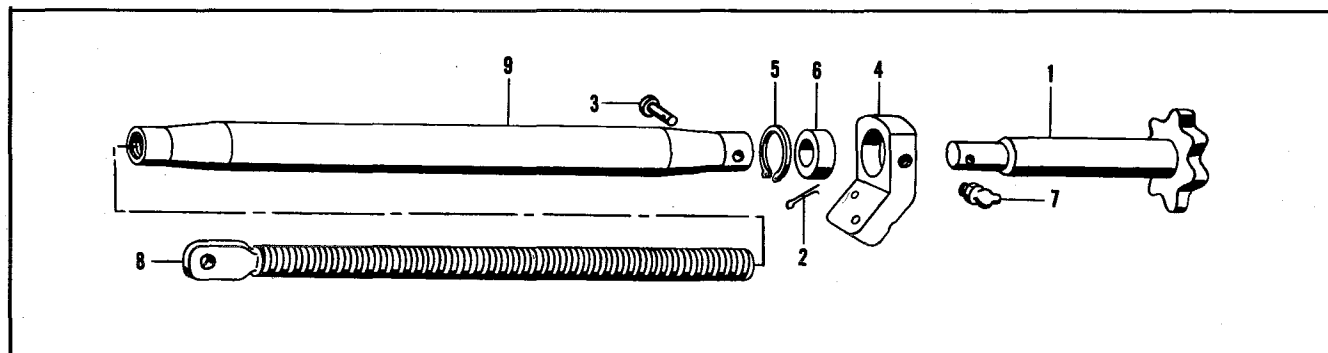


Figure 6. Rotation Adjustment Assembly, Part No. 101968

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		
		NOTE: This Parts Breakdown applies to trailers, Codes A, B, C, D. For trailers, Codes E, F, G, H, see figure 7.								
6-	101968	.	ADJUSTMENT ASSEMBLY, Rotation (See figure 5-33 for next higher assembly)	.	.	.	.	.	Ref.	A, B, C, D
- 1	102029-5	.	KNOB	.	.	.	.	.	1	
		(ATTACHING PARTS)								
- 2	AN380-2-2	.	PIN, Cotter	.	.	.	.	.	1	
- 3	AN944-2-7	.	PIN	.	.	.	.	.	1	
		.	— — — *	.	.	.	.	.		
	101972-1	.	BRACKET ASSEMBLY, Rotation	.	.	.	.	.	1	
- 4	101972-3	.	BRACKET, Rotation	.	.	.	.	.	1	
- 5	5008-112MO	.	RING, Retaining (79136)	.	.	.	.	.	1	
- 6	BSN9003GC	.	BEARING, Plain, self-aligning (81376)	.	.	.	.	.	1	
- 7	MS15001-3	.	FITTING, Lubrication	.	.	.	.	.	1	
- 8	105305	.	SCREW	.	.	.	.	.	1	
- 9	101969	.	TUBE	.	.	.	.	.	1	

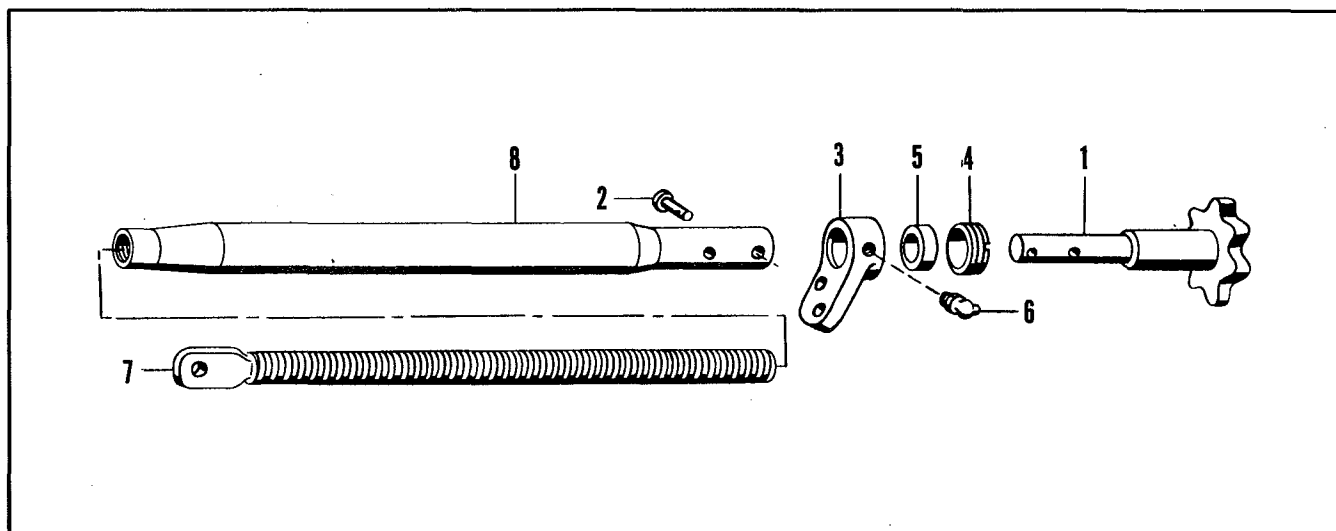


Figure 7. Rotation Adjustment Assembly, Part No. 105160

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		
NOTE: This Parts Breakdown applies to trailers, Codes E, F, G, H. For trailers, Codes A, B, C, D, see Figure 6.										
7-	105160	ADJUSTMENT ASSEMBLY, Rotation (See figure 5-33 for next higher assembly)							Ref.	E, F, G, H
- 1	105222	KNOB							1	
		(ATTACHING PARTS)								
- 2	COMM	PIN, 1/4 x 7/8 Type 3							2	
		— — — * — — —								
	105220	BRACKET ASSEMBLY, Rotation							1	
- 3	105220-3	BRACKET, Rotation							1	
- 4	105221	NUT, Ring							1	
- 5	BSN9003GC	BEARING, Plain, self-aligning (81376)							1	
- 6	MS15001-3	FITTING, Lubrication							1	
- 7	105305	SCREW							1	
- 8	105224	TUBE							1	

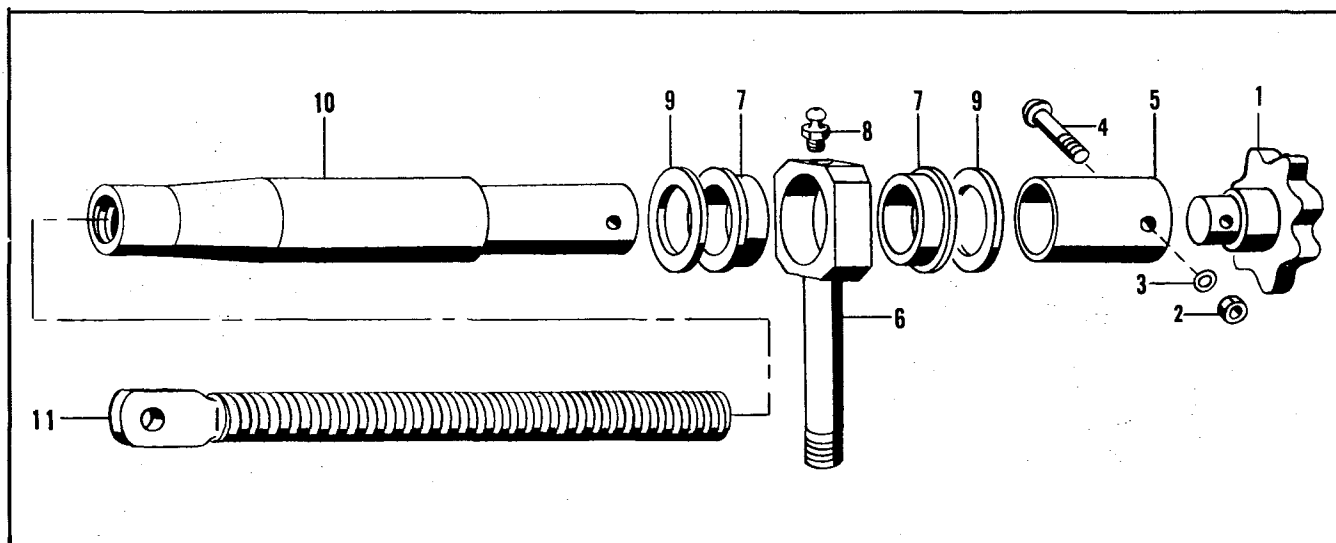


Figure 8. Traverse Adjustment Assembly, Part No. 102088

Section II
Group Assembly Parts List

T.O. 35D3-3-34-4

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		
8-	102088	ADJUSTMENT ASSEMBLY, Traverse (See figure 1-25 for next higher assembly)							Ref.	
- 1	102029-3	KNOB (ATTACHING PARTS)							1	
- 2	MS20364-428C	NUT							1	
- 3	AN960-416L	WASHER							1	
- 4	AN24-22A	BOLT							1	
		* - - - -								
- 5	101208	SPACER							1	
	102107	BEARING ASSEMBLY							1	
- 6	102877	EYEBOLT							1	
- 7	111463	BUSHING							2	
- 8	MS15001-1	FITTING, Lubrication							1	
- 9	111470	WASHER							2	
-10	111452	TUBE							1	
-11	111451	SCREW							1	

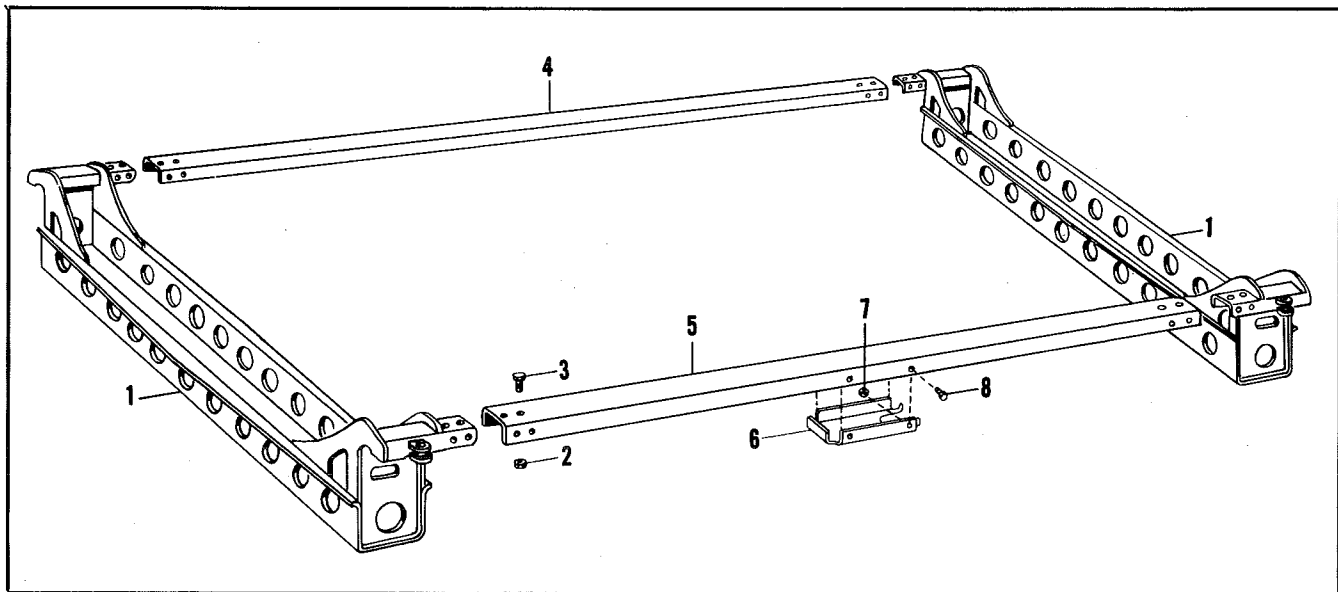


Figure 9. Upper Frame Assembly, Part No. 102063

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		
9-	102063	FRAME ASSEMBLY, Upper (See figure 1-48 for next higher assembly)							Ref.	
- 1	102069-1	CHANNEL ASSEMBLY, Fwd							1	
	102069-3	CHANNEL ASSEMBLY, Aft							1	
		(ATTACHING PARTS)								
- 2	MS20365-428C	NUT							24	
- 3	AN4-7A	BOLT							24	
		* - - - -								
- 4	102062-5	CHANNEL ASSEMBLY, Upper frame side RH							1	
- 5	102062-3	CHANNEL ASSEMBLY, Upper frame side LH							1	A, B, C
	103657	CHANNEL ASSEMBLY, Upper frame side LH							1	D, E, F, G, H
- 6	102102	BRACKET, Handbook stowing							1	
		(ATTACHING PARTS)								
- 7	A6534-10Z1	NUT (78553)							4	
- 8	AN530-10-R8	SCREW							4	

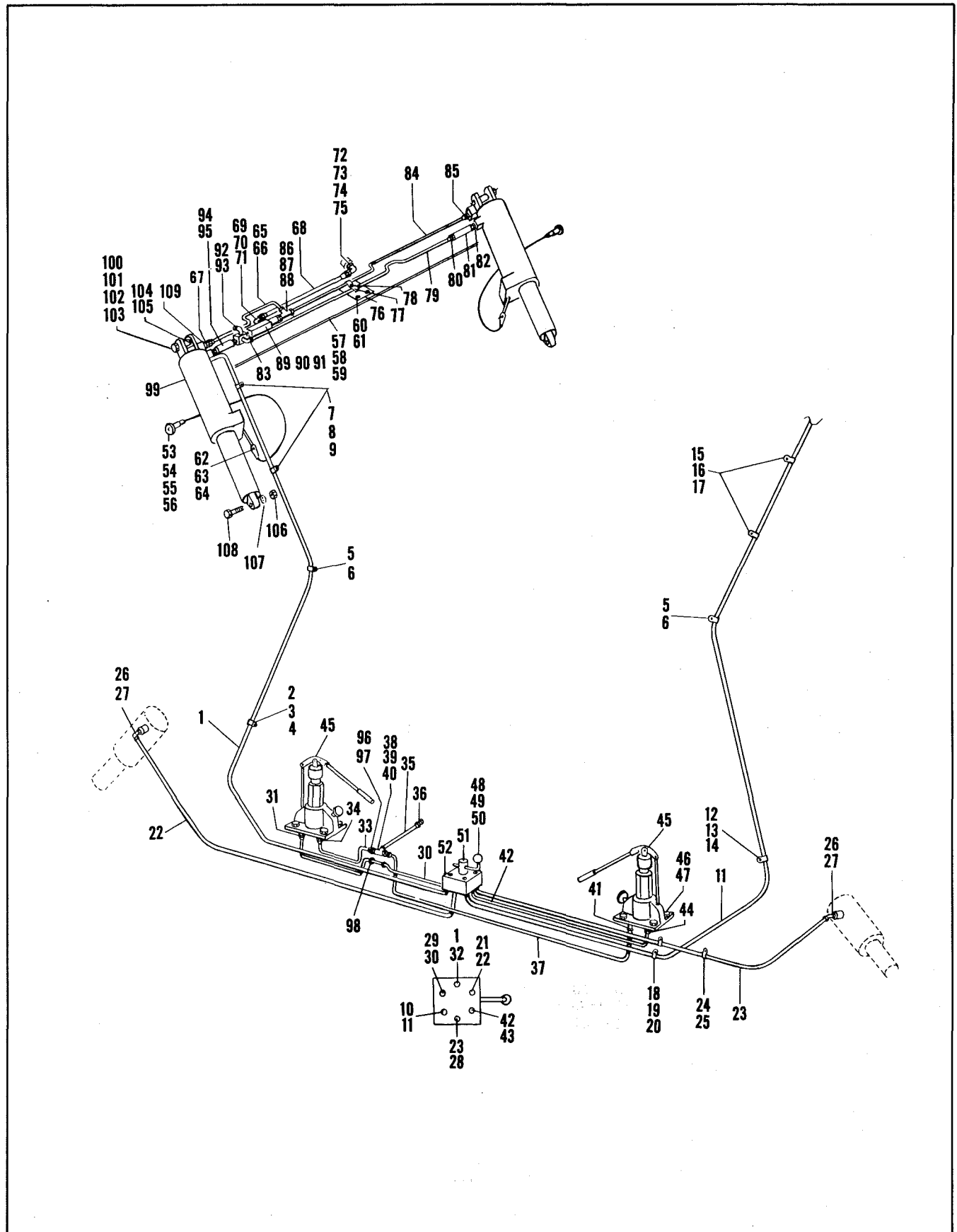


Figure 10. Hydraulic Installation, Part No. 101825

Section II
Group Assembly Parts List

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY	USABLE ON CODE
		1 2 3 4 5 6 7		
NOTE: This Parts Breakdown applies to trailers, Code A. For other Codes, see applicable listing.				
10-	101825	HYDRAULIC INSTALLATION (See figure 1-54 for next higher assembly)	Ref.	A
- 1	1660-4-4-114	HOSE ASSEMBLY, Rubber (70128) (Air Log Spec Cont Dwg 111538-9) (ATTACHING PARTS)	1	
	102839	CLAMP ASSEMBLY, Hose	1	
- 2	102839-9	HOOK	1	
- 3	102839-5	TUBE	1	
- 4	MS20365-440C	NUT	1	
- 5	C3050S12-16	CLAMP, Loop (78553)	1	
- 6	AN530-10-12	SCREW	1	
- 7	C3049S12-16	CLAMP, Loop (78553)	2	
- 8	AN501-10-8	SCREW	2	
- 9	AN935-10L	WASHER	2	
		* — — — —		
-10	101883	ELBOW, Selector valve	1	
-11	1660-4-4-96	HOSE ASSEMBLY, Rubber (70128) (Air Log Spec Cont Dwg 111538-7) (ATTACHING PARTS)	1	
	102839	CLAMP ASSEMBLY, Hose	1	
-12	102839-9	CLAMP	1	
-13	102839-5	TUBE	1	
-14	MS20365-440	NUT	2	
-15	C3050S12-16	CLAMP, Loop (78553)	2	
-16	AN530-10-12	SCREW	1	
-17	NAS548P10-14	SCREW	1	
-18	C3049S12-16	CLAMP, Loop (78553)	2	
-19	AN501-10-8	SCREW	2	
-20	AN935-10L	WASHER	2	
		* — — — —		
-21	AN822-4	ELBOW	1	
-22	1660-4-4-48	HOSE ASSEMBLY, Rubber (70128) (Air Log Spec Cont Dwg 111538-11)	1	
-23	1660-4-4-66	HOSE ASSEMBLY, Rubber (70128) (Air Log Spec Cont Dwg 111538-13) (ATTACHING PARTS)	1	
-24	C3050S12-16	CLAMP, Loop (78553)	2	
-25	AN530-10-12	SCREW	2	
		* — — — —		
-26	AN822-4-4	ELBOW	2	
-27	R33	VALVE, Restrictor wheel cylinder (47296) (Air Log Spec Cont Dwg 102057)	2	
-28	AN822-4	ELBOW	1	
-29	101883	ELBOW, Selector valve	1	
-30	101916	TUBE ASSEMBLY, Fwd pump outlet	1	
-31	101751	FITTING, Pump outlet	1	
-32	AN822-4	ELBOW	1	
-33	101919	TUBE ASSEMBLY, Fwd pump inlet	1	
-34	102363	FITTING, Pump inlet	1	
-35	101918	TUBE ASSEMBLY, Lower reservoir outlet	1	
-36	101938	FITTING ASSEMBLY, Reservoir filter	1	
-37	101920	TUBE ASSEMBLY, Aft pump inlet	1	
-38	AN804-8	TEE	1	
-39	AN924-8	NUT	1	
-40	AN960-12161	WASHER	2	
-41	102363	FITTING, Pump inlet	1	
-42	101917	TUBE ASSEMBLY, Aft pump outlet	1	
-43	101883	ELBOW, Selector valve	1	
-44	101751	FITTING, Pump outlet	1	
-45	DU1-50	PUMP, Reciprocating, hand drive (47296) (Air Log Spec Cont Dwg 111505) (ATTACHING PARTS)	2	
-46	MS20364-524	NUT	6	
-47	AN5-12A	BOLT	6	
		* — — — —		

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY	USABLE ON CODE
		1 2 3 4 5 6 7		
10-	102059	VALVE ASSEMBLY, Selector	1	
	103756	HANDLE ASSEMBLY, Valve selector (ATTACHING PARTS)	1	
-48	MS171528	PIN, Spring -----*	1	
-49	103758	BALL, Handle selector valve	1	
-50	103757	HANDLE, Selector valve	1	
-51	MC232	VALVE, Selector (00155) (Air Log Spec Cont Dwg 102059-3) (ATTACHING PARTS)	1	
-52	COMM	SCREW, Flat hd 1/4-20 -----*	4	
	102083	KNOB ASSEMBLY, Hydraulic ram release	2	
-53	COMM	SCREW, Set 5/16-18UNC-2X.50 lg oval pt hex socket	1	
-54	102083-3	KNOB	1	
-55	101881	GUIDE, Latch release pull cable (ATTACHING PARTS)	2	
-56	NAS51-62	RING, Retainer -----*	2	
-57	102076-1	COVER ASSEMBLY, Hydraulic line support fwd (See figure 15)	1	
	102076-2	COVER ASSEMBLY, Hydraulic line support aft (See figure 15) (ATTACHING PARTS)	1	
-58	AN501-416-7	SCREW	8	
-59	AN960-416	WASHER	8	
-60	AN501-10-8	SCREW	4	
-61	AN935-10L	WASHER	4	
-62	AN380-2-1	PIN, Cotter	4	
-63	AN960-10L	WASHER	4	
-64	AN393-11	PIN -----*	4	
-65	102016-1	TUBE ASSEMBLY, Pilot valve fwd	1	
-66	102016-2	TUBE ASSEMBLY, Pilot valve aft	1	
-67	AN816-4	NIPPLE	2	
-68	AN6270-4-8 3/4	HOSE ASSEMBLY	2	
-69	102810	ELBOW	2	
-70	AN6290-4	GASKET	2	
-71	AN924-4	NUT	2	
-72	101836	FILTER ASSEMBLY, Upper reservoir	2	
-73	AN6290-6	GASKET	2	
-74	AN924-6	NUT	2	
-75	6-4TRTX-S	REDUCER (45681)	2	
-76	102013	BRACKET	2	
-77	C3110A-4-27	CLAMP (78553) (ATTACHING PARTS)	4	
-78	AN501-10-10	SCREW -----*	2	
-79	102018	TUBE ASSEMBLY, Pressure transfer	2	
-80	AN816-4-4	NIPPLE	2	
-81	3027	VALVE, Flow control (00630) (Air Log Spec Cont Dwg 102066)	2	
-82	AN911-2	NIPPLE	2	
-83	AN822-4	ELBOW	2	
-84	102017	TUBE ASSEMBLY, Pilot valve transfer	2	
-85	AN816-4	NIPPLE	2	
-86	AN804-4	TEE	2	
-87	AN6290-4	GASKET	2	
-88	AN924-4	NUT	2	
-89	10-2555-3	VALVE, Pilot check (86768) (Air Log Spec Cont Dwg 102065)	2	
-90	AN816-4-4	NIPPLE	2	
-91	AN6290-4	GASKET	2	
-92	102015	CONNECTOR, Multiple, fluid pressure line	2	
-93	S87704	ELBOW, Selector valve (89412)	2	
-94	AN911-2	NIPPLE	2	
-95	3027	VALVE, Flow control (00630) (Air Log Spec Cont Dwg 102066)	2	
-96	AN911-2	NIPPLE	2	
-97	AN931A4S16	GROMMET	1	
-98	AN931A12S20	GROMMET	2	
-99	WSP-DA128A	RAM, Hydraulic (47296) (Air Log Spec Cont Dwg 101801)	4	

Section II
Group Assembly Parts List

T.O. 35D3-3-34-4

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY	USABLE ON CODE
		1 2 3 4 5 6 7		
		(ATTACHING PARTS)		
10-100	AN320-4-6	PIN, Cotter	8	
-101	AN320-14	NUT	4	
-102	AN960-1416L	WASHER	4	
-103	102014	PIN, Lift cylinder upper clevis	4	
-104	AN6227-13	PACKING, "O" ring	8	
-105	MS28782-13	RING, Backup	8	
-106	AN320-12	NUT	4	
-107	AN960-1216L	WASHER	4	
-108	AN32-58	BOLT	4	
		— * —		
-109	566-3	PLUG, Vent (91561)	2	

NOTE: This Parts Breakdown applies to trailers, Code B. For other Codes, see applicable listing.

11-	103350	HYDRAULIC INSTALLATION (See figure 1-54 for next higher assembly)	Ref.	B
- 1	1660-4-4-114	HOSE ASSEMBLY, Rubber (70128) (Air Log Spec Cont Dwg 111538-9)	1	
		(ATTACHING PARTS)		
	102839	CLAMP ASSEMBLY, Hose	1	
- 2	102839-9	CLAMP	1	
- 3	102839-5	TUBE	1	
- 4	MS20365-440	NUT	1	
- 5	C3050S12-16	CLAMP, Loop (78553)	1	
- 6	AN530-10-12	SCREW	1	
- 7	C3049S12-16	CLAMP, Loop (78553)	2	
- 8	AN501-10-8	SCREW	2	
- 9	AN935-10L	WASHER	2	
		— * —		
-10	101883	ELBOW, Selector valve	1	
-11	1660-4-4-96	HOSE ASSEMBLY, Rubber (70128) (Air Log Spec Cont Dwg 111538-7)	1	
		(ATTACHING PARTS)		
	102839	CLAMP ASSEMBLY, Hose	1	
-12	102839-9	CLAMP	1	
-13	102839-5	TUBE	1	
-14	MS20365-440C	NUT	1	
-15	C3050S12-16	CLAMP, Loop (78553)	2	
-16	AN530-10-12	SCREW	1	
-17	NAS548P10-12	SCREW	1	
-18	C3049S12-16	CLAMP, Loop (78553)	2	
-19	AN501-10-8	SCREW	2	
-20	AN935-10L	WASHER	2	
		— * —		
-21	AN822-4	ELBOW	1	
-22	1660-4-4-66	HOSE ASSEMBLY, Rubber (70128) (Air Log Spec Cont Dwg 111538-13)	1	
-23	1660-4-4-48	HOSE ASSEMBLY, Rubber (70128) (Air Log Spec Cont Dwg 111538-11)	1	
		(ATTACHING PARTS)		
-24	C3050S12-16	CLAMP, Loop (78553)	2	
-25	AN530-10-12	SCREW	2	
		— * —		
-26	AN822-4-4	ELBOW	2	
-27	R33	VALVE, Restrictor wheel cylinder (47296) (Air Log Spec Cont Dwg 102057)	2	
-28	AN822-4	ELBOW	1	
-29	101883	ELBOW, Selector valve	1	
-30	101916	TUBE ASSEMBLY, Fwd pump outlet	1	
-31	101751	FITTING, Pump outlet	1	
-32	AN822-4	ELBOW	1	
-33	101919	TUBE ASSEMBLY, Fwd pump inlet	1	
-34	102363	FITTING, Pump inlet	1	
-35	101918	TUBE ASSEMBLY, Lower reservoir outlet	1	
-36	101938	FITTING ASSEMBLY, Reservoir filter	1	

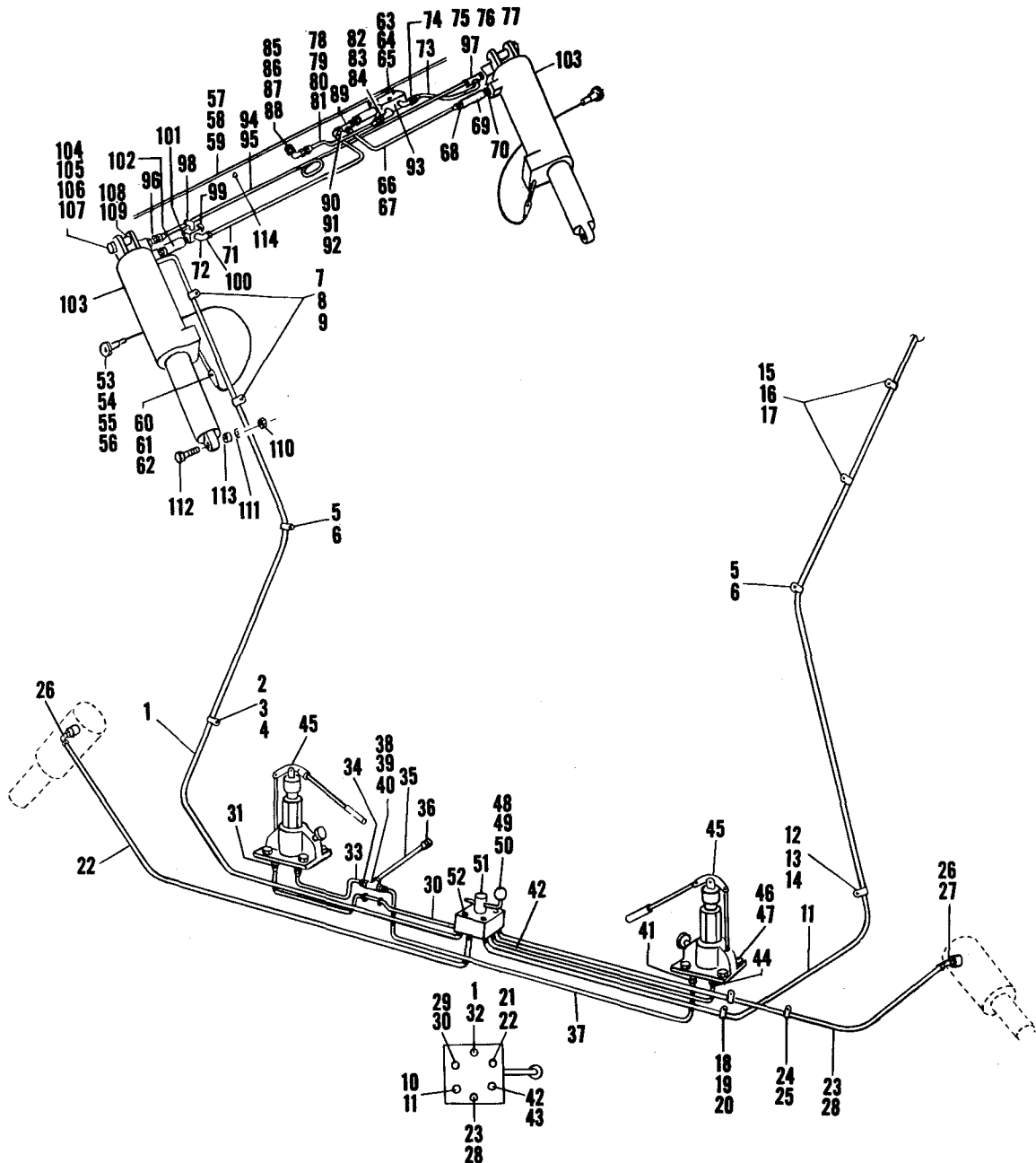


Figure 11. Hydraulic Installation, Part No. 103350

Section II
Group Assembly Parts List

T.O. 35D3-3-34-4

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY	USABLE ON CODE
		1 2 3 4 5 6 7		
11-37	101920	TUBE ASSEMBLY, Aft pump inlet	1	
-38	AN804-8	TEE	1	
-39	AN924-8	NUT	1	
-40	AN960-1216	WASHER	2	
-41	102363	FITTING, Pump inlet	1	
-42	101917	TUBE ASSEMBLY, Aft pump outlet	1	
-43	101883	ELBOW, Selector valve	1	
-44	101751	FITTING, Pump outlet	1	
-45	DU1-562	PUMP, Reciprocating, hand driven (47296) (Air Log Spec Cont Dwg 111505) (ATTACHING PARTS)	2	
-46	MS20364-524	NUT	6	
-47	AN5-12A	BOLT	6	
		----- *		
	102059	VALVE ASSEMBLY, Selector	1	
	103756	HANDLE ASSEMBLY, Valve selector (ATTACHING PARTS)	1	
-48	MS171528	PIN, Spring	1	
		----- *		
-49	103758	BALL, Handle selector valve	1	
-50	103757	HANDLE, Selector valve	1	
-51	MC232	VALVE, Selector (00155) (Air Log Spec Cont Dwg 102059-3) (ATTACHING PARTS)	1	
-52	COMM	SCREW, Flat hd 1/4-20	4	
		----- *		
	102083	KNOB ASSEMBLY, Lift cylinder latch	2	
-53	COMM	SCREW, Set 5/16-18UNC-2X.50 lg oval pt hex socket	1	
-54	102083-3	KNOB	1	
-55	101881	GUIDE, Latch release cable (ATTACHING PARTS)	2	
-56	NAS51-62	RING, Retainer	2	
		----- *		
-57	102076-1	COVER ASSEMBLY, Hydraulic line support fwd (See figure 15)	1	
	102076-2	COVER ASSEMBLY, Hydraulic line support aft (See figure 15) (ATTACHING PARTS)	1	
-58	AN501-416-7	SCREW	8	
-59	AN960-416	WASHER	8	
-60	AN380-2-1	PIN, Cotter	4	
-61	AN960-10L	WASHER	4	
-62	AN393-11	PIN	4	
-63	MS20364-428C	NUT	6	
-64	AN4-16A	BOLT	6	
-65	103075	SPACER, Sleeve	6	
		----- *		
-66	103044-1	TUBE ASSEMBLY, Pilot valve LH	1	
-67	103044-2	TUBE ASSEMBLY, Pilot valve RH	1	
-68	AN816-4-4	NIPPLE	2	
-69	3027	VALVE, Flow control (00630) (Air Log Spec Cont Dwg 102066)	2	
-70	AN911-2	NIPPLE	2	
-71	103072	TUBE ASSEMBLY, Cylinder	2	
-72	AN822-4-4	ELBOW	2	
-73	103061	TUBE ASSEMBLY, Pilot check inlet	2	
-74	AN894-6-4	REDUCER	2	
-75	AN833-6	ELBOW	2	
-76	AN6289-6	NUT	2	
-77	AN6290-6	GASKET	2	
-78	AN6270-4-4 3/4	HOSE ASSEMBLY	2	
-79	AN924-4	NUT	2	
-80	AN6290-4	GASKET	2	
-81	AN894-6-4	REDUCER	2	
-82	AN833-6	ELBOW	2	
-83	AN6289-6	NUT	2	
-84	AN6290-6	GASKET	2	
-85	101836	FILTER ASSEMBLY, Upper reservoir	2	
-86	AN6290-6	GASKET	2	
-87	AN924-6	NUT	2	
-88	AN894-6-4	REDUCER	2	
-89	AN804-4	TEE	2	

Section II
Group Assembly Parts List

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY	USABLE ON CODE
		1 2 3 4 5 6 7		
11- 90	AN6289-4	NUT	2	
- 91	AN6290-4	GASKET	2	
- 92	AN893-2	BUSHING	2	
- 93	27200	VALVE, Pilot check (82106) (Air Log Spec Cont Dwg 103048)	2	
- 94	103074-1	TUBE ASSEMBLY, Back LH	1	
- 95	103074-2	TUBE ASSEMBLY, Back RH	1	
- 96	AN816-4	NIPPLE	2	
- 97	AN826-4	TEE	2	
- 98	102015	CONNECTOR, Multiple, fluid pressure line	2	
- 99	AN932-3	PLUG	2	
-100	S87704	ELBOW, Selector valve (89412)	2	
-101	AN911-2	NIPPLE	4	
-102	3027	VALVE, Flow control (00630) (Air Log Spec Cont Dwg 102066)	2	
-103	WSP-DA128A	RAM, Hydraulic (47296) (Air Log Spec Cont Dwg 101801) (ATTACHING PARTS)	4	
-104	AN380-4-6	PIN, Cotter	8	
-105	AN320-14	NUT	4	
-106	AN960-1416L	WASHER	4	
-107	102014	PIN, Lift cylinder clevis	4	
-108	AN6227-13	PACKING, "O" ring	8	
-109	MS28782-13	RING, Backup	8	
-110	AN320-12	NUT	4	
-111	AN960-1216L	WASHER	4	
-112	AN32-58	BOLT	4	
-113	NAS74A12-112P	BUSHING	4	
		-----*		
-114	566-3	PLUG, Vent (91561)	4	

NOTE: This Parts Breakdown applies to trailers, Codes C and D. For other Codes see applicable listing.

12-	103658	HYDRAULIC INSTALLATION (See figure 1-54 for next higher assembly)	Ref.	C, D
- 1	1660-4-4-114	HOSE ASSEMBLY, Rubber (70128) (Air Log Spec Cont Dwg 111538-9) (ATTACHING PARTS)	1	
	102839	CLAMP ASSEMBLY, Hose	1	
- 2	102839-9	CLAMP	2	
- 3	102839-5	TUBE	1	
- 4	MS20365-440C	NUT	1	
- 5	C3050S12-16	CLAMP, Loop (78553)	1	
- 6	AN530-10-12	SCREW	1	
- 7	C3049S12-16	CLAMP, Loop (78553)	2	
- 8	AN501-10-8	SCREW	2	
- 9	AN935-10L	WASHER	2	
		-----*		
-10	101883	ELBOW, Selector valve	1	
-11	1660-4-4-96	HOSE ASSEMBLY, Rubber (70128) (Air Log Spec Cont Dwg 111538-7) (ATTACHING PARTS)	1	
	102839	CLAMP ASSEMBLY, Hose	1	
-12	102839-9	CLAMP	1	
-13	102839-5	TUBE	1	
-14	MS20365-440	NUT	1	
-15	C3050S12-16	CLAMP, Loop (78553)	2	
-16	AN530-10-12	SCREW	1	
-17	NAS548P10-14	SCREW	1	
-18	C3049S12-16	CLAMP, Loop (78553)	2	
-19	AN501-10-8	SCREW	2	
-20	AN935-10L	WASHER	2	
		-----*		
-21	AN822-4	ELBOW	1	
-22	1660-4-4-66	HOSE ASSEMBLY, Rubber (70128) (Air Log Spec Cont Dwg 111538-13)	1	
-23	1660-4-4-48	HOSE ASSEMBLY, Rubber (70128) (Air Log Spec Cont Dwg 111538-11) (ATTACHING PARTS)	1	

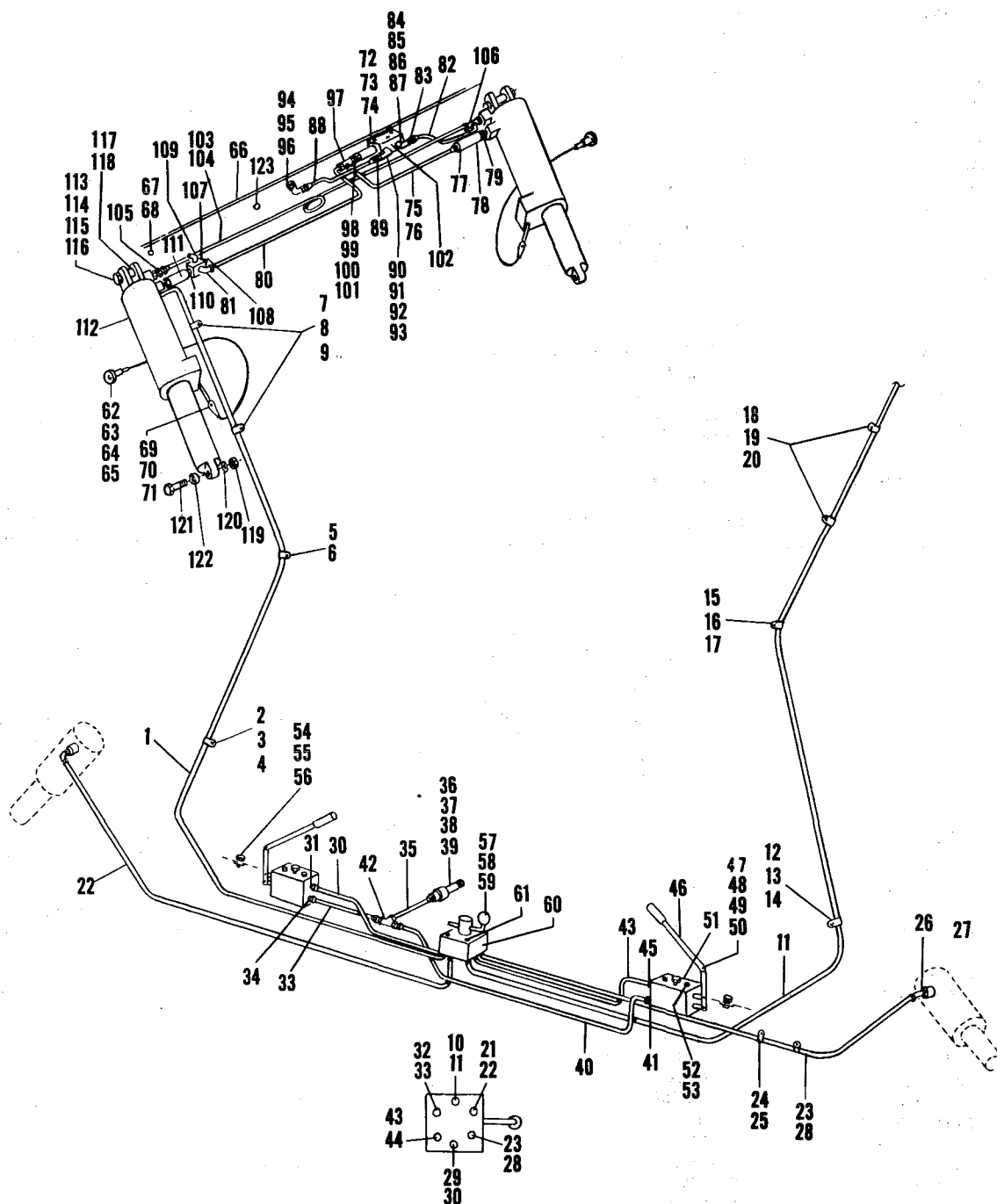


Figure 12. Hydraulic Installation, Part No. 103658

Section II
Group Assembly Parts List

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY	USABLE ON CODE
		1 2 3 4 5 6 7		
12-24	C3050S12-16	CLAMP, Loop (78553)	1	
-25	AN530-10-12	SCREW	1	
		— * —		
-26	AN822-4-4	ELBOW	2	
-27	R33	VALVE, Restrictor wheel cylinder (47296) (Air Log Spec Cont Dwg 102057)	2	
-28	AN822-4	ELBOW	1	
-29	101883	ELBOW, Selector valve	1	
-30	103337	TUBE ASSEMBLY, Fwd pump outlet	1	
-31	AN816-4-4	NIPPLE	1	
-32	AN822-4	ELBOW	1	
-33	103226	TUBE ASSEMBLY, Fwd pump outlet	1	
-34	AN816-7	NIPPLE	1	
-35	103336	TUBE ASSEMBLY, Reservoir outlet	1	
-36	50824	FILTER, Fluid, pressure (81321)	1	
-37	AN6290-8	GASKET	2	
-38	AN815-8	UNION	1	
-39	AN816-8	NIPPLE	1	
-40	103227	TUBE ASSEMBLY, Aft pump inlet	1	
-41	AN816-7	NIPPLE	1	
-42	AN824-8	TEE	1	
-43	103338	TUBE ASSEMBLY, Aft pump inlet	1	
-44	101883	ELBOW, Selector valve	1	
-45	AN816-4-4	NIPPLE	1	
-46	103343-7	HANDLE, Pump LH	1	
	103343-8	HANDLE, Pump RH (ATTACHING PARTS)	1	
-47	MS20364-820	NUT, Lock	1	
-48	COMM	BOLT, 1/2-20 x 1-3/8 lg hex hd cad pl	1	
-49	3001C25	BOLT (03974)	1	
-50	AN935-8	WASHER, Lock	1	
		— * —		
-51	3001C	PUMP, Reciprocating, hand driven (03974) (Air Log Spec Cont Dwg 103343-5)	2	
	*3001E	PUMP, Reciprocating, hand driven (03974) (Air Log Spec Cont Dwg 103343-5) — 105167-5	2	
		(ATTACHING PARTS)		
-52	AN510-516R14	SCREW	4	
-53	AN936C516	WASHER	4	
		— * —		
-54	C30	STOP (03974) (ATTACHING PARTS)	2	
-55	MS20364-428C	NUT	4	
-56	AN501-416-20	SCREW	4	
		— * —		
	102059	VALVE ASSEMBLY, Selector	1	
	103756	HANDLE ASSEMBLY, Selector valve (ATTACHING PARTS)	1	
-57	MS171528	PIN, Spring	1	
		— * —		
-58	103758	BALL, Handle selector valve	1	
-59	103757	HANDLE, Selector valve	1	
-60	MC232	VALVE, Selector (00155) (Air Log Spec Cont Dwg 102059-3) (ATTACHING PARTS)	1	
-61	AN505-416R12	SCREW	4	
		— * —		
	102083	KNOB ASSEMBLY	2	
-62	COMM	SCREW, Set 5/16-18UNC-2X.50 lg oval pt hex socket	1	
-63	102083-3	KNOB	1	
-64	101881	GUIDE, Latch release pull cable (ATTACHING PARTS)	2	
-65	NAS51-62	RING, Retaining	2	
		— * —		
-66	102076-1	COVER ASSEMBLY, Hydraulic line support fwd (See figure 15)	1	
	102076-2	COVER ASSEMBLY, Hydraulic line support aft (See figure 15) (ATTACHING PARTS)	1	
-67	AN501-416-7	SCREW	8	
-68	AN960-416	WASHER	8	
-69	AN381-2-8	PIN, Cotter	4	
-70	AN960-10L	WASHER	4	

Section II
Group Assembly Parts List

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY	USABLE ON CODE
		1 2 3 4 5 6 7		
12- 71	AN393-11	PIN	4	
- 72	MS20364-428	NUT	6	
- 73	AN4-16A	BOLT	6	
- 74	103075	SPACER, Sleeve	6	
		-----*		
- 75	103044-1	TUBE ASSEMBLY, Cylinder LH	1	
- 76	103044-2	TUBE ASSEMBLY, Cylinder RH	1	
- 77	AN816-4-4	NIPPLE	2	
- 78	3027	VALVE, Flow Control (00630) (Air Log Spec Cont Dwg 102066)	2	
- 79	AN911-2	NIPPLE	2	
- 80	103072	TUBE ASSEMBLY, Cylinder	2	
- 81	AN822-4	ELBOW	2	
- 82	103061	TUBE ASSEMBLY, Pilot check	2	
- 83	AN894-6-4	REDUCER	2	
- 84	AN833-6	ELBOW	2	
- 85	AN6289-6	NUT	2	
- 86	AN6290-6	GASKET	2	
- 87	AN6291-6	RING	2	
- 88	AN6270-4-8 3/4	HOSE ASSEMBLY	2	
- 89	AN894-6-4	REDUCER	4	
- 90	AN833-6	ELBOW	2	
- 91	AN6289-6	NUT	2	
- 92	AN6290-6	GASKET	2	
- 93	AN6291-6	RING	2	
- 94	101836	FILTER, Upper reservoir	2	
- 95	AN6290-6	ELBOW	2	
- 96	AN924-6	NUT	2	
- 97	AN804-4	TEE	2	
- 98	AN6289-4	NUT	2	
- 99	AN6290-4	GASKET	2	
-100	AN6291-4	RING	2	
-101	AN893-2	BUSHING	2	
-102	27200	VALVE, Pilot check (82106) (Air Log Spec Cont Dwg 103048)	2	
-103	103074-1	TUBE ASSEMBLY, LH	1	
-104	103074-2	TUBE ASSEMBLY, RH	1	
-105	AN816-4	NIPPLE	2	
-106	AN826-4	TEE	2	
-107	102015	CONNECTOR, Multiple, fluid pressure line	2	
-108	AN932-3	PLUG	2	
-109	S87704	ELBOW, Selector valve (89412)	2	
-110	AN911-2	NIPPLE	4	
-111	3027	VALVE, Flow control (00630) (Air Log Spec Cont Dwg 102066)	2	
-112	WSP-DA128A	RAM, Hydraulic (47296) (Air Log Spec Cont Dwg 101801)	4	
		(ATTACHING PARTS)		
-113	AN381-4-20	PIN, Cotter	8	
-114	AN320-14	NUT	4	
-115	AN960-1416L	WASHER	4	
-116	102014	PIN, Lift cylinder upper clevis	4	
-117	MS28782-13	RING, Backup	8	
-118	AN6227-13	PACKING, "O" ring	8	
-119	AN320-12	NUT	4	
-120	AN960-1216	WASHER	4	
-121	AN32-58	BOLT	4	
-122	NAS74A12-112P	BUSHING	4	
		-----*		
-123	566-3	PLUG, Vent (91561)	2	

*Interchangeable with handpump Part No. 3001C if additional mounting hole is drilled. For modification instructions see T.O. 35D3-3-34-1.

