

# ***REED***



# ***A30HP***

**REED** TRAILER MOUNTED CONCRETE PUMP MODEL **A30HP**  
**ILLUSTRATED PARTS MANUAL** CONTAINS THE FOLLOWING GROUPS  
AND FIGURES:

**GROUP 00 HOW TO USE PARTS MANUAL**

**FIGURE 00** TABLE OF CONTENTS  
**FIGURE 01** HOW TO USE PARTS MANUAL  
**FIGURE 02** HOW TO ORDER PARTS

**GROUP 10 FINAL INSTALLATION**

**FIGURE 00** TABLE OF CONTENTS  
**FIGURE 01** FINAL INSTALLATION  
**FIGURE 02** DECAL ASSEMBLY

**GROUP 20 HOPPER INSTALLATION**

**FIGURE 00** TABLE OF CONTENTS  
**FIGURE 01** HOPPER INSTALLATION  
**FIGURE 02** HOPPER CLEAN OUT DOOR ASSEMBLY

**GROUP 30 TANK INSTALLATION**

**FIGURE 00** TABLE OF CONTENTS  
**FIGURE 01** TANK INSTALLATION

**GROUP 40 POWER TRAIN INSTALLATION**

**FIGURE 00** TABLE OF CONTENTS  
**FIGURE 01** POWER TRAIN INSTALLATION  
**FIGURE 02** BATTERY MOUNTING ASSEMBLY  
**FIGURE 03** HYDRAULIC PUMPS ASSEMBLY

**GROUP 50 CONTROLS INSTALLATION**

**FIGURE 00** TABLE OF CONTENTS  
**FIGURE 01** CONTROLS INSTALLATION  
**FIGURE 02** CONTROL BOX ASSEMBLY  
**FIGURE 03** CABLE REMOTE CONTROL ASSEMBLY  
**FIGURE 04** RADIO REMOTE CONTROL ASSEMBLY

**GROUP 60 PUMPING TRAIN INSTALLATION**

<b>FIGURE 00</b>	TABLE OF CONTENTS
<b>FIGURE 01</b>	PUMPING TRAIN INSTALLATION
<b>FIGURE 02</b>	SWING VALVE ASSEMBLY
<b>FIGURE 03</b>	SWING RAM CYLINDER SUB-ASSEMBLY
<b>FIGURE 04</b>	CONCRETE CYLINDER ASSEMBLY
<b>FIGURE 05</b>	FLUSHBOX ASSEMBLY
<b>FIGURE 06</b>	HYDRAULIC DRIVE CYLINDER ASSEMBLY
<b>FIGURE 07</b>	LEFT HAND SIDE DRIVE CYLINDER SUB-ASSEMBLY
<b>FIGURE 08</b>	RIGHT HAND SIDE DRIVE CYLINDER SUB-ASSEMBLY
<b>FIGURE 09</b>	CONTROL WITH CARTRIDGE MANIFOLD ASSEMBLY
<b>FIGURE 10</b>	REVERSE CIRCUIT PILOT SOLENOID VALVE ASSEMBLY
<b>FIGURE 11</b>	MAIN CYCLING CIRCUIT PILOT SOLENOID VALVE ASSEMBLY

**GROUP 70 FRAME INSTALLATION**

<b>FIGURE 00</b>	TABLE OF CONTENTS
<b>FIGURE 01</b>	FRAME INSTALLATION
<b>FIGURE 02</b>	HUB AND BRAKE ASSEMBLY
<b>FIGURE 03</b>	NON-OPERATOR SIDE ELECTRIC BRAKE ASSEMBLY
<b>FIGURE 04</b>	OPERATOR SIDE ELECTRIC BRAKE ASSEMBLY

**GROUP 80 OPTIONAL INSTALLATION**

<b>FIGURE 00</b>	TABLE OF CONTENTS
<b>FIGURE 01</b>	OPTIONAL INSTALLATION
<b>FIGURE 02</b>	OPTIONAL TOOL KIT ASSEMBLY
<b>FIGURE 03</b>	ACTUATOR BRAKES ASSEMBLY
<b>FIGURE 04</b>	WATER PUMP INSTALLATION
<b>FIGURE 05</b>	WATER PUMP CONTROL VALVE ASSEMBLY
<b>FIGURE 06</b>	WATER PUMP MOTOR ASSEMBLY
<b>FIGURE 07</b>	WATER PUMP ASSEMBLY
<b>FIGURE 08</b>	NON-OPERATOR SIDE HYDRAULIC BRAKE ASSEMBLY
<b>FIGURE 09</b>	OPERATOR SIDE HYDRAULIC BRAKE ASSEMBLY

## I. PURPOSE

This parts manual is prepared, issued and/or revised by **REED** Manufacturing, for the exclusive use of its customers and is intended for use in provisioning, requisitioning, storing and issuing replaceable **REED** trailer mounted pump model **A30HP**. The contents are proprietary to **REED** and are subject to change without notice. The use of any part of this document by any other person or persons or for any other purpose without the written consent of **REED** is expressly prohibited. In addition, **REED** expressly disclaims any and all responsibility arising in or any way related to such **REED's** prior written consent thereto.

The parts number content of this document, arrangement and breakdown sequence of items is compatible with Military Standard (**MS**) and Air Transport Association Specification (**ATA**).

## II. GENERAL SYSTEM OF ASSEMBLY ORDER – Detailed Parts List (Refer to Next Page)

1. This area refers to the corresponding illustration

### MODEL – GROUP – FIGURE – PAGE

A. **MODEL** shows which is **REED's** model number.

B. **GROUP** should be divided with:


00	MODEL <b>A30HP</b> PARTS MANUAL
10	FINAL INSTALLATION
20	HOPPER INSTALLATION
30	TANK INSTALLATION
40	POWER TRAIN INSTALLATION
50	CONTROL INSTALLATION
60	PUMPING TRAIN INSTALLATION
70	FRAME INSTALLATION
80	OPTIONAL INSTALLATION

C. **FIGURE** belong to the group. Please see page of contents and each group.

D. **PAGE** numbers follow to the right of each figure number.

2. The **ITEM NUMBER** corresponds to the item number shown for the part in illustration. Parts with item number preceded by a dash (such as: -1, -5, -12 etc.) are not illustrated.

3. **PARTS NUMBERS** that carry a **REED** part number.

2	3	4	5	1
2	3	4	5	
<div> <div>  <div> <b>DUAL SHIFT SWING VALVE ASSEMBLY</b> </div> </div> <div> <b>01 B40 PARTS</b> GROUP 60 FIGURE 04 PAGE 02         </div> </div>				
ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY	
-1	60-04	Assembly, Dual Shift Swing Valve (See Group 60, Figure 02 for NHA)	Ref	
-2	86321	• Assembly, Outlet Group	1	
3		• • Nut	6	
4	72482	• • Outlet, Machine 5"	1	
5		• • Fitting, Grease	2	
6	79895	• • Kit, Outlet Seal	1	
7	77761	• • • O-Ring, Large	1	
8	77762	• • • O-Ring, Small	1	
9	86504	• • • Seal, Modified Outlet Thick	1	
10	77763	• • • Band, Guide	1	
11	77765	• • • Seal, Outlet Thick	1	
12	72309	• • Housing, Outlet Seal	1	
13		• • Bolt, Hex	6	
14		• • Nut, Nylock (attaching parts)	6	
15		• • Washer, Lock (attaching parts)	6	
16	70042	• • Outlet, Chromed	1	
17		• • Bolt, Hex (attaching parts)	6	
-18	86317	• Assembly, Swing Tube Group	1	
19	85965	• • Weldment, Harsh Swing Tube	1	
20	86065	• • Seal, 6 Inch Single Lip	1	
21	72310	• • Ring, 6 Inch Single Lip Wear	1	
22	86031	• • Plate, Wear	1	
23	86086	• • Ring, Anti Chip	2	
24		• • Bolt, Flat Head	4	
25		• • Washer, Lock	4	
26		• • Nut, Hex	4	
27		• • Bolt, Hex	6	
28		• • Washer, Lock	6	
29	85962	• • Seal, Flange Bearing	1	
30		• • Pin, Dowel	1	
31		• • Fitting, Grease 90	2	
32	85133	• • Bearing, 3 Inch Spline Flange	1	
33	85294	• • Washer, Thrust	1	
34	85134	• • Spacer, Swing Tube Nut	1	
35	70825	• • Nut, Swing Tube	1	
36		• • Pin Cotter	1	
-37	86320	• Assembly, Swing Tube Dual Shift Group	1	
38		• • Plug, Pipe	4	
39	86052	• • Pin, Spring	4	
40		• • Fitting, Grease 90	2	
41	86441	• • Retainer, Swing Ram	2	
DASH (-) ITEM NOT ILLUSTRATED				
REVISION:				

#### 4. DESCRIPTION

- A. The **INDENTURE SYSTEM** used in the parts list shows the relationship of one part to another. For a given item, the number of indentures depicts the relationship of the item to the components of the item as follows:

**1 2 3 4 5**

**Assembly (or Installation)**

- **Detail part of assembly**
- **Sub-assembly**
- **Attaching parts for sub-assembly**
- • **Detail part of sub-assembly**
- • **Sub-sub-assembly**
- • **Attaching parts for sub-sub-assembly**
- • • **Detail part of sub-sub-assembly**
- • • **Sub-sub-sub-assembly**
- • • **Attaching parts of sub-sub-sub-assembly**
- • • • **Detail part of sub-sub-sub-assembly**

- B. "See Group 60, Figure 02 For **NHA**"

Identifies the illustrated parts chapter location; indicates where the Next Higher Assembly (**NHA**) of the item shown.

- C. "See Group 60, Figure 07 For **DET**"

Identifies the illustrated parts chapter location; indicates where the item and its Detailed Breakdown (**DET**) is shown.

- D. "See Group 30, Figure 05 for **REF**" or "See Vendor Chapter For **REF**"

Identifies the illustrated parts chapter where the part is, and if listed and illustrated in Vendor Chapter. It is used as a cross-reference (**REF**).

#### 5. QUANTITY

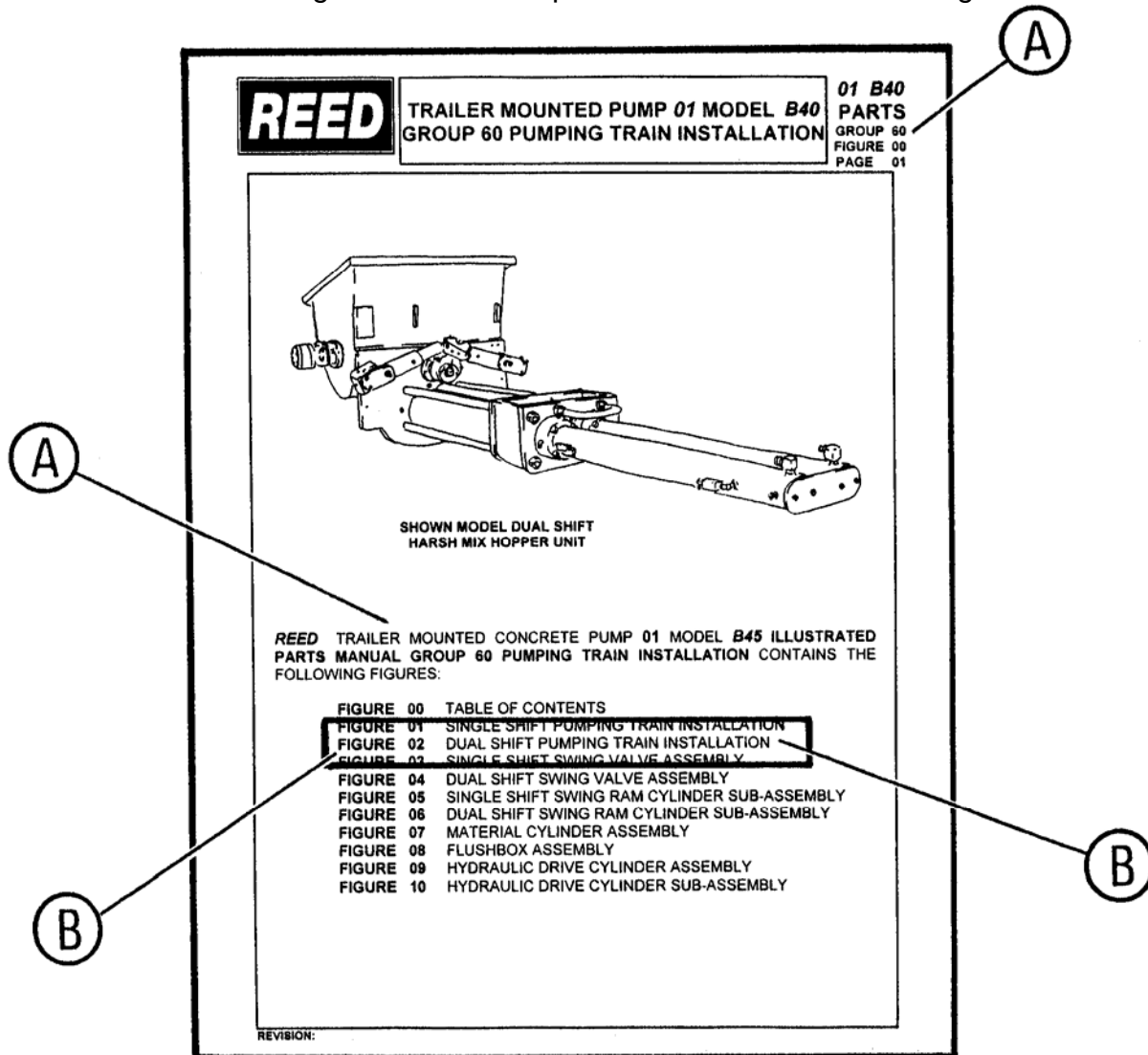
- A. Reference (**REF**) indicates the items that is listed previously in the Next Higher Assembly (**NHA**) and then again in this figure.
- B. As Required (**A/R**) indicates the parts that is used in a quantity as required.
- C. A number entry indicates the quantity of the part used in its next higher application.

6. Functionally related assemblies are illustrated in phantom ( — — — ) but not listed on the detail parts list page.

1. Always give serial number and model of **REED** trailer mounted concrete pump model **A30HP**. (Refer to each unit name plate shown below). NOTE: This manual is being released to cover unit starting with serial number **3-04-1-2120** to current production. Some components used on earlier units differ from current productions. Where this occurs, the part is identified by a serial number.

<b>REED</b> 13822 OAKS AVENUE CHINO, CA 91710 USA		PHONE (909) 287-2100 FAX (909) 287-2140	
MODEL		SERIAL NO	
MATERIAL PRESSURE		PSI	
HYDRAULIC PRESSURE		PSI	
ENGINE / PTO ELECTRIC MOTOR		RPM	
PN 96636			

2. Always specify part number and complete name of parts ordered.
  - A. Turn to table of content in the desired Installation. Refer to main group in which part should be listed.
  - B. Find title of figure in which the part should be shown. Note figure number.



**REED** **DUAL SHIFT SWING VALVE ASSEMBLY** 01 B40 PARTS GROUP 80 FIGURE 04 PAGE 01

HOPPER REF (STANDARD P/N: 88107) (HARSH MIX P/N: 88032)

SWING RAM HOUSE REF (RH P/N: 85941) (LH P/N: 85942)

REVISION:

**REED** **DUAL SHIFT SWING VALVE ASSEMBLY** 01 B40 PARTS GROUP 80 FIGURE 04 PAGE 02

ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
-1	60-04	Assembly, Dual Shift Swing Valve (See Group 80, Figure 02 for NHA)	Ref
-2	86321	• Assembly, Outlet Group	1
3		• • Nut	6
4	72482	• • Outlet, Machine 5"	1
5		• • Fitting, Grease	2
6	79895	• • Kit, Outlet Seal	1
7	77761	• • • O-Ring, Large	1
8	77762	• • • O-Ring, Small	1
9	86504	• • • Seal, Modified Outlet Thick	1
10	77763	• • • Band, Guide	1
11	77765	• • • Seal, Outlet Thick	1
12	72309	• • Housing, Outlet Seal	1
13		• • Bolt, Hex	6
14		• • Nut, Nylock (attaching parts)	6
15		• • Washer, Lock (attaching parts)	6
16	70042	• • Outlet, Chromed	1
17		• • Bolt, Hex (attaching parts)	6
-18	86317	• Assembly, Swing Tube Group	1
19	85965	• • Weldment, Harsh Swing Tube	1
20	86085	• • Seal, 6 Inch Single Lip	1
21	72310	• • Ring, 6 Inch Single Lip Wear	1
22	86031	• • Plate, Wear	1
23	86086	• • Ring, Anti Chip	2
24		• • Bolt, Flat Head	4
25		• • Washer, Lock	4
26		• • Nut, Hex	4
27		• • Bolt, Hex	6
28		• • Washer, Lock	6
29	85962	• • Seal, Flange Bearing	1
30		• • Pin, Dowel	1
31		• • Fitting, Grease 90	2
32	88193	• • Bearing, 3 Inch Spine Flange	1
33	85294	• • Washer, Thrust	1
34	86184	• • Spacer, Swing Tube Non	1
35	70625	• • Nut, Swing Tube	1
36		• • Pin Cotter	1
-37	86320	• Assembly, Swing Tube Dual Shift Group	1
38		• • Plug, Pipe	4
39	86082	• • Pin, Spring	4
40		• • Fitting, Grease 90	2
41	86441	• • Retainer, Swing Ram	2

DASH (-) ITEM NOT ILLUSTRATED

REVISION:

**C.** Turn to corresponding page, find the group and figure.

**D.** Check your required part and its attaching parts and match with illustration page.

**E.** Refer to corresponding item number in the part list page.  
Part numbers are located in the part number column.

**F.** When ordering variable or optional miscellaneous parts which are not found this in parts chapter, follow the above outlined procedure of how to order parts.

- 1). When applicable, give model and serial number of the component for which parts are desired.
- 2). In a specific, difficult to describe situation, a marked-up photograph or detailed sketch would be helpful.





## TRAILER MOUNTED PUMP MODEL A30HP HOW TO ORDER PARTS

**A30HP**

**PARTS**

GROUP 00

FIGURE 02

PAGE 03

3. Do not designate quantity by "set". State specifically how many parts are wanted.
4. Always give complete address and full shipping instructions. Specify shipping instructions, truck freight, air freight. United Parcel Service (UPS), or Air Borne Express and DHL are available in designated areas.

### 5. TO ORDER

#### A. BY MAIL

Attention: Parts Department

**REED LLC**

13822 Oaks Avenue  
Chino, CA. 91710 - 7008

#### B. BY FAX

(909) 287 - 2141

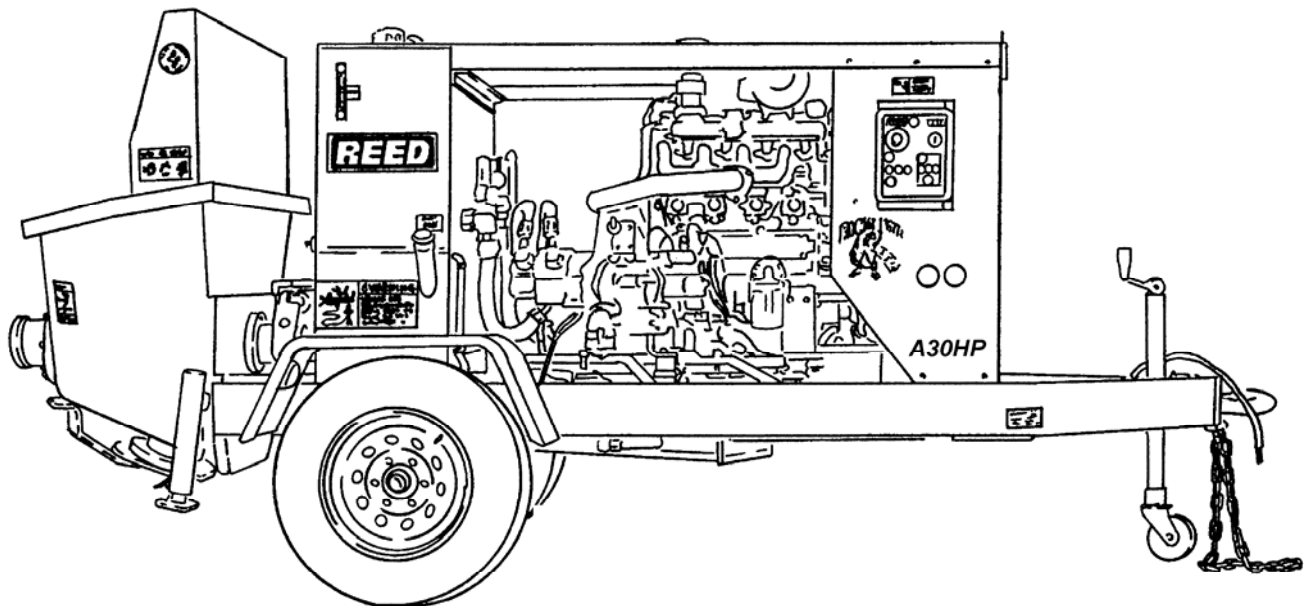
#### C. BY PHONE

(909) 287 - 2100

6. Parts return without authorization will not be accepted. If it is necessary to return parts for any reason, written authorization may be obtained from **REED** Parts Department, Chino, CA. 91710-7008. A Parts Return Authorization form is provided when **REED** deems its necessary to have the part returned for evaluation. The form is issued by the Warranty of Parts Department of **REED**.
  - A. The form will be filled by **REED** unless requesting necessary information and you will receive a copy as well as shipping tag.
  - B. Attach shipping tag to part insert return original invoice.
  - C. Ship part to **REED PREPAID**.
  - D. Part must be returned to **REED** within 30 days from date of authorization.

**REED** TRAILER MOUNTED CONCRETE PUMP MODEL **A30HP** ILLUSTRATED PARTS MANUAL GROUP 10 FINAL INSTALLATION CONTAINS THE FOLLOWING FIGURES:

- FIGURE 00** TABLE OF CONTENTS
- FIGURE 01** FINAL INSTALLATION
- FIGURE 02** DECAL ASSEMBLY





## FINAL INSTALLATION

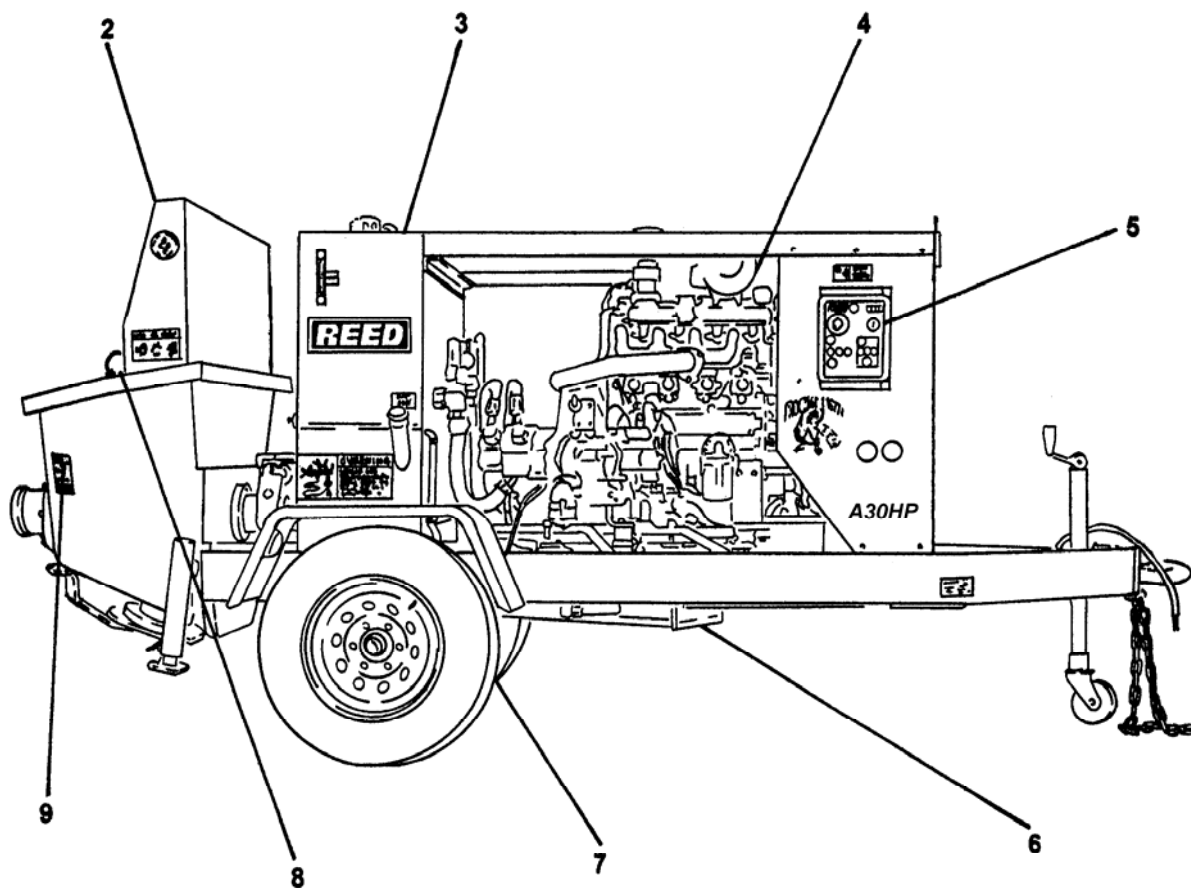
**A30HP**

**PARTS**

GROUP 10

FIGURE 01

PAGE 01



REVISION:



## FINAL INSTALLATION

**A30HP****PARTS**

GROUP 10

FIGURE 01

PAGE 02

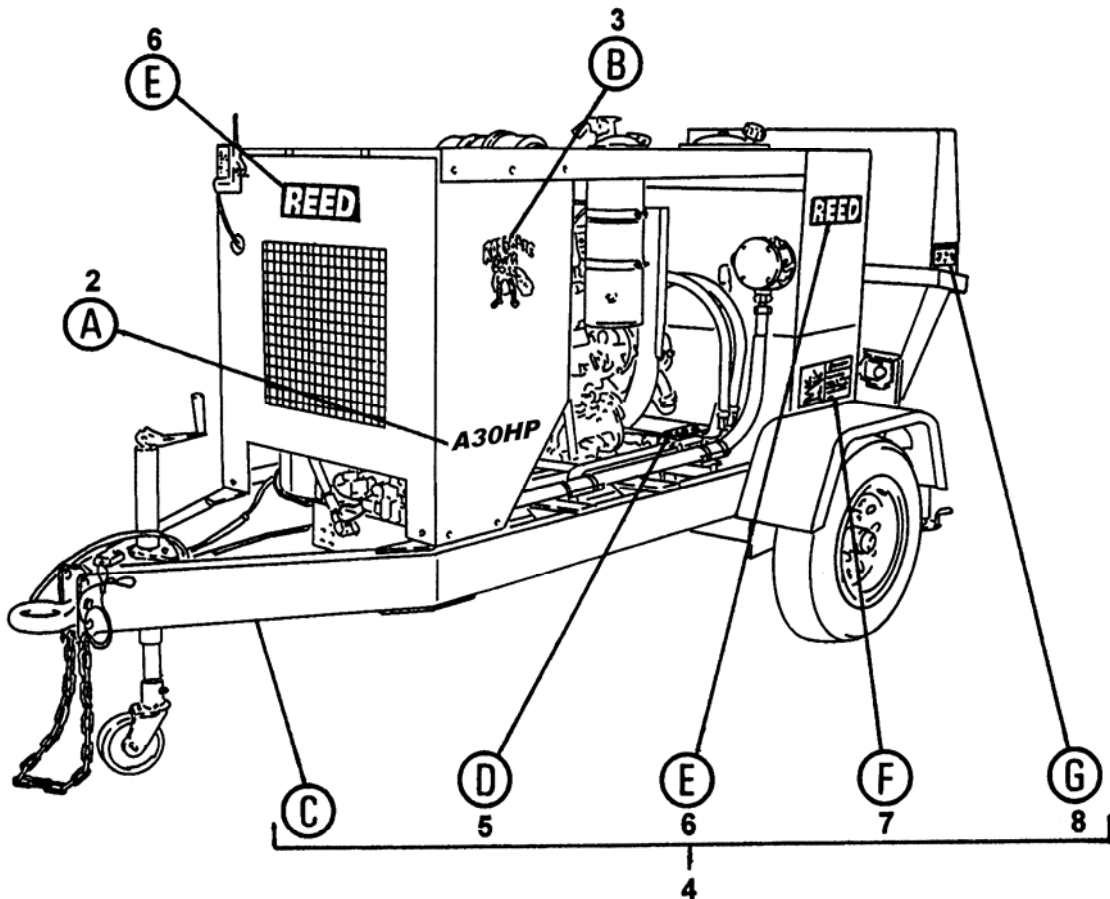
ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	<b>A30HP-V02</b>	Installation, <b>A30HP</b> Final	Ref
2	20-01	• Installation, Hopper (See Group 20, Figure 01 for DET)	1
3	30-01	• Installation, Tank (See Group 30, Figure 01 for DET)	1
4	40-01	• Installation, Power Train (See Group 40, Figure 01 for DET)	1
5	50-01	• Installation, Control (See Group 50, Figure 01 for DET)	1
6	60-01	• Installation, Pumping Train (See Group 60, Figure 01 for DET)	1
7	70-01	• Installation, Frame (See Group 70, Figure 01 for DET)	1
8	80-01	• Installation, Optional (See Group 80, Figure 01 for DET)	1
9	BW10274	• Group, <b>A30HP</b> Decal (See Group 10, Figure 02 for DET)	1

