



TRAILER MOUNTED PUMP MODEL **B20** ILLUSTRATED PART MANUAL

B20
PARTS
GROUP 00
FIGURE 00
PAGE 01



**MODEL B20HP SHOWN:
STANDARD HOPPER WITH DUAL
SHIFT SWING CYLINDERS**

REED TRAILER MOUNTED CONCRETE PUMP MODEL **B20 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** STANDARD HOPPER WITH SINGLE SHIFT INSTALLATION
- FIGURE 02** STANDARD HOPPER WITH DUAL SHIFT INSTALLATION
- FIGURE 03** DECAL ASSEMBLY

GROUP 20 HOPPER INSTALLATION

- FIGURE 00** TABLE OF CONTENTS
- FIGURE 01** STANDARD HOPPER INSTALLATION
- FIGURE 02** REINFORCED HOPPER INSTALLATION
- FIGURE 03** HOPPER CLEAN OUT DOOR ASSEMBLY
- FIGURE 04** STANDARD/REINFORCED HOPPER AGITATOR ASSEMBLY
- FIGURE 05** STANDARD/REINFORCED HOPPER AGITATOR MOTOR ASSEMBLY
- FIGURE 06** 3 SPOOL CONTROL VALVE ASSEMBLY
- FIGURE 07** 3 SPOOL CONTROL VALVE SUBASSEMBLY



TRAILER MOUNTED PUMP MODEL *B20* ILLUSTRATED PART MANUAL

B20
PARTS
GROUP 00
FIGURE 00
PAGE 02

GROUP 30 TANK INSTALLATION

FIGURE	00	TABLE OF CONTENTS
FIGURE	01	TANK INSTALLATION
FIGURE	02	HYDRAULIC TANK ASSEMBLY
FIGURE	03	SWING TUBE CIRCUIT MANIFOLD ASSEMBLY
FIGURE	04	SWING TUBE CIRCUIT MAIN SOLENOID VALVE ASSEMBLY
FIGURE	05	SWING TUBE CIRCUIT PILOT SOLENOID VALVE ASSEMBLY
FIGURE	06	BALL VALVE ASSEMBLY
FIGURE	07	DRIVE CYLINDER CIRCUIT MANIFOLD ASSEMBLY
FIGURE	08	DRIVE CYLINDER CIRCUIT MAIN SOLENOID VALVE ASSEMBLY
FIGURE	09	DRIVE CYLINDER CIRCUIT PILOT SOLENOID VALVE ASSEMBLY
FIGURE	10	ACCUMULATOR ASSEMBLY
FIGURE	11	ACCUMULATOR BLADDER REPAIR KIT

GROUP 40 POWER TRAIN INSTALLATION

FIGURE	00	TABLE OF CONTENTS
FIGURE	01	POWER TRAIN INSTALLATION
FIGURE	02	HYDRAULIC PUMPS ASSEMBLY
FIGURE	03	DOUBLE AUXILIARY PUMP ASSEMBLY
FIGURE	04	MAIN PUMP ASSEMBLY
FIGURE	05	BATTERY MOUNTING ASSEMBLY

GROUP 50 CONTROLS INSTALLATION

FIGURE	00	TABLE OF CONTENTS
FIGURE	01	CONTROLS INSTALLATION
FIGURE	02	CONTROL BOX ASSEMBLY
FIGURE	03	50 FEET CABLE REMOTE CONTROL ASSEMBLY
FIGURE	04	100 FEET CABLE REMOTE CONTROL ASSEMBLY
FIGURE	05	RADIO REMOTE CONTROL TRANSMITTER



TRAILER MOUNTED PUMP MODEL B20 ILLUSTRATED PART MANUAL

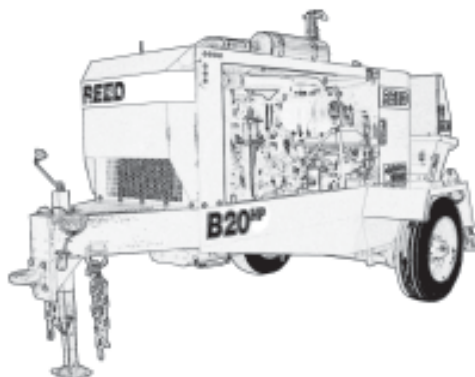
B20
PARTS
GROUP 00
FIGURE 00
PAGE 03

GROUP 70 FRAME INSTALLATION

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

GROUP 80 OPTIONAL INSTALLATION

FIGURE	00	TABLE OF CONTENTS
FIGURE	01	OPTIONAL INSTALLATION
FIGURE	02	LUBE SYSTEM ASSEMBLY
FIGURE	03	12 VOLT LUBE PUMP ASSEMBLY
FIGURE	04	HOPPER VIBRATOR ASSEMBLY
FIGURE	05	CHROME WHEELS-OPTIONAL
FIGURE	06	ACCUMULATOR CHARGE KIT
FIGURE	07	OPTIONAL TOOL KIT ASSEMBLY
FIGURE	08	ACTUATOR BRAKES ASSEMBLY
FIGURE	09	WATER PUMP INSTALLATION
FIGURE	10	WATER PUMP CONTROL VALVE ASSEMBLY
FIGURE	11	WATER PUMP MOTOR ASSEMBLY
FIGURE	12	WATER PUMP ASSEMBLY
FIGURE	13	NON-OPERATOR SIDE HYDRAULIC BRAKE ASSEMBLY
FIGURE	14	OPERATOR SIDE HYDRAULIC BRAKE ASSEMBLY
FIGURE	15	HYDRAULIC OUTRIGGER CYLINDER ASSEMBLY
FIGURE	16	1 SPOOL CONTROL VALVE ASSEMBLY
FIGURE	17	1 SPOOL CONTROL VALVE SUBASSEMBLY
FIGURE	18	2 SPOOL CONTROL VALVE ASSEMBLY
FIGURE	19	2 SPOOL CONTROL VALVE SUBASSEMBLY
FIGURE	20	SIDE DOOR ASSEMBLY



REVISION:



TRAILER MOUNTED PUMP MODEL **B20** HOW TO USE PART MANUAL

B20
PARTS
GROUP 00
FIGURE 01
PAGE 01

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 **B20**. 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 consent of this document, arrangement and breakdown sequence of items is compatible with Military Standards (**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 B20 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. **PART NUMBERS** that carry a **REED** part number.



TRAILER MOUNTED PUMP MODEL B20 HOW TO USE PART MANUAL

B20
PARTS
GROUP 00
FIGURE 01
PAGE 02



SINGLE SHIFT SWING VALVE ASSEMBLY

B20
PARTS
GROUP 60
FIGURE 03
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
-1	60-03	Assembly, Single Shift Swing Valve (See Group 60, Figure 01 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	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	86319	• Assembly, Swing Tube Single Shift Group	1
38		• • Bolt, Hex	1
39		• • Washer, Flat	1
40		• • Washer, Lock	1
41	85131	• • Crank, 3 Inch Single Splined Bell	1

Continued On Next Pzge

REVISION:

REVISION:



TRAILER MOUNTED PUMP MODEL *B20* HOW TO USE PART MANUAL

B20
PARTS
GROUP 00
FIGURE 01
PAGE 03

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**
- **Subassembly**
- **Attaching parts for subassembly**
 - **Detail part of subassembly**
 - **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 item that is listed previously in the Next Higher Assembly (**NHA**) and then again in this figure.

B. As Required (**A/R**) indicates the part and required 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.



TRAILER MOUNTED PUMP MODEL B20 HOW TO ORDER PARTS

B20
PARTS
GROUP 00
FIGURE 02
PAGE 01

1. Always give serial number and model of **REED** trailer mounted concrete pump Model **B20**. (Refer to each unit name plate shown below). NOTE: This manual is being released to cover unit starting with serial number **3-08-1-2781** to current production. Some components used on earlier units differ from current productions. Where this occurs, the part is identified by a serial number.
2. Always specify part number and complete name of parts ordered.
 - A. Turn to table of contents 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.

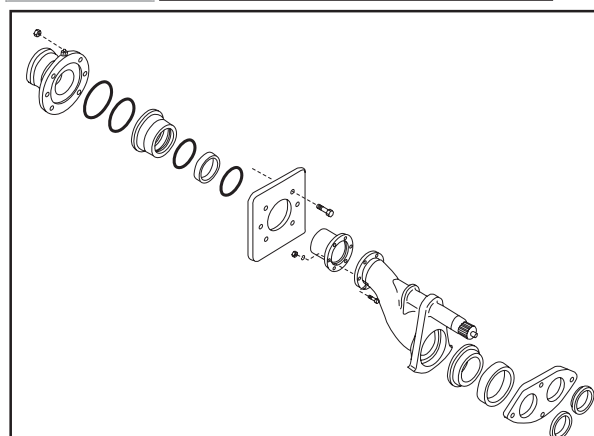
REED NAME PLATE

REED 1382 DAVIS AVE. #100 CHERO, GA 31710 USA		PHONE (904) 287-2100 FAX (904) 287-2140	
MODEL		SERIAL NO.	
MATERIAL PRESSURE		PSI	
HYDRAULIC PRESSURE		PSI	
ENGINE / PTO ELECTRIC MOTOR		RPM	
VEHICLE WEIGHT (APPROX.)		LB	



TRAILER MOUNTED PUMP 01 MODEL B50 GROUP 60 PUMPING TRAIN INSTALLATION

01 B50
PARTS
GROUP 60
FIGURE 00
PAGE 01



REED TRAILER MOUNTED CONCRETE PUMP 01 MODEL B50 ILLUSTRATED PARTS MANUAL GROUP 60 PUMPING TRAIN INSTALLATION CONTAINS THE FOLLOWING FIGURES:

- FIGURE 00 TABLE OF CONTENTS
- FIGURE 01 SINGLE SHIFT PUMPING TRAIN INSTALLATION
- FIGURE 02 DUAL SHIFT PUMPING TRAIN INSTALLATION
- FIGURE 03 SINGLE SHIFT SWING VALVE ASSEMBLY
- FIGURE 04 DUAL SHIFT SWING VALVE ASSEMBLY
- FIGURE 05 SINGLE SHIFT SWING RAM CYLINDER SUBASSEMBLY
- FIGURE 06 DUAL SHIFT SWING RAM CYLINDER SUBASSEMBLY
- FIGURE 07 MATERIAL CYLINDER ASSEMBLY
- FIGURE 08 FLUSHBOX ASSEMBLY
- FIGURE 09 HYDRAULIC DRIVE CYLINDER ASSEMBLY
- FIGURE 10 HYDRAULIC DRIVE CYLINDER SUBASSEMBLIES

REVISION:

REVISION:

REED

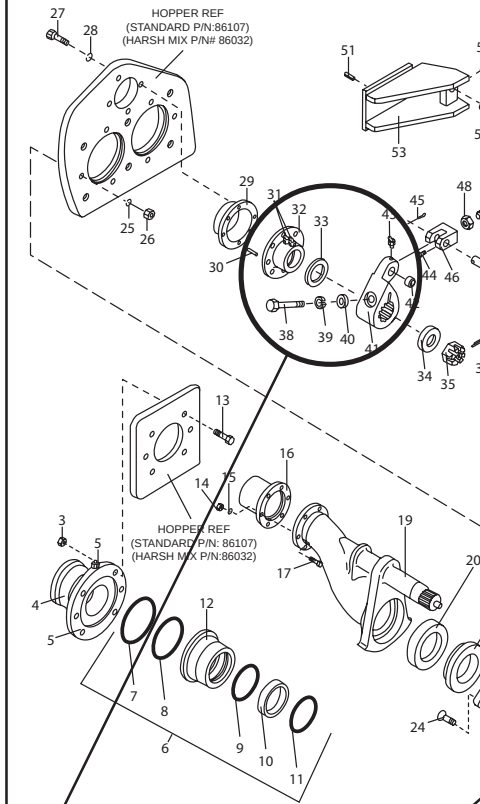
SINGLE SHIFT SWING VALVE ASSEMBLY

B20
PARTS
GROUP 60
FIGURE 03
PAGE 01

C

E

C



REVISION:

D

E

REED

DUAL SHIFT SWING VALVE ASSEMBLY

B20
PARTS
GROUP 60
FIGURE 04
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
-1	60-04	Assembly, Single 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	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	86188	• Bearing, 6 Inch Splined Flange	1
33	85294	• Washer, Thrust	1
34	86184	• 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:

- 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 in this 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.

REVISION:



TRAILER MOUNTED PUMP MODEL *B20* HOW TO ORDER PARTS

B20
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 FedEx and DHL are available in designated areas.

5. TO ORDER

A. BY MAIL

Attention: Parts Department
REED
13822 Oaks Avenue
Chino, CA. 91710

B. BY FAX

(909) 287 - 2141

C. BY PHONE

(909) 287 - 2100

6. Part 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. A Parts Return Authorization form is provided when **REED** deems it 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



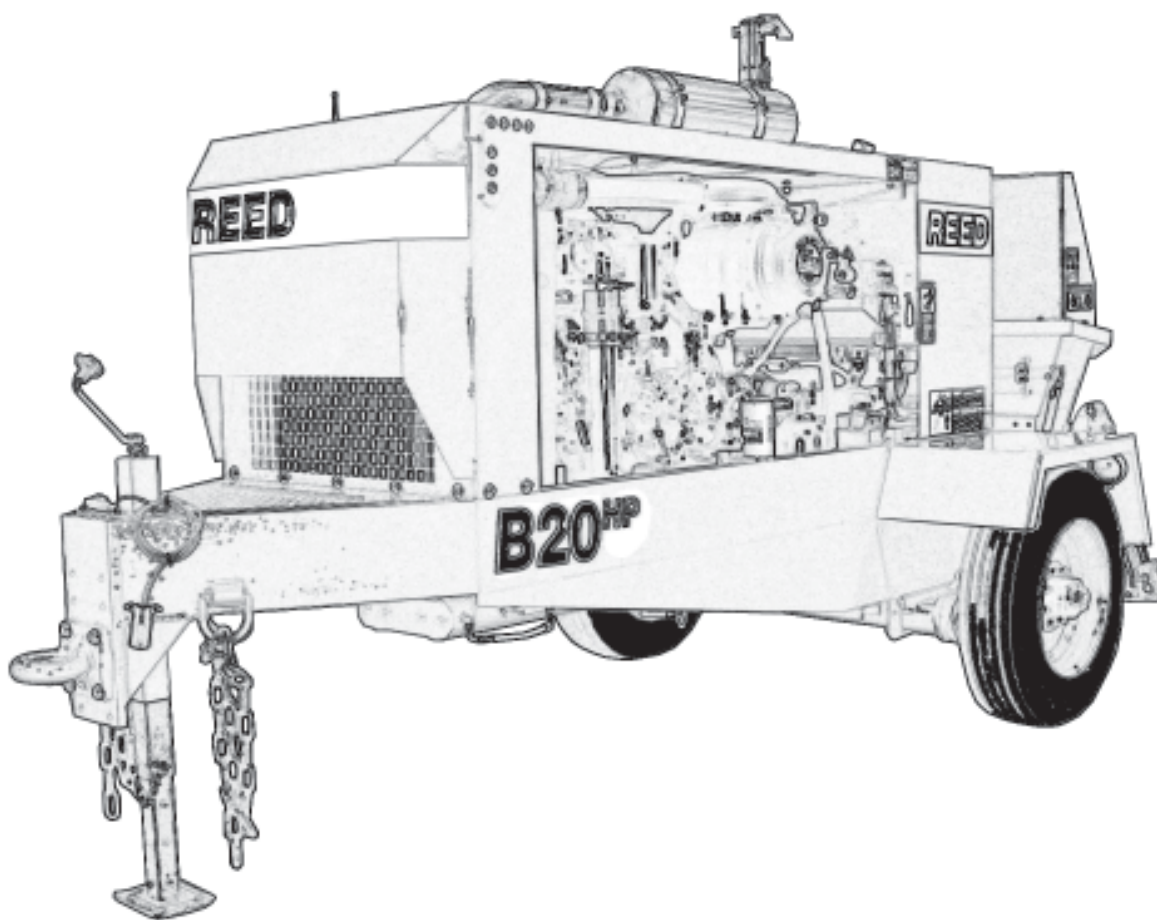


TRAILER MOUNTED PUMP MODEL *B20* GROUP 10 FINAL INSTALLATION

B20
PARTS
GROUP 10
FIGURE 00
PAGE 01

REED TRAILER MOUNTED CONCRETE PUMP MODEL *B20* ILLUSTRATED PARTS
MANUAL GROUP 10 FINAL INSTALLATION CONTAINS THE FOLLOWING FIGURES:

- FIGURE 00** TABLE OF CONTENTS
- FIGURE 01** STANDARD HOPPER WITH SINGLE SHIFT INSTALLATION
- FIGURE 02** STANDARD HOPPER WITH DUAL SHIFT INSTALLATION
- FIGURE 03** DECAL ASSEMBLY

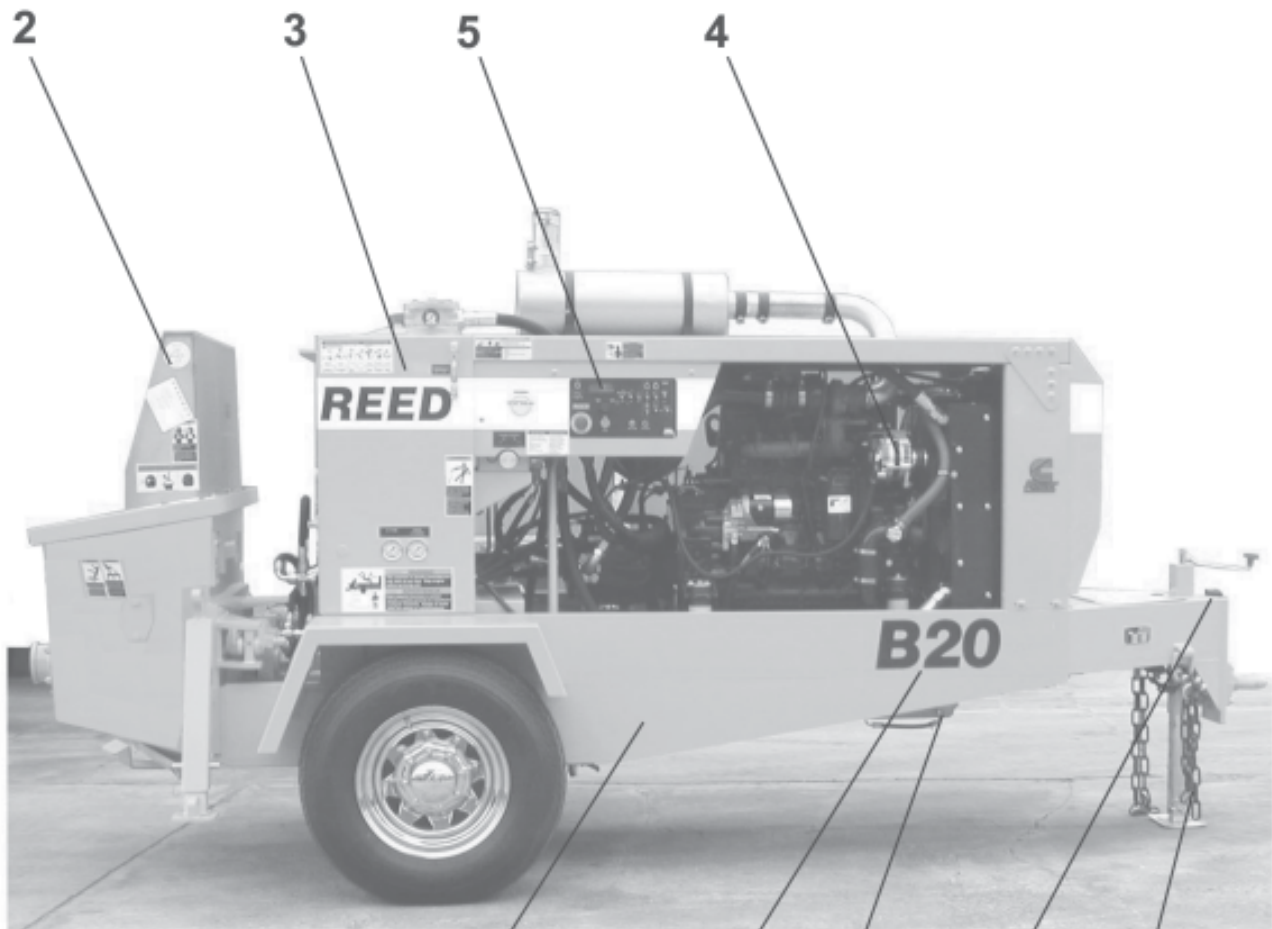


REVISION:



STANDARD HOPPER WITH SINGLE SHIFT FINAL INSTALLATION

B20
PARTS
GROUP 10
FIGURE 01
PAGE 01



SINGLE SHIFT STANDARD HOPPER SHOWN

REVISION:



STANDARD HOPPER WITH SINGLE SHIFT FINAL INSTALLATION

B20
PARTS
GROUP 10
FIGURE 01
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	B20A-V04	Installation, B20 Standard Hopper with Single Shift Final	Ref
2	20-01	• Installation, Standard/Reforced 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	60-02	• Installation, Dual Shift Pumping Train (See Group 60, Figure 02 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	10-05	• Kit, B20 Decal (See Group 10, Figure 05 for DET)	1

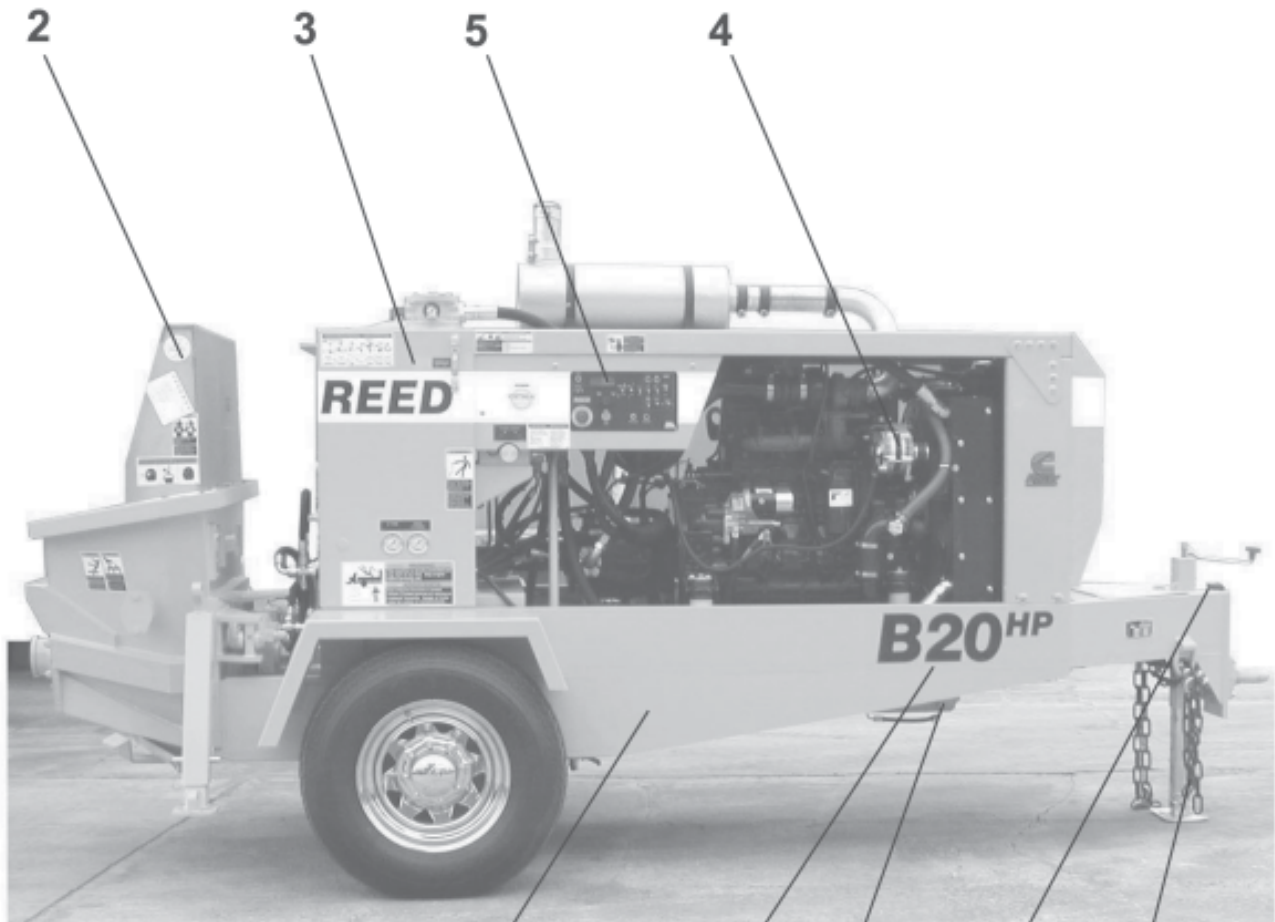
DASH (-) ITEM NOT ILLUSTRATED

REVISION:



REINFORCED HOPPER WITH DUAL SHIFT FINAL INSTALLATION

B20
PARTS
GROUP 10
FIGURE 02
PAGE 01



2 3 5 4
7/8 12 6 9 10/11
DUAL SHIFT REINFORCED HOPPER SHOWN



REINFORCED HOPPER WITH DUAL SHIFT FINAL INSTALLATION

B20
PARTS
GROUP 10
FIGURE 02
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
-1	B20HPC-V03	1 2 3 4 5 Installation, B20 Reinforced Hopper with Dual Shift Final	Ref
2	20-01	• Installation, Standard/Reforced 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	60-02	• Installation, Dual Shift Pumping Train (See Group 60, Figure 02 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	10-05	• Kit, B20 Decal (See Group 10, Figure 05 for DET)	1

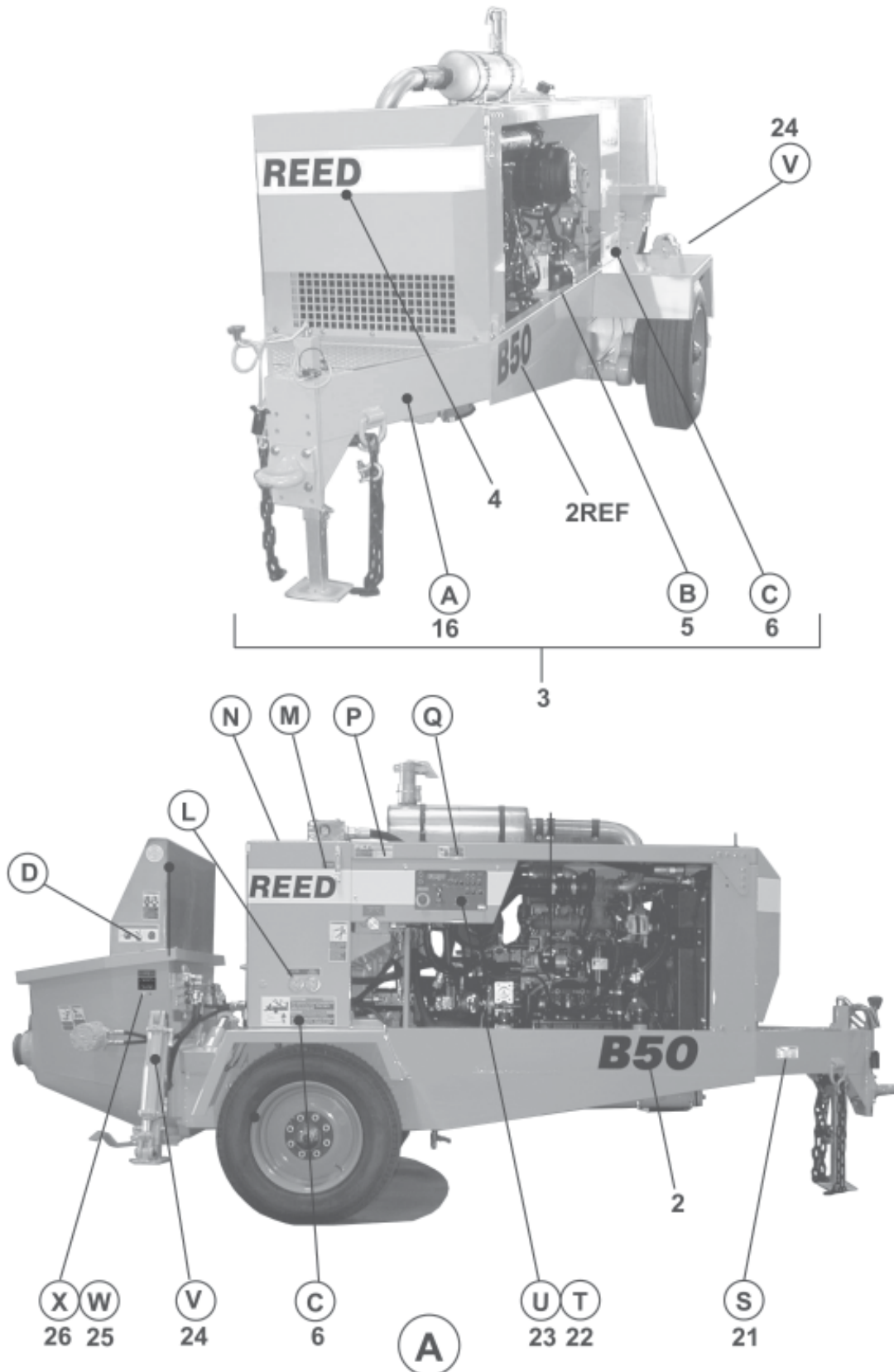
DASH (-) ITEM NOT ILLUSTRATED

REVISION:



DECAL ASSEMBLY

B20
PARTS
GROUP 10
FIGURE 03
PAGE 01

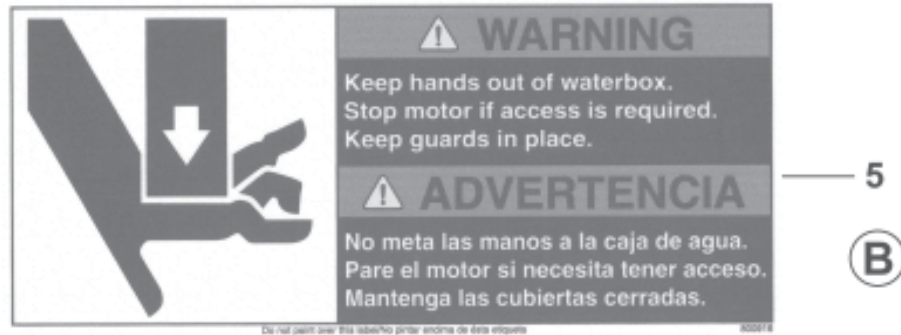


REVISION:



DECAL ASSEMBLY

B20
PARTS
GROUP 10
FIGURE 03
PAGE 02



ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	10-02	Kit, B20 Decal (See Group 10, Figure 01 for NHA)	Ref
2	85447	• Decal, B20 6 Inch Black	2
2	87063	• Decal, B20HP 6 Inch Black	2
3	85425	• Kit, B-Series Decal	1
4	85418	• • Decal, REED 4 1/2 Inch Black and White 48 Inch	2
5	800916	• • Decal, Warning, Keep Hand Out of Water Box	1
6	800924	• • Decal, Warning, This Machine is Remote Controlled and	2
7	85416	• • Decal, REED 4 1/2 Inch Black and White 20 Inch	1
8	800922	• • Decal, Warning, Before Opening a Blocked Pipeline,	1
9	800921	• • Decal, Warning, Do Not Operate at Pressures Exceeding	1
10	73132	• • Decal, REED 4 1/2 Inch	1
11	800929A	• • Decal, Warning	2
12	800917	• • Decal, Warning, Keep Hand Out of Hopper and Valve	2
13	800918	• • Decal, Warning, Do Not Stand on Hopper Grate	2
14	85684	• • Decal, B-Series Gauges	1
15	75020	• • Decal, Hydraulic Oil	1
16	800931	• • Decal, ACPA Member	1
17	85413	• • Decal, Volume Control	1
18	800926	• • Decal, Warning, Do Not Operate This Machine without	1
19	75017	• • Decal, Diesel Fuel Only	1
20	75009	• • Nameplate, REED , Serial No.	1
21	85332	• Decal, Control Box Panel	1
22	85410	• Decal, Remote Control	1
23	800919	• Decal, Optional, Warning, Stand Clear Outriggers When	2
24	85845	• Decal, Outriggers	1
25	85846	• Decal, Agitator	1

REVISION:



⚠ WARNING

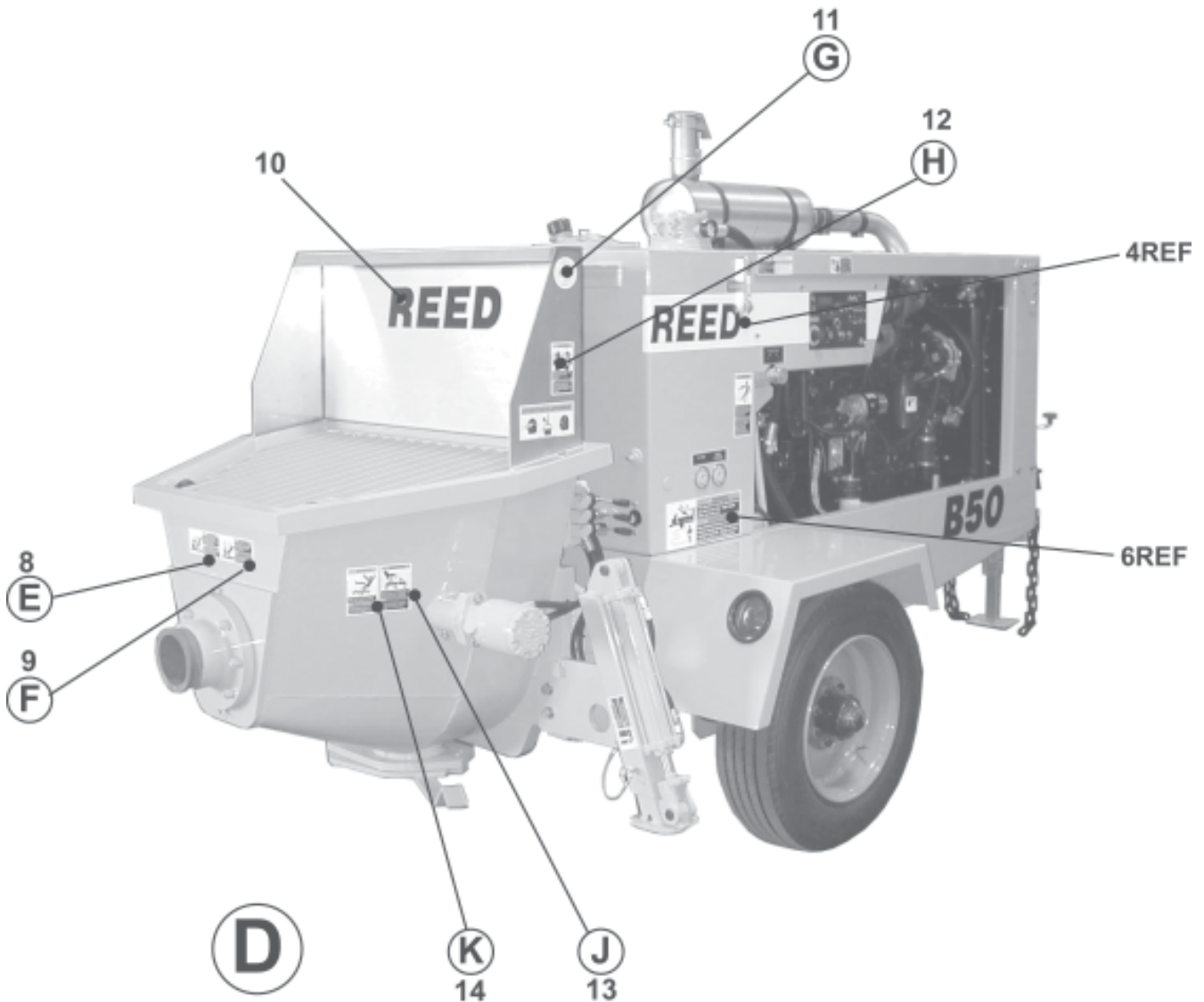
This machine is remote controlled and may start at any time. Stop engine before servicing unit.

⚠ ADVERTENCIA

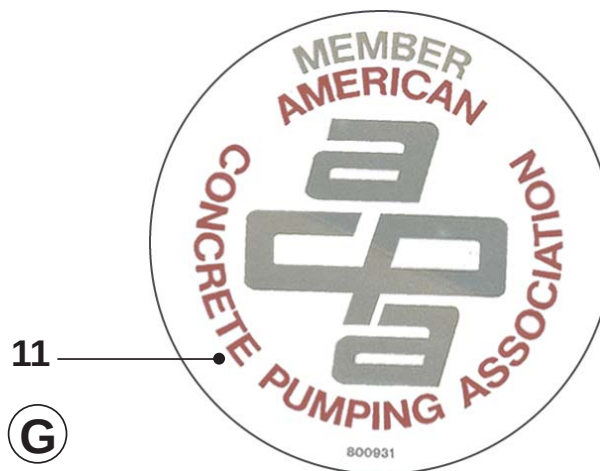
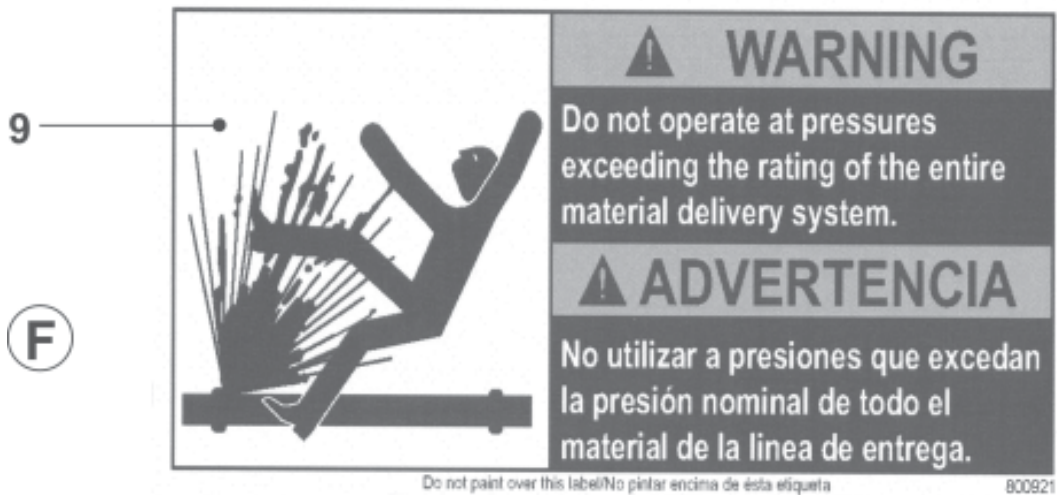
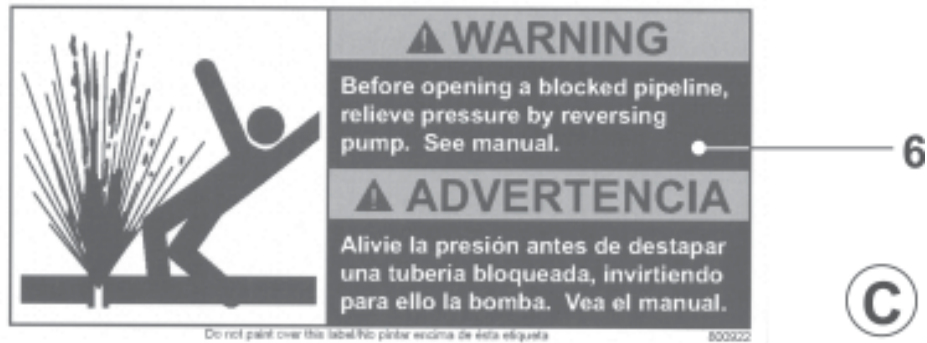
Esta máquina funciona a control remoto y puede ponerse en marcha en cualquier momento. Apagar el motor antes de realizar el mantenimiento.

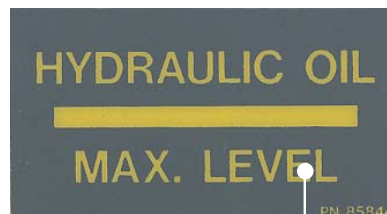
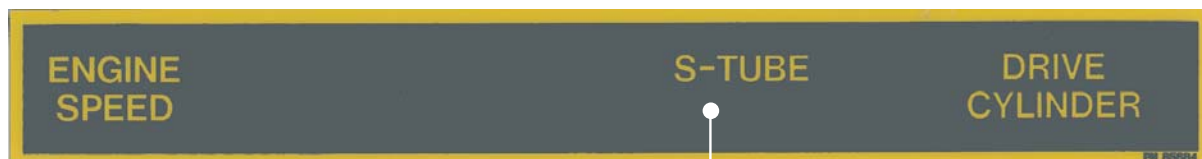
6

C



SHOWN MODEL B50 WITH
STANDARD HOPPER UNIT







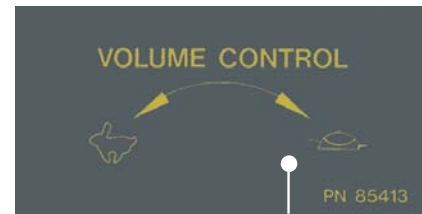
DECAL ASSEMBLY

B20
PARTS
GROUP 10
FIGURE 03
PAGE 06

HYDRAULIC OIL

N

17



P

18



Q

19

**DIESEL FUEL
ONLY**

R

20

REED 13822 OAKS AVENUE CHINO, CA 91710 USA		PHONE (909)287-2100 FAX (909)287-2148	
MODEL		SERIAL NO.	
MATERIAL PRESSURE		PSI	BAR
HYDRAULIC PRESSURE		PSI	BAR
ENGINE / PTO ELECTRIC MOTOR		RPM	VOLTS
VEHICLE WEIGHT (APPROX.)		LBS	KG

S

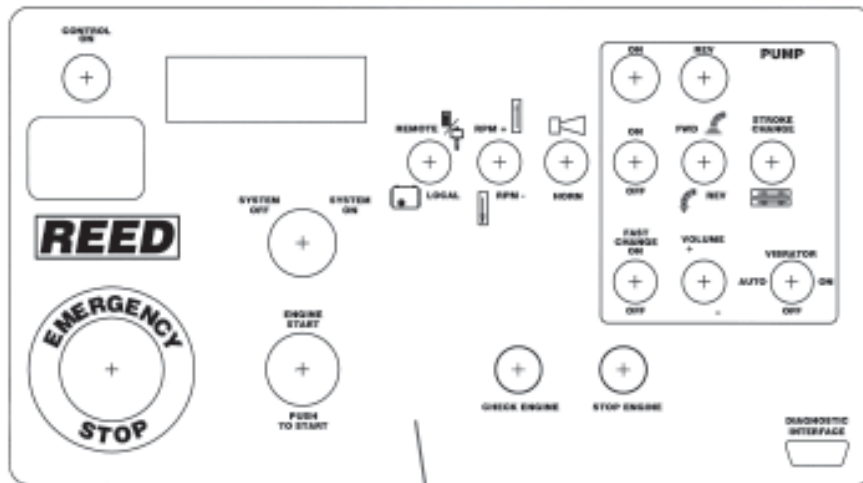
21

REVISION:

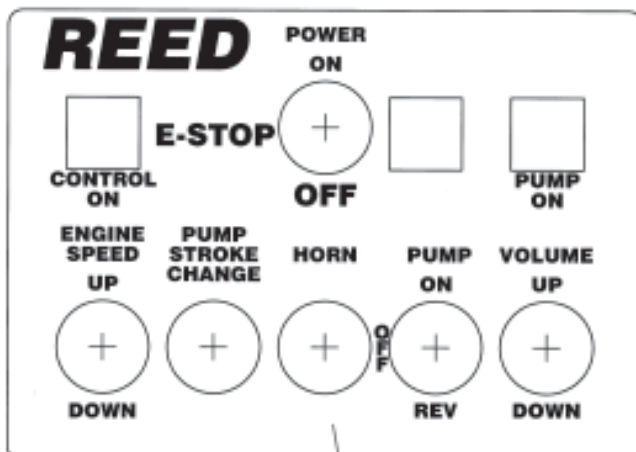


DECAL ASSEMBLY

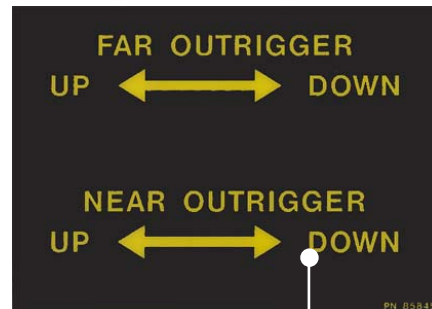
B20
PARTS
GROUP 10
FIGURE 03
PAGE 07



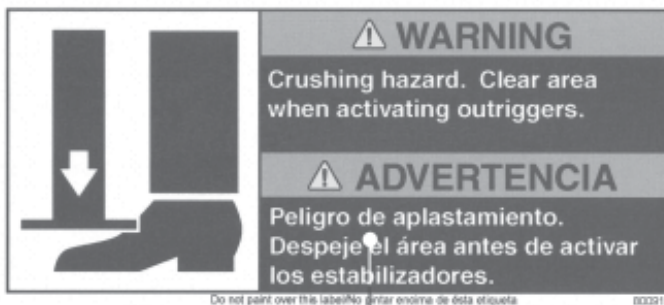
(T) 22



(U) 23



(W) 25



Do not paint over this label! Pintar encima de esta etiqueta.

000219

(V) 24



PN 85846

(X) 26



Do not touch hydraulic oil leaks. Get immediate medical attention if oil penetrates skin.

ADVERTENCIA

No toque las fugas de aceite hidráulico. Obtenga atención médica inmediata si el aceite penetra en la piel.

IMPORTANT	IMPORTANTE
You can order additional operation manuals, spare parts books, safety manuals and decal sets by contacting us at: REED Manufacturing 1-(888)-779-7333 7:00 AM to 5:00 PM Pacific Time Monday through Friday	Usted puede solicitar manuales de operación, catálogos de refacciones, manuales de seguridad y juegos de calcomanías adicionales contactando a: REED Manufacturing 1-(888)-779-7333 DE 7:00 AM a 5:00 PM Hora Central

Do not paint over this label. No pintar encima de esta etiqueta.

803224



Cement dust is toxic. Use lung protection when exposed.

ADVERTENCIA

El polvo de cemento es tóxico. Use protección para los pulmones cuando se exponga.

INSTRUCCIONES DE SEGURIDAD SAFETY INSTRUCTIONS						
Recommended hand signals Señales de mano recomendadas						
1. START PUMP SPEED UP	2. SLOW PUMP DOWN	3. STOP PUMP	4. LITTLE BIT	5. RELIEVE PRESSURE	6. ADD WATER 4-GALLONS	7. ALL DONE CLEAN UP
1. PRENDER LA BOMBA ACCELERAR	2. BAJAR VELOCIDAD A LA BOMBA	3. PARAR LA BOMBA	4. UN POCO	5. ALIVIA LA PRESIÓN	6. AÑADIR AGUA 4-GALONES	7. TERMINADO LIMPIAR

Do not paint over this label. No pintar encima de esta etiqueta.

803225

WARNING			SAFETY INSTRUCTIONS	
			1. Relieve system pressure before opening any system or coupling. 2. Regularly inspect system condition and wall thickness. 3. Wear reduces system burst pressure. 4. Use recommended clean out procedures - consult manufacturers. 5. Use retaining pins in delivery system snap couplings.	
• May cause or prevent concrete placing system. • Wear eye protection. • Do not operate at pressures exceeding the rating of any piece of the external delivery system.			INSTRUCCIONES DE SEGURIDAD 1. Aliviar la presión del sistema antes de abrir un sistema o un acoplamiento. 2. Inspeccionar periódicamente el estado del sistema y el espesor de las paredes. 3. El desgasante reduce la presión de rotura por estallido. 4. Use los procedimientos de limpieza recomendados, consulte con el fabricante. 5. Use los pasadores de retención en los acoplamientos de fijación a presión.	
ADVERTENCIA • Permanezca alejado del sistema de distribución de concreto presurizado. • Use protección para los ojos. • No opere a presiones mayores que las de la capacidad de cualquier pieza del sistema de descarga.				

803226



TRAILER MOUNTED PUMP MODEL *B20*
GROUP 10 FINAL INSTALLATION

THIS PAGE INTENTIONALLY LEFT BLANK



TRAILER MOUNTED PUMP MODEL *B20* GROUP 20 HOPPER INSTALLATION

B20
PARTS
GROUP 20
FIGURE 00
PAGE 01

**REED TRAILER MOUNTED CONCRETE PUMP MODEL *B20* ILLUSTRATED PARTS
MANUAL GROUP 20 HOPPER INSTALLATION** CONTAINS THE FOLLOWING FIGURES:

- FIGURE 00** TABLE OF CONTENTS
- FIGURE 01** STANDARD HOPPER INSTALLATION
- FIGURE 02** REINFORCED HOPPER INSTALLATION
- FIGURE 03** HOPPER CLEAN OUT DOOR ASSEMBLY
- FIGURE 04** STANDARD/REINFORCED HOPPER AGITATOR ASSEMBLY
- FIGURE 05** STD HOPPER/REINFORCED AGITATOR MOTOR ASSEMBLY
- FIGURE 06** 3 SPOOL CONTROL VALVE ASSEMBLY
- FIGURE 07** 3 SPOOL CONTROL VALVE SUBASSEMBLY

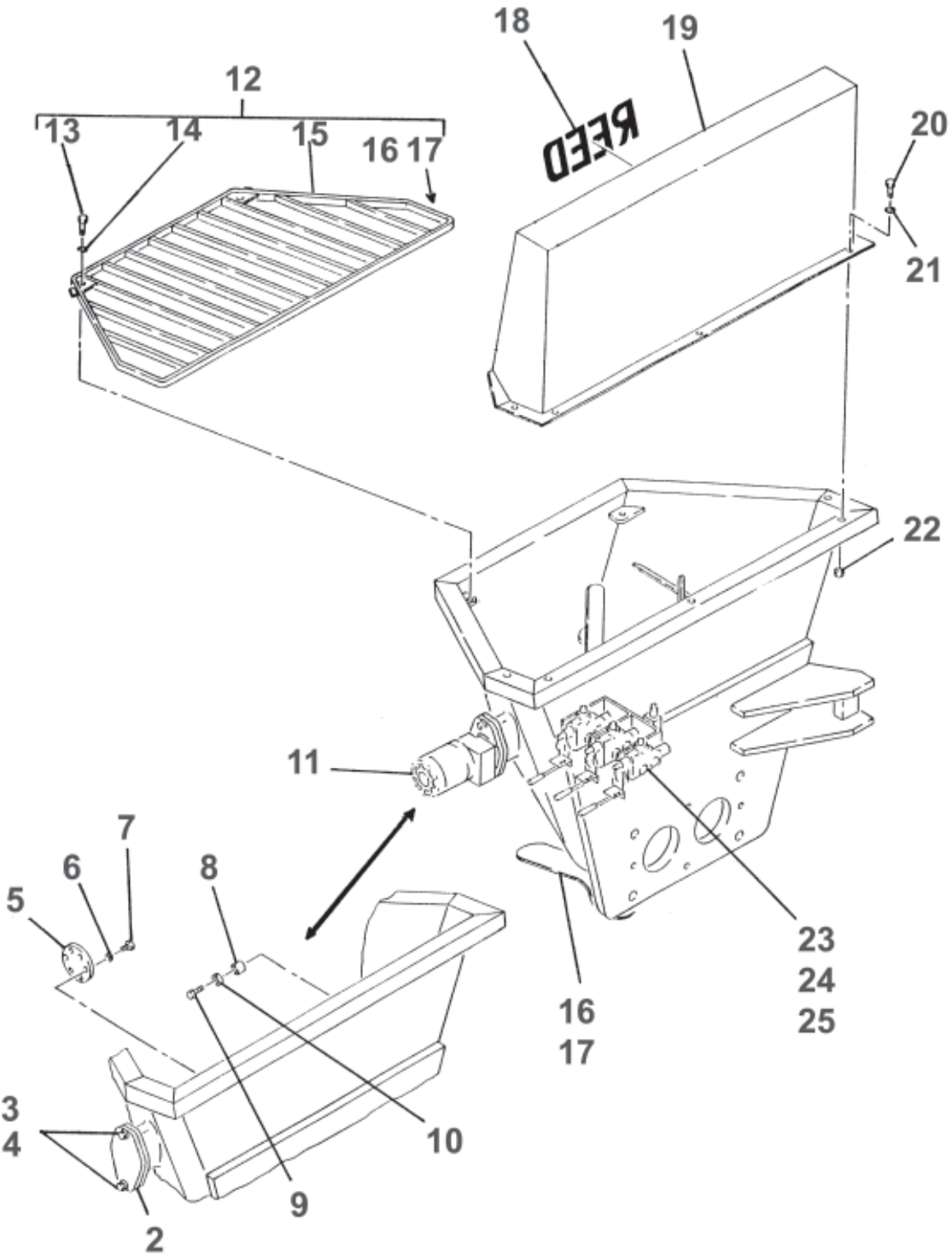


REVISION:



STANDARD HOPPER
INSTALLATION

B20
PARTS
GROUP 20
FIGURE 01
PAGE 01



REVISION:



STANDARD HOPPER INSTALLATION

B20
PARTS
GROUP 20
FIGURE 01
PAGE 02

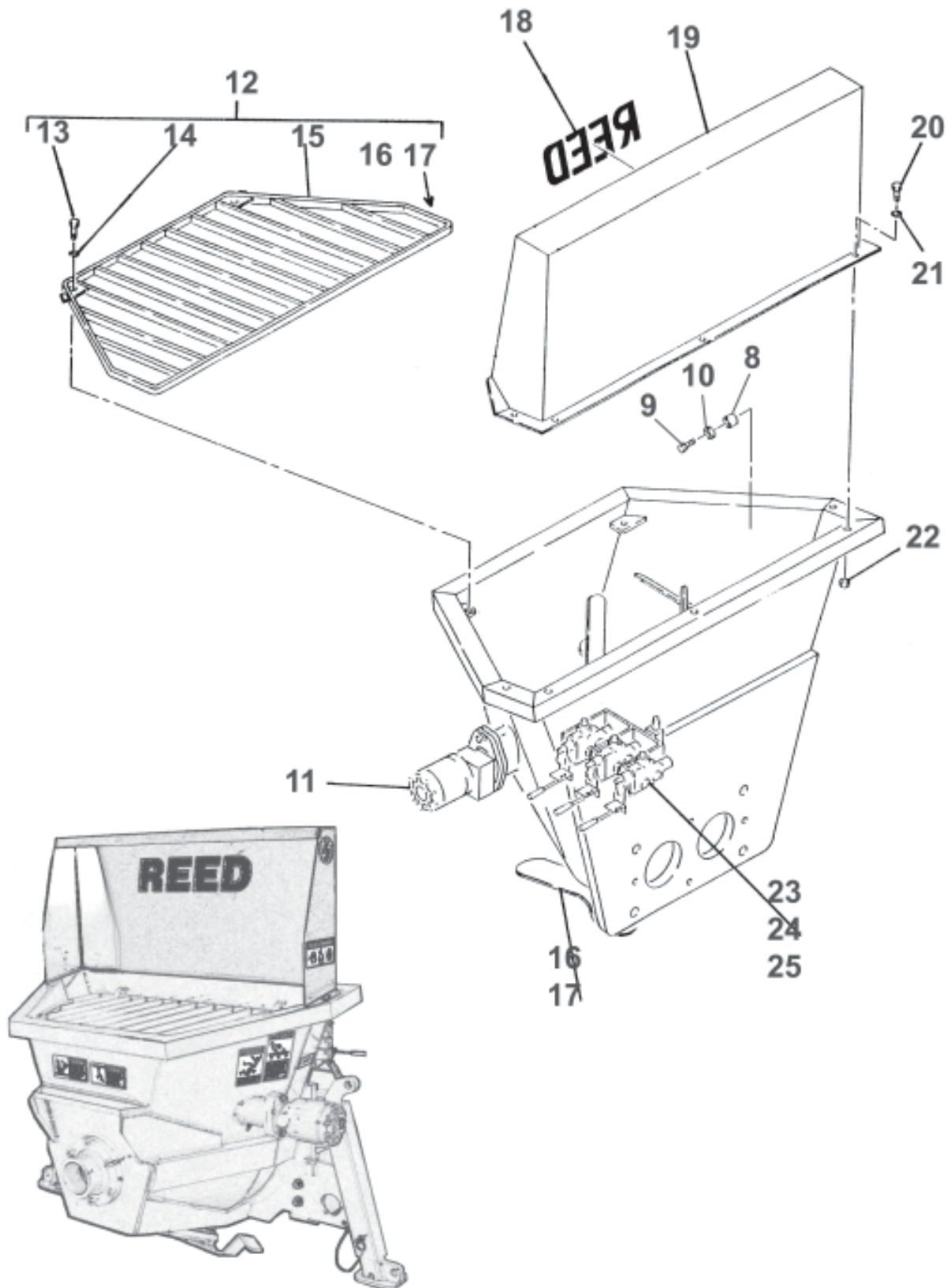
ITEM NO.	REED 'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	20-01	Installation, Standard Hopper (See Group 10, Figure 01 for NHA)	Ref
2	73433	• Cover, Remix Outside	1
3		• Bolt, Hex	2
4		• Washer, Lock	2
5	73434	• Cover, Remix Inside	1
6		• Washer, Lock	6
7		• Bolt, Hex	6
8	70219	• Bushing, Remix Shaft	1
9		• Bolt, Hex	1
10		• Washer, Flat	1
11	85761	• Assy, Std Hopper Agitator	1
12	86803	• Weldment, Hopper	1
13	70903	• • Plate, Bolt-Down	2
14		• • Washer, Lock	2
15	72227	• • Grate, Std Hopper	1
16	72971-2	• • Assy, Square Clean-Out Door (On Older Models)	REF
17	86542	• • Assy, Rounded Clean-Out Door-See Figure 04	1
18	73132	• Decal, REED 4 ½ Inch	1
19	85714	• Guard, Splash (Hopper Extension-PN 87064)	1
20		• Bolt, Hex	5
21		• Washer, Flat	5
22		• Nut, Lock	5
23	20-09	• Assy, Agitator Cntl Valve-(Optional Item)-See Figure 09	1
24	80-15	• Assy, 2 Spool Valve-(Optional Item)-See Group 80 Fig 15	1
25	80-17	• Assy, 3 Spool Valve-(Optional Item)-See Group 80 Fig 17	1