NOTE: This Parts Breakdown applies to trailers, Codes E, F, G. For other Codes see applicable listing.

13-	104950	HYDRAULIC INSTALLATION (See figure 1-54 for next higher assembly)	Ref.	E, F
	104950-501	HYDRAULIC INSTALLATION (See figure 1-54 for next higher assembly)	Ref.	G
1	1660-4-4-66	HOSE ASSEMBLY, Rubber (70128) (Air Log Spec Cont Dwg 111538-13)	1	

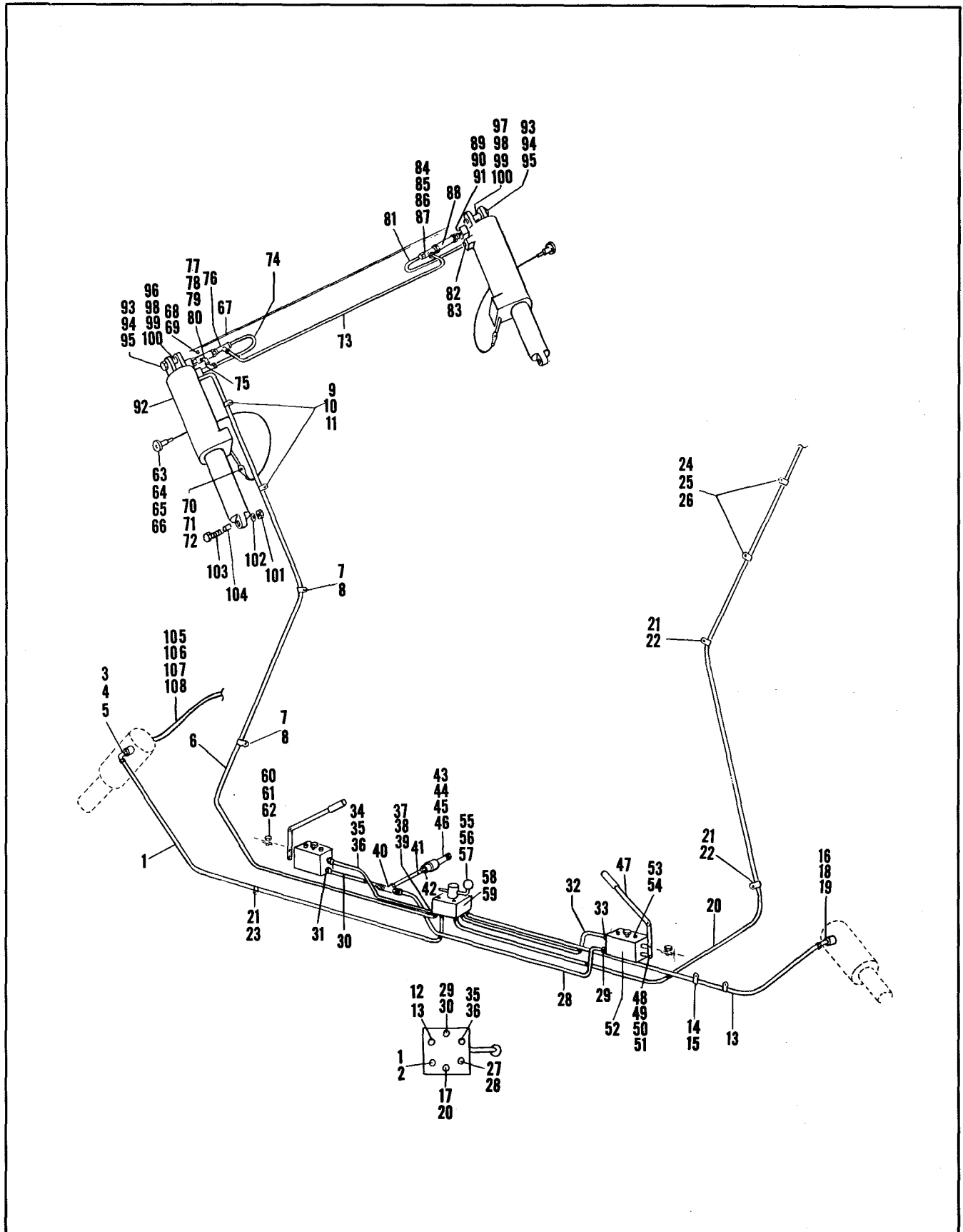


Figure 13. Hydraulic Installation, Part Nos. 104950 and 104950-501

Section II
Group Assembly Parts List

T.O. 35D3-3-34-4

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY	USABLE ON CODE
		1 2 3 4 5 6 7		
13- 2	AN823-4	ELBOW	1	
- 3	AN822-4-4	ELBOW	1	
- 4	PTR-S	BUSHING, 3/8 x 1/4 (45681)	1	
- 5	AN913-3S	PLUG	1	
- 6	1660-4-4-114	HOSE ASSEMBLY, Rubber (70128) (Air Log Spec Cont Dwg 111538-9) (ATTACHING PARTS)	1	
- 7	C3050S12-16	CLAMP, Loop (78553)	2	
- 8	AN530-10R12	SCREW	2	
9	C3049S12-16	CLAMP, Loop (78553)	2	
-10	AN501A10-8	SCREW	2	
-11	AN935-10L	WASHER	2	
		----- *		
-12	AN823-4	ELBOW	1	
-13	1660-4-4-48	HOSE ASSEMBLY, Rubber (70128) (Air Log Spec Cont Dwg 111538-11) (ATTACHING PARTS)	1	
-14	C3050S12-16	CLAMP, Loop (78553)	1	
15	AN530-10R12	SCREW	1	
		----- *		
-16	AN816-4	NIPPLE	1	
-17	AN822-4-4	ELBOW	1	
-18	PTR-S	BUSHING, 3/8 x 1/4 (45681)	1	
-19	AN913-3S	PLUG	1	
-20	1660-4-4-96	HOSE ASSEMBLY, Rubber (70128) (Air Log Spec Cont Dwg 111538-7) (ATTACHING PARTS)	1	
-21	C3050S12-16	CLAMP, Loop (78553)	3	
-22	NAS548P10-14	SCREW	1	
-23	AN530-10R12	SCREW	2	
-24	C3049S12-16	CLAMP, Loop (78553)	2	
-25	AN501A10-8	SCREW	2	
-26	AN935-10L	WASHER	2	
		----- *		
-27	AN816-4	NIPPLE	1	
-28	103485	TUBE ASSEMBLY	1	
-29	8-4VTX-S	ELBOW (45681)	1	
-30	103483	TUBE ASSEMBLY	1	
-31	AN816-7	NIPPLE	1	
-32	103486	TUBE ASSEMBLY	1	
-33	AN816-4-4	NIPPLE	2	
-34	3029	VALVE, Relief (00630) (Air Log Spec Cont Dwg 105262)	1	
-35	104246	ELBOW	1	
-36	103484	TUBE ASSEMBLY	1	
-37	3029	VALVE, Relief (00630) (Air Log Spec Cont Dwg 105262)	1	
-38	AN816-4-4	NIPPLE	2	
-39	104246	ELBOW	1	
-40	AN824-8	TEE	1	
-41	104946	TUBE ASSEMBLY	1	
-42	AN815-8	UNION	1	
-43	AN6290-8	GASKET	1	
-44	50824	FILTER, Fluid pressure (81321)	1	
-45	AN6290-8	GASKET	1	
-46	AN816-8	NIPPLE	1	
-47	103343-7	HANDLE, Pump LH	1	
	103343-8	HANDLE, Pump RH	1	
		(ATTACHING PARTS)		
-48	MS20364-820	NUT, Lock	2	
-49	COMM	BOLT, 1/2-20 x 1-3/8 lg hd cad pl	2	
-50	3001C25	BOLT (03974)	2	
-51	AN935-8	WASHER, Lock	2	
		----- *		
-52	3001E	PUMP, Reciprocating, hand driven (03974) (Air Log Spec Cont Dwg 105167-5) (ATTACHING PARTS)	2	
-53	AN510-516R14	SCREW	8	

Section II
Group Assembly Parts List

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY	USABLE ON CODE
		1 2 3 4 5 6 7		
13- 54	AN936C516	WASHER	8	
		----- *		
	103756	HANDLE ASSEMBLY, Valve selector	1	
		(ATTACHING PARTS)		
- 55	MS171528	PIN, Spring	1	
		----- *		
- 56	103758	BALL, Handle selector valve	1	
- 57	103757	HANDLE, Selector valve	1	
- 58	* 3620R3HQ2	VALVE ASSEMBLY, Selector (89326) (Air Log Spec	1	
		Cont Dwg 103466)		
		VALVE ASSEMBLY, Selector (86768) (Air Log Spec	1	
		Cont Dwg 103466)		
		(ATTACHING PARTS)		
- 59	AN509-416R14	SCREW	4	
		----- *		
- 60	C30	STOP (03974)	2	
		(ATTACHING PARTS)		
- 61	AN501A416-20	SCREW	4	
- 62	MS20364-428	NUT	4	
		----- *		
	102083	KNOB ASSEMBLY	2	
- 63	COMM	SCREW, Set 5/16-18UNC-2 x .50 lg oval pt hex socket	1	
- 64	102083-3	KNOB	1	
- 65	101881	GUIDE	2	
		(ATTACHING PARTS)		
- 66	NAS51-62	RING, Retaining	2	
		----- *		
- 67	104942-1	COVER ASSEMBLY, Hydraulic lines support fwd (See figure 15)	1	
	104942-2	COVER ASSEMBLY, Hydraulic lines support aft (See figure 15)	1	
		(ATTACHING PARTS)		
- 68	AN501A416-7	SCREW	8	
- 69	AN960-416	WASHER	8	
- 70	AN831-2-8	PIN, Cotter	4	
- 71	AN960-10L	WASHER	4	
- 72	AN393-11	PIN	4	
		----- *		
- 73	104947	TUBE ASSEMBLY	2	
- 74	104948-1	TUBE ASSEMBLY	2	
- 75	AN783-4	TEE	2	
- 76	AN804-4	TEE	2	
- 77	AN837-4	ELBOW	2	
- 78	AN6289-4	NUT	6	
- 79	AN6290-4	GASKET	6	
- 80	AN6291-4	RING	6	
- 81	104948-3	TUBE ASSEMBLY	2	
- 82	AN815-4	UNION	2	
- 83	AN6290-4	GASKET	2	
- 84	AN804-4	TEE	1	
- 85	AN6290-4	GASKET	2	
- 86	AN6291-4	RING	2	
- 87	AN6289-4	NUT	2	
- 88	A80292	VALVE (91130) (Air Log Spec Cont Dwg 104952)	4	
- 89	AN815-4	UNION	4	
- 90	AN6290-4	GASKET	8	
- 91	103406	PLUG, Machine thread	4	
- 92	WSP-DA148	RAM, Hydraulic (47296) (Air Log Spec Cont Dwg 104944)	4	
		(ATTACHING PARTS)		
- 93	AN381-4-20	PIN, Cotter	4	
- 94	AN320-14	NUT	4	
- 95	AN960-1416L	WASHER	8	
- 96	104949-1	PIN	2	
- 97	104949-2	PIN	2	
- 98	AN6227-13	PACKING, "O" ring	8	
- 99	MS28782-13	RING, Backup	8	
-100	AN381-4-20	PIN, Cotter	4	
-101	AN320-12	NUT	4	
-102	AN960-1216L	WASHER	4	
-103	AN32-58	BOLT	4	

Section II
Group Assembly Parts List

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY	USABLE ON CODE
		1 2 3 4 5 6 7		
13-104	NAS4A12-112P	BUSHING	4	
		— * — — —		
-105	1660-4-4-54	HOSE ASSEMBLY, Rubber (70128) (Air Log Spec Cont Dwg 111538-33) (ATTACHING PARTS)	2	G
-106	1725	CLAMP, Loop (94581)	5	G
		— * — — —		
107	AN822-4-4	ELBOW	4	G
-108	PTR-S	BUSHING, 3/8 x 1/4 (45681)	4	G

*Alternate parts

NOTE: This Parts Breakdown applies to trailers, Code H. For other Codes, see applicable listing.

14-	106541-1	HYDRAULIC INSTALLATION (Modified from 104950)	Ref.	H
		(See figure 1-54 for next higher assembly)		
- 1	1660-4-4-66	HOSE ASSEMBLY, Rubber (70128) (Air Log Spec	1	
		Cont Dwg 111538-13)		
- 2	AN823-4	ELBOW	1	
- 3	AN822-4-4	ELBOW	1	
- 4	PTR-S	BUSHING, 3/8 x 1/4 (45681)	1	
- 5	AN913 3S	PLUG	1	
- 6	1660-4-4-114	HOSE ASSEMBLY, Rubber (70128) (Air Log Spec	1	
		Cont Dwg 111538-9) (ATTACHING PARTS)		
- 7	C3050S12-16	CLAMP, Loop (78553)	2	
- 8	AN530-10R12	SCREW	2	
- 9	C3049S12-16	CLAMP, Loop (78553)	2	
-10	AN501A10-8	SCREW	2	
-11	AN935-10L	WASHER	2	
		— * — — —		
-12	AN823-4	ELBOW	1	
-13	1660-4-4-48	HOSE ASSEMBLY, Rubber (70128) (Air Log Spec	1	
		Cont Dwg 111538-11) (ATTACHING PARTS)		
-14	C3050S12-16	CLAMP, Loop (78553)	1	
-15	AN530-10R12	SCREW	1	
		— * — — —		
-16	AN816-4	NIPPLE	1	
-17	AN822-4-4	ELBOW	1	
-18	PTR-S	BUSHING, 3/8 x 1/4 (45681)	1	
19	AN913-3S	PLUG	1	
20	1660-4-4-96	HOSE ASSEMBLY, Rubber (70128) (Air Log Spec	1	
		Cont Dwg 111538-7) (ATTACHING PARTS)		
-21	C3050S12-16	CLAMP, Loop (78553)	3	
-22	NAS548P10-14	SCREW	1	
-23	AN530-10R12	SCREW	2	
-24	C3049S12-16	CLAMP, Loop (78553)	2	
-25	AN501A10-8	SCREW	2	
-26	AN935-10L	WASHER	2	
		— * — — —		
-27	AN816-4	NIPPLE	1	
-28	103485	TUBE ASSEMBLY	1	
-29	8-4VTX-S	ELBOW (45681)	1	
-30	103483	TUBE ASSEMBLY	1	
-31	AN816-7	NIPPLE	1	
-32	106554	TUBE ASSEMBLY	1	
-33	1/4 771-FS	TEE (30327)	1	
-34	708-FS	CAP (30327)	1	
-35	S106020	TUBE ASSEMBLY	1	
-36	1/4 771-FS	TEE (30327)	1	
-37	3029	VALVE, Relief (00630) (Air Logistics Spec Cont 105262)	1	
38	104246	ELBOW	1	
-39	106553	TUBE ASSEMBLY	1	
-40	1/4 771-FS	TEE (30327)	1	

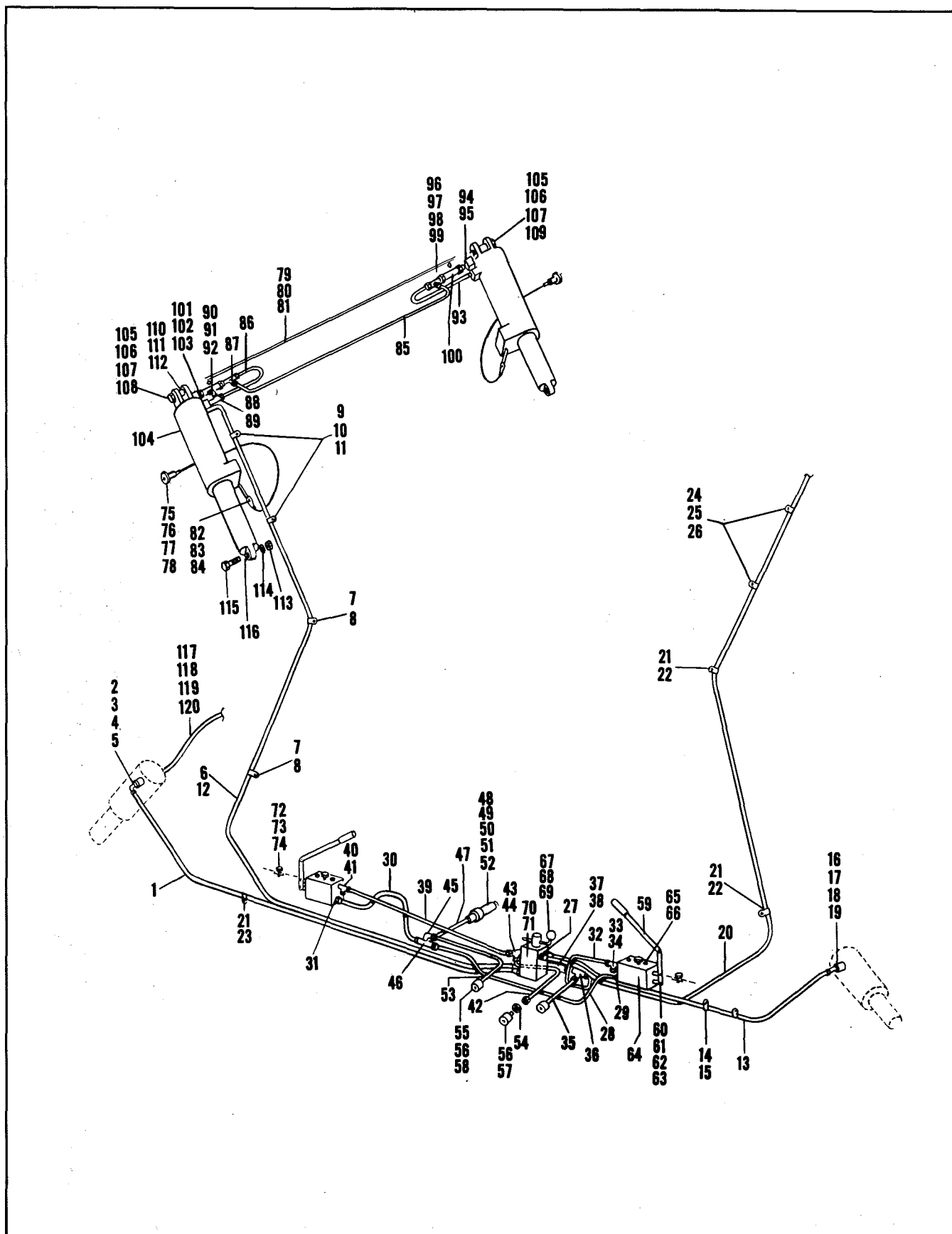


Figure 14. Hydraulic Installation, Part No. 106541-1

Section II
Group Assembly Parts List

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY	USABLE ON CODE
		1 2 3 4 5 6 7		
14-41	708-FS	CAP (30327)	1	
-42	S106021	TUBE ASSEMBLY	1	
-43	1/4 771-FS	TEE (30327)	1	
-44	3029	VALVE, Relief (00630) (Air Log Spec Cont Dwg 105262)	1	
-45	104246	ELBOW	1	
-46	S106016	TEE ASSEMBLY	1	
47	104946	TUBE ASSEMBLY	1	
-48	AN815-8	UNION	1	
-49	AN6290-8	GASKET	1	
-50	50824	FILTER, Fluid pressure (81321)	1	
-51	AN6290-8	GASKET	1	
-52	AN816-8	NIPPLE	1	
-53	S-106017	TUBE ASSEMBLY	1	
-54	AN316-7R	NUT	2	
-55	AN316-9R	NUT	1	
-56	250C-A	CAP ASSEMBLY (71561)	3	
-57	252S-457	NOSE PIECE (71561)	2	
-58	252S-657	NOSE PIECE (71561)	1	
-59	103343-7	HANDLE, Pump LH	1	
	103343-8	HANDLE, Pump RH	1	
		(ATTACHING PARTS)		
-60	MS20364-820C	NUT, Lock	1	
-61	COMM	BOLT, 1/2 -20 x 1-3/8 hd cad pl	1	
-62	3001C25	BOLT (03974)	1	
-63	AN935-8	WASHER, Lock	1	
		-----*		
-64	3001E	PUMP, Reciprocating, hand driven (03974) (Air Log Spec Cont Dwg 105167-5)	1	
		(ATTACHING PARTS)		
-65	AN510-516R14	SCREW	4	
-66	AN936C516	WASHER	4	
		-----*		
	103756	HANDLE ASSEMBLY, Valve selector (ATTACHING PARTS)	1	
-67	MS171528	PIN, Spring	1	
		-----*		
-68	103758	BALL, Handle selector valve	1	
-69	103757	HANDLE, Selector valve	1	
-70	*3620R3HQ2	VALVE ASSEMBLY, Selector (89326) (Air Log Spec Cont Dwg 103466)	1	
		VALVE ASSEMBLY, Selector (86768) (Air Log Spec Cont Dwg 103466)	1	
		(ATTACHING PARTS)		
-71	AN509-416R14	SCREW	4	
		-----*		
-72	C30	STOP (03974) (ATTACHING PARTS)	2	
-73	AN501A416-20	SCREW	4	
-74	MS20364-428C	NUT	4	
		-----*		
	102083	KNOB ASSEMBLY	2	
-75	COMM	SCREW, Set 5/16-18UNC-2X.50 lg oval pt hex socket	1	
-76	102083-3	KNOB	1	
-77	101881	GUIDE (ATTACHING PARTS)	2	
-78	NAS51-62	RING, Retaining	2	
		-----*		
-79	104942-1	COVER ASSEMBLY, Hydraulic lines support fwd (See figure 15)	1	
	104942-2	COVER ASSEMBLY, Hydraulic lines support aft (See figure 15) (ATTACHING PARTS)	1	
-80	AN501A416-7	SCREW	8	
-81	AN960-416	WASHER	8	
-82	AN381-2-8	PIN, Cotter	4	
-83	AN960-10L	WASHER	4	
-84	AN993-11	PIN	4	
		-----*		
-85	104947	TUBE ASSEMBLY	2	
-86	104948-1	TUBE ASSEMBLY	2	
-87	AN783-4	TEE	2	

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		
14- 88	AN804-4	TEE							2	
- 89	AN837-4	ELBOW							2	
- 90	AN6289-4	NUT							6	
- 91	AN6290-4	GASKET							6	
- 92	AN6291-4	RING							6	
- 93	104948-3	TUBE ASSEMBLY							2	
- 94	AN815-4	UNION							2	
- 95	AN6290-4	GASKET							2	
- 96	AN804-4	TEE							1	
- 97	AN6290-4	GASKET							2	
- 98	AN6291-4	RING							2	
- 99	AN6289-4	NUT							2	
-100	A80292	VALVE (91130) (Air Log Spec Cont Dwg 104952)							4	
-101	AN815-4	UNION							4	
-102	AN6290-4	GASKET							8	
-103	103406	PLUG, Machine thread							4	
-104	WSP-DA148	RAM, Hydraulic (47296) (Air Log Spec Cont Dwg 104944)							4	
		(ATTACHING PARTS)								
-105	AN381-4-20	PIN, Cotter							4	
-106	AN320-14	NUT							4	
-107	AN960-1416L	WASHER							8	
-108	104949-1	PIN							2	
-109	104949-2	PIN							2	
-110	AN6227-13	PACKING, "O" ring							8	
-111	MS28782-13	RING, Backup							8	
-112	AN381-4-20	PIN, Cotter							4	
-113	AN320-12	NUT							4	
-114	AN960-1216L	WASHER							4	
-115	AN32-58	BOLT							4	
-116	NAS74A12-112P	BUSHING							4	
		-----*								
-117	1660-4-4-54	HOSE ASSEMBLY, Rubber (70128)								
		(Air Log Spec Cont Dwg 111538-33)							2	
		(ATTACHING PARTS)								
-118	1725	CLAMP, Loop (94581)							5	
		-----*								
-119	AN822-4-4	ELBOW							4	
-120	PTR-S	BUSHING, 3/8 x 1/4 (45681)							4	

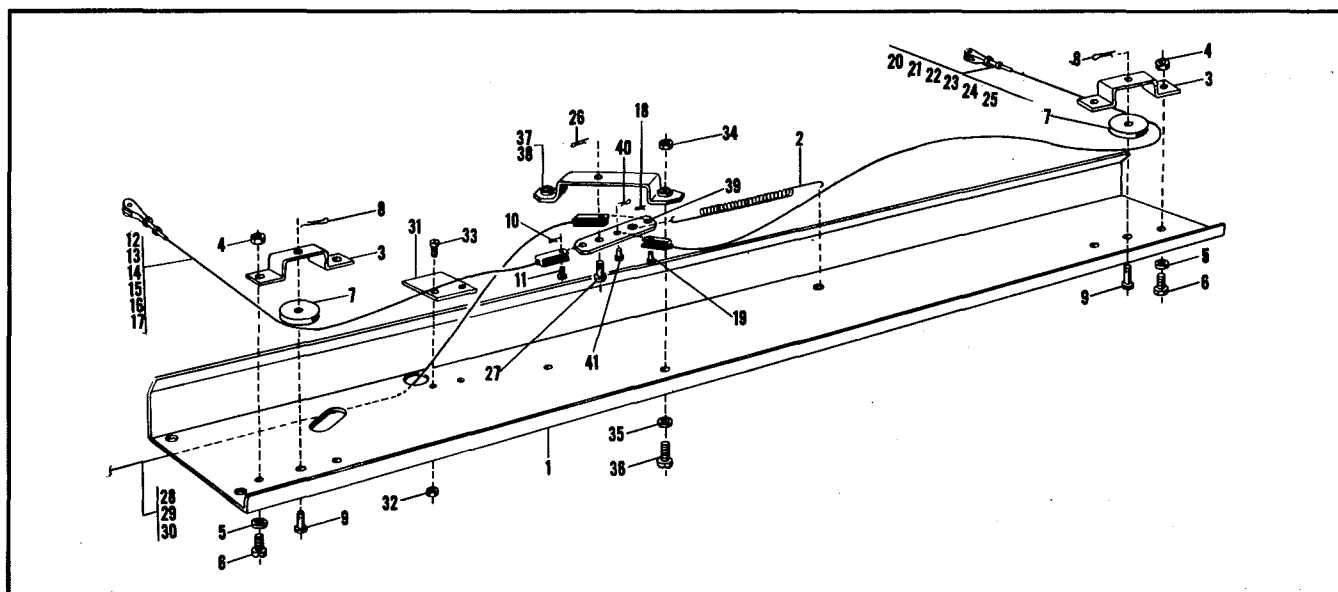


Figure 15. Hydraulic Lines Support Cover Assemblies,
Part Nos. 102076 and 104942

Section II
Group Assembly Parts List

T.O. 35D3-3-34-4

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY	USABLE ON CODE
		1 2 3 4 5 6 7		
15-	102076-1	COVER ASSEMBLY, Hydraulic lines support LH (See figures 10-57, 11-57 and 12-66 for next higher assembly)	Ref.	A, B, C, D
	104942-1	COVER ASSEMBLY, Hydraulic lines support LH (See figure 13-67 for next higher assembly)	Ref.	E, F, G, H
	102076-2	COVER ASSEMBLY, Hydraulic lines support RH (See figures 10-57, 11-57 and 12-66 for next higher assembly)	Ref.	A, B, C, D
	104942-2	COVER ASSEMBLY, Hydraulic lines support RH (See figure 13-67 for next higher assembly)	Ref.	E, F, G, H
- 1	102012-1	CHANNEL, LH	1	A, B, C, D
	104943-1	CHANNEL, LH	1	E
	102012-2	CHANNEL, RH	1	A, B, C, D
	104943-2	CHANNEL, RH	1	E, F, G, H
- 2	102045	SPRING, Latch release lever	1	
- 3	102044	BRACKET, Release cable pulley (ATTACHING PARTS)	2	
- 4	MS20365-1032C	NUT	4	
- 5	AN96010-L	WASHER	4	
- 6	AN501A10-8	SCREW	4	
		*-----		
- 7	AN210-1B	PULLEY (ATTACHING PARTS)	2	
- 8	AN381-2-6	PIN, Cotter	2	
- 9	MS20392-2-17	PIN	2	
		*-----		
✓	102047-1	CABLE ASSEMBLY, Latch release	1	A, B, C, D
	102047-7	CABLE ASSEMBLY, Latch release (ATTACHING PARTS)	1	E, F, G, H ✓
-10	AN381-2-6	PIN, Cotter	1	
-11	MS20392-2-9	PIN	1	
		*-----		
-12	AN665-21R	CLEVIS	1	
-13	AN345-10	NUT	1	
-14	AN666F3RH	TERMINAL	1	
-15	AN664C3	TERMINAL	1	
-16	102041	CLEVIS, Latch release	1	
✓-17	102047-3	CABLE, Latch release	1	A, B, C, D
	102047-11	CABLE, Latch release	1	E, F, G, H
	102047-2	CABLE ASSEMBLY, Latch release	1	A, B, C, D
	102047-9	CABLE ASSEMBLY, Latch release (ATTACHING PARTS)	1	E, F, G, H ✓
-18	AN381-2-6	Pin, Cotter	1	
-19	MS20392-2-9	PIN	1	
		*-----		
-20	AN665-21R	CLEVIS	1	
-21	AN345-10	NUT	1	
-22	AN666F3RH	TERMINAL	1	
-23	AN664C3	TERMINAL	1	
-24	102041	CLEVIS, Latch release	1	
-25	102047-5	CABLE	1	A, B, C, D
	102047-13	CABLE	1	E, F, G, H
	102024	CABLE ASSEMBLY (ATTACHING PARTS)	1	
-26	AN381-2-6	PIN, Cotter	1	
-27	MS20392-2-9	PIN	1	
		*-----		
✓-28	102041	CLEVIS	1	
✓-29	102024-3	CABLE	1	
✓-30	AN664C3	TERMINAL	1	
-31	102084	STRIP, Latch release (ATTACHING PARTS)	1	
-32	MS20365-632C	NUT	2	
-33	AN507-632-8	SCREW	2	
		*-----		
	102043	BRACKET ASSEMBLY, Latch release lever (ATTACHING PARTS)	1	
-34	MS20365-1032	NUT	2	
-35	AN960-10L	WASHER	2	

Section II
Group Assembly Parts List

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		
15-36	AN501A10-10	.	SCREW	.	.	.	.	.	2	
		.	*-----	.	.	.	.	.		
-37	102043-3	.	BRACKET, Latch release lever	.	.	.	.	.	1	
-38	22ND8-02	.	NUT, Spline (72962)	.	.	.	.	.	2	
-39	102042	.	LEVER, Latch release	.	.	.	.	.	1	
		.	(ATTACHING PARTS)	.	.	.	.	.		
-40	AN381-2-8	.	PIN, Cotter	.	.	.	.	.	1	
-41	MS20392-3-37	.	PIN	.	.	.	.	.	1	

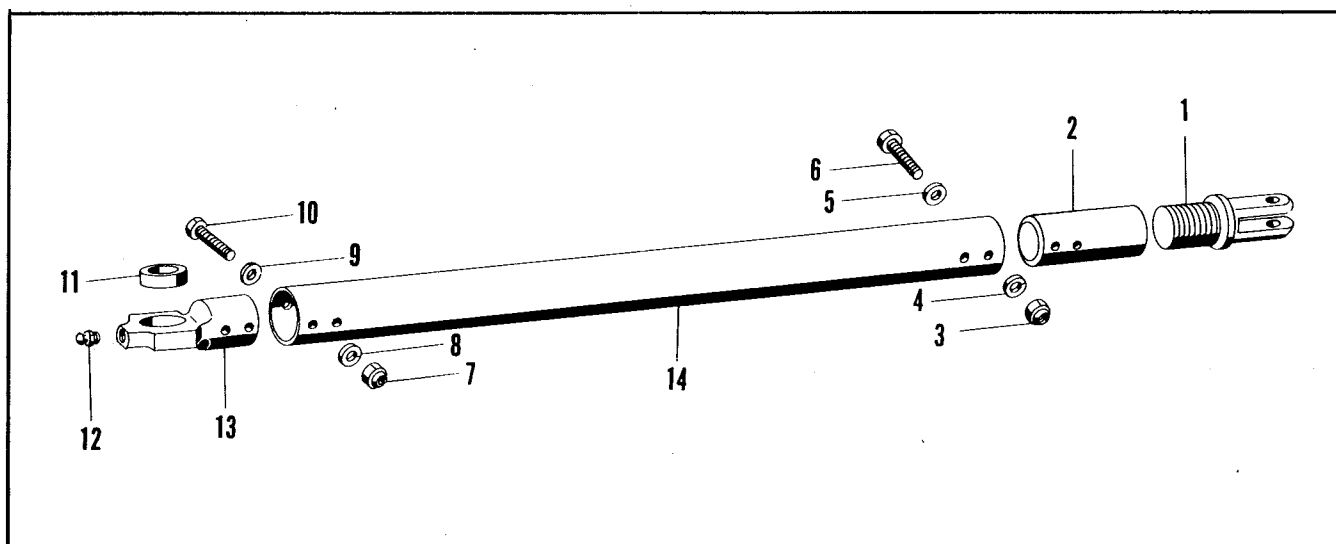


Figure 16. Connecting Rod Link, Part No. 111476

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		
16-	111476	.	LINK, Rod connecting (See figure 1-61 for next higher assembly)	.	.	.	.	.	Ref.	
- 1	111476-3	.	CLEVIS, Rod end	.	.	.	.	.	1	
- 2	111476-7	.	SLEEVE, Adjust	.	.	.	.	.	1	
		.	(ATTACHING PARTS)	.	.	.	.	.		
- 3	MS20364-428C	.	NUT	.	.	.	.	.	2	
- 4	AN960PD416L	.	WASHER	.	.	.	.	.	2	
- 5	AN960PD416	.	WASHER	.	.	.	.	.	2	
- 6	AN24-30A	.	BOLT	.	.	.	.	.	2	
		.	*-----	.	.	.	.	.		
	111476-11	.	BEARING, Plain, rod end	.	.	.	.	.	1	
		.	(ATTACHING PARTS)	.	.	.	.	.		
- 7	MS20364-428	.	NUT	.	.	.	.	.	2	
- 8	AN960PD416L	.	WASHER	.	.	.	.	.	2	
- 9	AN960PD416	.	WASHER	.	.	.	.	.	2	
-10	AN24-30A	.	BOLT	.	.	.	.	.	2	
		.	*-----	.	.	.	.	.		
-11	LSS9	.	BEARING (73134)	.	.	.	.	.	1	
-12	MS15001-1	.	FITTING, Lubrication	.	.	.	.	.	1	
-13	111476-5	.	CONNECTOR, Rod end	.	.	.	.	.	1	
-14	111476-9	.	TUBE, Link rod	.	.	.	.	.	1	

Section II
Group Assembly Parts List

T.O. 35D3-3-34-4

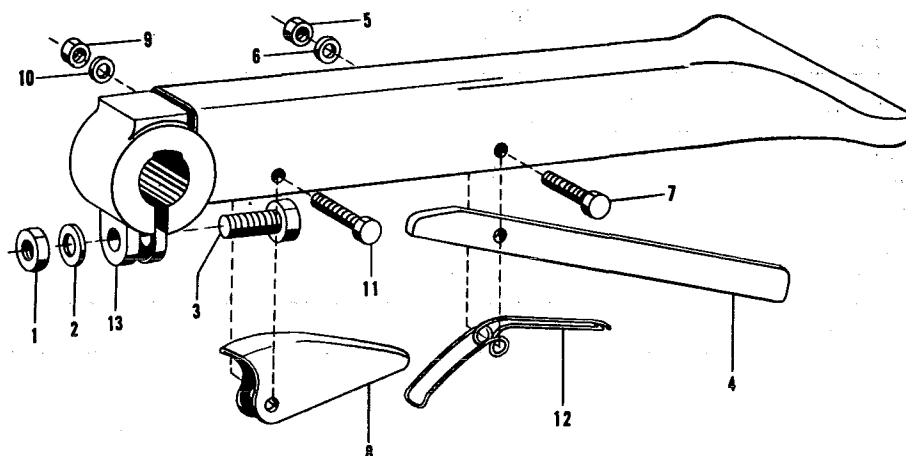


Figure 17. Brake Pedal Assembly, Part No. S101694

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		
17-	101694	PEDAL ASSEMBLY, Brake (See figure 1-97 for next higher assembly)							Ref.	
- 1	AN315-5R	.		NUT					1	
- 2	AN935-516	.		WASHER					1	
- 3	AN5-13A	.		BOLT					1	
- 4	S104925	.		LEVER, Brake release					1	
				(ATTACHING PARTS)						
- 5	MS20365-1032C	.		NUT					1	
- 6	AN960-10	.		WASHER					1	
- 7	AN3-12A	.		BOLT					1	
				— — — * — — —						
- 8	S104434	.		PAWL, Brake					1	
				(ATTACHING PARTS)						
- 9	MS20365-1032	.		NUT					1	
-10	AN960-10	.		WASHER					1	
-11	AN3-12A	.		BOLT					1	
				— — — * — — —						
-12	S104926	.		SPRING, Brake pawl					1	
-13	S104969	.		PEDAL ASSEMBLY					1	

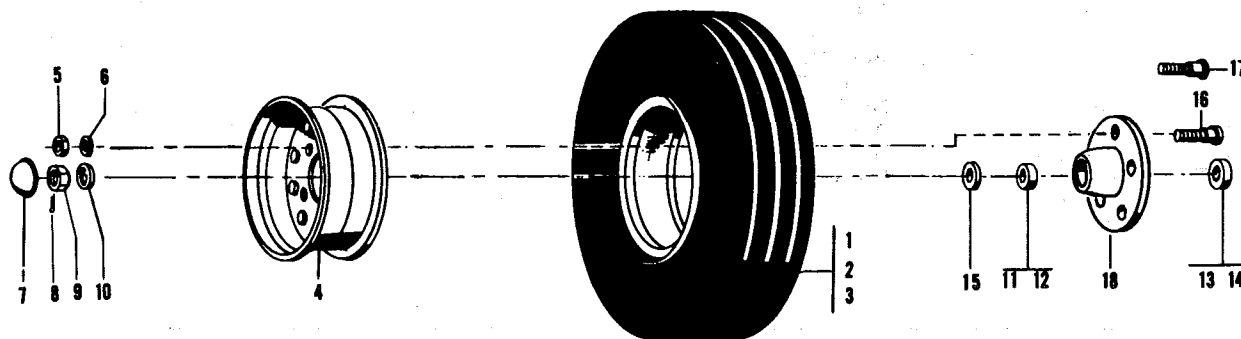


Figure 18. Wheel, Hub, Tire and Tube Assembly

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY	USABLE ON CODE
		1 2 3 4 5 6 7		
18-	No Number	WHEEL, HUB, TIRE and TUBE ASSEMBLY (See figure 1-102 for next higher assembly)	Ref.	
- 1	COMM	TIRE, 6.00 x 9 - 10 ply	1	
- 2	COMM	TUBE, 6.00 x 9	1	
- 3	COMM	FLAP, 6.00 x 9	1	
- 4	MS24325-1	WHEEL, Steel	1	
		(ATTACHING PARTS)		
- 5	AN325-8	NUT	5	
- 6	AN935-816	WASHER	5	
		— — — * — — —		
	MS24328-2	HUB ASSEMBLY	1	
- 7	*A260	CAP, Grease, wheel hub (83268)	Ref.	
- 8	*AN381-4-28	PIN, Cotter	Ref.	
- 9	*AN320-16	NUT	Ref.	
- 10	*111555	WASHER, Key	Ref.	
- 11	15245	CUP, Bearing, outboard (60038)	1	
- 12	15123	CONE, Bearing, outboard (60038)	1	
- 13	24720	CUP, Bearing, inboard (60038)	1	
- 14	24780	CUP, Bearing, inboard (60038)	1	
- 15	MLD6081SS(HI/L7)	SEAL, Plain (92798)	1	
- 16	111556-3	BOLT, Ribbed neck	5	
- 17	111556-5	BOLT, Ribbed neck	5	
- 18	No Number	HUB, Aluminum	1	

NOTE: *Listed for reference only. These details removed figure 1, indexes (101, 103, 104 and 105).