REVISION:



DECAL ASSEMBLY

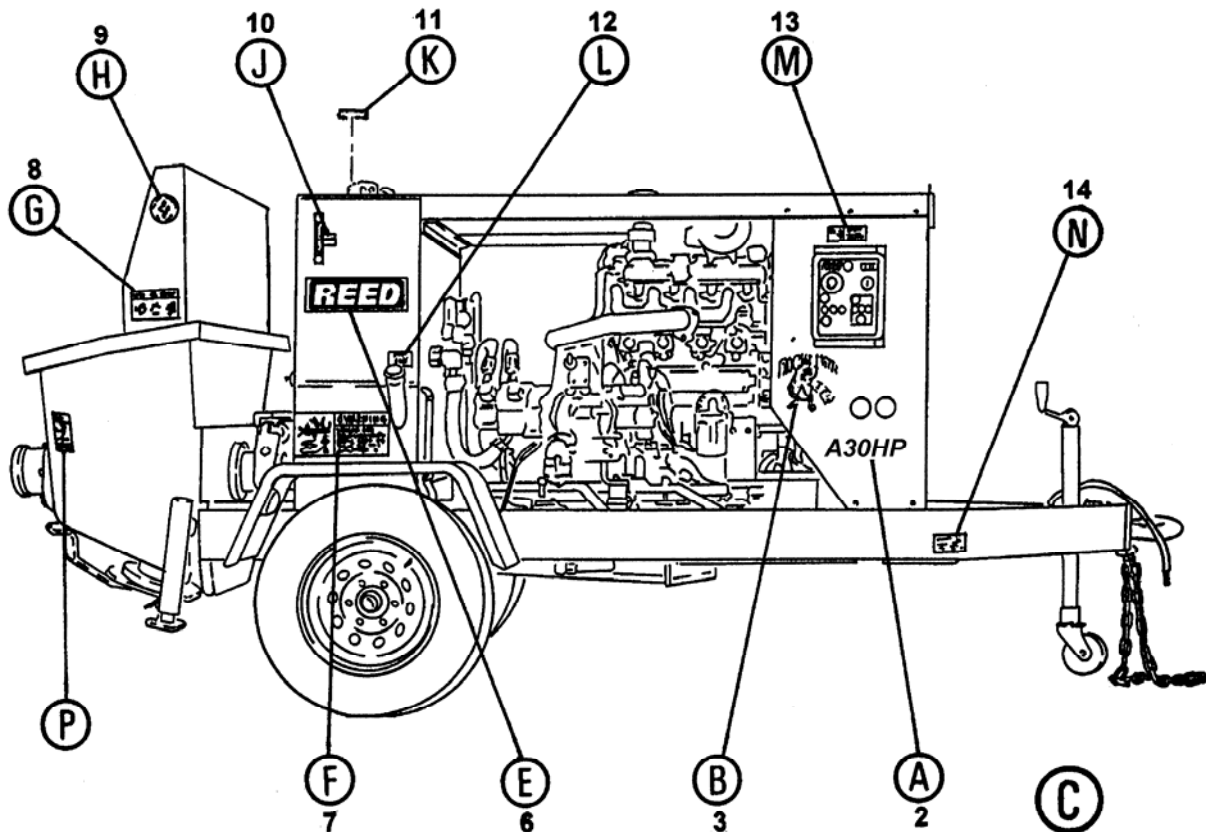
A30HP  
PARTS  
GROUP 10  
FIGURE 02  
PAGE 01



**A30HP**

2





ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	BW10274	Group, <b>A30HP</b> Decal (See Group 10, Figure 01 for NHA)	Ref
2	BW10275	• Decal, <b>A30HP</b>	2
3	BW10100	• Decal, 7 1/4 X 7 Inch <b>ROCKMAN</b>	2
4	BW10121	• Kit, A-Series Decal	1
5	800916	• • Decal, Warning, Keep Hand Out of Water Box	1
6	BW10128	• • Decal, <b>REED</b> 4 1/4 X 12 1/2 Inch	3
7	800924	• • Decal, Warning, This Machine is Remote Controlled and	2
8	800929A	• • Decal, Warning	2
9	800931	• • Decal, <b>ACPA</b> Member	1
10	85844	• • Decal, Oil Level	1
11	75020	• • Decal, Hydraulic Oil	1
12	75017	• • Decal, Diesel Fuel Only	1
13	800926	• • Decal, Warning, Do Not Operate This Machine without	1
14	86636	• • Nameplate, <b>REED</b> , Serial No.	1
15	800921	• • Decal, Warning, Do Not Operate at Pressures Exceeding	1
16	73132	• • Decal, <b>REED</b> 4 1/2 Inch	1
17	800922	• • Decal, Warning, Before Opening a Blocked Pipeline,	1
18	800918	• • Decal, Warning, Do Not Stand on Hopper Grate	2

DASH (-) ITEM NOT ILLUSTRATED



DECAL ASSEMBLY

A30HP  
PARTS  
GROUP 10  
FIGURE 02  
PAGE 03



**! WARNING**  
Keep hands out of  
waterbox.  
Stop engine/motor if  
access is required.  
Keep guards in place.

800916

5  
D

6



E



**! WARNING**  
This machine is  
remote controlled and  
may start at any time.  
Stop engine before  
servicing unit.

800924

F

7



(G)

8



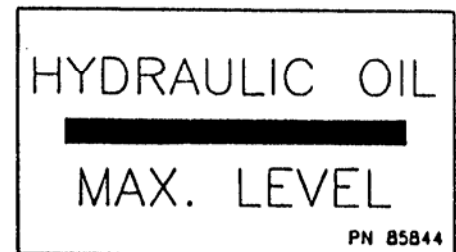
9

(H)



13

(M)



PN 85844

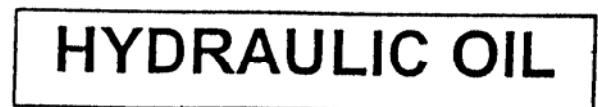
10

(J)



12

(L)



11

(K)





DECAL ASSEMBLY

A30HP  
PARTS  
GROUP 10  
FIGURE 02  
PAGE 05

**REED**  
13822 OAKS AVENUE  
CHINO, CA 91710 USA

PHONE (909) 287 - 2100  
FAX (909) 287 - 2140

MODEL  SERIAL NO.

MATERIAL  PSI  BAR

PRESSURE

HYDRAULIC  PSI  BAR

PRESSURE

ENGINE / PTO  RPM  VOLTS

ELECTRIC MOTOR

PN 86636

14

(N)

16

15  
(Q)

17  
(R)

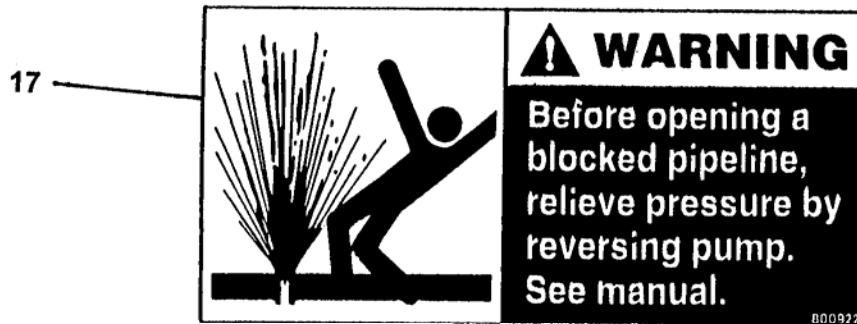
18  
(S)

18  
(S)

(P)



Q



R



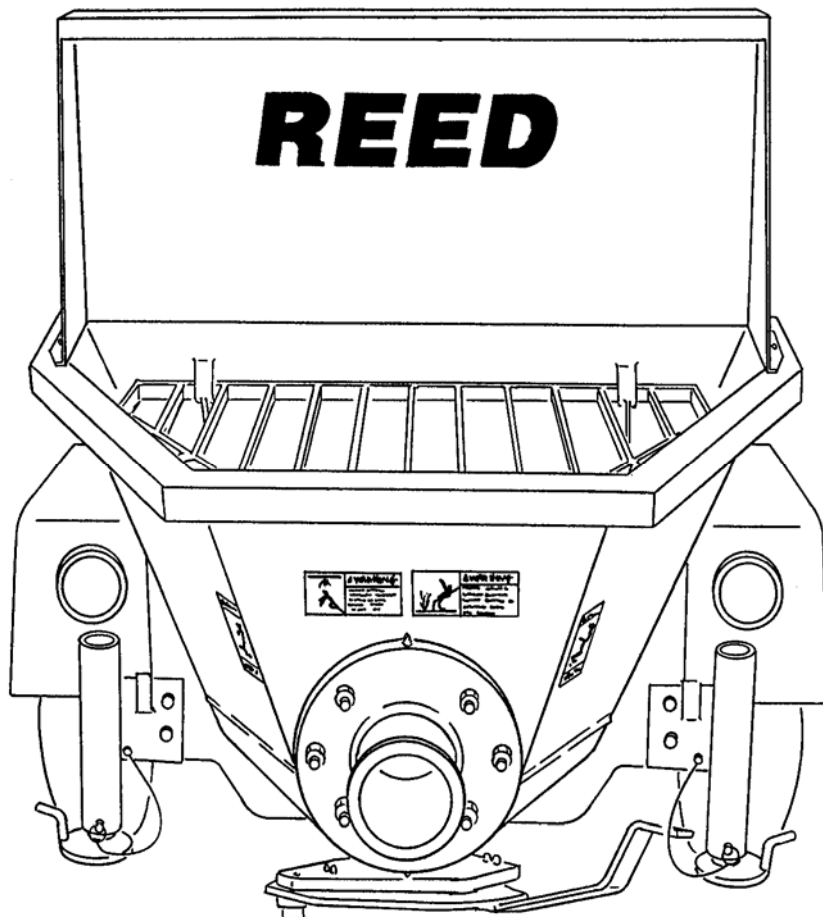
S

ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	BW10274	Group, <b>A30HP</b> Decal (See Group 10, Figure 01 for NHA)	Ref
2	BW10275	• Decal, <b>A30HP</b>	2
3	BW10100	• Decal, 7 1/4 X 7 Inch <b>ROCKMAN</b>	2
4	BW10121	• Kit, A-Series Decal	1
5	800916	• • Decal, Warning, Keep Hand Out of Water Box	1
6	BW10128	• • Decal, <b>REED</b> 4 1/4 X 12 1/2 Inch	3
7	800924	• • Decal, Warning, This Machine is Remote Controlled and	2
8	800929A	• • Decal, Warning	2
9	800931	• • Decal, <b>ACPA</b> Member	1
10	85844	• • Decal, Oil Level	1
11	75020	• • Decal, Hydraulic Oil	1
12	75017	• • Decal, Diesel Fuel Only	1
13	800926	• • Decal, Warning, Do Not Operate This Machine without	1
14	86636	• • Nameplate, <b>REED</b> , Serial No.	1
15	800921	• • Decal, Warning, Do Not Operate at Pressures Exceeding	1
16	73132	• • Decal, <b>REED</b> 4 1/2 Inch	1
17	800922	• • Decal, Warning, Before Opening a Blocked Pipeline,	1
18	800918	• • Decal, Warning, Do Not Stand on Hopper Grate	2

DASH (-) ITEM NOT ILLUSTRATED

**REED TRAILER MOUNTED CONCRETE PUMP MODEL A30HP ILLUSTRATED PARTS MANUAL GROUP 20 HOPPER INSTALLATION** CONTAINS THE FOLLOWING FIGURES:

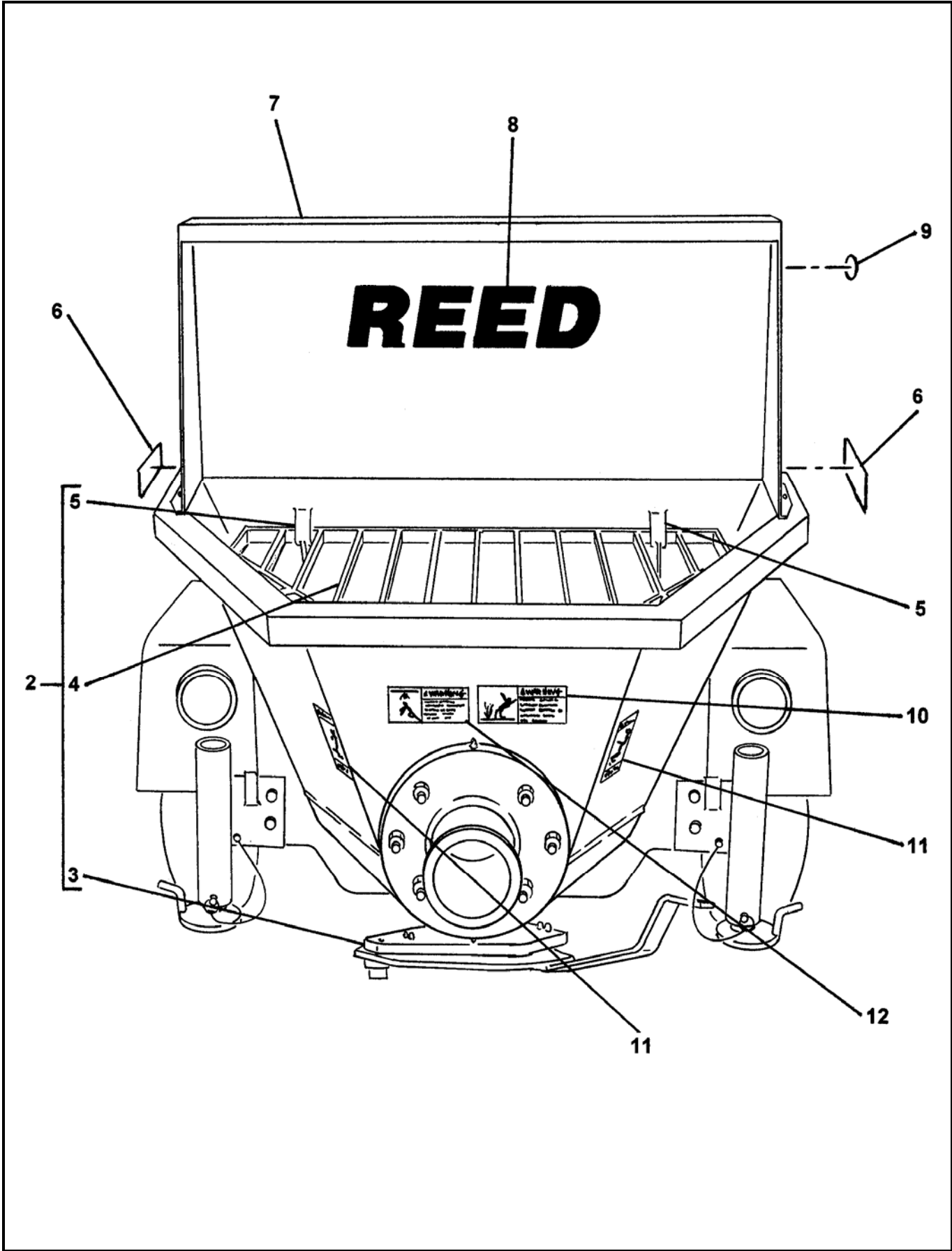
- FIGURE 00** TABLE OF CONTENTS  
**FIGURE 01** HOPPER INSTALLATION  
**FIGURE 02** HOPPER CLEAN OUT DOOR ASSEMBLY





HOPPER INSTALLATION

A30HP  
PARTS  
GROUP 20  
FIGURE 01  
PAGE 01



REVISION:



## HOPPER INSTALLATION

**A30HP****PARTS**

GROUP 20

FIGURE 01

PAGE 02

ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	20-01	Installation, Hopper (See Group 10, Figure 01 for NHA)	Ref
2	BW10015	• Assembly, Hopper	1
3	86542	• • Assembly, Clean Out Door (See Group 20, Figure 02 for DET)	1
4	BW10042	• • Grate, Hopper	1
5	72679	• • Hinge, Grate	
6	800929A	• Decal, Warning	2
7	85714	• Guard, Splash	1
8	73132	• Decal, <b>REED</b> 4 ½ Inch	1
9	800931	• Decal, <b>ACPA</b> Member	1
10	800922	• Decal, Warning, Before Opening a Blocked Pipeline,	1
11	800917	• Decal, Warning, Keep Hand Out of Hopper and Valve	2

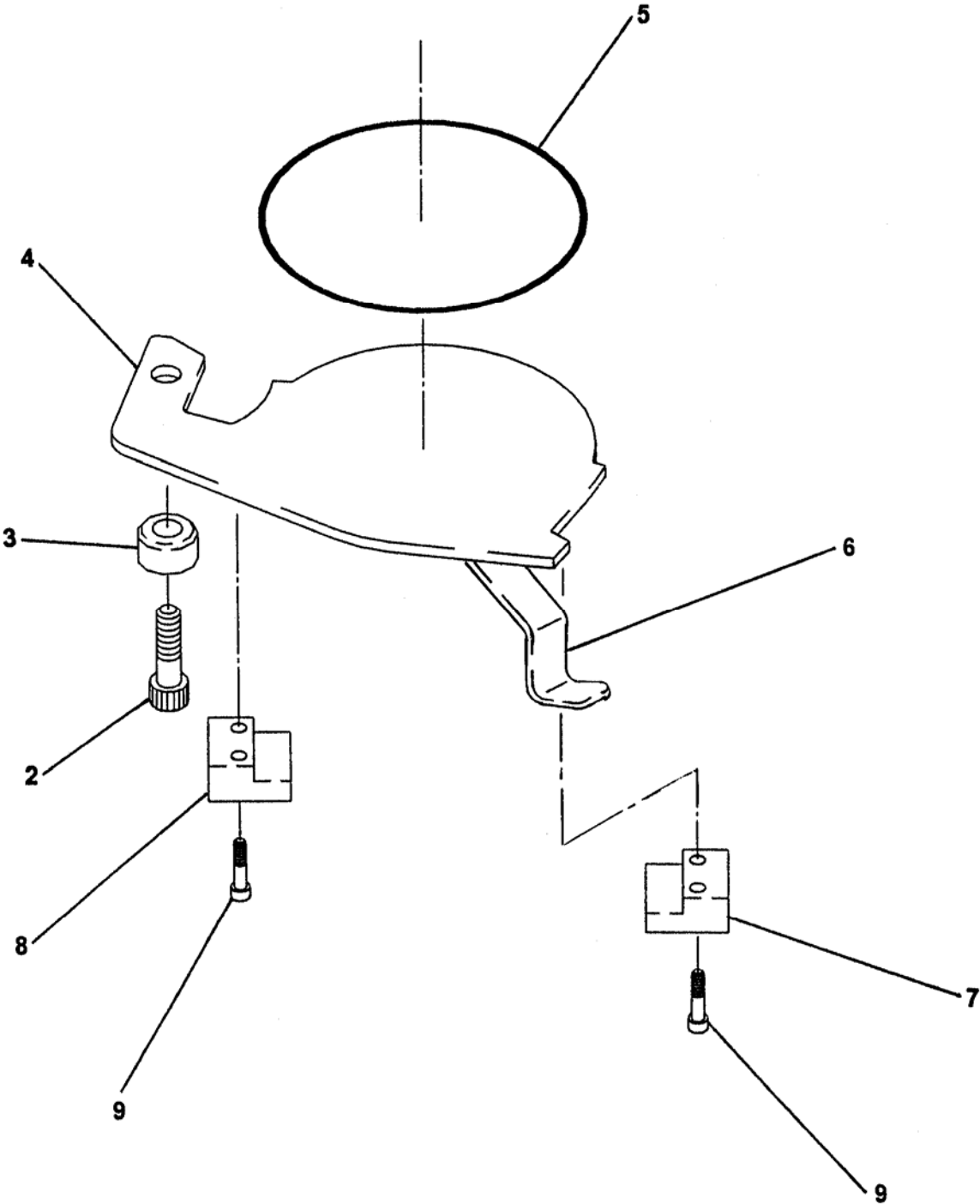
REVISION:



HOPPER CLEAN OUT  
DOOR ASSEMBLY

A30HP  
PARTS

GROUP 20  
FIGURE 02  
PAGE 01



**HOPPER CLEAN OUT  
DOOR ASSEMBLY**

ITEM NO.	REED 'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	86542	Assembly, Rounded Clean Out Door (See Group 20, Figure 01 for NHA )	Ref
2		• Bolt, Shoulder	1
3	85367	• Boss, Clean Out Door	1
4	86988	• Door, Clean Out	1
5	W-102908A	• Cord, Hopper Door O-Ring 2.21 FT	1
6	86541	• Handle, Clean Out Door	1
7	86560	• Block, RH Clean Out Door	1
8	86559	• Block, LH Clean Out Door	1
9		• Screw, Socket Head Cap	4
-10	85312	• Plate, Seal	1
-11	85371	• Neck, Clean Out Door	1

DASH (-) ITEM NOT ILLUSTRATED





**TRAILER MOUNTED PUMP MODEL A30HP  
ILLUSTRATED PARTS MANUAL**

**A30HP**

**PARTS**

**GROUP 20**

**FIGURE 03**

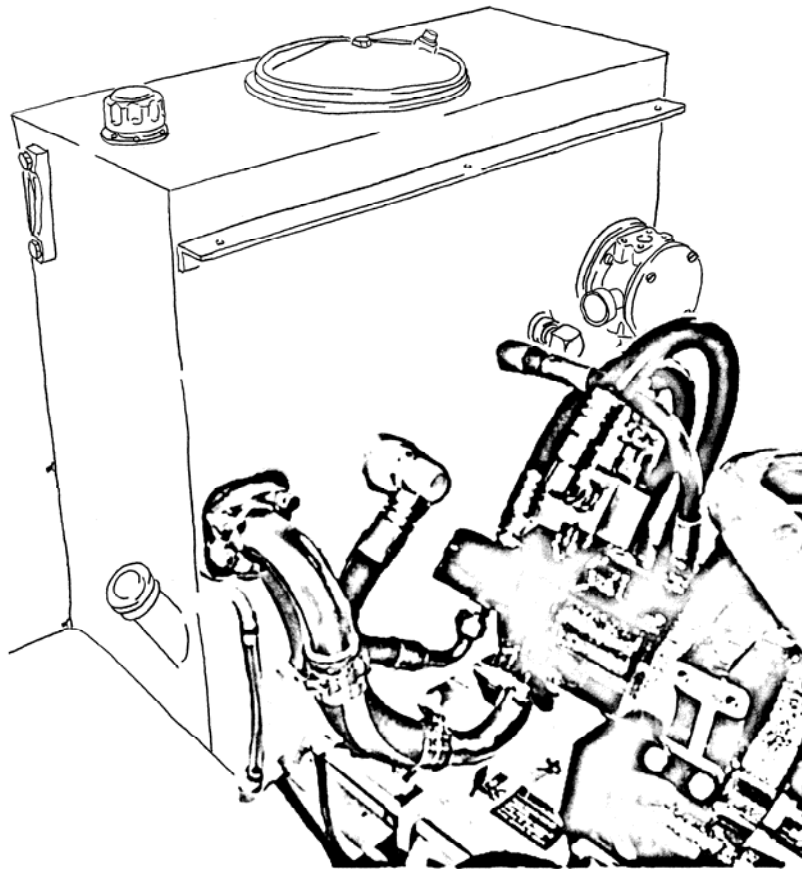
**PAGE 01**

THIS PAGE INTENTIONALLY LEFT BLANK.

**REED** TRAILER MOUNTED CONCRETE PUMP MODEL **A30HP** ILLUSTRATED PARTS MANUAL GROUP 30 HYDRAULIC TANK INSTALLATION CONTAINS THE FOLLOWING FIGURES:

**FIGURE 00** TABLE OF CONTENTS

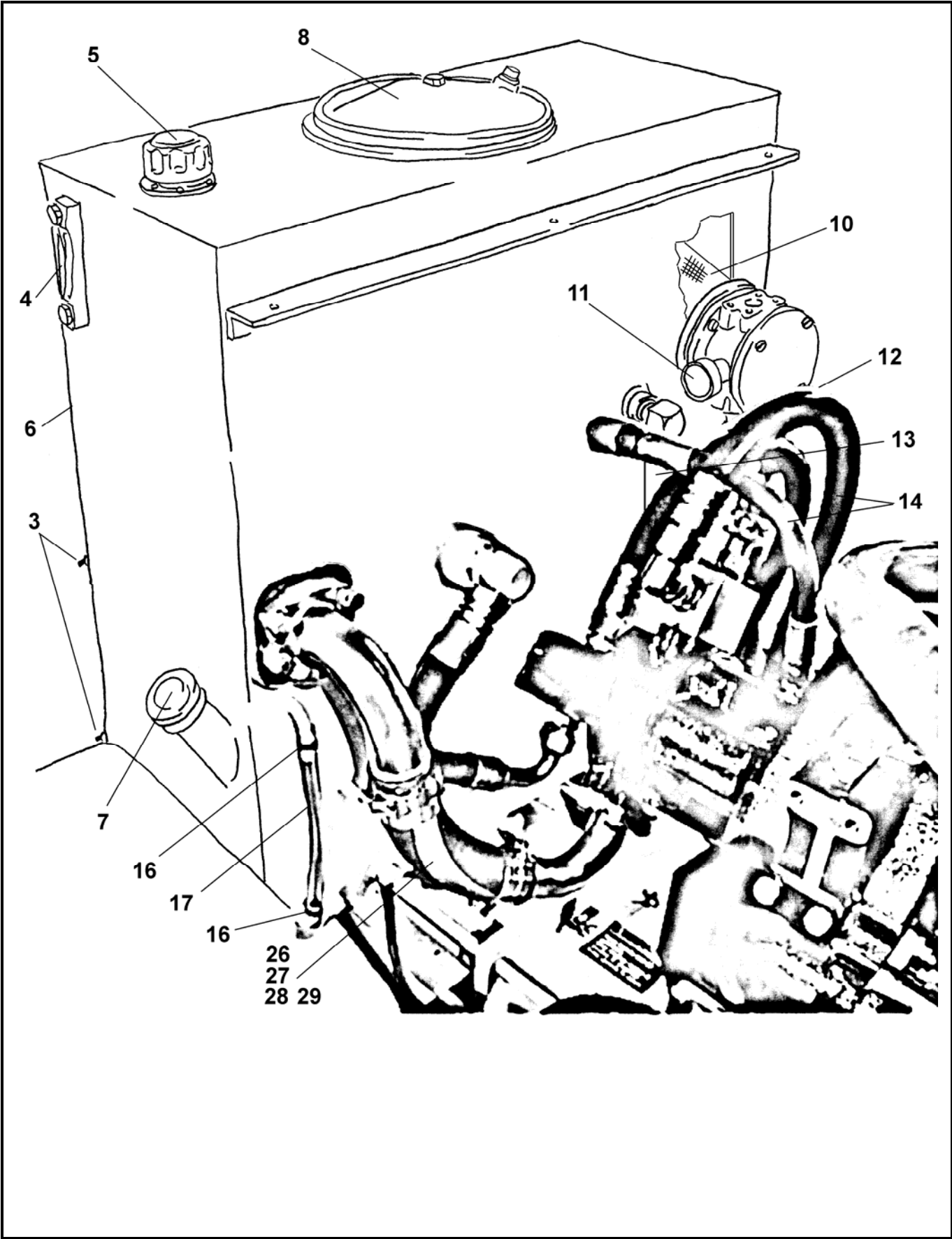
**FIGURE 01** TANK INSTALLATION





# TANK INSTALLATION

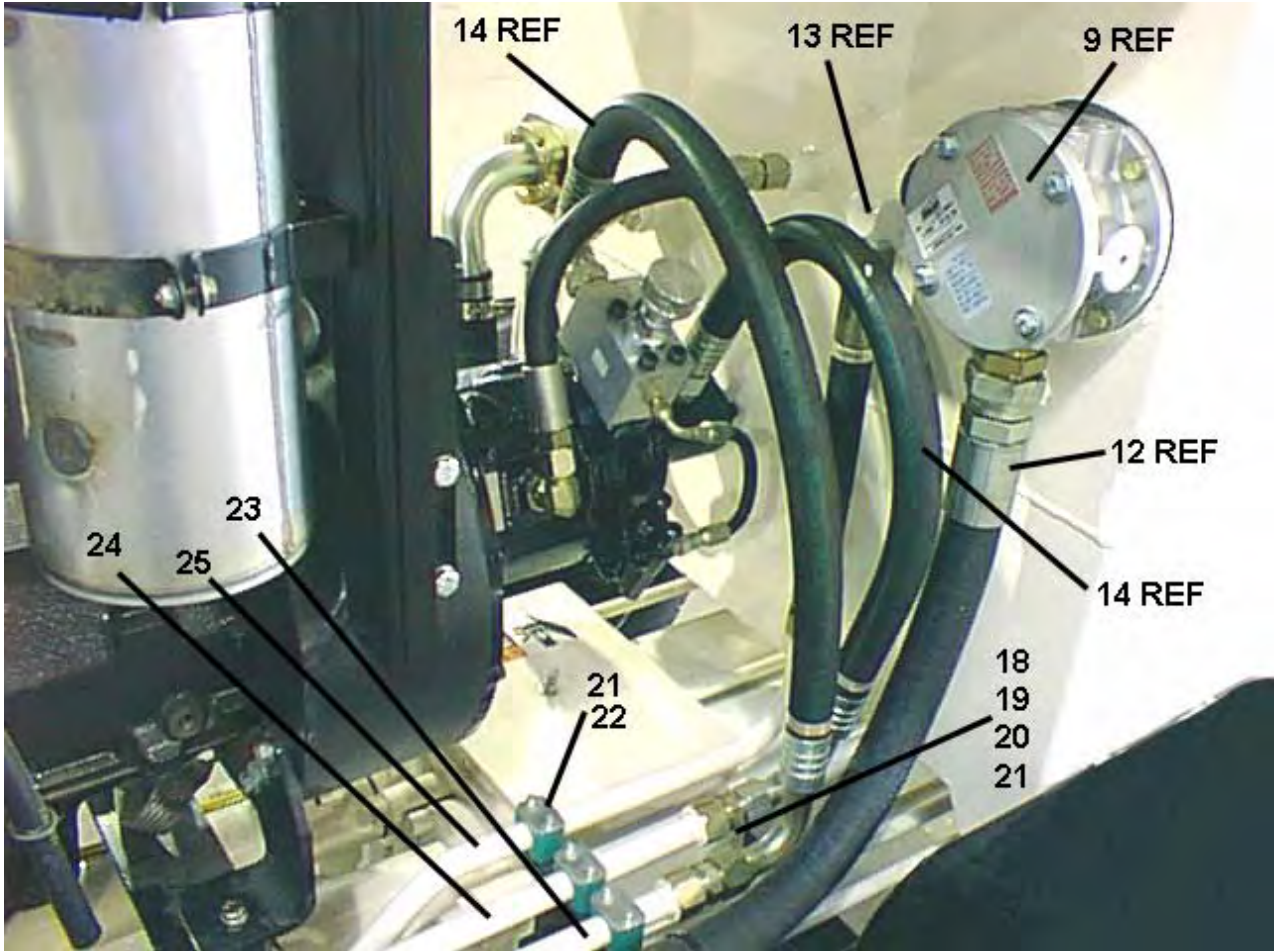
A30HP  
PARTS  
GROUP 30  
FIGURE 01  
PAGE 01