REVISION:



REINFORCED HOPPER INSTALLATION

B20
PARTS
GROUP 20
FIGURE 03
PAGE 01



REVISION:



REINFORCED HOPPER INSTALLATION

B20
PARTS
GROUP 20
FIGURE 03
PAGE 02

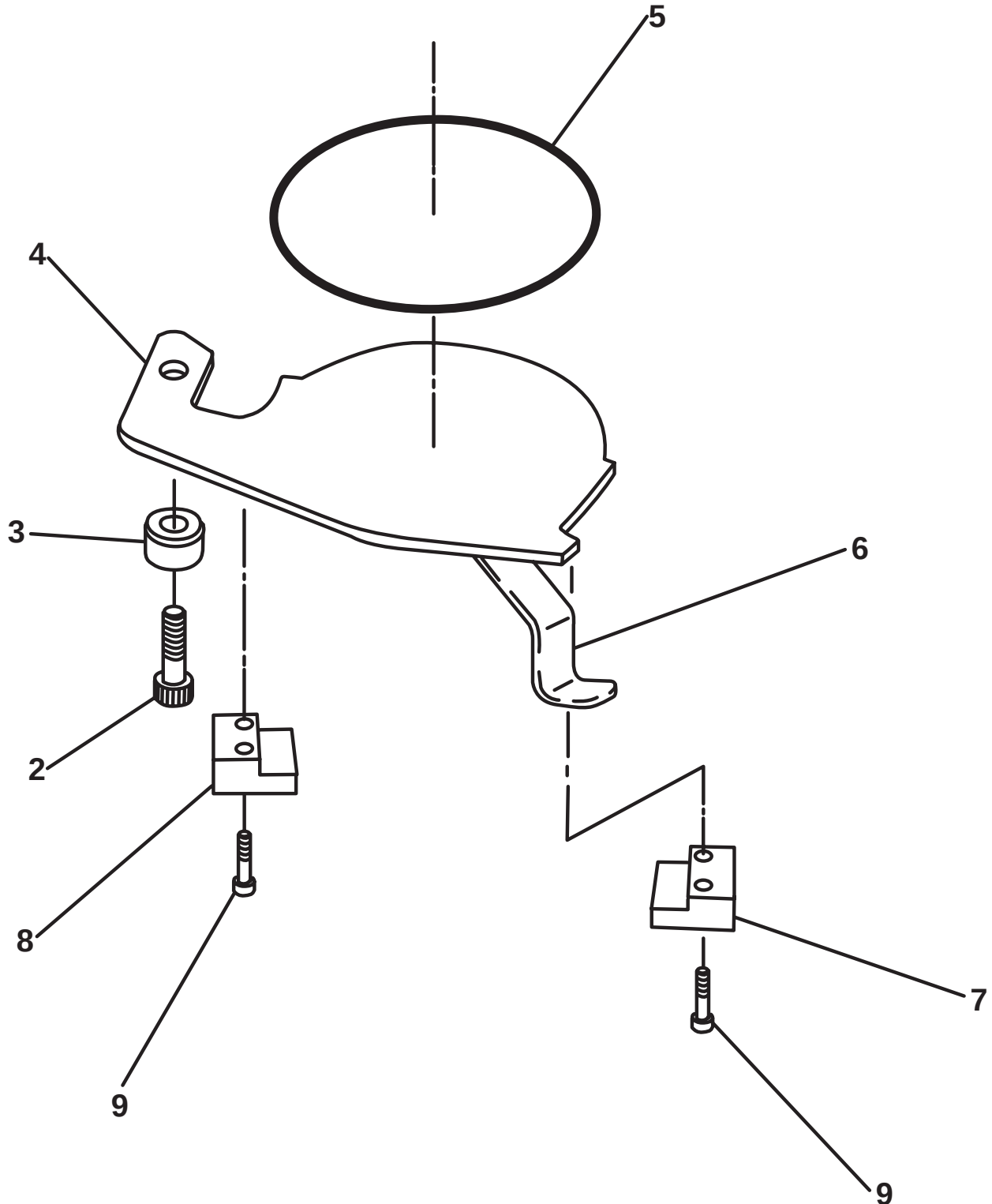
ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	20-02	Installation, Reinforced Hopper (See Group 10, Figure 01 for NHA)	Ref
-2	73433	• Cover, Remix Outside	1
-3		• Bolt, Hex	2
-4		• Washer, Lock	2
-5	73434	• Cover, Remix Inside	1
-6		• Washer, Lock	6
-7		• Bolt, Hex	6
8	70219	• Bushing, Remix Shaft	1
9		• Bolt, Hex	1
10		• Washer, Flat	1
11	85761	• Assy, Reinforced Hopper Agitator	1
12	87099	• Weldment, Reinforced-Modified Hopper	1
13	70903	• • Plate, Bolt-Down	2
14		• • Washer, Lock	2
15	72227	• • Grate, Std Hopper	1
16	72971-2	• • Assy, Square Clean-Out Door (On Older Models)	REF
17	86542	• • Assy, Rounded Clean-Out Door-See Figure 04	1
18	73132	• Decal, REED 4 ½ Inch	1
19	85714	• Guard, Splash (Hopper Extension-PN 87064)	1
20		• Bolt, Hex	5
21		• Washer, Flat	5
22		• Nut, Lock	5
23	20-09	• Assy, Agitator Cntl Valve-(Optional Item)-See Figure 09	1
24	80-15	• Assy, 2 Spool Valve-(Optional Item)-See Group 80 Fig 15	1
25	80-17	• Assy, 3 Spool Valve-(Optional Item)-See Group 80 Fig 17	1
		DASH (-) ITEM NOT ILLUSTRATED	

REVISION:



HOPPER CLEAN OUT DOOR ASSEMBLY (ROUNDED)

B20
PARTS
GROUP 20
FIGURE 03
PAGE 01



REVISION:



ROUNDED CLEAN OUT DOOR ASSEMBLY

B20
PARTS
GROUP 20
FIGURE 03
PAGE 02

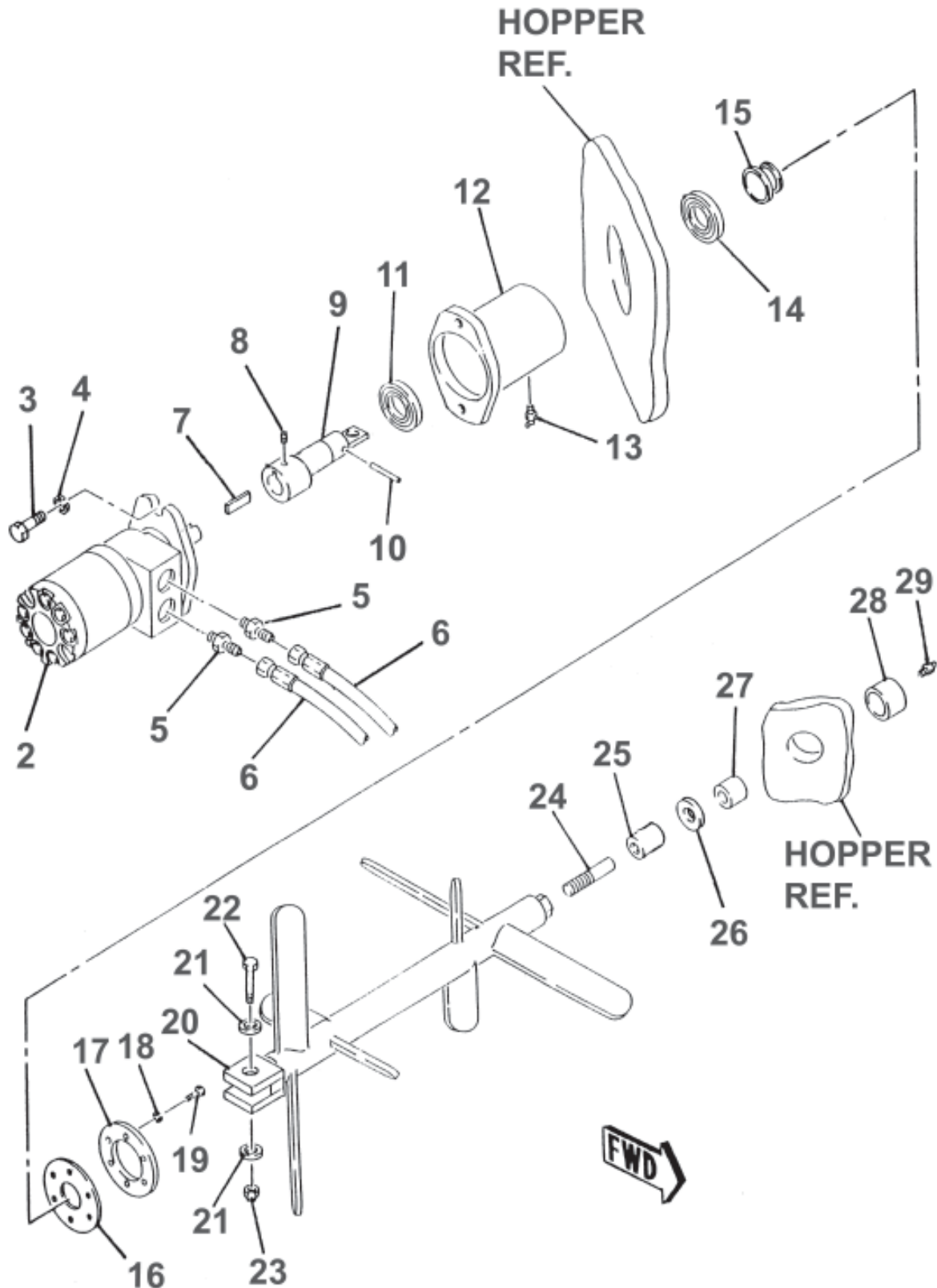
ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
-1	#86542	1 2 3 4 5 Assembly, Rounded Clean Out Door (See Group 20, Figure 01 and 02 for NHA)	Ref
2		• Bolt, Shoulder	1
3	85367	• Boss, Clean Out Door	1
4	86988	• Door, Clean Out	1
5	78142	• Assembly, 3 FT Cord	1
6	85369	• Handle, Clean Out Door	1
7	85313	• Block, Clean Out Door	2
8		• Capscrew, Socket Head	4
9	85368	• Bolt, Mod	2
10		• Nut, Jam	2
-11	85312	• Plate Seal	1
-12	85371	• Neck, Clean Out Door	1

DASH (-) ITEM NOT ILLUSTRATED

REVISION:

STANDARD/REINFORCED HOPPER AGITATOR ASSEMBLY

B20
PARTS
GROUP 20
FIGURE 04
PAGE 01





STANDARD/REINFORCED HOPPER AGITATOR ASSEMBLY

B20
PARTS
GROUP 20
FIGURE 04
PAGE 02

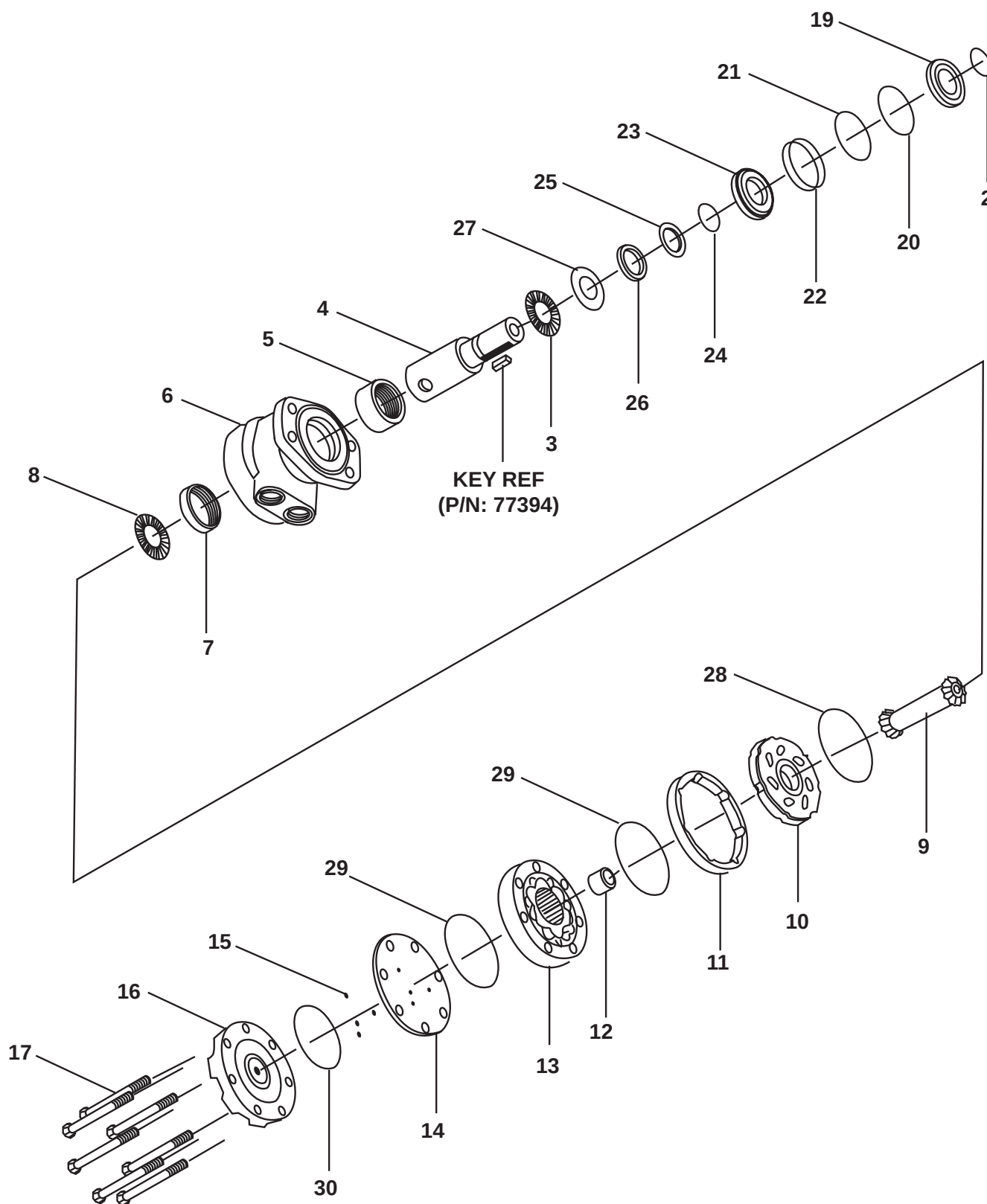
ITEM NO.	REED'S PARTS NO.	DESCRIPTION 1 2 3 4 5	QTY
-1	85761	Assembly, Standard Hopper Agitator (Optional Item) (See Group 20, Figure 01 for NHA)	Ref
2	85811	• Assembly, Standard Hopper Agitator Motor (See Group 20, Figure 07 for DET)	1
3		• Bolt, Hex (attaching parts)	1
4		• Washer, Lock (attaching parts)	2
5		• Fitting, STR	2
6	85658-002	• Assembly, Hose	2
7	30216	• Key	1
8	80374	• Screw, Set	1
9	85923	• Shaft, Agitator	1
10	80298	• Pin, Spring	1
11	85979	• Bearing, with Seal Ball	1
12	70226	• Housing, Bearing with Flange (Welded on Standard Hopper)	1
13	80516	• Fitting, 90 Grease	1
14	85978	• Bearing, Plain Ball	1
15	85976	• Ring, Agitator Wear	1
16	70212	• Seal	1
17	70211	• Flange, Seal	1
18		• Washer, Lock (attaching parts)	6
19		• Bolt, Hex (attaching parts)	6
20	85717	• Weldment, Agitator Shaft	1
21		• Washer, Lock (attaching parts)	2
22	80156	• Screw, Hex Head Cap (attaching parts)	1
23	80019	• Nut (attaching parts)	1
24	70214	• Shaft, Idle	1
25	77877	• Spacer	1
26		• Washer	1
27	70219	• Bearing, Idler	1
28	70210	• Housing, Idler Bearing (Welded on Standard Hopper)	1
29		• Fitting, STR Grease	1
30	85846	• Decal, Agitator	1
33		• DASH (-) ITEM NOT ILLUSTRATED	

REVISION:



STANDARD HOPPER AGITATOR MOTOR ASSEMBLY

B20
PARTS
GROUP 20
FIGURE 05
PAGE 01



REVISION:



STANDARD HOPPER AGITATOR MOTOR ASSEMBLY

B20
PARTS
GROUP 20
FIGURE 05
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	85811	Assembly, Standard Hopper Agitator Motor (See Group 20, Figure 04 for NHA)	Ref
2		• Ring Wire	1
3		• Bearing, Front Thrust	1
4		• Kit, Shaft	1
5		• Bearing, Front Housing	1
6		• Kit, Housing	1
7		• Bearing, Rear Housing	1
8		• Bearing, Rear Thrust	1
9		• Kit, Drive Link	1
10		• Bearing, Front Thrust	1
11		• Manifold	1
12		• Boot Manifold	1
13		• Kit, Free Turn Rotor	1
14		• Plate, Balance	1
15		• Ball, Steel	4
16		• Cover, Motor End	1
17		• Bolt, Hex (attaching part)	7
-18	85809SK	• Kit, Seal	1
19		• • Seal, Dust	1
20		• • Ring, Split Wire	1
21		• • Shim, Metal Back Up	1
22		• • Seal, High Pressure	1
23		• • Carrier, Seal	1
24		• • Shim, Metal Back Up	1
25		• • Seal, Polyamid	1
26		• • Seal, Shaft	1
27		• • Washer, Thrust	1
28		• • Seal, Rear Housing	1
29		• • Seal, Body	2
30		• • Seal, End Cover	1

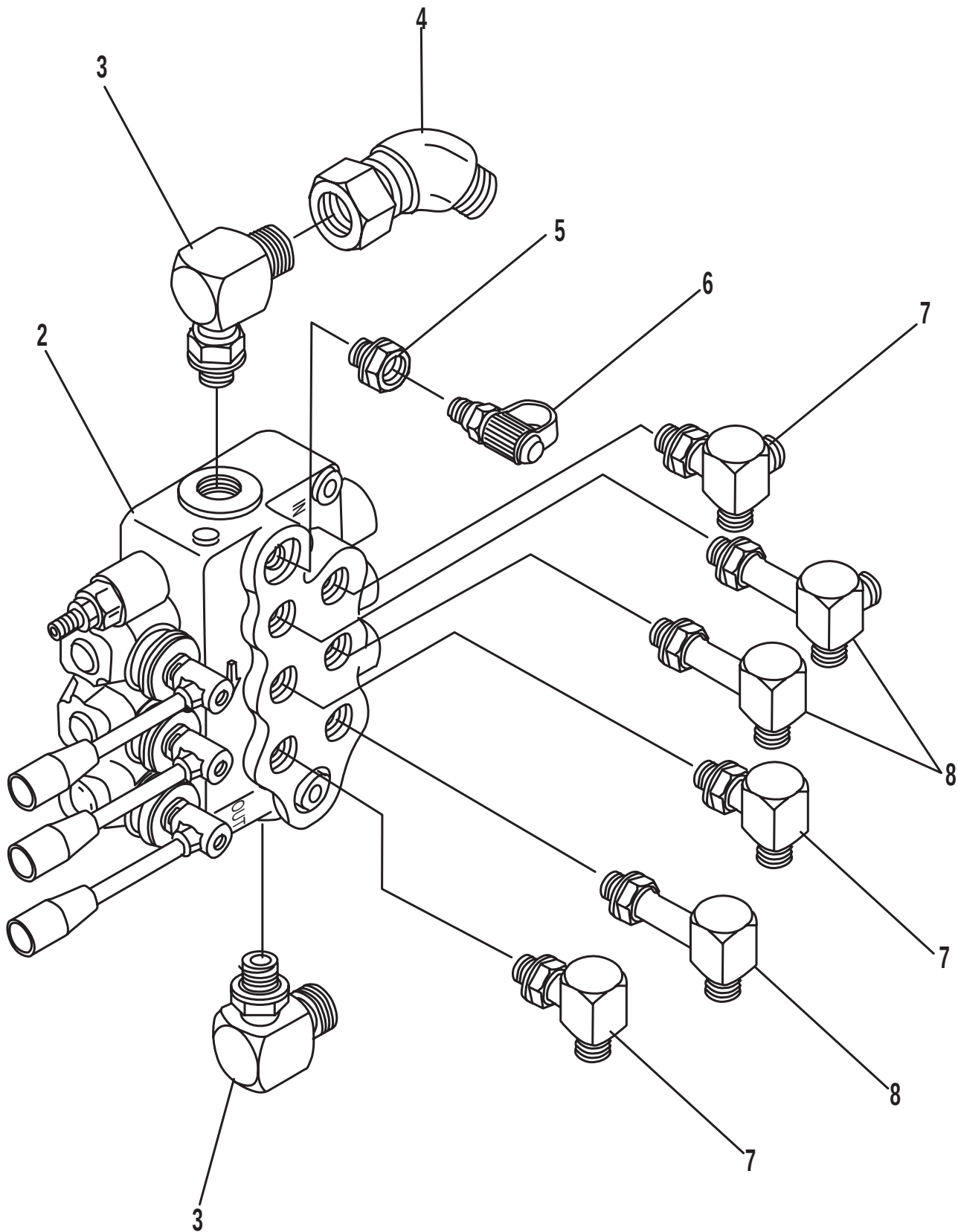
DASH (-) ITEM NOT ILLUSTRATED

REVISION:



3 SPOOL CONTROL VALVE ASSEMBLY

B20
PARTS
GROUP 20
FIGURE 06
PAGE 01



REVISION:



3 SPOOL CONTROL VALVE ASSEMBLY

B20
PARTS
GROUP 20
FIGURE 06
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	20-08	Assembly, 3 Spool Control Valve (See Group 20, Figure 01 and Figure 02 for NHA)	Ref
2	74471	• Sub-Assembly, Agitator Control Valve (See Group 20, Figure 10 for DET)	1
3		• Fitting, 90	2
4		• Swivel, 45	1
5		• Reducer, 8-6	1
6	800083	• Fitting, Mini Check (Port)	1
7		• Fitting, 90	3
8		• Fitting, 90	3
-9		• Bolt, Hex	2
-10		• Washer, SPL Lock	2

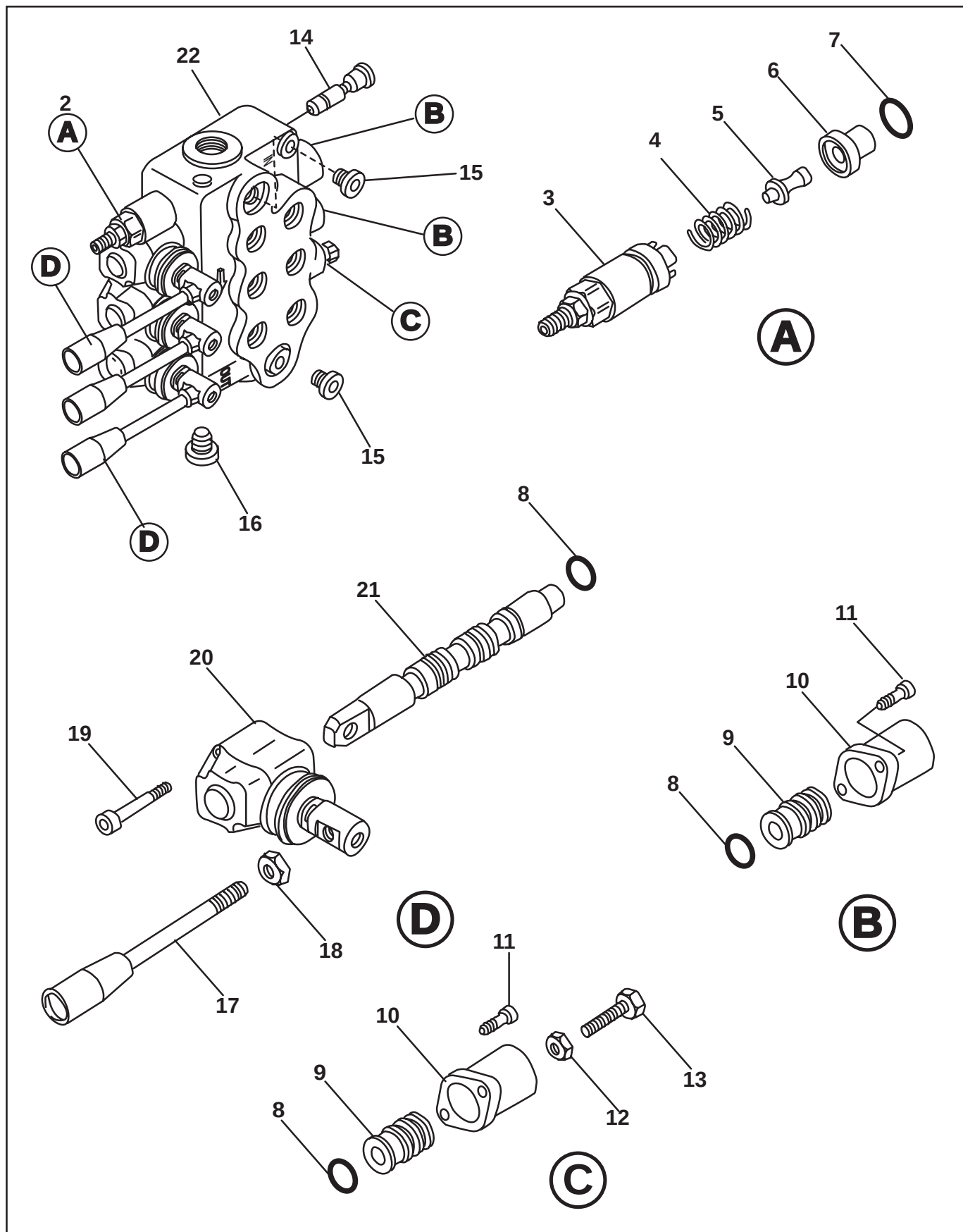
DASH (-) ITEM NOT ILLUSTRATED

REVISION:



3 SPOOL CONTROL VALVE SUBASSEMBLY

B20
PARTS
GROUP 20
FIGURE 07
PAGE 01





3 SPOOL CONTROL VALVE SUBASSEMBLY

B20
PARTS
GROUP 20
FIGURE 07
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
-1	74471	Sub-Assembly, 3 Spool Control Valve (See Group 20, Figure 08 for NHA)	Ref
2	85706	Cartridge, Relief	1
3		• • Kit, Screw	1
4		• • Spring	1
5		• • Pin, Screw Kit	1
6		• • Ring	1
7		• • O-Ring	1
8		• O-Ring	4
9		• Kit, Spool Control	3
10		• Cap, Spool	3
11		• Screw, Soc (attaching parts)	6
12		• Nut	1
13		• Bolt, Hex	1
14		• Kit, VRS	1
15		• Plug	2
16		• Plug	1
17	74471-017	• Handle, 3 Spool Manual Valve	3
18		• Nut (attaching parts)	3
19		• Screw, SOC	6
20	74471-020	• Box, Lever-3 Spool Manual Valve	3
21		• Spool	3
22		• Body, Valve	1