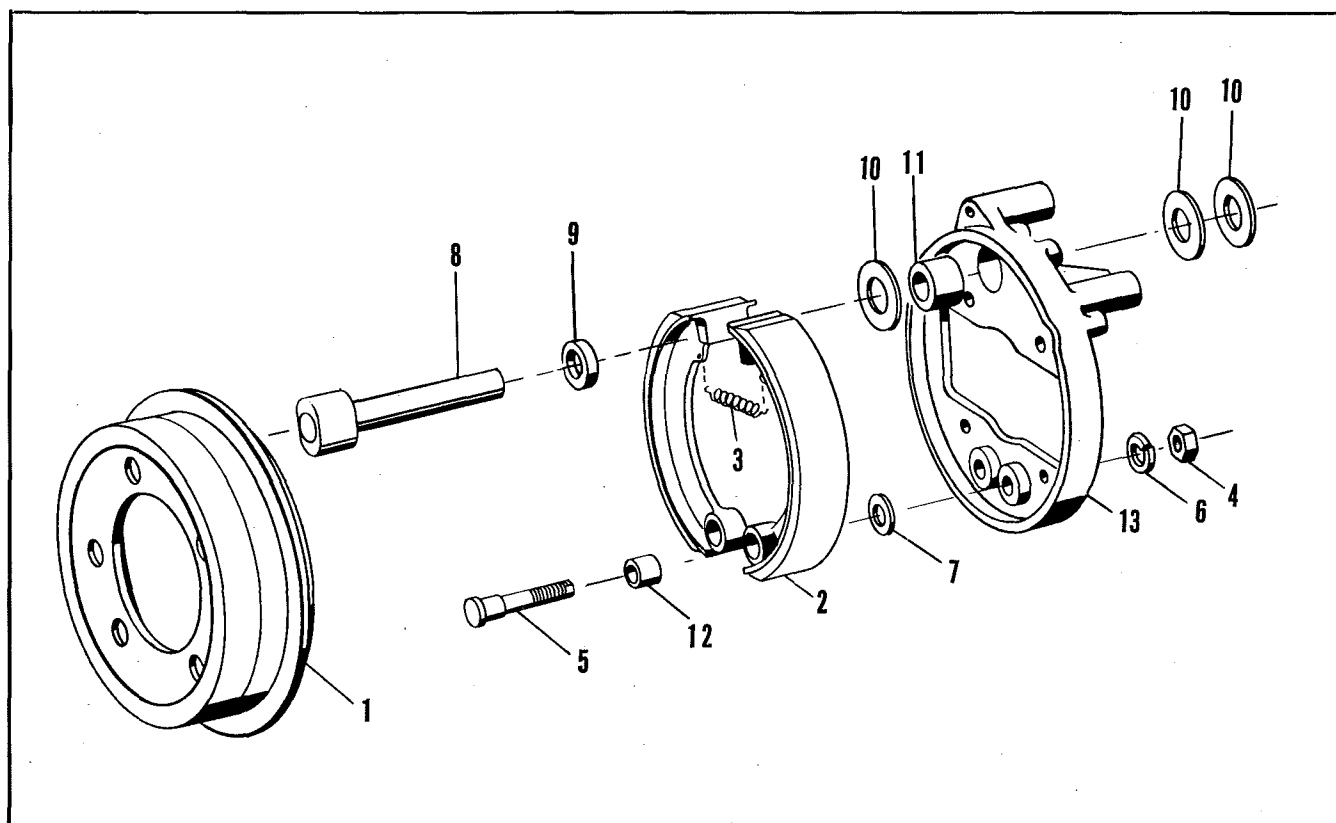


Figure 19. Brake Assembly, Part Nos. 51284L and 51284R

Section II
Group Assembly Parts List

T.O. 35D3-3-34-4

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY	USABLE ON CODE
		1 2 3 4 5 6 7		
19-	51284L	BRAKE, SHOE TYPE, (LH) (83445) (Air Log Spec Cont Dwg 101774-1) (See figure 1-106 for next higher assembly)	Ref.	A, B, C, D, E
	51284R	BRAKE, SHOE TYPE, (RH) (83445) (Air Log Spec Cont Dwg 101774-2) (See figure 1-106 for next higher assembly)	Ref.	A, B, C, D, E
- 1	51314-6	BRAKE, Drum (83445)	1	
	51284-1L	PLATE ASSEMBLY, Mounting LH (83445)	1	
	51284-1R	PLATE ASSEMBLY, Mounting RH (83445)	1	
✓ - 2	51267-2	BRAKE SHOE, Internally actuated (83445) (ATTACHING PARTS)	2	
✓ - 3	51267-5	SPRING, Helical, extension (83445)	1	
- 4	COMM	NUT, 1/2-20UNF-2B Fin hex cad pl	2	
✓ - 5	51279-40	PIVOT, Eccentric (83445)	2	
- 6	MS35335-37	WASHER, Lock	2	
- 7	AN960-816	WASHER	2	
		* — — — —		
- 8	51327-36	CAM SHAFT, Actuating, brake shoe (83445)	1	
- 9	51339-2	SPACER (83445)	1	
-10	AN960-1016L	WASHER	3	
-11	627-878-32A	BEARING, Sleeve (92798)	1	
✓ -12	50049-12	BUSHING, Sleeve (83445)	2	
-13	51284-1-1L	PLATE, Mounting LH (83445)	1	
	51284-1-1R	PLATE, Mounting RH (83445)	1	

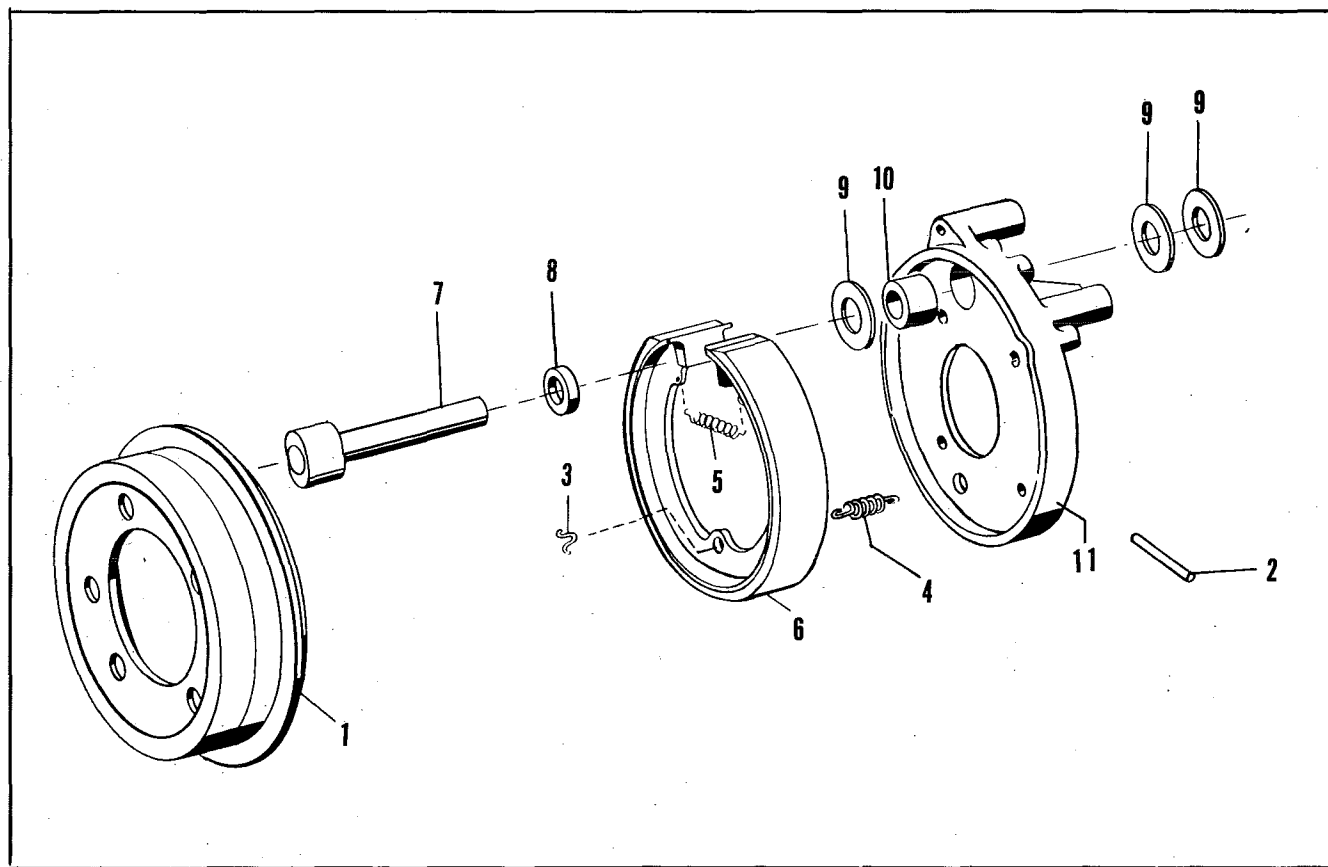


Figure 20. Brake Assembly, Part Nos. 51682L and 51682R

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY	USABLE ON CODE
		1 2 3 4 5 6 7		
20-	51682L	BRAKE, SHOE TYPE, LH (83445) (Air Log Spec Cont Dwg 107170-1) (See figure 1-106 for next higher assembly)	Ref.	F, G, H
	51682R	BRAKE, SHOE TYPE, RH (83445) (Air Log Spec Cont Dwg 107170-1) (See figure 1-106 for next higher assembly)	Ref.	F, G, H
- 1	51314-6	BRAKE DRUM (83445)	1	
- 2	MS171534	PIN, Spring	1	
- 3	55008	CLIP (83445)	1	
- 4	55007	SPRING, Helical extension (83445)	1	
- 5	51267-5	SPRING, Helical extension (83445)	1	
- 6	51496	BRAKE SHOE, Internally actuated (83445)	1	
- 7	51402-36	CAMSHAFT, Actuating, brake shoe (83445)	1	
- 8	51339-2	SPACER (83445)	1	
- 9	AN960-1016L	WASHER	3	
	51682-1L	PLATE ASSEMBLY, Mounting LH (83445)	1	
	51682-1R	PLATE ASSEMBLY, Mounting RH (83445)	1	
-10	627-878-32A	BEARING, Sleeve (92798)	1	
-11	51682-1-1L	PLATE, Mounting, LH (83445)	1	
	51682-1-1R	PLATE, Mounting, RH (83445)	1	
21-	101853	CHASSIS ASSEMBLY, (See figure 1-110 for next higher assembly)	Ref. A, B, C, D, E, F, H	
	101853-501	CHASSIS ASSEMBLY, (See figure 1-110 for next higher assembly)	Ref. G	
	S104438	DRAWBAR	1	
	S105092	PIN ASSEMBLY	1	
		(ATTACHING PARTS)		
	S102408-11	CABLE ASSEMBLY	1	
- 1	S102408-1550	CABLE	1	
- 2	12	SWAGING SLEEVE, Wire rope (76691) (04634)	2	
- 3	S102408-503	COVER	2	
		----- * -----		
- 4	S105599	SPRING, Lock	1	
- 5	S105601	RING, D	1	
- 6	S105600	PIN	1	
	S104438-3	TUBE ASSEMBLY, Outer	1	
- 7	825	PIN, Spring lock (99946)	1	
		(ATTACHING PARTS)		
	S102408-7	CABLE ASSEMBLY	1	
- 8	S102408-1150	CABLE	1	
- 9	12	SWAGING SLEEVE, Wire rope (76691)	2	
-10	S102408-503	COVER (04634)	2	
		----- * -----		
-11	No Number	TUBE ASSEMBLY (Weldment)	1	
-12	S104438-5	TUBE ASSEMBLY, Inner	1	
-13	111405	LINK, Drawbar pivot RH	1	
	111406	LINK, Drawbar pivot LH	1	
		(ATTACHING PARTS)		
-14	AN381-3-12	PIN, Cotter	3	
-15	AN320-8	NUT	1	
-16	AN960-816	WASHER	1	
-17	AN28-44	BOLT	1	
-18	AN320-6	NUT	2	
-19	AN960-616	WASHER	2	
-20	AN26-21	BOLT	2	
-21	NAS75-6-024	BUSHING	2	
		----- * -----		
-22	111426	FITTING, Drawbar pivot	1	
		(ATTACHING PARTS)		
-23	NAS51-50	RING, Retaining	2	
-24	111531	PIN, Drawbar pivot	2	
		----- * -----		
-25	111407	TIEROD, Steering (See figure 22)	4	A, B, C

Section II
Group Assembly Parts List

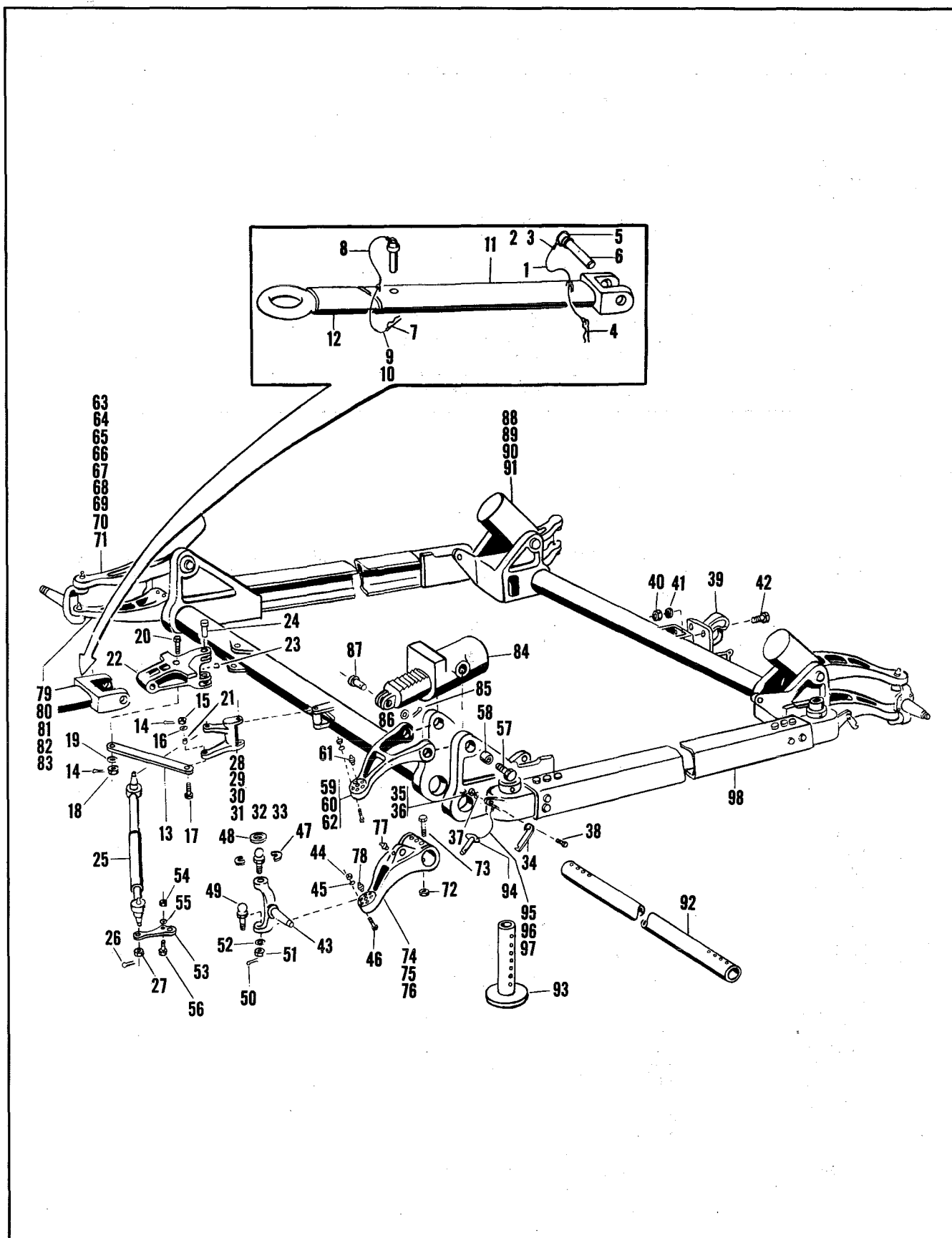


Figure 21. Chassis Assembly, Part Nos. 101853 and 101853-501

Section II
Group Assembly Parts List

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY	USABLE ON CODE
		1 2 3 4 5 6 7		
21-	103006	TIEROD, Steering (See figure 22) (ATTACHING PARTS)	4	D, E, F, G, H
-26	AN381-4-20	PIN, Cotter	8	
-27	AN310-8	NUT	8	
		----- *		
-28	111423-1	CRANK, Steering linkage LH	1	A, B, C
	111423-2	CRANK, Steering linkage RH	1	A, B, C
	103043-1	CRANK, Steering linkage LH	1	D, E, F, G, H
	103043-2	CRANK, Steering linkage RH	1	D, E, F, G, H
		(ATTACHING PARTS)		
-29	AN381-8-2	PIN, Cotter	4	D, E, F, G, H
-30	MS20365-524C	NUT	4	A, B, C
	AN320-5	NUT	4	D, E, F, G, H
-31	AN509-516R18	SCREW	2	A, B, C
	103169	SCREW	2	D, E, F, G, H
-32	AN5-11A	BOLT	2	A, B, C
	AN5-10	BOLT	2	D, E, F, G, H
-33	111530	BUSHING	4	A, B, C
		----- *		
-34	111471	FITTING, 90° turn	4	A, B, C
	103011	FITTING, 90° turn	4	D, E, F, G, H
		(ATTACHING PARTS)		
-35	AN381-2-8	PIN, Cotter	4	
-36	AN320-5	NUT	4	
-37	AN960-516L	WASHER	4	
-38	AN25-17	BOLT	4	
		----- *		
-39	1048W0	PINTLE ASSY, Towing (83269) (ATTACHING PARTS)	1	
-40	MS20365-820C	NUT	4	
-41	AN960-816	WASHER	4	
-42	AN8-13A	BOLT	4	
		----- *		
-43	111437-1	SPINDLE, Front wheel	2	
	111437-3	SPINDLE, Rear wheel	2	
		(ATTACHING PARTS)		
-44	MS20364-428C	NUT	48	
-45	AN960-PD-416	WASHER	48	
-46	AN4-16A	BOLT	48	
-47	111435	RETAINER, Wheel spindle	16	
-48	111479	WASHER, Felt	8	
		----- *		
-49	111419-1	STUD, Ball	4	
	111419-3	STUD, Ball	4	
		(ATTACHING PARTS)		
-50	AN381-4-32	PIN, Cotter	8	
-51	AN320-16	NUT	8	
-52	AN960-1616	WASHER	8	
		----- *		
-53	111478-1	ARM, Steering spindle LH fwd, RH aft	2	
	111478-2	ARM, Steering spindle RH fwd, LH aft	2	
		(ATTACHING PARTS)		
-54	MS20364-820C	NUT	4	
-55	AN960-816	WASHER	4	
-56	AN8-22A	BOLT	4	
		----- *		
	111424-1	ARM ASSEMBLY, Upper fwd LH	1	
	111424-2	ARM ASSEMBLY, Upper aft LH	1	
		(ATTACHING PARTS)		
-57	111416	BOLT	4	
-58	111417	SPACER	4	
		----- *		
-59	111424-5	ARM, Upper fwd LH	1	
	111424-6	ARM, Upper aft LH	1	
-60	111436	BUSHING	2	
-61	MS15001-1	FITTING, Lubrication	3	
-62	111438	INSERT	1	

Section II
Group Assembly Parts List

T.O. 35D3-3-34-4

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION	UNITS PER ASSY	USABLE ON CODE
		1 2 3 4 5 6 7		
21-	111424-1	ARM ASSEMBLY, Upper aft RH	1	
	111424-2	ARM ASSEMBLY, Upper fwd RH	1	
		(ATTACHING PARTS)		
-63	AN381-436	PIN, Cotter	4	A, B, C, D, E, F
-64	AN960-2616	WASHER	4	A, B, C, D, E, F
-65	111418	PIN, Arm	2	A, B, C, D, E, F
-66	111416	BOLT	4	G, H
-67	111417	SPACER	4	G, H
		* — — — —		
-68	111424-5	ARM, Upper aft RH	1	
	111424-6	ARM, Upper aft LH	1	
-69	111436	BUSHING	2	
-70	MS15001-1	FITTING, Lubrication	3	
-71	111438	INSERT	1	
	102132-1	ARM ASSEMBLY, Lower fwd LH	1	A, B, C, D, E, F
	102132-1	ARM ASSEMBLY, Lower fwd LH	2	G, H
	102132-2	ARM ASSEMBLY, Lower aft LH	1	A, B, C, D, E, F
	102132-2	ARM ASSEMBLY, Lower aft LH	2	G, H
		(ATTACHING PARTS)		
-72	MS20365-820C	NUT	8	A, B, C, D, E, F
	MS20365-820	NUT	16	G, H
-73	AN8-43A	BOLT	8	A, B, C, D, E, F
	AN8-43A	BOLT	16	G, H
		* — — — —		
-74	102132-5 - 3	FITTING, Arm assembly lower fwd LH	1	
	102132-6 - 4	FITTING, Arm assembly lower aft LH	1	
-75	102247	BUSHING	1	
-76	111438	INSERT	1	
-77	MS15001-3	FITTING, Lubrication	1	
-78	MS15001-1	FITTING, Lubrication	1	
	102132-9	ARM ASSEMBLY, Lower aft RH	1	A, B, C, D, E, F
	102132-10	ARM ASSEMBLY, Lower fwd RH	1	A, B, C, D, E, F
		(ATTACHING PARTS)		
-79	MS20365-820C	NUT	8	A, B, C, D, E, F
-80	AN8-43A	BOLT	8	A, B, C, D, E, F
		* — — — —		
-81	102132-7 - 3	FITTING, Arm assembly lower aft RH	1	
	102132-8 - 4	FITTING, Arm assembly lower fwd RH	1	
-82	MS15001-3	FITTING, Lubrication	1	
-83	111438	INSERT	1	
-84	WSP11-417B	RAM, Hydraulic (47296) (Air Log Spec Cont Dwg 102125)	2	
		(ATTACHING PARTS)		
-85	AN381-4-20	PIN, Cotter	4	
-86	AN960-1216	WASHER	4	
-87	102248	PIN, Straight, headless	2	
		* — — — —		
-88	WSP-ROL417	RAM, Hydraulic (47296) (Air Log Spec Cont Dwg 107135)	2	G, H
		(ATTACHING PARTS)		
-89	AN381-4-20	PIN, Cotter	4	G, H
-90	AN960-1216	WASHER	4	G, H
-91	102248	PIN, Straight, headless	2	G, H
		* — — — —		
-92	101851-1	TUBE, Torque fwd	1	A, B, C, D, E, F
	101851-2	TUBE, Torque aft	1	A, B, C, D, E, F
	101851-501	TUBE, Torque	2	G, H
-93	102040	FOOT ASSEMBLY	4	
-94	BL-PPTS8-3.750	PIN, Quick release (97978)	4	
	S102408-7	CABLE ASSEMBLY	4	
-95	S102408-1150	CABLE	1	
-96	12	SWAGING SLEEVE, Wire rope (77691)	2	
-97	S102408-503	COVER	2	
-98	102053	FRAME ASSEMBLY, Main (See figure 22)	1	

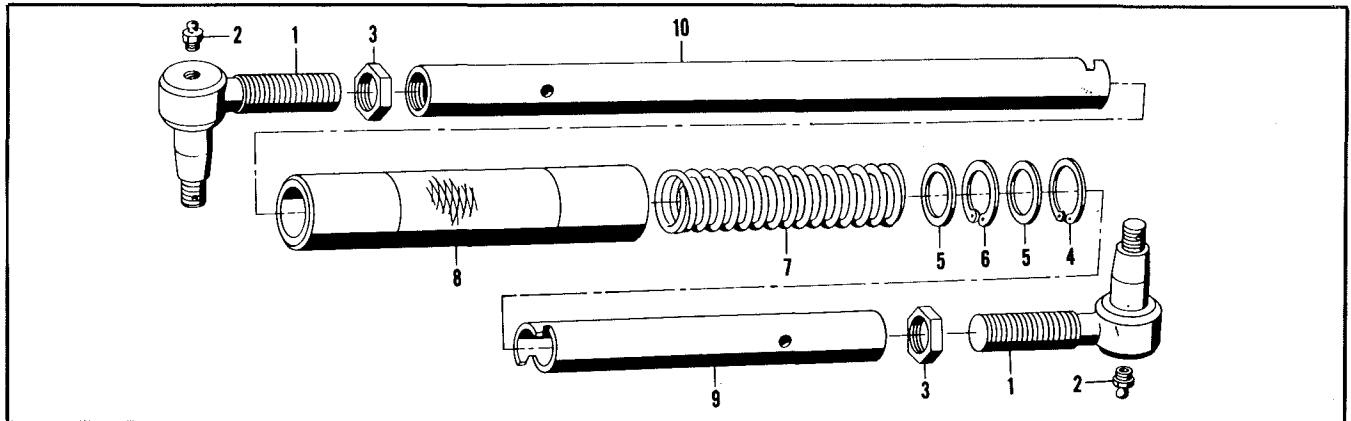


Figure 22. Tierod, Steering, Part Nos. 111407 and 103006

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		
22-	111407	TIEROD, Steering (See figure 21-25 for next higher assembly)							Ref.	A, B, C
	103006	TIEROD, Steering (See figure 21-25 for next higher assembly)							Ref.	D, E, F, G, H
- 1	LM14SV364L11	TIEROD END, Steering (59875)							2	
- 2	MS15001-1	FITTING, Lubrication							2	
- 3	100551	NUT, Check							2	
- 4	NAS50-131	RING, Retainer							1	
- 5	111407-9	WASHER							2	
- 6	NAS51-87	RING, Retainer							1	
- 7	111409	SPRING							1	
- 8	111407-7	SLEEVE							1	
- 9	111407-3	ROD, Outboard							1	A, B, C
	103008	ROD, Outboard							1	D, E, F, G, H
-10	111407-5	ROD, Inboard							1	A, B, C
	103007	ROD, Inboard							1	D, E, F, G, H

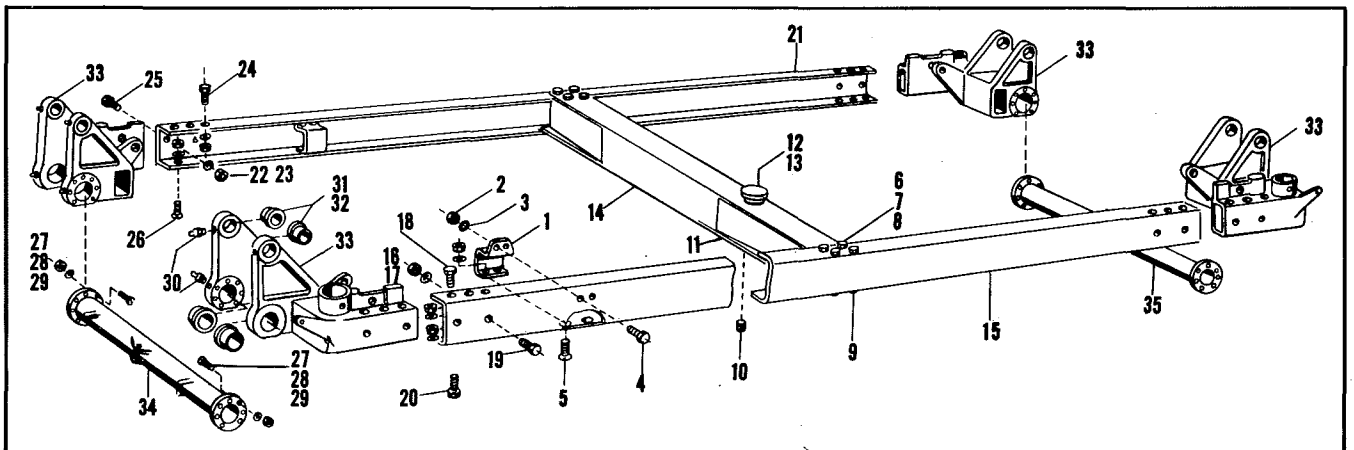


Figure 23. Main Frame Assembly, Part No. 102053

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		
23-	102053	FRAME ASSEMBLY, Main (See figure 21-98 for next higher assembly)							Ref.	
- 1	111474	BRACKET, Stabilizing link support							2	

Section II
Group Assembly Parts List

T.O. 35D3-3-34-4

FIG. & INDEX NO.	PART NUMBER	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
1	2	3	4	5	6	7				
		(ATTACHING PARTS)								
23- 2	MS20365-624C	NUT							8	
- 3	AN960-616	WASHER							8	
- 4	AN6-10A	BOLT							4	
- 5	AN509-616R20	SCREW							4	
		* — — —								
	101874	TANK, Oil, hydraulic system							1	A, B, C
	104187	TANK, Oil, hydraulic system							1	D, E, F, G, H
		(ATTACHING PARTS)								
- 6	MS20365-428C	NUT							16	
- 7	AN960PD416	WASHER							16	
- 8	AN4-11A	BOLT							8	
- 9	AN509-416R17	SCREW							8	
		* — — —								
-10	AN932-3	PLUG, Drain							1	
-11	566-3	PLUG, Vent (91561)							1	A, B, C
-12	103714	CAP ASSEMBLY							1	D, E, F, G, H
-13	103400	STRAINER							1	D, E, F, G, H
-14	10874-7	TANK							1	A, B, C
	104187-7	TANK							1	D, E, F, G, H
-15	101928	CHANNEL, Main frame side LH							1	A, B
	103656	CHANNEL, Main frame side LH							1	C, D
	104945	CHANNEL, Main frame side LH							1	E, F, G, H
		(ATTACHING PARTS)								
-16	MS20365-820C	NUT							16	
-17	AN960PD816	WASHER							16	
-18	AN8-17A	BOLT							6	
-19	AN8-15A	BOLT							4	
-20	AN509-816R29	SCREW							6	
		* — — —								
-21	102364	CHANNEL, Main frame side RH							1	
		(ATTACHING PARTS)								
-22	MS20365-820C	NUT							16	
-23	AN960PD816	WASHER							16	
-24	AN8-17A	BOLT							6	
-25	AN8-15A	BOLT							4	
-26	AN509-816R29	SCREW							6	
		* — — —								
	111439-1	FITTING ASSEMBLY, Fwd LH, aft RH							2	
	111439-2	FITTING ASSEMBLY, Fwd, RH, aft LH							2	
		(ATTACHING PARTS)								
-27	MS20365-624C	NUT							28	
-28	AN960-616	WASHER							28	
-29	AN509-616R39	SCREW							28	
		* — — —								
-30	MS15001-1	FITTING, Lubrication							4	
-31	111455	BUSHING, Main frame corner							2	
-32	111454	BUSHING, Main frame corner							2	
-33	111439-5	FITTING, Fwd LH, aft RH							1	
	111439-6	FITTING, Fwd RH, aft LH							1	
-34	111431	TUBE ASSEMBLY, Frame fwd							1	A, B, C
	103032	TUBE ASSEMBLY, Frame fwd							1	D, E, F, G, H
-35	111472	TUBE ASSEMBLY, Frame aft							1	

SECTION III
NUMERICAL INDEX

PART NO.	STOCK NO.	FIG. & INDEX NO.	SOURCE CODE	TOTAL QTY.
AN12-37A		1-58		16
AN12-53A		1-89		4
AN12-57A		1-88		4
AN14-44		1-82		2
AN14-45		1-74		2
AN207DPP8	3110-142-4440	3-29	P1	2
AN210-1B		15-7		8
AN24-22A		8-4		1
AN24-30A		16-6		8
AN24-36A		3-19		4
AN24-38A		3-32		4
AN25-17		21-38		4
AN26-18		1-65		2
AN26-21		21-20		2
AN28-44		21-17		1
AN3-12A	5306-151-0782	17-7		4
AN310-8	5310-167-1289	1-50		12
AN310-9		1-67		2
AN315-5R	5310-167-1345	17-1		2
AN316-7R		14-54		2
AN316-9R		14-55		1
AN32-58		10-108		4
AN320-12	5310-167-8115	10-106		4
AN320-14		1-72		8
AN320-16	5310-176-8117	1-104		12
AN320-4-6		10-100		8
AN320-5	5315-176-8109	21-30		8
AN320-6		1-27		6
AN320-7		1-11		1
AN320-8		1-32		3
AN325-8		18-5		20
AN335-8		3-25		1
AN345-10		15-13		4
AN380-2-1		10-62		4
AN380-2-2		6-2		1
AN381-2-6		15-8		14
AN381-2-8	5315-251-4701	12-69		8
AN381-3-12		1-10		14
AN381-4-14		1-90		4
AN381-4-16	5315-286-0148	1-66		2
AN381-4-20	5315-285-7162	12-113		24
AN381-4-24	5315-285-7163	1-71		4
AN381-4-28	5315-285-7160	1-103		4
AN381-4-32		21-50		8
AN381-4-36		21-63		4
AN381-6-36		1-46		8
AN381-8-2		21-29		4
AN393-11		10-64		4
AN394-2-7		6-3		1
AN4-11A	5306-151-1423	23-8		8
AN4-16A		11-64		54

PART NO.	STOCK NO.	FIG. & INDEX NO.	SOURCE CODE	TOTAL QTY.
AN4-22A	5306-151-1414	4-55		2
AN4-4A	5306-150-9105	4-59		4
AN4-5A		1-37		12
AN4-6A	5306-151-1426	4-54		9
AN4-7A	5306-151-1425	1-3		31
AN427-8C10		3-35		12
AN5-10A	5306-145-7036	1-6		10
AN5-11A		21-32		2
AN5-12A	5306-151-2627	10-47		6
AN5-13A	5306-151-2626	17-3		2
AN5-15A	5306-151-1283	4-62		2
AN500A516-10	5305-151-0560	1-99		4
AN501A10-10		10-78		4
AN501A10-8		10-8		8
AN501-416-20		12-56		4
AN501-416-7		10-58		8
AN507-632-8		15-33		4
AN509-416R14	5306-150-9882	1-44		12
AN509-416R17		23-9		8
AN509-416R19		1-41		8
AN509-516-12		4-47		4
AN509-516R10		3-43		4
AN509-516R13		5-34		2
AN509-516R14		1-16		8
AN509-516R18		21-31		2
AN509-616R18		3-47		2
AN509-616R20		23-5		4
AN509-616R39		23-29		28
AN509-816R29		23-20		12
AN510-516R14		12-52		4
AN520-10R10	5305-151-2768	1-34		2
AN520-10R8	5305-144-3819	5-3		2
AN525-416-6		1-19		8
AN530-10R12		10-6		4
AN530-10R8		9-8		4
AN530-2R3	5305-180-0630	1-117		4
AN535-0-3	5305-175-3227	1-112		62
AN6-10A		23-4		4
AN6-11A	5306-151-1340	1-109		16
AN6-12		1-29		2
AN6-17A		5-5		4
AN6-20A	5306-281-8477	5-6		8
AN6-26A		5-6		4
AN6227-13		10-104		8
AN6270-4-4 3/4		11-78		2
AN6270-4-8 3/4		10-68		2
AN6289-4	5310-282-4608	11-90		2
AN6289-6	4730-200-0511	11-76		4
AN6290-4	5330-285-9838	10-70		22
AN6290-6	5330-285-9840	10-73		8
AN6290-8	5330-285-9841	12-37		2

Section III
Numerical Index

PART NO.	STOCK NO.	FIG. & INDEX NO.	SOURCE CODE	TOTAL QTY.
AN6291-4		12-100		6
AN6291-6		12-87		4
AN664C3		15-15		6
AN665-21R		15-12		4
AN666F3RH		15-14		4
AN783-4		13-75		2
AN8-12A		3-51		18
AN8-13A		21-42		4
AN8-14A		3-20		10
AN8-15A	5306-208-3645	23-19		8
AN8-17A	5306-208-3672	23-18		12
AN8-22A		21-56		4
AN8-43A		21-73		16
AN8-63		1-52		4
AN804-4		10-86		2
AN804-8		10-38		1
AN815-4		13-82		6
AN815-8		12-38		1
AN816-4		10-67		4
AN816-4-4		10-80		4
AN816-7	4730-222-1795	12-34		2
AN816-8	4730-194-1114	12-39		1
AN822-4		10-21		3
AN822-4-4	4730-231-4009	10-26		4
AN823-4		13-2		2
AN824-8		12-42		1
AN826-4		11-97		2
AN833-6	4730-231-3028	11-75		4
AN837-4		13-77		2
AN893-2	4730-188-8031	11-92		2
AN894-6-4		11-74		6
AN9-51		1-69		2
AN911-2		10-82		6
AN913-3S		13-5		2
AN924-4	5325-282-7819	10-71		4
AN924-6	5310-282-7817	10-74		2
AN924-8		10-39		1
AN931A12S20		10-98		2
AN931A4S16		10-97		1
AN932-3		11-99		4
AN935-10L	5310-167-0662	10-9		8
AN935-416	5310-167-0668	1-38		12
AN935-416L	5310-167-0677	4-56		7
AN935-516	5310-167-0670	1-15		16
AN935-8		12-50		2
AN935-816	5310-167-0678	3-21		23
AN936B416	5310-167-0870	1-20		8
AN936C516		12-53		4
AN960-10	5310-167-0818	17-6		4
AN960-10L		10-63		16
AN960-1016L	5210-167-0841	1-91		10
AN960-1216	5310-167-0826	1-87		16
AN960-1216L	5310-167-0842	1-57		22
AN960-1416		1-73		4
AN960-1416L		10-102		4
AN960-1616	5310-167-0828	21-52		8
AN960-2616		21-64		4
AN960-416	5310-550-3502	1-40		16
AN960-416L	5310-167-0835	3-18		9
AN960-516	5310-167-0820	1-8		18
AN960-516L	5310-167-0836	21-37		4
AN960-616	5310-167-0821	1-28		48
AN960-716		1-12		1
AN960-816	5310-167-0823	1-51		17
AN960-816L	5310-167-0839	5-27		50
AN960-916		1-68		2
AN960PD416		16-5		72

PART NO.	STOCK NO.	FIG. & INDEX NO.	SOURCE CODE	TOTAL QTY.
AN960PD416L		16-4		8
AN960PD816		23-17		32
A260	2530-204-2212	1-101	P1	18-7
		18-7		
A6534-10Z1	6500-534366-5423	9-7	P1	4
A80292		13-88		4
		14-100		
BL-PPTS8-3.750	5340-587-8296	21-94	P1	4
BL-SLS6-2.750	5340-587-8298	3-6	P1	1
		4-6		
BL-ST512-2.750	5340-587-8300	5-8	P1	2
BL-ST55-1.250	5340-587-8299	3-11	P1	1
		4-10		
BL-ST58-1.750	5340-587-8297	3-2	P1	1
		4-2		
BOLT		12-48		2
		13-49		
		14-61		
BSN9003GC	3400-308530	6-6	X1	1
		7-5		
C30		12-54		2
		13-60		
		14-72		
C3049S12-16	6500-249318	10-7	P1	4
		10-18		
		11-7		
		11-18		
		12-7		
		12-18		
		13-9		
		13-24		
		14-9		
		14-24		
C3050S12-16	5340-579-2329	10-5	P1	4
		10-15		
		10-24		
		11-5		
		11-15		
		11-24		
		12-5		
		12-15		
		12-24		
		13-7		
		13-14		
		13-21		
		14-7		
		14-14		
C3110A4-27		10-77		4
DU1-50		10-45	P1	2
DU1-562	1740-608-9722	11-45	P1	2
FB1620-6	3120-555-4153	1-24	X1	8
FLAP		18-3		4
HUB		18-18		4
KP12A		2-3	P1	1
LM14SV364L11		22-1	P1	8
LP8-12A		4-68		3
LSS6	3400-308075	1-77	P1	2
LSS9	3400-308085	16-11	P1	2
L120	1730-540-9348	3-48	P1	1
		4-65		
NAS338CA13		5-32		16
NAS50-131	5340-530-6783	22-4		4
NAS51-50		21-23		2
NAS51-62		10-56		2
NAS51-87	5340-200-3506	22-6		4
NAS5-48P10-14		10-17		1
NAS74A12-112P		11-113		4
NAS74A6-005P	3120-580-0676	1-30	P1	2