REVISION:

ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	BW43000	Installation, Tank (See Group 10, Figure 01 for NHA)	Ref
-2	BW10117	• Assembly, A-Series Hydraulic / Fuel Tank	1
3	801025	• • Cock, ¼ Drain	2
4	74509	• • Gauge, Sight and Temperature	1
5	74508	• • Breather, Filler with Cap	1
6	BW10014	• • Weldment, A-Series Hydraulic / Fuel Tank	1
7	BW10256	• • • Cap, Filler	1
8	BW10171	• • • Kit, 12 Inch End Cover	1
9	BW10027	RETURN FILTER, HOUSING/ELEMENT/GAUGE	1
10	BW10106	• • • Element, Filter	1
11		• • • Gauge, Filter	1
12	BW10162	• Assembly, Hydraulic Hose	1
13	BW10046	• Assembly, Return Line Hydraulic Hose	1
14	BW10047	• Assembly, Main Pump Hydraulic Hose	2
15	BW10170	• Assembly, Hydraulic Hose	1
16	802289	• Clamp, Worm	2
17	801978	• Tubing, Clear PVC	1
18	BW10049	• Assembly, Swing Cylinder Hydraulic Hose	2
19	BW10154	• Assembly, Swing Cylinder Hydraulic Tube	2
20	801902-006	• Clamp, Tube	4
21	801902-001	• Nut, Tube Clamp Tee	10
22	801902-007	• Clamp, Tube	6
23	BW10150	• Assembly, Main Pump Pressure Hydraulic Tube	1
24	BW10151	• Assembly, Main Pump Accumulator Hydraulic Tube	1
25	BW10153	• Assembly, Return Line Hydraulic Tube	1
26	86264-005	• Split Flange	1
27	86264-006	• Split Flange	1
28	85661-001	• Hose-No Ends	1
29	87145	• Clamp T-Bolt	4

DASH (-) ITEM NOT ILLUSTRATED



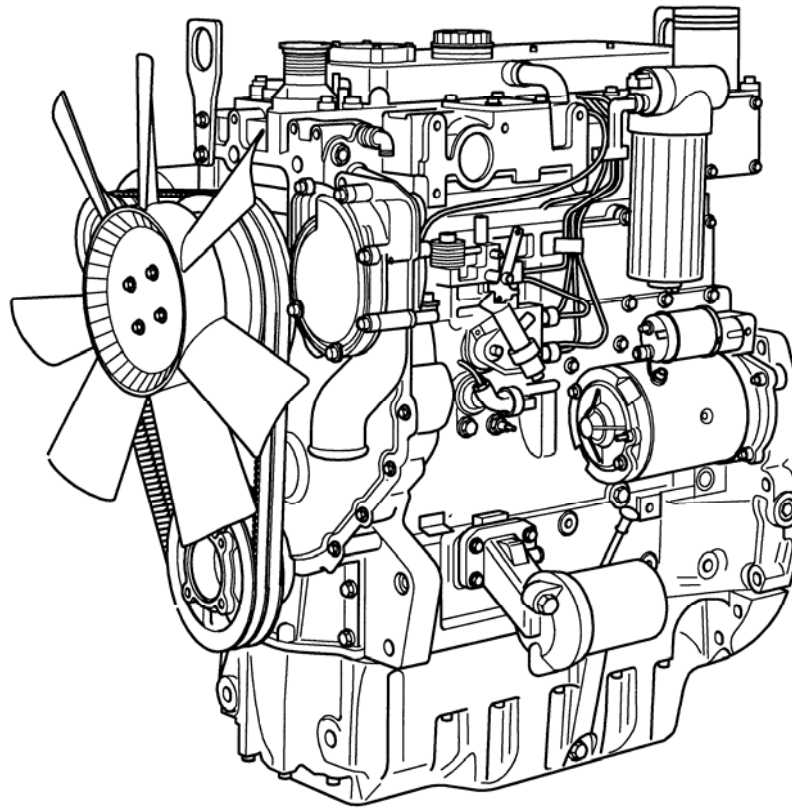
ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	BW43000	Installation, Tank (See Group 10, Figure 01 for NHA)	Ref
-2	BW10117	• Assembly, A-Series Hydraulic / Fuel Tank	1
3	801025	• • Cock, ¼ Drain	2
4	74509	• • Gauge, Sight and Temperature	1
5	74508	• • Breather, Filler with Cap	1
6	BW10014	• • Weldment, A-Series Hydraulic / Fuel Tank	1
7	BW10138	• • • Cap, Filler with Neck	1
8	BW10171	• • • Kit, 12 Inch End Cover	1
9	BW10027	• • Filter, Return	1
10	BW10106	• • • Element, Filter	1
11		• • • Gauge, Filter	1
12	BW10162	• Assembly, Hydraulic Hose	1
13	BW10046	• Assembly, Return Line Hydraulic Hose	1
14	BW10047	• Assembly, Main Pump Hydraulic Hose	2
15	BW10170	• Assembly, Hydraulic Hose	1
16	802289	• Clamp, Worm	2
17	801978	• Tubing, Clear PVC	1
18	BW10049	• Assembly, Swing Cylinder Hydraulic Hose	2
19	BW10154	• Assembly, Swing Cylinder Hydraulic Tube	2
20	801902-006	• Clamp, Tube	4
21	801902-001	• Nut, Tube Clamp Tee	10
22	801902-007	• Clamp, Tube	6
23	BW10150	• Assembly, Main Pump Pressure Hydraulic Tube	1
24	BW10151	• Assembly, Main Pump Accumulator Hydraulic Tube	1
25	BW10153	• Assembly, Return Line Hydraulic Tube	1
26	86264-005	• Split Flange	1
27	86264-006	• Split Flange	1
28	85661-001	• Hose-No Ends	1
29	87145	• Clamp T-Bolt	4



**TRAILER MOUNTED PUMP MODEL *A30HP*  
ILLUSTRATED PARTS MANUAL**

***A30HP***  
**PARTS**  
GROUP 30  
FIGURE 02  
PAGE 01

THIS PAGE INTENTIONALLY LEFT BLANK.



**REED** TRAILER MOUNTED CONCRETE PUMP MODEL **A30HP** ILLUSTRATED PARTS MANUAL GROUP 40 POWER TRAIN INSTALLATION CONTAINS THE FOLLOWING FIGURES:

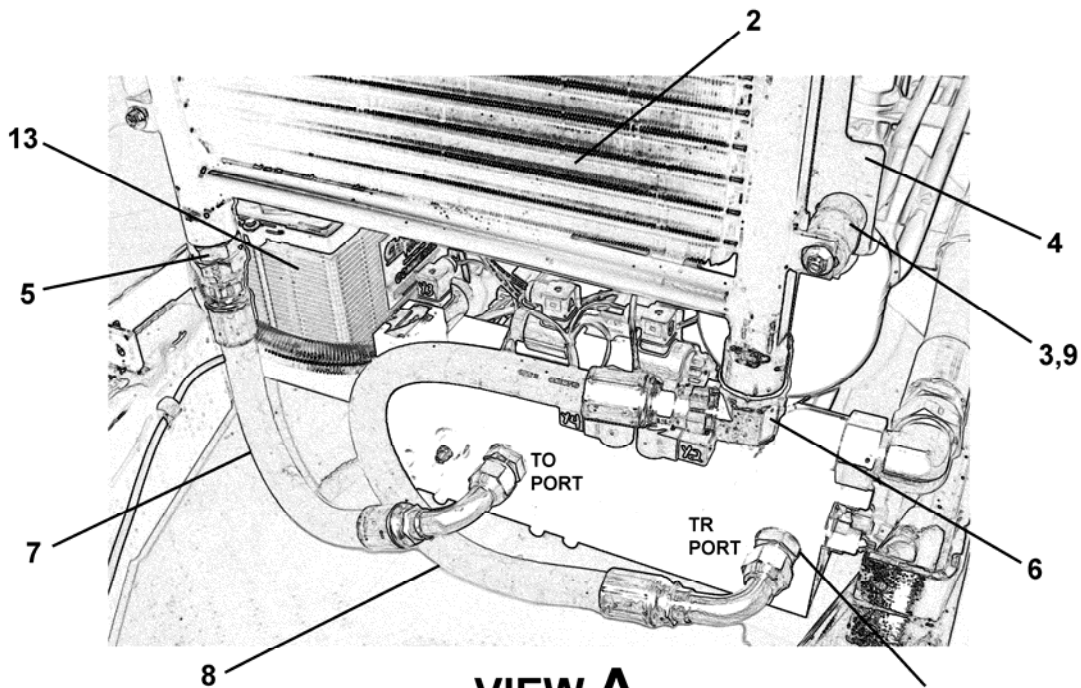
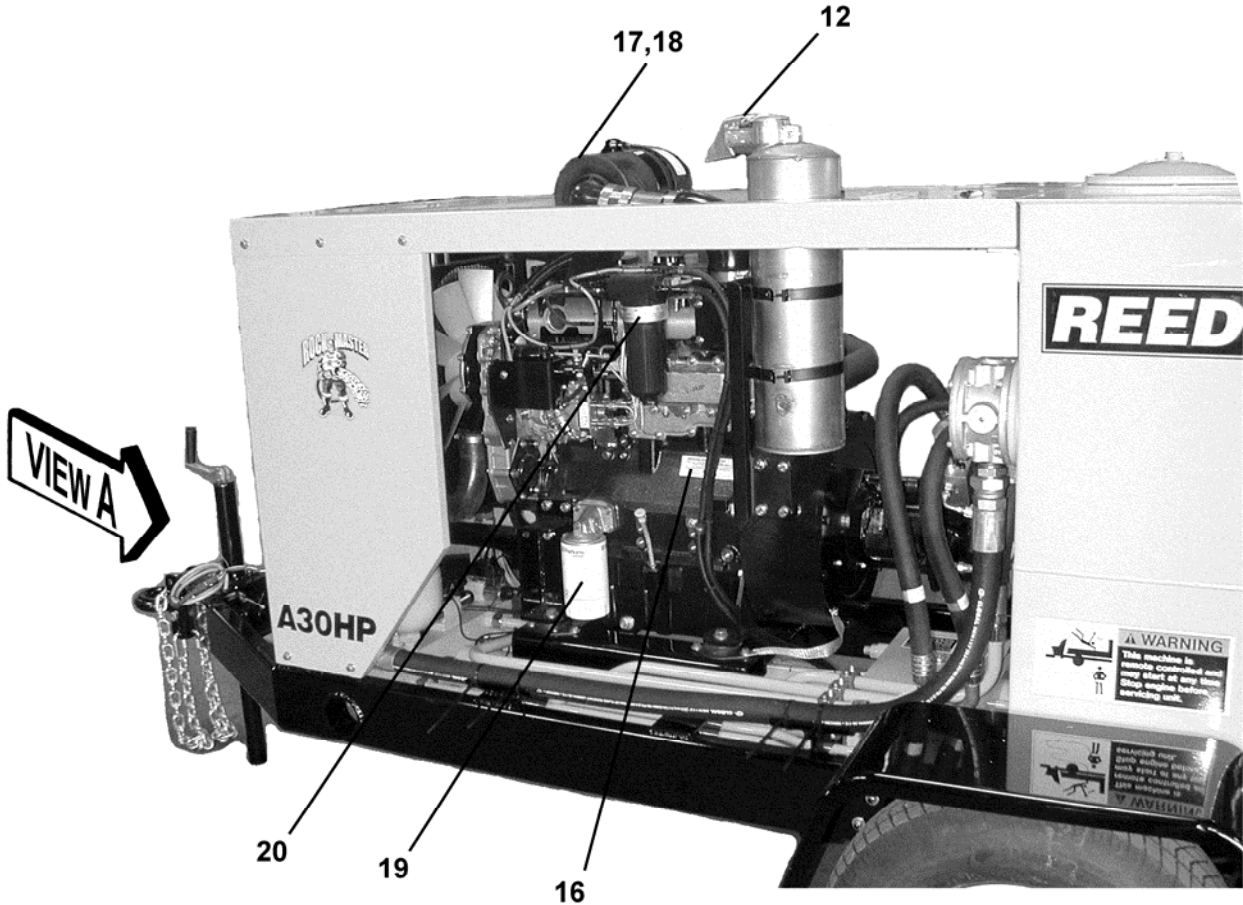
- |                  |                           |
|------------------|---------------------------|
| <b>FIGURE 00</b> | TABLE OF CONTENTS         |
| <b>FIGURE 01</b> | POWER TRAIN INSTALLATION  |
| <b>FIGURE 02</b> | BATTERY MOUNTING ASSEMBLY |
| <b>FIGURE 03</b> | HYDRAULIC PUMPS ASSEMBLY  |





POWER TRAIN INSTALLATION

A30HP  
PARTS  
GROUP 40  
FIGURE 01  
PAGE 01



**VIEW A**

(WITH COVER REMOVED)

86900-28 (2) REF

ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
1	BW31030	Installation, Power Train (See Group 10, Figure 01 for NHA)	Ref
2	BW10277	Cooler, Oil	1
3	BW10289	Spacer, Oil Cooler Mount	4
4	BW10278	Bracket, Oil Cooler	2
5	86900-031	Adaptor, MB-MJ-20-20	1
6	86728-026	Elbow, MB-MJ90-20-16	1
7	BW10280	Hose, 16GMV+ -20FJX-16FJX90S-24"	1
8	BW10281	Hose, 16GMV+ -20FJX-16FJX90S-36"	1
9	80043	Flatwasher-3/8 USS	8
-10	BW10179	Safety Plate, Exhaust Pipe	1
-11	78213	Clamp	1
12	70849	Cap, Rain	1
13	40-02	Assembly, Battery Mounting (See Group 40, Figure 02 for DET)	1
14	10577	Clamp, Hose	2
15	77347A	Hose, 13ft FT Fuel	1
16	BW10039-1	Assembly, Engine (See Vendor Section, Figure 01 for REF)	1
17	BW10330	Element, Air Filter, Primary	1
18	BW10331	Element, Air Filter, Safety	1
19	BW10332	Filter, Oil	1
20	BW10333	Filter, Fuel	1
21	40-03	Assembly, Hydraulic Gear Pump (See Group 40, Figure 03 for REF) (Also See Vendor Section, Figure 02 for REF)	1
22	40-03	Assembly, Hydraulic Gear Pump (See Group 40 Figure 03 for REF) (Also See Vendor Section, Figure 03 for REF)	1
-23	73269	Strap, Ground	1
-24	BW10322	Assembly, Engine Wiring Harness (See Schematic Section, Page 05 for REF)	1

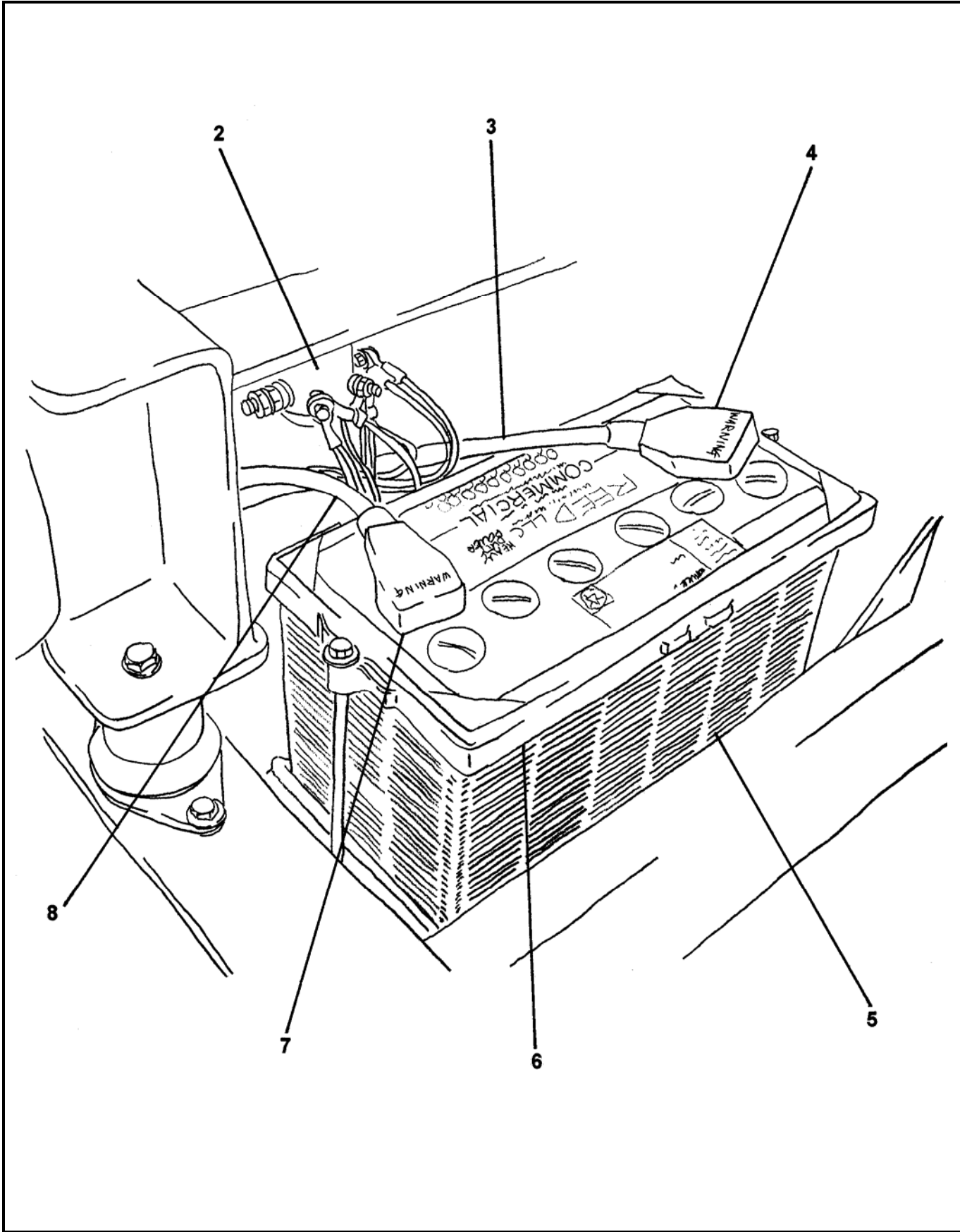
DASH (-) ITEM NOT ILLUSTRATED

**-25 BW10276 LINEAR ACTUATOR**



BATTERY MOUNTING ASSEMBLY

A30HP  
PARTS  
GROUP 40  
FIGURE 02  
PAGE 01



REVISION:



## BATTERY MOUNTING ASSEMBLY

**A30HP**

**PARTS**

GROUP 40

FIGURE 02

PAGE 02

ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	40-02	Assembly, Battery Mounting (See Group 40, Figure 01 for NHA)	Ref
2	85348	• Connector, SPNO 12 VDC	1
3	72014	• Cable, 36 Inch Long Battery Top (Red)	1
4	77719	• Cover, Positive Battery (Red)	1
5	77075	• Battery, 12 VDC	1
6	72945	• Holder, Battery Down	1
7	77720	• Cover, Negative Battery (Black)	1
8	75116	• Cable, Negative Battery (Black)	1

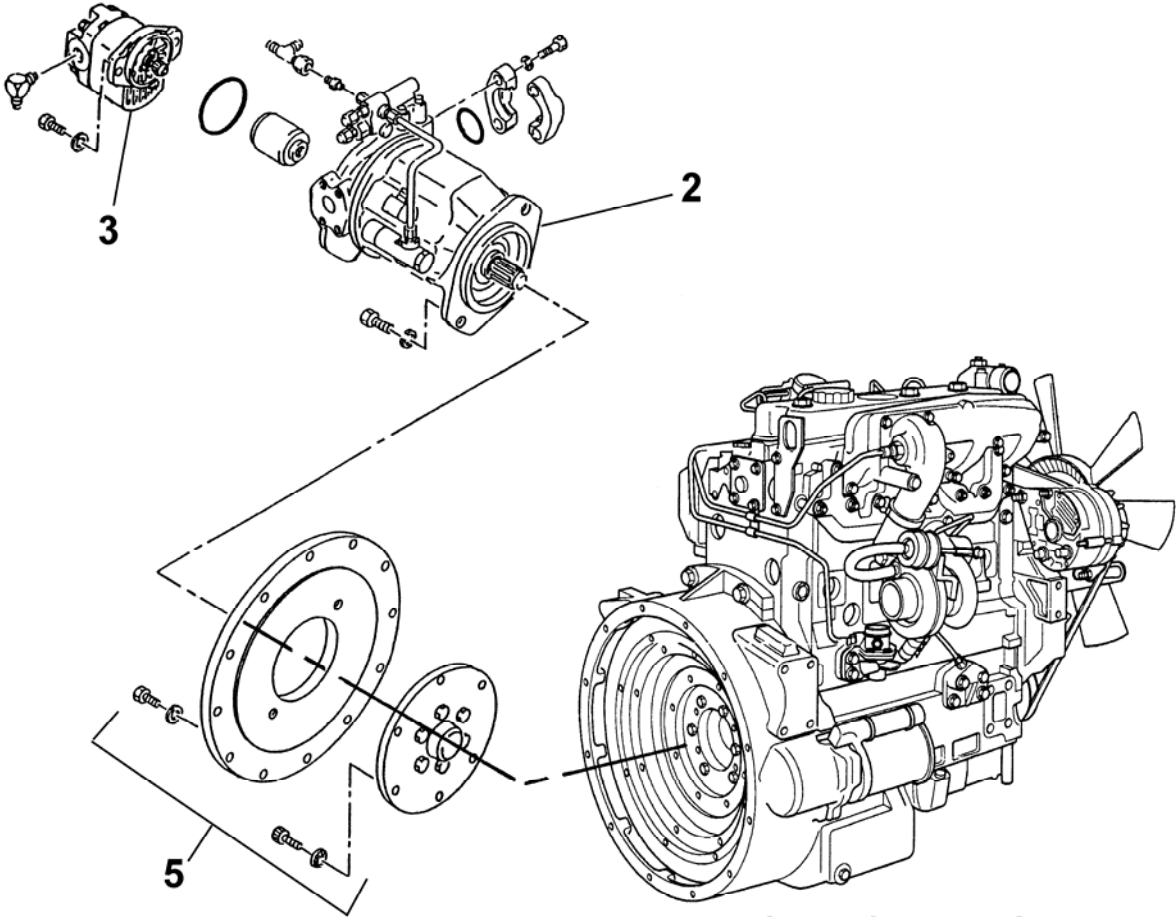
DASH (-) ITEM NOT ILLUSTRATED

REVISION:



HYDRAULIC PUMPS ASSEMBLY

A30HP  
PARTS  
GROUP 40  
FIGURE 03  
PAGE 01



PERKINS DIESEL ENGINE  
BW10039-1(REF)



## HYDRAULIC PUMPS ASSEMBLY

**A30HP****PARTS**

GROUP 40

FIGURE 03

PAGE 02

ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	40-03	Assembly, Hydraulic Pumps (See Group 40, Figure 01 for NHA)	Ref
2	79560	• Pump, Main	1
3	72978	• Pump, Single Auxiliary	1
-4	79570	• Valve, Flow Control-Main Pump	1
5	77876	• Pump Drive	1
6	-	•	-
7	-	•	-
8	-	•	-

DASH (-) ITEM NOT ILLUSTRATED

REVISION:



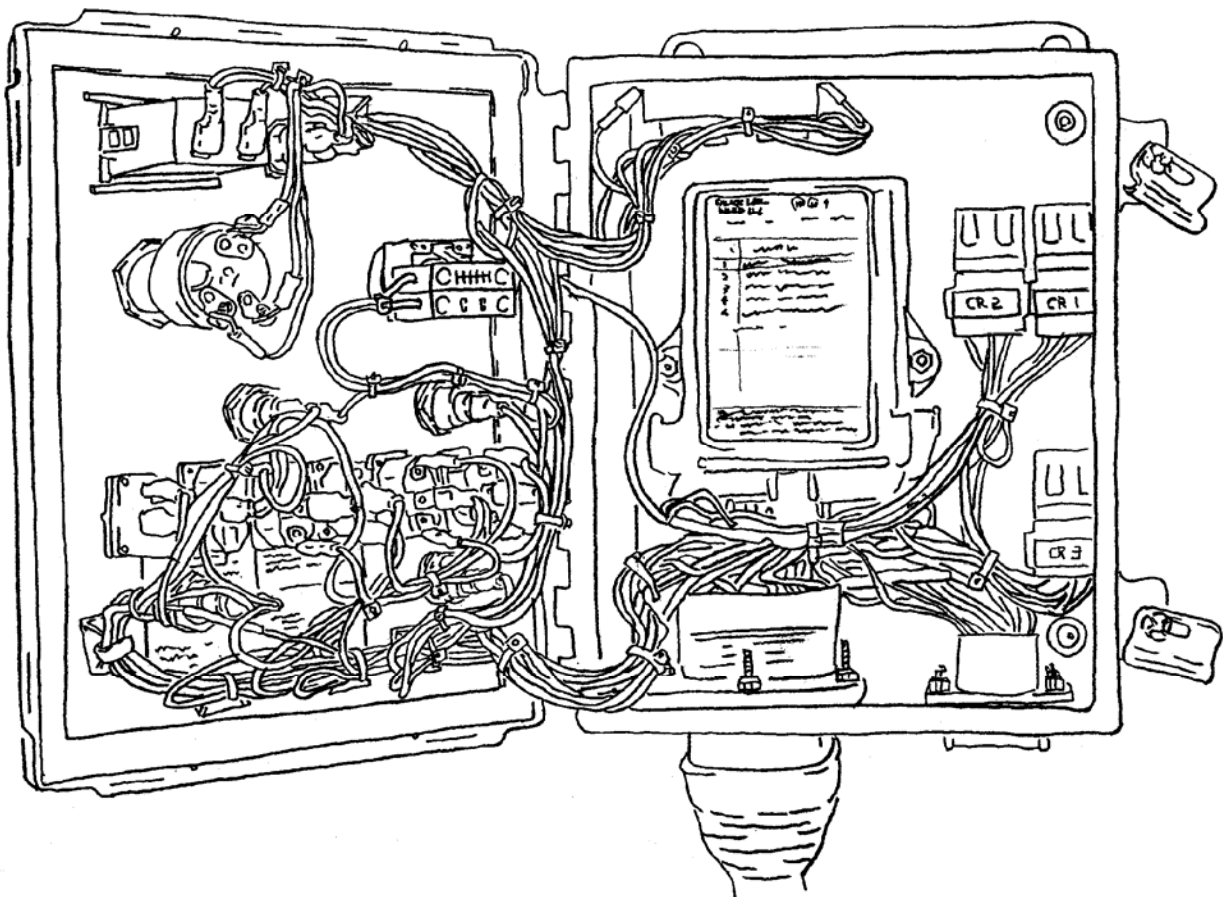
**TRAILER MOUNTED PUMP - A30HP  
ILLUSTRATED PARTS MANUAL**

**A30HP**  
**PARTS**  
GROUP 40  
FIGURE 04  
PAGE 01

THIS PAGE INTENTIONALLY LEFT BLANK.