DASH (-) ITEM NOT ILLUSTRATED



TRAILER MOUNTED PUMP MODEL *B20*
ILLUSTRATED PARTS MANUAL

B20
PARTS
GROUP 20
FIGURE 08
PAGE 01

THIS PAGE INTENTIONALLY LEFT BLANK

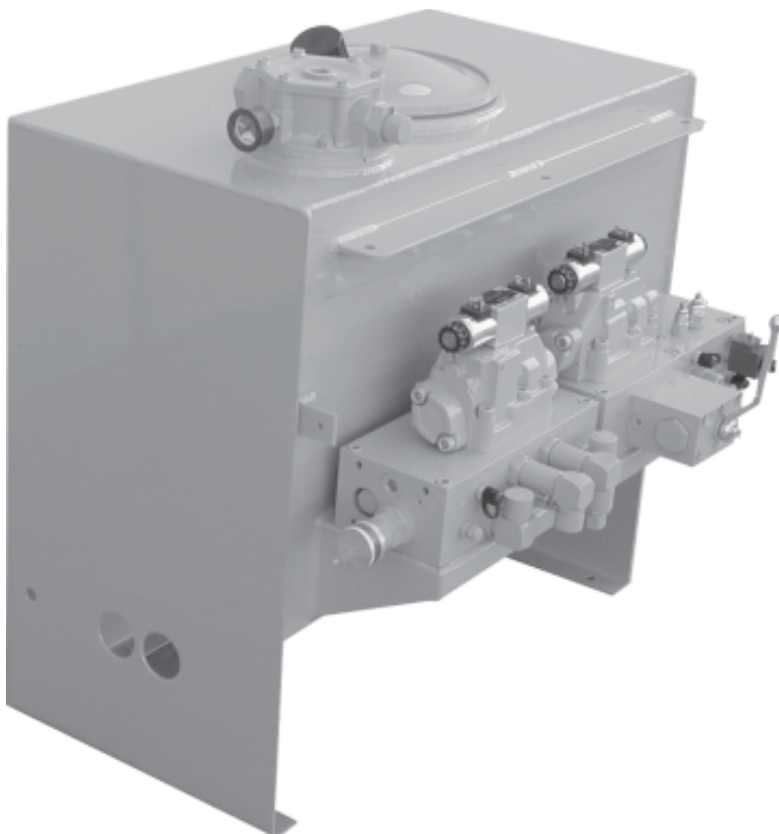


TRAILER MOUNTED PUMP MODEL *B20* GROUP 30 TANK INSTALLATION

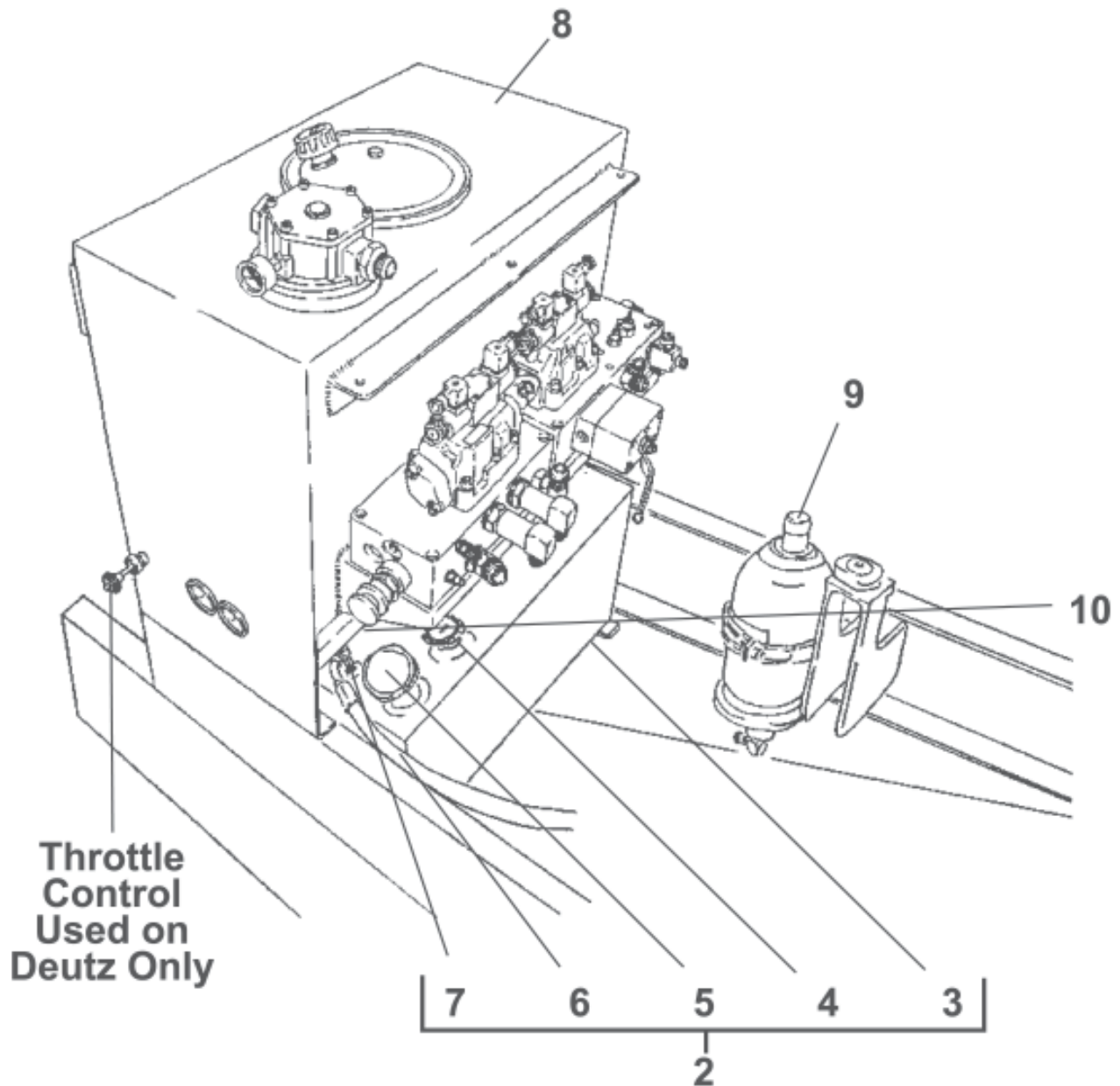
B20
PARTS
GROUP 30
FIGURE 01
PAGE 00

REED TRAILER MOUNTED CONCRETE PUMP MODEL *B20* **ILLUSTRATED PARTS**
MANUAL GROUP 30 HYDRAULIC TANK INSTALLATION CONTAINS THE FOLLOWING
FIGURES:

- FIGURE 00** TABLE OF CONTENTS
- FIGURE 01** TANK INSTALLATION
- FIGURE 02** HYDRAULIC TANK ASSEMBLY
- FIGURE 03** SWING TUBE CIRCUIT MANIFOLD ASSEMBLY
- FIGURE 04** SWING TUBE CIRCUIT MAIN SOLENOID VALVE ASSEMBLY
- FIGURE 05** SWING TUBE CIRCUIT PILOT SOLENOID VALVE ASSEMBLY
- FIGURE 06** BALL VALVE ASSEMBLY
- FIGURE 07** DRIVE CYLINDER CIRCUIT MANIFOLD ASSEMBLY
- FIGURE 08** DRIVE CYLINDER CIRCUIT MAIN SOLENOID VALVE ASSEMBLY
- FIGURE 09** DRIVE CYLINDER CIRCUIT PILOT SOLENOID VALVE ASSEMBLY
- FIGURE 10** ACCUMULATOR ASSEMBLY
- FIGURE 11** ACCUMULATOR BLADDER REPAIR KIT



REVISION:



(NOTE: FUEL CAP & GAUGE ACTUALLY ON OPPOSITE SIDE)



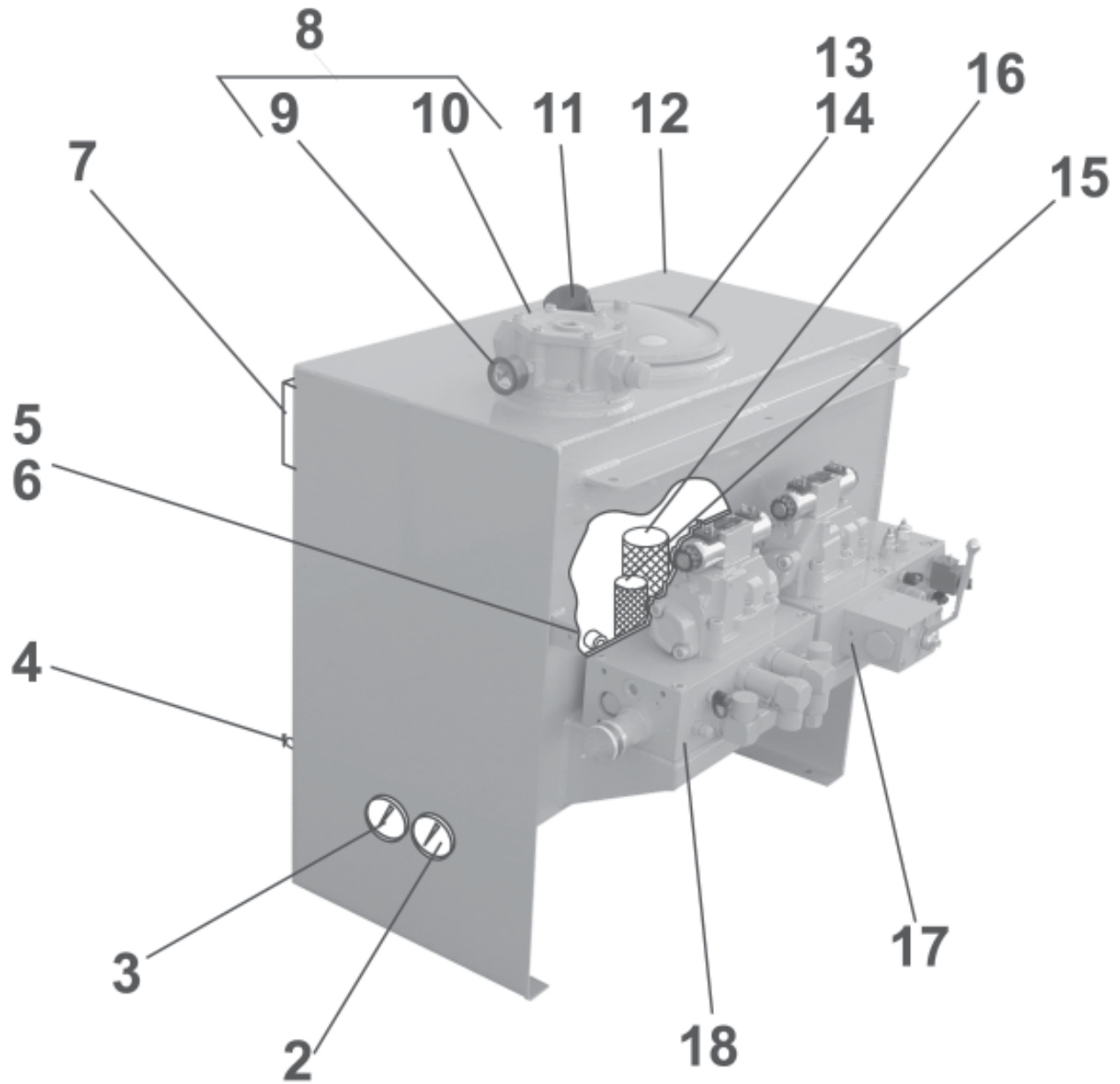
TANK INSTALLATION

B20
PARTS
GROUP 30
FIGURE 01
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
-1	30-01	Installation, Tank (See Group 10, Figure 01, 02, 03, and 04 for NHA)	Ref
2	85363	• Assembly, Fuel Tank	1
3	85111	• • Weldment, Fuel Tank	1
4	85569	• • Gauge, Fuel	1
5	85570	• • Cap, Fuel	1
6	85362	• • Assembly, Fuel Pick Up Tube	2
7		• • Elbow, 90	2
8	85361	• Assembly, Hydraulic Tank (See Group 30, Figure 02 for DET)	1
9	30-10	• Assembly, Accumulator (See Group 30, Figure 10 for DET)	1
10	85815	• Valve, Solenoid	1
-11	85701	• • Cartridge, Solenoid Valve	1
-12	85702	• • Coil, 12 VDC	1
-13	74716	• Hose, 6 Feet Fuel	1
-14	10577	• Clamp, Fuel Hose	2
-15	87797	• Kit, Hose (See SCHEMATIC Section, Page 05 for DET)	1

DASH (-) ITEM NOT ILLUSTRATED

REVISION:





HYDRAULIC TANK ASSEMBLY

B20
PARTS
GROUP 30
FIGURE 02
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
-1	85361	Assembly, Hydraulic Tank (See Group 30, Figure 01 for NHA)	Ref
2	70366	• Gauge, 3,000 PSI Hydraulic	1
3	74562	• Gauge, 6,000 PSI Hydraulic	1
4	801025	• Cock, Drain	1
5	85574	• Valve, 2 Inch Check	1
6	10981	• Nipple, 2 Inch	1
7	74509	• Gauge, Sight	1
8	85282	• Filter, Return	1
9	85575	• • Gauge, Return Filter	1
10	85283	• • Element, Return Filter	1
11	85537	• • Filter, Breather	1
12	85102	• • Weldment, Hydraulic Tank	1
13	85824	• • End Cover, Hydraulic Tank	1
14	85867	• • Gasket, End Cover	1
15	79247	• Separator, Magnetic	1
16	800230	• Separator, Magnetic	1
17	85249	• Assembly, Swing Tube Circuit Manifold (See Group 30, Figure 03 for DET)	1
18	85248	• Assembly, Drive Cylinder Circuit Manifold (See Group 30, Figure 07 for DET)	1
-19	78598	• Plug, Hoffman	A/R

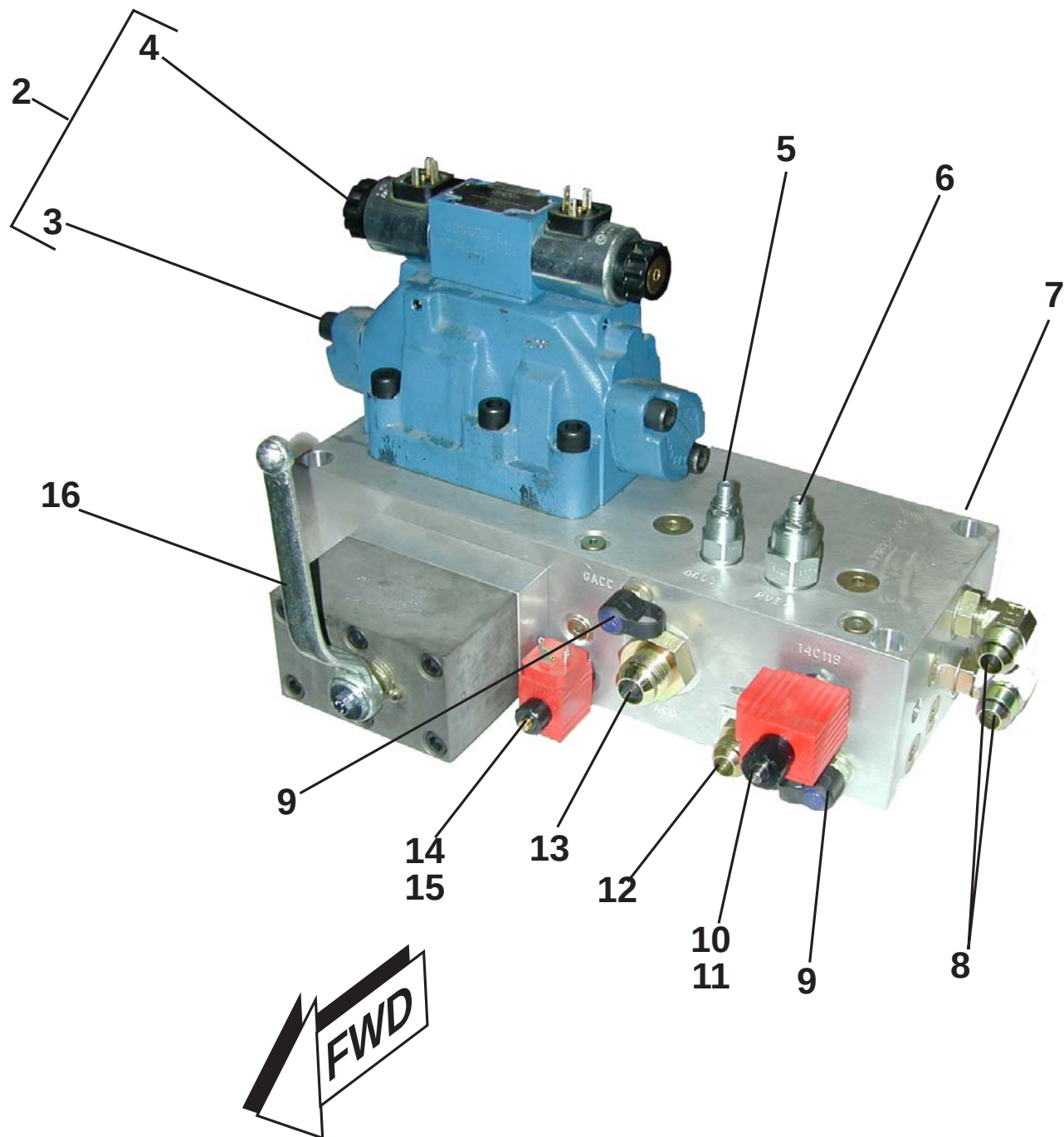
DASH (-) ITEM NOT ILLUSTRATED

REVISION:



SWING TUBE CIRCUIT
MANIFOLD ASSEMBLY

B20
PARTS
GROUP 30
FIGURE 03
PAGE 01



REVISION:



SWING TUBE CIRCUIT MANIFOLD ASSEMBLY

B20
PARTS
GROUP 30
FIGURE 03
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	85249	Assembly, Swing Tube Circuit Manifold (See Group 30, Figure 02 for NHA)	Ref
2	85693	• Assembly, Swing Tube Circuit Solenoid Valve	1
3	85694	• • Assembly, Swing Tube Circuit Main Solenoid Valve (See Group 30, Figure 04 for DET)	1
4	85695	• • Assembly, Swing Tube Circuit Pilot Solenoid Valve (See Group 30, Figure 05 for DET)	1
5	85704	• Cartridge, Unloader Valve	1
-5A	85704SK	• • Kit, Unloader Valve Cartridge Seal	1
6	85703	• Cartridge, Relief Valve	1
-6A	85703SK	• • Kit, Relief Valve Cartridge Seal	1
7		• Body, Swing Tube Circuit Manifold	1
8		• Elbow, 90	2
9	78593	• Port, Mini Check	2
10	85701	• Cartridge, SV4 Solenoid Valve	1
11	85702	• • Coil, SV4 Solenoid Valve Cartridge	1
12		• Fitting, STR	1
13		• Fitting, STR	1
14	857699	• Cartridge, SV3 Solenoid Valve	1
15	85700	• • Coil, SV3 Solenoid Valve Cartridge	1
16	85705	• Assembly, Ball Valve (See Group 30, Figure 06 for DET)	1

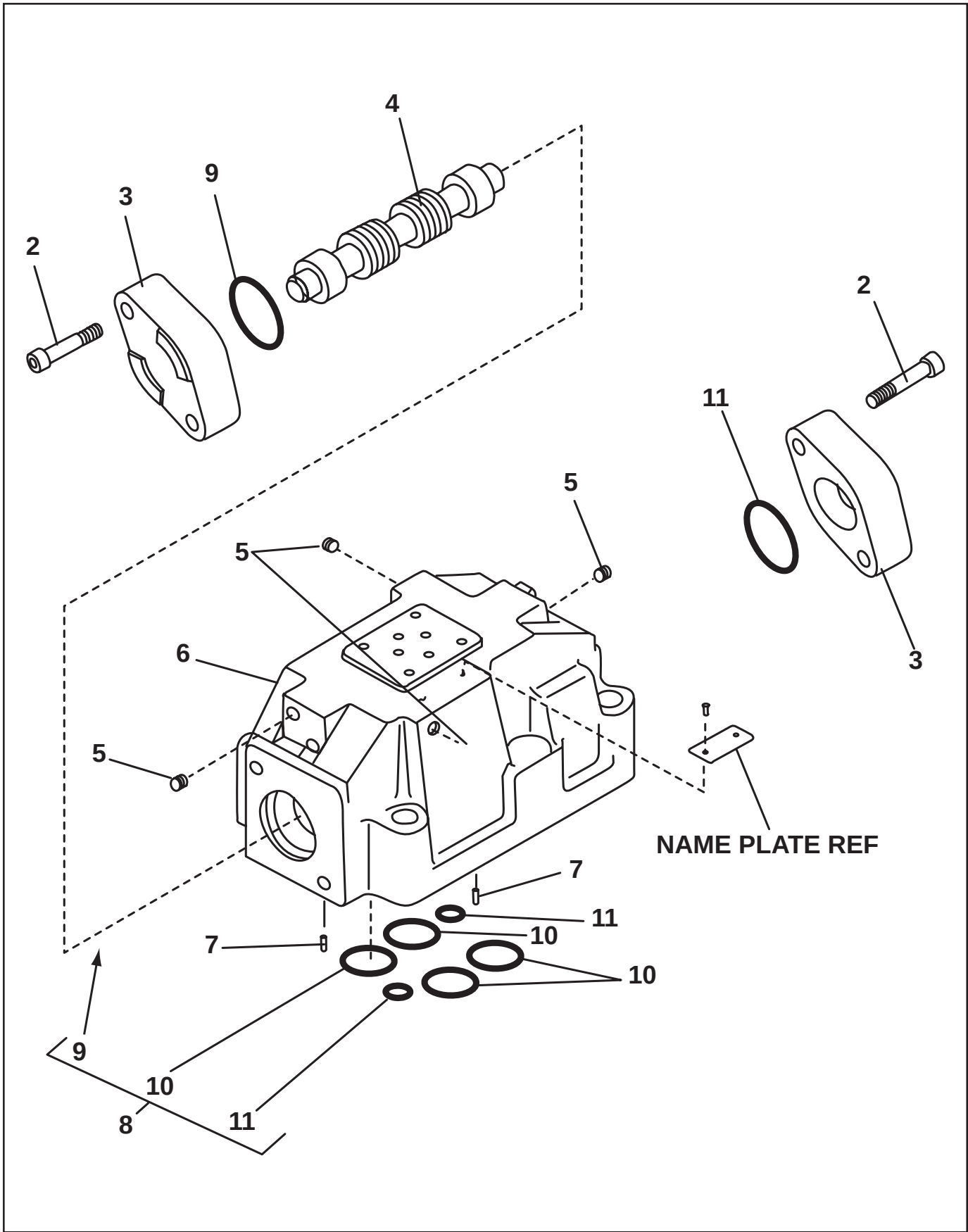
DASH (-) ITEM NOT ILLUSTRATED

REVISION:



SWING TUBE CIRCUIT MAIN
SOLENOID VALVE ASSEMBLY

B20
PARTS
GROUP 30
FIGURE 04
PAGE 01



REVISION:



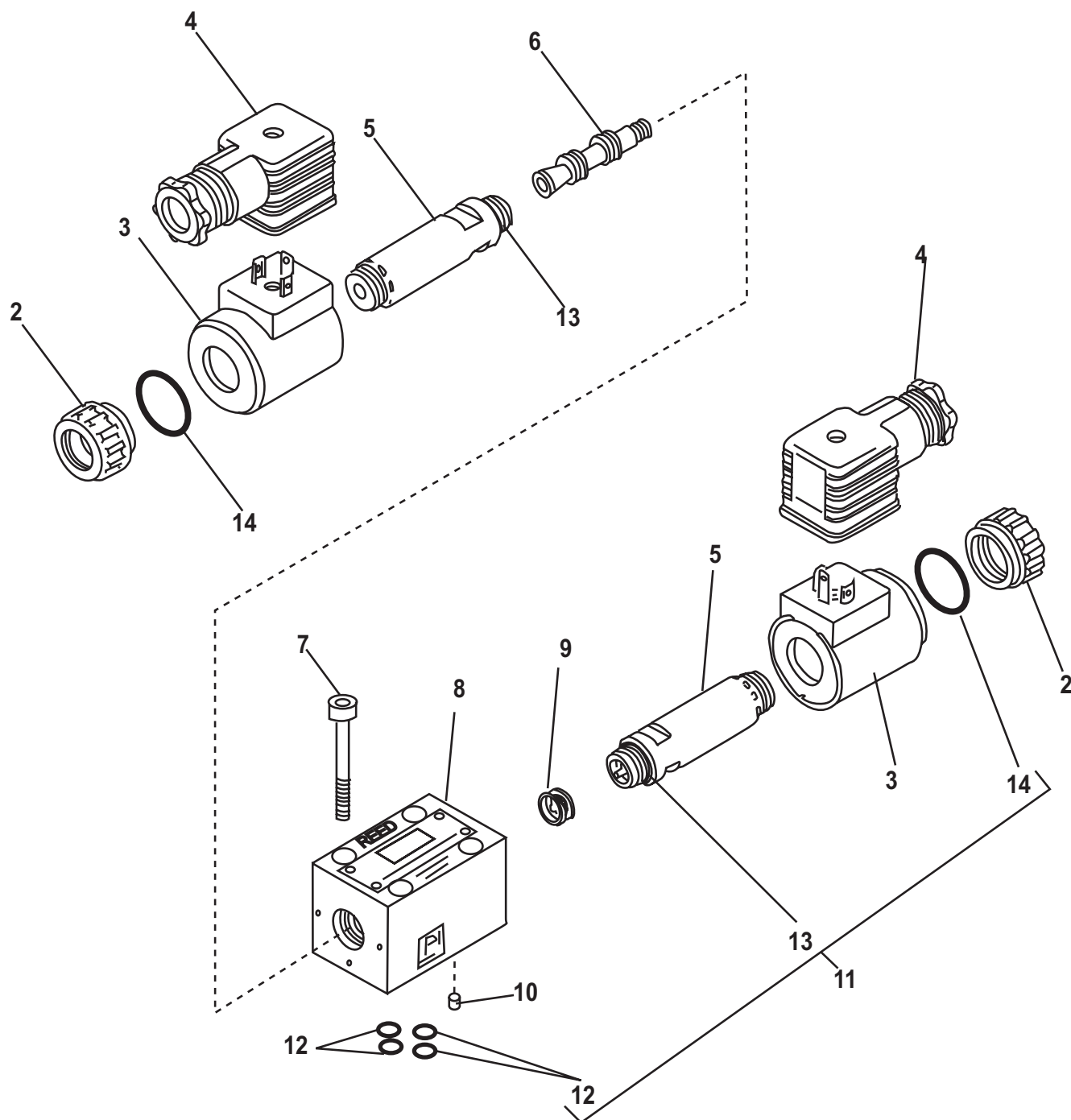
SWING TUBE CIRCUIT MAIN SOLENOID VALVE ASSEMBLY

B20
PARTS
GROUP 30
FIGURE 04
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	85694	Assembly, Swing Tube Circuit Main Solenoid Valve (See Group 30, Figure 03 for NHA)	Ref
2		• Screw, SOC	4
3		• Cover	2
4		• Spool	1
5		• Plug	4
6		• Housing, Cartridge	1
7		• Pin, Grooved	2
8	74994	• Kit, Seal	1
9		• • O-Ring	2
10		• • O-Ring	4
11		• • O-Ring	2

DASH (-) ITEM NOT ILLUSTRATED

REVISION:





SWING TUBE CIRCUIT PILOT SOLENOID VALVE ASSEMBLY

B20
PARTS
GROUP 30
FIGURE 05
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	15-Aug	Assembly, Swing Tube Circuit Pilot Solenoid Valve (See Group 30, Figure 03 for NHA)	Ref
2		• Cap, Coil	2
3	85692	• Coil Solenoid	2
4	74597	• Connector, Plug	2
5		• Armature	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

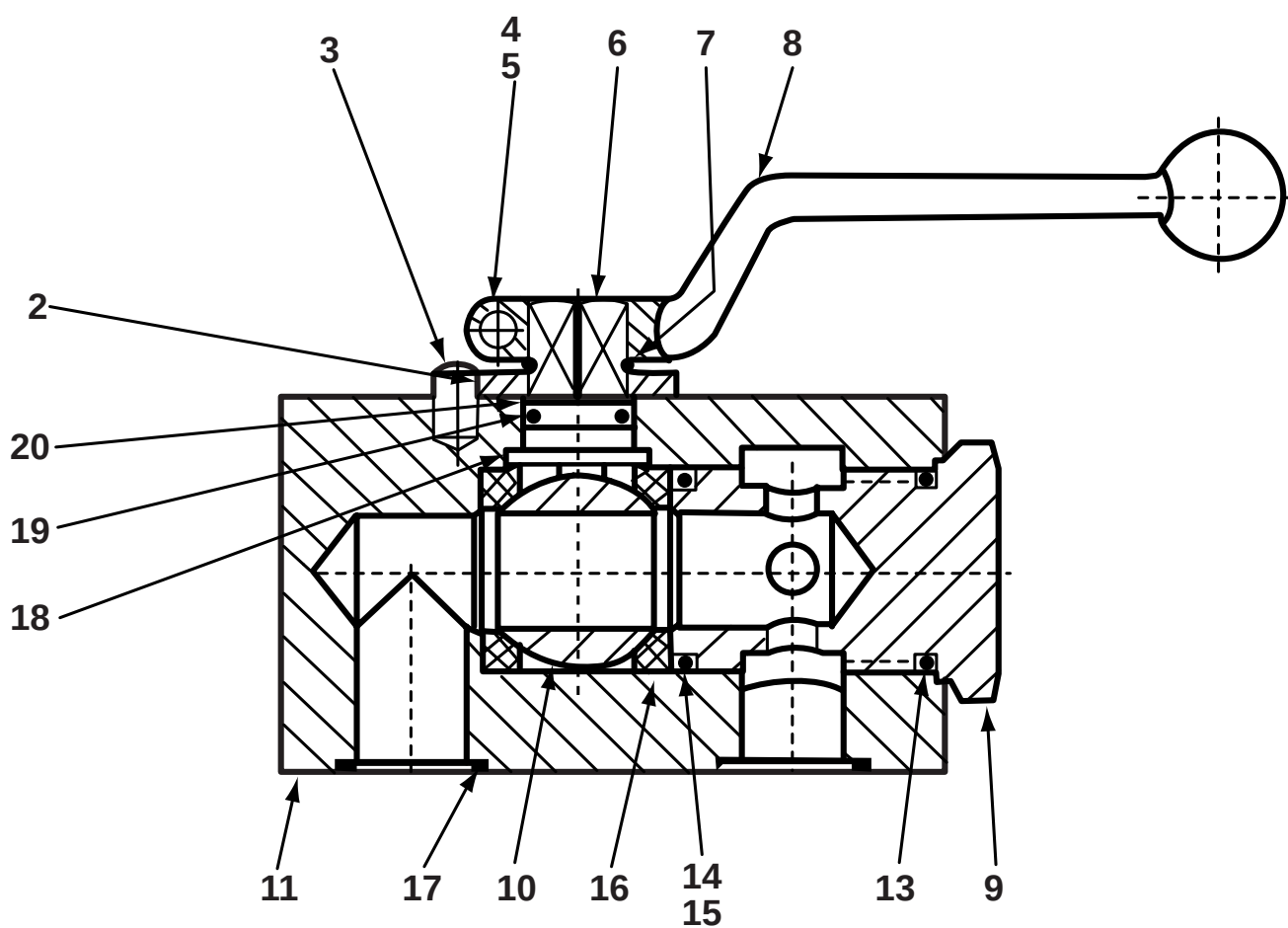
DASH (-) ITEM NOT ILLUSTRATED

REVISION:



BALL VALVE ASSEMBLY

B20
PARTS
GROUP 30
FIGURE 06
PAGE 01



REVISION:



BALL VALVE ASSEMBLY

B20
PARTS
GROUP 30
FIGURE 06
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	85705	Assembly, Ball Valve (See Group 30, Figure 03 for NHA)	Ref
2		• Washer, Limit	1
3		• Pin, Stop	1
4		• Bolt, Hex	1
5		• Nut, Hex	1
6		• Handle, Control	1
7		• Spindle, Control	1
8		• Retainer, Spring	1
9		• Plug	1
10		• Ball	1
11		• Housing	1
-12		• Kit, Seal	1
13		• • O-Ring	1
14		• • O-Ring	1
15		• • Ring, Back Up	1
16		• • Seal, Bowl	2
17		• • O-Ring	1
18		• • Washer, Thrust	1
19		• • O-Ring	1
20		• • Ring, Back Up	1

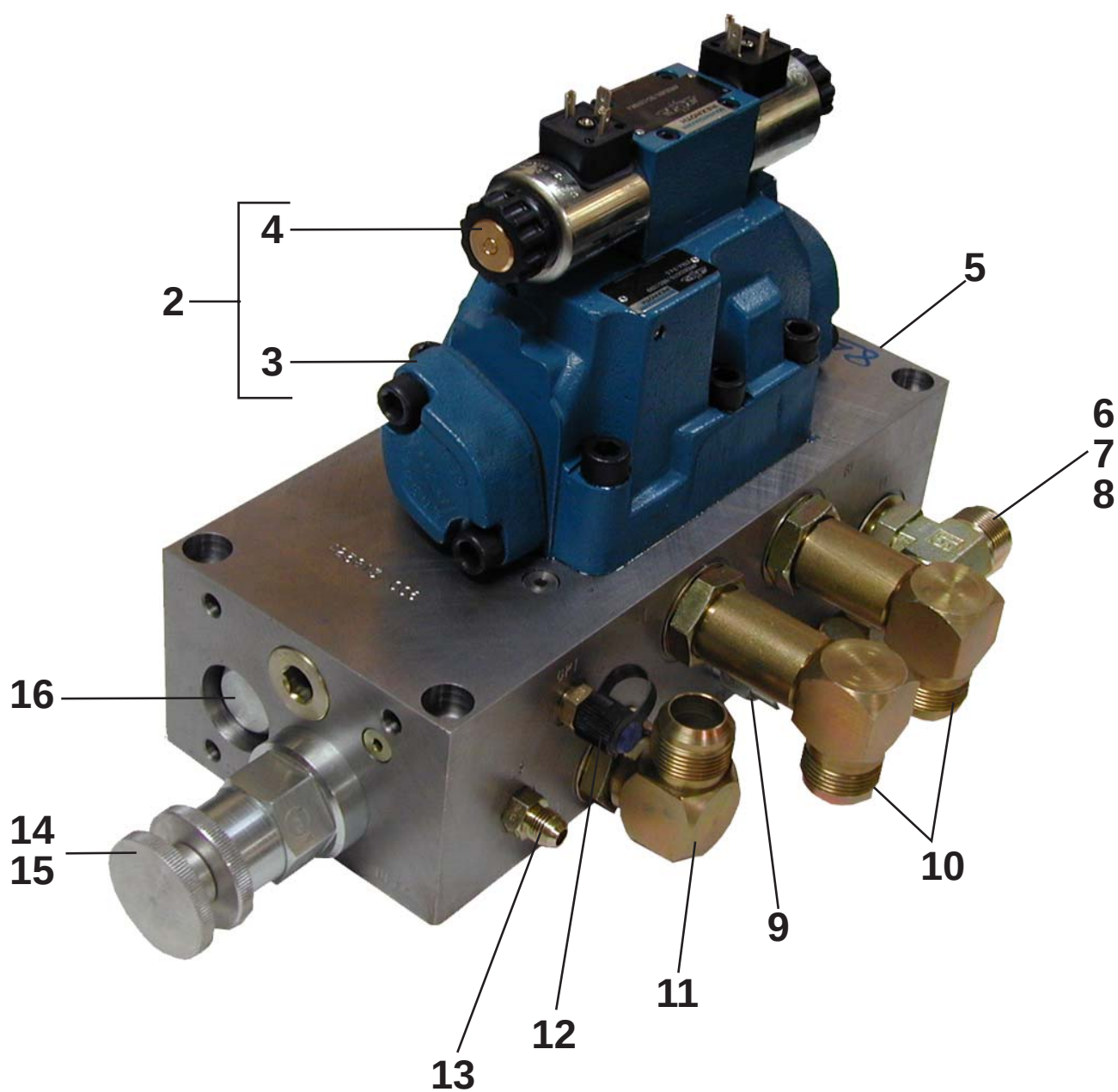
DASH (-) ITEM NOT ILLUSTRATED

REVISION:



DRIVE CYLINDER CIRCUIT MANIFOLD ASSEMBLY

B20
PARTS
GROUP 30
FIGURE 07
PAGE 01



REVISION:



DRIVE CYLINDER CIRCUIT MANIFOLD ASSEMBLY

B20
PARTS
GROUP 30
FIGURE 07
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
-1	85248	1 2 3 4 5 Assembly, Drive Cylinder Circuit Manifold (See Group 30, Figure 02 for NHA)	Ref
2	85689	• Assembly, Drive Cylinder Circuit Solenoid Valve	1
3	85690	• • Assembly, Drive Cylinder Circuit Main Solenoid Valve (See Group 30, Figure 08 for DET)	1
4	85691	• • Assembly, Drive Cylinder Circuit Pilot Solenoid Valve (See Group 30, Figure 09 for DET)	1
5		• Body, Drive Cylinder Circuit Manifold	1
6		• Tee	1
7		• Reducer	1
8		• Plug	1
9	85696	• Cartridge, Relief Valve	1
10		• Elbow, 90	2
11		• Elbow, 45	1
12	78593	• Port, Mini Check	1
13		• Fitting, STR	1
14	85697	• Cartridge, Flow Control Valve	1
15	85697SK	• Kit, Flow Control Valve Cartridge Seal	1
16	85698	• Cartridge, Check Valve	1

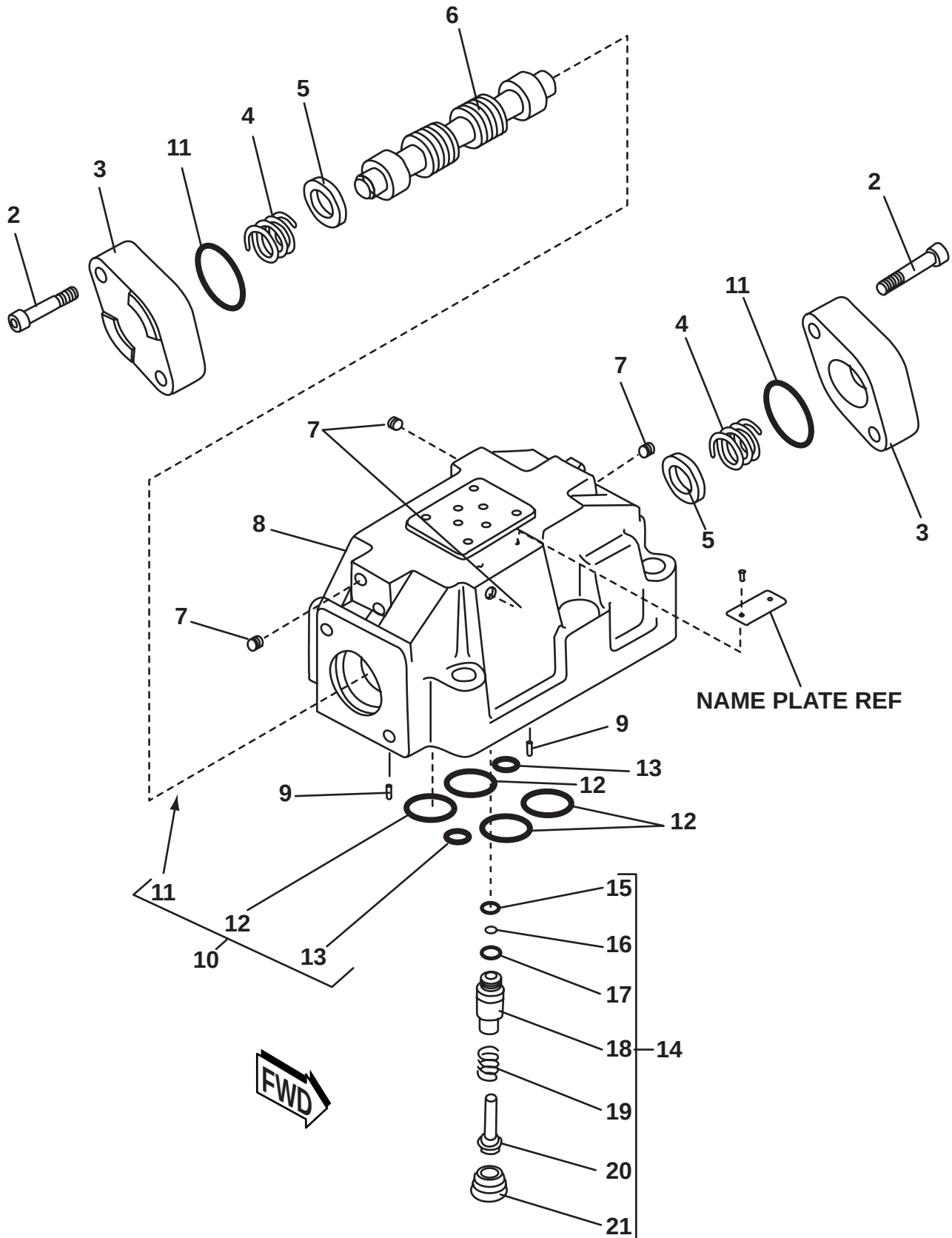
DASH (-) ITEM NOT ILLUSTRATED

REVISION:



DRIVE CYLINDER CIRCUIT MAIN SOLENOID VALVE ASSEMBLY

B20
PARTS
GROUP 30
FIGURE 08
PAGE 01



REVISION:



DRIVE CYLINDER CIRCUIT MAIN SOLENOID VALVE ASSEMBLY

B20
PARTS
GROUP 30
FIGURE 08
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
-1	85690	1 2 3 4 5 Assembly, Drive Cylinder Circuit Main Solenoid Valve (See Group 30, Figure 07 for NHA)	Ref
2		• Screw, SOC	4
3		• Cover	2
4		• Spring, Compression	2
5		• Plate, Spring	2
6		• Spool	1
7		• Plug	4
8		• Housing, Cartridge	1
9		• • Pin, Grooved	2
10	74994	• • Kit, Seal	1
11		• • O-Ring	2
12		• • O-Ring	4
13		• • O-Ring	2
14	73147	• Sub-Assembly, Pilot Pressure Valve	1
15		• • O-Ring	1
16		• • Circlip	1
17		• • O-Ring	1
18		• • Sleeve	1
19		• • Spring, Compression	1
20		• • Cone	1
21		• • Valve Seat	1

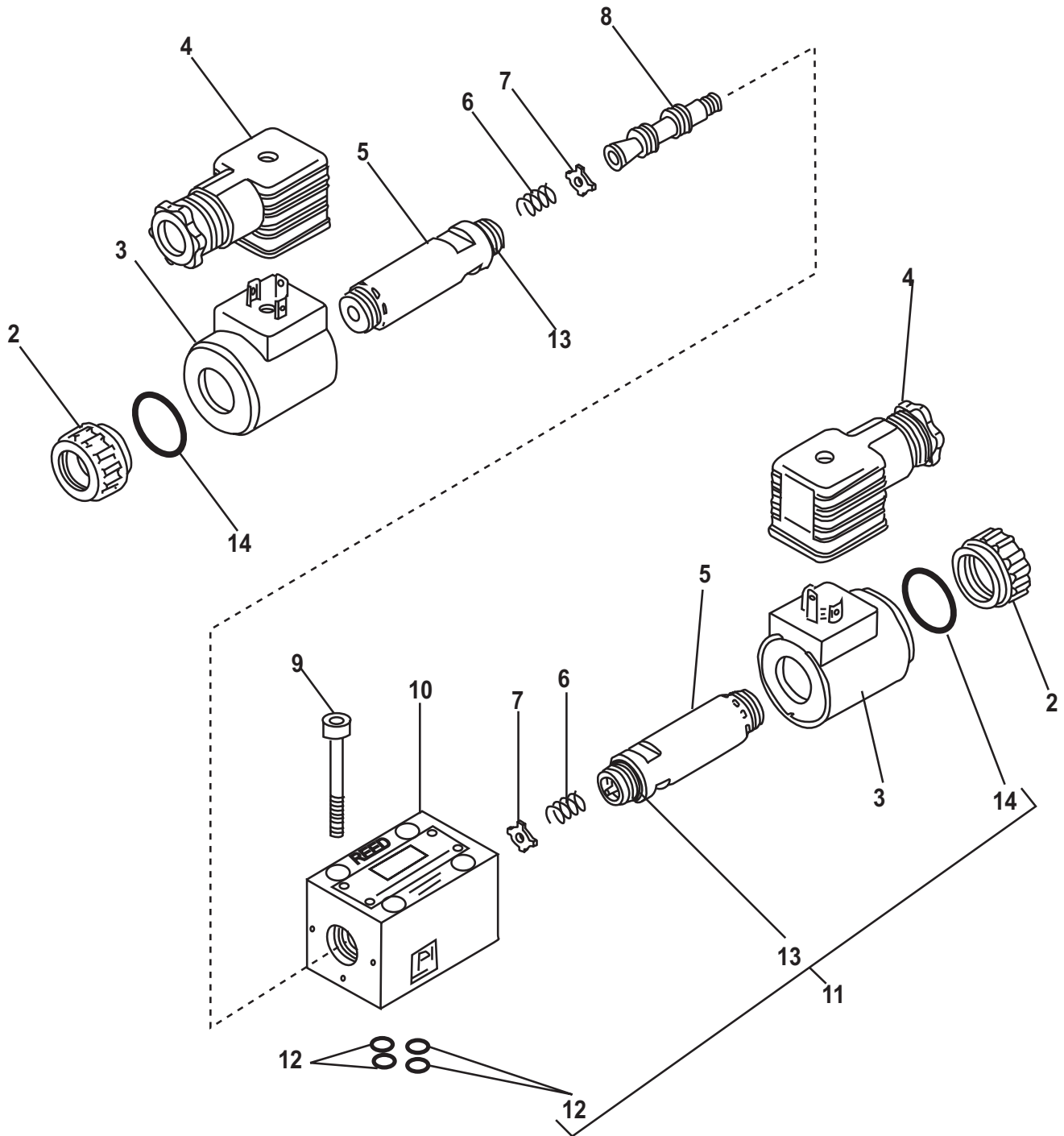
DASH (-) ITEM NOT ILLUSTRATED

REVISION:



DRIVE CYLINDER CIRCUIT PILOT SOLENOID VALVE ASSEMBLY

B20
PARTS
GROUP 30
FIGURE 09
PAGE 01



REVISION:



DRIVE CYLINDER CIRCUIT PILOT SOLENOID VALVE ASSEMBLY

B20
PARTS
GROUP 30
FIGURE 09
PAGE 02

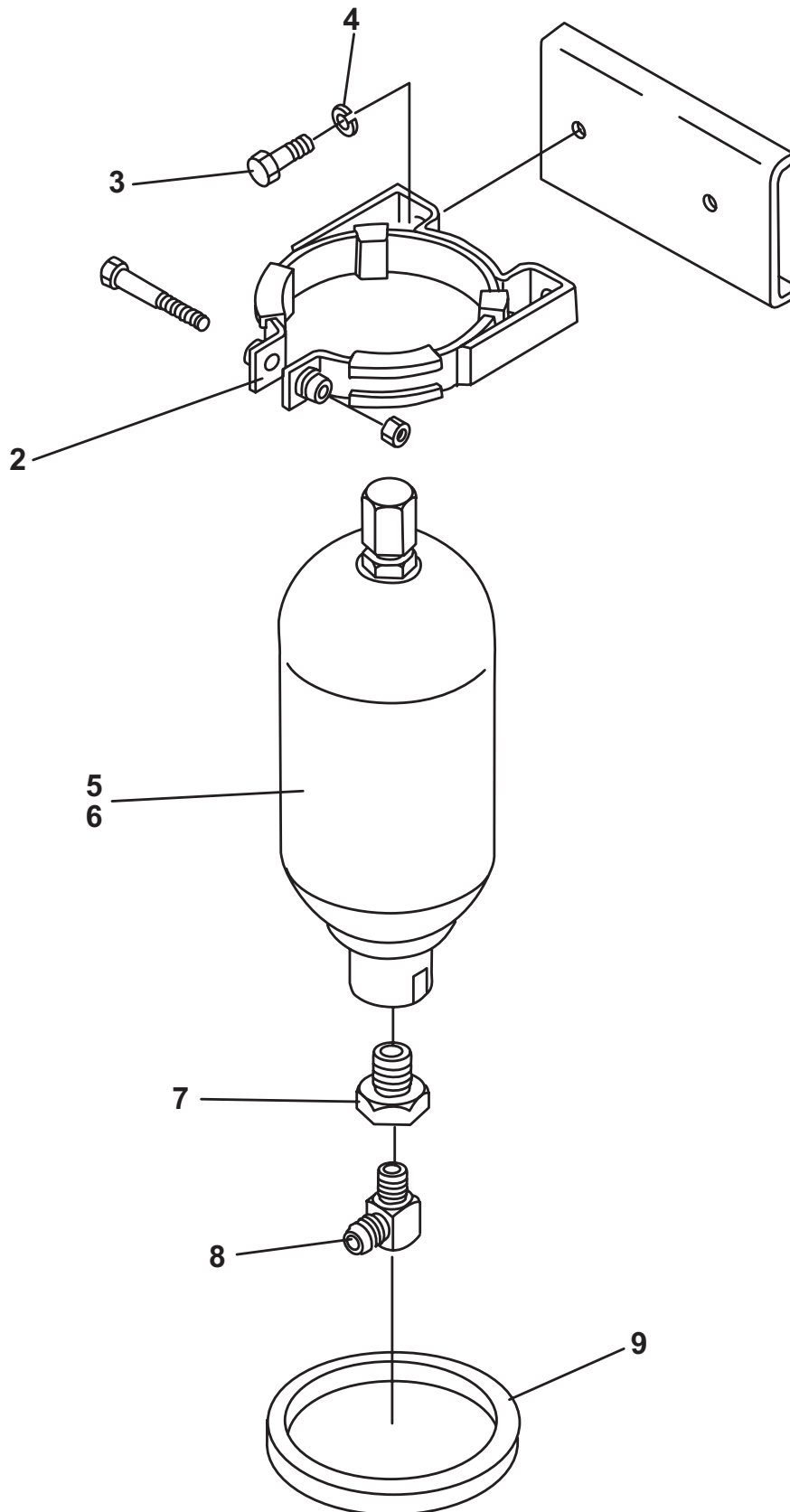
ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	85695	Assembly, Swing Tube Circuit Pilot Solenoid Valve (See Group 30, Figure 03 for NHA)	Ref
2		• Cap, Coil	2
3	85692	• Coil, Solenoid	2
4	74597	• Connector, Plug	2
5		• Armature	2
6		• Spool	1
7		• Screw, SOC	4
8		• Housing, Solenoid Valve	1
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

REVISION:

ACCUMULATOR ASSEMBLY

B20
PARTS
GROUP 30
FIGURE 10
PAGE 01



REVISION:



ACCUMULATOR ASSEMBLY

B20
PARTS
GROUP 30
FIGURE 10
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	30-10	Assembly, Accumulator (See Group 30, Figure 01 for NHA)	Ref
2	73171	• Bracket, Accumulator	1
3		• Bolt, Hex (attaching parts)	2
4		• Washer, Lock (attaching parts)	2
5	74515	• Accumulator, 1 Gal	1
6	30-11	• Kit, Bladder Repair (See Group 30, Figure 11 for REF)	1
7		• Reducer	1
8		• Elbow, 90	1
9	801028	• Grommet, Accumulator	1
-10	71460	• Kit, Accumulator Charge (See Group 80, Figure 07 for REF)	Ref

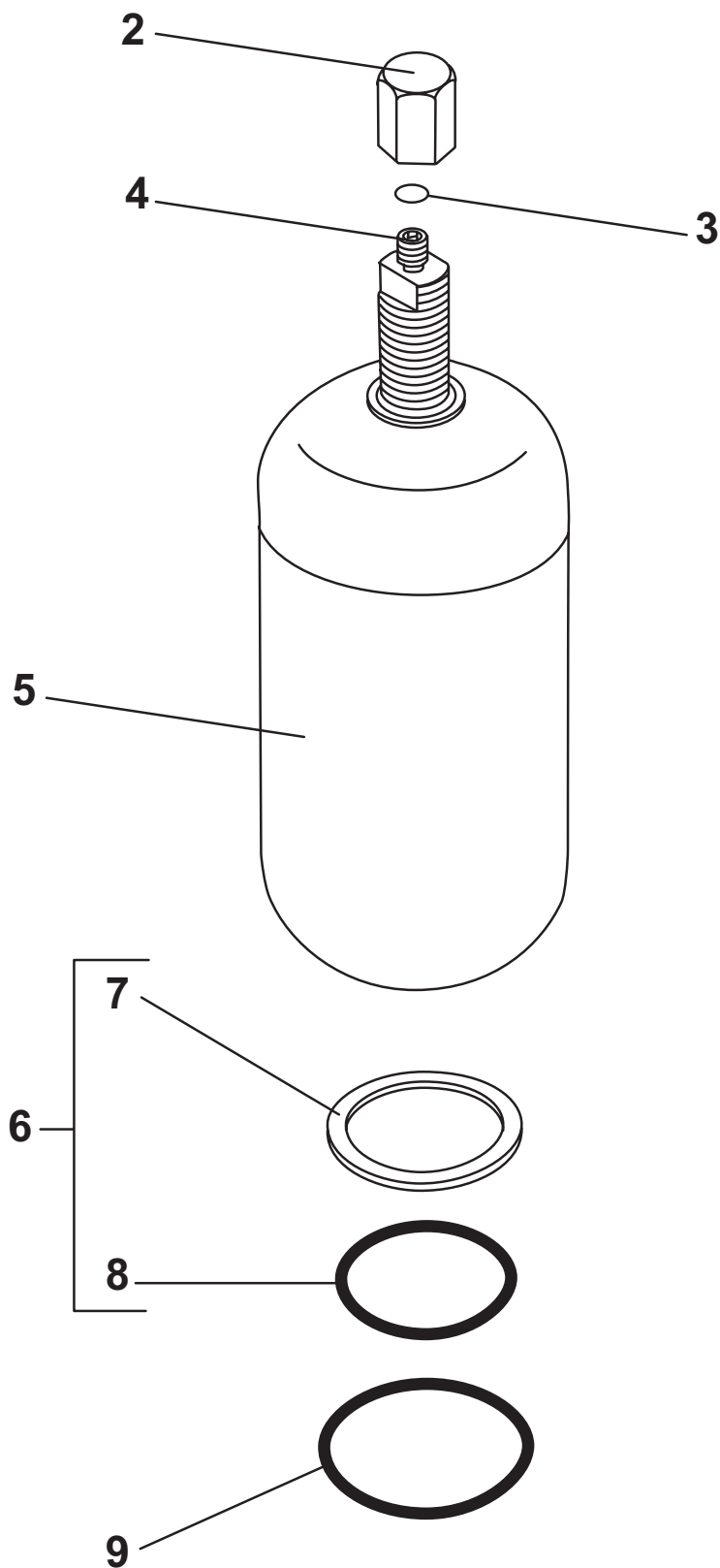
DASH (-) ITEM NOT ILLUSTRATED

REVISION:



ACCUMULATOR BLADDER REPAIR KIT

B20
PARTS
GROUP 30
FIGURE 11
PAGE 01



REVISION:



ACCUMULATOR BLADDER REPAIR KIT

B20
PARTS
GROUP 30
FIGURE 11
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
		1 2 3 4 5	Ref
-1	30-11	Kit, Bladder Repair (Also See Group 30, Figure 10 for NHA)	
2		• Cap, Valve Seal	1
3		• O-Ring	1
4		• Core, Gas Valve	1
5	74516	• Bladder, 1 Gal	1
6	85812	• Kit, Bladder Seal	1
7		• • Ring, Flat	1
8		• • O-Ring	1
9		• Ring, Back Up	1

DASH (-) ITEM NOT ILLUSTRATED

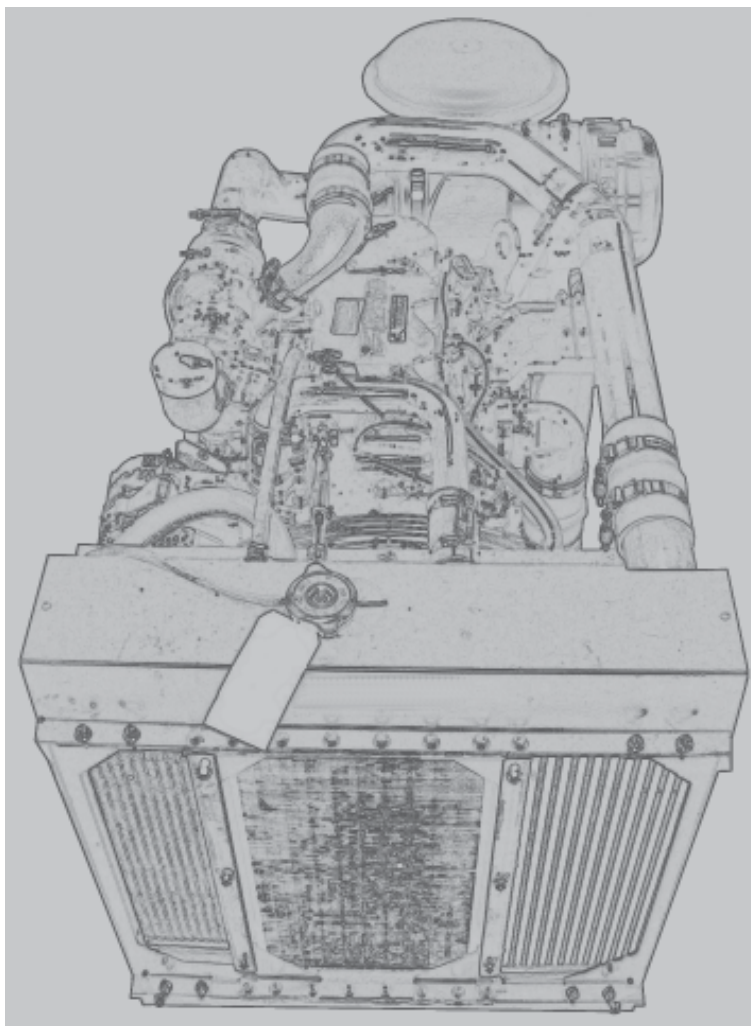
REVISION:



TRAILER MOUNTED PUMP MODEL *B20*
ILLUSTRATED PARTS MANUAL

B20
PARTS
GROUP 30
FIGURE 12
PAGE 01

THIS PAGE INTENTIONALLY LEFT BLANK



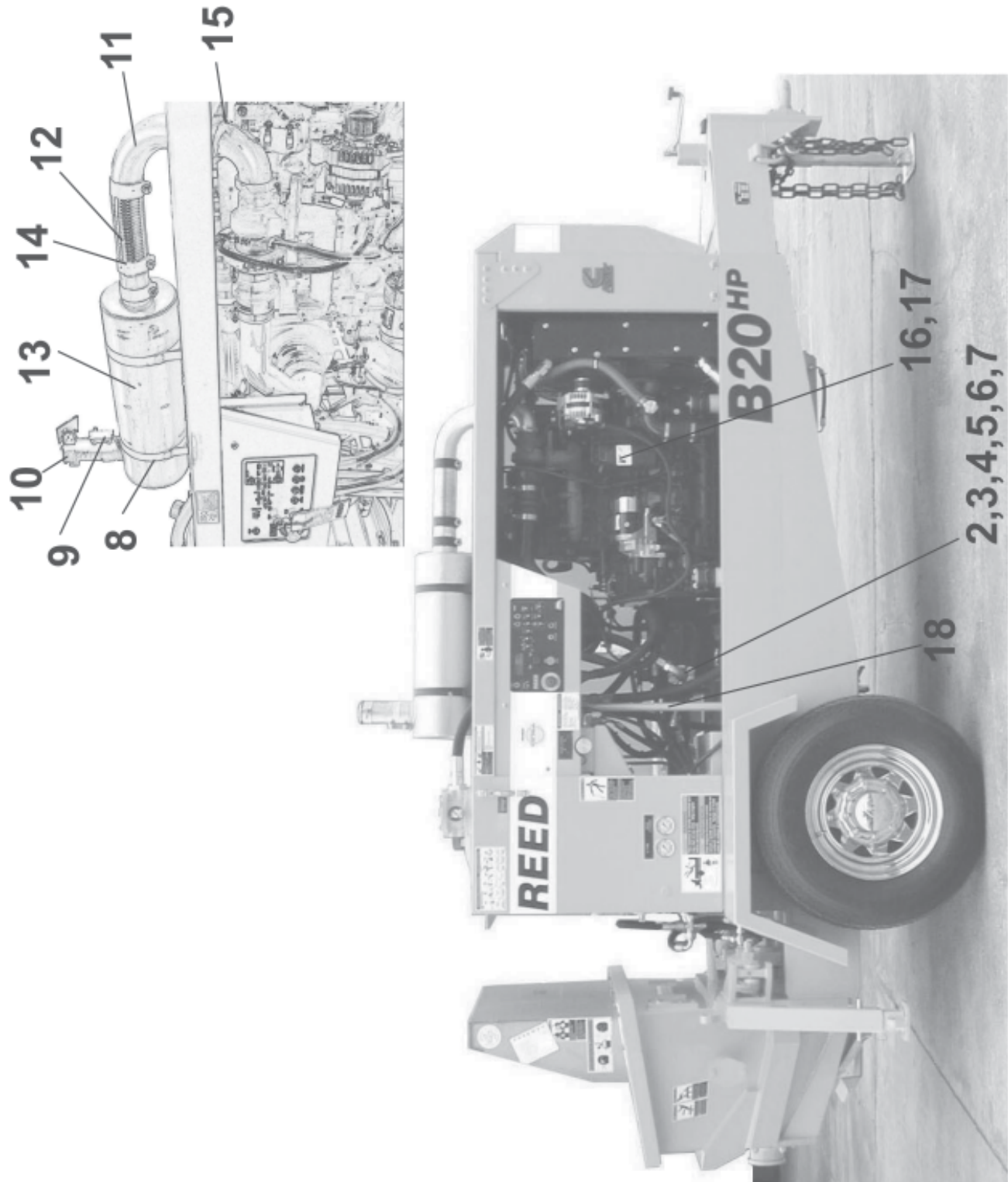
REED TRAILER MOUNTED CONCRETE PUMP MODEL **B20** ILLUSTRATED PARTS MANUAL GROUP 40 POWER TRAIN INSTALLATION CONTAINS THE FOLLOWING FIGURES:

- FIGURE 00** TABLE OF CONTENTS
- FIGURE 01** POWER TRAIN INSTALLATION
- FIGURE 02** HYDRAULIC PUMPS ASSEMBLY
- FIGURE 03** DOUBLE AUXILIARY PUMP ASSEMBLY
- FIGURE 04** MAIN PUMP ASSEMBLY
- FIGURE 05** BATTERY MOUNTING ASSEMBLY



TRAILER MOUNTED PUMP MODEL B20 GROUP 40 POWER TRAIN INSTALLATION

B20
PARTS
GROUP 40
FIGURE 01
PAGE 01



REVISION:



POWER TRAIN INSTALLATION

B20
PARTS
GROUP 40
FIGURE 01
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
-1	40-01	Installation, Power Train (See Group 10, Figure 01, 02, 03 and 04 for NHA)	Ref
2	40-02	• Assembly, Main and Auxiliary Pumps (See Group 40, Figure 02 for DET)	1
3	79803	• Clamp, T-Bolt-3.00 Dia	4
4	86911-009	• Stem, 2 1/2" 90 Deg-40GL-40FL90	2
5	86264-007	• Split Flange-Code 61-40 SAE	2
6	86265-003	• Split Flange-Code 62-20 SAE	1
7	86912-006	• Flange, FLH6K-MJ90-20-16	1
8	87199	• Band, Mounting-8.50 Dia	2
9	87198	• Clamp, Torctite-3.00 Dia	1
10	73475	• Cap, Rain-3.00 Dia	1
11	86648	• Elbow, Exhaust-3.00 Dia	1
12	87579	• Exhaust Flex Tube-3.00 Dia x 12" Long	1
13	87792	• Muffler, B-Series Cummins	1
14	87578	• Clamp, Exhaust- Bent Bolt-3.00 Dia	3
15	77258	• Clamp, Exhaust-3.00 Dia	1
16	87802	• Assembly, Engine (See Vendor Section, Figure 01 for REF)	1
17	87793	• Mount, Fuel Filter	1
18	85426	• Tube, Hydraulic Cylinders	2
19	85428	• Tube, Hydraulic-Shift Cylinder	1
20	85429	• Tube, Hydraulic-Shift Cylinder	1
-21	87797	• Hose Kit-B50/B70 Kawaski/Cummins	1
-22	78608	• Minicheck Hose-48"	1
-23	75456	• Clamp, Tube-Single-1 1/2"	1
-24	800849	• Clamp, Tube-Dual 5/8"	1
-25	73269	• Strap, Ground	1
-26	87541	• Relay, Starter	1
-27	72862	• Gauge, Prox. Sensor Setting	1
-28	87734	• Wiring Harness-Engine	1
-29	40-05	• Assembly, Battery Mounting (See Figure 05 for DET)	1

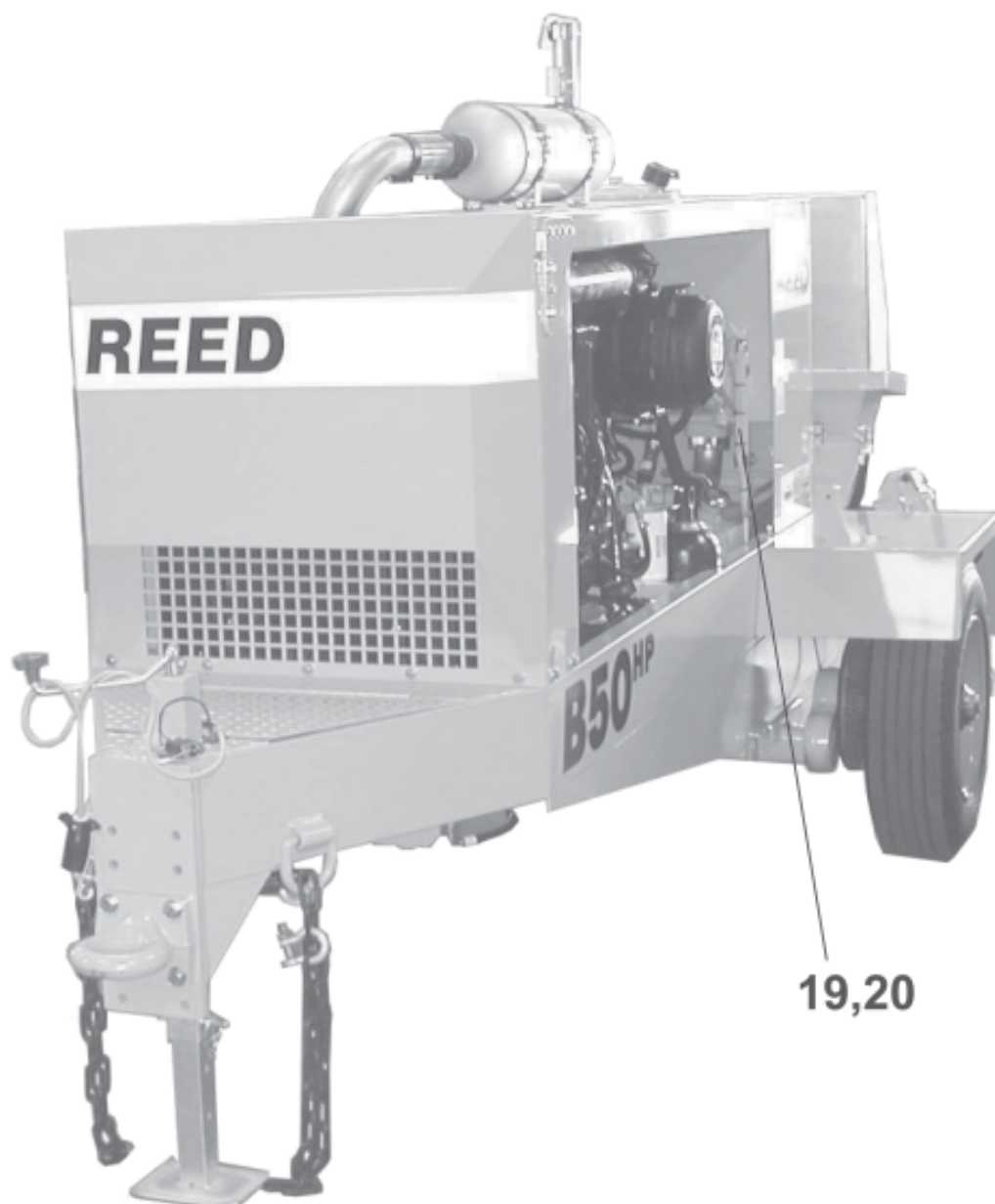
DASH (-) ITEM NOT ILLUSTRATED

REVISION:



POWER TRAIN INSTALLATION

B20
PARTS
GROUP 40
FIGURE 01
PAGE 03



19,20

REVISION:



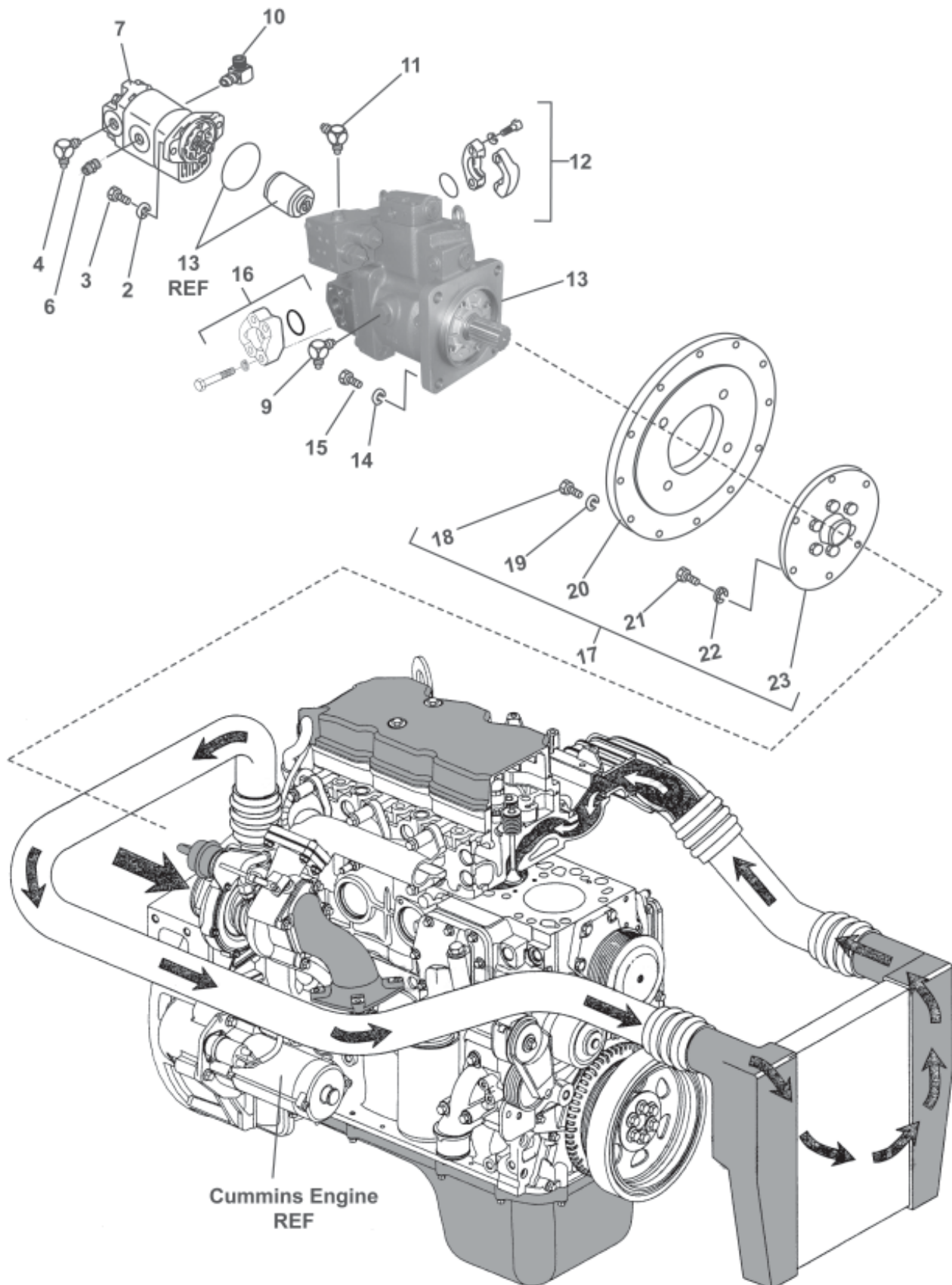
POWER TRAIN INSTALLATION

B20
PARTS
GROUP 40
FIGURE 01
PAGE 04

ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
-1	40-01	1 2 3 4 5 Installation, Power Train (See Group 10, Figure 01, 02, 03 and 04 for NHA)	Ref
2	40-02	• Assembly, Main and Auxiliary Pumps (See Group 40, Figure 02 for DET)	1
3	79803	• Clamp, T-Bolt-3.00 Dia	4
4	86911-009	• Stem, 2 1/2" 90 Deg-40GL-40FL90	2
5	86264-007	• Split Flange-Code 61-40 SAE	2
6	86265-003	• Split Flange-Code 62-20 SAE	1
7	86912-006	• Flange, FLH6K-MJ90-20-16	1
8	87199	• Band, Mounting-8.50 Dia	2
9	87198	• Clamp, Torctite-3.00 Dia	1
10	73475	• Cap, Rain-3.00 Dia	1
11	86648	• Elbow, Exhaust-3.00 Dia	1
12	87579	• Exhaust Flex Tube-3.00 Dia x 12" Long	1
13	87792	• Muffler, B-Series Cummins	1
14	87578	• Clamp, Exhaust- Bent Bolt-3.00 Dia	3
15	77258	• Clamp, Exhaust-3.00 Dia	1
16	87802	• Assembly, Engine (See Vendor Section, Figure 01 for REF)	1
17	87793	• Mount, Fuel Filter	1
18	85426	• Tube, Hydraulic Cylinders	2
19	85428	• Tube, Hydraulic-Shift Cylinder	1
20	85429	• Tube, Hydraulic-Shift Cylinder	1
-21	87797	• Hose Kit-B50/B70 Kawasaki/Cummins	1
-22	78608	• Minicheck Hose-48"	1
-23	75456	• Clamp, Tube-Single-1 1/2"	1
-24	800849	• Clamp, Tube-Dual 5/8"	1
-25	73269	• Strap, Ground	1
-26	87541	• Relay, Starter	1
-27	72862	• Gauge, Prox. Sensor Setting	1
-28	87734	• Wiring Harness-Engine	1
-29	40-05	• Assembly, Battery Mounting (See Figure 05 for DET)	1

DASH (-) ITEM NOT ILLUSTRATED

REVISION:



HYDRAULIC PUMPS ASSEMBLY

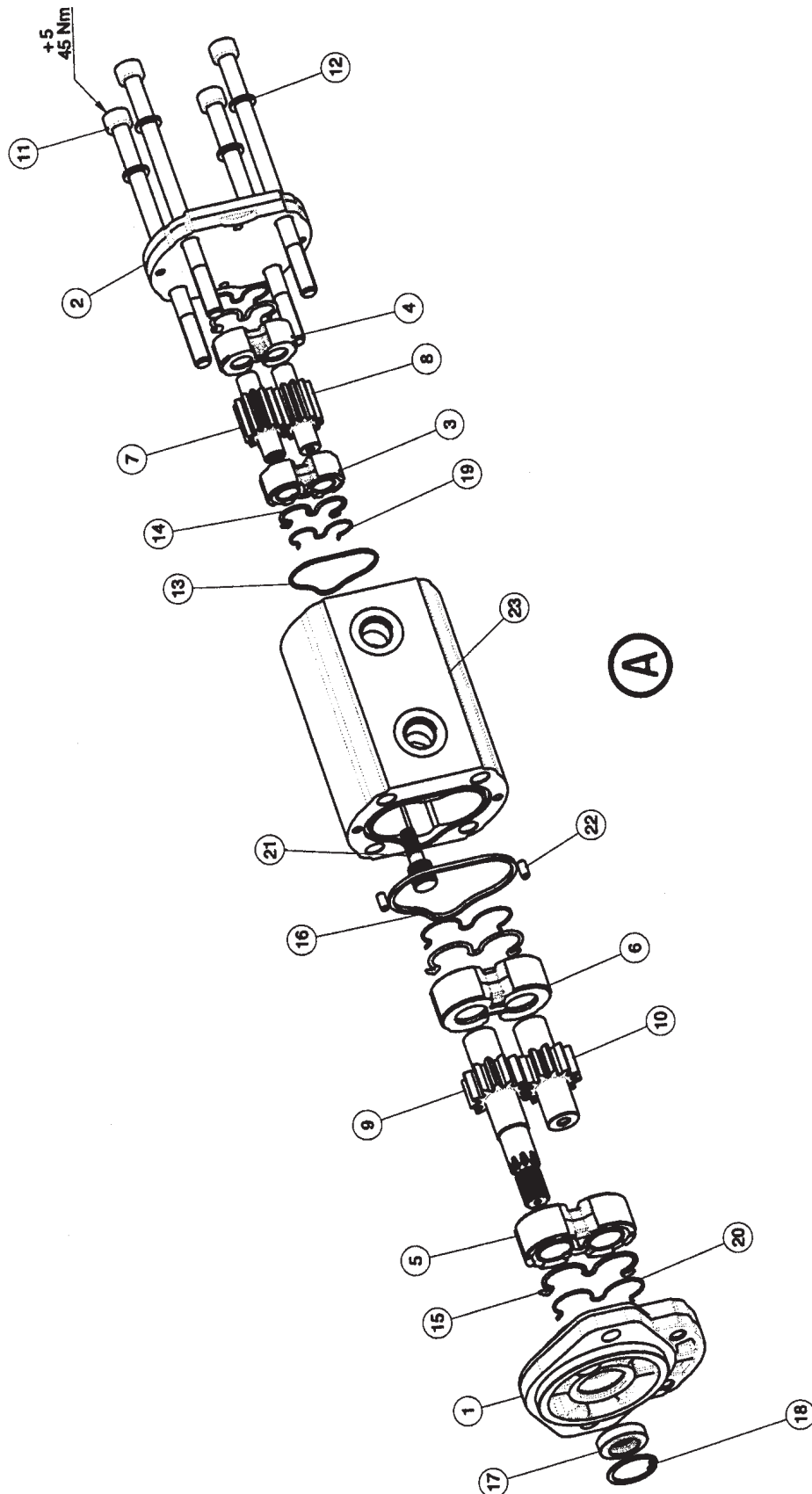
ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
-1	40-02	1 2 3 4 5 Assembly, Hydraulic Pump (See Group 40, Figure 01 for NHA)	Ref
2		• Washer, Lock	2
3		• Bolt, Hex	2
4	86728-014	• Fitting, Elbow MB-MJ90-10-10	1
5	87571	• Assembly, Double Auxiliary Pump (See Group 40, Figure 04 for DET)	1
6	86900-017	• Fitting, Adaptor MB-MJ-10-10	1
7	86912-006	• Stem ML90-20-16	1
8	86911-009	• Stem ML90-40-40	1
9	NPN	• Fitting, Elbow MB-MJ90-12-10	1
10	86728-023	• Fitting, Elbow MB-MJ90-16-16	1
11	NPN	• Fitting, Elbow MB-MJ90-4-6	1
12	86264-007	• Kit, Split Flange-Code 61-40SAE	1
13	87723	• Assembly, Main Pump (See Group 40, Figure 05 for DET) (Also See Vendor Section, Figure 02 for REF)	1
14		• Washer, Lock (attaching parts)	4
15		• Bolt, Hex (attaching parts)	4
16	86265-003	• Kit, Split Flange-Code 62-20SAE	1
17	87360	• Assembly, Flywheel Coupling (Pump Drive)	1
18		• • Bolt, Hex	12
19		• • Washer, SPL	12
20		• • Plate, Flywheel	1
21		• • Screw	6
22		• • Washer	6
23		• • Drive, Flywheel	1

DASH (-) ITEM NOT ILLUSTRATED



DOUBLE AUXILIARY PUMP ASSEMBLY

B20
PARTS
GROUP 40
FIGURE 03
PAGE 01



REVISION:



DOUBLE AUXILIARY PUMP ASSEMBLY

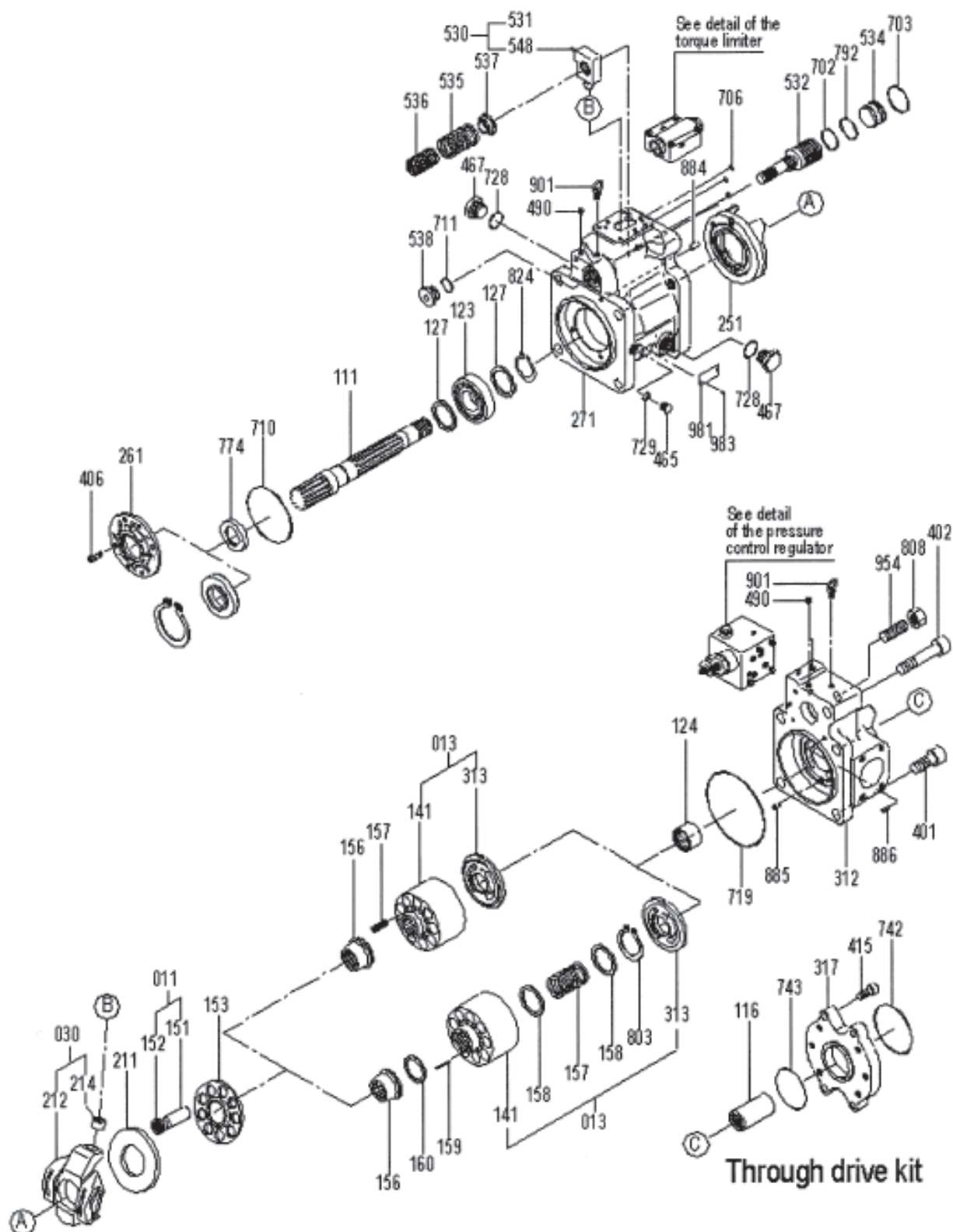
B20
PARTS
GROUP 40
FIGURE 03
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
A	PN 87571	• Assembly, Double Auxiliary Pump (See Group 40, Figure 02 for NHA)	Ref
1		• Cover, Front	1
2		• Cover, Twin Rear	1
3		• Plate, Thrust	1
4		• Plate, Thrust	1
5		• Plate, Thrust	1
6		• Plate, Thrust	1
7		• Gear, Drive	1
8		• Gear, Driven	1
9		• Shaft, Drive	1
10		• Shaft, Driven	1
11		• Screw	4
12		• Washer	4
13		• O-Ring	1
14		• Seal	2
15		• Seal	2
16		• Plate, Seal	1
17		• Seal, Shaft	1
18		• Ring	1
19		• Plate, Anti-Intrusion	2
20		• Ring, Back-up	2
21		• Hub	1
22		• Pin, Dowel	2
23		• Body	1

REVISION:

KAWASAKI MODEL K3VL MAIN PUMP ASSEMBLY

B20
PARTS
 GROUP 40
 FIGURE 04
 PAGE 01





KAWASAKI MODEL K3VL MAIN PUMP ASSEMBLY

B20
PARTS
GROUP 40
FIGURE 04
PAGE 02

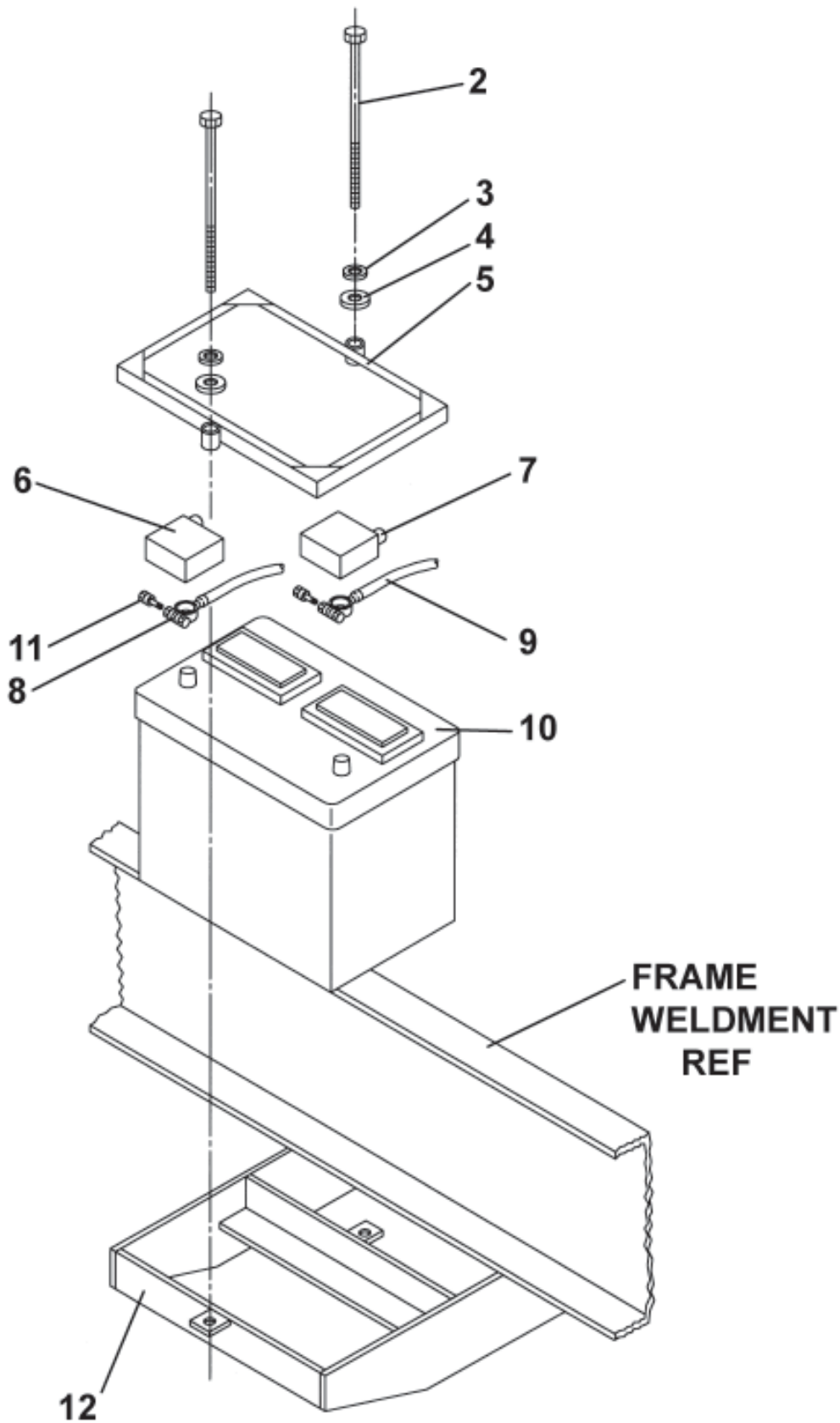
ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
1	PN 87723	1 2 3 4 5 • Assembly, Main Hydraulic Pump (See Vendor Section, Figure 02 for Complete Info)	Ref