Section III
Numerical Index

PART NO.	STOCK NO.	FIG. & INDEX NO.	SOURCE CODE	TOTAL QTY.
NAS74A7-007P		1-18		1
NAS75-6-024		21-21		2
NUT 1/2-20UNF		19-4		4
MC232	4820-560-6754	10-51	P1	1
		11-51		
		12-60		
MLD6081SS (H1/L7)	5330-576-4465	18-15	P1	4
MS15001-1	4730-050-4203	1-76	KD	41
MS15001-3	4730-289-5886	1-75	KD	10
MS171528		10-48		1
MS171534		20-2		2
MS171654	5315-290-7696	1-4		4
MS171662	5315-582-5389	5-19		4
MS20364-1032C	5310-275-2025	5-2		2
MS20364-1216C	5310-285-5644	1-56		24
MS20364-428C	5310-227-7139	3-17		88
MS20364-524C		1-7		14
MS20364-820C	5310-285-5638	3-49		8
MS20365-1032C	5310-282-0512	1-35		18
MS20365-428C	5310-207-8269	1-2		59
MS20365-440C		10-4		2
MS20365-524C	5310-665-6687	1-14		12
MS20365-624C	5310-275-2088	1-107		62
MS20365-632C		15-32		4
MS20365-820C	5310-595-7433	5-26		84
MS20392-2-17		15-9		8
MS20392-2-9		15-11		6
MS20392-3-37		15-41		2
MS24325-1	2530-540-1912	18-4	P1	4
MS24328-2	2530-562-3415	18-		4
MS28682-13		10-105		8
MS35335-37		19-6		4
PIN, TYPE 3		7-2		2
PTR-S		13-4		6
		13-18		
		13-108		
		14-4		
		14-18		
		14-120		
R33	4820-592-9891	10-27	P1	2
		11-27		
		12-27		
SCREW		10-52		4
		11-52		
SCREW, SET		10-53		1
		11-53		
		12-62		
		13-63		
		14-75		
S102408-11	1740-789-4140	3-		3
		4-		
		21-		
S102408-1150		21-8		5
		21-95		
S102408-1350		5-11	M	2
S102408-15		4-		1
S102408-1550		3-3	M	3
		3-7		
		4-5		
		4-9		
		21-1		
S102408-1950		4-45		1
S102408-5		3-	P1	1
		4-		
S102408-503		3-5		24
		3-9		
		3-14		

PART NO.	STOCK NO.	FIG. & INDEX NO.	SOURCE CODE	TOTAL QTY.
		4-3		
		4-7		
		4-11		
		4-43		
		5-9		
		21-3		
		21-10		
		21-97		
S102408-7	1740-798-4139	21-		5
S102408-950		3-12		1
		4-13		
S104434	1740-588-6048	17-8	P1	2
S104438	1740-613-6609	21-	P1	1
S104438-3	1740-602-4542	21-	P1	1
S104438-5	1740-602-4543	21-12	P1	1
S104925	1740-588-6049	17-4	P1	2
S104926	1740-588-6050	17-12	P1	2
S104969	2530-591-0259	17-13	P1	2
S105092	1740-602-7967	21-	P1	1
S105599	5315-579-6166	21-4	P1	1
S105600		21-6	X1	1
S105601	ERRO		P1	1
	1450-767-0168			
S106016		14-46	P1	1
S106017		14-53	P1	1
S106020		14-35	P1	1
S106021		14-42	P1	1
S87704		10-93	P1	2
		11-100		
		12-109		
TIRE		18-1		4
TUBE		18-2		4
TUBE ASSY		21-11		1
WHEEL, HUB, TIRE & TUBE ASSY		1-102		4
		18-		
WSP-DA128A	1740-571-9269	10-99		4
		11-103		
		12-112		
WSP-DA148 ✓		13-92		4
		14-104		
WSP-ROL417	4320-811-5573	21-88	P1	2
WSP11-417B	1740-571-9275	21-84	P1	2
1/4 771-FS		14-33		4
10-1460-2		13-58		1
10-2555-3	1730-650-1410	10-89	P1	2
100551	5310-515-7812	22-3	P1	8
100628A	1730-294-3397	1-		Ref
101208	1740-569-0596	8-5	P1	1
101683	1740-568-0597	1-85	P1	2
101686	1740-568-0598	1-55	P1	2
101694	1740-568-9591	1-97	P1	2
		17-		
101751	1740-568-0599	10-31	P1	2
		10-44		
		11-31		
		11-44		
101774-1		SEE P/N 51284L		
101774-2		SEE P/N 51284R		
101792		5-25		2
101801		SEE P/N WSP-DA128A		
101825		1-54		1
		10-		
101836	1740-568-0600	10-72	P1	2
		12-94		
101851-1		21-92	P1	1
101851-2		21-92	P1	1
101851-501	1740-786-7349	21-92	P2	2
101853		1-110	A	1

Section III
Numerical Index

PART NO.	STOCK NO.	FIG. & INDEX NO.	SOURCE CODE	TOTAL QTY.	PART NO.	STOCK NO.	FIG. & INDEX NO.	SOURCE CODE	TOTAL QTY.
101853-501		21- 1-110	A	1	102041		15-16	M	6
101874	1740-568-9592	21-			102042	1740-568-9602	15-39	P1	2
101874-7		23-	P1	1	102043	1740-568-9618	15-	P	2
101881	1740-568-0601	23-14	M	1	102043-3	1740-612-4157	15-37	P1	2
		10-55		2	102044	1740-588-6052	15-3	M	4
		11-55			102045	5340-567-9644	15-2	P1	2
		12-64			102047-1	1740-591-8573	15-		2
		13-65			102047-11		15-17		2
		14-77			102047-13		15-25	M	2
101883	4730-595-4043	10-10	P1	3	102047-2	1740-591-8574	15-		2
		10-29			102047-3		15-17	P1	2
		10-43			102047-5		15-25	M	2
		11-10			102047-7		15-	M	2
		11-29			102047-9		15-	M	2
		11-43			102053		21-98	A	1
		12-10					23-		
		12-29			102057		SEE P/N R33		
		12-44			102059		10-	P1	1
101916		10-30	M	1			11-		
101917		11-30					12-		
		10-42	M	1	102059-3	1740-588-6064	SEE P/N MC232		
		11-42			102061	1740-576-0379	1-120	P1	1
101918		10-35	M	1	102062-3	1740-508-9947	9-5	P1	1
		11-35			102062-5	1740-508-9948	9-4	P1	1
101919		10-32	M	1	102063		1-48	A	1
101920		11-33					9-		
		10-37	M	1	102064	1740-568-0619	5-1	P1	1
		11-37			102065	1730-650-1410	SEE P/N 10-2555-3		
101928		23-15	P1	1	102066		SEE P/N 3027		
101932		1-9	A	1	102069-1	1740-628-6797	9-1	X	1
		5-			102069-3	1740-614-6174	9-1	X	1
101938		10-36	M	1	102076-1		10-57	M1	1
		11-36					11-57		
101967	1740-568-0605	5-29	P1	4			12-66		
101968	1740-568-0606	5-33	P1	1	102076-2		15-		
		6-					10-57	M1	1
101969	1740-568-0607	6-9	P1	1			11-57		
101972-1	1740-568-0608	6-	P1	1			12-66		
101972-3	1740-614-6177	6-4	X1	1	102083	5355-519-3360	15-		
101979	1740-508-9944	5-25	P1	2			10-	P1	2
101981-1	1740-508-9945	5-36	P1	1			11-		
101981-3	1740-508-9946	5-37	P1	1			12-		
102012-1		15-1	M	1			13-		
102012-2		15-1	M	1			14-		
102013		10-76	P1	2	102083-3	5355-519-3360	10-54	P1	1
102014	1740-568-0614	10-103	P1	4			11-54		
102015	1740-568-0615	10-92	P1	2			12-63		
		11-98					13-64		
		12-107					14-76		
102016-1		10-65	M	1	102084		15-31	M	2
102016-2		10-66	M	1	102088	1740-568-0621	1-25	P1	2
102017		10-84	M	2			8-		
102018		10-79	M	2	102102		9-6	M	1
102024	1740-593-9958	15-	P1	2	102103	1740-588-6053	1-36	M	4
102024-3		15-29	M	2	102104		1-21	P1	8
102029-3	1740-568-9597	8-1	P1	2	102105-1	1740-568-9604	1-	P1	1
102029-5	1740-568-9598	6-1	P1	1	102105-13		1-78	P1	1
102033-1	1740-610-0399	1-47	X2	1	102105-14		1-78	P1	1
102033-3	1740-610-0401	1-47	X2	1	102105-15		1-84	P1	1
102034	1740-568-0616	1-	P1	4	102105-16		1-84	P1	1
102034-3		1-23	X1	4	102105-2	1740-568-9605	1-	P1	1
102035		1-17	M	4	102105-3	1740-568-9606	1-	P1	1
102036	1740-568-0617	1-22	P1	4	102105-4	1740-568-9607	1-	P1	1
102037	1740-568-9599	1-42	P1	1	102106	6700-149-138	1-53	P1	4
102038	1740-568-9600	1-45	P1	4	102107	5306-525-7277	8-	P1	1
102040	1740-568-9601	21-93	P1	4	102120	5315-576-0876	1-92	P1	4
					102125	1740-571-9275	SEE P/N P1 WSP11-417B		

Section III
Numerical Index

PART NO.	STOCK NO.	FIG. & INDEX NO.	SOURCE CODE	TOTAL QTY.
102132-1	1740-570-1434	21-	P1	2
102132-10	1740-570-1444	21-	P1	1
102132-2	1740-614-6175	21-	P1	2
102132-5		21-74	X	2
102132-6		21-74	X1	2
102132-7		21-81	X1	1
102132-8		21-81	X1	1
102132-9	1740-570-1436	21-	P1	1
102215	1740-570-1438	1-5	A	1
		3-		
102215-3		3-39	M	1
102247	1740-570-1471	21-75	P1	4
102248	5315-558-9644	21-87	P1	4
		21-91		
102249		3-44	M	1
102250	1740-540-8892	3-45	P1	2
102251	1740-610-0384	3-46	M	1
102252	1740-610-0385	3-	A	1
102253	1740-610-0386	3-41	M	1
102254-3	1740-589-9556	3-42	P1	2
		4-48		
102254-5	1740-589-9557	4-49	P1	1
102255	1740-610-6489	3-	A	1
102259	1740-610-6490	3-57	P1	1
102260	1740-610-6491	SEE P/N L120		
102272	1740-610-6492	3-55	P1	2
102273	1740-610-6488	3-	P	2
		4-		
102274		3-33		2
		4-33		
102275		3-34		2
		4-34		
102276	1740-613-0047	3-16	M	1
		4-16		
102278	1740-588-6054	3-22	P1	1
		4-22		
102279	1740-555-6301	3-28	P1	2
		3-37		
		4-28		
		4-37		
102281	1740-588-6055	3-15	P1	1
		4-15		
102282	1740-588-6056	3-23	P1	1
		4-23		
102286	1740-610-6493	1-1	P1	1
		2-		
102287	1740-610-6494	2-7	P1	1
102289	1740-612-4152	2-11	P1	1
102292	1740-613-0048	3-26	P1	1
		4-26		
102297	1740-576-7049	1-118	P1	2
102302	1740-576-1618	1-111	P1	1
102313	1740-610-6495	5-7	X1	2
102314	1740-571-1168	5-12	P1	2
102319	1740-540-5063	2-1	P1	1
102334	1740-613-0050	5-	P1	2
102349	5305-579-3979	1-13	P1	1
102363	1740-570-1473	10-34	P1	2
		10-41		
		11-34		
		11-41		
102364	1740-571-9276	23-21	P1	1
102365	1740-610-6499	3-54	P1	1
102366		1-33	P1	1
102378		3-56	P1	2
102379	1740-576-0378	1-113	P1	1
102676		2-	P1	2

PART NO.	STOCK NO.	FIG. & INDEX NO.	SOURCE CODE	TOTAL QTY.
102676-3		2-4	P1	1
102810		10-69	P1	2
102827	1740-576-0381	1-115	P1	3
102839	1740-610-6497	10-	P1	2
		11-		
		12-		
102839-5		10-3	M	2
		10-13		
		11-3		
		11-13		
		12-3		
		12-13		
102839-9		10-2	M	2
		10-12		
		11-2		
		11-12		
		12-2		
		12-12		
102842	1740-540-5161	2-9	P1	1
102877	5306-571-9278	8-6	P1	1
102927	5306-558-4557	3-24	P1	1
		4-24		
102956	1740-588-6057	1-60	P1	4
103006	1740-540-4641	21-25	P1	4
		22-		
103007	1740-588-6058	22-10	P1	4
103008	1740-588-6059	22-9	P1	4
103011	1730-670-7885	21-34	P1	4
103016	1740-576-0376	1-126	P1	1
103023	5330-558-2369	1-59	M	4
103032	1740-558-6060	23-34	P1	1
103043-1	1740-558-6061	21-28	P1	1
103043-2	1740-558-6062	21-28	P1	1
103044-1		11-66	P1	1
		12-75		
103044-2		11-67	P1	1
		12-76		
103048		SEE P/N 27200		
103061		11-73	P1	2
		12-82		
103072		11-71	P1	2
		12-80		
103074-1		11-94	P1	1
		12-103		
103074-2		11-95	P1	1
		12-104		
103075	5340-555-4942	11-65	P1	6
		12-74		
103169		21-31	P1	2
103226		12-33	M	1
103227		12-40	M	1
103336		12-35	M	1
103337		12-30	M	1
103338		12-43	M	1
103343-5	1740-554-8981	SEE P/N 3001C		
103343-7	1740-588-6063	12-46	P1	1
		13-47		
		14-59		
103343-8	1740-588-6064	12-46	P1	1
		13-47		
		14-59		
103344	1740-576-0380	1-130	P1	1
103350		1-54		1
		11-		1
103400	1740-594-7440	23-13	P1	1
103406	1730-605-4658	13-91	P1	4
		14-103		

Section III
Numerical Index

PART NO.	STOCK NO.	FIG. & INDEX NO.	SOURCE CODE	TOTAL QTY.
103463	1730-555-7043	2-6	P1	1
103466		SEE P/N 3620R3HQ2		
103483	1730-604-4348	13-30 14-30	P1	1
103484		13-36	M1	1
103485		13-28 14-28	P1	1
103486	1730-604-4349	13-32	P1	1
103656		23-15	P1	1
103657		9-5	P1	1
103658		1-54 12-		1
103666	1730-559-9569	1-120	P1	1
103680	1740-610-6496	1-5 4-	A	1
103680-3	6560-241000-752	4-39	M	1
103681	1740-786-7351	4-71	P1	1
103683	1740-588-6065	4-53	P1	1
103684	1740-588-6066	4-58	M	1
103686	1740-588-6067	4-61	P1	2
103687	1740-588-6068	4-46	P1	1
103688	1740-610-0397	4-	A	1
103689	1740-588-6069	4-52	P1	1
103690	1740-588-6070	4-50	P1	1
103691	5315-576-5565	4-51	P1	1
103714	1740-588-6071	23-12	P1	1
103724	1740-588-6073	4-	P1	1
103756	1740-588-6074	10- 11- 12- 13- 14-	P1	1
103757	1740-612-4149	10-50 11-50 12-59 13-57 14-69	X1	1
103758		10-49 11-49 12-58 13-56 14-68	X1	1
103770	5340-555-4943	4-57	P1	1
103802	1740-588-6075	1-33	P1	1
104131	5315-582-3979	4-41	P1	1
104132		4-42	X1	1
104187	1740-712-4151	23-	P1	1
104187-7		23-1	P1	1
104232	5315-311-9489	3-27 3-36 4-27 4-36	P1	2
104243	1740-576-0377	1-138	P1	1
104243-501		1-138		1
104246	4730-555-0887	13-35 13-39 14-38 14-45	P1	2
104273-1	1740-588-6076	5-36	P1	1
104273-19	1730-604-4352	5-36		1
104273-3	1740-588-6077	5-37	P1	1
104398	1740-576-0382	1-111	P1	1
104398-501		1-111		1
104401	1740-610-0398	1-1 2-	P1	1
104402	4710-555-9489	2-7	P1	1
104403	1740-588-6078	2-5	P1	1

PART NO.	STOCK NO.	FIG. & INDEX NO.	SOURCE CODE	TOTAL QTY.
104443	1730-607-6594	2-11	P1	1
104451	5315-558-9988	2-8	P1	1
1048WO	2540-528-7225	21-39	P1	1
104941		1-55	P1	2
104942-1		13-67 14-79 15-	P1	1
104942-2		13-67 14-79 15-	M	1
104943-1		15-1	M	1
104943-2		15-1	M	1
104944		SEE P/N WSP-DA-148		
104945	1740-786-7355	23-15	X	1
104946		13-41 14-47	P1	1
104947		13-73	M	2
104948-1		14-85 13-74	M	2
104948-3		14-86 13-81	M	2
104949-1	1730-670-7878	14-93 13-96	P1	2
104949-2	1730-670-7879	14-108 13-97 14-109	P1	2
104950		1-54	U	1
104950-501		13- 1-54		1
104952		13- SEE P/N A80292		
104964		11-128	P1	1
105160	1730-604-4353	5-33 7-	P1	1
105167-5		SEE P/N 3001E		
105220	1730-604-4354	7-	P1	1
105220-3		7-3	X1	1
105221		7-4	X1	1
105222	1730-627-5572	7-1	P	1
105223	5305-812-8098	5-34	M	2
105224	1740-786-7357	7-8	P1	1
105262	4820-604-0668	SEE P/N 3029		
105305	1740-588-6079	6-8 7-7	P	1
105754	MBAF1450-712-1142	4-15	P1	1
105766	1450-652-3124	4-50	P1	1
105767		4-	P1	1
105768		4-52	P2	1
106076-1		1-140	P1	1
106076-2		1-141	P1	1
106076-3		1-142	P1	1
106541-1		1-54		1
106553		14-39	P1	1
106554		14-32	P1	1
106700		1-		Ref
107044	1740-703-7862	3-	P1	2
107044-7		4- 3-10 4-14		1
107045	1740-703-7867	3-	P1	1
107045-9		4- 3-1 4-1	P1	1
107135		SEE P/N WSP-ROL 417		
107170-1		SEE P/N 51682L		
107170-2		SEE P/N 51682R		
109291		1-118		2

PART NO.	STOCK NO.	FIG. & INDEX NO.	SOURCE CODE	TOTAL QTY.	PART NO.	STOCK NO.	FIG. & INDEX NO.	SOURCE CODE	TOTAL QTY.
111405	1740-568-0623	21-13	P1	1	111527	1740-637-6758	1-128	P1	1
111406	1740-568-0624	21-13	P1	1	111530	1740-640-8225	21-33	P1	4
111407	1740-204-0159	21-25	P1	4	111531	5315-200-8834	21-24		2
		22-			111534	1740-568-9619	5-22	P1	4
111407-3	1740-522-3280	22-9	P1	4	111535	1740-568-9620	5-21	P1	4
111407-5	1740-522-3282	22-10	P1	4	111536	5315-664-5523	5-20	P1	4
111407-7	1740-522-3285	22-8	P1	4	111537	1740-568-9621	5-16	P1	4
111407-9	5310-639-7755	22-5	P1	8	111538-11		SEE		
111409	5340-545-4861	22-7	P1	4			P/N 1660-4-4-48		
111412-1	1740-640-8232	1-95	P1	8	111538-13		SEE		
111412-3	1740-537-2051	1-96	P1	8			P/N 16640-4-4-66		
111413-1	1740-568-0625	1-	P1	2	111538-33		SEE		
111413-2	1740-568-0626	1-	P1	2			P/N 1660-4-4-54		
111413-5		1-93	X1	1	111538-7		SEE		
111413-6		1-93	X1	1			P/N 1660-4-4-96		
111416	1740-568-0631	21-57	P1	8	111538-9		SEE		
		21-66					P/N 1660-4-4-114		
111417	1740-568-0632	21-58	P1	8	111542	1740-637-6761	1-136	P1	2
		21-67			111543	1740-568-9622	1-98	P1	2
111418	1740-568-0633	21-65	P1	2	111547	1740-637-6777	1-132	P1	4
111419-1	5307-545-4862	21-49	P1	4	111548	1740-638-5565	1-134	P1	4
111419-3	5307-545-6863	21-49	P1	4	111555	6700-988830	1-105	P1	4
111423-1	1740-568-0637	21-28	P1	1			18-10		
111423-2	1740-568-0638	21-28	P1	1	111556-3	5306-550-1099	18-16	P1	10
111424-1	1740-568-0639	21-	P1	2	111556-5	5306-550-1098	18-17		10
111424-2	1740-568-0640	21-	P1	2	12		3-4		24
111424-5		21-59	X1	2			3-8		
		21-68					3-13		
111424-6		21-59	X1	2			4-4		
		21-68					4-8		
111426	1740-568-0642	21-22	P2	1			4-12		
111431	1740-568-0645	23-34	P1	1			4-44		
111435	1740-568-0651	21-47	P1	16			5-10		
111436	1740-640-8231	21-60	P1	8			21-96		
		21-69					21-2		
111437-1	1740-568-0652	21-43	P1	2			21-9		
111437-3	1740-568-0653	21-43	P1	2	15123	3110-198-2169	18-12	P1	4
111438	1740-692-0315	21-62	P1	10	15245	3110-198-2170	18-11	P1	4
		21-71			1660-4-4-114	4720-541-6679	10-1	P1	1
		21-76					11-1		
		21-83					12-1		
111439-1	1740-568-0654	23-	P1	2			13-6		
111439-2	1740-568-0655	23-	P1	2			14-6		
111439-5		23-33	X1	1	1660-4-4-48	4720-541-6679	10-22	P1	1
111439-6		23-23	X1	1			11-23		
111451	5305-568-0662	8-11	P1	1			12-23		
111452	1740-568-0663	8-10	P1	1			13-13		
111454	1740-640-8229	23-32	P1	2			14-13		
111455	1740-537-2052	23-31	P1	2	1660-4-4-54	4720-555-1853	13-105	P1	2
111463	1740-640-8230	8-7	P1	2			14-117		
111470	5310-596-6809	8-9	P1	2	1660-4-4-66	4720-541-6680	10-23	P1	1
111471	1740-568-0672	21-34	P1	4			11-22		
111472	1740-568-0673	23-35	P1	1			12-22		
111474		23-1	M	2			13-1		
111475		1-70	M	2			14-1		
111476		1-61	A	2	1660-4-4-96	1740-541-6681	10-11	P1	1
		16-					11-11		
111476-11	1730-628-6794	16-	P1	2			12-11		
111476-3	1740-568-9614	16-1	P1	2			13-20		
111476-5	1740-568-9615	16-13	X1	2			14-20		
111476-7	1740-568-9616	16-2	P1	2	1725	5340-584-1492	13-106	P1	5
111476-9	1740-568-9617	16-14	P1	2			14-118		
111478-1	1740-568-0675	21-53	P1	2	22ND8-02	5310-488-8996	15-38	P1	4
111478-2	1740-568-0676	21-53	P1	2	24720	3110-100-0542	18-13	P1	4
111479	5330-641-3309	21-48	P1	8	24780	3110-100-3537	18-14	P1	4
111503	1740-637-6779	1-122	P1	1	250C-A	1730-441-3281	14-56		3
111504	1740-637-6772	1-124	P1	4	252S-457	4730-821-2235	14-57		2
111505		SEE P/N DU1-50 and DU1-562			252S-657		14-58	P1	1

Section III
Numerical Index

T.O. 35D3-3-34-4

PART NO.	STOCK NO.	FIG. & INDEX NO.	SOURCE CODE	TOTAL QTY.
27200	4820-601-2604	11-93	P1	2
		12-102		
3001C	1740-554-8981	12-51		1
3001C25	4320-609-3839	12-49	P1	2
		13-50		
		14-62		
3001E	4320-555-1505	13-52	P1	2
		14-64		
3027		10-81		4
		10-95		
		11-69		
		11-102		
		12-78		
		12-111		
3029	4820-604-0668	13-34	P1	2
		13-37		
		14-37		
		14-44		
3620R3HQ2	4820-593-3149	13-58	P1	1
		14-70		
50	4010-515-4101	3-40	P1	2
		4-40		
50049-12	2530-555-4713	19-12	P1	4
5008-112MO	5340-200-7549	6-5	P1	1
50824	4330-555-1299	12-36	P1	1
		13-44		
		14-50		
51267-2	2530-540-6304	19-2	P1	4
51267-5	2530-593-9810	19-3	P1	2
		20-5		
51279-40	2530-593-9809	19-5	P1	4
51284-1-1L		19-13	X1	1
51284-1-1R		19-13	X1	1

PART NO.	STOCK NO.	FIG. & INDEX NO.	SOURCE CODE	TOTAL QTY.
51284-1L	2530-588-4513	19-	P1	1
51284-1R	2530-588-4515	19-	P1	1
51284L	2530-540-2694	1-106	P1	1
		19-		
51284R	2530-540-2695	1-106		1
		19-		
51314-6	2530-528-7206	19-1		2
		20-1		
51327-36	2530-588-4506	19-8		2
51339-2	2530-588-4515	19-9		2
		20-8		
51402-36		20-7	P2	2
51496	2530-610-8725	20-6		2
51682-1-1L		20-11	X1	1
51682-1-1R		20-11	X1	1
51682-1L	2530-787-9857	20-	P2	1
51682-1R	2530-787-9858	20-		1
51682L		1-106	A	1
		20-		
51682R		1-106	A	1
		20-		
55007		20-4	P1	2
55008	1740-675-2101	20-3	P1	2
566-3		10-109	P1	3
		23-11		
6-4TRTX-S		10-75	P1	2
627-878-32A	2530-554-3144	19-11	P1	2
		20-10		
708-FS		14-34		2
		14-41		
8-4VTX-S	4730-541-8010	13-29	P1	1
		14-29		
825	5315-366-1938	21-7	P1	1

29 AUG 1966



T.O. 35D3-3-34-1

8 SEP 1966

TECHNICAL MANUAL
OPERATION, SERVICE and REPAIR INSTRUCTIONS

INSTALLATION AND REMOVAL TRAILER

MODELS 4000A AND 4000B

(AIR LOGISTICS)

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*A.....	6 May 66
i	31 Oct 63
ii.....	Original
1-1 thru 1-2	Original
1-1	Original
*1-2	6 May 66
1-3	31 Oct 63
1-4 thru 1-5	Original
1-6 Blank.....	Original
2-1 thru 2-3	Original
2-4 thru 2-5	31 Oct 63
2-6 thru 2-7	Original
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3-1	1 Mar 65
3-2 thru 3-3	Original
3-4	31 Oct 63
*3-4A	6 May 66
3-4B Blank	31 Oct 63
3-5	Original
3-6	31 Oct 63
3-7 thru 3-18	Original
3-18A Added.....	31 Oct 63
3-18B Blank	31 Oct 63
3-19 thru 3-24.....	Original
3-25	31 Oct 63
3-26 thru 3-27.....	Original
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TECHNICAL MANUAL
OPERATION, SERVICE AND REPAIR

INSTALLATION AND REMOVAL TRAILER
MODEL 4000A

FSN 1730-294-3397

(AIR LOGISTICS)

THIS PUBLICATION REPLACES T.O. 35D3-3-34-1 DATED 15 AUGUST 1957

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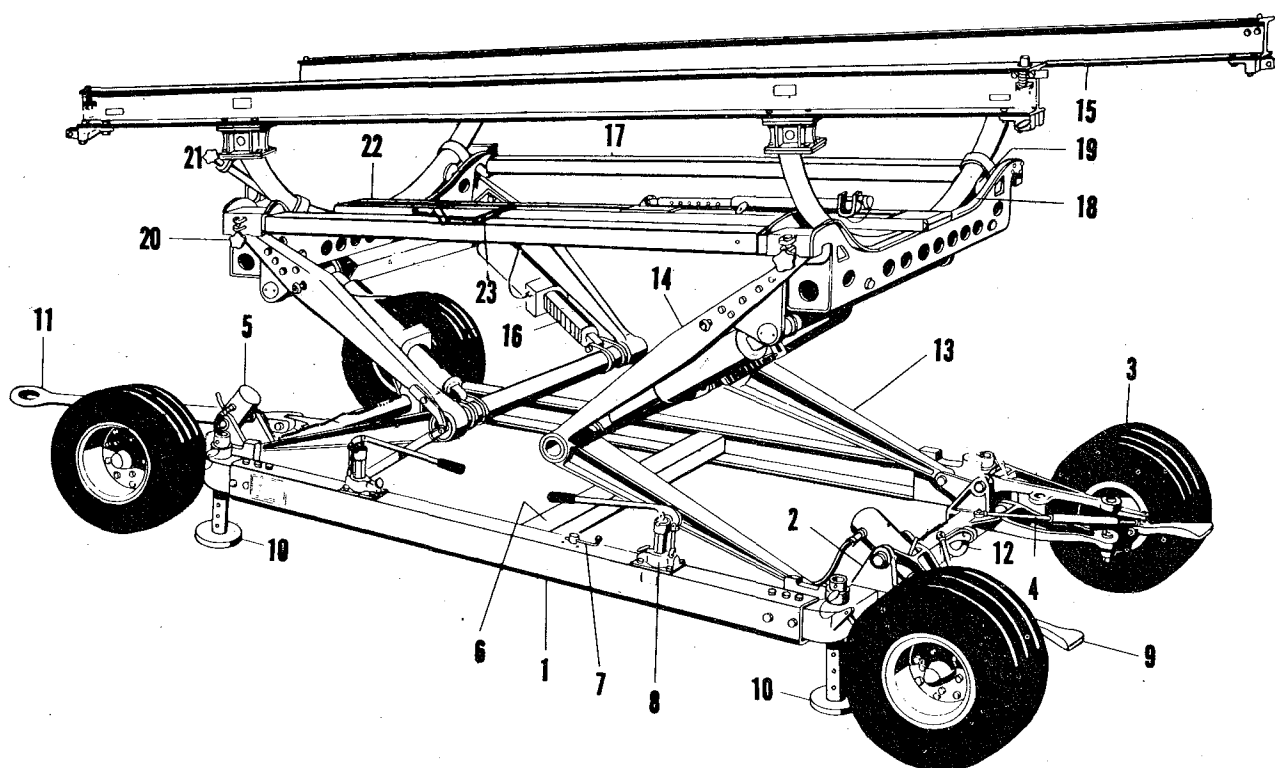
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TABLE OF CONTENTS

Section	Page	Section	Page
I INTRODUCTION	1-1	3-10. Disassembly Of Rotation Adjustment Assembly Serial Nos. 196 thru 1320	3-8
1-1. General	1-1	3-11. Disassembly Of Rotation Adjustment Assembly Serial Nos. 1321 and Subs.	3-8
1-3. Purpose	1-1	3-12. Disassembly Of Traverse Adjustment Assembly	3-9
1-5. Description	1-1	3-13. Disassembly Of Upper Frame Assembly	3-9
1-6. General	1-1	3-14. Removal And Disassembly Of Hydraulic Installation, Serial Nos. 196 thru 345	3-10
1-9. Detailed Description	1-1	3-15. Removal And Disassembly Of Hydraulic Installation, Serial Nos. 346 thru 520	3-12
1-10. Chassis Assembly	1-1	3-16. Removal And Disassembly Of Hydraulic Installation, Serial Nos. 521 thru 1320	3-14
1-12. Lift Linkage	1-1	3-17. Removal And Disassembly Of Hydraulic Installation, Serial Nos. 1321 and Subs.	3-16
1-14. Upper Frame, Cradle and Rail Assembly	1-1	3-18. Disassembly Of Hydraulic Lines Support Cover Assembly	3-18
1-16. Winch Assembly	1-1	3-19. Disassembly Of Connecting Rod Link	3-19
1-18. Hydraulic System, Serial Nos. 196 thru 1320	1-1	3-20. Disassembly Of Brake Pedal Assembly	3-19
1-20. Hydraulic System, Serial Nos. 1321 thru 10000	1-1	3-21. Disassembly Of Hub And Wheel Assembly	3-20
1-22. Hydraulic System, Serial Nos. 10001 thru 20000	1-2	3-22. Disassembly Of Brake Assembly	3-21
II OPERATION AND SERVICE INSTRUCTIONS		3-23. Disassembly Of Chassis Assembly	3-22
2-1. Preparation For Use	2-1	3-24. Disassembly Of Tierod Assembly	3-24
2-3. Operation	2-1	3-25. Disassembly Of Main Frame Assembly	3-24
2-4. Raise Main Frame	2-2	3-26. Inspection Repair And Replacement Of Parts	3-25
2-5. Lower Main Frame	2-2	3-27. Table Of Fits And Clearances	3-27
2-6. Raise Rails	2-2	3-28. Cleaning	3-26
2-7. Lower Rails	2-2	3-30. Lubrication At Reassembly	3-26
2-8. Hydraulic System Bleeding Instructions	2-2	3-31. Reassembly	3-26
2-9. Tilt Rails	2-3	3-32. General	3-26
2-10. Lateral And Yaw	2-3	3-34. Test After Assembly	3-26
2-11. Roll Rails	2-3	3-36. Winch Ratio Box Load Test	3-28
2-12. Lower Foot Assemblies	2-3	3-37. Winch Ratio Box Overload Clutch Adjustment	3-28
2-13. Component Removal and Installation	2-4	IV PREPARATION FOR SHIPMENT	
2-15. Load Transfer	2-4	4-1. Air Shipment	4-1
2-16. Towing	2-4	4-7. Truck Shipment, Long Distance	4-2
2-17. Periodic Lubrication	2-4	4-13. Truck Shipment, Short Distance	4-3
2-19. Periodic Inspection	2-4	4-21. Rail Shipment	4-4
2-21. Trouble Shooting	2-4		
2-22. Care of Trailer When Not In Use	2-4		
III REPAIR INSTRUCTION	3-1		
3-1. Disassembly	3-1		
3-2. General	3-1		
3-4. Disassembly Of Trailer	3-1		
3-6. Disassembly Of Winch Drive Assembly	3-4		
3-7. Disassembly of Winch Assembly Serial Nos. 196 thru 670	3-4		
3-8. Disassembly Of Winch Assembly Serial Nos. 671 and Subs	3-6		
3-9. Disassembly Of Transfer Rail And Frame Assembly	3-7		

LIST OF ILLUSTRATIONS

<i>Figure</i>	<i>Page</i>	<i>Figure</i>	<i>Page</i>
1-1. Installation And Removal Trailer, Model 4000A	iii	3-11. Hydraulic Installation, Serial Nos. 346 thru 520	3-13
1-2. Table Of Leading Particulars	1-2	3-12. Hydraulic Installation, Serial Nos. 521 thru 1320	3-15
1-3. Hydraulic System, Serial Nos. 196 thru 1320	1-3	3-13. Hydraulic Installation, Serial Nos. 1321 and Subs	3-17
1-4. Hydraulic System, Serial Nos. 1321 thru 10000	1-3	3-14. Hydraulic Lines Support Cover Assembly	3-18
1-5. Hydraulic System, Serial Nos. 10001 thru 20000	1-4	3-15. Connecting Rod	3-19
2-1. Operation	2-1	3-16. Brake Pedal Assembly	3-19
2-2. Load Transfer	2-3	3-17. Wheel, Hub, Tire And Tube Assembly	3-20
2-3. Lubrication Chart	2-5	3-18. Brake Assembly, Serial Nos. 196 thru 1620	3-21
2-4. Periodic Inspection Table	2-6	3-19. Brake Assembly, Serial Nos. 1 thru 20000	3-21
2-5. Trouble Shooting Chart	2-6	3-20. Chassis Assembly	3-23
3-1. Installation And Removal Trailer, Model 4000A	3-3	3-21. Steering Tierod Assembly	3-24
3-2. Winch Drive Assembly		3-22. Main Frame Assembly	3-24
3-3. Winch Assembly, Serial Nos. 196 thru 670	3-5	3-23. Table Of Fits And Clearances	3-25
3-4. Winch Assembly, Serial Nos. 671 and Subs	3-6	3-24. Lift Test	3-26
3-5. Frame And Transfer Rail Assembly	3-7	3-25. Check Valve Test	3-27
3-6. Rotation Adjustment Assembly, Serial Nos. 196 thru 1320	3-8	3-26. Winch Patio Overload Test	3-27
3-7. Rotation Adjustment Assembly, Serial Nos. 1321 and Subs	3-8	4-1. Tie-Down For Air Shipment	4-1
3-8. Traverse Adjustment Assembly	3-9	4-2. Tie-Down For Truck Shipment — Long Distance	4-2
3-9. Upper Frame Assembly	3-9	4-3. Tie-Down For Truck Shipment — Short Distance	4-3
3-10. Hydraulic Installation, Serial Nos. 196 thru 345	3-11	4-4. Tie-Down For Rail Shipment	4-4



- | | | | |
|-----------------------------|-------------------|------------------------------|----------------------------------|
| 1. Main Frame | 8. Handpump | 14. Upper Link | 20. Traverse Adjustment Assembly |
| 2. Support Arm | 9. Foot Brake | 15. Tube and Rail Assembly | 21. Rotation Adjustment Assembly |
| 3. Wheels | 10. Foot Assembly | 16. Frame Lift Hydraulic Ram | 22. Winch Assembly |
| 4. Tierod Assembly | 11. Towbar | 17. Upper Frame Assembly | 23. Winch Drive Assembly |
| 5. Wheel Lift Hydraulic Ram | 12. Pintle Hook | 18. Cradle Assembly | |
| 6. Reservoir | 13. Lower Link | 19. Roller Assembly | |
| 7. Selector Valve | | | |

Figure 1-1. Installation and Removal Trailer, Model 4000A

SECTION I

INTRODUCTION

1-1. GENERAL.

1-2. This handbook is the basic handbook of Operation, Service and Repair covering Installation and Removal Trailer, Model 4000A, manufactured by Air Logistics Corporation, Pasadena, California.

1-3. PURPOSE.

1-4. The purpose of the model 4000A Trailer is to facilitate an expedient safe method of removal, transfer and installation of heavy aircraft components and other comparable equipment.

1-5. DESCRIPTION. (See figure 1-1.)

1-6. GENERAL.

1-7. The model 4000A Trailer is a four wheel mobile, hydraulically controlled self-supporting unit. No special tools or power source is required for operation. The trailer consists essentially of a set of rails connected to an elevating main frame by a hydraulically controlled linkage system. The main frame is supported by four wheels. A towbar forward and a pintle hook aft provide means of transporting the trailers singularly or in train.

1-8. Coupling assemblies are provided at rail ends to facilitate load transference from the Model 4000A to other elements of the Air Logistics ground handling system.

1-9. DETAILED DESCRIPTION. (See figure 1-1.)

1-10. CHASSIS ASSEMBLY.

1-11. The chassis assembly consists of a main frame (1) supported by hydraulically controlled wheel support arms (2), four wheels (3), and tierod assemblies (4). The hydraulically controlled wheel support arms (2) are operated by wheel lift rams (5). A ratchet and pawl system is provided on wheel lift rams to provide maximum safety at any position. The hydraulic oil reservoir (6) is located in the main frame center section. The selector valve (7) and handpumps (8) are located on the main frame side rail. Foot brakes (9) are provided on the rear wheels. Foot assemblies (10) are provided to facilitate absolute static position during critical operations. A towbar (11) and a pintle hook (12) provide a means of transport, singularly or in train.

Note

Trailers bearing serial numbers 196 through 10000 have two wheel lift rams. Trailers bearing serial numbers 10001 through 20000 have four wheel lift rams.

1-12. LIFT LINKAGE.

1-13. Lift linkage consists of four lower links (13) and four upper links (14). The four lower links are hinged to the four corners of the main frame assembly (1). The upper links (14) and lower links (13) are centrally hinged in a jack-knife position and are raised and lowered by means of frame lift rams (16). A ratchet and pawl system is provided on lift rams for maximum safety.

1-14. UPPER FRAME, CRADLE AND RAIL ASSEMBLY.

1-15. The forward and aft ends of the upper frame assembly (17) house the cradle assemblies (18). Each cradle assembly houses two roller assemblies (19) upon which the tube and rail assembly rolls. Traverse adjustment assembly (20) provides lateral and yaw movement of the rails and rotation adjustment assembly (21) provides rail rotation adjustment.

1-16. WINCH ASSEMBLY.

1-17. A winch assembly (22) and winch drive assembly (23) are provided to facilitate moving a load onto the trailer when the rails are in an inclined position.

1-18. HYDRAULIC SYSTEM, SERIAL NUMBERS 196 THROUGH 1320. (See figure 1-3.)

Note

For trailers bearing serial numbers 1321 through 10000 see figure 1-4.
For trailers bearing serial numbers 10001 through 20000 see figure 1-5.

1-19. The hydraulic system consists of four hydraulic rams (1) which raise and lower the upper frame assembly, two wheel lifting hydraulic rams (2) which raise and lower the main frame, two handpumps (3) which operate the hydraulic rams by selection made by the selector valve (4), main reservoir (5) and upper reservoir (6) which contain the hydraulic fluid supply, and connecting pressure lines and fittings.

1-20. HYDRAULIC SYSTEM, SERIAL NUMBERS 1321 THROUGH 10000. (See figure 1-4.)

Note

For trailers bearing serial numbers 196 through 1320 see figure 1-3.
For trailers bearing serial numbers 10001 through 20000 see figure 1-5.

1-21. The hydraulic system consists of four hydraulic rams (1) which raise and lower the upper frame assembly, two wheel lifting hydraulic rams (2) which raise and lower the main frame, two handpumps (3) which operate the hydraulic rams by selection made by the selector valve (4), a hydraulic reservoir (5) containing the hydraulic fluid and supply, and connecting lines and fittings.

**1-22. HYDRAULIC SYSTEM, SERIAL NUMBERS
10001 THROUGH 20000.** (See figure 1-5.)

Note

For trailers bearing serial numbers 196 through 1320 see figure 1-3.

For trailers bearing serial numbers 1321 through 10000 see figure 1-4.

1-23. The hydraulic system consists of four hydraulic rams (1) which raise and lower the upper frame assembly, four wheel lifting hydraulic rams (2) which raise and lower the main frame, two handpumps (3) which operate the hydraulic rams, by selection, made by the selector valve (4), a hydraulic reservoir (5) containing the hydraulic fluid supply, and connecting lines and fittings.

MOBILITY DATA

TYPE I CLASS 2 MOBILITY PER MIL-M-8090

Maximum Load 8000 pounds
Towing Speed 5 MPH Max
Tire Inflation 80 psig

TYPE II MOBILITY PER MIL-M-8090

Maximum Load 6000 pounds
Towing Speed 20 MPH Max
Tire Inflation 100 psig
Turning Radius 14 ft. Min

GENERAL

Tire Size 6.00 x 9
Trailer Weight
Serial Nos. 196 through 10000 2525 pounds
Serial Nos. 10001 and subs. 2575 pounds
Hydraulic Relief Pressure Setting 4500 psig
Clearance Radius 20 ft.