**REED** TRAILER MOUNTED CONCRETE PUMP MODEL A30HP ILLUSTRATED PARTS MANUAL GROUP 50 CONTROLS INSTALLATION CONTAINS THE FOLLOWING FIGURES:

- FIGURE 00** TABLE OF CONTENTS
- FIGURE 01** CONTROLS INSTALLATION
- FIGURE 02** CONTROL BOX ASSEMBLY
- FIGURE 03** CABLE REMOTE CONTROL ASSEMBLY
- FIGURE 04** RADIO REMOTE CONTROL ASSEMBLY

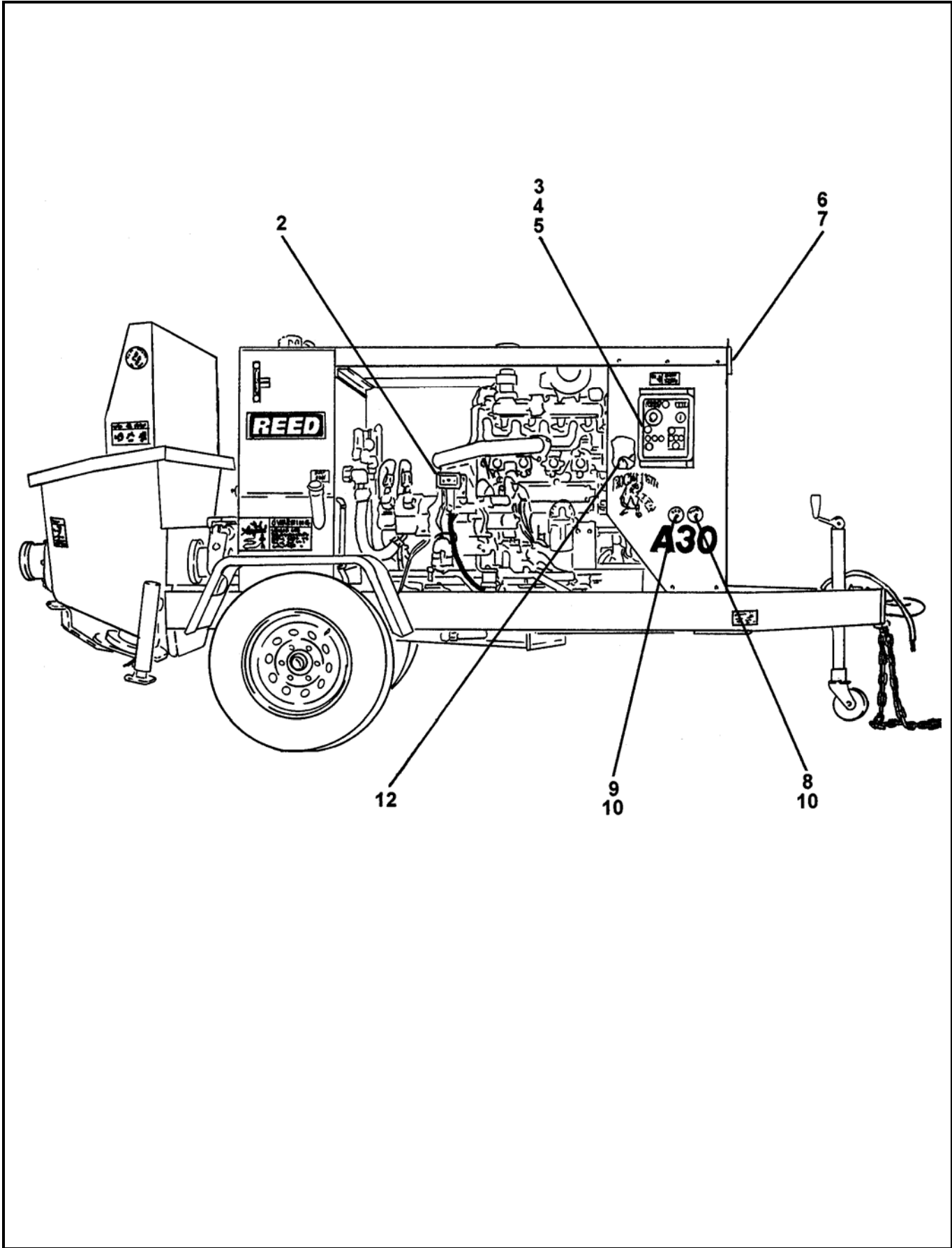






CONTROL INSTALLATION

A30HP  
PARTS  
GROUP 50  
FIGURE 01  
PAGE 01



REVISION:



## CONTROL INSTALLATION

**A30HP**  
**PARTS**  
GROUP 50  
FIGURE 01  
PAGE 02

ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	50-01	Installation, Control (See Group 10, Figure 01 for NHA)	Ref
2	BW10013	• Assembly, Cable Remote Control (See Group 50, Figure 03 for DET)	1
3	BW10321	• Assembly, Control Box (See Group 50, Figure 03 for DET)	1
4	73748	• Bumper, Control Box	4
5	72862	• Gauge, Proximity Sensor Setting	1
6	BW10132	• Radio Remote Control Kit-Kartech (Optional Item) (See Group 50, Figure 04 for DET)	1
7	BW10188	• Radio Remote Control Kit-Remtron (Optional Item) (See Group 50, Figure 04 for DET)	1
8	74562	• Gauge, 6,000 PSI Hydraulic	1
9	70366	• Gauge, 3,000 PSI Hydraulic	1
10	78594	• Adapter, Minicheck Gauge	2
-11	BW10318	• Hose, 48 Inch-90 Degree Minicheck	2
12	800347	• Horn, 12 V	1
DASH (-) ITEM NOT ILLUSTRATED			

REVISION:



## CABLE REMOTE CONTROL ASSEMBLY

**A30HP**

**PARTS**

GROUP 50

FIGURE 02

PAGE 01



REVISION:



## CABLE REMOTE CONTROL ASSEMBLY

**A30HP**

**PARTS**

GROUP 50

FIGURE 02

PAGE 02

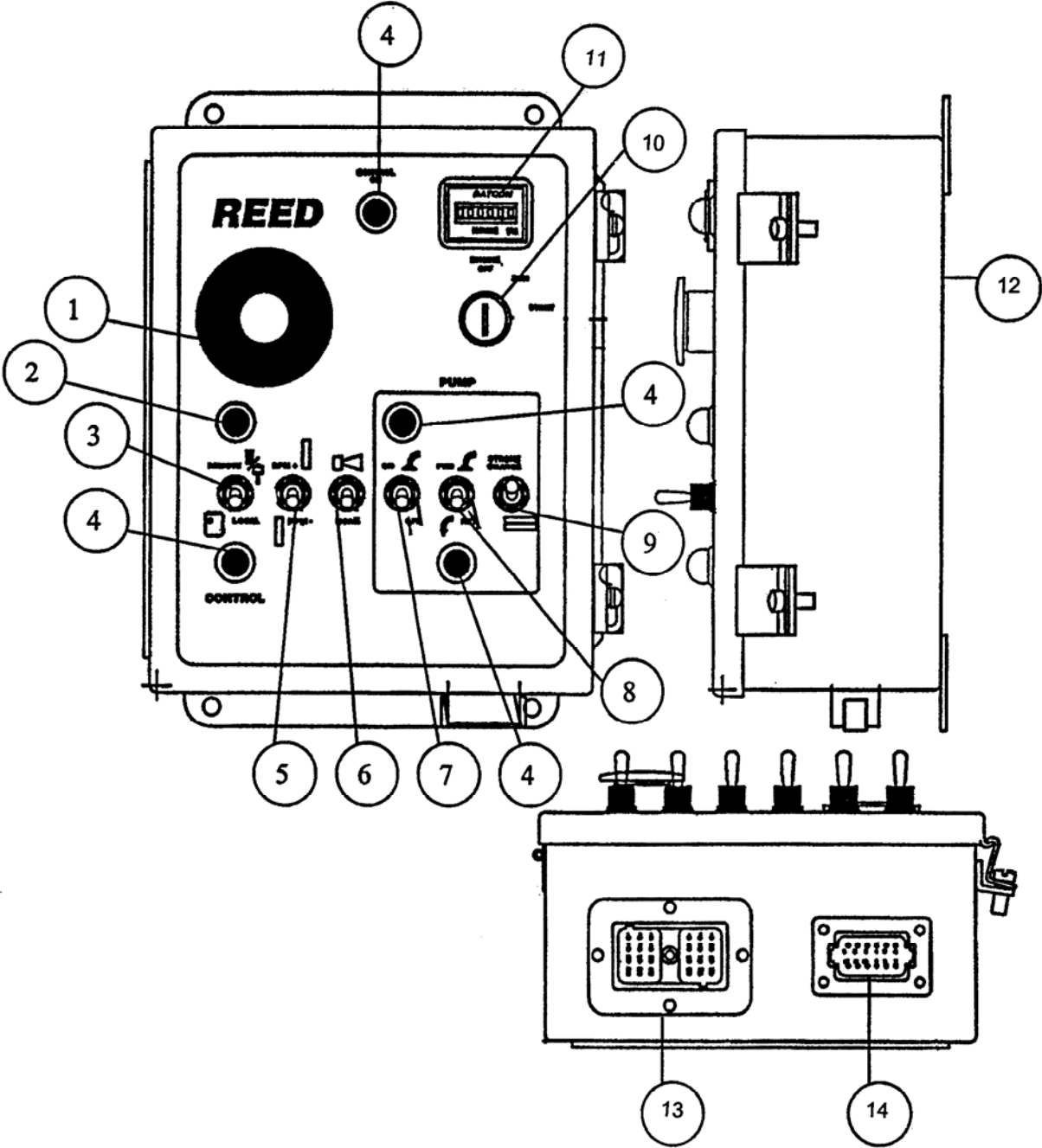
THIS GROUP 50, FIGURE 02, PARTS NUMBER BW10013,  
**CABLE REMOTE CONTROL ASSEMBLY,**  
DETAIL PARTS LIST IS NOT AVAILABLE THIS REVISION.

REVISION:



CONTROL BOX ASSEMBLY

A30HP  
PARTS  
GROUP 50  
FIGURE 03  
PAGE 01

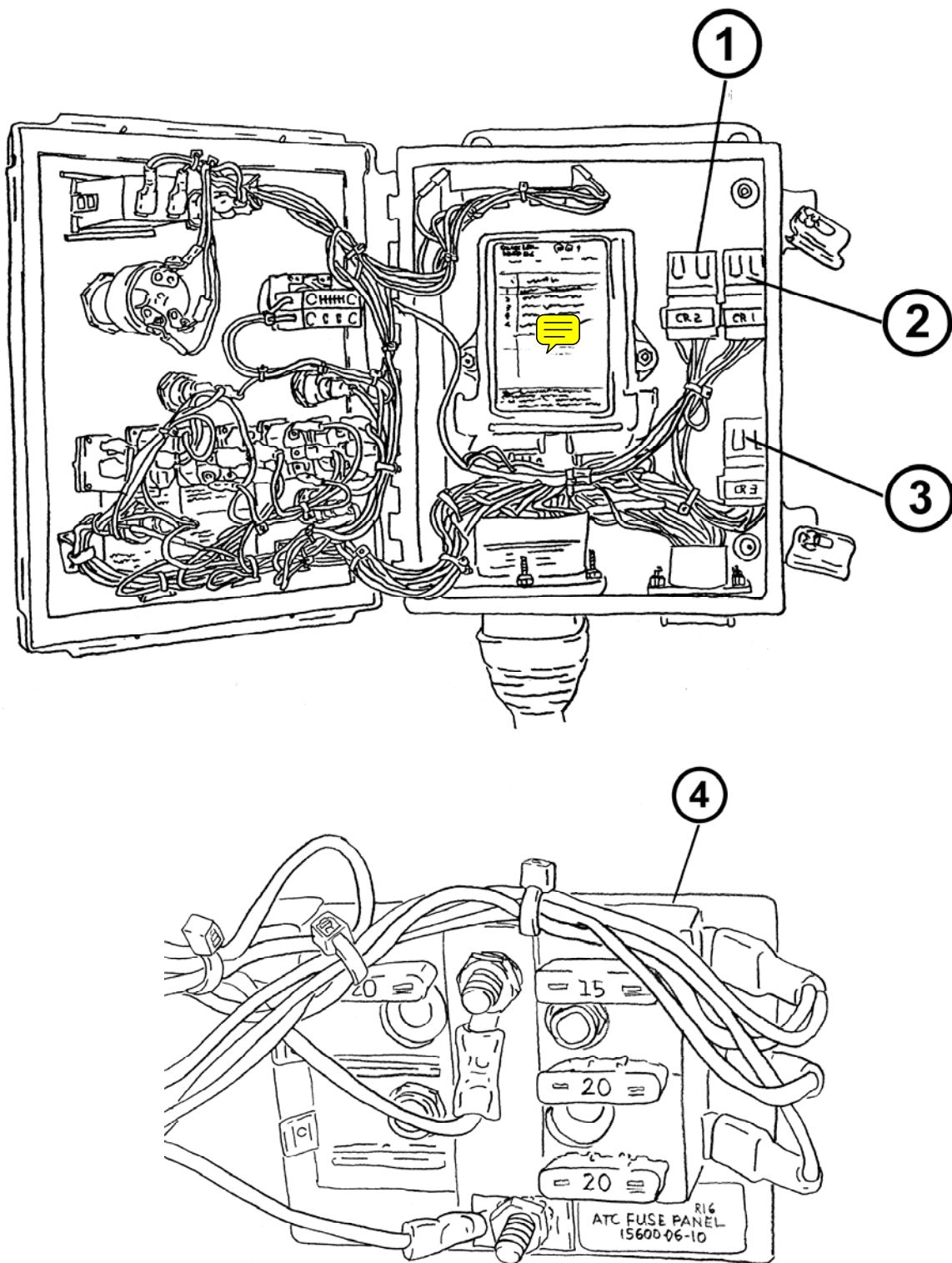


ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
1	BW10208	• E-Stop Light (Power Supply)	1
2	BW10214	• Lens, Amber	1
3	BW10223	• SPST Toggle Switch On-On	1
4	BW10215	• Lens, Green	1
5	BW10205	• SPDT Momentary Switch	1
6	BW10206	• SPDT Momentary Switch	1
7	BW10207	• SPST Toggle Switch	1
8	BW10207	• SPST Toggle Switch	1
9	BW10206	• SPDT Momentary Switch	1
10	BW10204	• SW, Key Switch	1
11	BW10212	• Hour Meter-Mini	1
12	BW10203	• 10x8x4 Steel CH Enclosure	1
13	BW10217	• Connector, DRC12-24PA	1
14	BW10218	• Connector, DT04-12PA-L012, 12 Pin EMT	1
-15	BW10209	• Mushroom Head Maintained Button (Ref-BW10208 Red Light Housing)	1
-16	BW10211	• LGT, Mini Bayonet Red (Ref-BW10208 and BW10209)	1
-17	BW10213	• Light Socket (Ref-BW10214 and BW10215)	5
-18	BW10216	• Light Bayonet 14V (Ref-BW10213,BW10214 and BW10215)	5
-19	BW10219	• Connector 12 Pin, Gasket (Ref-BW10218)	1
-20	BW10220	• Connector 24in, Gasket (Ref-BW10217)	1

ITEM (-) NOT ILLUSTRATED

## CONTROL BOX ASSEMBLY

A30HP  
PARTS  
GROUP 50  
FIGURE 03  
PAGE 03





## CONTROL BOX ASSEMBLY

**A30HP**

**PARTS**

GROUP 50

FIGURE 03

PAGE 04

ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
1	BW10222	• Relay, Diode Suppress (Note: Same Part# For Items 1,2, &3)	1
2	BW10222	• Relay, Diode Suppress (Note: Same Part# For Items 1,2, &3)	1
3	BW10222	• Relay, Diode Suppress (Note: Same Part# For Items 1,2, &3)	1
4	BW10227	• Fuse, Block GNG 6F	1
5	BW10255	LOGIC CONTROLLER BOX (PLC) - KAR TECH	1

REVISION:



## OPTIONAL RADIO REMOTE CONTROL ASSEMBLY



**BW10132 KAR-TECH  
RADIO REMOTE KIT**

**BW10247 DECAL**



**7**

**8**



**9**

**10**

**11**

**12**

**13**

**BW10188 REMTRON  
RADIO REMOTE KIT**

**OPTIONAL RADIO  
REMOTE CONTROL ASSEMBLY**

ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
1	BW10196	• Antenna Support	1
2	BW10194	• Rod, Antenna	1
3	BW10201	• Antenna Cable-27"	1
4	BW10012	• Radio Remote Receiver-Kartech	1
5	BW10200	• Plate Weldment, Rod Assembly Support	1
6	BW10202	• Hair Pin	1
7	BW10011	• Radio Remote Transmitter-Kartech	1
8	BW10192	• Holster for Kartech Radio Transmitter	1
9	BW10190	• Radio Remote Receiver-Remtron	1
10	BW10191	• Holster Shoulder Strap for Remtron Transmitter	1
11	BW10189	• Transmitter for Remtron Radio	1
12	NA	• Antenna-See BW10188	1
13	NA	• Coax Cable-See BW10188	1
-14	800418	• Lanyard for BW10202	1
-15	BW10195	• Tab, Antenna Support	1
-16	BW10197	• Tube, Rod Assembly Support	1
-17	BW10198	• Tube, Rod Assembly Support	1
-18	BW10199	• Plate, Rod Assembly Support	1
-19	BW10200	• Plate Weldment, Rod Assembly Support	1
-20	BW10176	• Bracket, Mounting-Remtron Radio	1
-21	-	•	-

DASH (-) ITEM NOT ILLUSTRATED



**TRAILER MOUNTED PUMP MODEL A30HP  
ILLUSTRATED PARTS MANUAL**

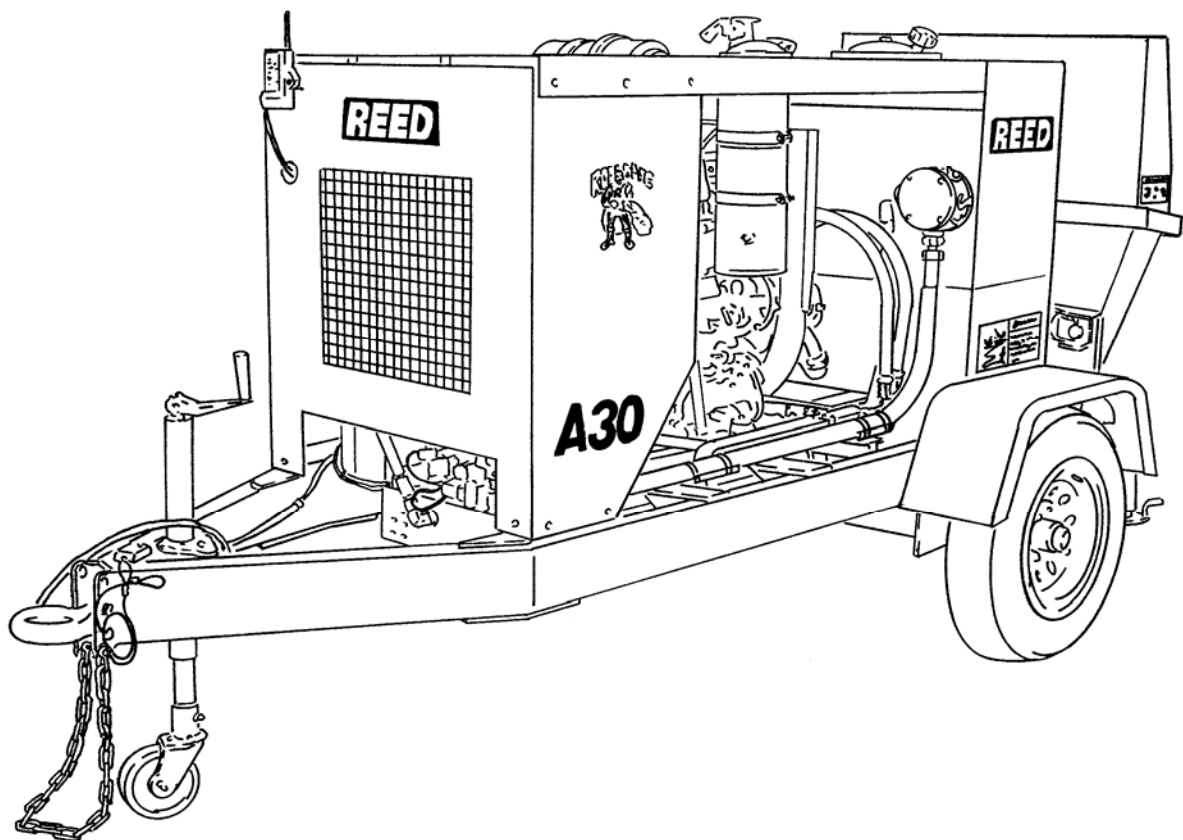
**A30HP  
PARTS**

**GROUP 50  
FIGURE 05  
PAGE 01**

THIS PAGE INTENTIONALLY LEFT BLANK.

**REED** TRAILER MOUNTED CONCRETE PUMP MODEL **A30HP** ILLUSTRATED PARTS MANUAL GROUP 70 FRAME INSTALLATION CONTAINS THE FOLLOWING FIGURES:

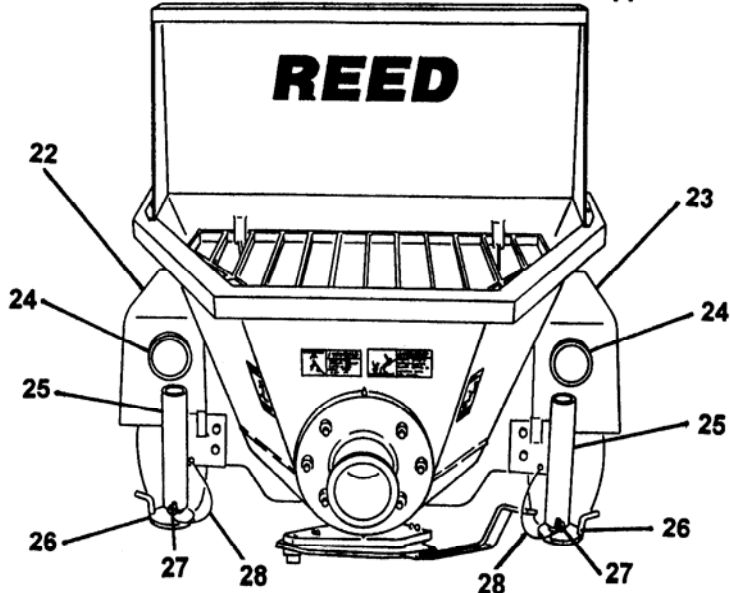
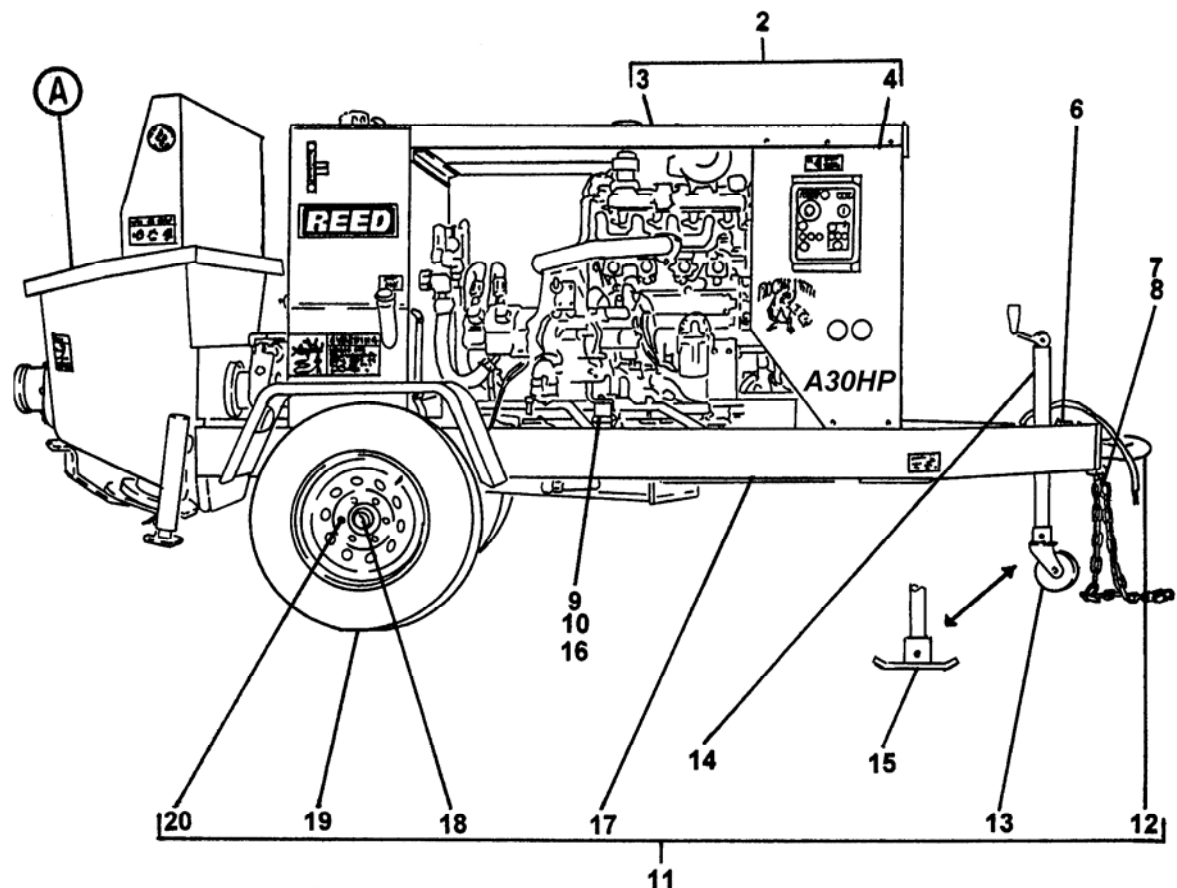
- FIGURE 00** TABLE OF CONTENTS
- FIGURE 01** FRAME INSTALLATION
- FIGURE 02** HUB AND BRAKE ASSEMBLY
- FIGURE 03** NON-OPERATOR SIDE ELECTRIC BRAKE ASSEMBLY
- FIGURE 04** OPERATOR SIDE ELECTRIC BRAKE ASSEMBLY