REVISION:



BATTERY MOUNT
ASSEMBLY

B20
PARTS
GROUP 40
FIGURE 05
PAGE 01



REVISION:



BATTERY MOUNT ASSEMBLY

B20
PARTS
GROUP 40
FIGURE 05
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
-1	40-06	1 2 3 4 5 Assembly, Battery Mounting (See Group 40, Figure 01 for NHA)	Ref
2		• Bolt, Hex	2
3		• Washer, Lock	2
4		• Washer, Flat	2
5	72945	• Holder, Battery Dopwn	1
6	87221	• Insulator, Negative Battery (Red)	1
7	87222	• Insulator, Positive Battery (Black)	1
8	72014	• Cable, Negative Battery (Red)	1
9	75116	• Cable, Positive Battery (Black)	1
10	77075	• Battery, 12 VDC	1
11	87223	• Extender, Top Terminal Bolt	2
12	86240	• Weldment, Battery Box	1
-13	87541	• Relay, Starter	1
-14	87544	• Bracket, Starter Relay Mount	1

DASH (-) ITEM NOT ILLUSTRATED

REVISION:



**TRAILER MOUNTED PUMP MODEL *B20*
ILLUSTRATED PARTS MANUAL**

B20
PARTS
GROUP 40
FIGURE 06
PAGE 01

THIS PAGE INTENTIONALLY LEFT BLANK

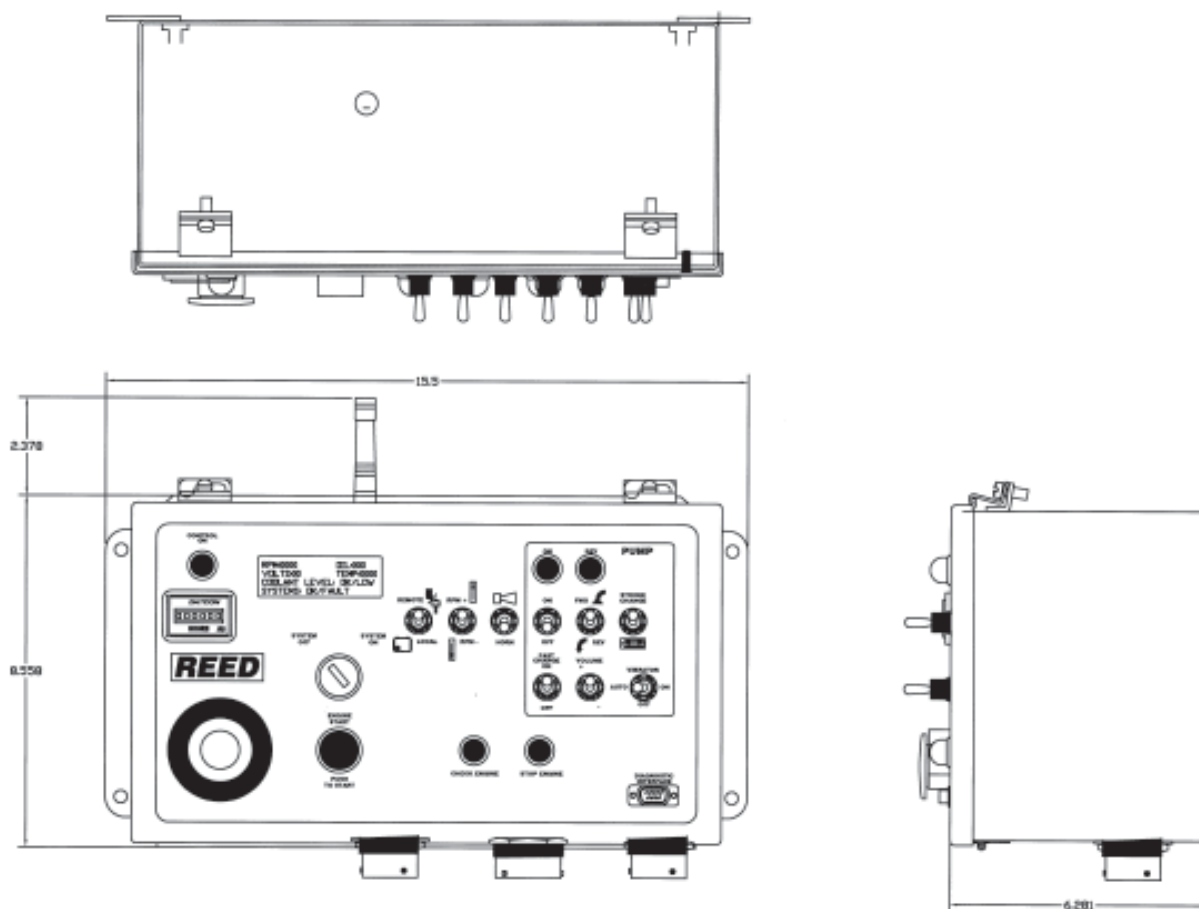


TRAILER MOUNTED PUMP MODEL B20 GROUP 50 CONTROLS INSTALLATION

B20
PARTS
GROUP 50
FIGURE 00
PAGE 00

REED TRAILER MOUNTED CONCRETE PUMP MODEL **B20** 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	50 FEET CABLE REMOTE CONTROL ASSEMBLY
FIGURE	04	100 FEET CABLE REMOTE CONTROL ASSEMBLY
FIGURE	05	RADIO REMOTE CONTROL TRANSMITTER ASSEMBLY

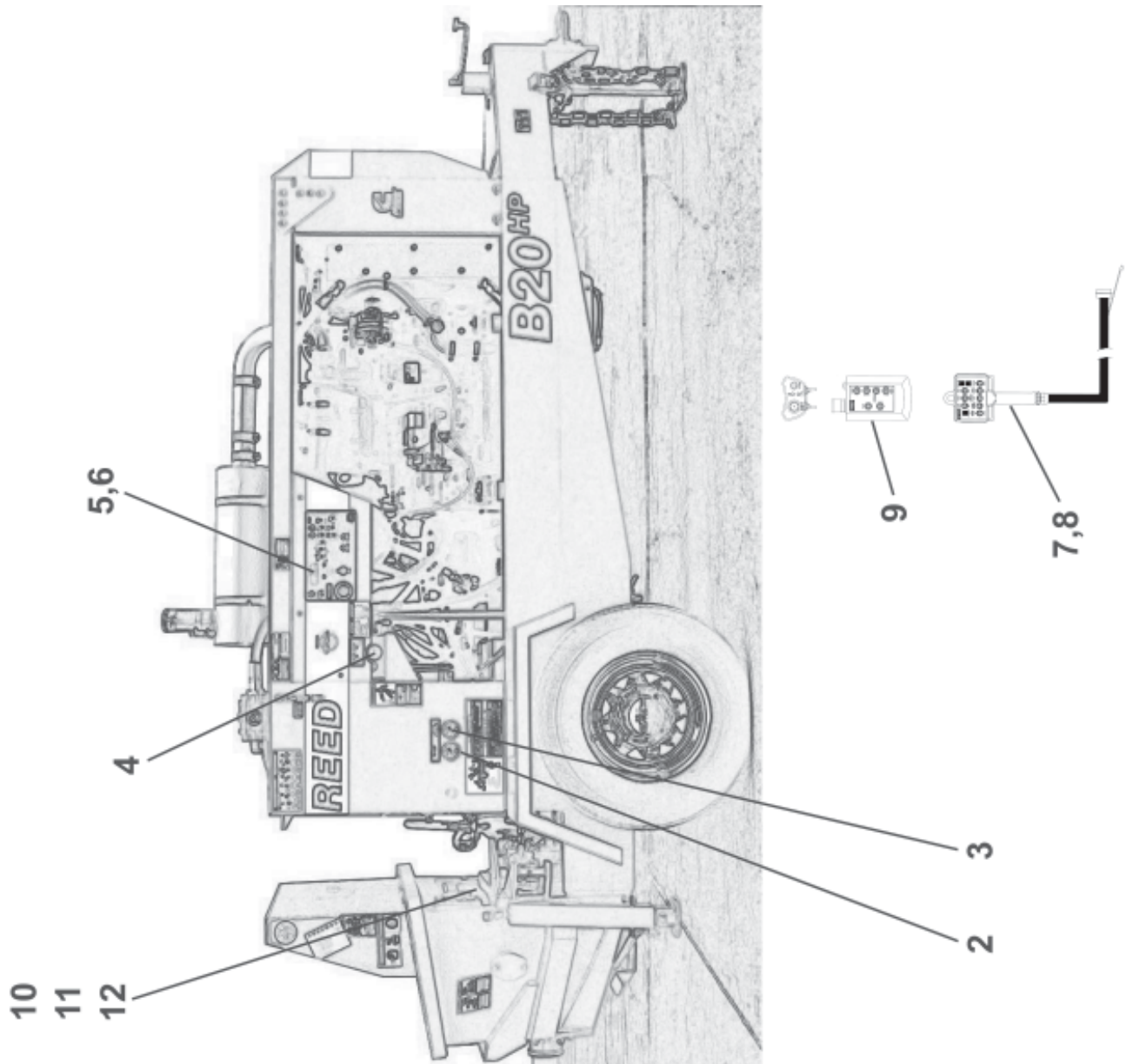


REVISION:



CONTROL INSTALLATION

B20
PARTS
GROUP 50
FIGURE 01
PAGE 01



REVISION:



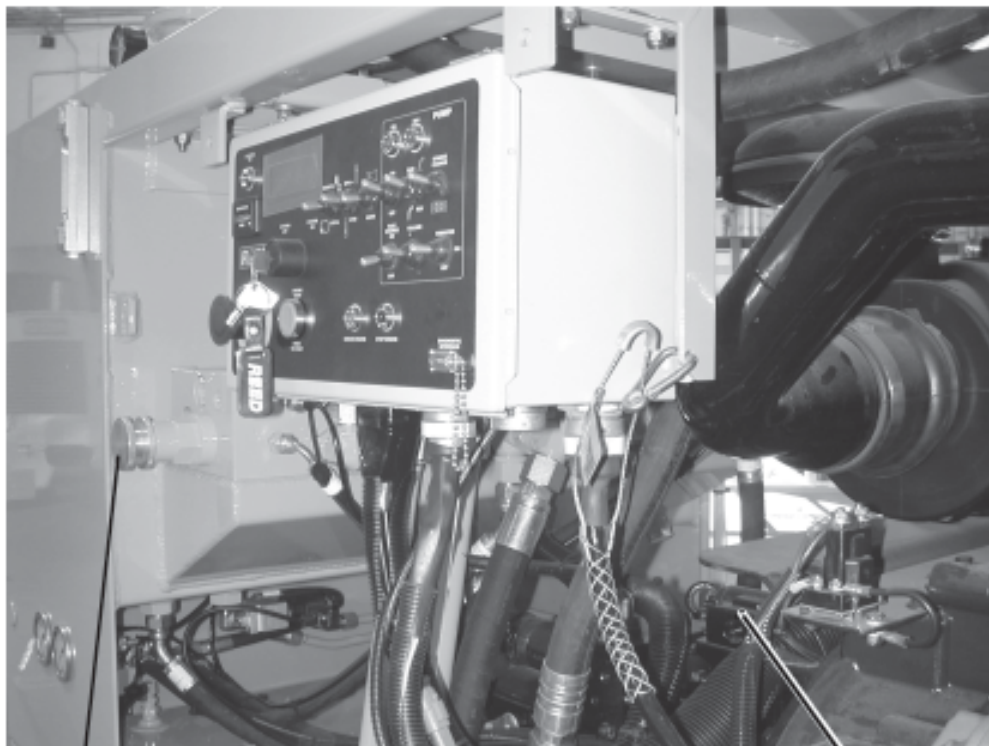
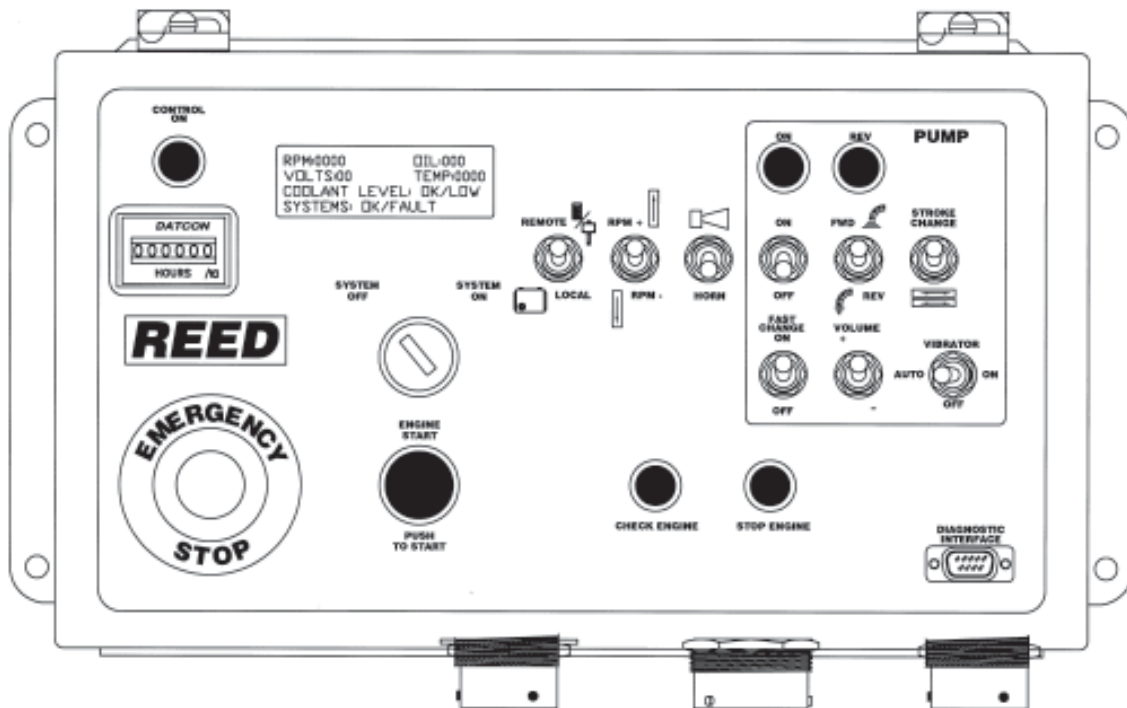
CONTROL INSTALLATION

B20
PARTS
GROUP 50
FIGURE 01
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION					QTY
		1	2	3	4	5	
-1	50-01	Installation, Control (See Group 10, Figure 01, 02, 03, and 04 for NHA)					Ref
2	70366	• Gauge, 3,000 PSI Hydraulic (See Group 30, Figure 02 for REF)					1
3	74562	• Gauge, 6,000 PSI Hydraulic (See Group 30, Figure 02 for REF)					1
4	85697	• Cartridge, Flow Control Valve (See Group 30, Figure 07 for REF)					1
5	800347	• Horn, 12 V					1
6	87346-2	• Assembly, Control Box (See Group 50, Figure 02 for DET)					1
7	87347-1	• Assembly, 50 Feet Cable Remote Control (See Group 50, Figure 03 for DET)					1
8	NPN	• Assembly, 100 Feet Cable Remote Control (See Group 50, Figure 04 for DET)					1
9	87348-1	• Assembly, Radio Remote Control (Optional Item) (See Group 50, Figure 05 for DET)					1
10	20-09	• Assembly, 3 Spool Control Valve (Optional Item) (See Group 20, Figure 08 for REF)					1
11	80-16	• Assembly, 1 Spool Control Valve (Optional Item) (See Group 80, Figure 16 for REF)					1
12	80-18	• Assembly, 2 Spool Control Valve (Optional Item) (See Group 80, Figure 18 for REF)					1

DASH (-) ITEM NOT ILLUSTRATED

REVISION:



CONTROL BOX WITH COVER REMOVED

VOLUME CONTROL

MAIN HYDRAULIC PUMP



CONTROL BOX ASSEMBLY

B20
PARTS
GROUP 50
FIGURE 02
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
-1	87346-2	1 2 3 4 5 Assembly, Control Box (See Group 50, Figure 01 for NHA)	Ref
2		•	
3		•	
4		•	
5		•	
6		•	
7		•	
8		•	
9		•	
10		•	
11		•	
12		•	
13		•	
14		•	
15		•	
16		•	
17		•	
18		•	
19		•	
20		•	

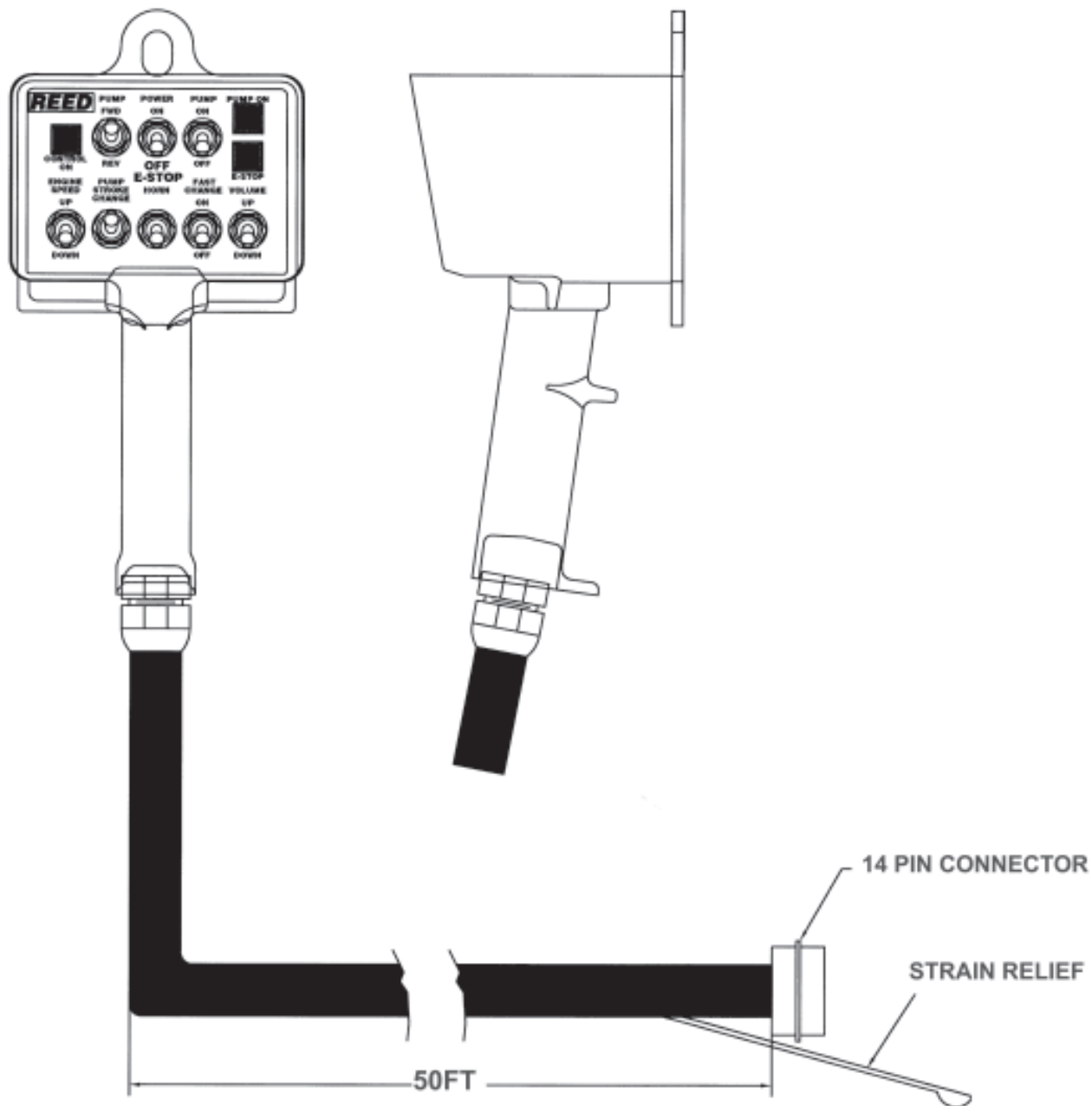
DASH (-) ITEM NOT ILLUSTRATED

REVISION:



50 FEET CABLE REMOTE CONTROL ASSEMBLY

B20
PARTS
GROUP 50
FIGURE 03
PAGE 01



REVISION:



50 FEET CABLE REMOTE CONTROL ASSEMBLY

B20
PARTS
GROUP 50
FIGURE 03
PAGE 02

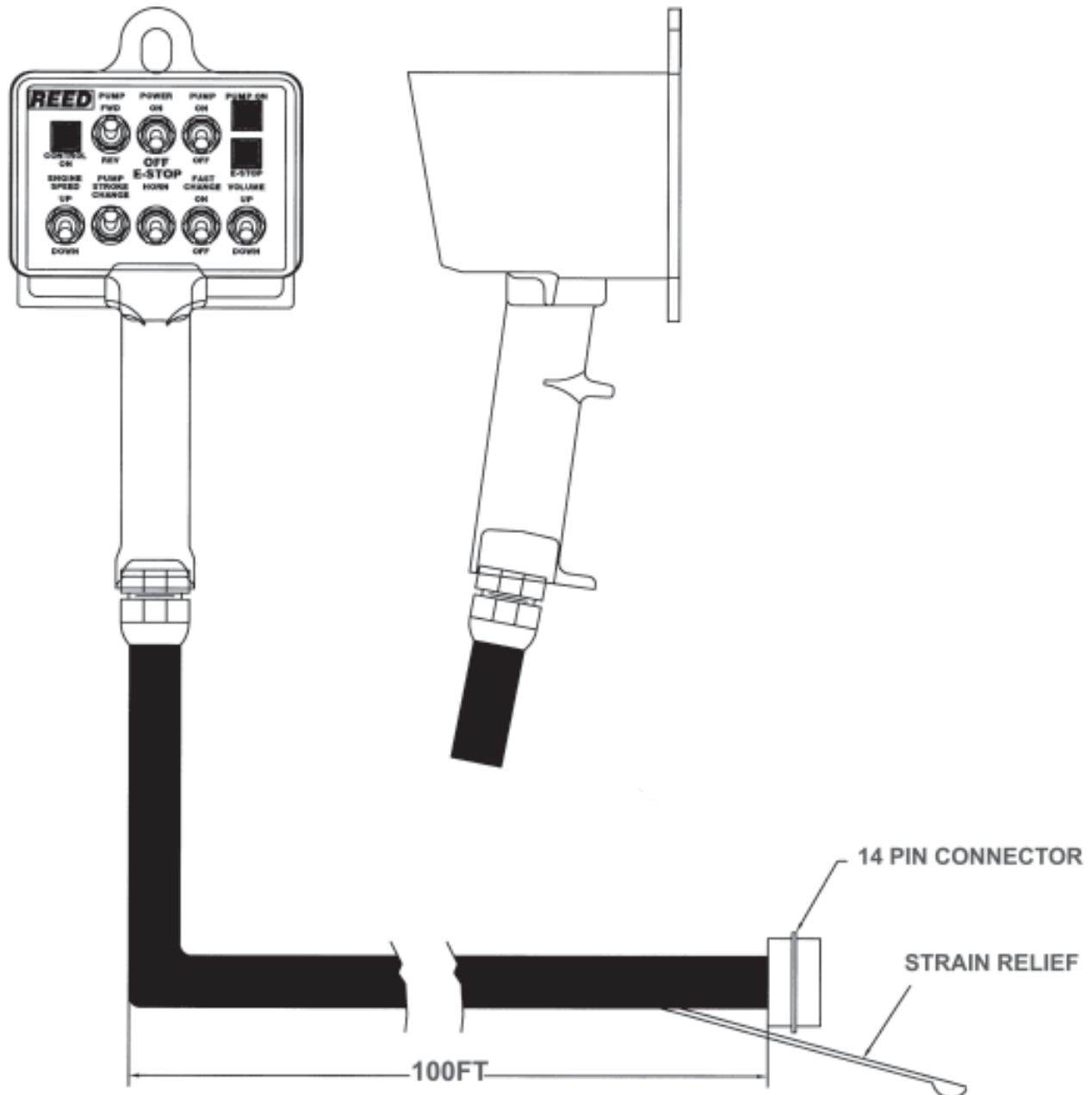
ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
-1	87347-1	1 2 3 4 5 Assembly, 50 Feet Cable Remote Control (See Group 50, Figure 01 for NHA)	Ref
2		•	
3		•	
4		•	
5		•	
6		•	
7		•	
8		•	
9		•	
10		•	
11		•	
12		•	

DASH (-) ITEM NOT ILLUSTRATED

REVISION:

100 FEET CABLE REMOTE CONTROL ASSEMBLY

B20
PARTS
GROUP 50
FIGURE 04
PAGE 01





100 FEET CABLE REMOTE CONTROL ASSEMBLY

B20
PARTS
GROUP 50
FIGURE 04
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION					QTY
		1	2	3	4	5	
-1	NPN	Assembly, 100 Feet Cable Remote Control (See Group 50, Figure 01 for NHA)					Ref
2		•					
3		•					
4		•					
5		•					
6		•					
7		•					
8		•					
9		•					
10		•					
11		•					
12		•					

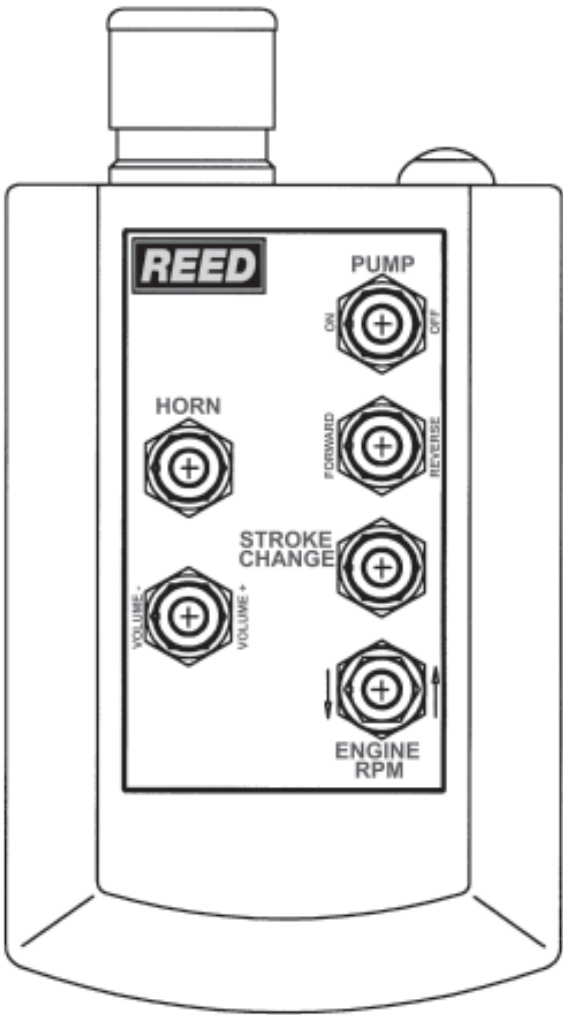
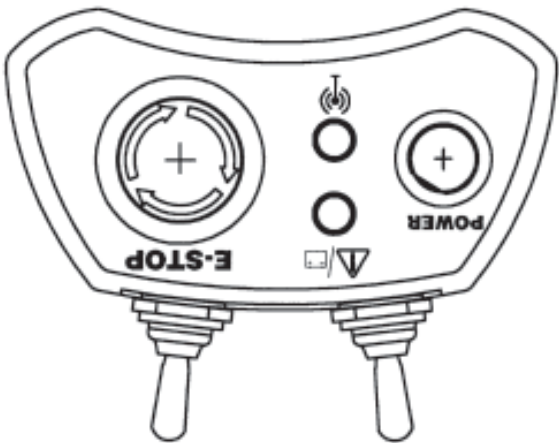
DASH (-) ITEM NOT ILLUSTRATED