POSITIONING DATA

Rotation ± 10 degrees
Lateral ± 3 inches
Tilt ± 10 degrees
Yaw ± 2.25 degrees
Elevation 32 to 84 inches with spacers
25 to 77 inches without spacers

DIMENSIONAL DATA

Wheel Base 126 inches
Tread 72 inches
Rails Center to Center 48 inches
Rail Width 3.33 inches
Rail Length 152 inches

Figure 1-2. Table of Leading Particulars

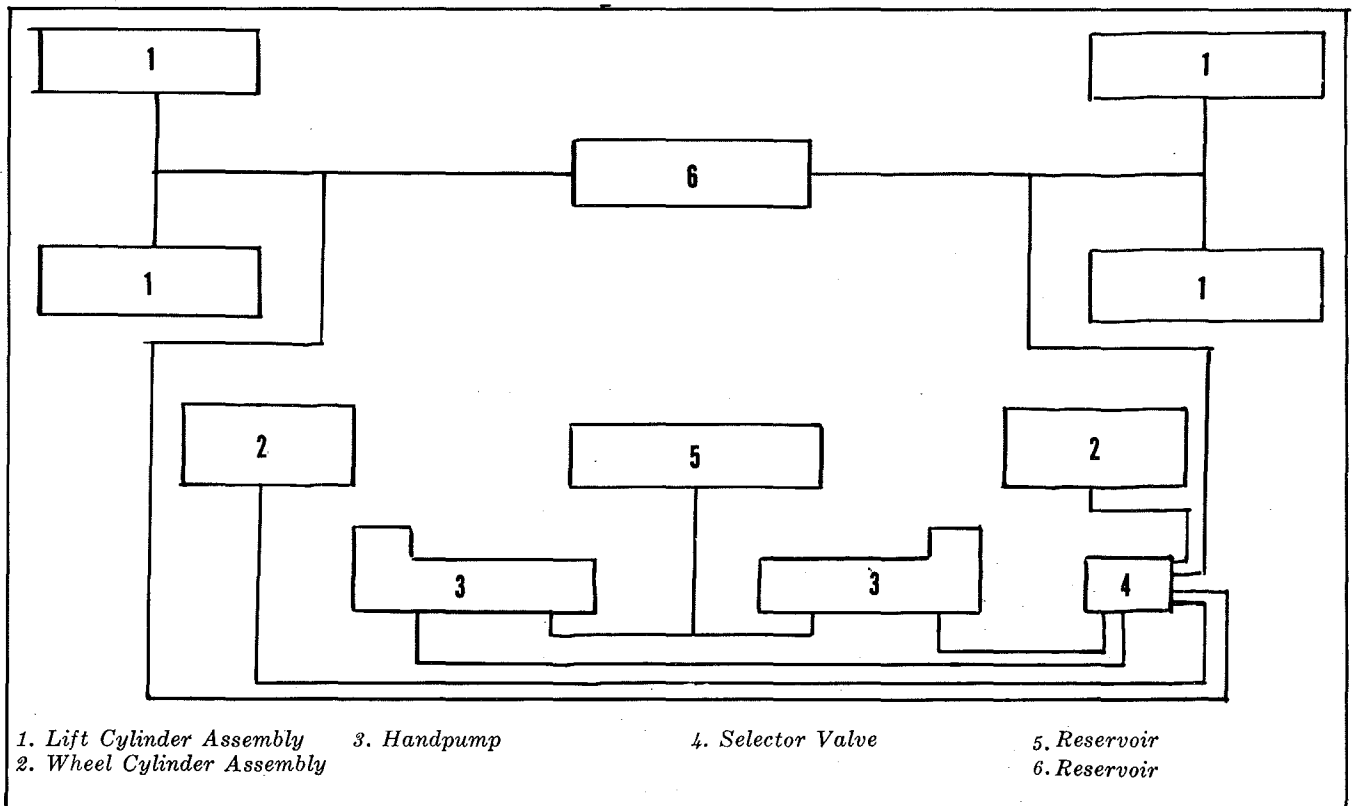


Figure 1-3. Hydraulic System

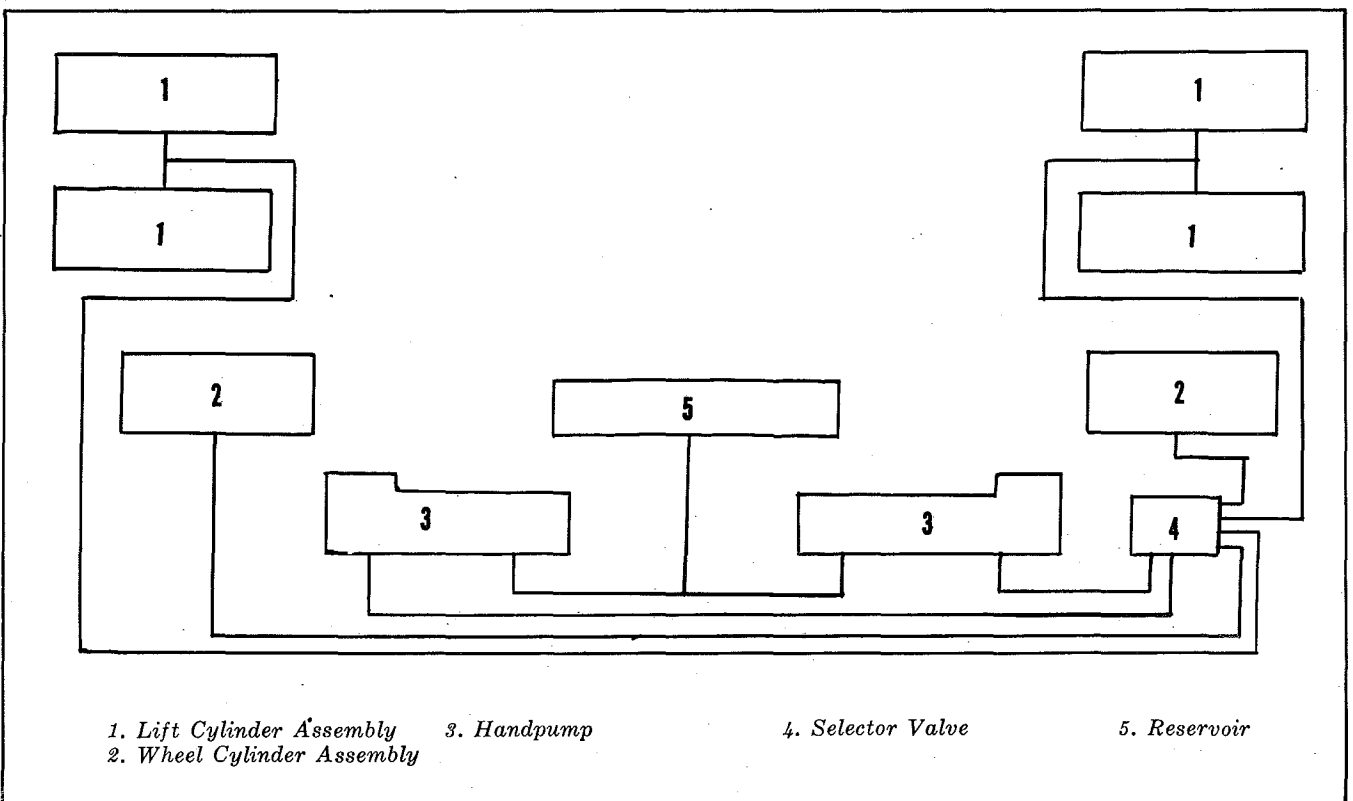
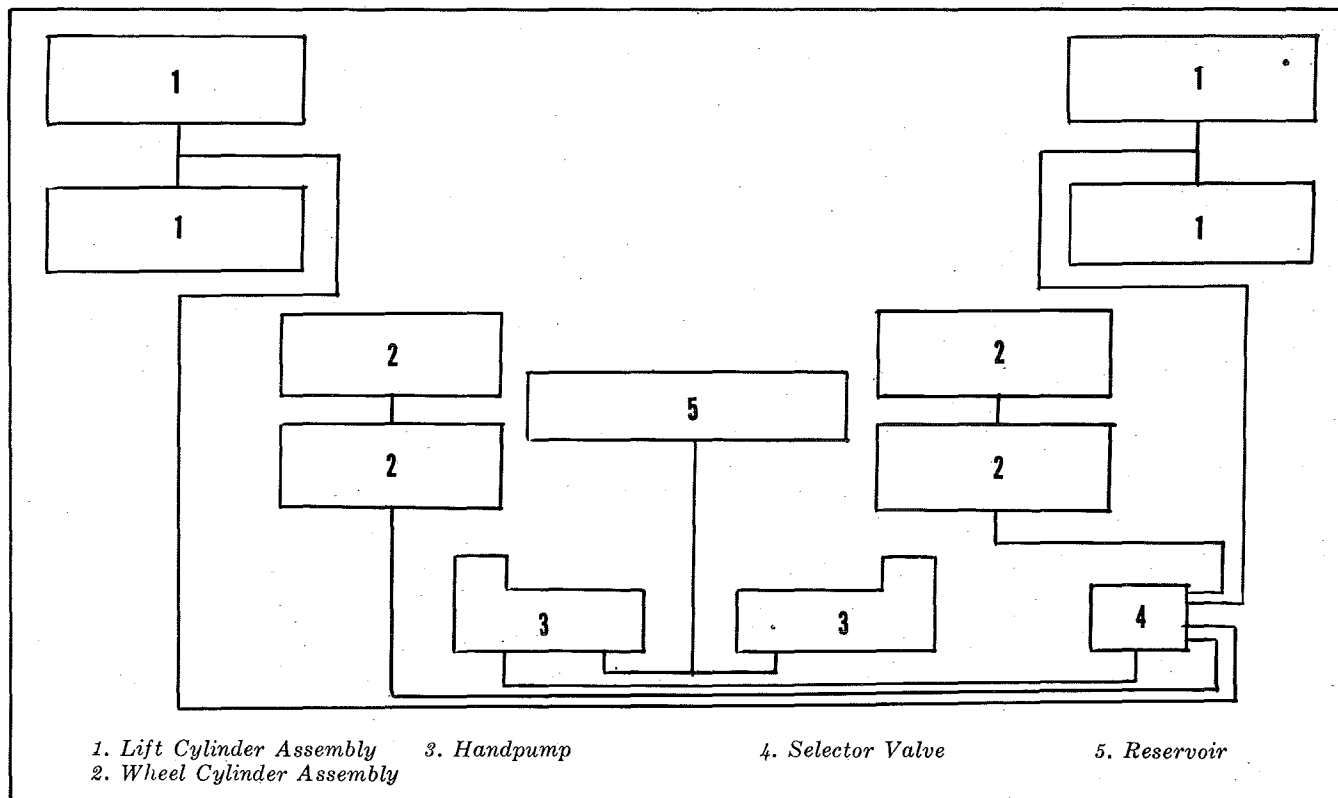


Figure 1-4. Hydraulic System

**Figure 1-5. Hydraulic System**

SECTION II

OPERATION AND SERVICE INSTRUCTIONS

2-1. PREPARATION FOR USE.

2-2. If trailer is crated remove crate and prepare for use as follows:

- a. Remove sides and top of crate.
- b. Assemble the towbar to the towbar link with the attached hinge pin and associated washers and cotter pins.
- c. Check hydraulic fluid level in reservoir, refill if necessary to a depth of 3 inches (with trailer in transportation position). MIL-H-5606 is system fluid.

Note

On trailers equipped with upper reservoir, serial numbers 196 through 1320, check fluid level and, if necessary, refill to within 1/2 inch of the fill plug opening.
When received from the manufacturer, the

hydraulic system is filled with hydraulic preservative oil, MIL-H-6083 which is compatible with the system fluid and need not be replaced.

d. Check all pressure lines for damage and fittings for tightness.

e. Following operating instructions, paragraph 2-4., raise main frame from crate, release foot brakes and roll trailer clear of crate bottom.

CAUTION

If trailer has been stored for prolonged periods, conduct test procedure per paragraph 3-34.

2-3. OPERATION. (See figure 2-1.)

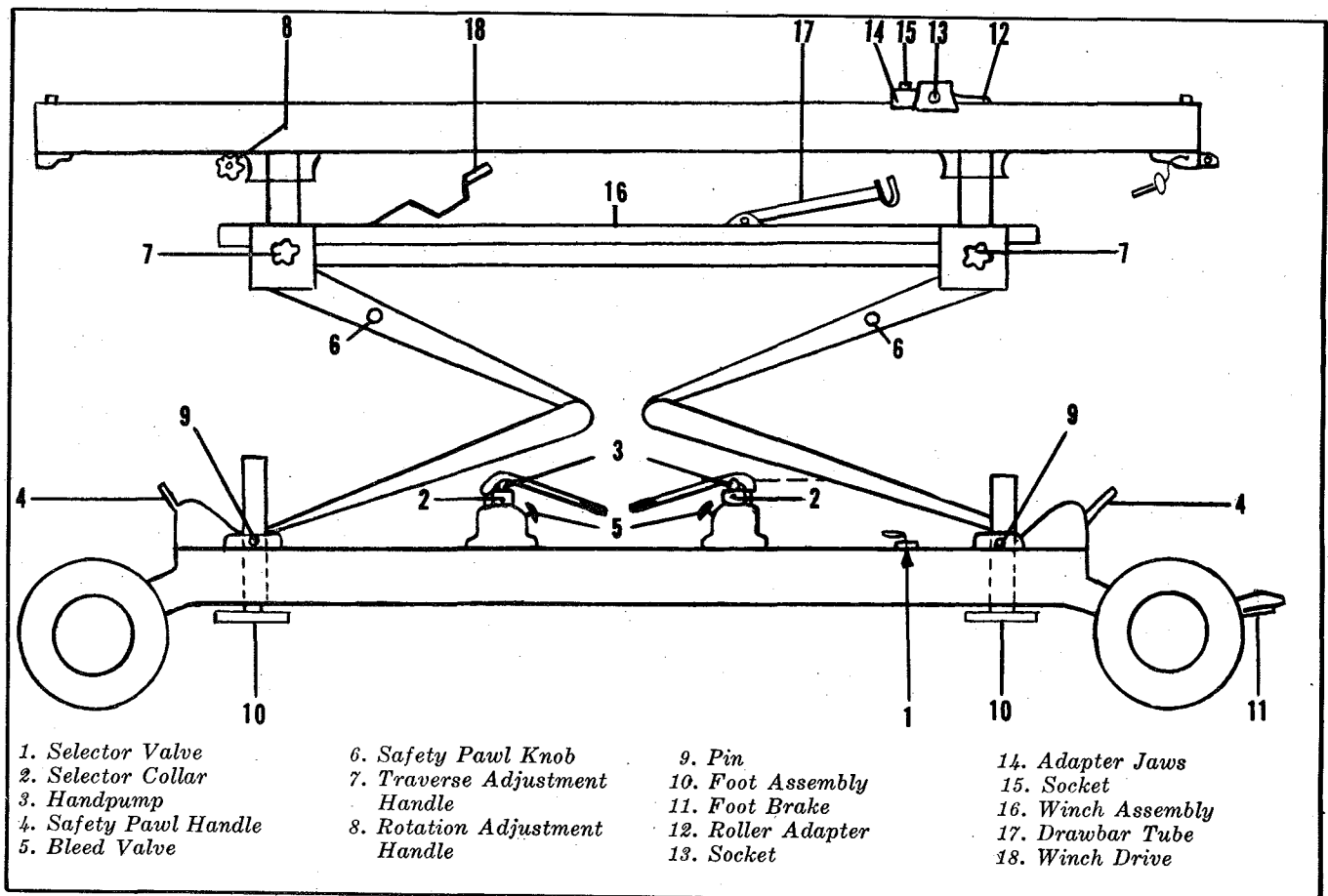


Figure 2-1. Operation

Note

If hydraulic action does not function properly, bleed system in accordance with paragraph 2-8.

2-4. RAISE MAIN FRAME.

- a. Turn selector valve (1) to "WHEEL CYLINDER" position.
- b. Turn pump selector collars (2) for heavy or light load.

Note

Operation (b) is not required for trailers bearing serial numbers 521 and subsequent.

- c. Close pump by-pass valves (5).

Note

On trailers bearing serial numbers 196 through 520 the by-pass valve knobs (5) are located on the base of the hand pump (3). On trailers bearing serial numbers 521 and subsequent the by-pass valve knobs are located on the top of the main frame side channel next to the pump handles.

- d. Raise main frame by operating two hand pumps (3) simultaneously.

2-5. LOWER MAIN FRAME.

- a. With selector valve (1) set at "WHEEL CYLINDER" position, release the two safety pawls by pulling handles (4).

Note

Safety pawls must be in disengaged position during entire lowering procedure. If pawls will not readily disengage, raise the main frame slightly.

- b. Lower main frame by opening by-pass valves (5). Amount valves are opened controls the rate of descent. When desired height is obtained turn by-pass valve knobs to fully closed position.

2-6. RAISE RAILS.

Note

The rail position adjustment is universal and any combination of positions may be accomplished within the limits described in the Leading Particulars, Figure 1-2.

- a. Position selector valve (1) at "LIFT CYLINDER" position.

- b. Position pump selector collars (2) for heavy or light load.

Note

Operation (b) is not required for trailers bearing serial numbers 521 and subsequent.

- c. Raise rails to desired position by operating two handpumps simultaneously.

2-7. LOWER RAILS.

- a. With selector valve at "LIFT CYLINDER" position, release two safety pawls by pulling knobs (6).
- b. Lower main frame by opening by-pass valves (5). Amount valves are opened controls the rate of descent. When desired height is obtained turn by-pass valve knobs to fully closed position.

2-8. HYDRAULIC SYSTEM

BLEEDING INSTRUCTIONS. (See figure 1-1.)

- a. To bleed upper frame lift cylinders (16):
 1. Set selector valve (7) to "lift cylinder" position.
 2. Close by-pass valves of hand pumps (8).

Note

On trailers bearing serial numbers 196 through 520, by-pass valve knob is located on the base of the hand pump.

On trailers bearing serial numbers 521 and subsequent, the by-pass valve knob is located on top of main frame side channel next to pump handle.

3. Raise rails to full height by operating hand pumps.
4. Crack upper bleed plug on head of any lift cylinder (16).
5. Bleed until hydraulic fluid shows no bubbles. Work pump handle 3 or 4 strokes to clear lines.
6. Tighten bleed plug.
7. Repeat for other three frame lifting cylinders.
- b. To bleed wheel lifting cylinders (82, figure 3-20):
 1. Set selector valve (7) to "wheel cylinder" position.
 2. Close by-pass valves of hand pumps (8).

Note

On trailers bearing serial numbers 196 through 520, by-pass valve knob is located on the base of the hand pump.

On trailers bearing serial numbers 521 and subsequent, the by-pass valve knobs are located on the top of the main frame side channel next to the pump handles

3. Raise main frame to full height by operating the hand pumps.

4. Crack bleed plug at head of one cylinder, on the side of cylinder opposite the hydraulic inlet line.

Note

On trailers bearing serial numbers 10001 through 20000, equipped with four wheel lift cylinders, bleed only those two cylinders located on the trailer side opposite the hand pumps.

5. Bleed until hydraulic fluid shows no bubbles. Work pump handles 3 or 4 times to clear lines.

6. Tighten bleed plug.

7. Repeat for other wheel lifting cylinder at other end of trailer.

c. Fully lower upper frame and transfer rails and lower main frame to transportation position. Refill reservoir (6) to within 3 inches of the top of the filler tube with hydraulic fluid, MIL-H-5606.

Note

Trailers bearing serial numbers 196 through 1320 have an upper reservoir which must be filled to within 1/2 inch of the bottom of the filler plug.

2-9. TILT RAILS.

a. To tilt rails, the fore and aft ends shall be raised and lowered individually. Follow procedures for raising and lowering rails, paragraph 2-6. and 2-7.

CAUTION

1. Rail angle must not exceed 10 degrees.
2. Use extreme caution while tilting rails when main frame is in low position, Aft linkage must not touch ground.
3. If aft linkage inadvertently touches ground, slowly back off forward by-pass valve until rails are level; then raise rails evenly until high enough for tilt angle.

2-10. LATERAL AND YAW. (See figure 2-1.)

a. Lateral movement of rails is accomplished by rotation of traverse adjustment handles (7). Yaw adjustment is accomplished by individual operation of adjustment handles (7).

CAUTION

Do not force adjustment beyond initial resistance.

2-11. ROLL RAILS.

a. Roll adjustment is accomplished by turning rotation adjustment handle (8).

2-12. LOWER FOOT ASSEMBLIES.

- a. Pull pin (9) and lower foot assembly (10) to lowest position where pin can be replaced.
- b. Follow procedure for lowering main frame, para-

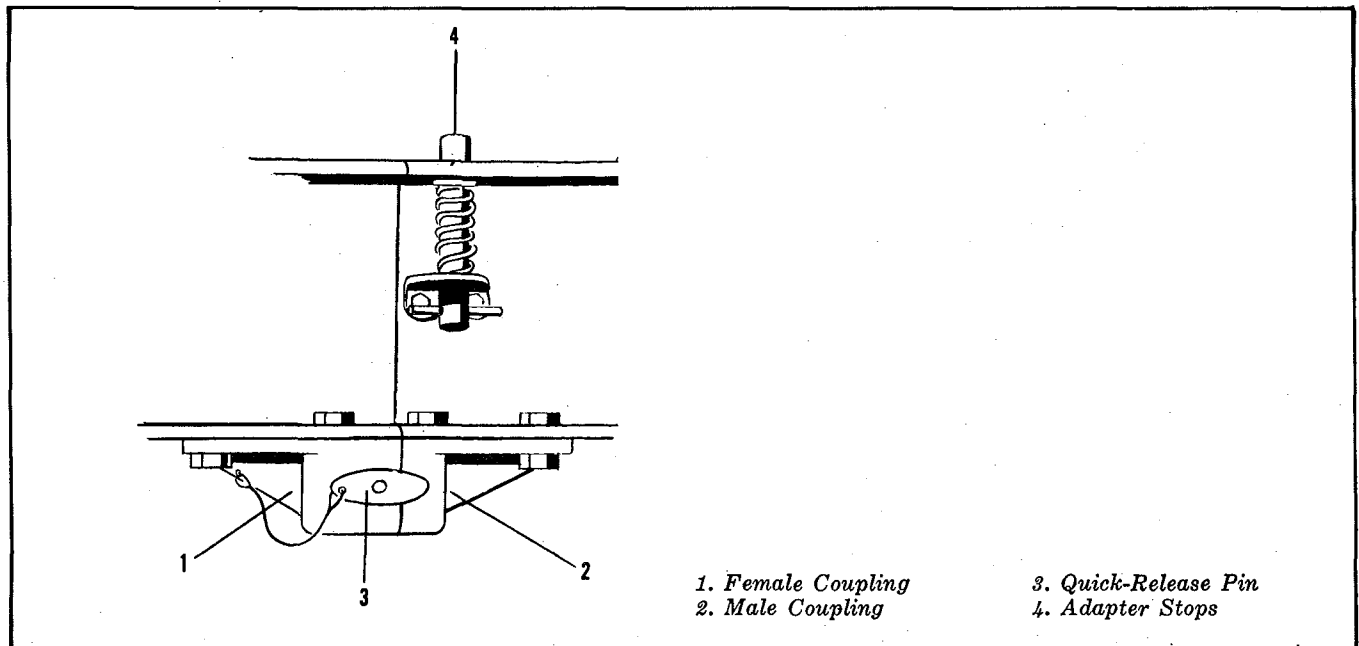


Figure 2-2. Load Transfer

graph 2-5, until foot assemblies make firm contact with floor or ground.

2-13. COMPONENT REMOVAL AND INSTALLATION. (See figure 2-1.)

2-14. Details of component removal and installation vary with each application but the following general notes shall be followed.

a. If operation requires accuracy in positioning, stabilize trailer by lowering foot assemblies (10). If foot assemblies are not used, set foot brakes (11).

b. When installing roller adapters (12) back off at (13) until jaws (14) will straddle rail flange.

Note

Roller adapters (12) are accessory equipment and are mentioned in this publication for reference only.

c. To remove component horizontally, roll component and supporting adapter assemblies into position on trailer rails with 1/2 inch socket drive at location (15).

d. For inclined removal of component, secure to winch assembly (16) by means of adapter which installs in draw-bar tube (17).

e. Eliminate slack from linkage by rotation of winch drive (18) and accomplish removal of component with winch.

Note

Winch incorporated on Trailers, Serial Nos. 671 and subsequent have a quick release assembly. Operation of quick release lever will disengage comb assembly from winch chain permitting free sliding action of slider assembly. Trailers, Serial Nos. 196 through 670 do not incorporate the quick release assembly. Movement of slider assembly must be accomplished with winch drive assembly.

WARNING

Make certain roller adapters are in locked position before disconnecting drawbar or moving Trailer.

f. Before moving away with loaded trailer, observe number nameplate on component adapter and position left roller adapter with corresponding number on transfer rail to properly locate center of gravity of load on trailer.

WARNING

Center of gravity of load must not move beyond limit position indicated on rails unless rail ends are adequately supported.

2-15. LOAD TRANSFER. (See figure 2-2.)

a. Adjust rails to a level height that squarely matches rails of receiving trailer.

b. Secure couplings (1 and 2) with lock-pin (3).

c. Unlock roller adapters and roll load onto receiving trailer. Stops (4) must be held down to allow passage of roller adapter.

d. Lock roller adapters after positioning center of gravity of load.

e. To disconnect trailers adjust rail height of positioning trailer until quick-release pin (3) can be removed by hand.

2-16. TOWING.

a. Make certain roller adapters are secure.

b. Center lateral and rotational adjustment.

c. Lower rails until upper frame pads rest on lower frame pads.

d. Raise main frame to maximum height.

e. Check Leading Particulars for tire pressures and towing speeds.

2-17. PERIODIC LUBRICATION. (See figure 2-3.)

2-18. Frequency of lubrication and lubricants to be used at specific areas are as noted on "Lubrication Chart".

2-19. PERIODIC INSPECTION. (See figure 2-4.)

2-20. Areas and frequency of inspection shall be as listed in Periodic Inspection Table.

2-21. TROUBLE SHOOTING. (See figure 2-5.)

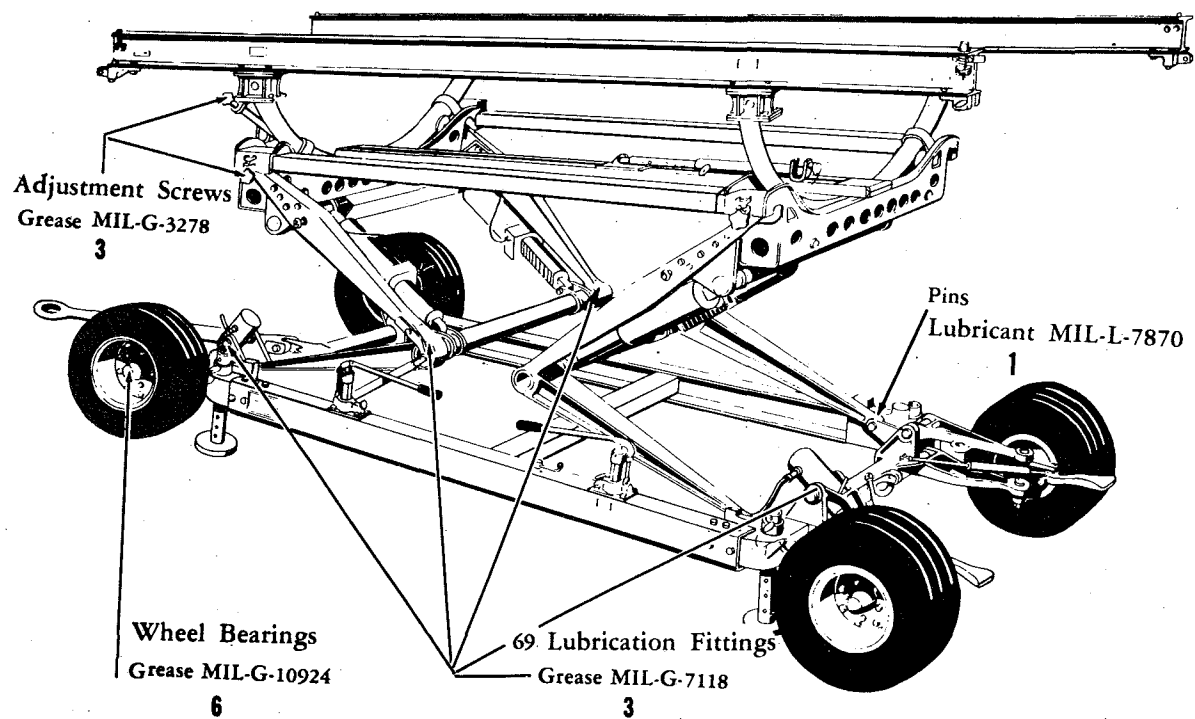
2-22. CARE OF TRAILER WHEN NOT IN USE.

2-23. When trailer is not in use, lower to extreme low position.

2-24. For prolonged periods of storage, park in comparatively dust free area and cover with tarp.

CAUTION

If trailer has been stored for prolonged periods, conduct test procedure per paragraph 3-34 prior to use.

Figure 2-3. Lubrication Chart

ITEM	WEEKLY	MONTHLY	QUARTERLY
TIRES: for damage and pressure	X		
WHEELS: for security		X	
BRAKE ASSEMBLIES: for proper braking action		X	
TOWBAR: for security and condition of hinge pin			X
STEERING LINKAGE: for damage, distortion, loose connections and excessive wear			X
PINTLE HOOK: for security			X
HYDRAULIC SYSTEM: for sufficient oil supply, damaged lines and evidences of external leakage at cylinders, valves and fittings	X		
LIFT LINK ASSEMBLIES: for damage, distortion, excessive wear and security at hinge points			X
CYLINDER ASSEMBLIES: for proper lift action		X	
RATCHET AND PAWL ASSEMBLIES: for proper operation		X	
PUMP ASSEMBLIES: for equally efficient and proper operation			X
WINCH ASSEMBLY: for condition of chain and security of drawbar		X	
ATTACHING HARDWARE: for condition and tightness			X
LUBRICATION FITTINGS: for damage and obstruction			X

Figure 2-4. Periodic Inspection Table

TROUBLE	PROBABLE CAUSE	REMEDY
Improper lift action	Insufficient hydraulic oil supply	Add hydraulic oil
	Leakage at pressure lines or fittings	Replace broken lines with new and tighten fittings
	Worn hydraulic rams or pumps	Replace with new or overhaul worn assemblies
	Dirt obstructing pumps or hydraulic lines	Clean as necessary
	Air in hydraulic lines	Bleed lines. See paragraph 2-8.
	Worn hinge pins, bearings and bushings	Replace excessively worn hinge pins, bearing and bushings with new
	Distorted link assembly	Straighten or replace distorted link assembly with new

Figure 2-5. Trouble Shooting

TROUBLE	PROBABLE CAUSE	REMEDY
	Loose attaching parts	Tighten attaching parts
Slow settling from elevated position with ratchet and pawl assemblies disengaged.	Leakage in the hydraulic system or air in the pressure lines	Repair area of leakage Bleed system per paragraph 2-8.
With ratchet and pawl assemblies engaged.	Worn or damaged pawl	Replace pawl with new
	Broken pawl cable	Replace cable with new
Improper traverse and roll action	Damaged or disconnected adjustment assembly	Repair, replace or correct adjustment assembly
	Obstruction in the cradle or damaged roller assembly	Locate and remove obstruction. Replace or repair roller assembly
Brake failure	Worn linings	Replace shoe and lining assemblies with new
	Brake pedal pawl or spring broken, or pawl is not engaging properly with brake sector	Replace pawl or spring with new as necessary
	Brake pedal assembly slipping on shaft	Tighten pedal assembly
	Brake shoe spring broken	Replace brake shoe spring with new
Improper winch action	Broken chain assembly	Repair chain
	Sheared sprocket shaft	Replace sprocket shaft with new
	Sheared pin in winch drive assembly	Replace sheared pin
	Slider comb improperly engaged (Trailers, Serial Nos. 671 and subsequent)	Check slider assembly for improper comb engagement or damage
	Improper gear box overload clutch action	Check clutch adjustment and adjust if necessary per paragraph 3-36, 3-37
Shimmy while towing	Low tire	Check tire inflation
	Bent wheel	Replace wheel
	Worn or distorted steering linkage or tierods	Straighten, repair or replace distorted parts
	Loose or worn spindle balls	Tighten or replace spindle balls and retainers
	Main frame out of alignment	Align or replace parts of main frame as necessary
Side sway while towing	Bent or disconnected tie rods	Repair tie rod
	Wheels out of alignment	Check alignment of wheels and for excessive tow-in
	Shifting load	Secure load
	Bent or loose towbar	Repair, tighten or replace towbar

Figure 2-5. Trouble Shooting (Cont.)

SECTION III

REPAIR INSTRUCTIONS

3-1. DISASSEMBLY. (See figures 3-1 through 3-22.)

3-2. GENERAL.

3-3. Disassemble the trailer in the general order of index numbers assigned to the exploded view illustration, paying particular attention to the following general procedures and precautions:

WARNING

Block linkage before removing pawl and ratchet assemblies on lift link and wheel cylinder rams.

a. Removal of press-fit bushings is not required unless clearance between the bushing and mating parts is in excess of maximum clearances specified in figure 3-23, Table of Fits and Clearances.

3-4. DISASSEMBLY OF TRAILER. (See figure 3-1.)

3-5. Disassemble in the order of index numbers assigned to the exploded view illustration paying particular attention to the following:

Note

Indexes (59, 60, 112 and 113) apply to Trailers, Serial Nos. 196 through 1320 only. Indexes (129 and 130) apply to Trailers, Serial Nos. 521 and subsequent only. Indexes

(135 and 136) apply to Trailers, Serial Nos. 196 through 520 only.

a. Raise main frame of chassis assembly (109) to maximum height. Lower and secure four foot assemblies (91), figure 20.

b. Raise upper frame assembly (48) to convenient working height.

WARNING

Make certain safety pawls are securely locked before bleeding hydraulic lines.

c. Bleed hydraulic lines by opening bleed valves on pump assemblies.

WARNING

Securely block linkage and make certain foot assemblies are secure before removal of hydraulic rams.

d. Removal of nameplates and attaching parts, indexes (110 through 138) is not required unless nameplates are defaced beyond legibility.

KEY TO FIGURE 3-1

1. Drive Assembly	40. Washer	76. Bearing	*112. Upper Reservoir Instruction Plate
2. Nut	41. Screw	77. Link	*113. Screw
3. Bolt	42. Traverse Adjustment Bracket	78. Cotter Pin	114. Lubrication Instruction Plate
4. Spring Pin	43. Nut	79. Nut	115. Screw
5. Winch Assembly	44. Screw	80. Washer	116. Screw
6. Bolt	45. Cradle Support Pin	81. Bolt	117. Load Transfer Instruction Plate
7. Nut	46. Cotter Pin	82. Lubrication Fitting	118. Screw
8. Washer	47. Upper Cradle Assembly	83. Link	119. Selector Valve Instruction plate
9. Frame Assembly	48. Upper Frame Assembly	84. Lower Lift Linkage Tube Assembly	120. Screw
10. Cotter Pin	49. Cotter Pin	85. Nut	121. Caution Instruction plate
11. Nut	50. Nut	86. Washer	122. Screw
12. Washer	51. Washer	87. Bolt	123. Tire Inflation Instruction plate
13. Screw	52. Bolt	88. Bolt	124. Screw
14. Nut	53. Bushing	89. Cotter Pin	125. Towing Speed Instruction plate
15. Washer	54. Hydraulic Installation	90. Washer	126. Screw
16. Screw	55. Upper Lift Tube Assembly	91. Pin	127. Hydraulic Reservoir Instruction plate
17. Retaining Strap	56. Nut	92. Lift Link	128. Screw
18. Bushing	57. Washer	93. Lubrication Fitting	129. Winch Instruction Plate
19. Screw	58. Bolt	94. Bushing	130. Screw
20. Washer	*59. Upper Lift Tube Gasket	95. Bushing	131. Tie Down Instruction plate
21. Retaining Washer	*60. Upper Lift Tube Plug	96. Brake Pedal Assembly	132. Screw
22. Roller Pin	61. Connecting Rod	97. Brake Sector	133. Tie Down Instruction plate
23. Roller	62. Cotter Pin	98. Screw	134. Screw
24. Sleeve Bearing	63. Nut	99. Washer	135. Pump Instruction plate
25. Adjustment Assembly	64. Washer	100. Wheel Hub Grease Cap	136. Screw
26. Cotter Pin	65. Clevis Bolt	101. Wheel, Hub, Tire & Tube Assembly	137. Identification Plate
27. Nut	66. Cotter Pin	102. Cotter Pin	138. Screw
28. Washer	67. Nut	103. Nut	
29. Bolt	68. Washer	104. Washer	
30. Bushing	69. Bolt	105. Brake Assembly	
31. Cotter Pin	70. Spacer	106. Nut	
32. Nut	71. Cotter Pin	107. Washer	
33. Winch Crank Bracket	72. Nut	108. Bolt	
34. Screw	73. Washer	109. Chassis Assembly	
35. Nut	74. Bolt	110. Instruction Plate	
36. Cradle Retaining Strap	75. Lubrication Fitting	111. Screw	
37. Bolt			
38. Washer			
39. Nut			

*Trailers, Serial Numbers 196 through 1320 Only

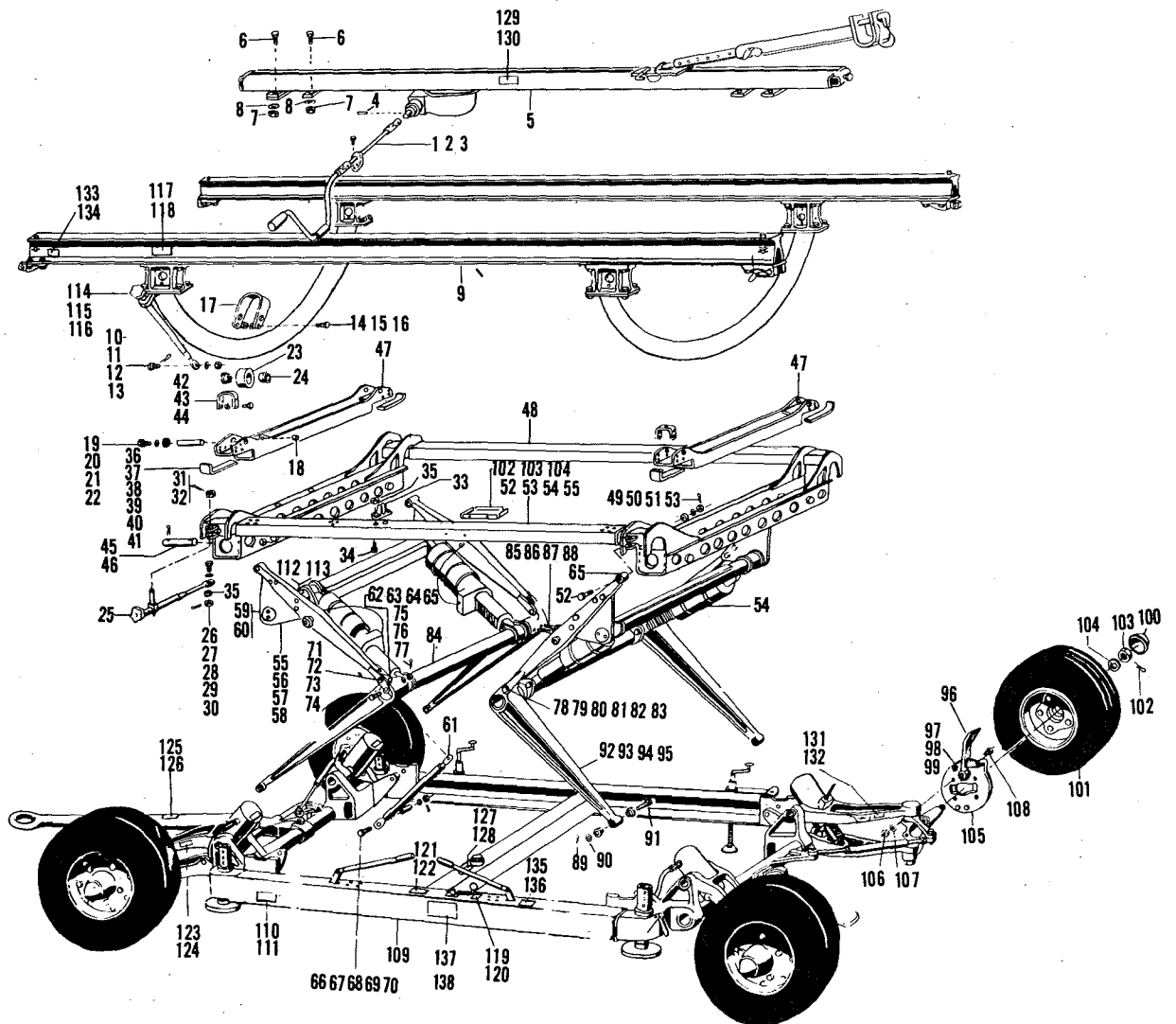


Figure 3-1. Installation and Removal Trailer, Model 4000A

3-6. DISASSEMBLY OF WINCH

DRIVE ASSEMBLY. (See figure 3-2.)

- a. Unless visual inspection reveals sheared pins (2, 8, and 10) or bent torque tube (7) and crank assembly (11), disassembly is not required.

Note

Disassemble in the order of index numbers assigned to the exploded view illustration except indexes (3 and 4) apply to Trailers bearing Serial Nos. 196 through 670. Indexes 5, and 6) apply to Serial Nos. 671 and subsequent only.