FRAME INSTALLATION

A30HP  
PARTS  
GROUP 70  
FIGURE 01  
PAGE 01

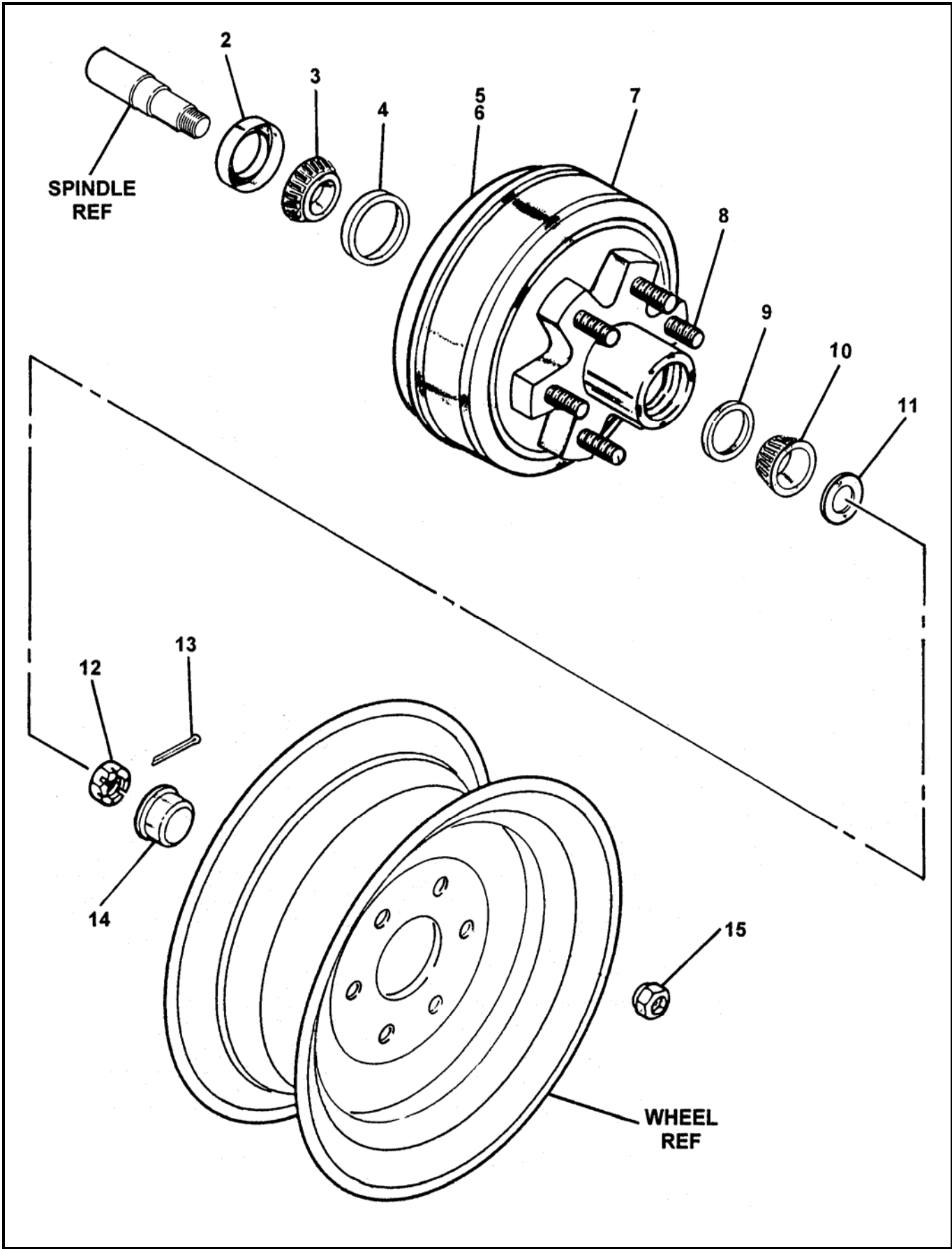


ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	70-01	Installation, Frame (See Group 10, Figure 01 for NHA)	Ref
2	BW45020	• Group, Cover	1
3	BW10320	• • Cover, Engine Top	1
4	BW10251	• • Cover, Engine Front	1
-5	BW41010	• Group, Frame	1
6	77705	• • Kit, Break Away	1
7	86243	• • Connector, Chain	2
8	86242	• • Chain, 3/8 Proof Coil GR 30 Zinc 6 FT	1
9	BW10266	• • Engine Mount-Front (Yellow)	2
10	BW10270	• • Engine Mount-Rear (Green)	2
11	BW10252	• • Assembly, Frame	1
12	71051	• • • Lunette, 3 Inch Eye	1
13	BW10099	• • • Jack, Caster	1
14	BW10098	• • • Jack	1
15	BW10169	• • • Jack, Foot	1
16	BW10267	• • • Fender Washer-3/4" ID	4
17	BW10250	• • • Weldment, Frame	1
18	BW10095	• • • Axle	1
19	BW10096	• • • Assembly, Tire and Wheel	2
20	70-02	• • • Assembly, Hub and Brake (See Group 70, Figure 02 for DET)	1
-21	BW10180	• • • Spacer, Axle Mount	2
22	BW10124	• • Weldment, Left Fender	1
23	BW10123	• • Weldment, Right Fender	1
24	72948	• • Light, Tail	2
25	BW10114	• • Weldment, Outrigger Outer Tube	2
26	BW10110	• • Weldment, Outrigger Inner Leg	2
27	85595	• • Pin, Outrigger Safety	2
28	800418	• • Lanyard, Q/R Pin	2
-29	85981	• • Clamp, Loom	3
-30	86759	• • Grommet, Trailer	5
-31	801902-007	• • Clamp, Tube-Single	6
-32	801902-001	• • Nut, Tee-Tube Clamp	10
		DASH (-) ITEM NOT ILLUSTRATED	

REVISION:

## HUB AND BRAKE ASSEMBLY

**A30HP**  
**PARTS**  
GROUP 70  
FIGURE 02  
PAGE 01



REVISION:

ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	70-02	Assembly, Hub and Brake (Left And Right Side) (See Group 70, Figure 01 for NHA)	Ref
2	86709	• Seal, Double Lip Grease	2
3	71094	• Bearing, Inner	2
4	71092	• Race, Inner Bearing	2
5	71056-L	• Assembly, Non-Operator Side Electric Brake (Set) (See Group 70, Figure 03 for DET)	1
6	71056-R	• Assembly, Operator Side Electric Brake (Set) (See Group 70, Figure 04 for DET)	1
7		• Assembly, Drum And Hub	2
8		• Stud, Wheel	12
9		• Race, Outer Bearing	2
10		• Bearing, Outer	2
11		• Washer, Spindle	2
12		• Nut, Spindle	2
13		• Pin, Cotter	2
14		• Cap, Dust	2
15		• Nut, Wheel	12

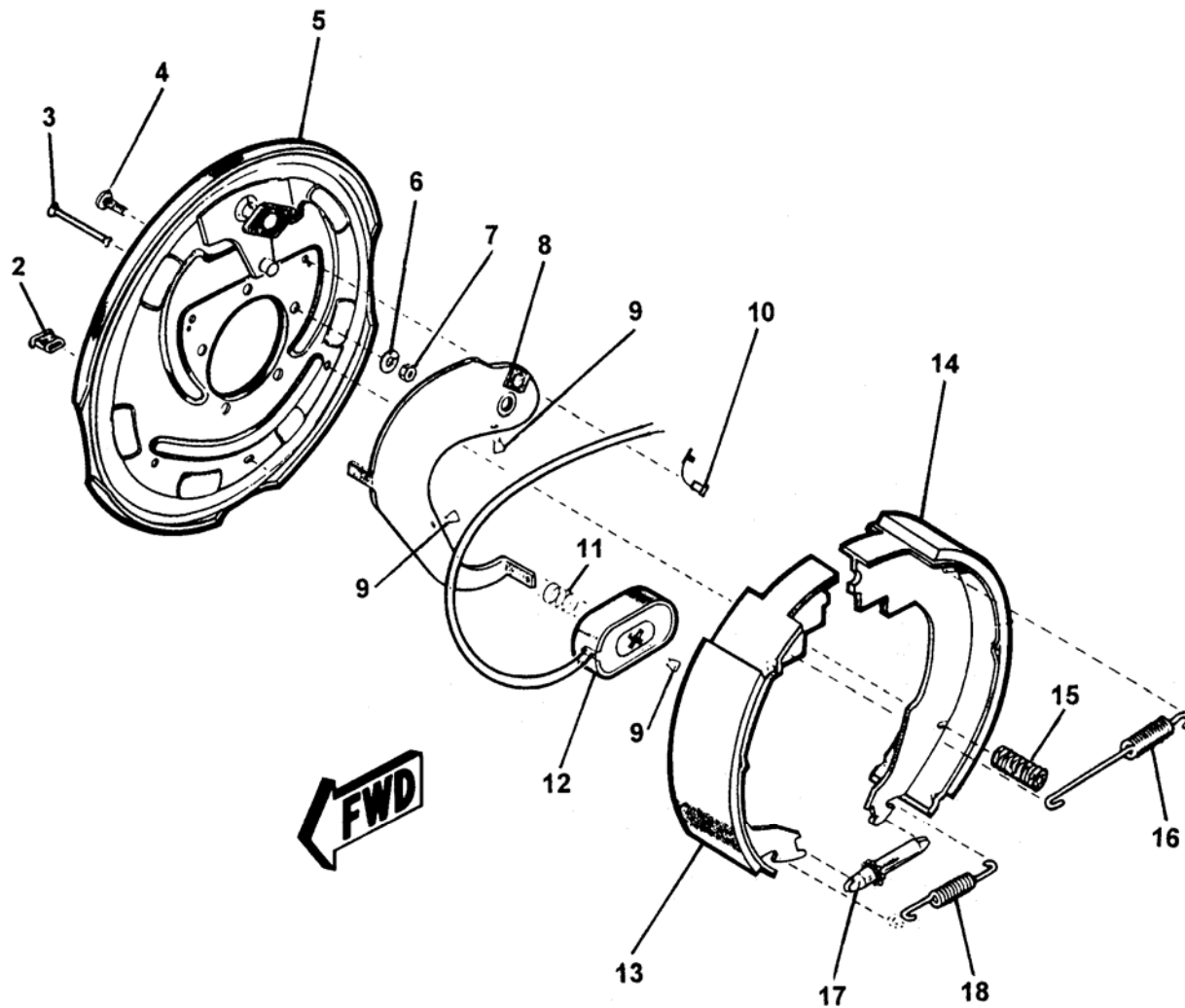
DASH (-) ITEM NOT ILLUSTRATED





# NON OPERATOR SIDE ELECTRIC BRAKE ASSEMBLY

**A30HP**  
**PARTS**  
GROUP 70  
FIGURE 03  
PAGE 01



REVISION:

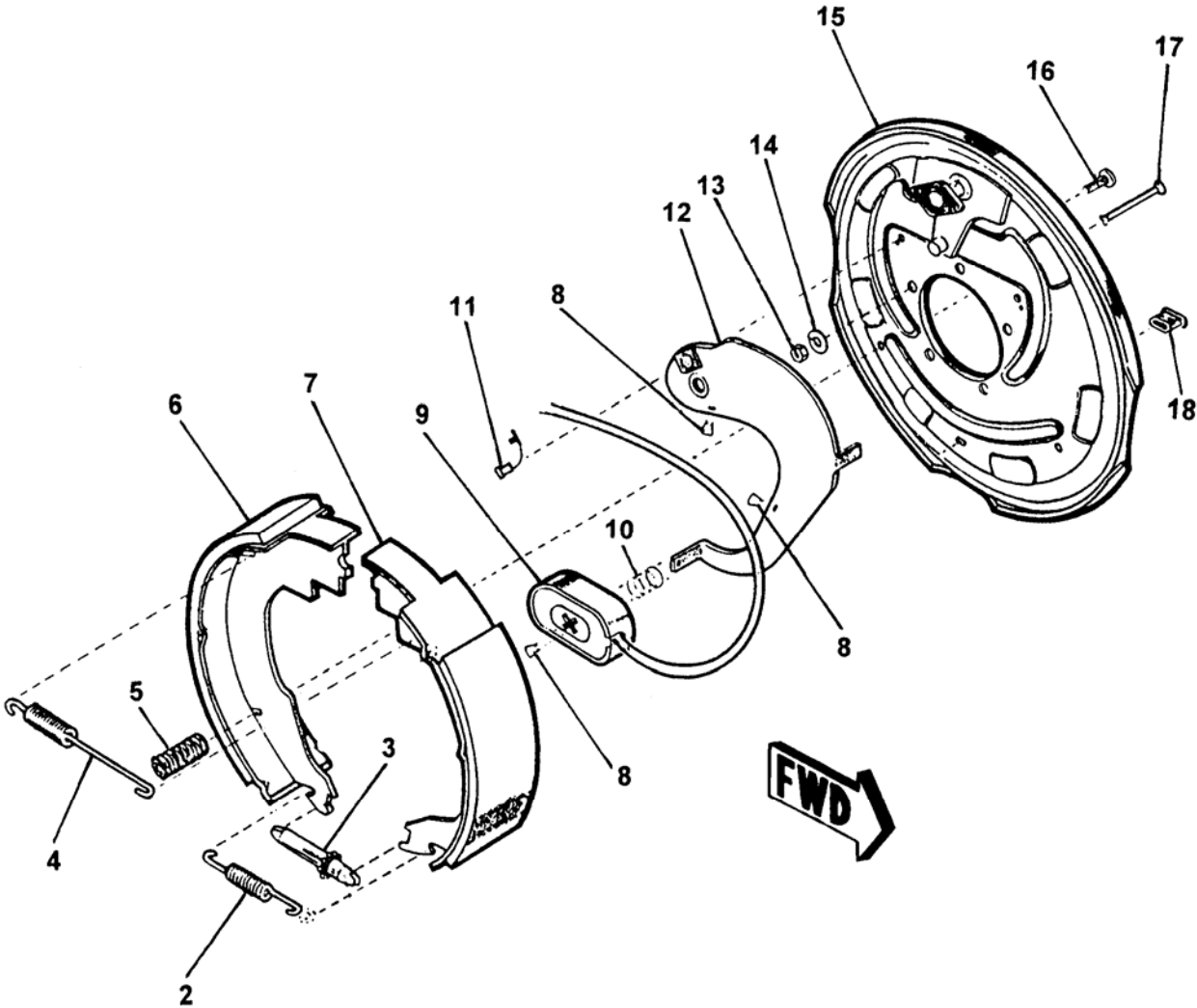
ITEM NO.	REED 'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	71056-L	Assembly, Non-Operator Side Electric Brake (See Group 70, Figure 02 for NHA)	Ref
2		• Slot, Plug Adjust	1
3		• Pin, Shoe Hold down	1
4		• Stud, Brake Mounting	5
5		• Assembly, Baking Plate	1
6		• Washer, Brake Lock	5
7		• Nut, Brake Mounting	5
8		• Lever, Non-Operator Side	1
9		• Clip, Wire and Magnet	3
10		• Relief, Strain	2
11		• Spring, Magnet	1
12		• Sub-Assembly, Magnet	1
13		• Shoe and Lining, Primary	1
14		• Shoe and Lining, Secondary	1
15		• Spring, Shoe Hold down	1
16		• Spring, Shoe Retractor	1
17		• Sub-Assembly, Adjuster Screw	1
18		• Spring, Adjuster Screw	1

DASH (-) ITEM NOT ILLUSTRATED



OPERATOR SIDE  
ELECTRIC BRAKE ASSEMBLY

A30HP  
PARTS  
GROUP 70  
FIGURE 04  
PAGE 01



ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	71056-R	Assembly, Operator Side Electric Brake (See Group 70, Figure 02 for NHA)	Ref
2		• Spring, Adjuster Screw	1
3		• Sub-Assembly, Adjuster Screw	1
4		• Spring, Shoe Retractor	1
5		• Spring, Shoe Hold down	1
6		• Shoe and Lining, Secondary	1
7		• Shoe and Lining, Primary	1
8		• Clip, Wire and Magnet	3
9		• Sub-Assembly, Magnet	1
10		• Spring, Magnet	1
11		• Relief, Strain	2
12		• Lever, Operator Side	1
13		• Nut, Brake Mounting	5
14		• Washer, Brake Lock	5
15		• Assembly, Baking Plate	1
16		• Stud, Brake Mounting	5
17		• Pin, Shoe Hold down	1
18		• Slot, Plug Adjust	1

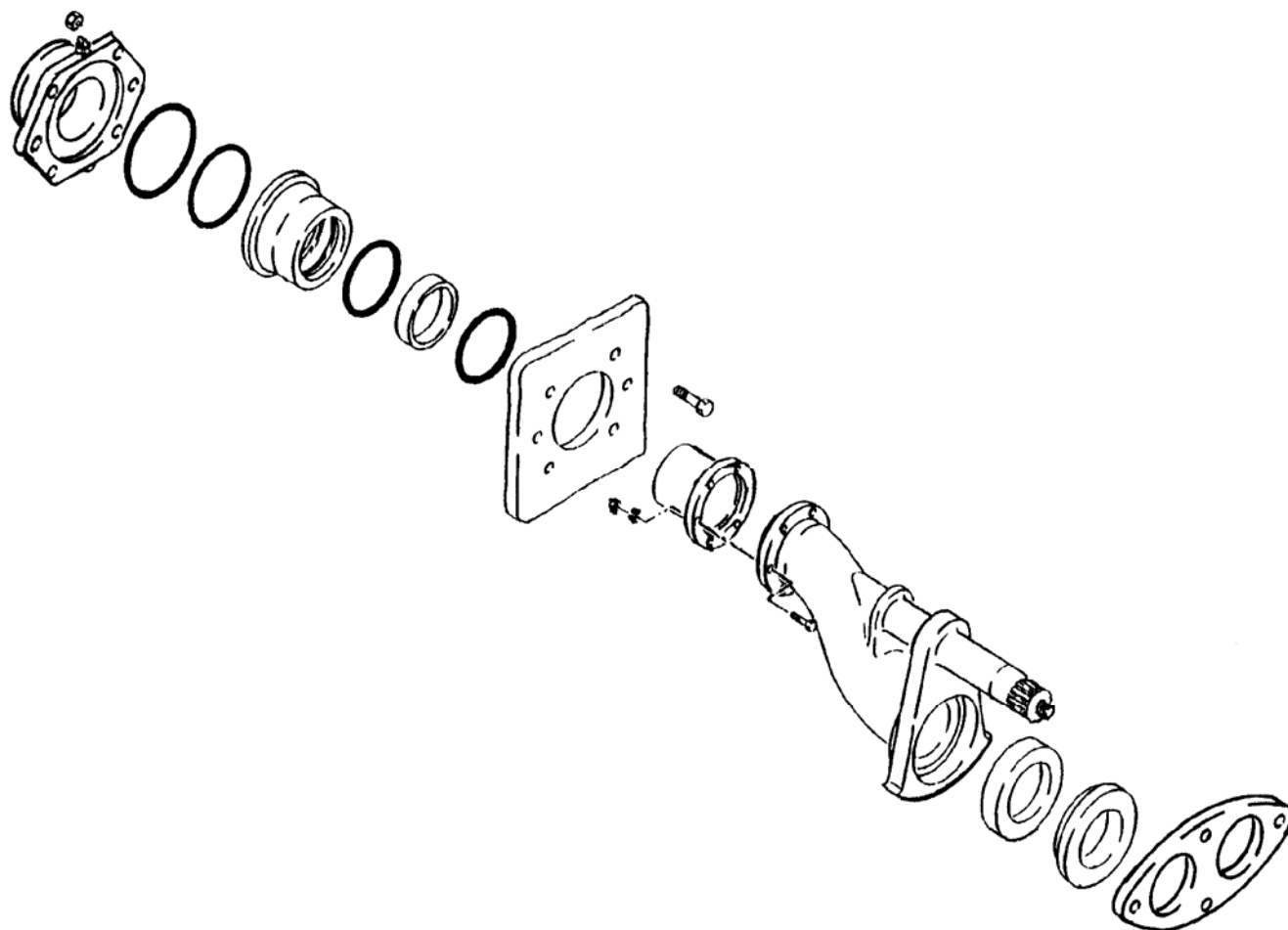
DASH (-) ITEM NOT ILLUSTRATED



**TRAILER MOUNTED PUMP - A30HP  
ILLUSTRATED PARTS MANUAL**

**A30HP**  
**PARTS**  
GROUP 70  
FIGURE 05  
PAGE 01

THIS PAGE INTENTIONALLY LEFT BLANK.



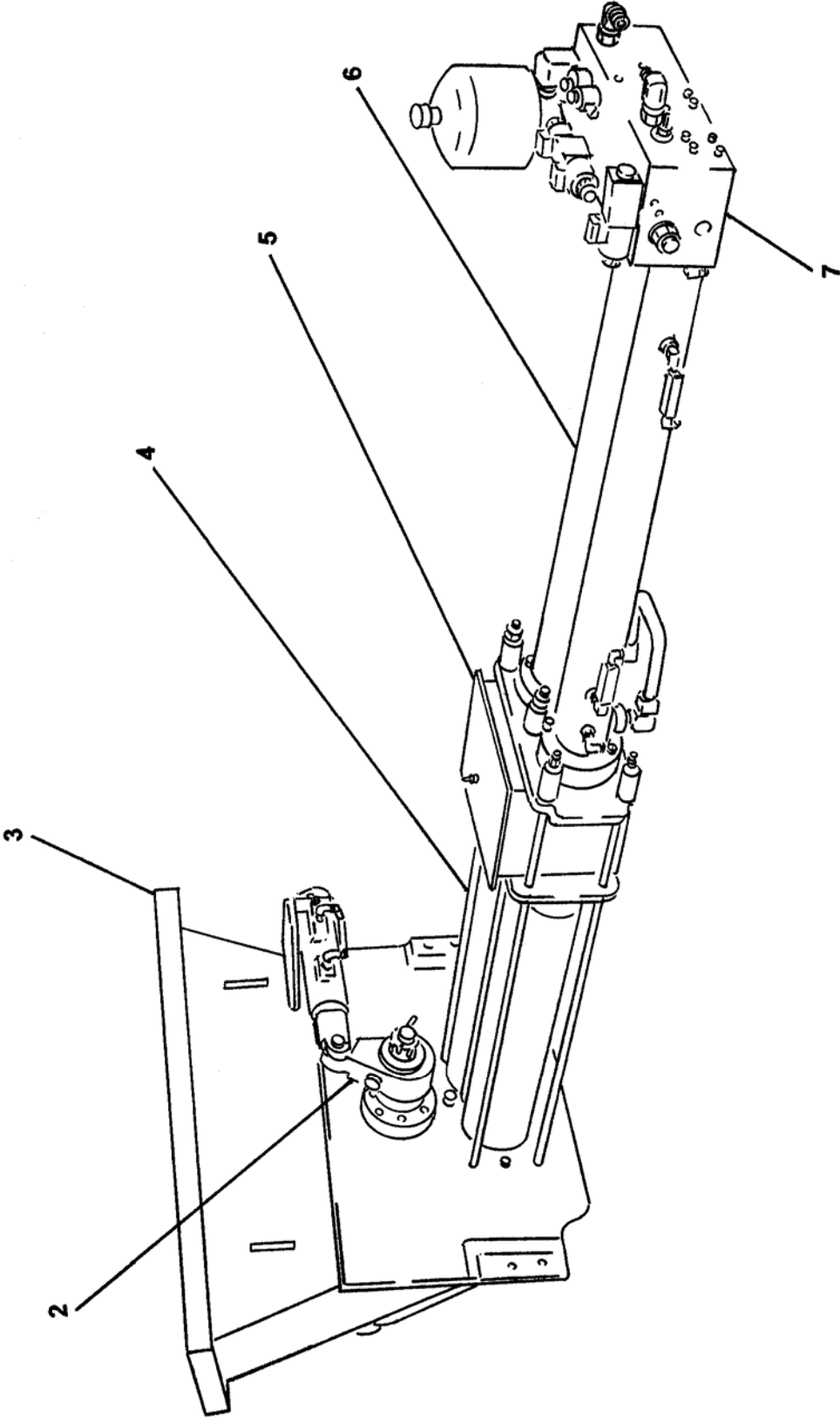
**REED** TRAILER MOUNTED CONCRETE PUMP MODEL **A30HP** ILLUSTRATED PARTS MANUAL GROUP 60 PUMPING TRAIN INSTALLATION CONTAINS THE FOLLOWING FIGURES:

- FIGURE 00** TABLE OF CONTENTS
- FIGURE 01** PUMPING TRAIN INSTALLATION
- FIGURE 02** SWING VALVE ASSEMBLY
- FIGURE 03** SWING RAM CYLINDER SUB-ASSEMBLY
- FIGURE 04** CONCRETE CYLINDER ASSEMBLY
- FIGURE 05** FLUSHBOX ASSEMBLY
- FIGURE 06** HYDRAULIC DRIVE CYLINDER ASSEMBLY
- FIGURE 07** LEFT HAND SIDE DRIVE CYLINDER SUB-ASSEMBLY
- FIGURE 08** RIGHT HAND SIDE DRIVE CYLINDER SUB-ASSEMBLY
- FIGURE 09** CONTROL MANIFOLD WITH CARTRIDGE ASSEMBLY
- FIGURE 10** REVERSE CIRCUIT PILOTSOLENOID VALVE ASSEMBLY
- FIGURE 11** MAIN CYCLING CIRCUIT PILOT SOLENOID VALVE ASSEMBLY



PUMPING TRAIN INSTALLATION

A30HP  
PARTS  
GROUP 60  
FIGURE 01  
PAGE 01



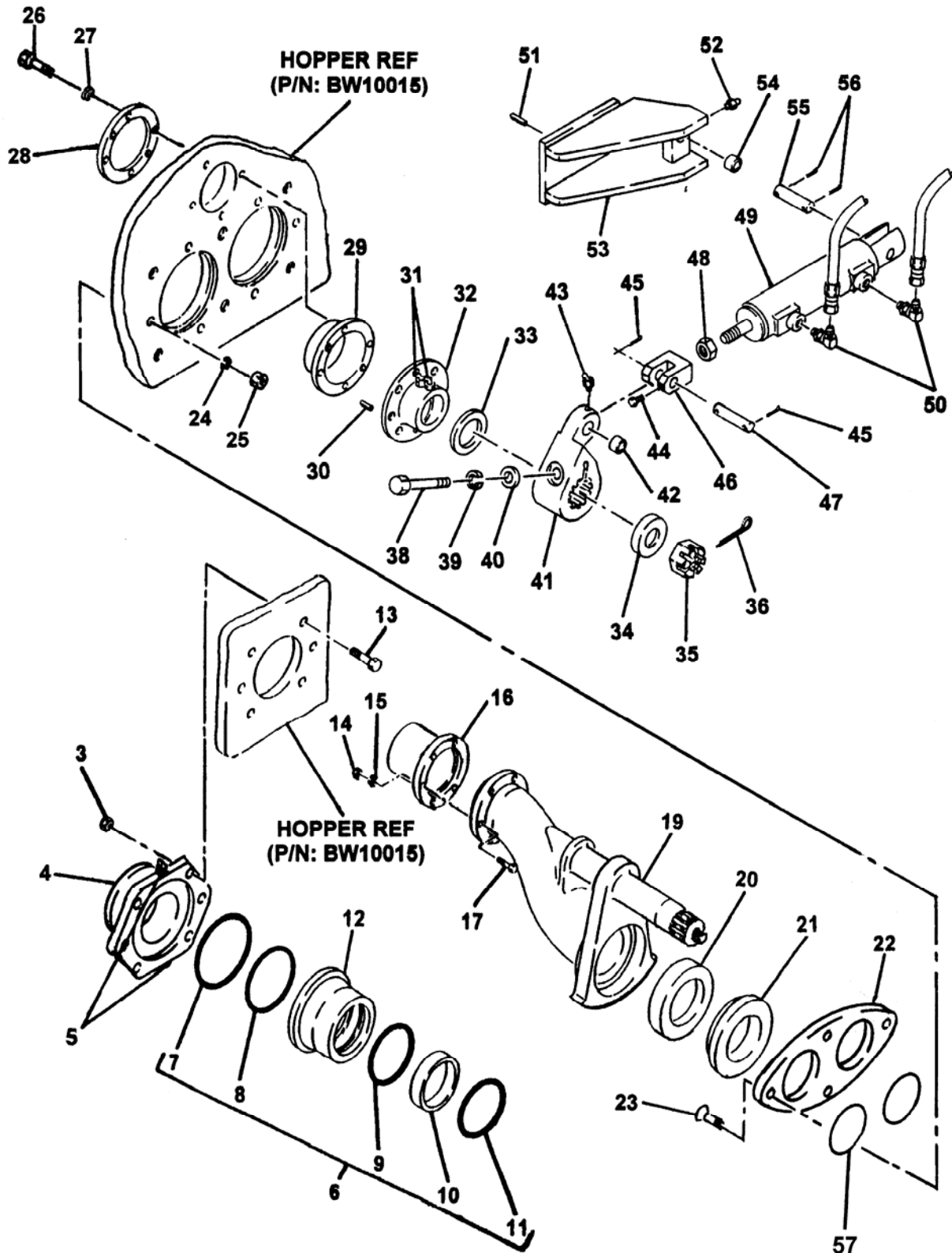
ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	60-01	Installation, Pumping Train (See Group 10, Figure 01 and Figure 03 for NHA)	Ref
2	60-02	• Assembly, Swing Valve (See Group 60, Figure 02 for DET)	1
3	20-01	• Installation, Hopper (See Group 20, Figure 01 for REF)	Ref
4	BW23000	• Assembly, Concrete Cylinder (See Group 60, Figure 04 for DET)	1
5	60-05	• Assembly, Flushbox (See Group 60, Figure 05 for DET)	1
6	BW21000	• Assembly, Hydraulic Drive Cylinder (See Group 60, Figure 06 for DET)	1
7	BW10004	• Assembly, Control Manifold with Cartridge (See Group 60, Figure 09 for DET)	1

DASH (-) ITEM NOT ILLUSTRATED



## **SWING VALVE ASSEMBLY**

**A30HP**  
**PARTS**  
 GROUP 60  
 FIGURE 02  
 PAGE 01



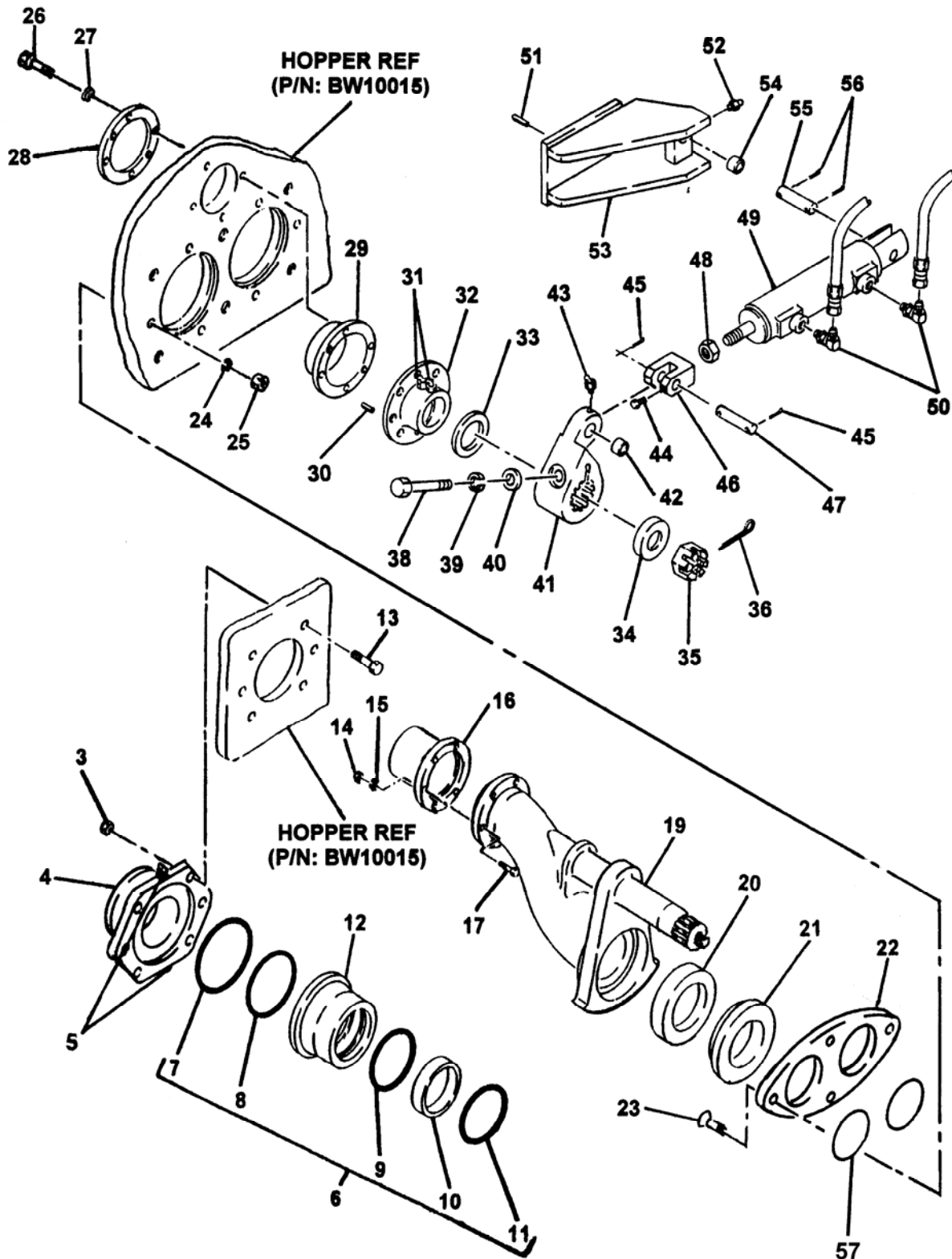
REVISION:

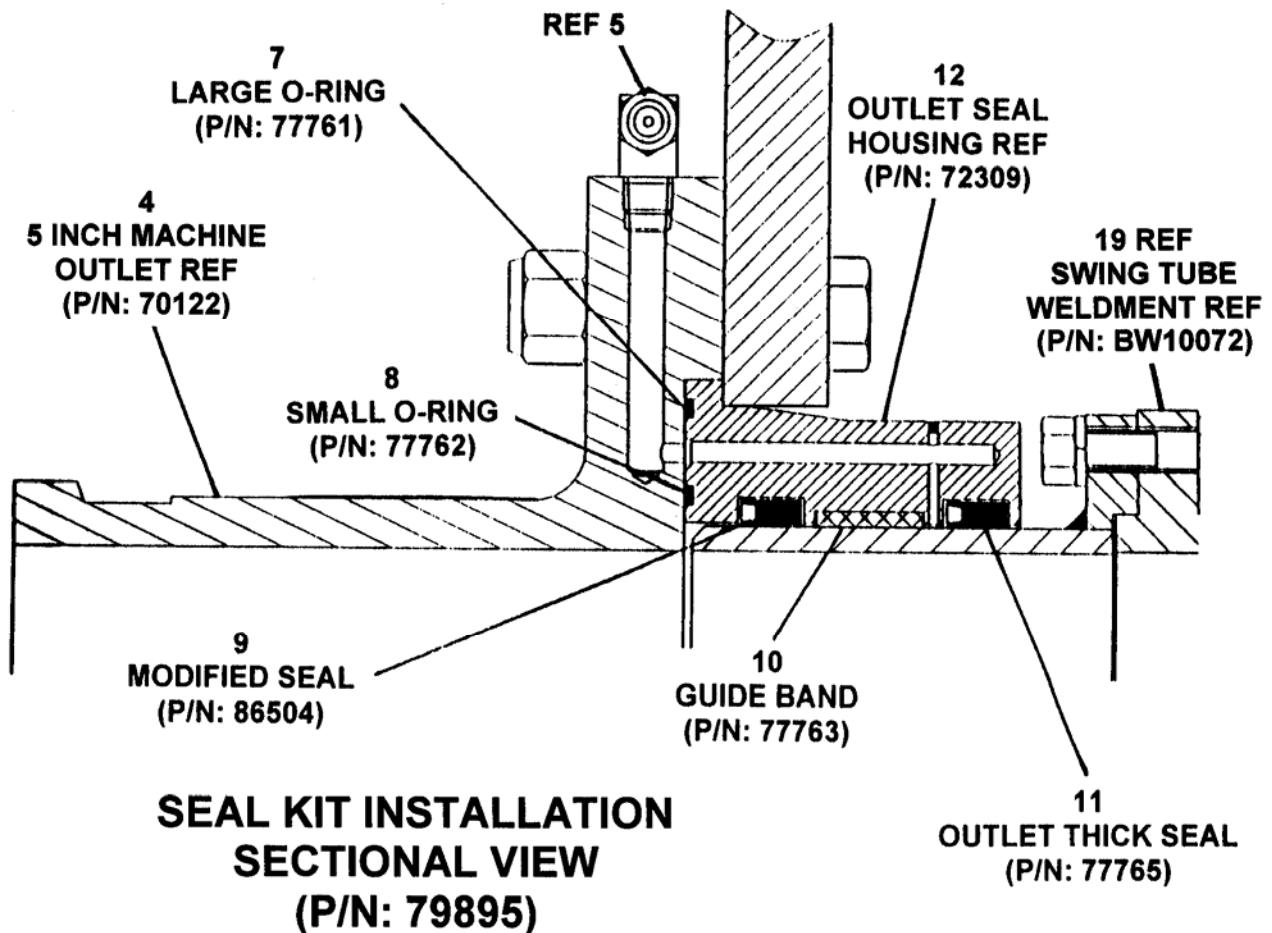
ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	60-02	Assembly, Swing Valve (See Group 60, Figure 01 for NHA)	Ref
-2	86321	• Assembly, Outlet Group	1
3		• • Nut	6
4	70122	• • Outlet, Machine 5"	1
5		• • Fitting, Grease	2
6	79895	• • Kit, Outlet Seal	1
7	77761	• • • O-Ring, Large	1
8	77762	• • • O-Ring, Small	1
9	86504	• • • Seal, Modified Outlet Thick	1
10	77763	• • • Band, Guide	1
11	77765	• • • Seal, Outlet Thick	1
12	72309	• • Housing, Outlet Seal	1
13		• • Bolt, Hex	6
14		• • Nut, Nylock (attaching parts)	6
15		• • Washer, Lock (attaching parts)	6
16	70042	• • Outlet, Chromed	1
17		• • Bolt, Hex (attaching parts)	6
-18	BW25000	• Assembly, Swing Tube Group	1
19	BW10072	• • Weldment, Swing Tube	1
20	BW10020	• • Seal, 5 Inch	1
21	BW10021	• • Ring, 5 Inch Wear	1
22	BW10023	• • Plate, Wear	1
23		• • Bolt, Flat Head	4
24		• • Washer, Lock	4
25		• • Nut, Hex	4
26		• • Bolt, Hex	6
27		• • Washer, Lock	6
28	BW10024	• • Ring, Space	1
29	85962	• • Seal, Flange Bearing	1
30		• • Pin, Dowel	1
31		• • Fitting, Grease 90	2
32	85133	• • Bearing, 3 Inch Spline Flange	1
33	85294	• • Washer, Thrust	1
34	85134	• • Spacer, Swing Tube Nut	1
35	70825	• • Nut, Swing Tube	1
36		• • Pin Cotter	1
-37	BW26000	• Assembly, Swing Tube Shift Group	1
38		• • Bolt, Hex	1
39		• • Washer, Flat	1
40		• • Washer, Lock	1
41	85131	• • Crank, 3 Inch Spline Bell	1

DASH (-) ITEM NOT ILLUSTRATED

## **SWING VALVE ASSEMBLY**

**A30HP**  
**PARTS**  
 GROUP 60  
 FIGURE 02  
 PAGE 03



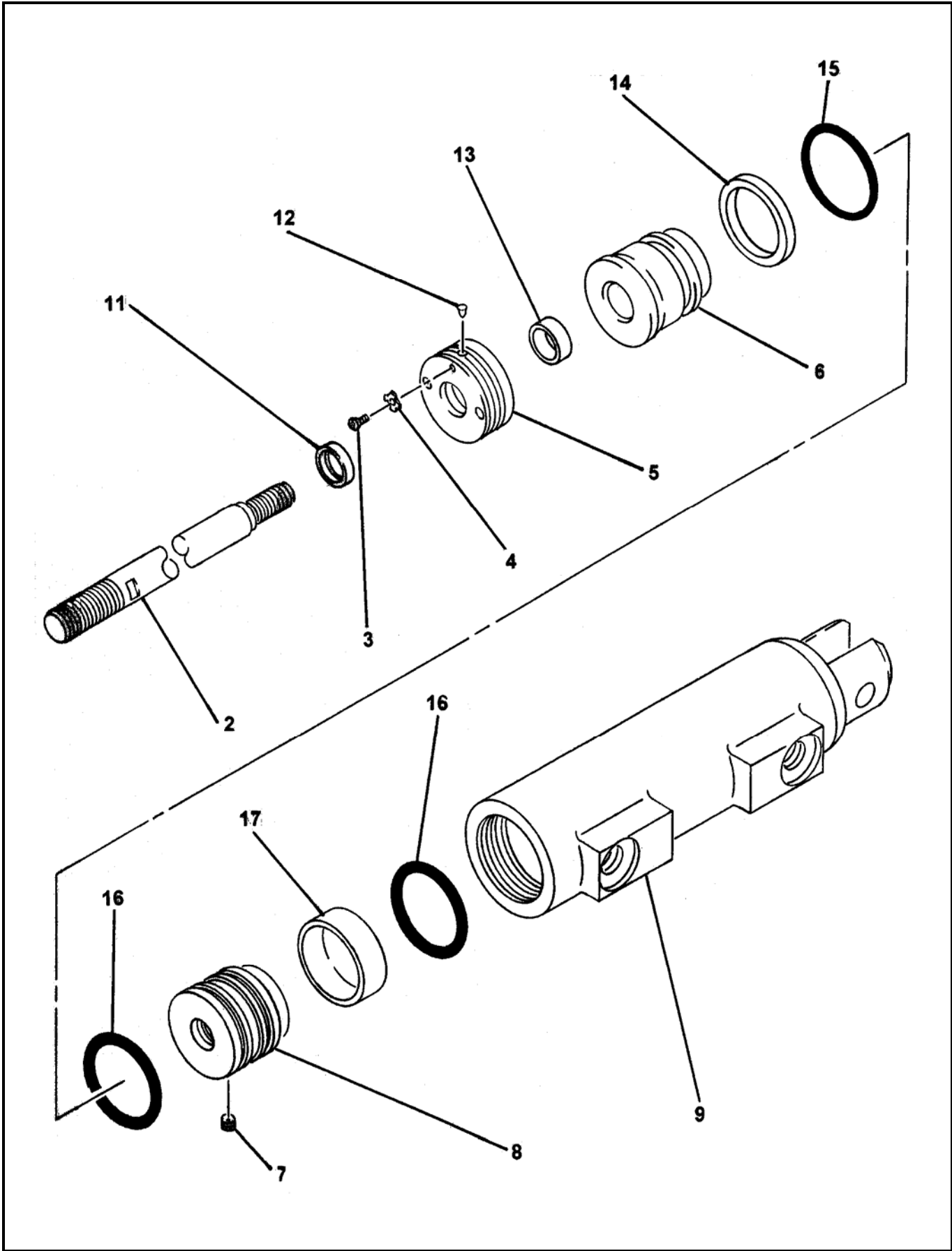


ITEM NO.	REED'S PARTS NO.	DESCRIPTION					QTY
		1	2	3	4	5	
42	85538	• • • Race, Inner					1
43		• • Fitting, Grease 90					1
44		• • Bolt, Hex					1
45		• • Pin, Cotter					2
46	86135	• • Clevis, Swing Ram Cylinder					1
47	86150	• • Pin, Clevis					1
48		• • Nut, Hex					1
49	BW10125	• • Assembly, Swing Ram Cylinder (See Group 60, Figure 03 for DET)					1
50		• • Fitting, 90					2
51	86052	• • Pin, Spring					2
52		• • Fitting, Grease STR					1
53	85947	• • Bracket, Swing Cylinder					1
54	71011	• • • Bushing, Shift Cylinder					1
55	74207	• • Pin, Clevis					1
56		• • Pin, Cotter					2
57	BW10031	• • Ring, Anti-Chip 5"					2
DASH (-) ITEM NOT ILLUSTRATED							



# SWING RAM CYLINDER ASSEMBLY

A30HP  
PARTS  
GROUP 60  
FIGURE 03  
PAGE 01



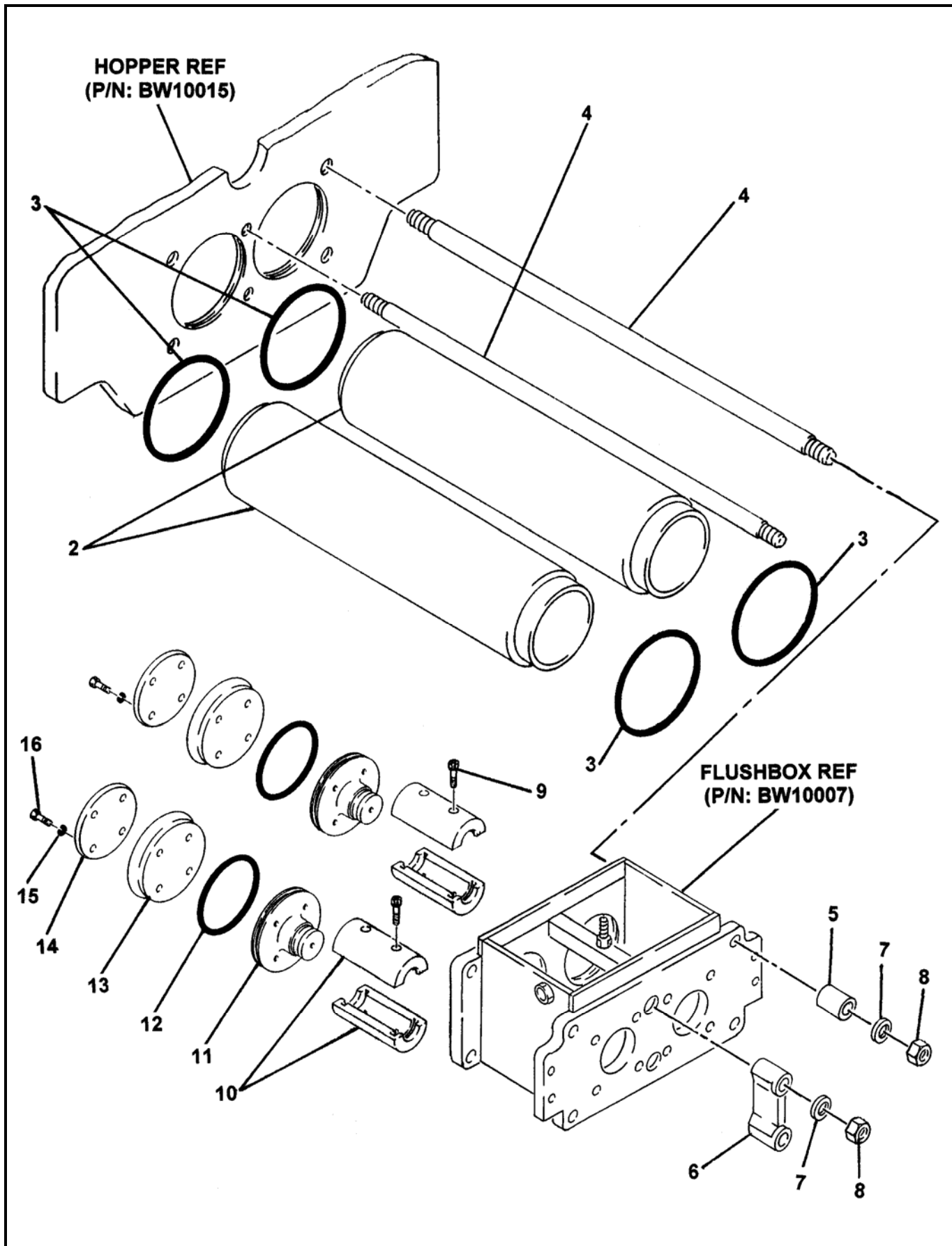
REVISION:

**SWING RAM CYLINDER ASSEMBLY**

ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	BW10125	Assembly, Swing Ram Cylinder (See Group 60, Figure 02 for NHA)	Ref
2		• Rod, Cylinder	1
3		• Screw, Cap	1
4		• Washer, Lock	1
5		• Ring, Threaded	1
6		• Gland, Head	1
7		• Screw, Set	1
8		• Piston	1
9		• Weldment, Cylinder Case	1
-10	86221-SK	• Kit, Seal	1
11		• • Wiper, Rod	1
12		• • Plug, Nylon	1
13		• • U-Cup	1
14		• • Seal, Back Up	1
15		• • O-Ring	1
16		• • Seal, Piston	2
17		• • Ring, Wear	1

DASH (-) ITEM NOT ILLUSTRATED





REVISION:

ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	BW23000	Assembly, Concrete Cylinder (See Group 60, Figure 01 for NHA)	Ref
2	BW10003	• Cylinder, Concrete	2
3	BW10028	• O-Ring, Concrete Cylinder	4
4	BW10018	• Rod, Tie	6
5	BW10038	• Spacer, Tie Rod	4
6	BW10016	• Assembly, Tie Rod Spacer	1
7		• Washer, Flat (attaching Parts)	6
8		• Nut, Hex (attaching Parts)	6
9		• Screw, Cap	4
10	73425	• Coupling, Piston	2
11	BW10000	• Adapter, 5 Inch Piston	2
12	BW10032	• Ring, 5 Inch Guide	2
13	BW10001	• Cup, 5 Inch Piston	2
14	BW10002	• Plate, 5 Inch Piston	2
15		• Washer, Star (attaching Parts)	8
16		• Bolt, Hex (attaching Parts)	8

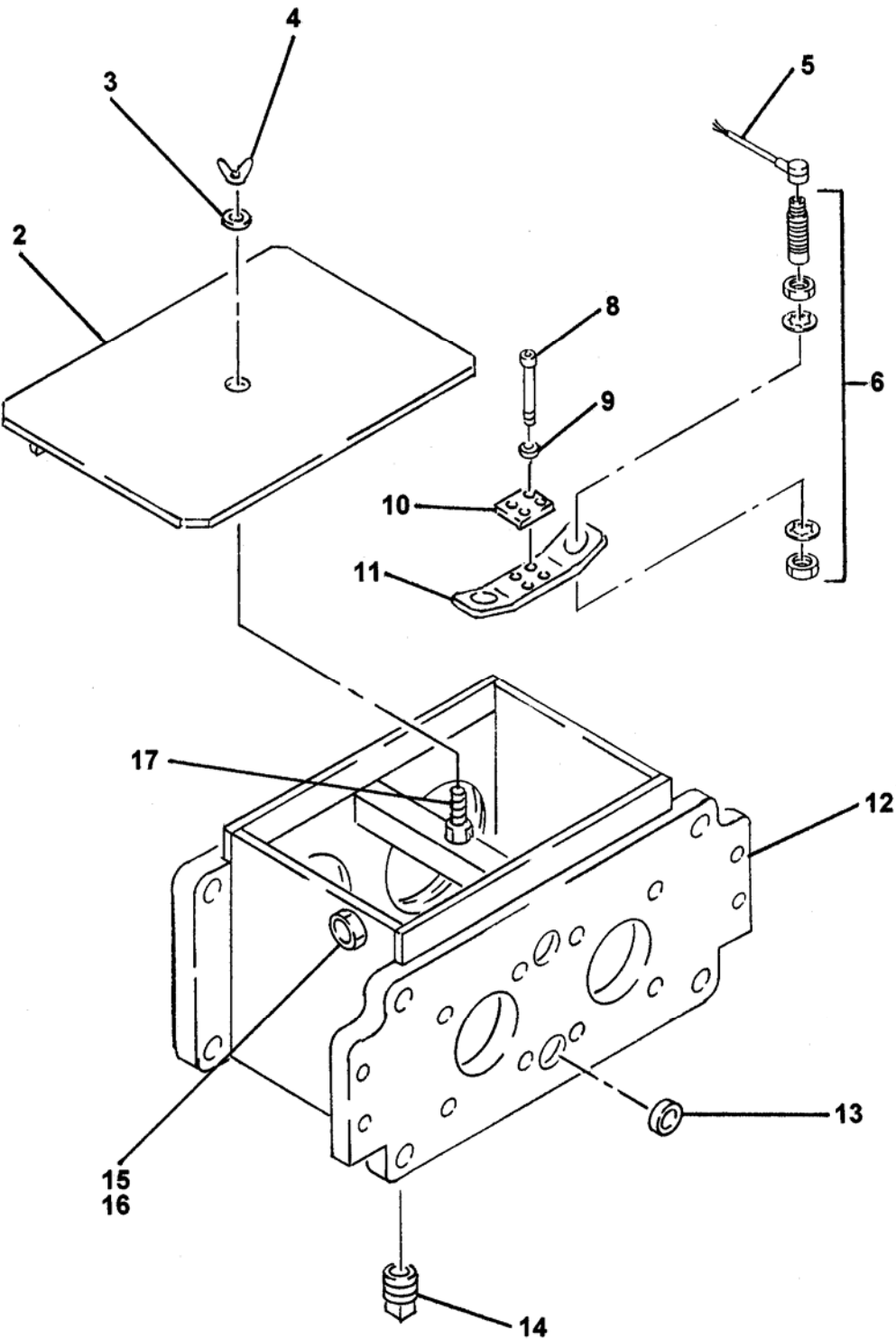
DASH (-) ITEM NOT ILLUSTRATED





FLUSH BOX ASSEMBLY

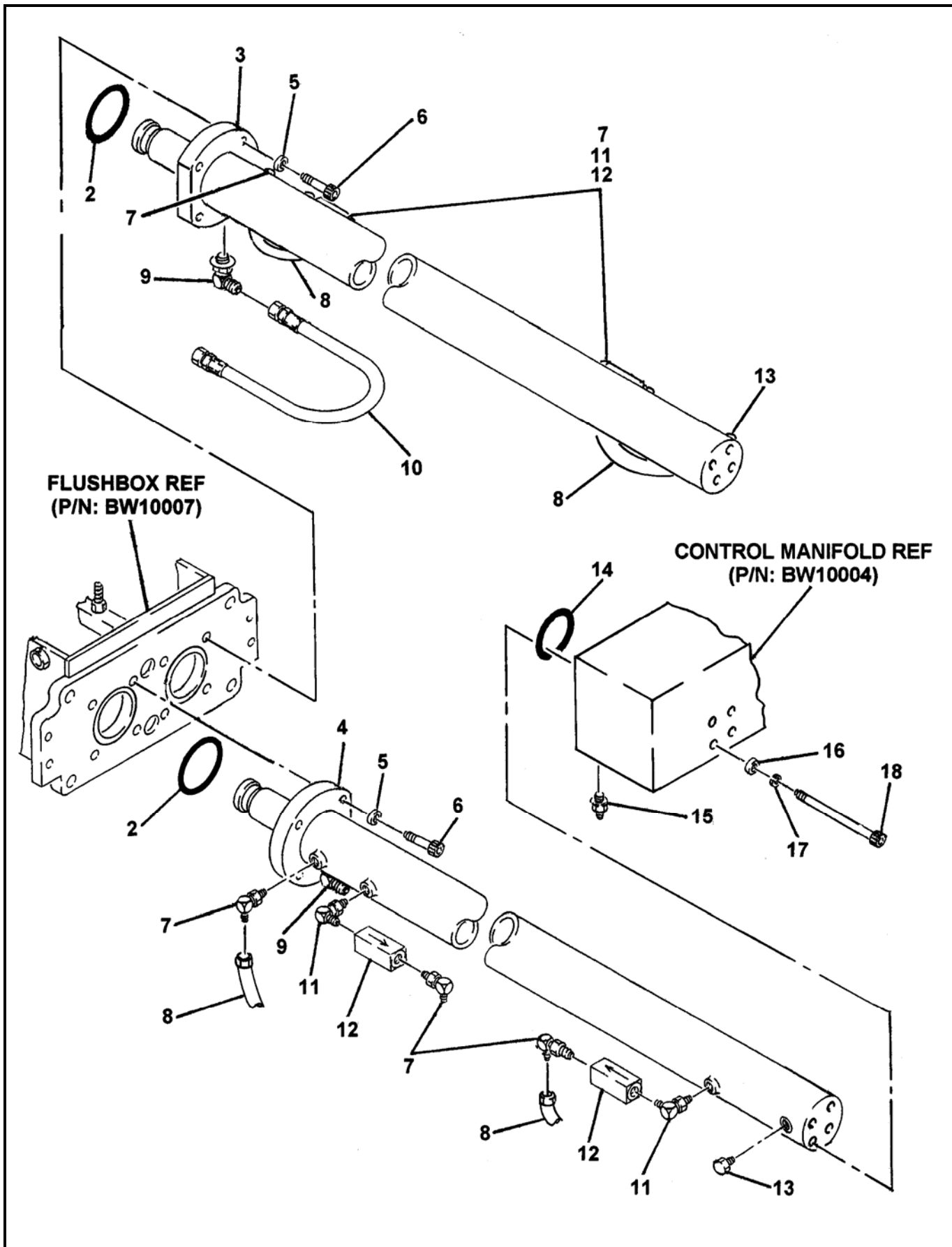
A30HP  
PARTS  
GROUP 60  
FIGURE 05  
PAGE 01



REVISION:

ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	60-05	Assembly, Flushbox (See Group 60, Figure 01 for NHA)	Ref
2	BW10091	• Weldment, Flush Box Cover	1
3		• Washer, Flat	1
4		• Nut, Wing	1
5	77990	• Cable, Proximity Switch	2
6	77998	• Sensor, Proximity Switch	2
-7	BW22000	• Assembly, Flush Box Group	1
8		• • Bolt	4
9		• • Washer, Lock	4
10	BW10102	• • Bracket, Proximity Switch	1
11	BW10101	• • Bracket, Proximity Switch	1
12	BW10007	• • Weldment, 5 Inch Flush Box	1
13	BW10030	• • Seal, Oil	4
14	10282	• • Plug	1
15	10528	• • Nut	1
16	73783	• • Conduit, Fitting	1
17		• • Stud	1