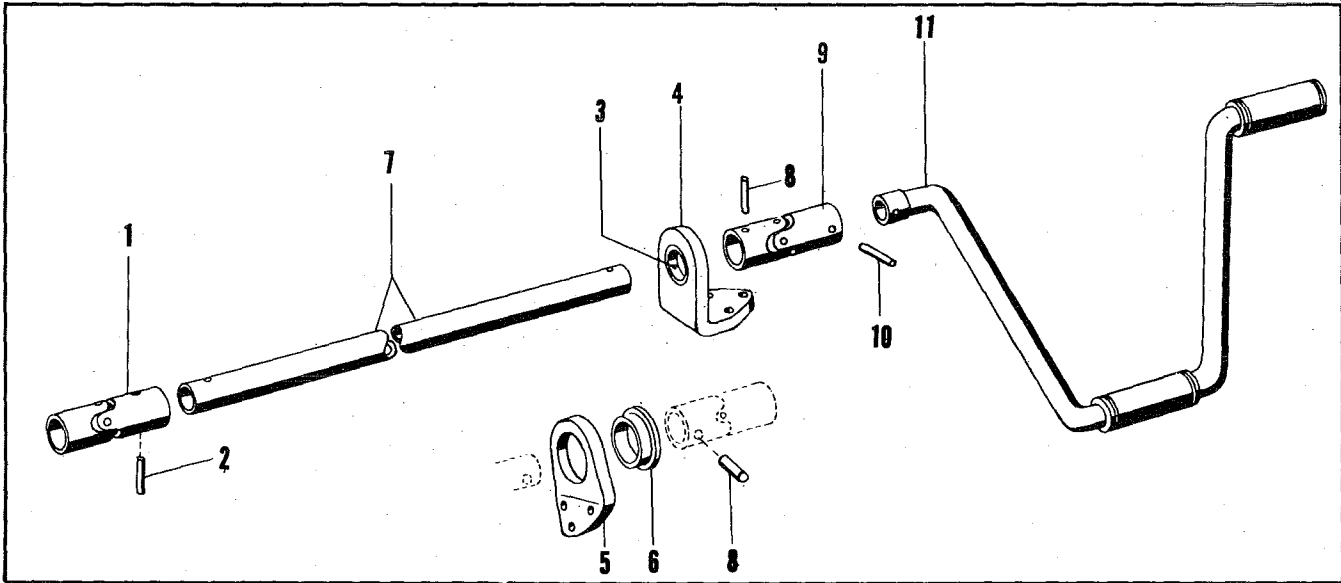


Figure 3-2. Winch Drive Assembly

- | | | | |
|--------------------|------------|--------------------|--------------------|
| 1. Universal Joint | 4. Bracket | 7. Torque Tube | 10. Spring Pin |
| 2. Spring Pin | 5. Bracket | 8. Spring Pin | 11. Crank Assembly |
| 3. Bearing | 6. Bushing | 9. Universal Joint | |

3-7. DISASSEMBLY OF WINCH ASSEMBLY.

(See figure 3-3.)

- a. Disassembly is in order of index numbers assigned to the exploded view illustration.

Note

Figure 3-3., applies to Trailers, Serial Nos. 196 through 670. Refer to figure 3-4 for Trailers, Serial Nos. 671 and subsequent.

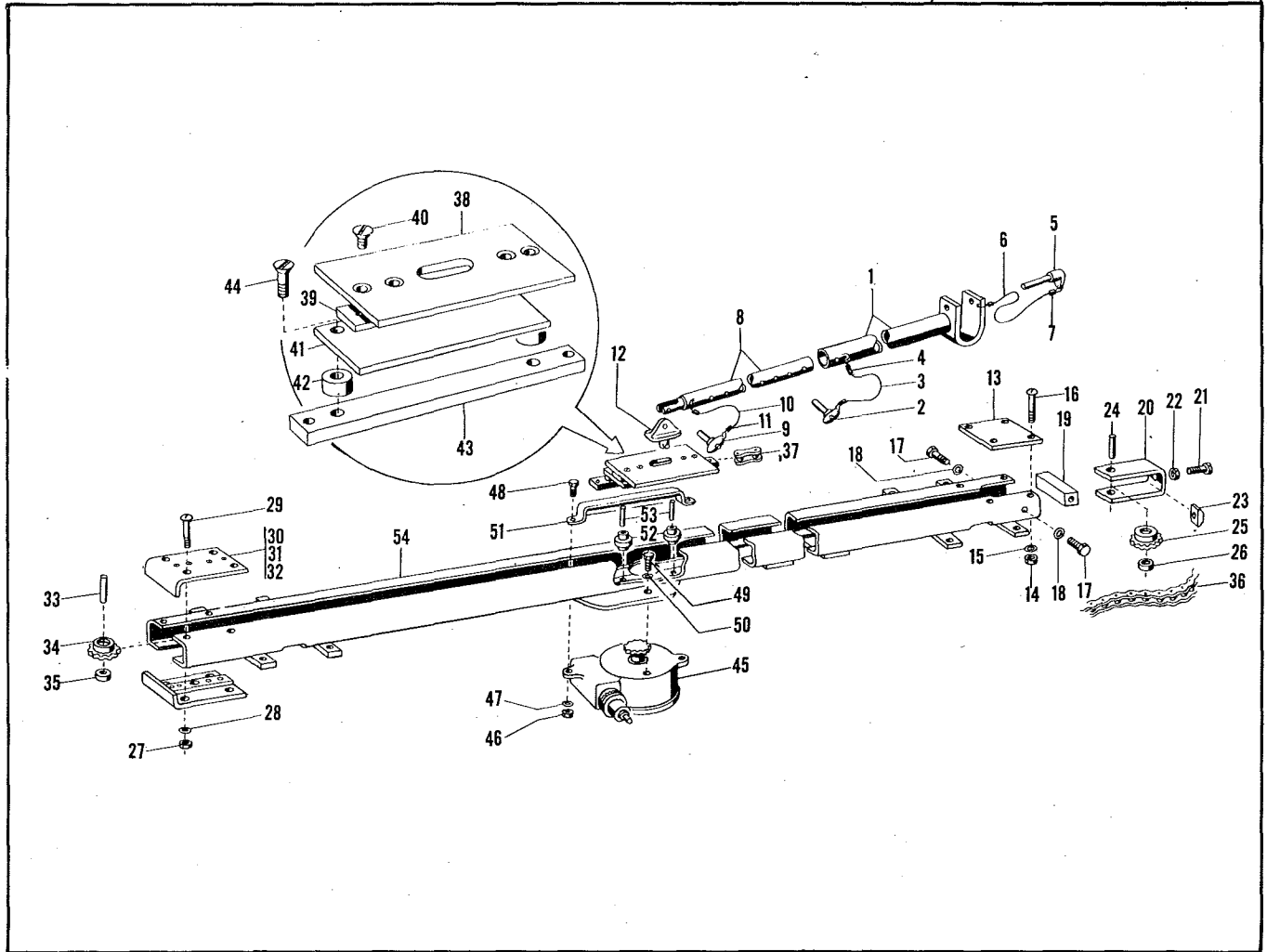


Figure 3-3. Winch Assembly

- | | | | |
|----------------------|--------------------|-----------------------|-----------------------------------|
| 1. Tube | 15. Washer | 29. Bolt | 43. Bar |
| 2. Quick Release Pin | 16. Clevis Bolt | 30. Head Plate | 44. Screw |
| 3. Cable | 17. Bolt | 31. Head Plate Spacer | 45. Speed Decreaser Gear Assembly |
| 4. Sleeve | 18. Washer | 32. Rivet | 46. Nut |
| 5. Quick Release Pin | 19. Spacer | 33. Sprocket Shaft | 47. Washer |
| 6. Cable | 20. Take Up Yoke | 34. Sprocket | 48. Bolt |
| 7. Sleeve | 21. Tension Bolt | 35. Bearing | 49. Bolt |
| 8. Tube Assembly | 22. Nut | 36. Roller Chain | 50. Washer |
| 9. Quick Release Pin | 23. Adjust Nut | 37. Connecting Link | 51. Sprocket Cover |
| 10. Cable | 24. Sprocket Shaft | 38. Slide Plate | 52. Idler |
| 11. Sleeve | 25. Sprocket | 39. Slider Guide | 53. Idler Pin |
| 12. Draw Bar Fitting | 26. Bearing | 40. Screw | 54. Rail Assembly |
| 13. Cover Plate | 27. Nut | 41. Plate | |
| 14. Nut | 28. Washer | 42. Spacer | |

3-8. DISASSEMBLY OF WINCH ASSEMBLY.

(See figure 3-4.)

a. Disassembly is in the order of index number assigned to the exploded view illustration.

Note

Figure 3-4., applies to Trailers, Serial Nos. 671 and subsequent. See figure 3-3., for Trailers, Serial Nos. 196 through 670.

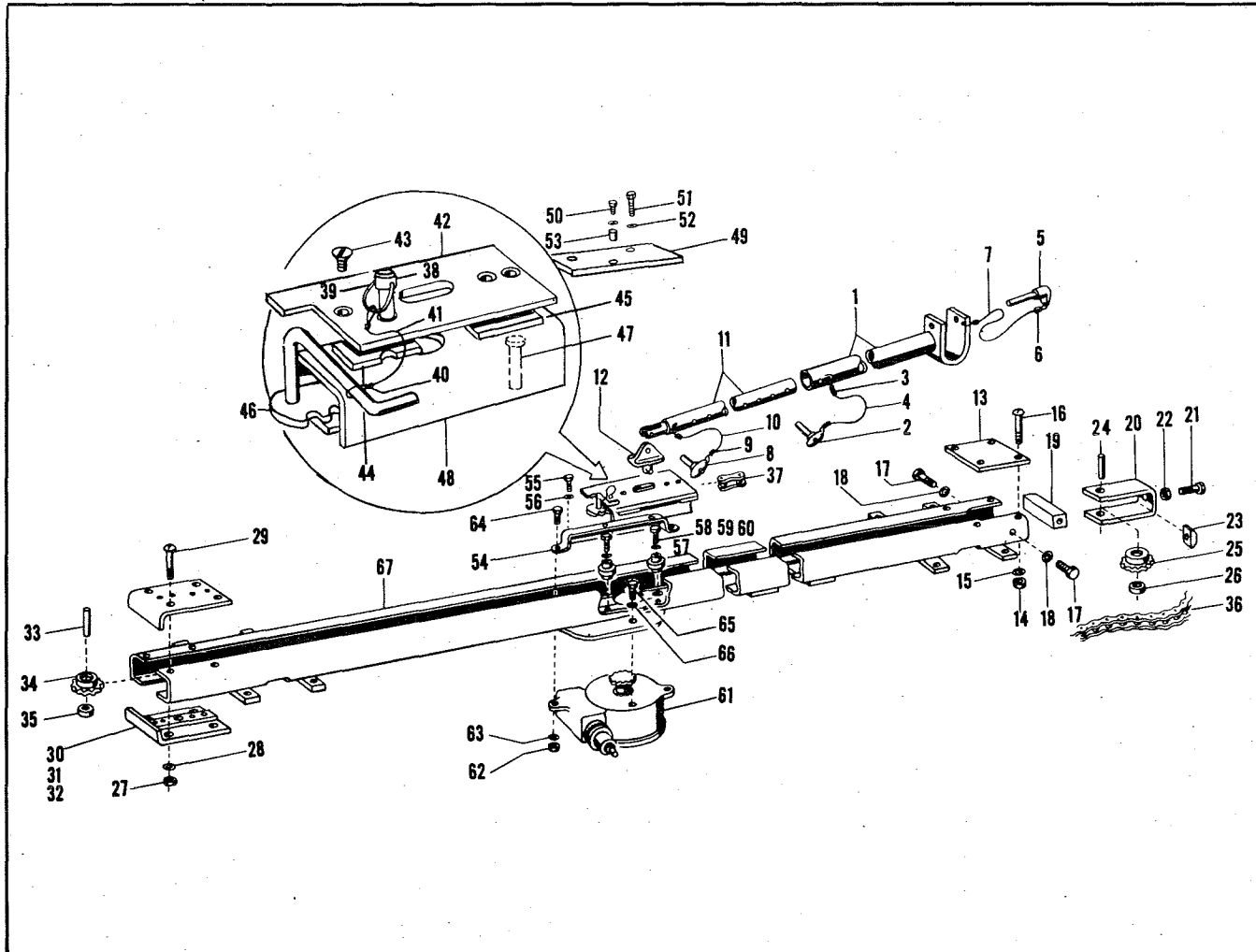


Figure 3-4. Winch Assembly

- | | | | |
|----------------------|-----------------------|-----------------------------------|-------------------|
| 1. Tube | 18. Washer | 35. Bearing | 62. Nut |
| 2. Quick-Release Pin | 19. Yoke Spacer | 36. Roller Chain | 63. Washer |
| 3. Sleeve | 20. Take Up Yoke | 37. Connecting Link | 64. Bolt |
| 4. Cable | 21. Adjust Bolt | 38. Pin | 65. Bolt |
| 5. Quick-Release Pin | 22. Nut | 39. Ring | 66. Washer |
| 6. Sleeve | 23. Adjust Nut | 40. Sleeve | 67. Rail Assembly |
| 7. Cable | 24. Sprocket Shaft | 41. Cable | |
| 8. Quick-Release Pin | 25. End Sprocket | 42. Top Plate | |
| 9. Sleeve | 26. Bearing | 43. Screw | |
| 10. Cable | 27. Nut | 44. Slider Guide | |
| 11. Tube Assembly | 28. Washer | 45. Guide | |
| 12. Drawbar Fitting | 29. Bolt | 46. Comb Assembly | |
| 13. End Cover Plate | 30. Head Plate | 47. Pivot Pin | |
| 14. Nut | 31. Head Plate Spacer | 48. Bottom Plate Assembly | |
| 15. Washer | 32. Pivot | 49. Ratio Box Cover | |
| 16. Clevis Bolt | 33. Sprocket Shaft | 50. Bolt | |
| 17. Bolt | 34. Sprocket | 51. Bolt | |
| | | 52. Washer | |
| | | 53. Spacer | |
| | | 54. Idler Bracket | |
| | | 55. Bolt | |
| | | 56. Washer | |
| | | 57. Idler | |
| | | 58. Bolt | |
| | | 59. Washer | |
| | | 60. Washer | |
| | | 61. Speed Decreaser Gear Assembly | |

**3-9. DISASSEMBLY OF TRANSFER RAIL
AND FRAME ASSEMBLY.** (See figure 3-5.)

a. Disassembly is in the order of index numbers assigned to the exploded view illustration.

Note

Index (34) applies to Trailer bearing Serial Nos. 1321 and subsequent only.

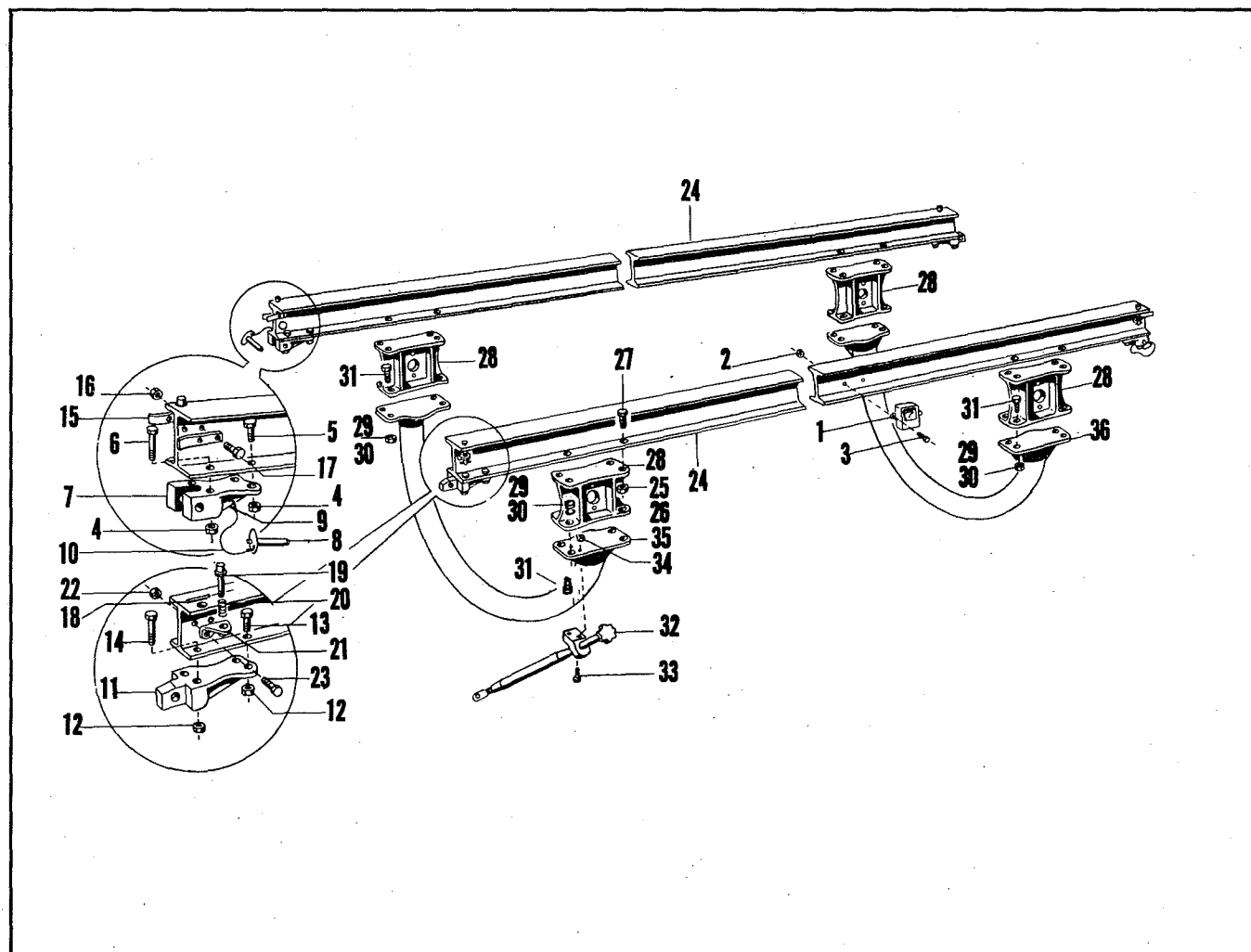


Figure 3-5. Frame and Transfer Rail Assembly

- | | | | |
|----------------------|---------------------|-----------------------|----------------------------------|
| 1. Tilt Indicator | 11. Male Coupling | 20. Stop Spring | 29. Nut |
| 2. Nut | 12. Nut | 21. Stop Bracket | 30. Washer |
| 3. Screw | 13. Bolt | 22. Nut | 31. Bolt |
| 4. Nut | 14. Bolt | 23. Bolt | 32. Rotation Adjustment Assembly |
| 5. Bolt | 15. Rail Guide Clip | 24. Transfer Rail | 33. Screw |
| 6. Bolt | 16. Nut | 25. Nut | 34. Nut |
| 7. Female Coupling | 17. Bolt | 26. Washer | 35. Tube Assembly Fwd |
| 8. Quick-Release Pin | 18. Spring Pin | 27. Bolt | 36. Tube Assembly Aft |
| 9. Sleeve | 19. Stop Pin | 28. Rail Spacer Block | |
| 10. Cable | | | |

**3-10. DISASSEMBLY OF ROTATION
ADJUSTMENT ASSEMBLY.** (See figure 3-6.)

a. Disassembly is in the order of index numbers assigned to the exploded view illustration.

Note

Figure 3-6., applies to Trailers, Serial Nos. 196 through 1320. See figure 3-7., for Trailers, Serial Nos. 1321 and subsequent.

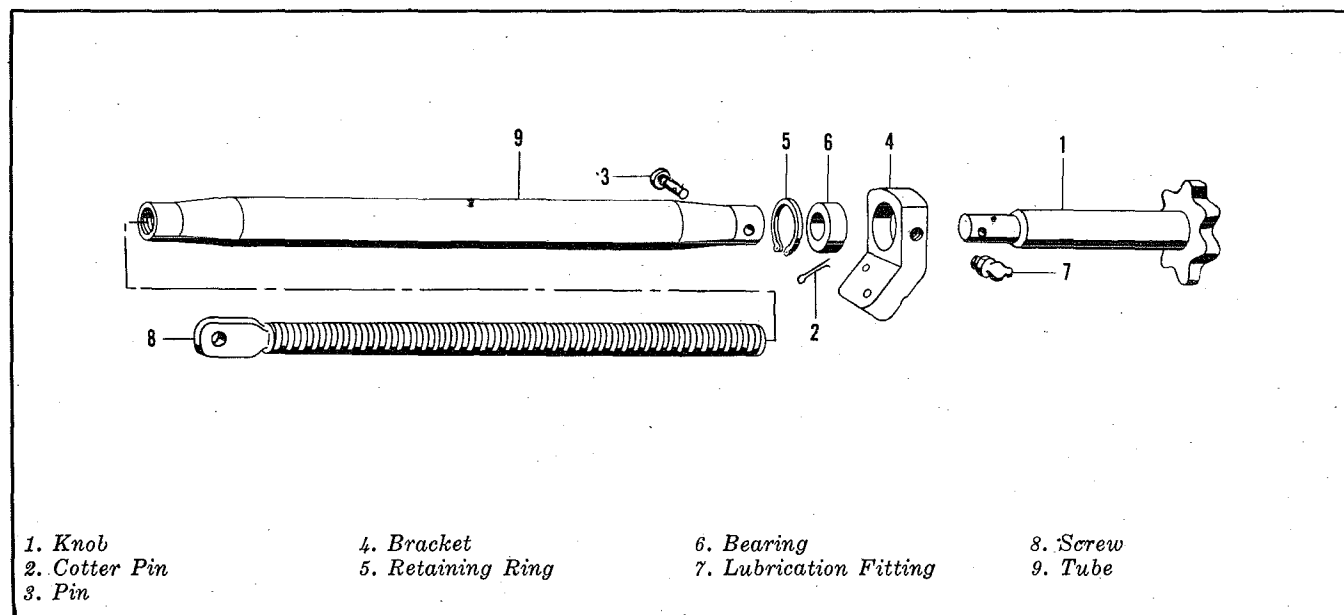


Figure 3-6. Rotation Adjustment Assembly

**3-11. DISASSEMBLY OF ROTATION
ADJUSTMENT ASSEMBLY.** (See figure 3-7.)

a. Disassemble in the order of index numbers assigned to the exploded view illustration.

Note

Figure 3-7., applies to Trailers, Serial Nos. 1321 and subsequent. See figure 3-6., for Trailers, Serial Nos. 196 through 1320.

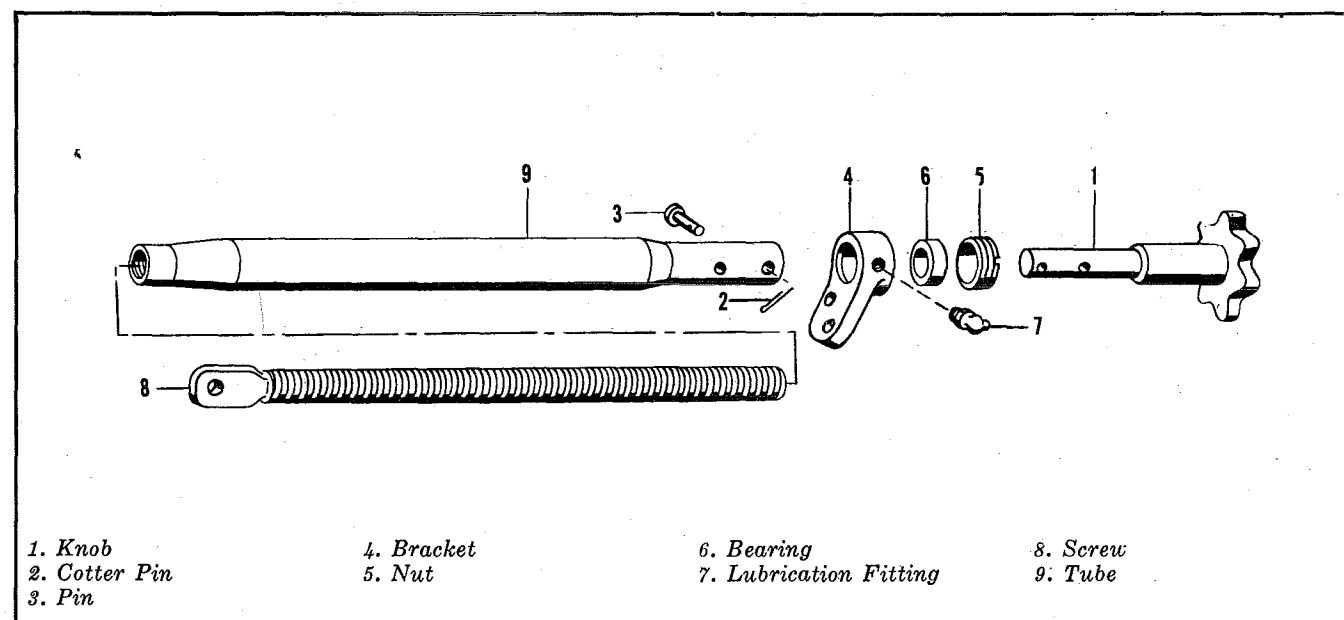
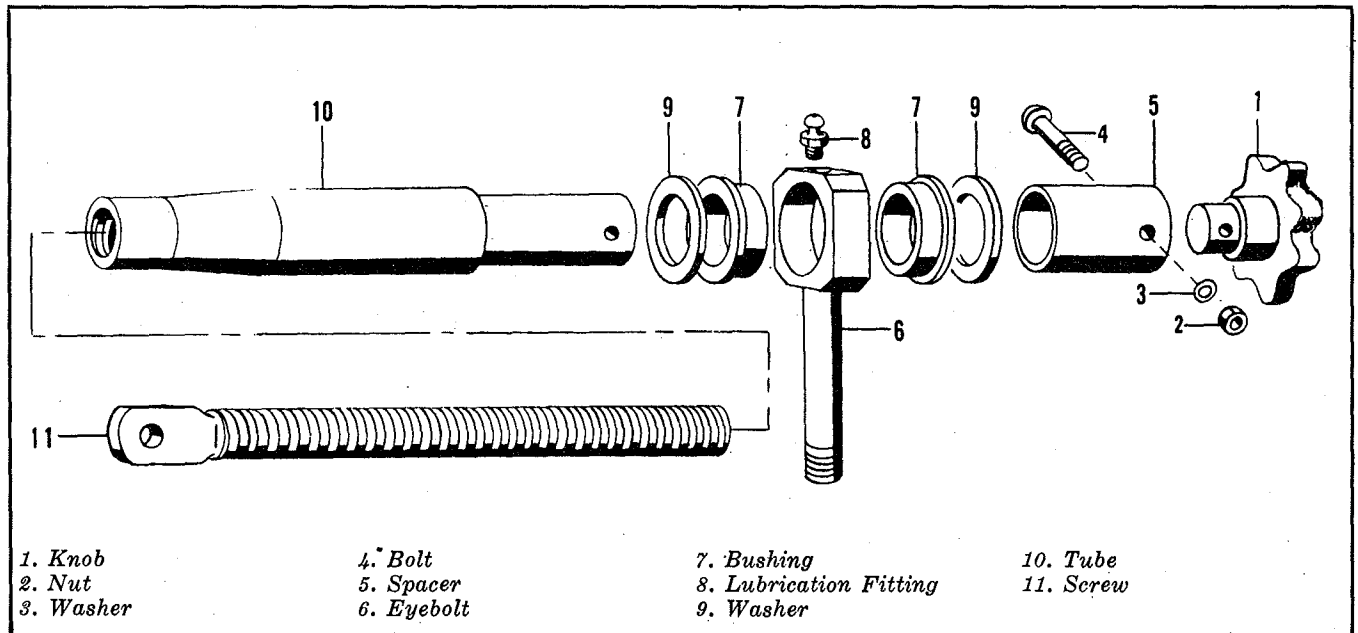


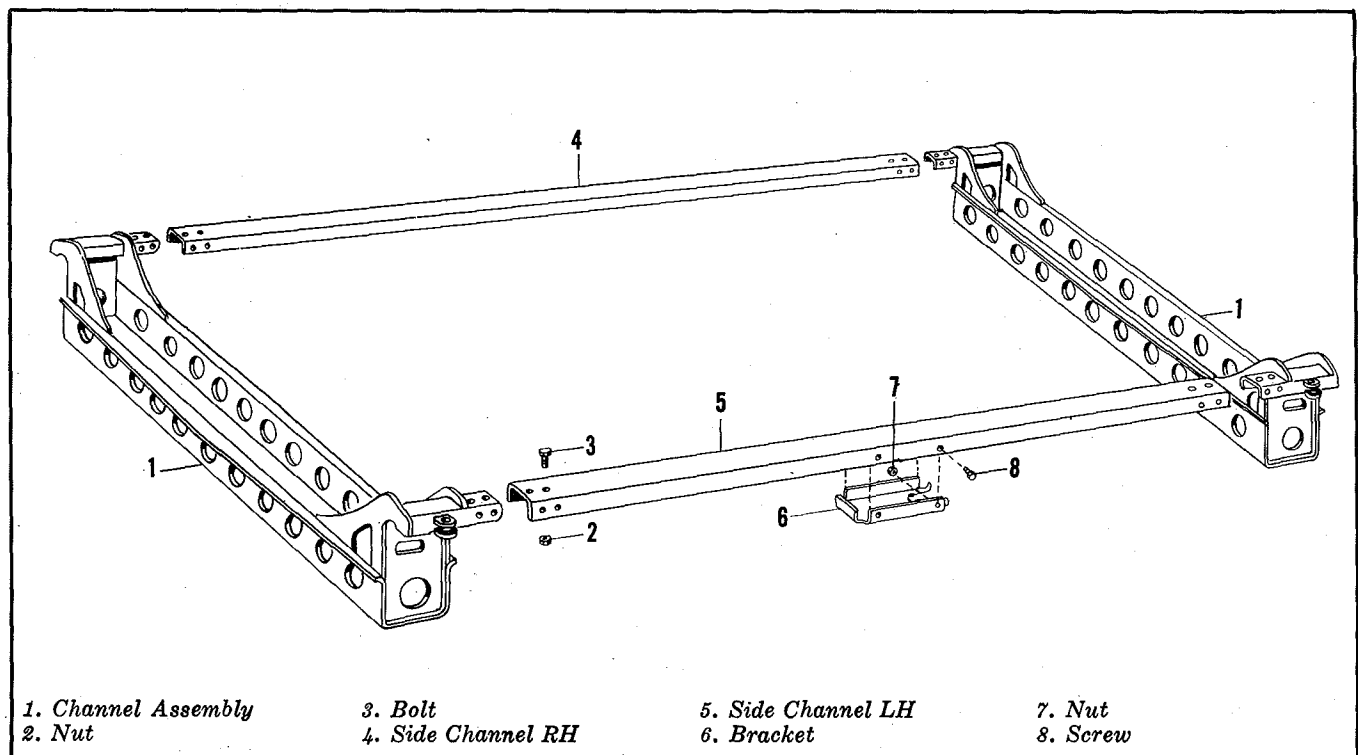
Figure 3-7. Rotation Adjustment Assembly

**3-12. DISASSEMBLY OF TRAVERSE
ADJUSTMENT ASSEMBLY.** (See figure 3-8.)

a. Disassemble in the order of index numbers assigned to the exploded view illustration.

**Figure 3-8. Traverse Adjustment Assembly****3-13. DISASSEMBLY OF UPPER
FRAME ASSEMBLY.** (See figure 3-9.)

a. Disassemble in the order of index numbers assigned to the exploded view illustration.

**Figure 3-9. Upper Frame Assembly**

**3-14. REMOVAL AND DISASSEMBLY OF
HYDRAULIC INSTALLATION.** Trailers, Serial
Nos. 196 through 345. (See figure 3-10.)

Note

For Trailers, Serial Nos. 346 through 520, see figure 3-11.

For Trailers, Serial Nos. 521 through 1320, see figure 3-12.

For Trailers, Serial Nos. 1321 and subsequent, see figure 3-13.

a. Hydraulic installation is removed and disassembled in the order of index numbers assigned to exploded view illustration, except for the warning and following special procedures.

b. Forward and aft hydraulic groups are identical except for some left and right hand parts, therefore, duplicate index numbers have been assigned to the forward and after groups.

WARNING

1. If cylinder assemblies and safety pawls have not been removed, make certain safety pawls are securely engaged with cylinder rams before bleeding pressure lines or removal of hydraulic components.

2. If cylinder assemblies and safety pawls have been removed, check security of linkage blocking installed at time of cylinder removal.

3. Under no circumstances shall any part of the hydraulic installation be removed when trailer is under load.

c. To remove selector valve (50), spring pin (47), and valve handle assembly (indexes 48 and 49) must be removed in addition to attaching screws (51).

KEY TO FIGURE 3-10.

1. Hose Assembly	29. Tube Assembly	56. Cover Assembly	83. Tube Assembly
2. Clamp	30. Fitting	57. Screw	84. Nipple
3. Tube	31. Elbow	58. Washer	85. Tee
4. Nut	32. Tube Assembly	59. Screw	86. Gasket
5. Clamp	33. Fitting	60. Washer	87. Nut
6. Screw	34. Tube Assembly	61. Cotter Pin	88. Pilot Check Valve
7. Clamp	35. Fitting Assembly	62. Washer	89. Nipple
8. Screw	36. Tube Assembly	63. Pin	90. Gasket
9. Washer	37. Tee	64. Tube Assembly	91. Fitting
10. Elbow	38. Nut	65. Tube Assembly	92. Elbow
11. Hose Assembly	39. Washer	66. Nipple	93. Nipple
12. Clamp	40. Fitting	67. Hose Assembly	94. Flow Control Valve
13. Tube	41. Tube Assembly	68. Elbow	95. Nipple
14. Nut	42. Elbow	69. Gasket	96. Grommet
15. Clamp	43. Fitting	70. Nut	97. Grommet
16. Screw	44. Hydraulic Pump	71. Filter Assembly	98. Hydraulic Ram
17. Screw	45. Nut	72. Gasket	99. Cotter Pin
18. Clamp	46. Bolt	73. Nut	100. Nut
19. Screw	47. Spring Pin	74. Reducer	101. Washer
20. Washer	48. Ball	75. Bracket	102. Clevis Pin
21. Elbow	49. Selector Valve Handle	76. Clamp	103. Packing
22. Hose Assembly	50. Selector Valve	77. Screw	104. Ring
23. Clamp	51. Screw	78. Tube Assembly	105. Nut
24. Screw	52. Screw	79. Nipple	106. Washer
25. Elbow	53. Knob	80. Flow Control Valve	107. Bolt
26. Restrictor Valve	54. Guide	81. Nipple	108. Bushing
27. Elbow	55. Retainer Ring	82. Elbow	109. Plug

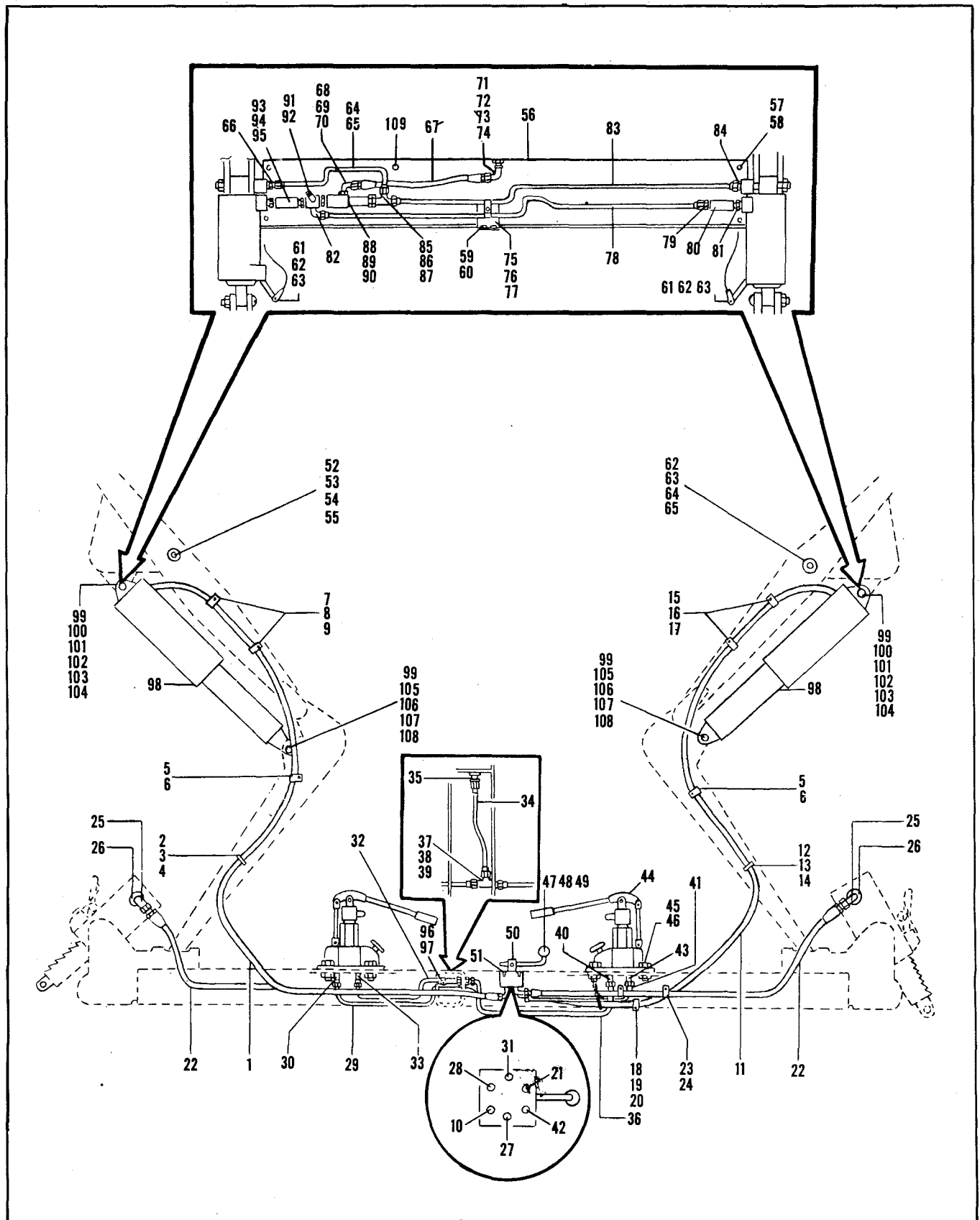


Figure 3-10. Hydraulic Installation, Part No. 101825

**3-15. REMOVAL AND DISASSEMBLY OF
HYDRAULIC INSTALLATION.** Trailers Serial
Nos. 346 through 520. (See figure 3-11.)

Note

For Trailers, Serial Nos. 196 through 345, see figure 3-10. For Trailers, Serial Nos. 521 through 1320, see figure 3-12. For Trailers, Serial Nos. 1321 and subsequent, see figure 3-13.

WARNING

1. If cylinder assemblies and safety pawls have not been removed, make certain pawls are securely engaged in cylinder rams before bleeding pressure lines or removal of hydraulic components.
2. If cylinder assemblies and safety pawls have been removed check security of linkage block-

ing installed at time of cylinder removal.

3. Under no circumstances shall any part of the hydraulic installation be removed when trailer is under load.

- a. Hydraulic installation is removed and disassembled in the order of index numbers assigned to the exploded view illustration, except for the warning and following special procedures.

- b. Forward and aft hydraulic groups are identical except for some left and right hand parts, therefore, duplicate index numbers have been assigned to forward and aft groups.

- c. To remove selector valve (51), spring pin (48), and handle assemblies indexes (49) and (50) must be removed in addition to attaching screws (52).

Note

Nuts (63), bolts (64), and spacers (65) are attaching parts for pilot check valves (93) but removal is required to disengage the cover assembly (57).

KEY TO FIGURE 3-11.

1. Hose Assembly	31. Fitting	59. Washer	87. Nut
2. Clamp	32. Elbow	60. Cotter Pin	88. Reducer
3. Tube	33. Tube Assembly	61. Washer	89. Tee
4. Nut	34. Fitting	62. Pin	90. Nut
5. Clamp	35. Tube Assembly	63. Nut	91. Gasket
6. Screw	36. Fitting Assembly	64. Bolt	92. Bushing
7. Clamp	37. Tube Assembly	65. Spacer	93. Pilot Check Valve
8. Screw	38. Tee	66. Tube Assembly	94. Tube Assembly
9. Washer	39. Nut	67. Tube Assembly	95. Tube Assembly
10. Elbow	40. Washer	68. Nipple	96. Nipple
11. Hose Assembly	41. Fitting	69. Flow Control Valve	97. Tee
12. Clamp	42. Tube Assembly	70. Nipple	98. Fitting
13. Tube	43. Elbow	71. Tube Assembly	99. Plug
14. Nut	44. Fitting	72. Elbow	100. Elbow
15. Clamp	45. Hydraulic Pump	73. Tube Assembly	101. Nipple
16. Screw	46. Nut	74. Reducer	102. Flow Control Valve
17. Screw	47. Bolt	75. Elbow	103. Hydraulic Ram
18. Clamp	48. Spring Pin	76. Nut	104. Cotter Pin
19. Screw	49. Ball	77. Gasket	105. Nut
20. Washer	50. Selector Valve Handle	78. Hose Assembly	106. Washer
22. Elbow	51. Selector Valve	79. Nut	107. Clevis Pin
23. Hose Assembly	52. Screw	80. Gasket	108. Packing
24. Clamp	53. Screw	81. Reducer	109. Ring
25. Screw	54. Knob	82. Elbow	110. Nut
26. Elbow	55. Guide	83. Nut	111. Washer
27. Restrictor Valve	56. Retainer Ring	84. Gasket	112. Bolt
28. Elbow	57. Cover Assembly	85. Filter Assembly	113. Bushing
29. Elbow	58. Screw	86. Gasket	114. Plug
30. Tube Assembly			

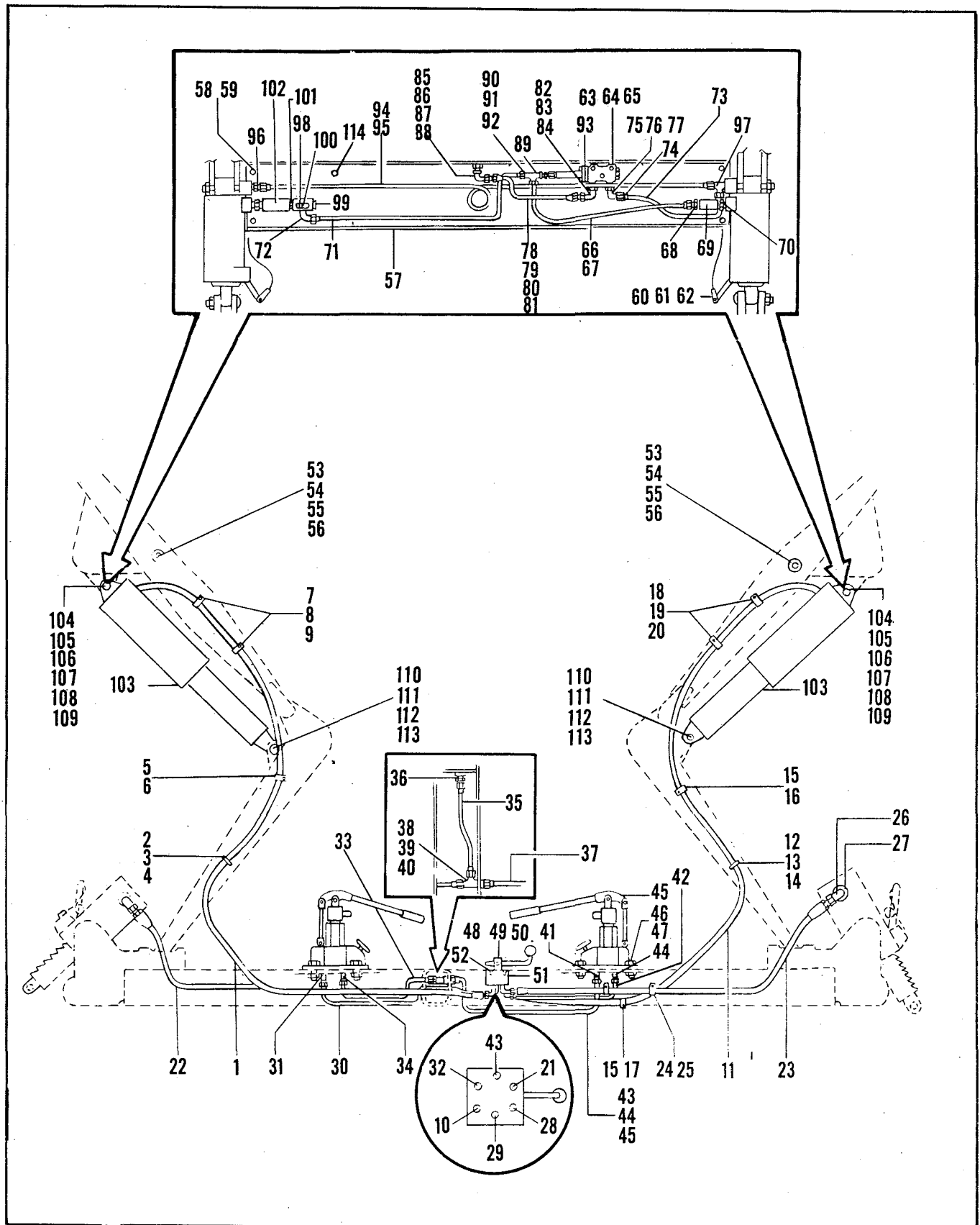


Figure 3-11. Hydraulic Installation, Part No. 103350

**3-16. REMOVAL AND DISASSEMBLY OF
HYDRAULIC INSTALLATION.** Trailers, Serial
Nos. 521 through 1320. (See figure 3-12.)

Note

For Trailers, Serial Nos. 196 through 345, see figure 3-10. For Trailers, Serial Nos. 346 through 520, see figure 3-11. For Trailers, Serial Nos. 1321 and subsequent, see figure 3-13.