DASH (-) ITEM NOT ILLUSTRATED

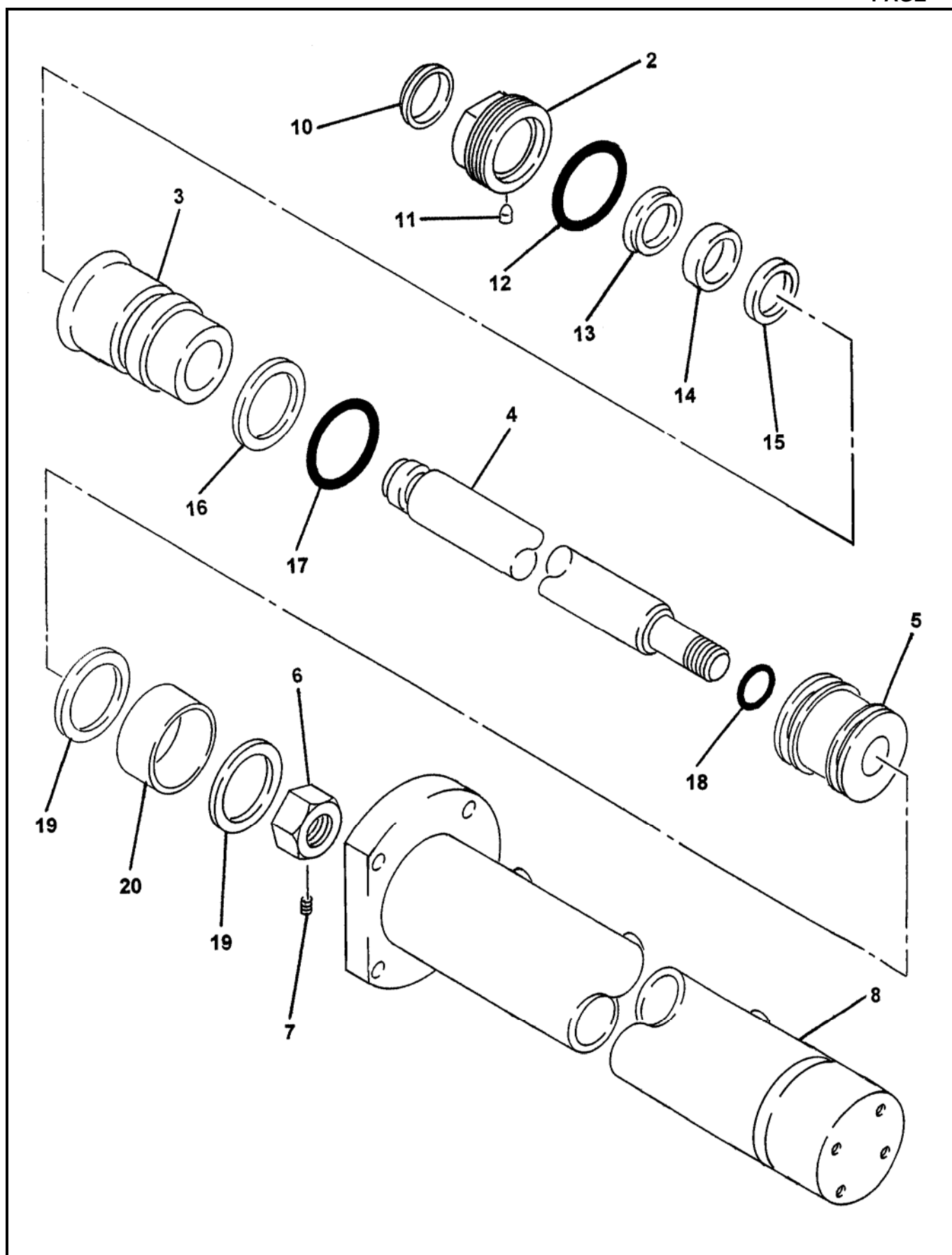


ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	BW21000	Assembly, Hydraulic Drive Cylinder (See Group 60, Figure 01 and Figure 02 for NHA)	Ref
2	BW10029	• O-Ring	2
3	BW10120	• Assembly, Left Hand Side Drive Cylinder (See Group 60, Figure 07 for DET)	1
4	BW10119	• Assembly, Right Hand Side Drive Cylinder (See Group 60, Figure 08 for DET)	1
5		• Washer, Lock (attaching parts)	8
6		• Bolt (attaching parts)	8
7		• Fitting, 90	6
8	BW10051	• Assembly, Hose	4
9		• Fitting, 90	2
10	BW10043	• Assembly, Lube Line Hydraulic Tube	1
11		• Fitting, 90	4
12	78961	• Valve, Check	4
13		• Plug	2
14	BW10177	• O-Ring	2
15		• Fitting, STR	2
16	BW10155	• Washer, Hardened	8
17		• Washer, Lock	8
18		• Bolt	8

DASH (-) ITEM NOT ILLUSTRATED

## LEFT HAND SIDE DRIVE CYLINDER ASSEMBLY

A30HP  
PARTS  
GROUP 60  
FIGURE 07  
PAGE 01



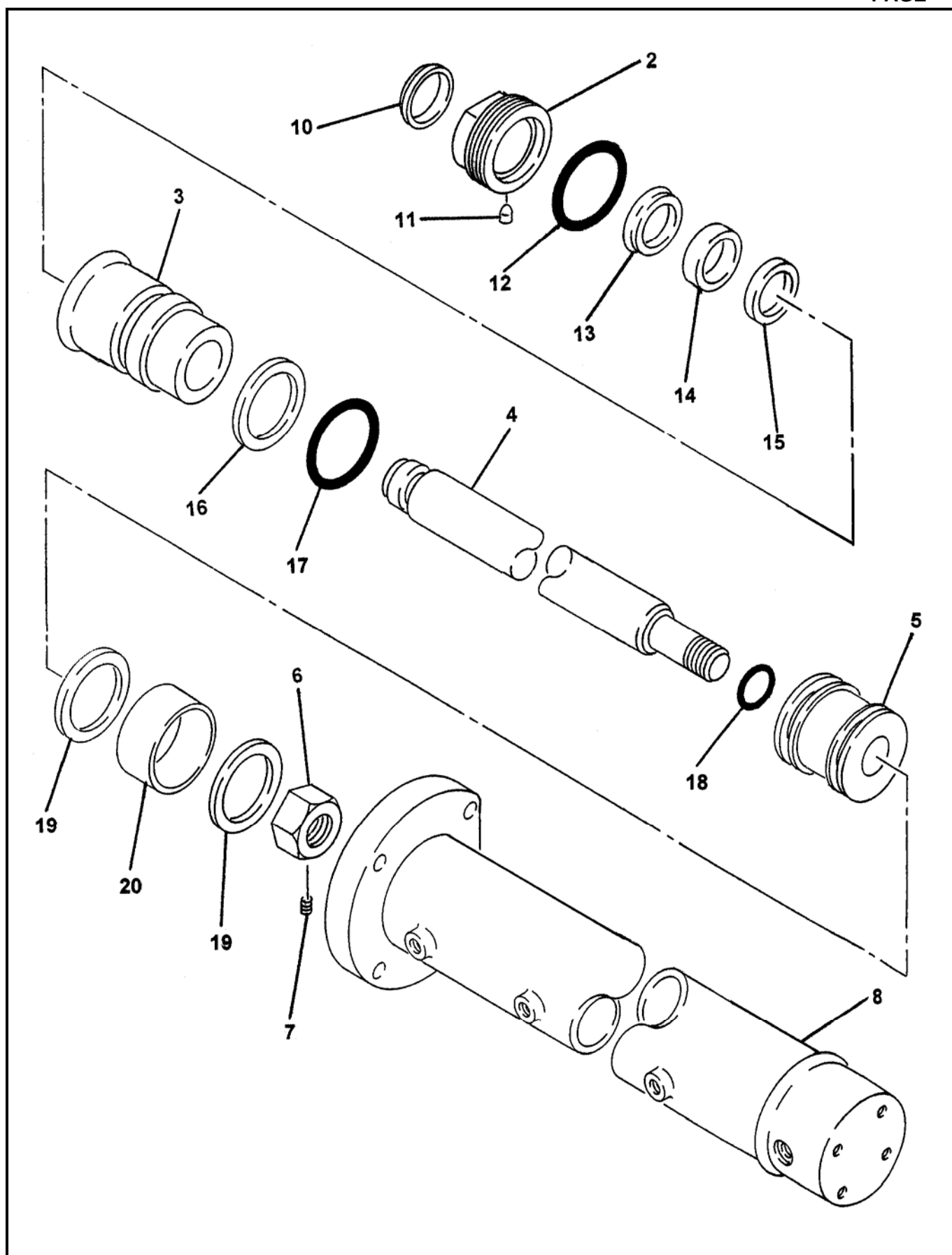
**LEFT HAND SIDE  
DRIVE CYLINDER ASSEMBLY**

ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	BW10120	Assembly, Left Hand Side Drive Cylinder (See Group 60, Figure 06 for NHA)	Ref
2		• Ring, Threaded	1
3		• Gland, Head	1
4		• Rod, Cylinder	1
5		• Piston	1
6		• Nut, Piston	1
7		• Plug	1
8		• Weldment, Cylinder Case	1
-9	BW10120-SK	• Kit, Seal	1
10		• • Wiper, Rod	1
11		• • Plug, Nylon	1
12		• • O-Ring	1
13		• • Ring, Back Up	1
14		• • U-Cup	1
15		• • Seal, Buffer	1
16		• • Ring, Back Up	1
17		• • O-Ring	1
18		• • O-Ring	1
19		• • Seal, Piston	2
20		• • Ring, Wear	1

DASH (-) ITEM NOT ILLUSTRATED

## RIGHT HAND SIDE DRIVE CYLINDER ASSEMBLY

A30HP  
PARTS  
GROUP 60  
FIGURE 08  
PAGE 01



**RIGHT HAND SIDE  
DRIVE CYLINDER ASSEMBLY**

ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	BW10119	Assembly, Right Hand Side Drive Cylinder (See Group 60, Figure 06 for NHA)	Ref
2		• Ring, Threaded	1
3		• Gland, Head	1
4		• Rod, Cylinder	1
5		• Piston	1
6		• Nut, Piston	1
7		• Plug	1
8		• Weldment, Cylinder Case	1
-9	BW10119-SK	• Kit, Seal	1
10		• • Wiper, Rod	1
11		• • Plug, Nylon	1
12		• • O-Ring	1
13		• • Ring, Back Up	1
14		• • U-Cup	1
15		• • Seal, Buffer	1
16		• • Ring, Back Up	1
17		• • O-Ring	1
18		• • O-Ring	1
19		• • Seal, Piston	2
20		• • Ring, Wear	1

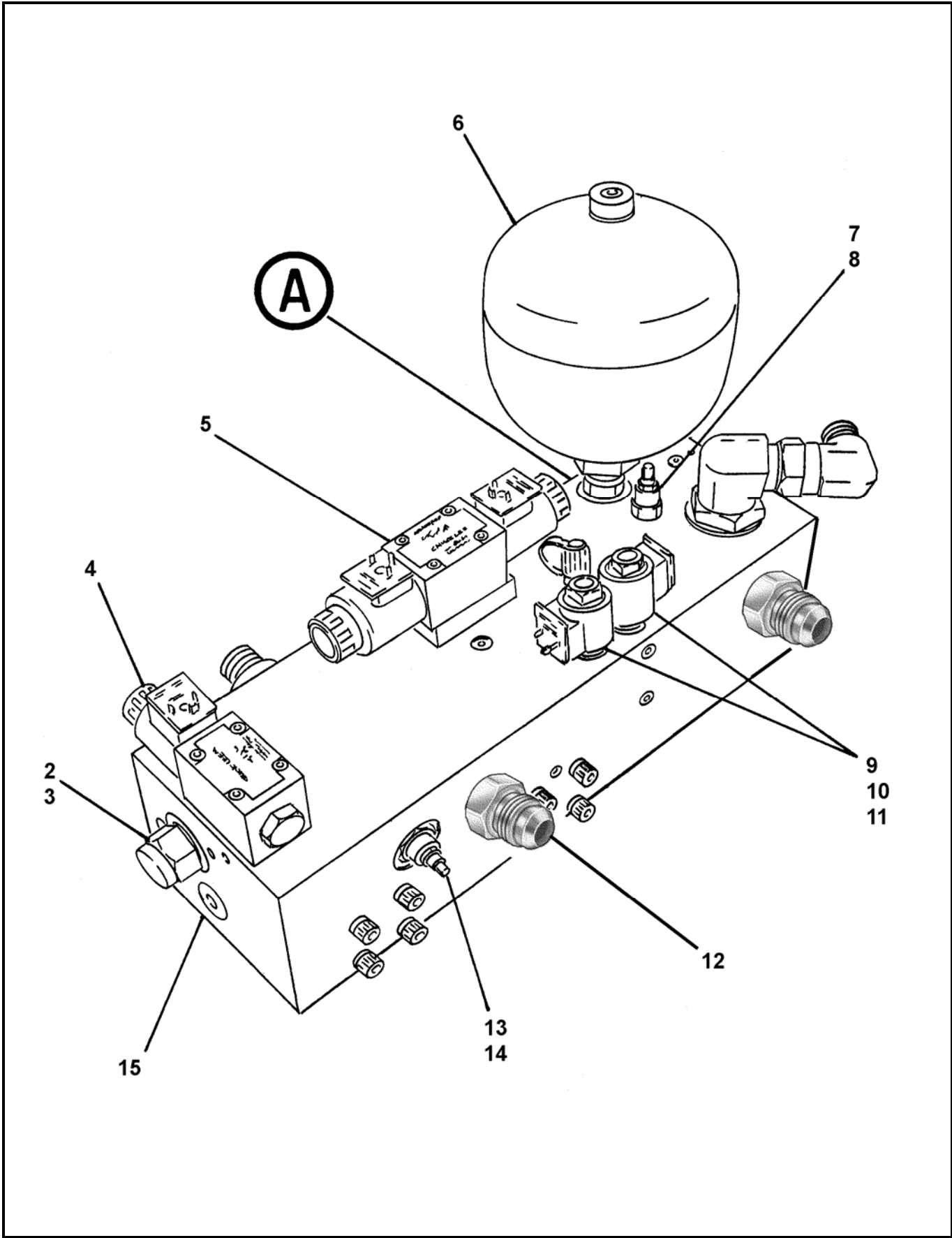
DASH (-) ITEM NOT ILLUSTRATED





CONTROL MANIFOLD  
WITH CARTRIDGE ASSEMBLY

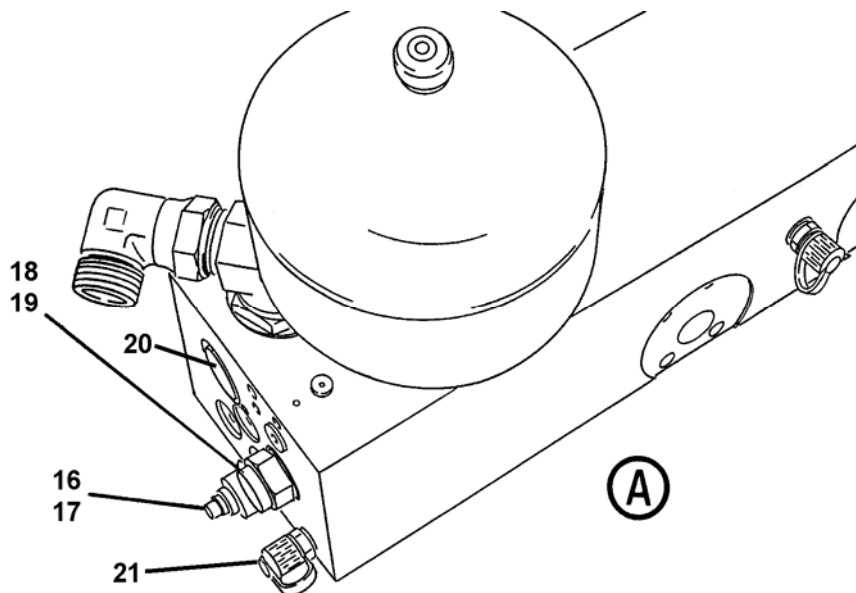
A30HP  
PARTS  
GROUP 60  
FIGURE 09  
PAGE 01



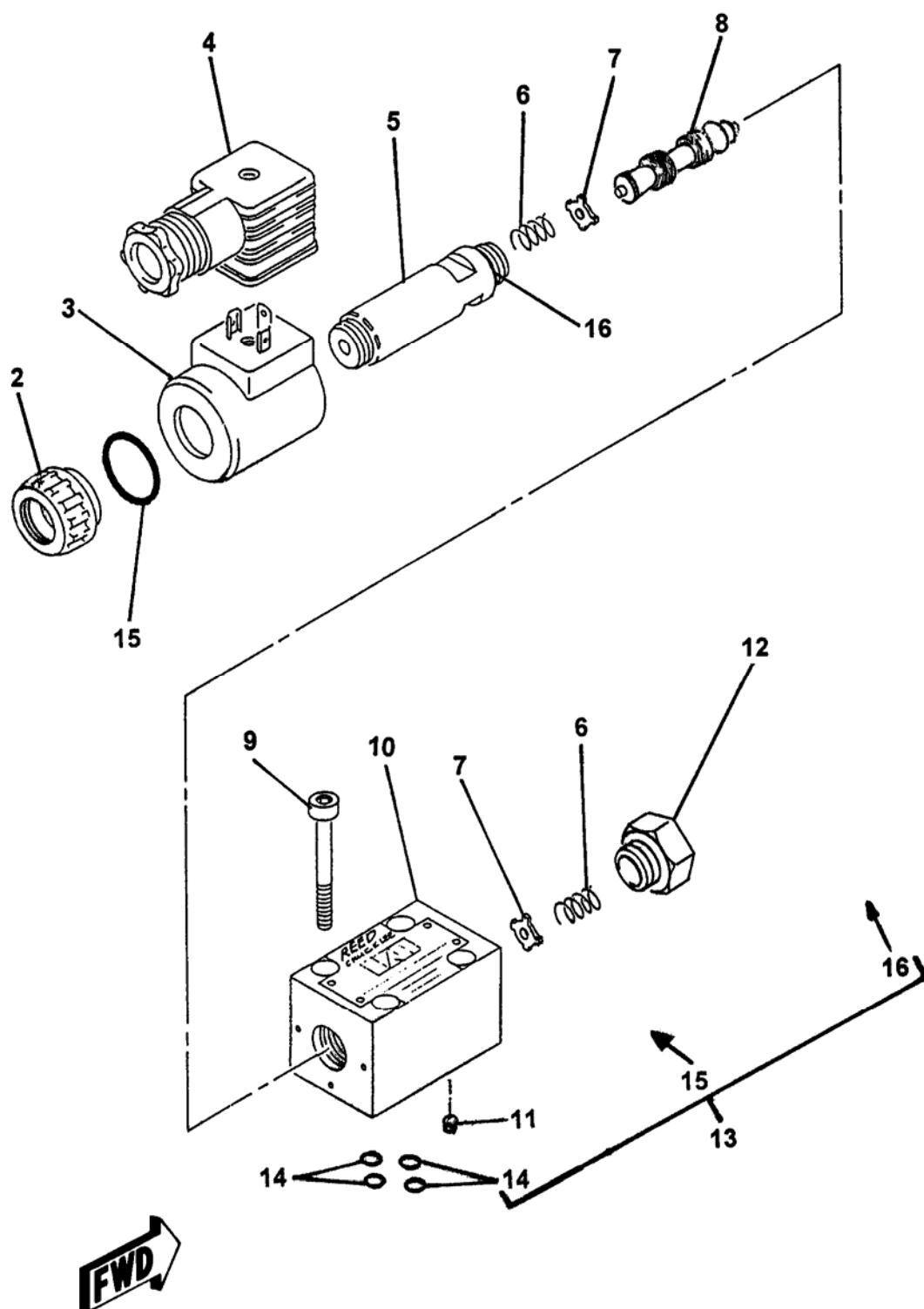
REVISION:

## CONTROL MANIFOLD WITH CARTRIDGE ASSEMBLY

ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	BW10004	Assembly, Control Manifold with Cartridge (See Group 60, Figure 01 for NHA)	Ref
2	BW10181	• Cartridge, Directional Valve	1
3	BW10181-SK	• • Kit, Directional Valve Cartridge Seal	1
4	BW10183	• Assembly, Reverse Circuit Pilot Solenoid Valve (See Group 60, Figure 10 for DET)	1
5	85691	• Assembly, Main Cycling Circuit Pilot Solenoid Valve (See Group 60, Figure 11 for DET)	1
6	BW10184	• Assembly, 2 Liter Accumulator	1
7	85704	• Cartridge, Unloading Valve	1
8	85704-SK	• • Kit, Unloading Valve Cartridge Seal	1
9	BW10185	• Poppet, 2 Way Solenoid Valve Less Coil	2
10	BW10186	• Coil, 2 Way Solenoid Valve	2
11		• Kit, 2 Way Solenoid Valve Seal	2
12	86900-028	• Adapter, MB-MJ-16-16	4
13	BW10326	• Cartridge, Relief Valve	1
14		• • Kit, Relief Valve Cartridge Seal	1
15	BW10325	• Body, Manifold	1
16	85703	• Cartridge, Relief Valve	1
17	85703-SK	• • Kit, Relief Valve Cartridge Seal	1
18	BW10182	• Cartridge, Directional Valve	1
19	BW10182-SK	• • Kit, Directional Valve Cartridge Seal	1
20	BW10327	• Valve, Check	1
21	78593	• Adapter, Minicheck	3
-22	86900-024	• Adapter, MB-MJ-12-16	1
-23	BW10328	• Adapter, MB-MB-12-12	1
-24	86900-023	• Adapter, MB-MJ-12-12	2
-25	86728-028	• Elbow, MB-MJ90-20-24	1
-26	86905-012	• Elbow, MJ-FJX90-24-24	1
-27	BW10177	• O-Ring-#219	2
-28	BW10329	• SHCS 10-24 x 2" Long	8
DASH (-) ITEM NOT ILLUSTRATED			



REVISION:



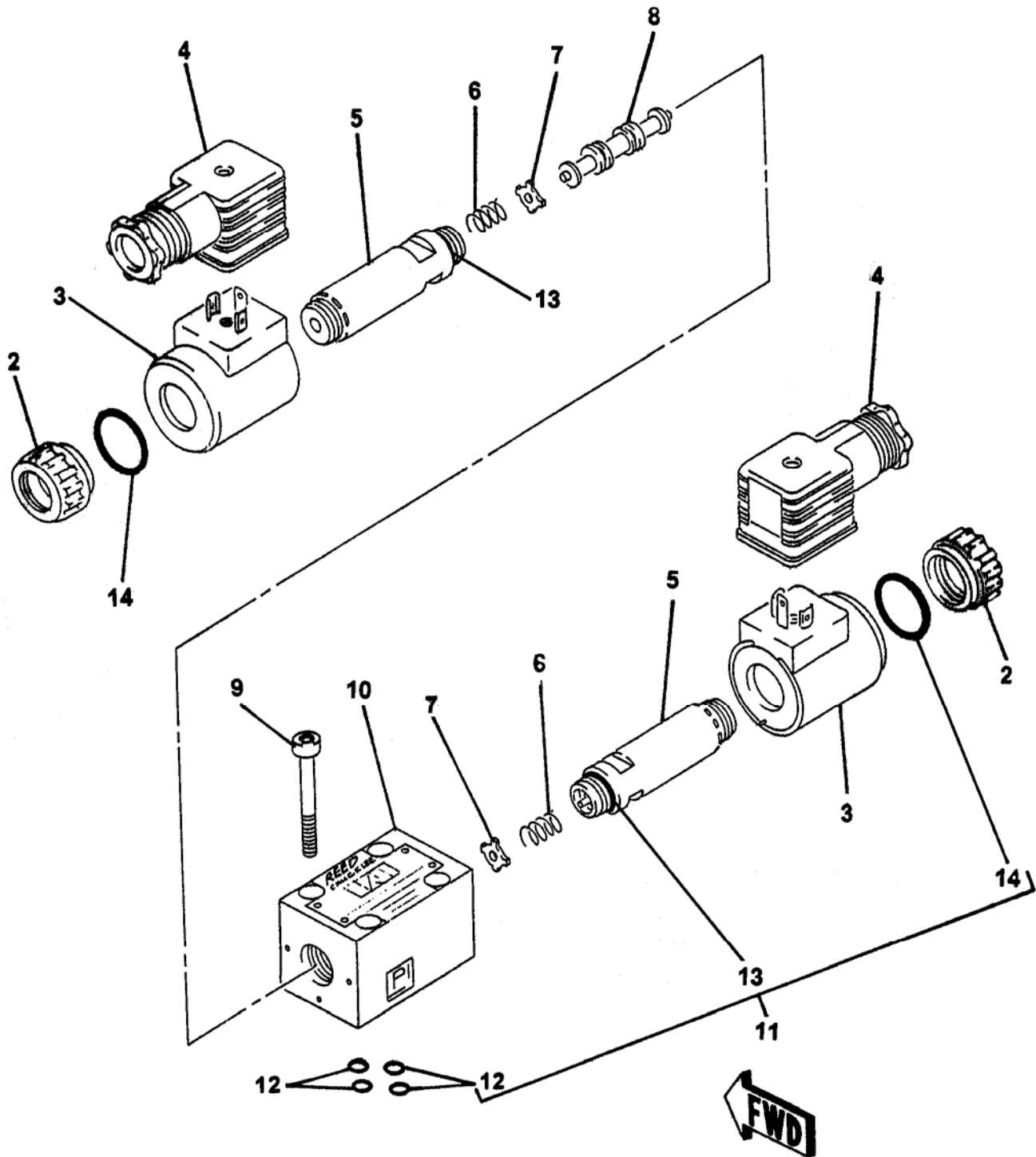
**REVERSE CIRCUIT PILOT  
SOLENOID VALVE ASSEMBLY**

ITEM NO.	REED 'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	BW10183	Assembly, Reverse Circuit Pilot Solenoid Valve (See Group 60, Figure 09 for NHA)	Ref
2		• Cap, Coil	1
3	85692	• Coil, Drive Cylinder Circuit Main Solenoid	1
4	74597	• Connector, Plug	1
5		• Amature	1
6		• Spring	2
7		• Plate, Spring	2
8		• Spool	1
9		• Screw, SOC	4
10		• Housing, Solenoid Valve	1
11		• Orifice	1
12		• Plug	1
13	72313	• Kit, O-Ring	1
14		• • O-Ring	4
15		• • O-Ring	1
16		• • O-Ring	1

DASH (-) ITEM NOT ILLUSTRATED

## MAIN CYCLING CIRCUIT PILOT SOLENOID VALVE ASSEMBLY

A30HP  
PARTS  
GROUP 60  
FIGURE 11  
PAGE 01



**MAIN CYCLING CIRCUIT  
PILOT SOLENOID VALVE ASSEMBLY**

ITEM NO.	REED 'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	85691	Assembly, Main Cycling Circuit Pilot Solenoid Valve (See Group 60, Figure 09 for NHA)	Ref
2		• Cap, Coil	2
3	85692	• Coil, Solenoid	2
4	74597	• Connector, Plug	2
5		• Amature	2
6		• Spool	1
7		• Screw, SOC	4
8		• Housing, Solenoid Valve	1
9		• Detent	1
10		• Orifice	1
11	72313	• Kit, O-ring	1
12		• • O-Ring	4
13		• • O-ring	2
14		• • O-ring	2

DASH (-) ITEM NOT ILLUSTRATED



**TRAILER MOUNTED PUM - *A30HP*  
ILLUSTRATED PARTS MANUAL**

***A30HP***  
**PARTS**  
GROUP 60  
FIGURE 12  
PAGE 01

THIS PAGE INTENTIONALLY LEFT BLANK.