WARNING

1. If cylinder assemblies and safety pawls have not been removed make certain safety pawls are securely engaged with cylinder rams before bleeding pressure lines and removal of hydraulic components.
2. If cylinder assemblies and safety pawls have been removed check security of linkage block-

ing installed at time of removal.

3. Under no circumstances shall any part of the hydraulic installation be removed when trailer is under load.

- a. Hydraulic installation is removed and disassembled in the order of index numbers assigned to the exploded view illustration except for the warning and following special procedures.

- b. Forward and aft hydraulic groups are identical except for some left and right hand parts, therefore, duplicate index numbers have been assigned to forward and aft groups.

- c. To remove selector valve (60) spring pin (57), and handle assembly indexes (58) and (59) must be removed in addition to attaching screws (61).

Note

Nuts (72), bolts (73), and spacers (74) are attaching parts for pilot check valve (102) but removal is required to disengage cover assembly (66).

KEY TO FIGURE 3-12.

1. Hose Assembly	32. Elbow	63. Knob	94. Upper Reservoir Filter
2. Clamp	33. Tube Assembly	64. Guide	95. Gasket
3. Tube	34. Nipple	65. Retaining Ring	96. Nut
4. Nut	35. Tube Assembly	66. Cover Assembly	97. Tee
5. Clamp	36. Filter	67. Screw	98. Nut
6. Screw	37. Gasket	68. Washer	99. Gasket
7. Clamp	38. Union	69. Cotter Pin	100. Ring
8. Screw	39. Nipple	70. Washer	101. Bushing
9. Washer	40. Tube Assembly	71. Pin	102. Pilot Check Valve
10. Elbow	41. Nipple	72. Nut	103. Tube Assembly
11. Hose Assembly	42. Tee	73. Bolt	104. Tube Assembly
12. Clamp	43. Tube Assembly	74. Sleeve Spacer	105. Nipple
13. Tube	44. Elbow	75. Tube Assembly	106. Tee
14. Nut	45. Nipple	76. Tube Assembly	107. Multiple Connector
15. Clamp	46. Pump Handle	77. Nipple	108. Plug
16. Screw	47. Nut	78. Flow Control Valve	109. Elbow
17. Screw	48. Bolt	79. Nipple	110. Nipple
18. Clamp	49. Bolt	80. Tube Assembly	111. Flow Control Valve
19. Screw	50. Washer	81. Elbow	112. Hydraulic Ram
20. Washer	51. Pump	82. Tube Assembly	113. Cotter Pin
21. Elbow	52. Screw	83. Reducer	114. Nut
22. Hose Assembly	53. Washer	84. Elbow	115. Washer
23. Hose Assembly	54. Stop	85. Nut	116. Clevis Pin
24. Clamp	55. Nut	86. Gasket	117. Ring
25. Screw	56. Screw	87. Ring	118. Packing
26. Elbow	57. Spring Pin	88. Hose Assembly	119. Nut
27. Restrictor Valve	58. Ball	89. Reducer	120. Washer
28. Elbow	59. Selector Valve Handle	90. Elbow	121. Bolt
29. Elbow	60. Selector Valve	91. Nut	122. Bushing
30. Tube Assembly	61. Screw	92. Gasket	123. Plug
31. Nipple	62. Screw	93. Ring	

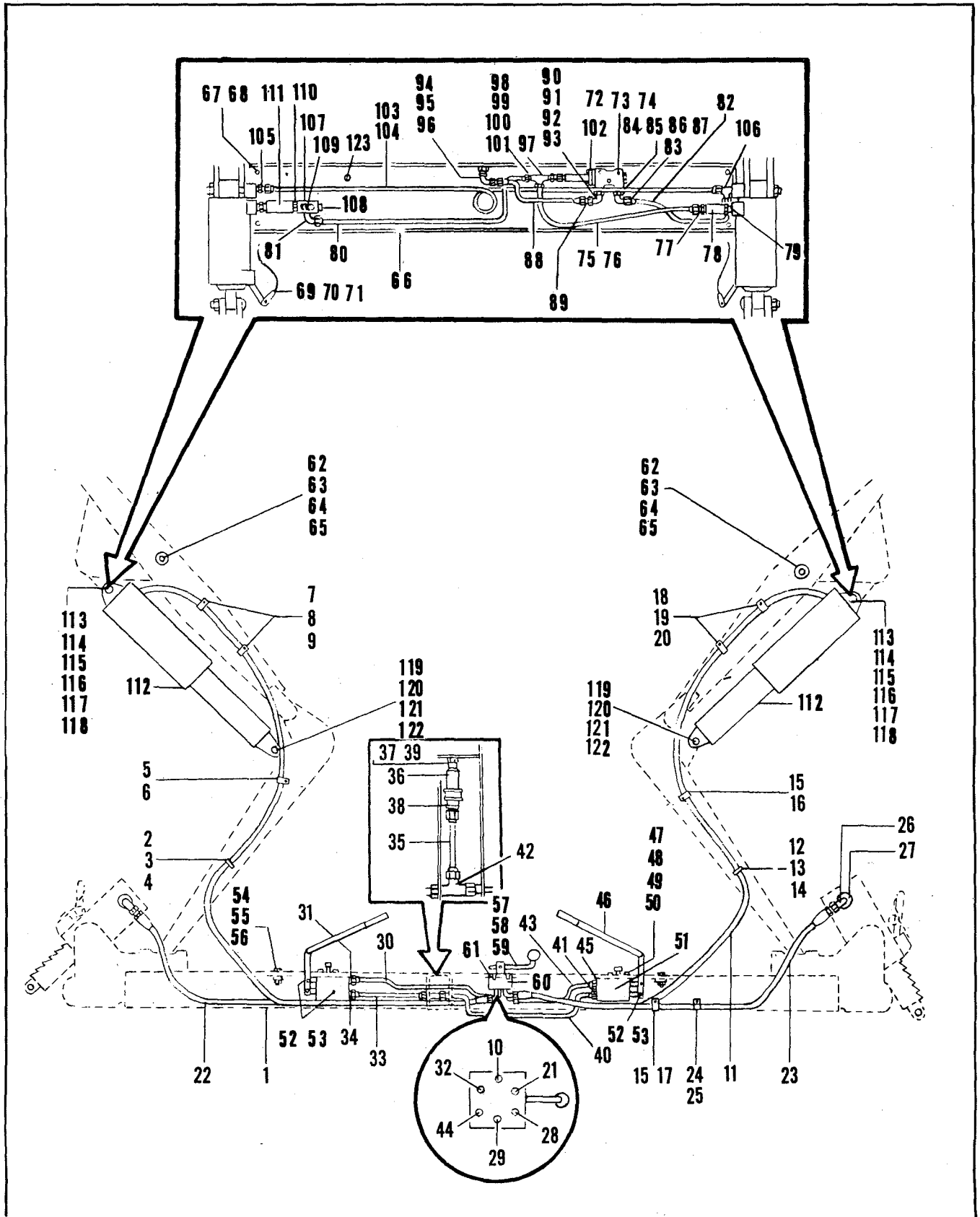


Figure 3-12. Hydraulic Installation, Part No. 103658

**3-17. REMOVAL AND DISASSEMBLY OF
HYDRAULIC INSTALLATION.** Trailers,
Serial Nos. 1321 and subsequent. (See figure 3-13.)

Note

For Trailers, Serial Nos. 193 through 345 see figure 3-10. For Trailers, Serial Nos. 346 through 520, see figure 3-11. For Trailers, Serial Nos. 521 through 1320, see figure 3-12.

WARNING

1. If cylinder assemblies and safety pawls have not been removed make certain safety pawls are securely engaged with cylinder rams before bleeding pressure lines and removal of hydraulic components.

2. If cylinder assemblies and safety pawls have been removed, check security of linkage blocking installed at time of removal.

3. Under no circumstances shall any part of the hydraulic installation be removed when the trailer is under load.

a. Hydraulic installation is removed and disassembled in the order of index numbers assigned to the exploded view illustration except for the warning and following special procedures.

b. Forward and aft hydraulic groups are identical except for some left and right hand parts, therefore, duplicate index numbers have been assigned to forward and aft groups.

c. To remove selector valve (58), spring pin (55), and valve handle assembly, indexes (56) and (57) must be removed in addition to attaching screws (59):

KEY TO FIGURE 3-13.

1. Hose Assembly	28. Tube Assembly	55. Spring Pin	82. Union
2. Elbow	29. Elbow	56. Ball	83. Gasket
3. Elbow	30. Tube Assembly	57. Selector Valve Handle	84. Tee
4. Bushing	31. Nipple	58. Selector Valve	85. Gasket
5. Plug	32. Tube Assembly	59. Screw	86. Ring
6. Hose Assembly	33. Nipple	60. Stop	87. Nut
7. Clamp	34. Relief Valve	61. Screw	88. Valve
8. Screw	35. Elbow	62. Nut	89. Union
9. Clamp	36. Tube Assembly	63. Screw	90. Gasket
10. Screw	37. Relief Valve	64. Knob	91. Plug
11. Washer	38. Nipple	65. Guide	92. Hydraulic Ram
12. Elbow	39. Elbow	66. Retaining Ring	93. Cotter Pin
13. Hose Assembly	40. Tee	67. Cover Assembly	94. Nut
14. Clamp	41. Tube Assembly	68. Screw	95. Washer
15. Screw	42. Union	69. Washer	96. Pin
16. Nipple	43. Gasket	70. Cotter Pin	97. Pin
17. Elbow	44. Filter	71. Washer	98. Packing
18. Bushing	45. Gasket	72. Pin	99. Ring
19. Plug	46. Nipple	73. Tube Assembly	100. Cotter Pin
20. Hose Assembly	47. Pump Handle	74. Tube Assembly	101. Nut
21. Clamp	48. Nut	75. Tee	102. Washer
22. Screw	49. Bolt	76. Tee	103. Bolt
23. Screw	50. Bolt	77. Elbow	104. Bushing
24. Clamp	51. Washer	78. Nut	*105. Hose Assembly
25. Screw	52. Pump	79. Gasket	*106. Clamp
26. Washer	53. Screw	80. Ring	*107. Elbow
27. Nipple	54. Washer	81. Tube Assembly	*108. Bushing

*Indexes 105 through 108 apply to serial numbers 10001 through 20000.

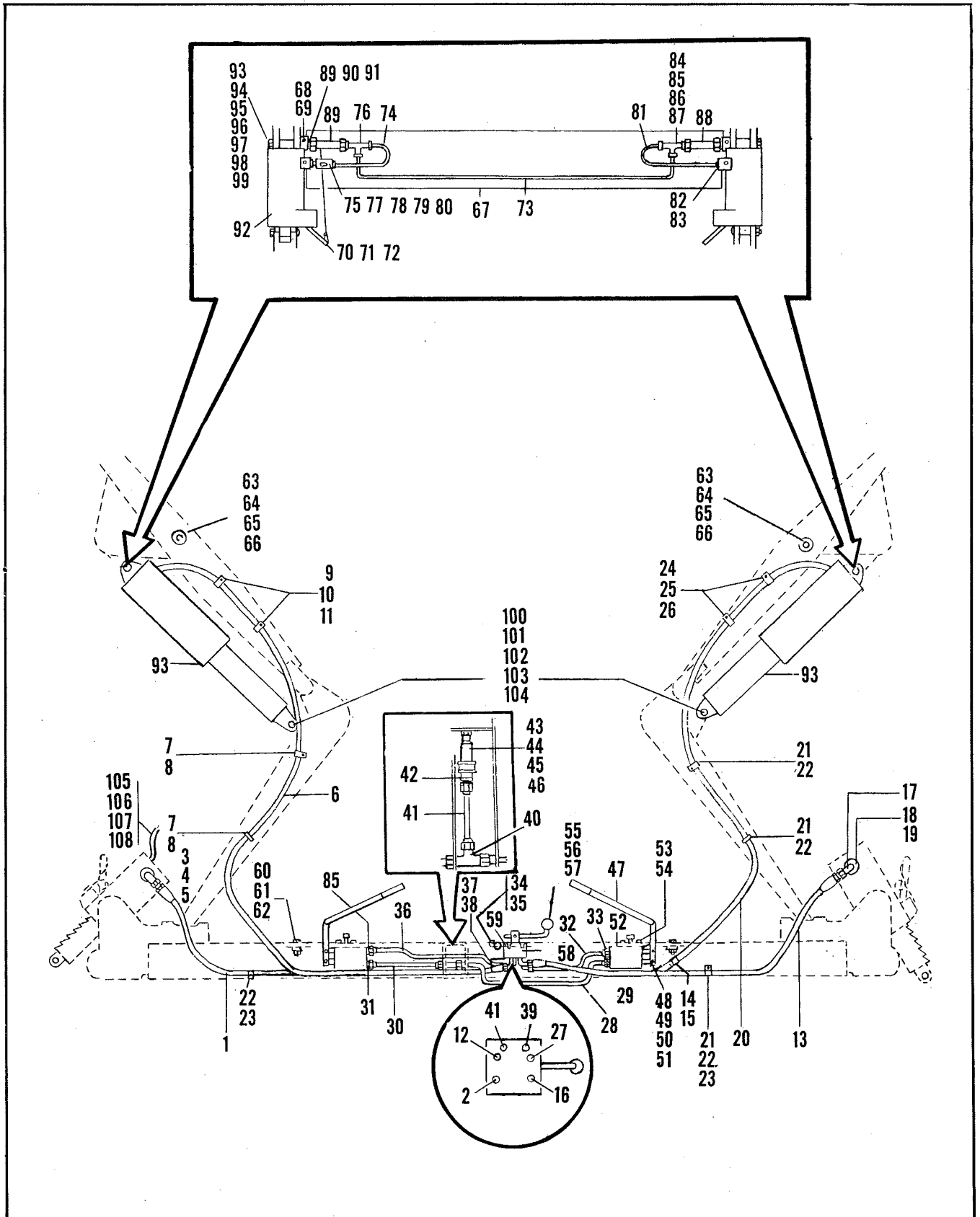
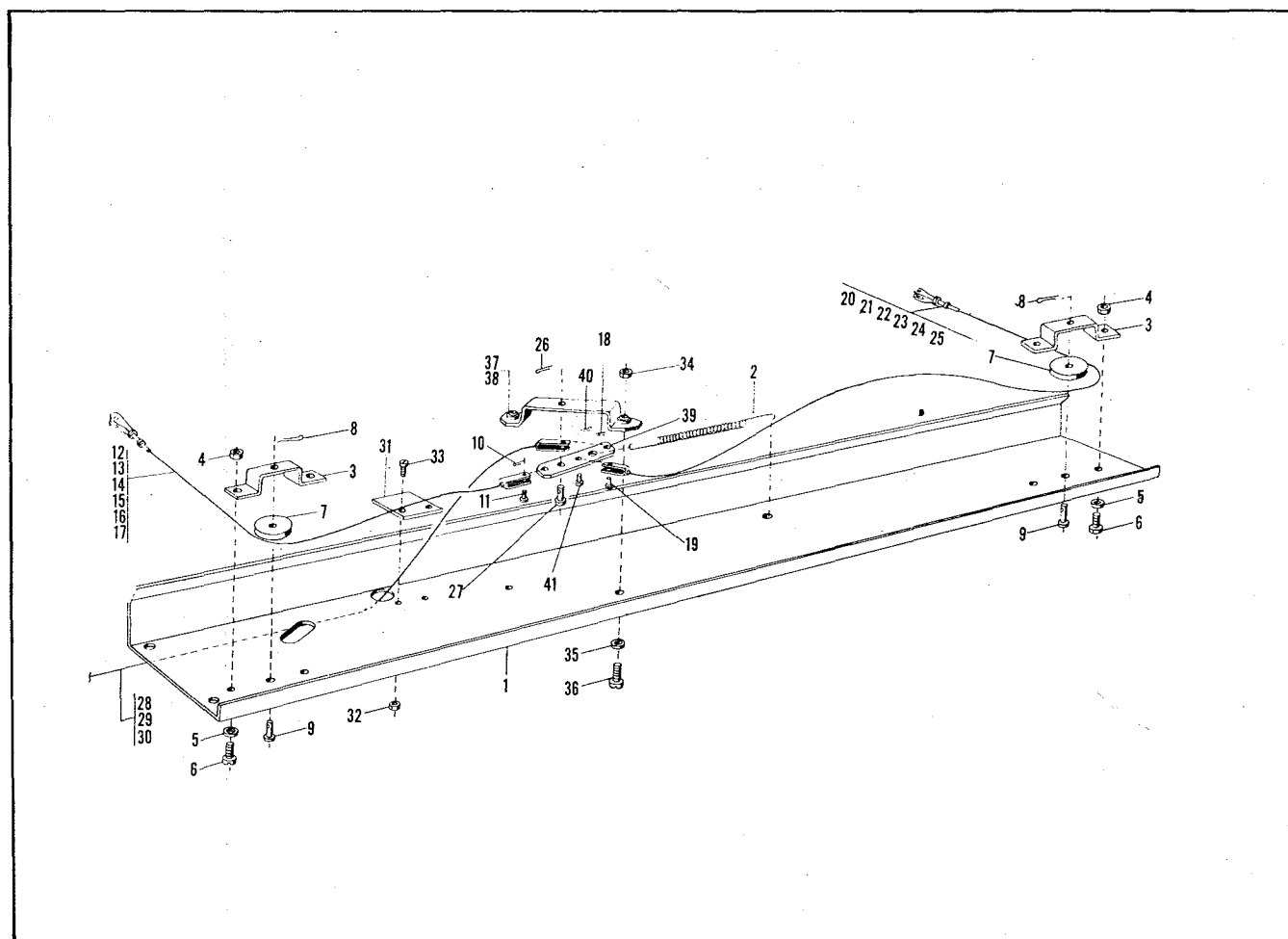


Figure 3-13. Hydraulic Installation, Part Nos., 104950 and 104950-501

**3-18. DISASSEMBLY OF HYDRAULIC
LINES SUPPORT COVER ASSEMBLY.**

(See figure 3-14.)

a. Disassemble the cover assembly in the order of index numbers assigned to the exploded view illustration.



**Figure 3-14. Hydraulic Lines Support Cover Assembly,
Part Nos. 102076 and 104942**

- | | | | |
|----------------|----------------|----------------|-------------------|
| 1. Channel | 12. Clevis | 22. Terminal | 32. Nut |
| 2. Spring | 13. Nut | 23. Terminal | 33. Screw |
| 3. Bracket | 14. Terminal | 24. Clevis | 34. Nut |
| 4. Nut | 15. Terminal | 25. Cable | 35. Washer |
| 5. Washer | 16. Clevis | 26. Cotter Pin | 36. Screw |
| 6. Screw | 17. Cable | 27. Pin | 37. Bracket |
| 7. Pulley | 18. Cotter Pin | 28. Clevis | 38. Nut |
| 8. Cotter Pin | 19. Pin | 29. Cable | 39. Release Lever |
| 9. Pin | 20. Clevis | 30. Terminal | 40. Cotter Pin |
| 10. Cotter Pin | 21. Nut | 31. Strip | 41. Pin |
| 11. Pin | | | |

3-19. DISASSEMBLY OF CONNECTING ROD LINK. (See figure 3-15.)

a. Disassembly is in the order of index numbers assigned to the exploded view illustration.

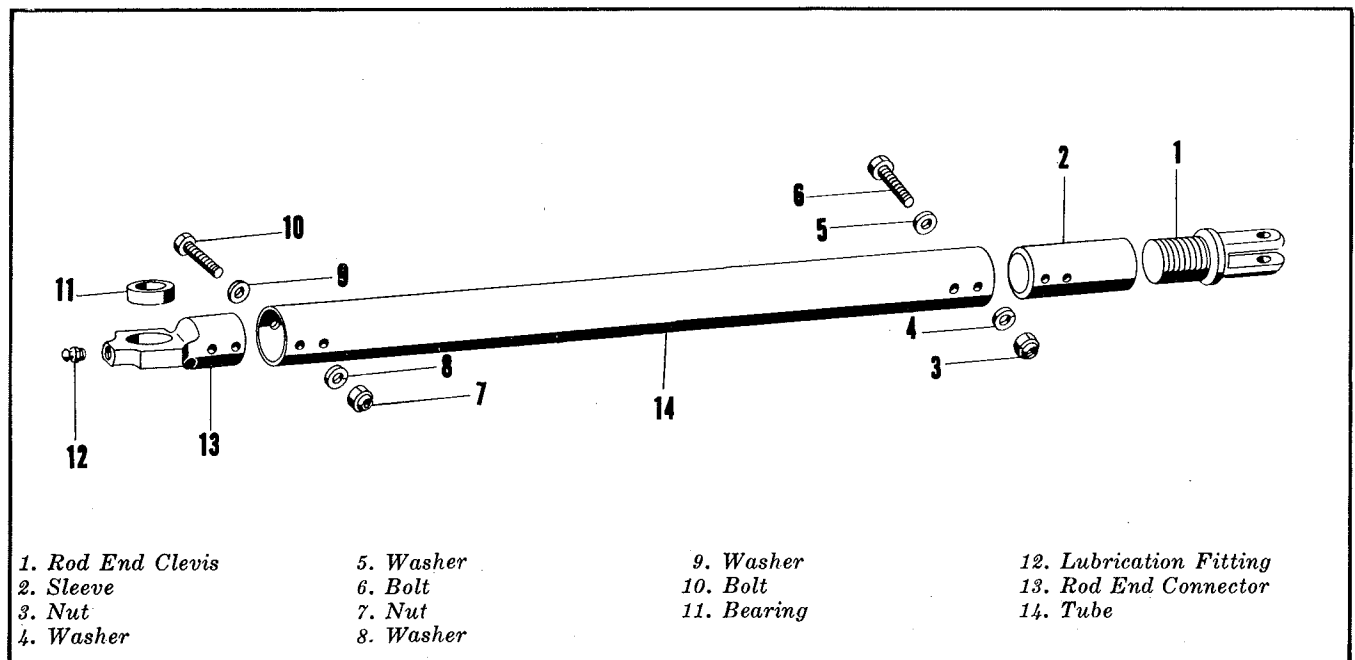


Figure 3-15. Connecting Rod, Part No. 111476

3-20. DISASSEMBLY OF BRAKE PEDAL ASSEMBLY. (See figure 3-16.)

a. Disassembly is in the order of index numbers assigned to the exploded view illustration.

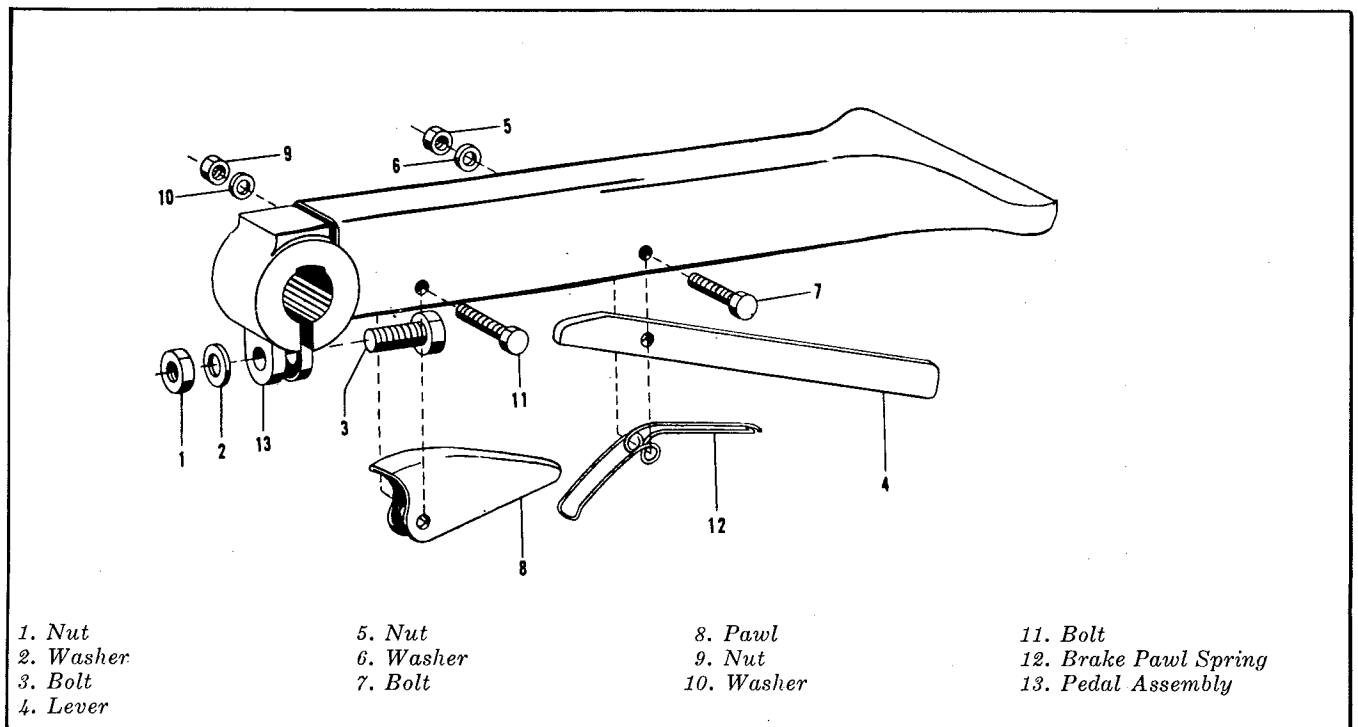


Figure 3-16. Brake Pedal Assembly, Part No. S101694

3-21. DISASSEMBLY OF HUB AND WHEEL

ASSEMBLY. (See figure 3-17.) Disassembly is in the order of index numbers assigned to the exploded view illustration, paying particular attention to the following:

- a. Use standard removal procedure for removal of tires (1), tubes (2) and flaps (3).
- b. Protect bearing components from damage and abrasive foreign matter after removal.

Note

Indexes (7, 8, 9, and 10) were removed when wheels were removed from trailer.

- c. Do not remove bolts (16, 17) unless necessary to replace with new.
- d. Do not remove bearing cups (11, 13) unless necessary to replace with new.

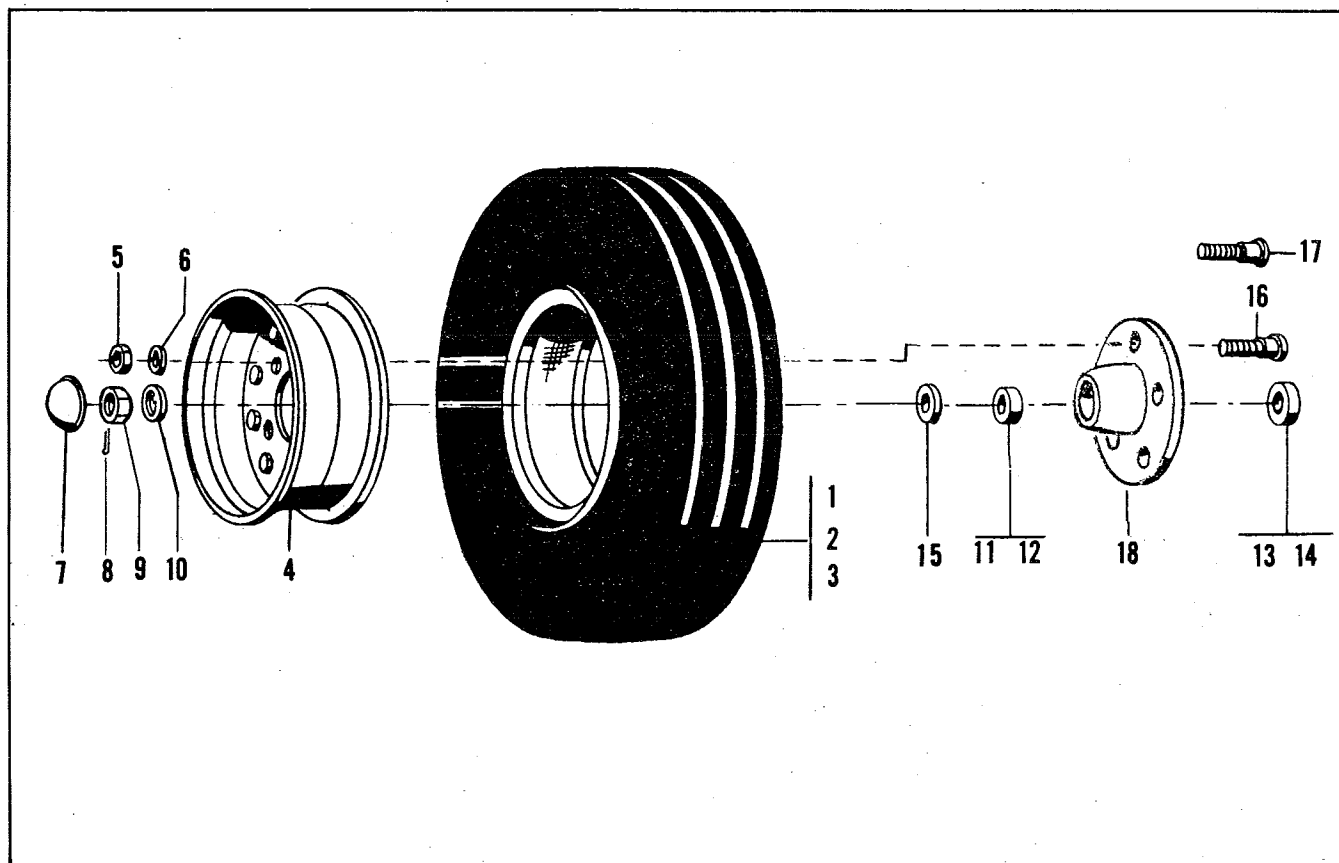


Figure 3-17. Wheel, Hub, Tire and Tube Assembly

- | | | | |
|----------|-------------------------|---------------------------|----------------------------|
| 1. Tire | 6. Washer | 11. Outboard Bearing Cup | 15. Plain Seal |
| 2. Tube | 7. Wheel Hub Grease Cap | 12. Outboard Bearing Cone | 16. Ribbed Neck Bolt (FWD) |
| 3. Flap | 8. Cotter Pin | 13. Inboard Bearing Cup | 17. Ribbed Neck Bolt (AFT) |
| 4. Wheel | 9. Nut | 14. Inboard Bearing Cone | 18. Hub |
| 5. Nut | 10. Keyed Washer | | |

3-22. DISASSEMBLY OF BRAKE ASSEMBLY.

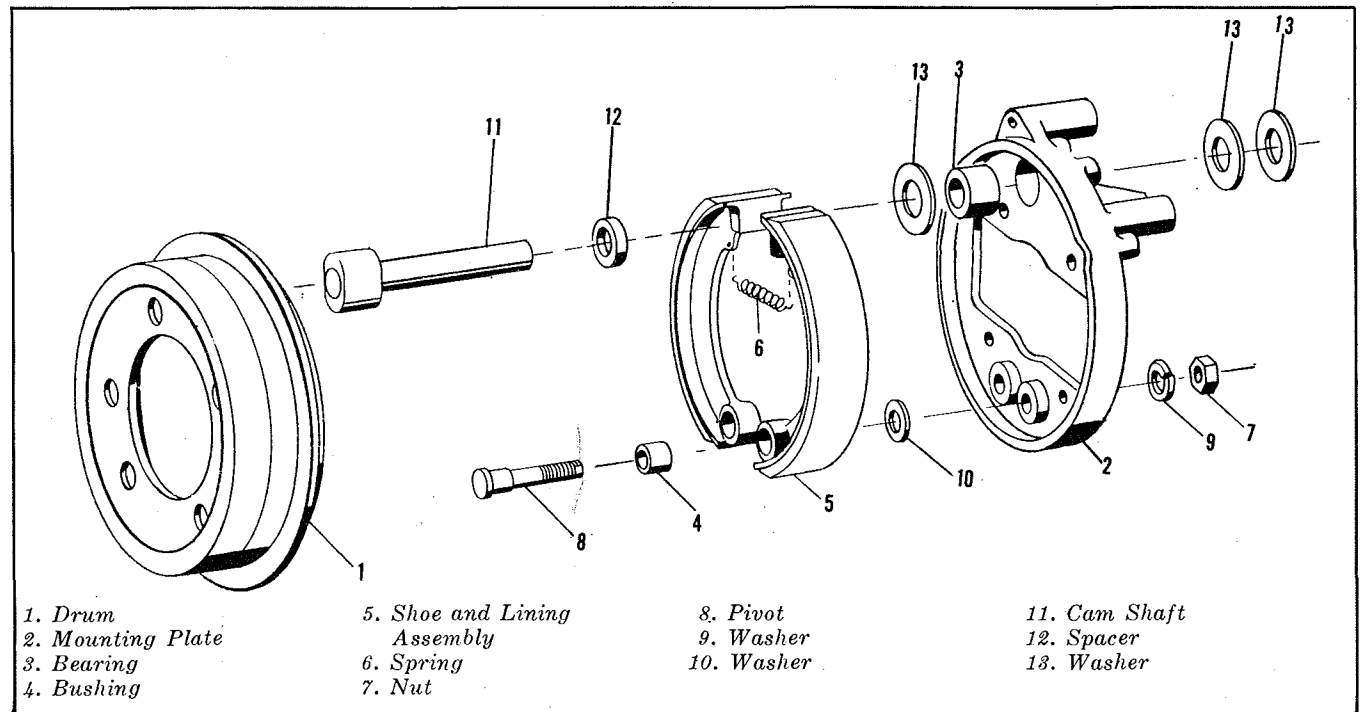
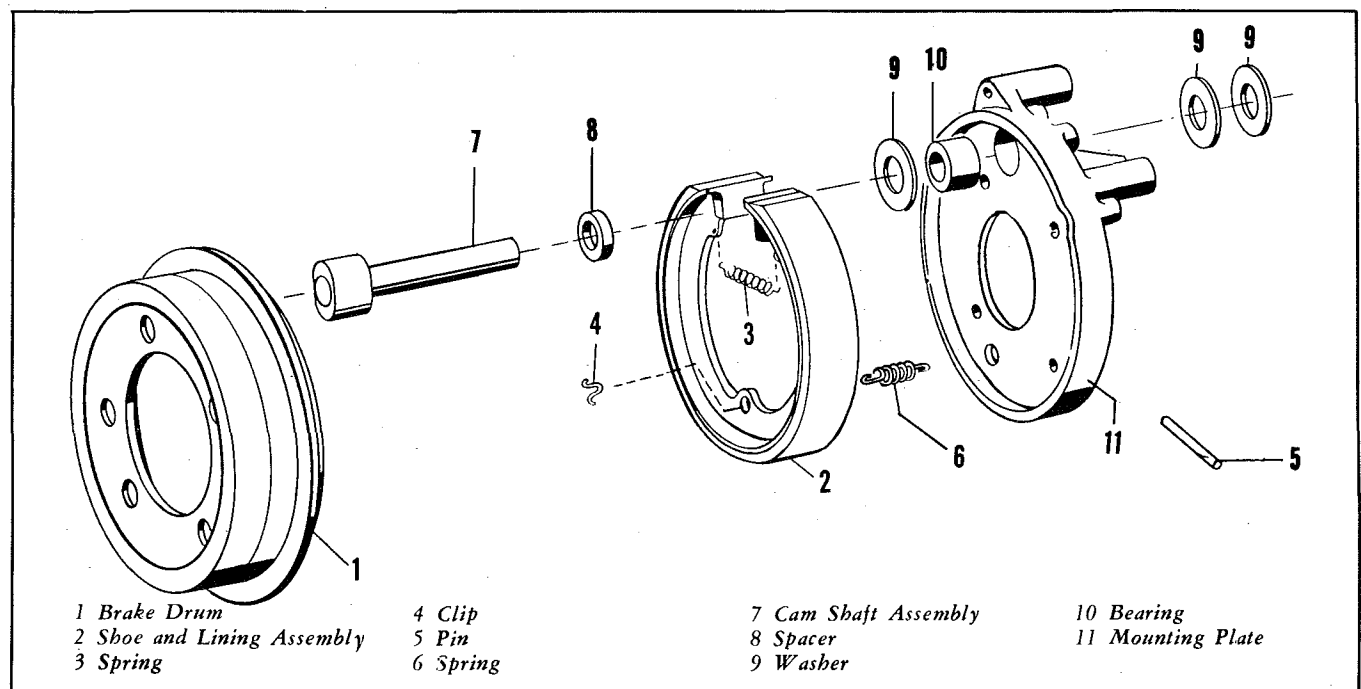
(See figures 3-18 and 3-19)

a. Disassembly is in the order of index numbers assigned to the exploded view illustration.

Note

Figure 3-18 applies to trailers bearing serial numbers 196 through 1620.

Figure 3-19 applies to trailers bearing serial numbers 1621 through 20000.

**Figure 3-18. Brake Assembly, Part No. 51284****Figure 3-19. Brake Assembly, Part No. 51682**

3-23. DISASSEMBLY OF CHASSIS ASSEMBLY.

(See figure 3-20.) Disassembly is in the order of index numbers assigned to the exploded view illustration paying particular attention to the following:

a. Do not remove inserts (60, 69, 74 and 81) unless inspection reveals necessity to replace with new, since removal will result in damage beyond repair.

b. Do not attempt disassembly of rams (82 and 86) since repair parts or procedures are not covered in this publication.

Note

Index (27) applies to Trailers, Serial Nos. 671 through 20000 only. Index (31) applies to Trailers, Serial Nos. 196 through 670 only. Indexes (61, 62, 63, 77, 78) apply to trailers, serial Nos. 196 through 10000. Indexes (64, 65, 86 through 89) applies to Trailers, serial Nos. 10001 through 20000 only.

Key to Figure 3-20.

1. Cable	25. Nut	49. Nut	73. Bushing
2. Sleeve	26. Steering Crank	50. Washer	74. Insert
3. Lock Spring	27. Cotter Pin	51. Steering Arm	75. Lubrication Fitting
4. Ring	28. Nut	52. Nut	76. Lubrication Fitting
5. Pin	29. Screw	53. Washer	77. Nut
6. Spring Lock Pin	30. Bolt	54. Bolt	78. Bolt
7. Cable	31. Bushing	55. Bolt	79. Lower Arm
8. Sleeve	32. 90° Turn Fitting	56. Spacer	80. Lubrication Fitting
9. Tube	33. Cotter Pin	57. Upper Arm	81. Insert
10. Tube Assembly	34. Nut	58. Bushing	82. Hydraulic Ram
11. Drawbar Pivot Link	35. Washer	59. Lubrication Fitting	83. Cotter Pin
12. Cotter Pin	36. Bolt	60. Insert	84. Washer
13. Nut	37. Towing Pintle Assembly	61. Cotter Pin	85. Pin
14. Washer	38. Nut	62. Washer	86. Hydraulic Ram
15. Bolt	39. Washer	63. Pin	87. Cotter Pin
16. Nut	40. Bolt	64. Bolt	88. Washer
17. Washer	41. Wheel Spindle	65. Spacer	89. Pin
18. Bolt	42. Nut	66. Upper Arm	90. Torque Tube
19. Bushing	43. Washer	67. Bushing	91. Foot Assembly
20. Drawbar Pivot Fitting	44. Bolt	68. Lubrication Fitting	92. Quick-Release Pin
21. Retaining Ring	45. Retainer	69. Insert	93. Cable
22. Drawbar Pivot Pin	46. Washer	70. Nut	94. Sleeve
23. Steering Tierod	47. Ball Stud	71. Bolt	95. Main Frame Assembly
24. Cotter Pin	48. Cotter Pin	72. Lower Arm	

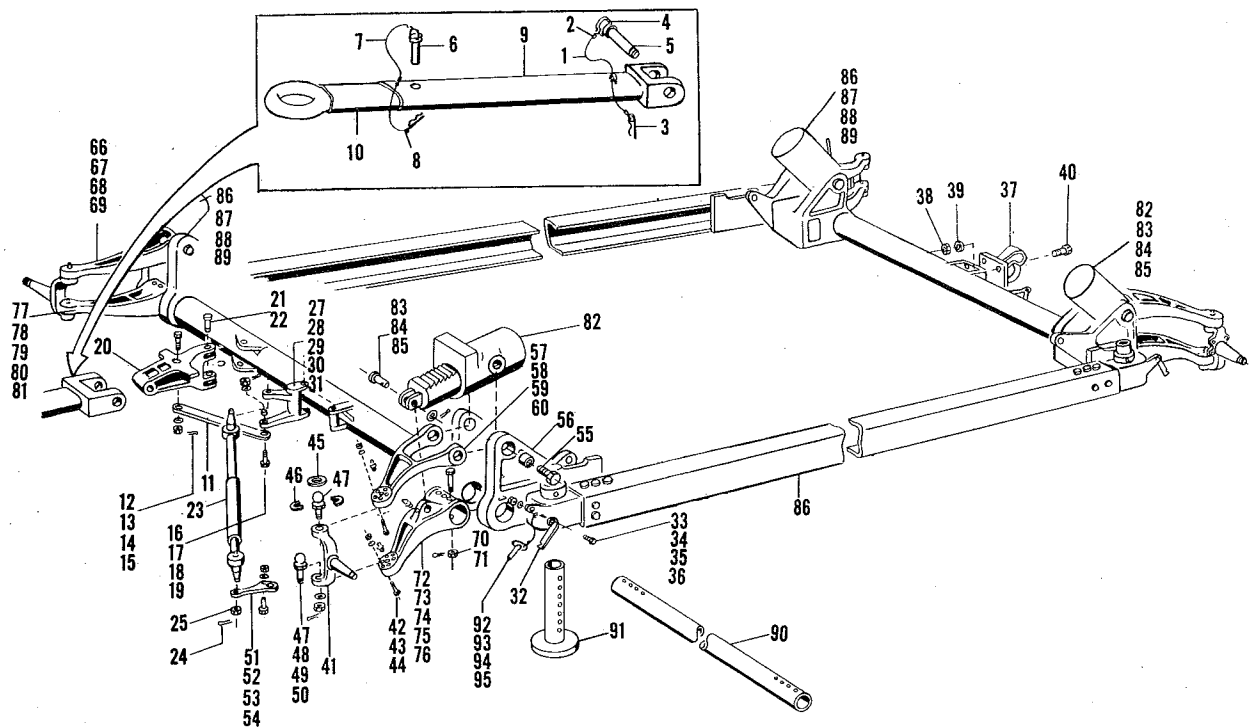


Figure 3-20. Chassis Assembly

3-24. DISASSEMBLY OF TIEROD ASSEMBLY.
(See figure 3-21.)