**REED** TRAILER MOUNTED CONCRETE PUMP MODEL **A30HP** ILLUSTRATED PARTS MANUAL GROUP 80 OPTIONAL INSTALLATION CONTAINS THE FOLLOWING FIGURES:

<b>FIGURE 00</b>	TABLE OF CONTENTS
<b>FIGURE 01</b>	OPTIONAL INSTALLATION
<b>FIGURE 02</b>	HOPPER VIBRATOR ASSEMBLY
<b>FIGURE 03</b>	OPTIONAL TOOL KIT ASSEMBLY
<b>FIGURE 04</b>	ACTUATOR-SURGE BRAKES ASSEMBLY
<b>FIGURE 05</b>	NON-OPERATOR SIDE HYDRAULIC BRAKE ASSEMBLY
<b>FIGURE 06</b>	OPERATOR SIDE HYDRAULIC BRAKE ASSEMBLY

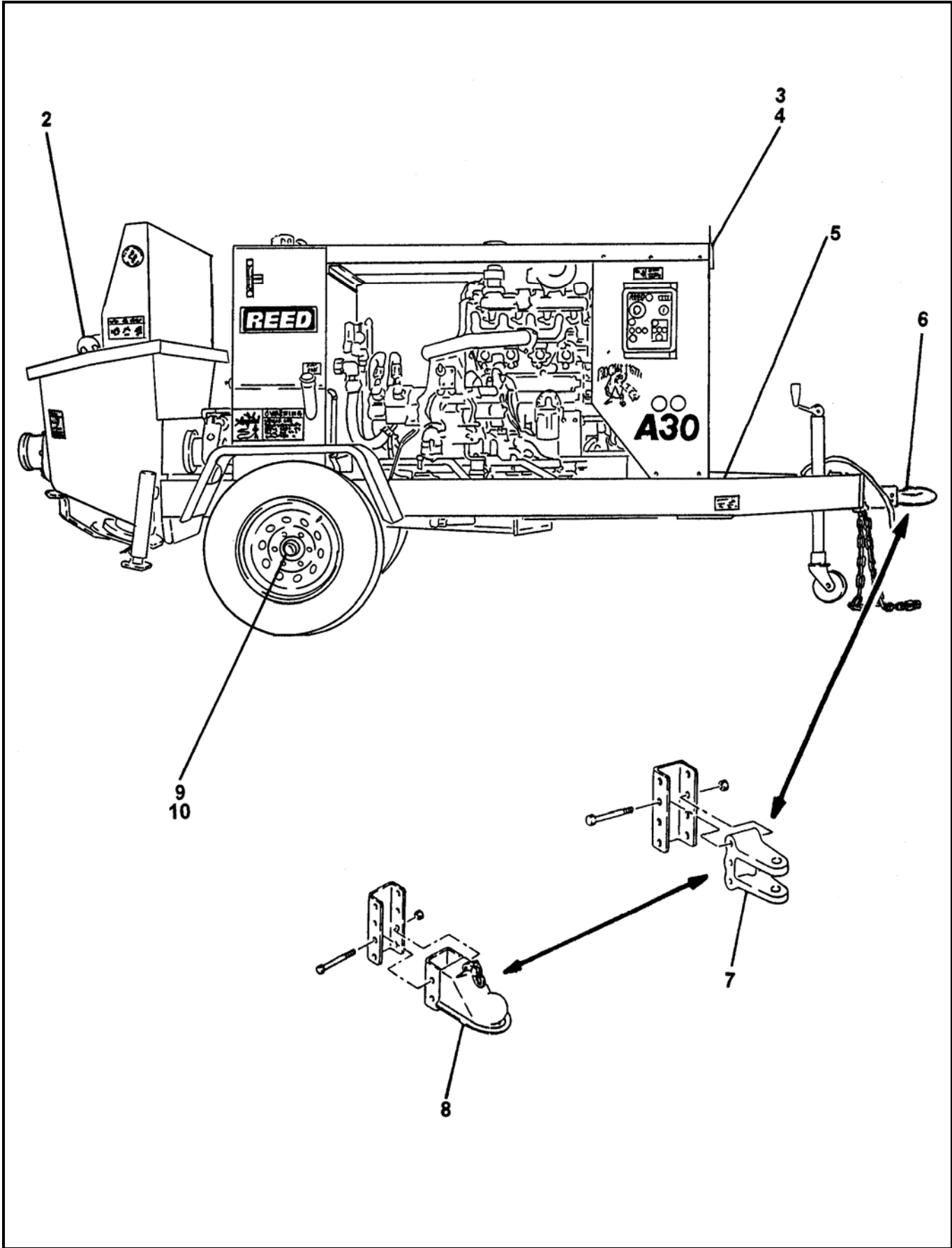






OPTIONAL INSTALLATION

A30HP  
PARTS  
GROUP 80  
FIGURE 01  
PAGE 01



REVISION:

ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	80-01	Installation, Optional (See Group 10, Figure 01 for NHA)	Ref
2	71429	• Assembly, Hopper Vibration (See Group 80, Figure 02 for DET)	1
3	BW10011	• Assembly, Radio Remote Control Transmitter (See Group 50, Figure 04 for REF)	1
4	BW10012	• Assembly, Radio Remote Control Receiver (See Group 50, Figure 04 for REF)	1
5	79020	• Assembly, Optional Tool Kit (See Group 80, Figure 03 for DET)	1
6	75413	• Assembly, Actuator Brake (See Group 80, Figure 04 for DET)	1
7	71050	• Assembly, Adjustable 1 Inch Clevis	1
8	71099	• Assembly, Adjustable Ball Coupler 2 – 5/16"	1
9	80-05	• Assembly, Non-Operator Side Hydraulic Brake (See Group 80, Figure 05 for DET)	1
10	80-06	• Assembly, Operator Side Hydraulic Brake (See Group 80, Figure 06 for DET)	1

DASH (-) ITEM NOT ILLUSTRATED

## HOPPER VIBRATOR ASSEMBLY

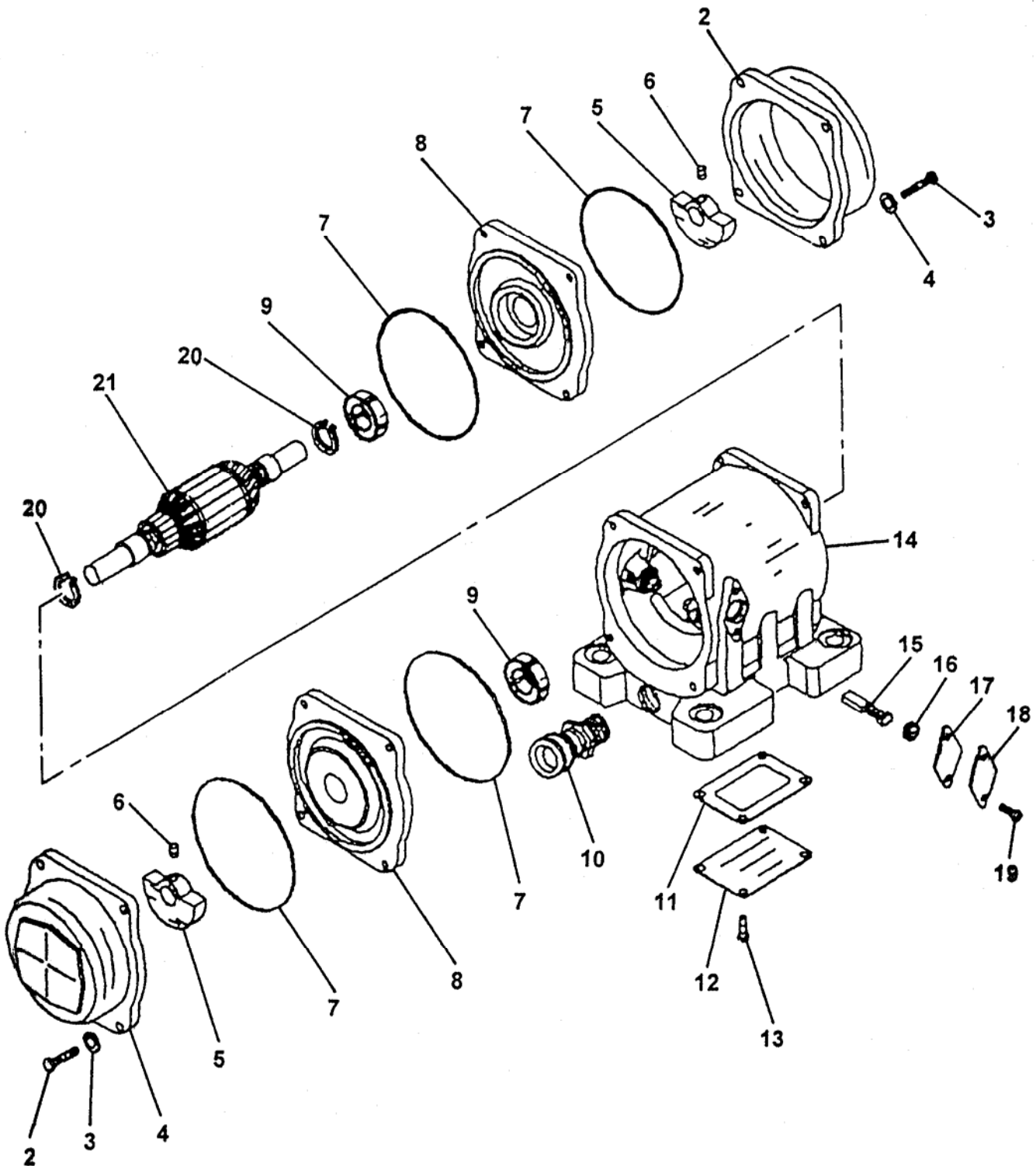
A30HP

PARTS

GROUP 80

FIGURE 02

PAGE 01



REVISION:

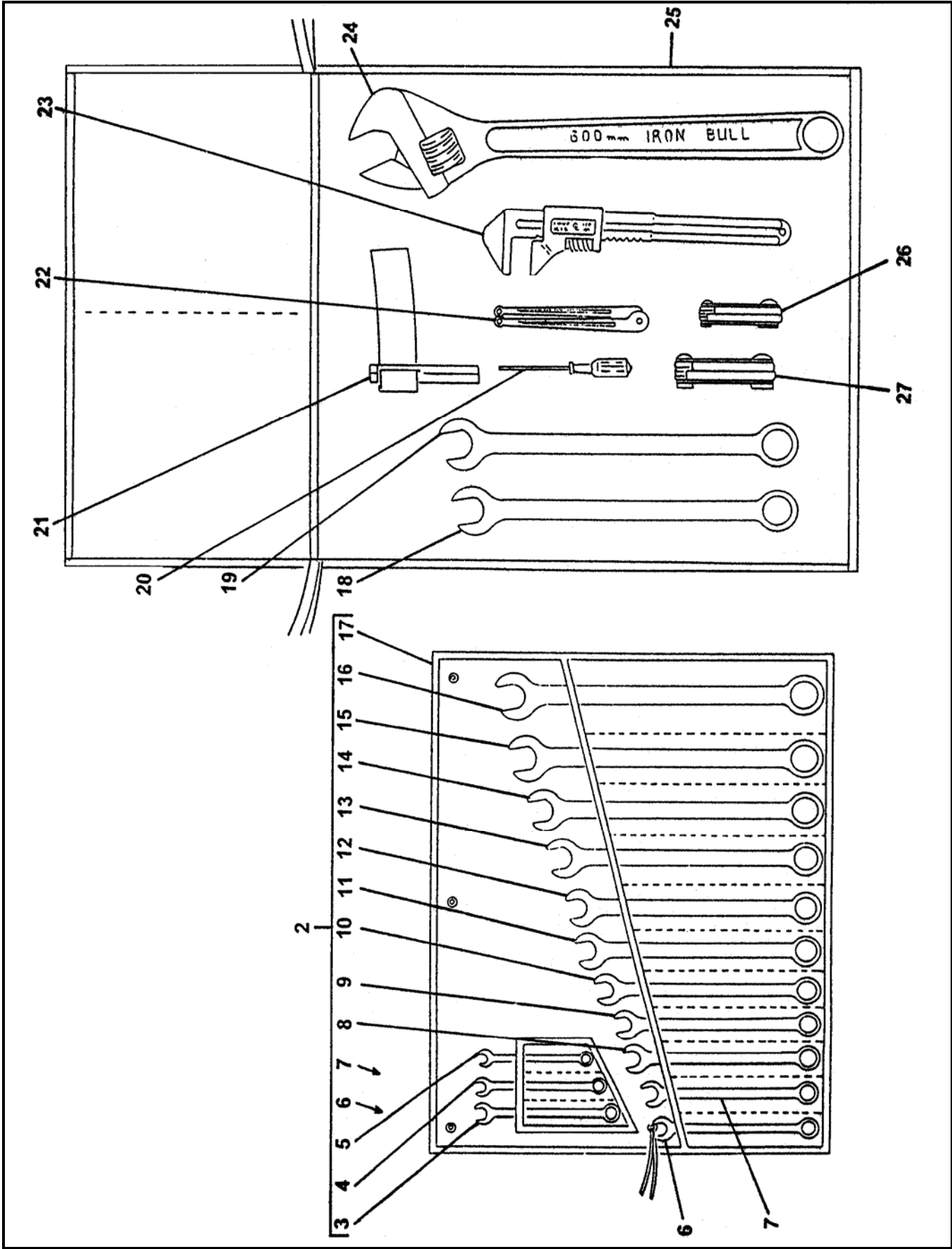
ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	71429	Assembly, Hopper Vibrator (See Group 80, Figure 01 for NHA)	Ref
2		• Cap, End	2
3		• Bolt (attaching parts)	8
4		• Washer, Lock (attaching parts)	8
5		• Weight	2
6		• Screw, Set (attaching parts)	2
7		• O-Ring	4
8		• Bell, End	2
9		• Bearing	2
10		• Holder, Cord	1
11		• Gasket	1
12		• Cover, Box	1
13		• Screw (attaching parts)	4
14		• Sub-Assembly, Housing	1
15		• Brush	1
16		• Cap, Brush	2
17		• Gasket	2
18		• Cover, Brush	2
19		• Screw (attaching parts)	4
20		• Ring, Snap	2
21		• Assembly, Armature	1

DASH (-) ITEM NOT ILLUSTRATED



OPTIONAL TOOL KIT ASSEMBLY

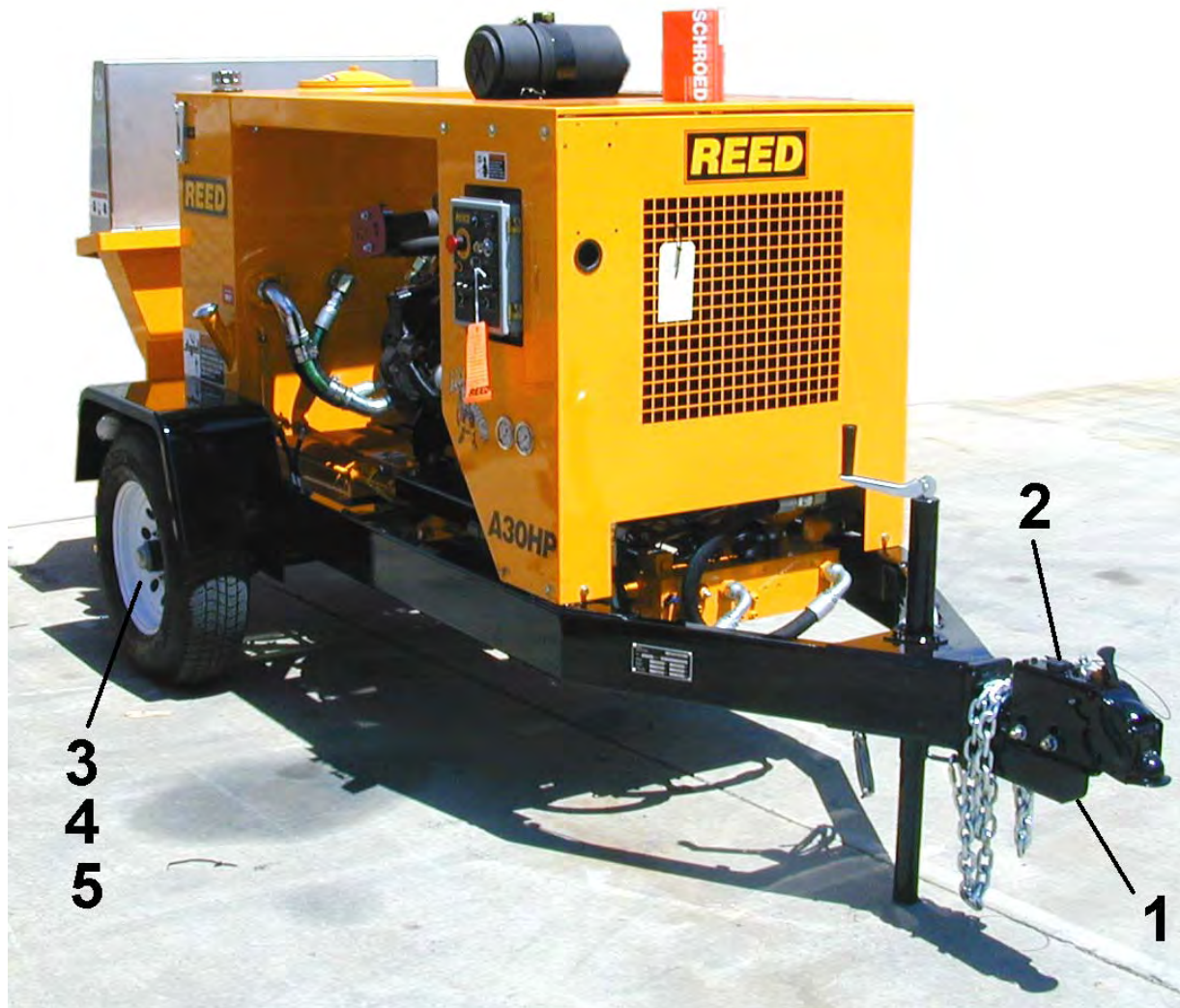
A30HP  
PARTS  
GROUP 80  
FIGURE 03  
PAGE 01



REVISION:

ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	79020	Assembly, Optional Tool Kit (See Group 80, Figure 01 for NHA)	Ref
2	79037	• Kit, Wrench	1
3		• • Wrench, 1/2 Inch	1
4		• • Wrench, 7/16 Inch	1
5		• • Wrench, 3/8 Inch	1
6		• • Wrench, 9/16 Inch	1
7		• • Wrench, 5/8 Inch	1
8		• • Wrench, 11/16 Inch	1
9		• • Wrench, 3/4 Inch	1
10		• • Wrench, 13/16 Inch	1
11		• • Wrench, 7/8 Inch	1
12		• • Wrench, 15/16 Inch	1
13		• • Wrench, 1 Inch	1
14		• • Wrench, 1-1/16 Inch	1
15		• • Wrench, 1-1/8 Inch	1
16		• • Wrench, 1-1/4 Inch	1
17		• • Wrap, Plastic	1
18	79036	• Wrench, 1-3/8 Inch	1
19	79028	• Wrench, 1-1/2 Inch	1
20	79038	• Screwdriver	1
21	79814	• Wrench, Strap (for Filter)	1
22	79325	• Wrench, Spanner	1
23	79031	• Wrench, Monkey	1
24	79032	• Wrench, Adjustable 24 Inch	1
25	77502	• Bag, Tool	1
26	79030	• Set, Metric Allen Key (2-8 mm)	1
27	79029	• Set, Standard Allen Key (3/16-3/8 Inch)	1

DASH (-) ITEM NOT ILLUSTRATED



ITEM NO.	REED 'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-	BW10312	Assembly, Surge Brake-Model A30HP	Ref
1	BW10310	• Frame, Modification-Surge Brakes	1
2	71025	• Actuator, Surge Brake	1
3	71052	• Hydraulic Brake Kit-12 x 2	1pr
4	87256	• Brake Line Kit	1
5	71030	• Torsion Spring-Brake Kit	2
		DASH (-) ITEM NOT ILLUSTRATED	

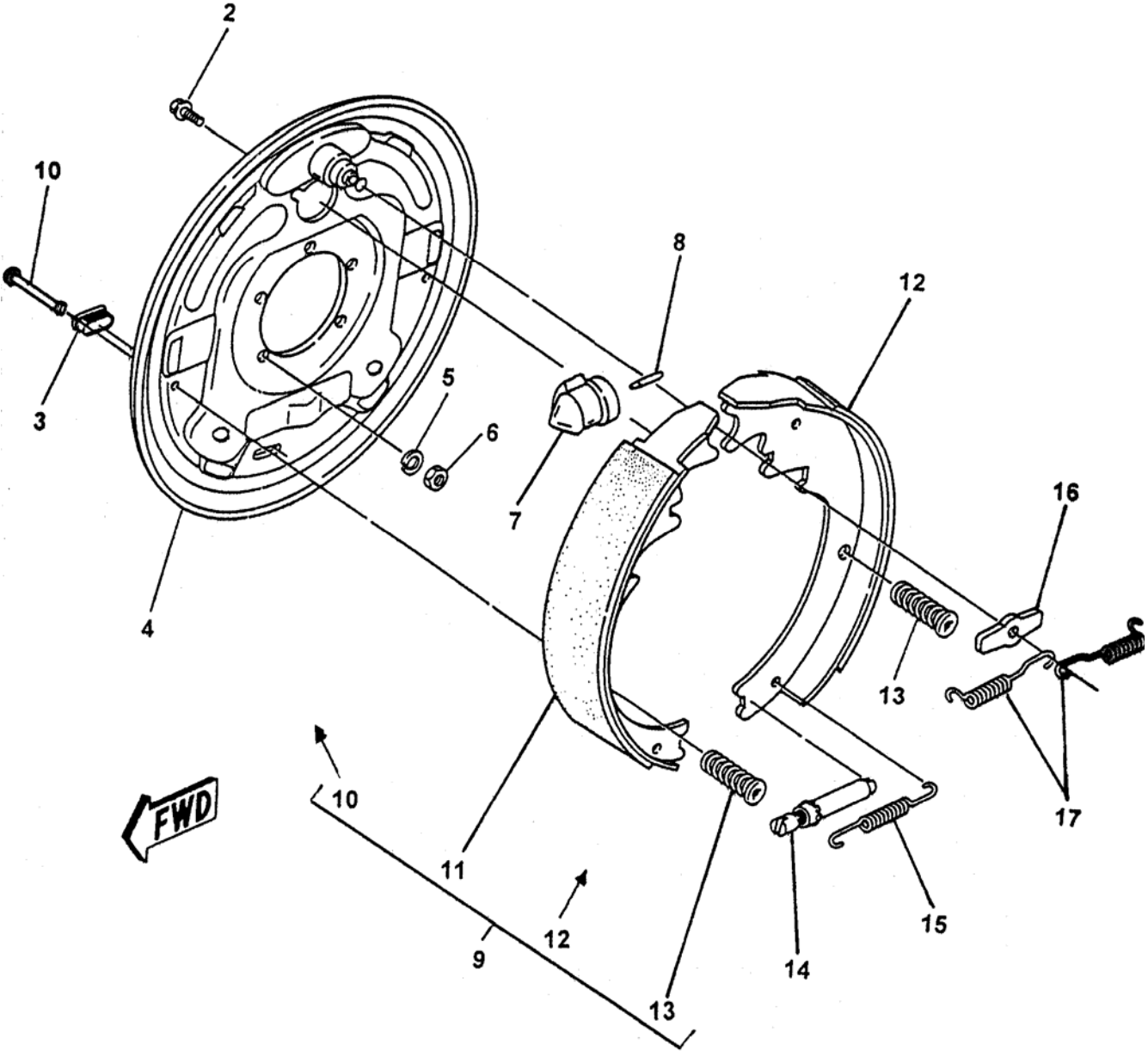






NON-OPERATOR SIDE  
HYDRAULIC BRAKE ASSEMBLY

A30HP  
PARTS  
GROUP 80  
FIGURE 05  
PAGE 01



REVISION:

**NON-OPERATOR SIDE  
HYDRAULIC BRAKE ASSEMBLY**

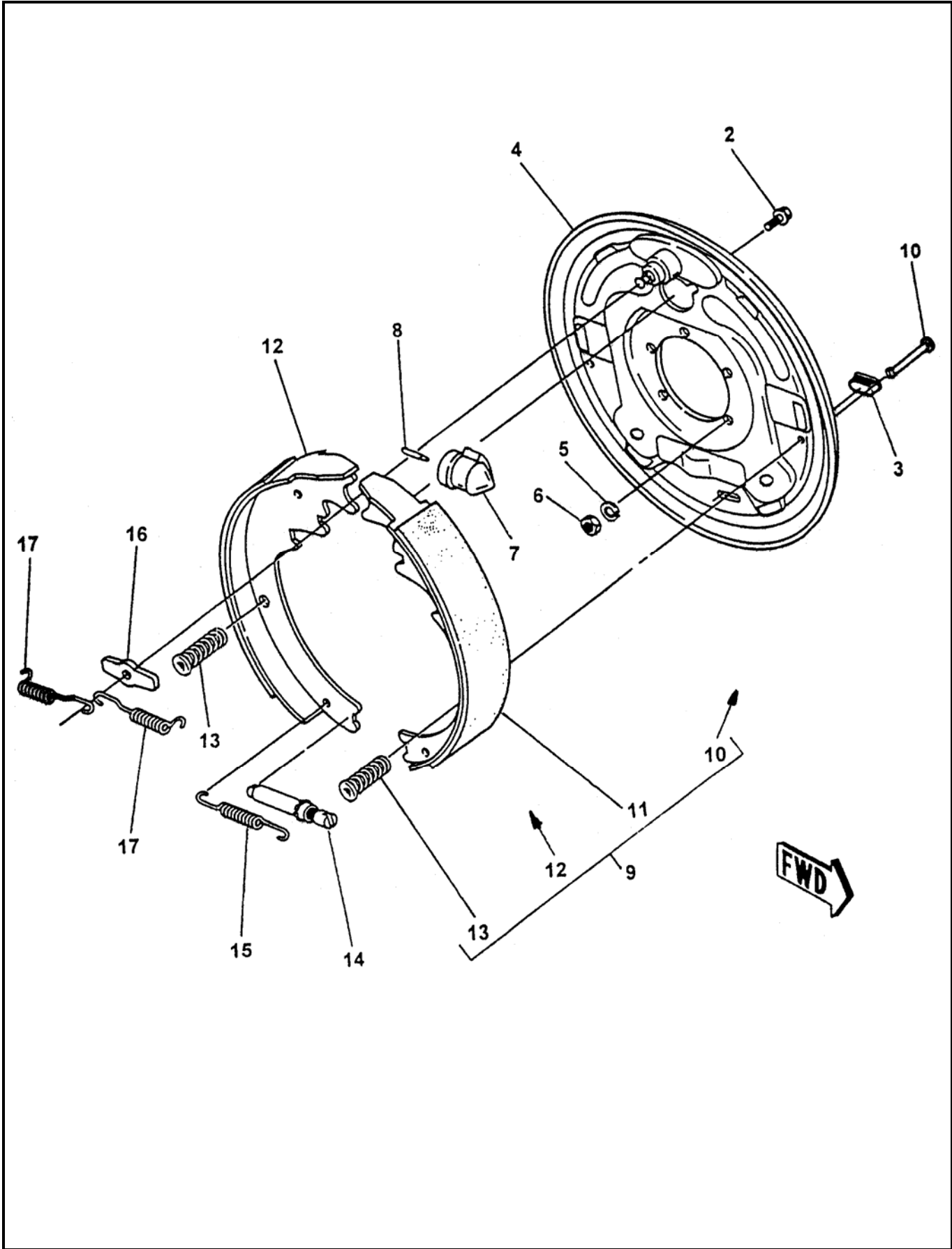
ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	80-05	Assembly, Non-Operator Side Hydraulic Brake (See Group 80, Figure 01 for NHA)	Ref
2		• Screw, with Washer	1
3		• Plug	2
4		• Plate, Backing	1
5		• Washer, Lock (attaching parts)	5
6		• Nut, Brake Mounting (attaching parts)	5
7		• Cylinder, Non-Operator Side Brake	1
8		• Rod, Push	1
9		• Kit, Non-Operator Side Shoe and Lining	1
10		• • Pin, Shoe Hold Down	2
11		• • Primary, Non-Operator Side	1
12		• • Secondary, Non-Operator Side	1
13		• • Pin, Shoe Hold Down	2
14		• Assembly, Adjuster	1
15		• Spring, Adjusting Screw	1
16		• Washer, Anchor Post	1
17		• Spring, Retractor	2

DASH (-) ITEM NOT ILLUSTRATED



OPERATOR SIDE  
HYDRAULIC BRAKE ASSEMBLY

A30HP  
PARTS  
GROUP 80  
FIGURE 06  
PAGE 01



REVISION:

**OPERATOR SIDE  
HYDRAULIC BRAKE ASSEMBLY**

ITEM NO.	REED 'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	80-06	Assembly, Operator Side Hydraulic Brake (See Group 80, Figure 01 for NHA)	Ref
2		• Screw, with Washer	1
3		• Plug	2
4		• Plate, Backing	1
5		• Washer, Lock (attaching parts)	5
6		• Nut, Brake Mounting (attaching parts)	5
7		• Cylinder, Operator Side Brake	1
8		• Rod, Push	1
9		• Kit, Operator Side Shoe and Lining	1
10		• • Pin, Shoe Hold Down	2
11		• • Primary, Operator Side	1
12		• • Secondary, Operator Side	1
13		• • Pin, Shoe Hold Down	2
14		• Assembly, Adjuster	1
15		• Spring, Adjusting Screw	1
16		• Washer, Anchor Post	1
17		• Spring, Retractor	2

DASH (-) ITEM NOT ILLUSTRATED