Disassembly is in the order of index numbers assigned

to the exploded view illustration paying particular attention to the following.

- a. Do not attempt disassembly of tierod end (1).

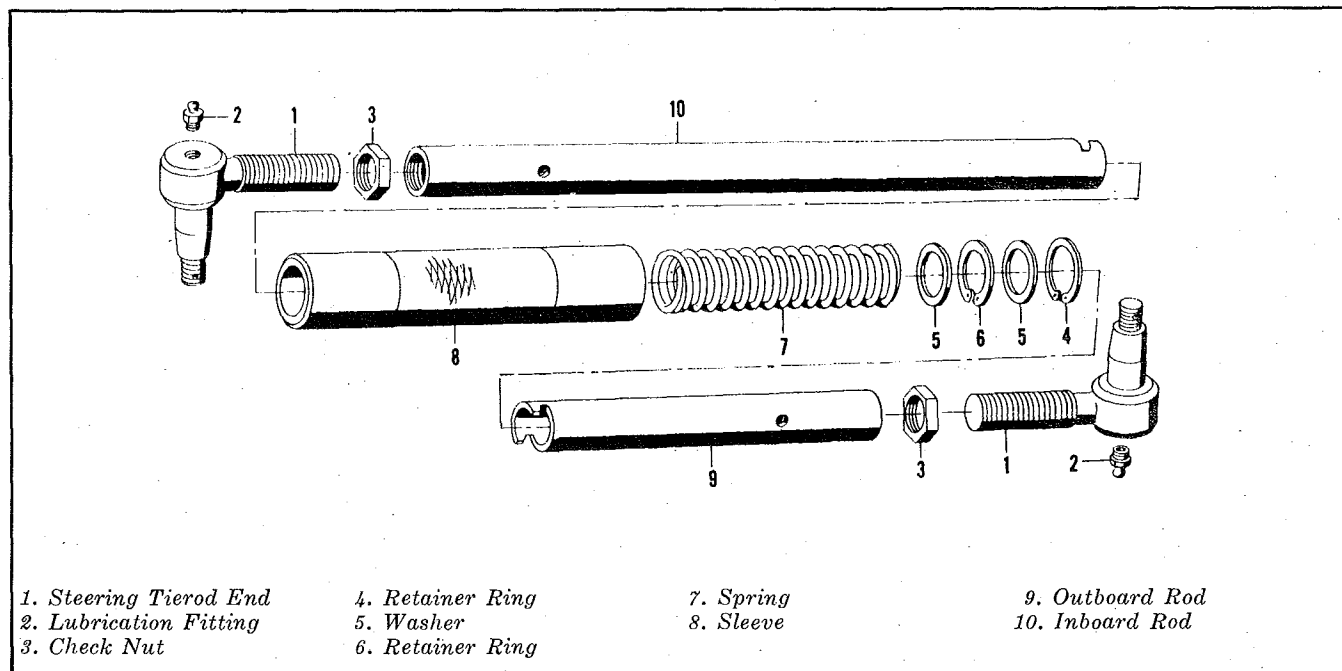


Figure 3-21. Steering Tierod Assembly, Part Nos. 111407 and 103006

3-25. DISASSEMBLY OF MAIN FRAME ASSEMBLY. (See figure 3-22.)

a. Disassembly is in the order of index numbers assigned to the exploded view illustration.

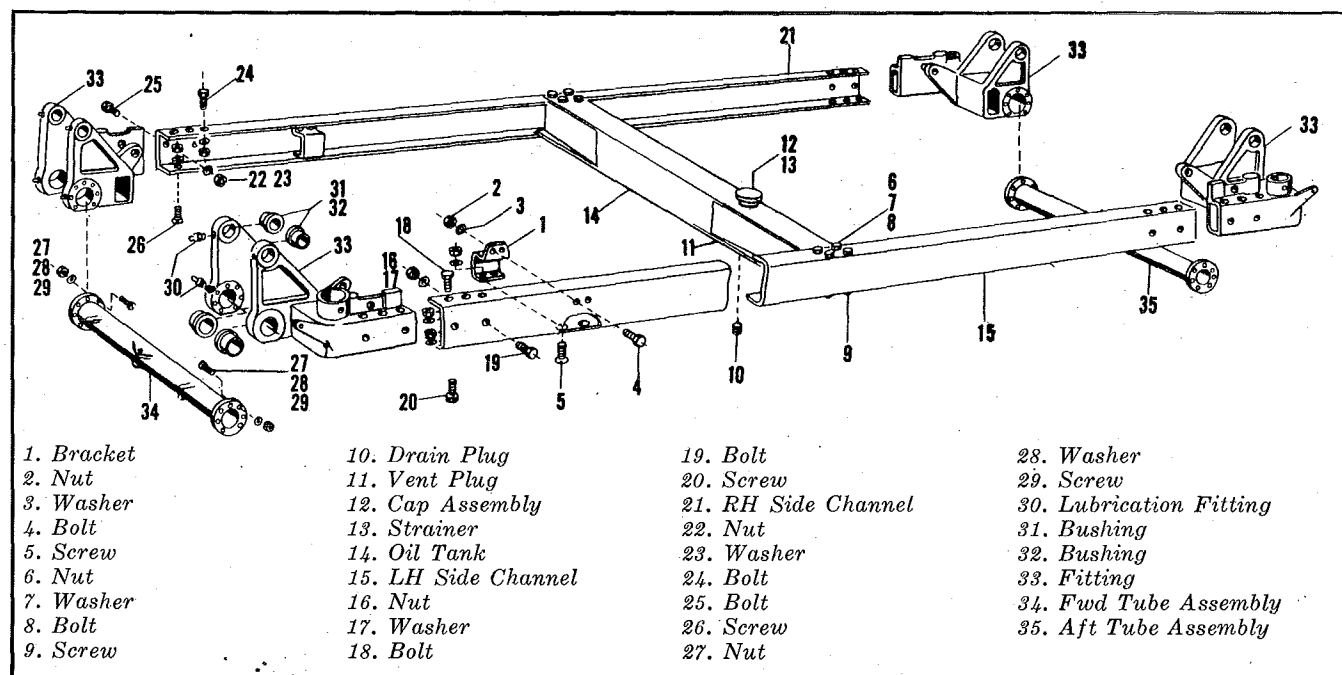


Figure 3-22. Main Frame Assembly, Part No. 102063

3-26. INSPECTION, REPAIR AND REPLACEMENT OF PARTS.

(See Figure 2-3, Periodic Inspection Table, Figure 2-5, Trouble Shooting Table and Figure 3-23, Table of Fits and Clearances.)

a. General inspection shall be in accordance with Figure 2-3, Periodic Inspection Table.

b. Inspection for excessive wear between critical mating parts shall be in accordance with Figure 2-23 Table of Fits and Clearances.

c. Any part distorted beyond practicable repair shall be replaced with new.

d. If wheel bearings are worn or damaged, replace with new.

e. If hydraulic valves, pumps and cylinders are worn, fractured, or if port threads are stripped beyond practicable repair, replace with new.

f. If threads and steering linkage are damaged or distorted beyond practicable repair, replace with new.

g. Distorted lift linkage, frame and chassis components may be straightened if adequate equipment is available, otherwise replace with new.

h. If tilt indicator is inoperative, replace with new.

3-27. TABLE OF FITS AND CLEARANCES.

(See Figure 3-23, Table of Fits and Clearances.)

Note

If clearances between parts listed in the following table are in excess of those specified, replace one or both mating parts with new, as necessary.

DESCRIPTION	FIG. & INDEX NO.	MATING PART DESCRIPTION	FIG. & INDEX NO.	MAXIMUM CLEARANCE
Sleeve Bearing	3-1(24)	PIN, Roller	3-1(22)	0.015 Max
BUSHING, Lower Lift Link	3-1(94)	PIN, Lower Link Pivot	3-1(91)	0.008 Max
BUSHING, Lower Lift Link	3-1(95)	BOLT BOLT	3-1(74) 3-1(81)	0.008 Max
BUSHING, Steering Crank	3-20(31)	BOLT	3-20(30)	0.005 Max
BUSHING, Upper Arm Wheel Support	3-20(58)	PIN, Upper Arm Wheel Support	3-20(63)	0.008 Max
BUSHING, Upper Arm Wheel Support	3-20(67)	SPACER, Upper Arm Wheel Support	3-20(56)	0.008 Max
INSERT, Wheel Arm Upper	3-20(60)	BALL, Wheel Spindle	3-20(47)	0.005 Max
INSERT, Wheel Arm Upper	3-20(69)	BALL, Wheel Spindle	3-20(47)	0.005 Max
INSERT, Wheel Arm Upper	3-20(81)	BALL, Wheel Spindle	3-20(47)	0.005 Max
BUSHING, Wheel Arm to Ram Attach	3-20(73)	PIN, Wheel Arm to Ram Attach	3-20(85)	0.010 Max
BUSHING, Main Frame Corner Fitting-Lower	3-22(31)	TUBE, Torque	3-20(90)	0.010 Max
BUSHING, Main Frame Corner Fitting-Lower	3-22(32)	PIN, Upper Arm Wheel	3-20(63)	0.008 Max
BUSHING, Main Frame Corner Fitting-Lower	3-22(32)	SPACER, Upper Arm Wheel Support	3-20(56)	0.008 Max

Figure 3-23. Table of Fits and Clearances

3-28. CLEANING.

3-29. Clean all parts thoroughly in cleaning solvent, Specification P-S-661, paying particular attention to the following:

CAUTION

When using cleaning solvent, Federal Specification P-S-661, follow precautionary action as outlined in Air Force publication AFR 160-59, "Precautionary Measures for Handling Solvents."

- Make certain all critical mating surfaces are free of rust, corrosion and solidified oil film.
- Make certain all pressure lines, valves ports and flow passages are free of obstruction.
- Make certain all threaded areas are free of grit and other foreign matter.
- Dry all parts thoroughly after cleaning.

3-30. LUBRICATION AT REASSEMBLY.

(See Figure 2-3., Lubrication Chart)

- Lubricate in accordance with Periodic Lubrication chart at each overhaul.

3-31. REASSEMBLY. (See figures 3-1 through 3-22.)

3-32. GENERAL.

3-33. Reassemble each group assembly in the reverse order of index numbers assigned to the applicable exploded view illustration, paying particular attention to the following:

- Support lift linkage assemblies with blocks or equivalent until hydraulic installation has been installed and reservoir filled.
- Make certain all linkage hinge points are properly aligned.

Note

After steering linkage and tierods have been installed, adjust front wheels to 1.5 degree toe in. Use standard shop practice for toe-in-adjustment.

- Make certain all attaching parts are secure and accounted for.

- Make certain all hydraulic lines and fittings are thoroughly clean and properly mated. Prior to installation, coat all straight threads with hydraulic oil, specification MIL-H-5606 and all tapered threads with anti-seize compound, specification JAN-A-669.

- When installing hydraulic rams make certain lubrication fittings are on the bottom side.

- Make certain all lubrication fittings (69 total) are clean and installed.

- Lubricate Trailer in accordance with figure 2-4, Lubrication chart after complete reassembly.

- Adjust brakes following standard mechanical brake adjustment procedure.

- Fill Hydraulic Reservoir with Fluid, Specification MIL-H-5606, to a depth of 3 inches. On Trailers, serial numbers 196 through 1320, Fill upper reservoir to within 1/2 inch of the fill opening.

Note

Reservoir must be filled with upper frame fully lowered, main frame lowered to transportation position, and the pump handles in down position.

3-34. TEST AFTER ASSEMBLY.

(See figures 3-24 and 3-25.)

3-35. Conduct Hydraulic System Tests As Follows:

Note

LIFT TEST and CHECK VALVE TEST must be conducted on both ends of the trailer.

- LIFT TEST (See figure 3-24).

- Adjust trailer rails to a medium level height.
- Attach chain (6000 lb. min. capacity) to the tie-down hole in one rail at end to be tested, pass chain down and behind the wheel spindle, around the lower ball joint, across to the other side, behind the wheel spindle and up to the tie-down hole in the other rail as shown. Secure a 4 in. x 4 in. spacer approximately 47-3/4 inches long between the rails, close to the chain, to prevent springing of the rails.

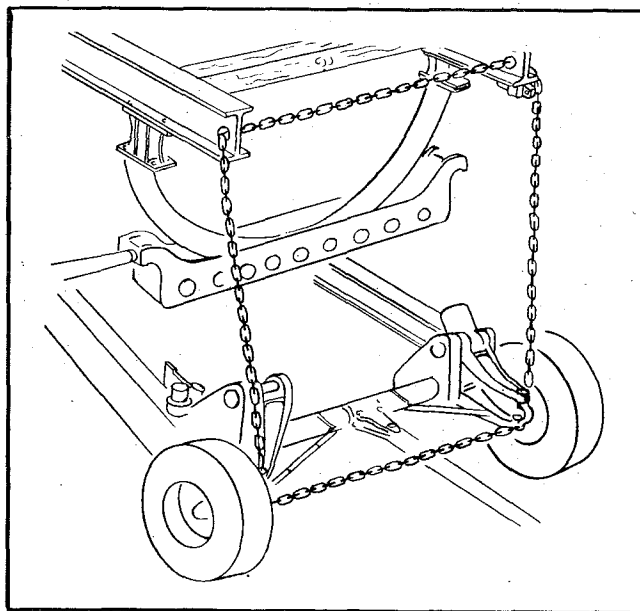


Figure 3-24. Lift Test

3. Apply lift to end being tested in accordance with paragraph 2-6 until load on pump handle becomes excessive. If hydraulic rails at opposite end do not extend more than $3/8$ inch during this test, the trailer may be operated under load at end tested.

4. Repeat test for opposite end of trailer.

Note

If hydraulic rails extend more than $3/8$ inch at end opposite end tested (step 3), the hydraulic system must be bled in accordance with paragraph 2-8.

b. CHECK VALVE TEST (See figure 3-25.)

Note

This test is applicable only to trailers bearing serial numbers 196 through 1320.

1. Accomplish steps 1 and 2 of "LIFT TEST".
2. Apply lift to end being tested until hydraulic rams at opposite end begin to extend.
3. Disconnect flexible hose (1) between pilot check valve and upper reservoir (2) at the reservoir end and cap reservoir fitting (3) with AN929-6 plug.
4. Open upper bleed plug (4) on the head of the LH hydraulic ram, opposite end being tested by backing off one complete turn.
5. Again apply lift to end being tested. If hydraulic fluid escapes from pilot check valve hose disconnected in step 3, the valve is faulty and must be replaced.

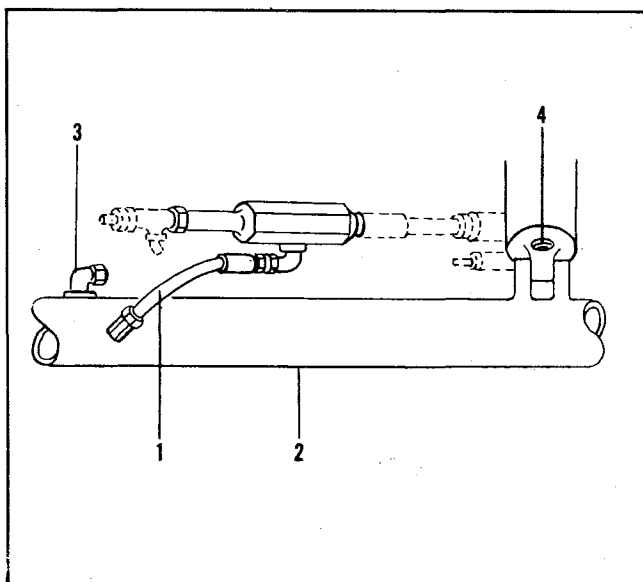


Figure 3-25. Check Valve Test

CAUTION

When replacing pilot check valve avoid screwing elbow fitting deeper than necessary so as to avoid damage to the new valve.

c. STATIC LOAD TEST.

1. Centrally position trailer to pick up a 16,000 pound load.

Note

The load should be centrally located and, if possible, distributed along the trailer rails.

2. Raise rails evenly in accordance with paragraph 2-6 until the full load is on the trailer.

3. Hold the load for two minutes. There shall be no settling of the trailer. If settling occurs, check the following and correct cause of failure:

- (a) All lines and connections for leakage.
- (b) Faulty pilot check valve — perform "Check Valve Test."

(c) Air in hydraulic system — bleed system in accordance with paragraph 2-8.

d. After satisfactory performance of all tests raise main frame and rails per paragraphs 2-4 and 2-6 to maximum height. The distance from the top of the rails to the floor shall measure 84 inches.

e. Fully lower rails and with the main frame elevated to transportation position, check the hydraulic fluid level in reservoir. Refill if necessary to a depth of 3 inches with fluid, Specification MIL-H-5606.

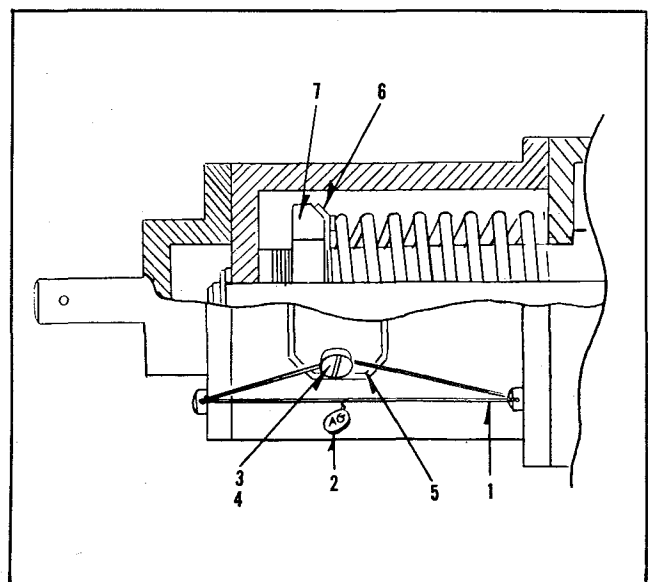


Figure 3-26. Winch Ratio Overload Adjustment

Section III

T.O. 35D3-3-34-1

Paragraphs 3-36 and 3-37

Note

On trailers, serial numbers 196 through 1320, check fluid level in upper reservoir and refill to within 1/2 inch of the fill opening.

3-36. WINCH RATIO BOX LOAD TEST.

- a. Accomplish steps 1 and 2 of "LIFT TEST".
- b. Attach chain (4000 lb. min. capacity) to winch drawbar (17, figure 2-1) and center of the chain between rails, with a dynamometer or similar force measuring device installed between the drawbar and chain.
- c. Apply load to winch by turning winch drive (18, figure 2-1). Overload clutch must disengage between 2400 and 2700 pounds reading on the force measuring device.

Note

If winch ratio box overload clutch disengages at less than 2400 pounds or does not disengage at 2700 pounds maximum, adjust overload clutch in accordance with paragraph 3-37.

- d. Repeat test utilizing the chain installed at opposite end of trailer.

3-37. WINCH RATIO BOX OVERLOAD CLUTCH ADJUSTMENT. (See figure 3-26.)

- a. Cut safety wire (1) and remove with attached lead seal (2).
- b. Remove identification plate (5) by removing 2 screws and lockwashers (3, 4).
- c. Straighten bent prong on washer (6).
- d. Adjust lock-nut (7) to required tension. Turn clockwise to increase tension.
- e. Check for correct overload disengagement per paragraph 3-36.
- f. Bend prong (6) to lock adjust nut (7).
- g. Reassemble identification plate (5) with two screws (3) and lockwashers (4).
- h. Safety wire, using 0.035 dia. corrosion resistant lockwire (MS20995C32-10) and lead seal as shown.

SECTION IV

PREPARATION FOR SHIPMENT

4-1. AIR SHIPMENT. (See figure 4-1.)

4-2. Fully lower trailer rails (see Paragraph 2-7, Section II) before loading trailer into aircraft. Secure four (4) foot assemblies in the maximum "Up" position and secure arc-shaped rail support tubes to upper frame, as illustrated with 3/4 inch wide by 0.35 inch thick steel strapping, one place, each end, diagonally located.

CAUTION

If loading is accomplished by use of a fork-type lift truck, fork extensions should be used for safe handling. Lift trailer only under the Main Frame and the Hydraulic Reservoir Tank. Avoid fork contact with the Reservoir Tank during the lifting operation.

4-3. After placing trailer in aircraft and spotting over the exact cargo floor location to which it is to be tied-down, lower Main Frame (see Paragraph 2-5, Section II), allowing Main frame to reset directly on the aircraft floor and the weight off the wheels.

4-4 Tie trailer down as illustrated in figure 4-1 using lateral Tie-Downs, Type MC-1 per MIL-T-8652. The Longitudinal Tie-Downs shall be the same as the Lateral type. The trailer tow bar shall be stowed in the "Up" position as illustrated using Tie-Down, Type MC-1 per MIL-T-8652 or webbing, Type X per MIL-W-4088.

4-5. All Tie Downs shall be cinched tight so as to prevent movement of the trailer under air loads.

4-6. Secure all items of loose equipment on the trailer that could move or vibrate during shipment.

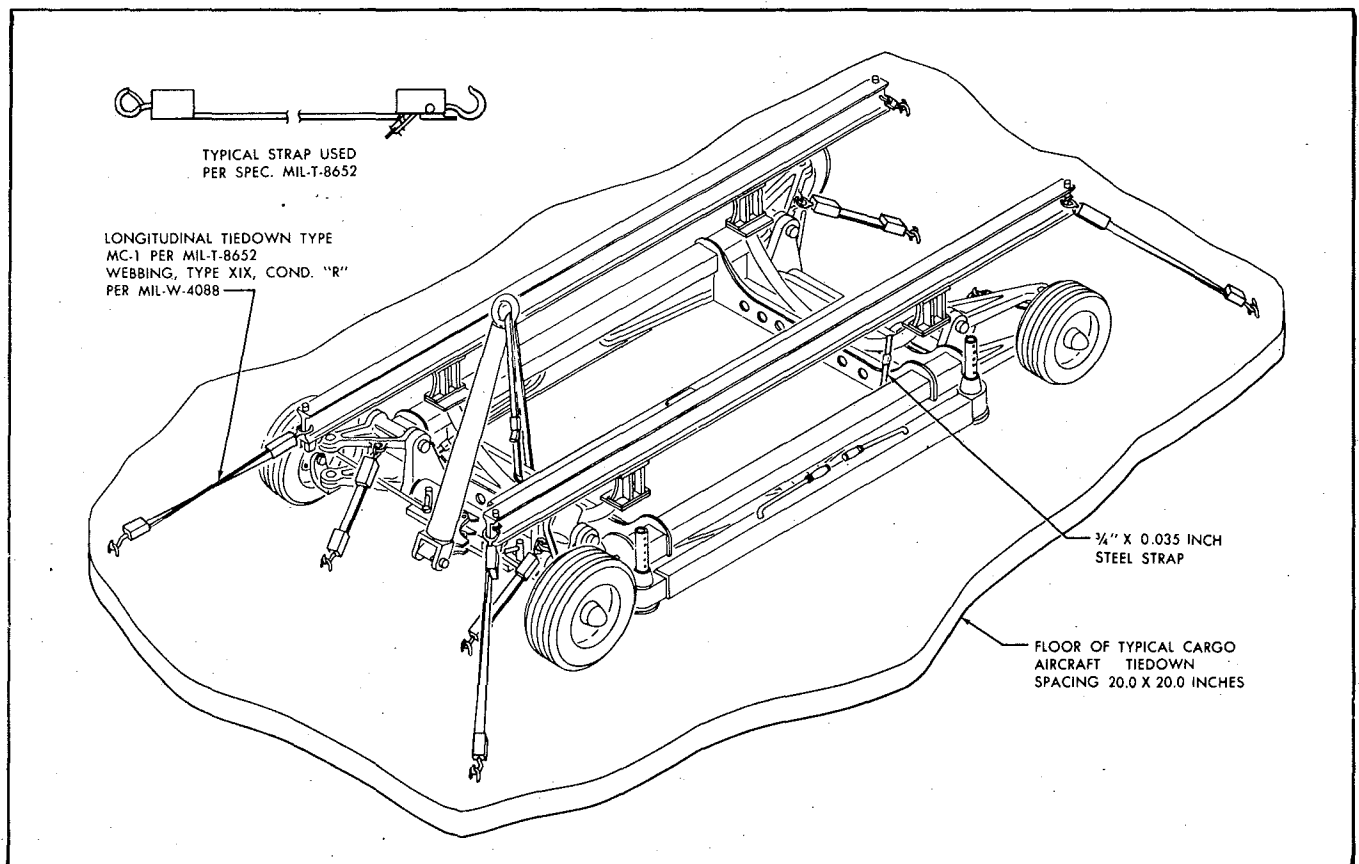


Figure 4-1. Tie-Down For Air Shipment

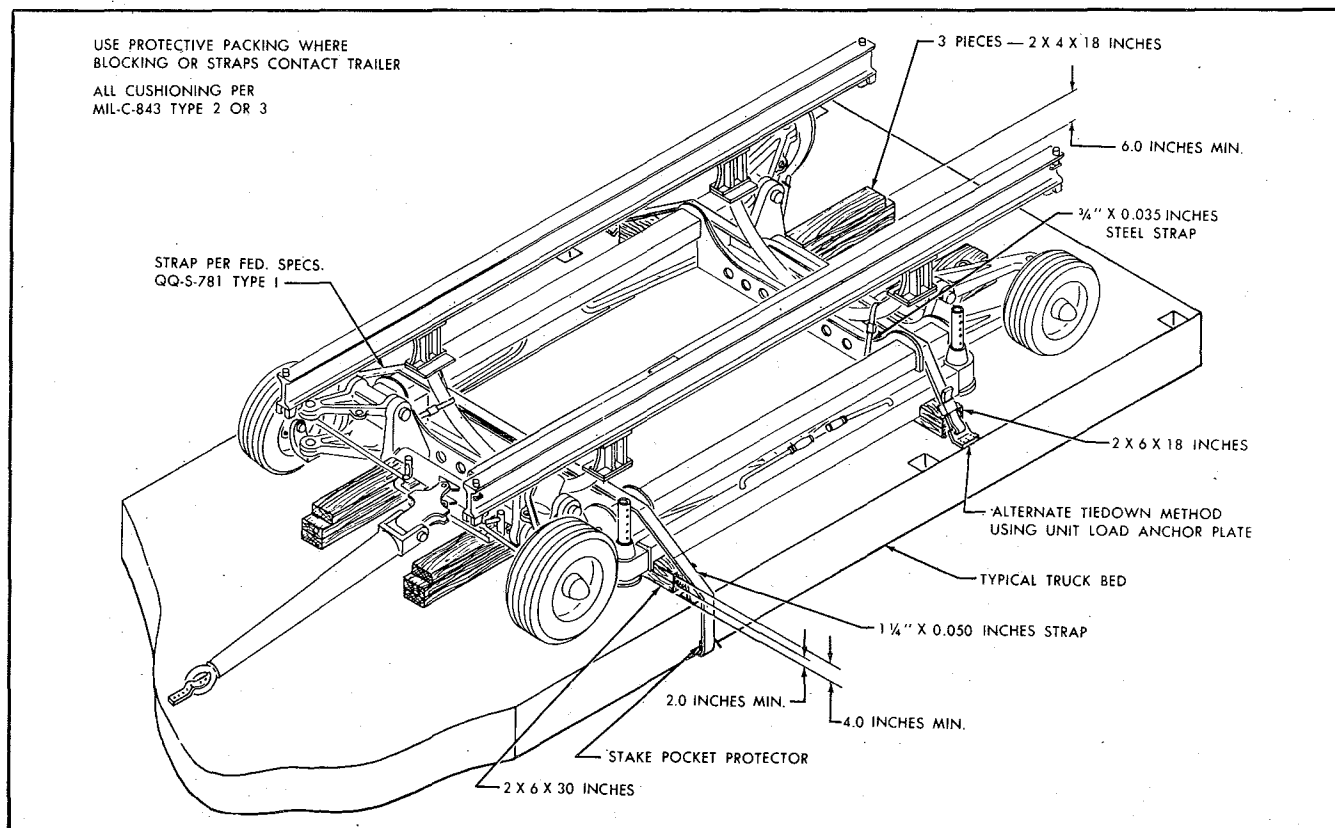


Figure 4-2. Tie-Down For Truck Shipment — Long Distance

4-7. TRUCK SHIPMENT, Long Distance. (See figure 4-2.)

4-8. Fully lower trailer rails (see Paragraph 2-7, Section II) before loading the trailer on truck bed. Secure four (4) foot assemblies in the maximum "Up" position and secure arc-shaped rail support tubes to upper frame, as illustrated, with 3/4 inch wide by .035 inch thick steel strapping, one place, each end, diagonally located.

CAUTION

If loading is accomplished by use of a fork-lift truck, fork extensions should be used for safe handling. Lift trailer only under the main frame and exercise extreme care to avoid damaging hydraulic lines located under the main frame and the hydraulic reservoir tank. Avoid fork contact with the reservoir tank during the lifting operation.

4-9. After positioning the trailer on the truck bed, locate the four (4) 2 x 6 x 30 wood blocks under the main frame, as shown in Figure 4-2 and lower the main frame (see Paragraph 2-5, Section II) so that the

main frame rests on the blocks and the trailer weight is off the wheels.

Note

If the truck bed is in good condition and flat, the main frame may be lowered directly to the truck bed, without using the wood blocks under the main frame.

4-10. Locate the 2 x 4 and 2 x 6 wood blocking for end and side movement, as shown in Figure 4-2, and nail blocking to truck bed.

4-11. Tie trailer down using 1-1/4 inch wide by .050 thick steel strapping per Federal Specification QQ-S-781, Type I, as shown in Figure 4-2. If stake pockets are available on the truck and suitably located, secure steel strapping to stake pockets. If stake pockets are not available, not suitably located, or cannot be utilized, secure ends of steel strapping to truck bed using unit-load anchor plates nailed securely to truck bed.

Note

Steel strapping shall *not* pass over the top of the aluminum transfer rails of the trailer, but over the end channels of the upper frame assembly, as illustrated in Figure 4-2, between the

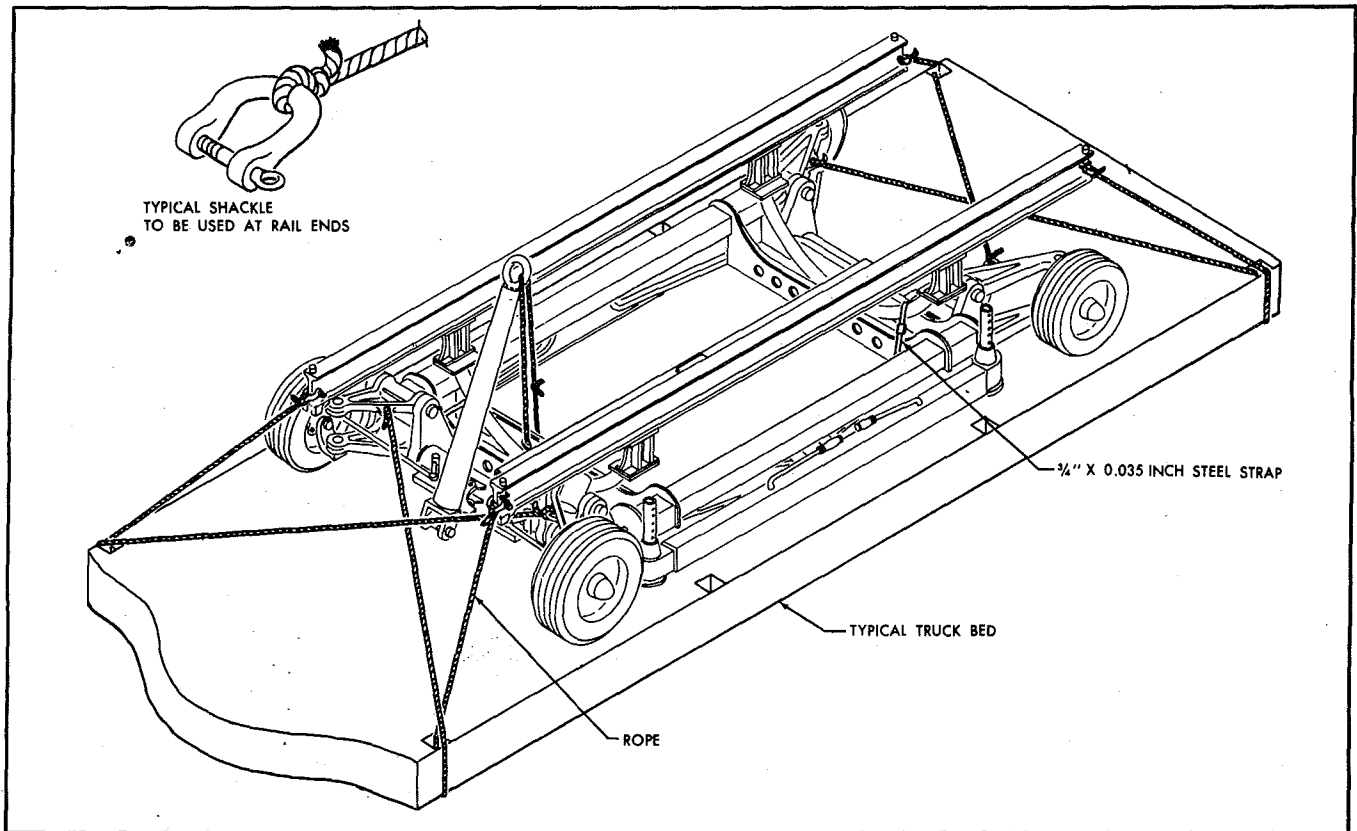


Figure 4-3. Tie-Down For Truck Shipment — Short Distance

side plate of the channels, and the arc-shaped rail support tubes.

Where steel strapping encircles stake pockets, stake pocket protectors shall be used to guard against sharp edges and increase the bending radius of the strapping so as to reduce the possibility of cracking the strapping.

4-12. The towbar may be located in the "Down" position, as illustrated, secured to the truck bed with 3/4 inch wide punched steel strapping, or in the "Up" position, secured in that position by tying with rope or steel strapping to a convenient member of the trailer.

CAUTION

When securing towbar, do not attach tie-down to reservoir tank.

4-13. TRUCK SHIPMENT, Short Distance.

(See figure 4-3.)

4-14. Fully lower trailer rails (see Paragraph 2-7, Section II) before loading the trailer on truck bed and

secure four (4) foot assemblies in the maximum "Up" position.

CAUTION

If loading is accomplished by use of a fork-type lift truck, fork extensions should be used for safe handling. Lift trailer only under the main frame and exercise extreme care to avoid damaging hydraulic lines located under the main frame and the hydraulic reservoir tank. Avoid fork contact with the reservoir tank during the lifting operation.

4-15. After positioning the trailer on the truck bed, locate the four (4) 2 x 6 x 3 wood blocks under main frame, as shown in Figure 4-2 and lower the main frame (see Paragraph 2-5, Section II) so that the main frame rests on the blocks and the trailer weight is off the wheels.

Note

If the truck bed is in good condition and flat, the main frame may be lowered directly to the truck bed, without using the wood blocks under the main frame.

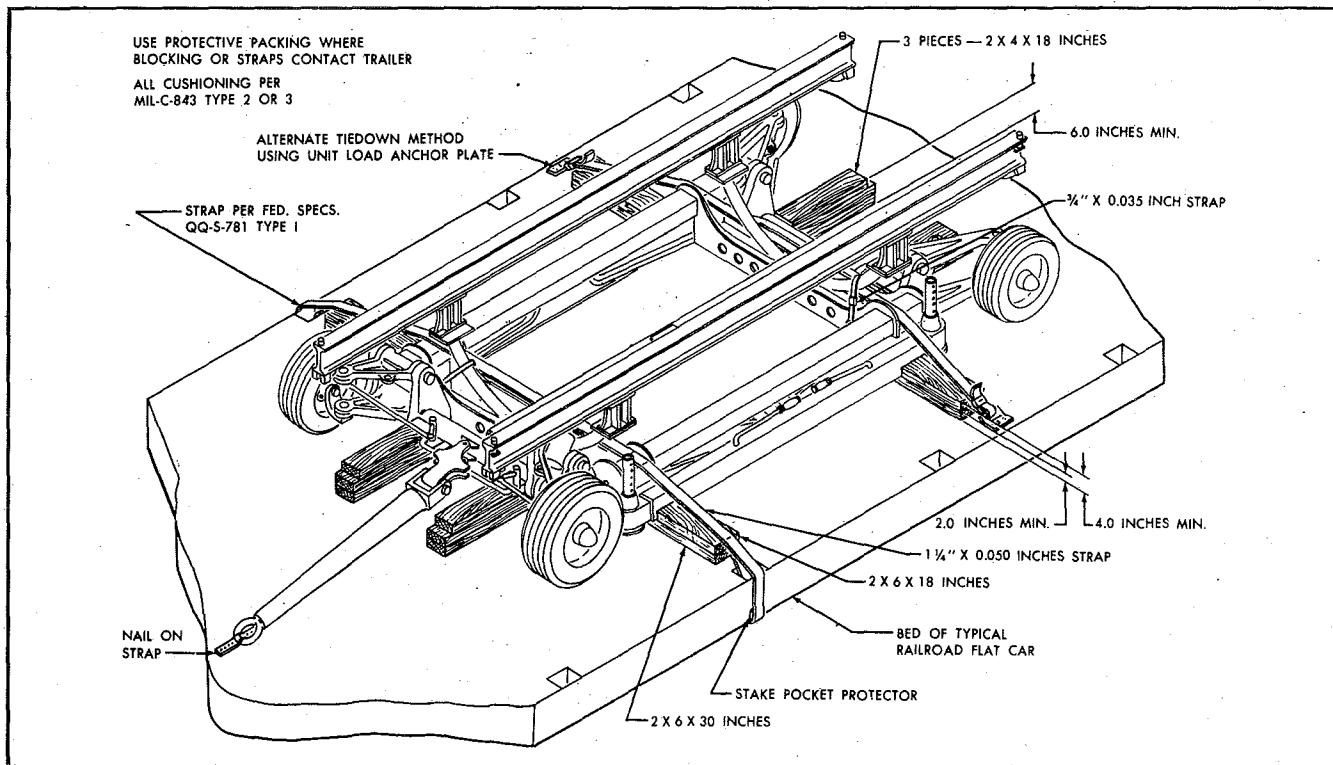


Figure 4-4. Tie-Down For Rail Shipment

4-16. Tie trailer down using high grade Manila rope in good condition, 1/2 inch minimum diameter, as shown in Figure 4-3. To secure trailer at ends of transfer rails, anchor shackles or similar fastening devices shall be attached through tie-down holes, and the rope attached to the shackles. Preload the rope as much as possible, and secure to tie-down hooks or rings on, or under the truck bed.

Note

If shipment is made in closed van, fabric tie-downs, as used for air shipment, and shown in Figure 4-1, may be used, if available.

When using rope, avoid bearing on sharp corners, or cushion all corners and edges where rope will contact.

4-17. Secure towbar in "Up" position by tying with rope or steel strapping to a convenient cross member of the trailer.

CAUTION

When securing towbar, do not attach rope or strap to reservoir tank.

4-18. Secure all items of loose equipment on the trailer, that could move or vibrate during shipment.

4-19. Use cellulosic- cushioning, per Federal Specification UU-C-843, or equivalent protective material, at all points where wood blocking or steel strapping contact the trailer.

4-20. Prior to movement, inspect all tie-downs for sufficient tightness to prevent movement of the trailer, while in transit.

4-21. RAIL SHIPMENT. (See figure 4-4.)

4-22. Fully lower trailer rails (see Paragraph 2-7, Section II) before loading the trailer and rail car bed. Secure four (4) foot assemblies in the maximum "Up" position and secure arc-shaped rail support tubes to upper frame, as illustrated, with 3/4 inch wide by .035 inch thick steel strapping, one place, each end, diagonally located.

CAUTION

If loading is accomplished by use of fork-type lift truck, fork extensions should be used for safe handling. Lift trailer only under the main frame and exercise extreme care to avoid damaging hydraulic lines located under the main frame and the hydraulic reservoir tank. Avoid fork contact with the reservoir tank during the lifting operation.

4-23. After positioning the trailer on the rail car bed, locate four (4) 2 x 6 x 30 wood blocks under the main frame as shown in Figure 4-4 and lower main frame (see Paragraph 2-5, Section II) so that the main frame rests on the blocks and the trailer weight is off the wheels. Spike wood blocks to rail car bed.

4-24. Locate the 2 x 4 and 2 x 6 wood blocking for end and side movement as shown in Figure 4-4 and nail blocking to rail car bed.

4-25. Tie trailer down using 1-1/4 inch wide by .050 inch thick steel strapping per Federal Specification QQ-S-781, Type I, as shown in Figure 4-4. If stake pockets are not suitably located, secure ends of steel strapping to rail car bed using unit-load anchor plates nailed securely to rail car bed.

Note

Steel strapping shall not *pass* over the top of the aluminum transfer rails of the trailer, but over the end channels of the upper frame assembly, as illustrated in Figure 4-4, between the side plate of the end channel and the arc-shaped rail support tube.

Where steel strapping encircles stake pockets, stake pocket protectors shall be used to guard against sharp edges and increase bending radius of the strapping so as to reduce the possibility of cracking the strapping.

4-26. The towbar may be located in the "Down" position, as illustrated, secured to the rail car bed with 3/4 inch wide punched (nail-on) steel strapping or in the "Up" position, secured with 3/4 inch wide by .035 inch thick steel strapping to a convenient structural member of the trailer.

CAUTION

When securing towbar in "Up" position, do not attach strapping to reservoir tank.

4-27. Secure all items of loose equipment on the trailer that could move or vibrate during shipment.

4-28. Use cellulosic cushioning per Federal Specification UU-C-843 or equivalent protective material at all points of contact between strapping, blocking and trailer surfaces.