REVISION:



OPTIONAL RADIO REMOTE
TRANSMITTER ASSEMBLY

B20
PARTS
GROUP 50
FIGURE 05
PAGE 01





OPTIONAL RADIO REMOTE CONTROL
TRANSMITTER ASSEMBLY

B20
PARTS
GROUP 50
FIGURE 05
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION					QTY
		1	2	3	4	5	
-1	87348-1	Assembly, Transmitter, Remote Control (See Group 50, Figure 01 for NHA)					Ref
2		•					
3		•					
4		•					
5		•					
6		•					
7		•					
8		•					
9		•					
10		•					
11		•					
12		•					

DASH (-) ITEM NOT ILLUSTRATED



**OPTIONAL RADIO REMOTE
CONTROL ASSEMBLY**

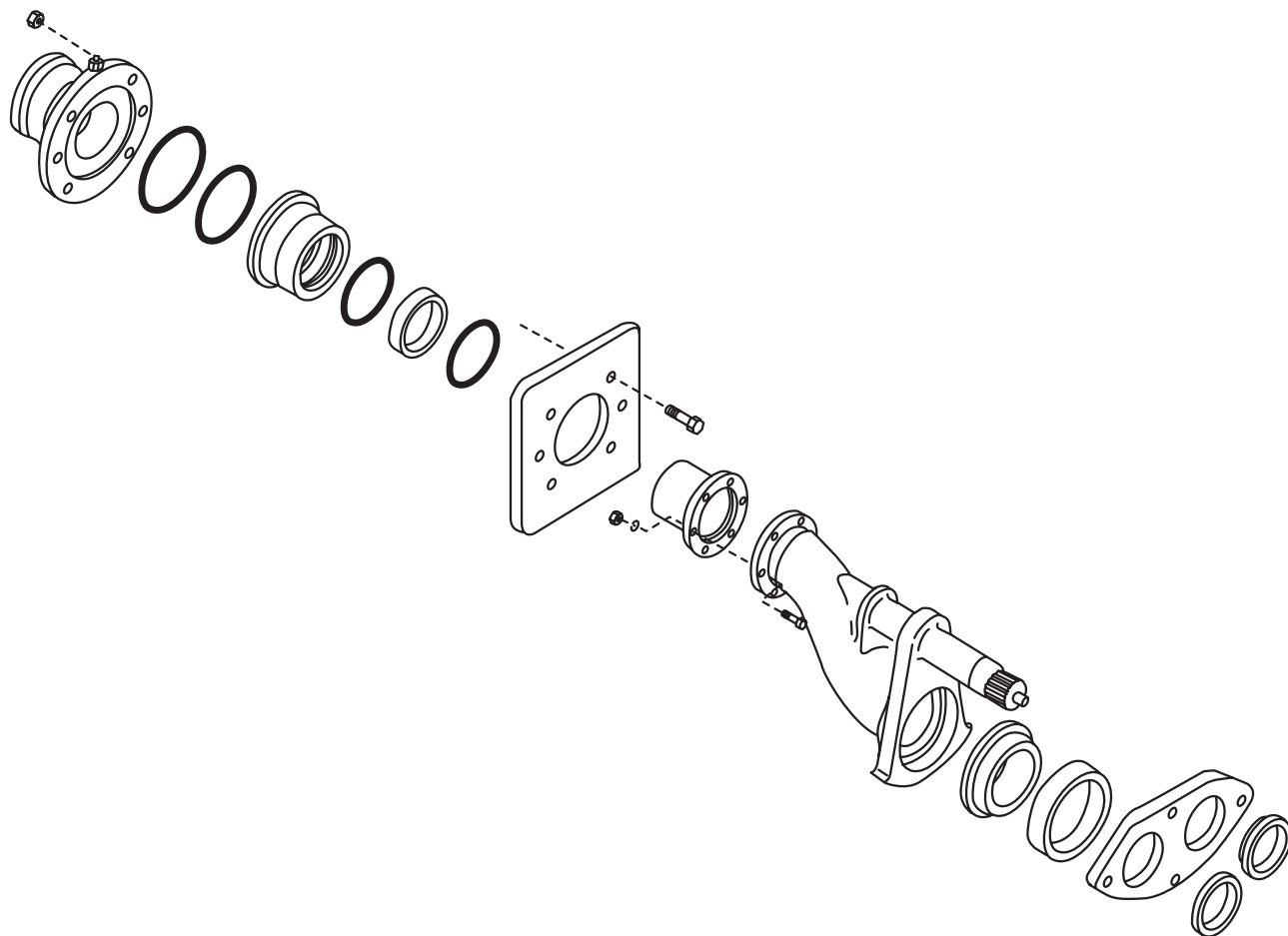
B20
PARTS
GROUP 50
FIGURE 06
PAGE 01

THIS PAGE INTENTIONALLY LEFT BLANK



TRAILER MOUNTED PUMP MODEL *B20* GROUP 60 PUMPING TRAIN INSTALLATION

B20
PARTS
GROUP 60
FIGURE 00
PAGE 01



REED TRAILER MOUNTED CONCRETE PUMP MODEL *B20* ILLUSTRATED
PARTS MANUAL GROUP 60 PUMPING TRAIN INSTALLATION CONTAINS THE
FOLLOWING FIGURES:

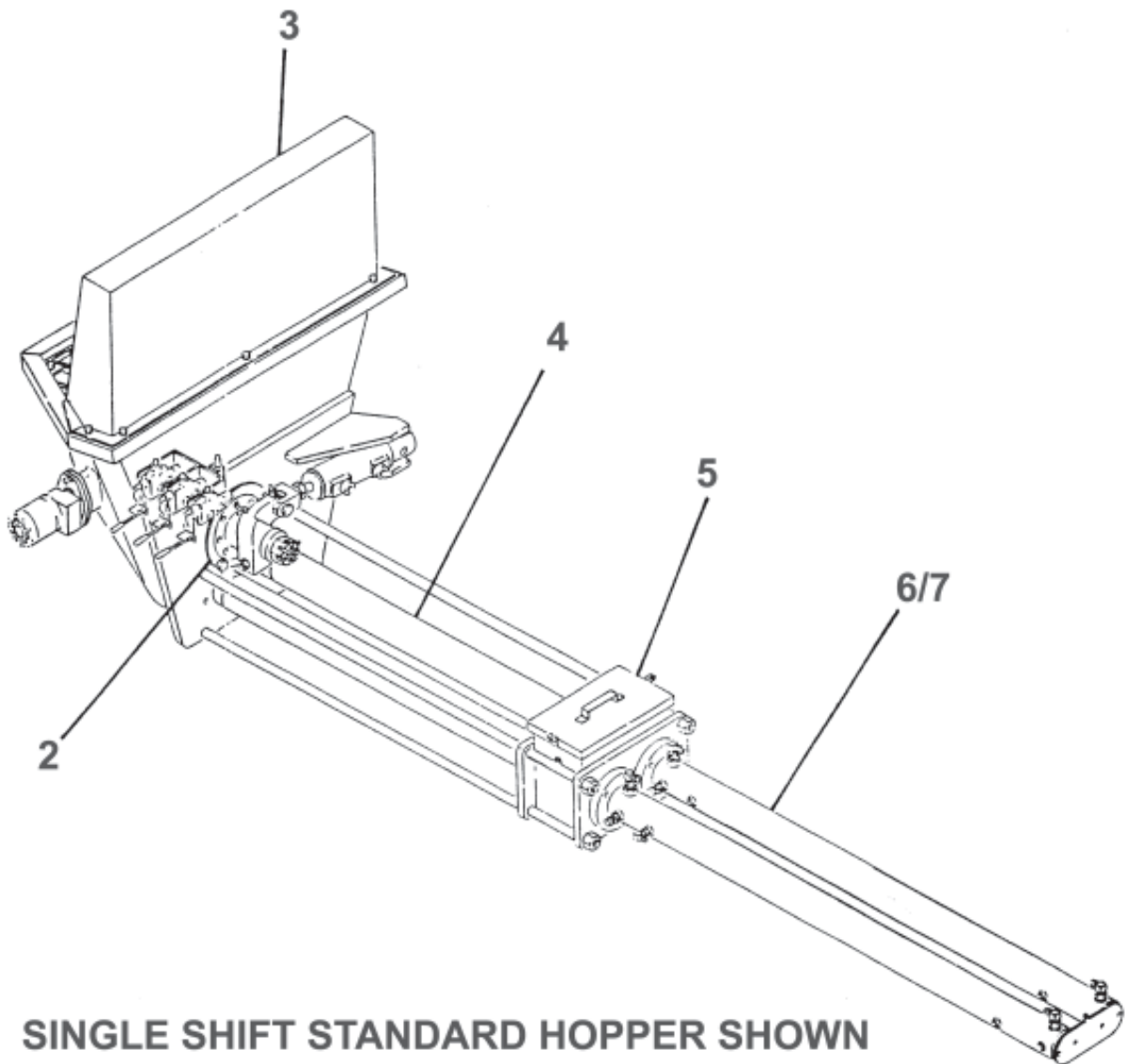
FIGURE	00	TABLE OF CONTENTS
FIGURE	01	SINGLE SHIFT PUMPING TRAIN INSTALLATION
FIGURE	02	DUAL SHIFT PUMPING TRAIN INSTALLATION
FIGURE	03	SINGLE SHIFT SWING VALVE ASSEMBLY
FIGURE	04	DUAL SHIFT SWING VALVE ASSEMBLY
FIGURE	05	SINGLE SHIFT SWING RAM CYLINDER SUB-ASSEMBLY
FIGURE	06	DUAL SHIFT SWING RAM CYLINDER SUB-ASSEMBLY
FIGURE	07	MATERIAL CYLINDER ASSEMBLY
FIGURE	08	FLUSHBOX ASSEMBLY
FIGURE	09	HYDRAULIC DRIVE CYLINDER ASSEMBLY
FIGURE	10	HYDRAULIC DRIVE CYLINDER SUB-ASSEMBLY

REVISION:



SINGLE SHIFT PUMPING TRAIN INSTALLATION

B20
PARTS
GROUP 60
FIGURE 01
PAGE 01



REVISION:

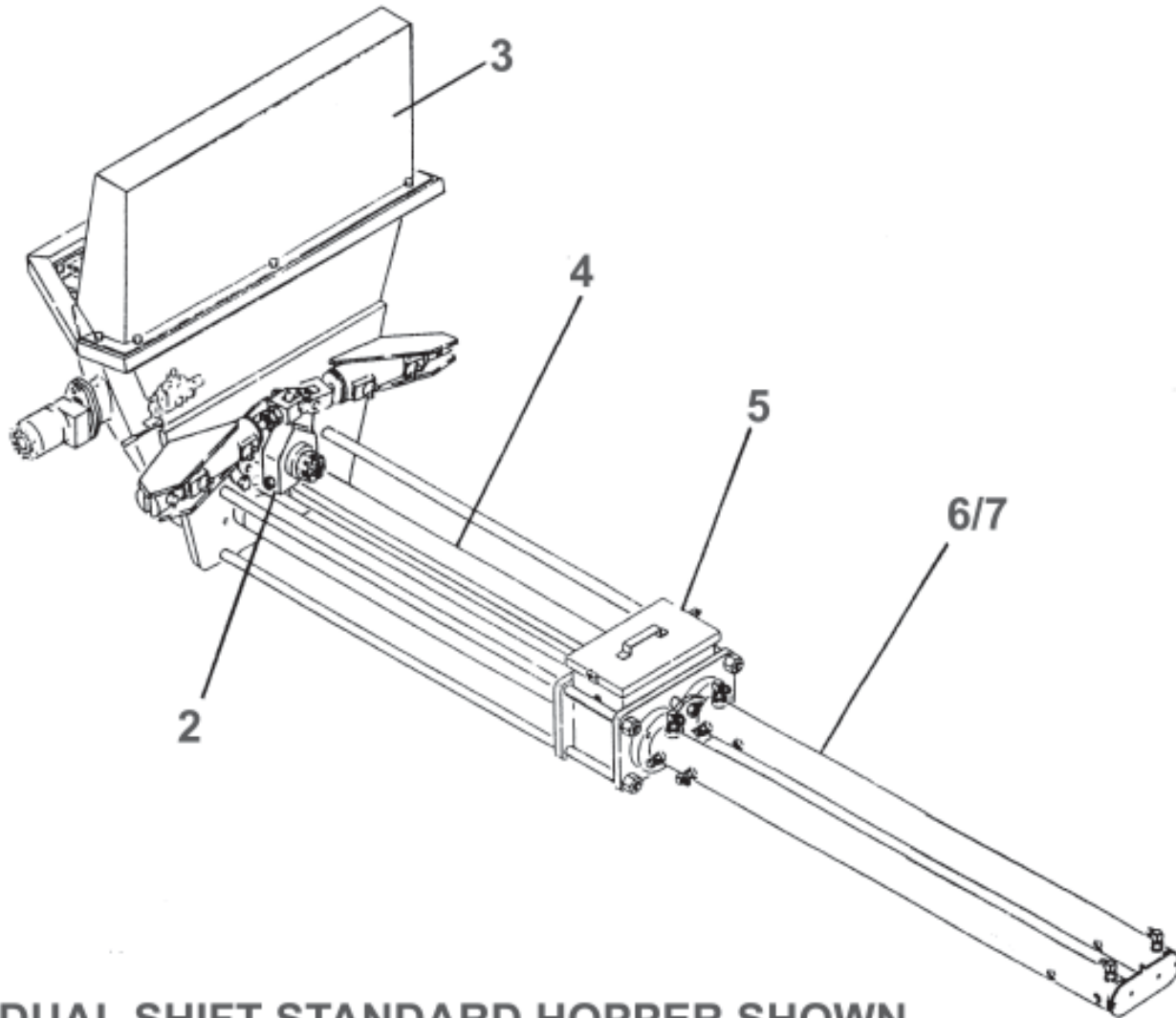


SINGLE SHIFT PUMPING TRAIN INSTALLATION

B20
PARTS
GROUP 60
FIGURE 01
PAGE 02

ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	60-01	Installation, (Single Shift)Pumping Train (See Group 10, Figure 01 and Figure 02 for NHA)	Ref
2	60-03	• Assembly, Single Shift Swing Valve (See Group 60, Figure 03 for DET)	1
3	20-01	• Installation, Standard Hopper (86803 Hopper Weldment) (See Group 20, Figure 01 for REF)	Ref
4	60-07	• Assembly, Material Cylinder (See Group 60, Figure 07 for DET)	Ref
5	60-08	• Assembly, Flushbox (See Group 60, Figure 08 for DET)	1
6	60-09	• Assembly, Hydraulic Drive Cylinder (See Group 60, Figure 09 for DET)	1
7	60-10	• Sub-Assembly, Hydraulic Drive Cylinder (See Group 60, Figure 10 for DET)	1

REVISION:



DUAL SHIFT STANDARD HOPPER SHOWN

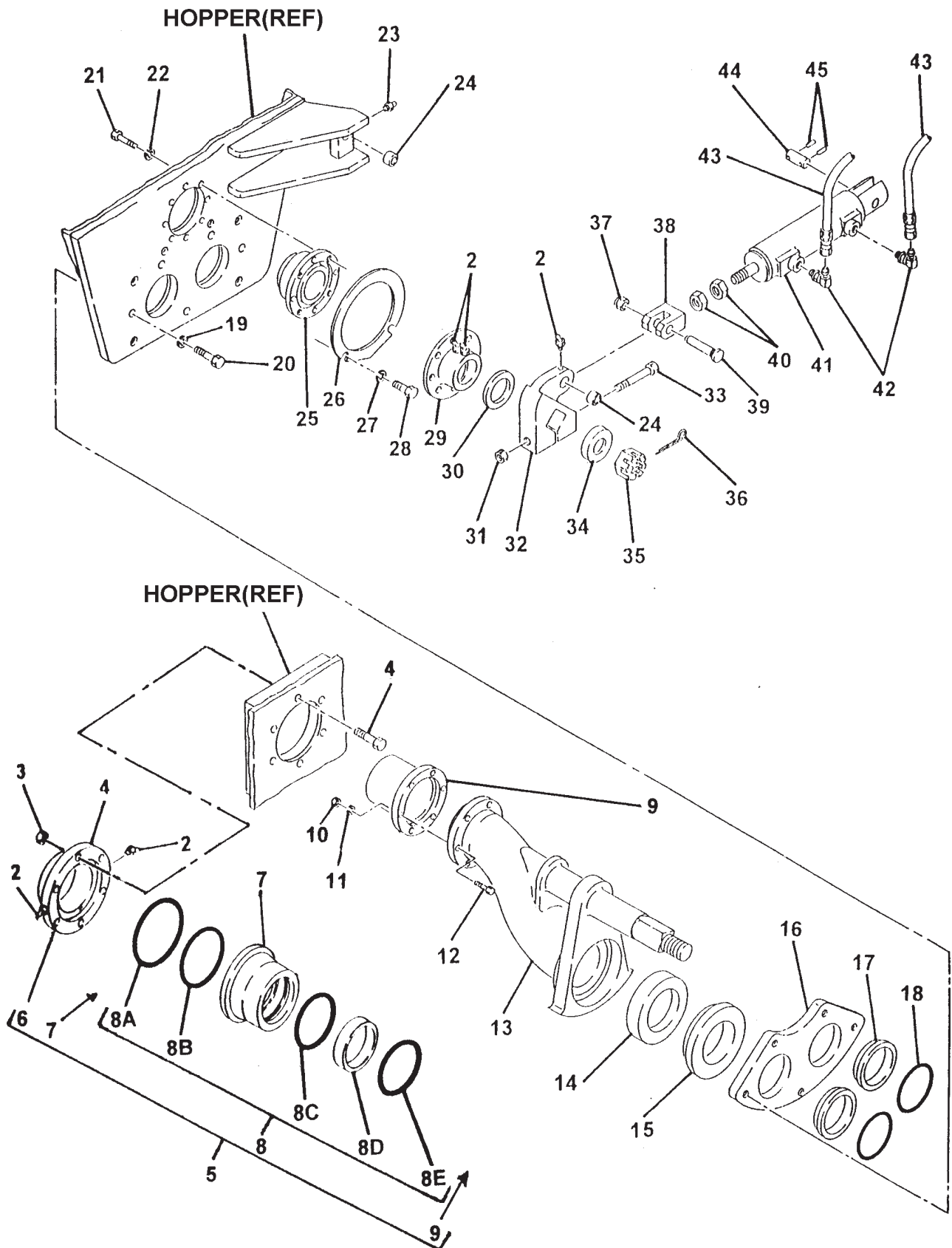


DUAL SHIFT PUMPING TRAIN INSTALLATION

B20
PARTS
GROUP 60
FIGURE 02
PAGE 02

ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	60-02	Installation, Pumping(Dual Shift)Train (See Group 10, Figure 01 and Figure 02 for NHA)	Ref
2	60-04	• Assembly, Dual Shift Swing Valve (See Group 60, Figure 04 for DET)	1
3	20-01	• Installation, Standard Reinforced Hopper (87099 Hopper) (See Group 20, Figure 01 for REF)	Ref
4	60-04	• Assembly, Concrete Cylinder (See Group 60, Figure 04 for DET)	Ref
5	60-05	• Assembly, Flushbox (See Group 60, Figure 05 for DET)	1
6	60-06	• Assembly, Hydraulic Drive Cylinder (See Group 60, Figure 05 for DET)	1
7	60-07	• Sub-Assembly, Hydraulic Drive Cylinder (See Group 60, Figure 07 for DET)	1

REVISION:



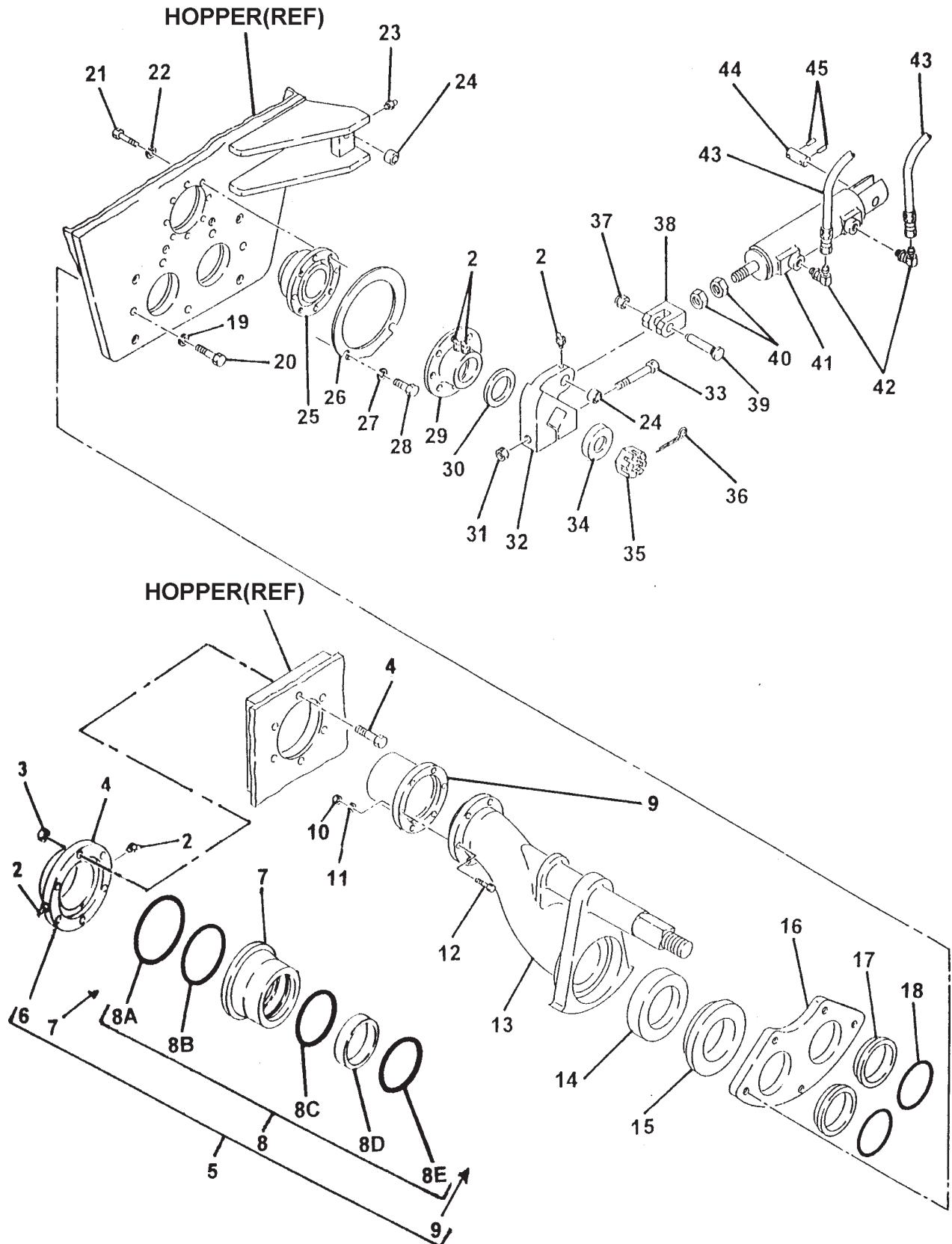


SINGLE SHIFT SWING VALVE ASSEMBLY

B20
PARTS
GROUP 60
FIGURE 03
PAGE 02

ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	60-03	Assembly, Single Shift Swing Valve (See Group 60, Figure 01 for NHA)	Ref
2		• Fitting, Grease	5
3		• Nut	6
4		• Bolt, Hex	6
5	86617	• Kit, 4 Inch-Outlet Kit	1
6	86336	• Outlet, 4 Inch	1
7	86335	• • Housing, 4 Inch Outlet Seal	1
8	86621	• • Kit, 4 Inch Outlet Seal	1
8A	86370	• • • O-Ring, Large	1
8B	86369	• • • O-Ring, Small	1
8C	86614	• • • Seal, Modified Outlet Thick Lip	1
8D	86371	• • • Band, Guide	1
8E	86372	• • • Seal, Outlet Thick Lip	1
9	71343	• • Outlet, 4 Inch Chromed	1
10		• Nut, Lock	6
11		• Washer, Lock	6
12		• Bolt, Hex	6
13	71349	• Weldment, 4 Inch TO 4 Inch Swing Tube	1
14	72285	• Seal, Double Lip	1
15	72384	• Ring, Chrome 4 Inch Double Lip Wear	1
16	71251	• Plate, 4 Inch Wear	1
17	71254	• Ring, Anti-Chip	2
18	71247	• O-Ring	2
19		• Washer, Lock	5
20		• Bolt, Hex	5
21		• Bolt, Hex	4
22		• Washer, Lock	4
23		• Fitting, Grease Str	1
24	71011	• Race, Inner	2
25	73564	• Seal, Flanged Bearing	1
26	86502	• Ring, Locator	1
27	77948	• Washer, Lock	2
28	77949	• Bolt, Hex	2
29	70124	• Bearing, Flange	1
30	70141	• Washer, Thrust	1
31		• Nut, Hex	1
32	71234	• Crank, Bell	1
33		• Bolt, Hex	4
34	70125	• Spacer, Nut	1
35	70825	• Nut, Castle	1
36		• Pin, Safety	1

REVISION:

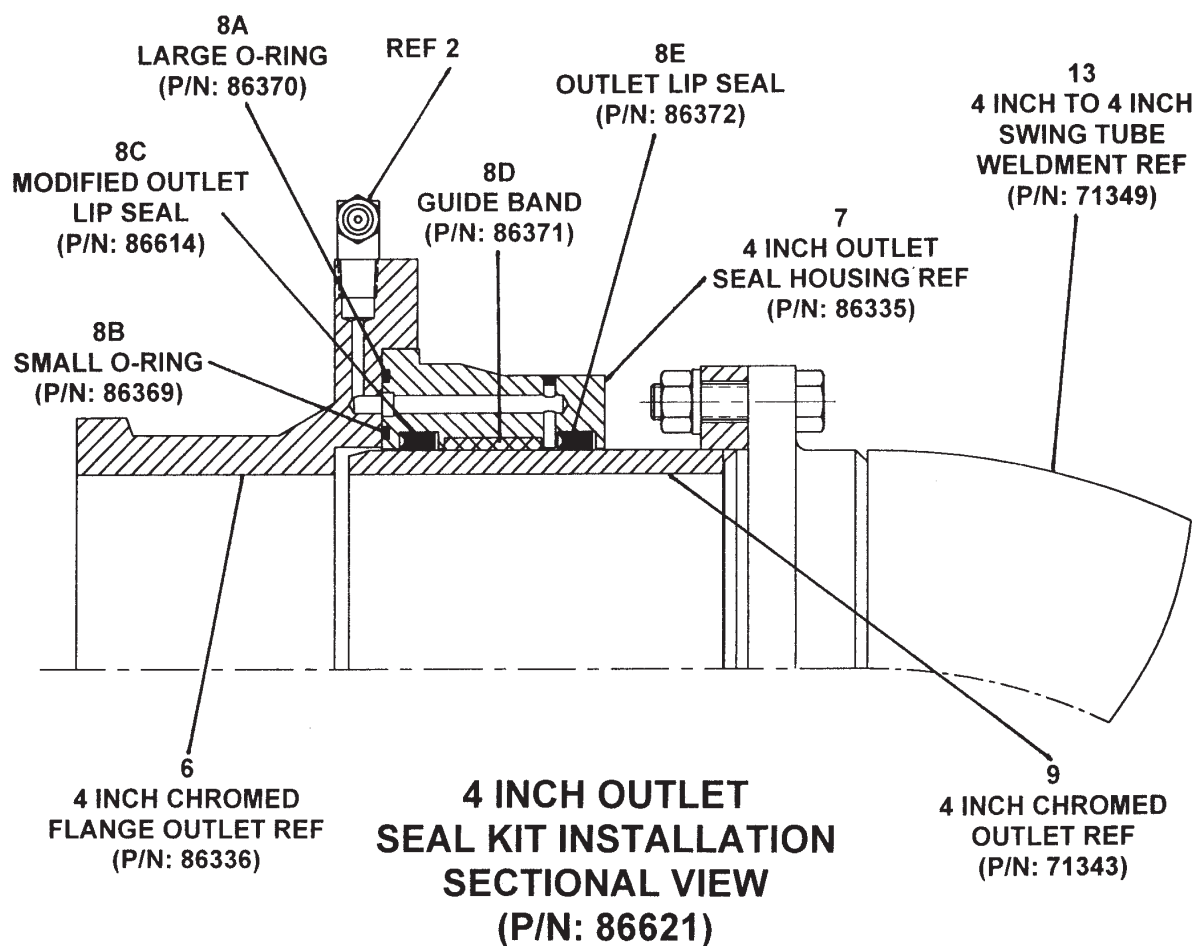




SINGLE SHIFT SWING VALVE ASSEMBLY

B20
PARTS
GROUP 60
FIGURE 03
PAGE 04

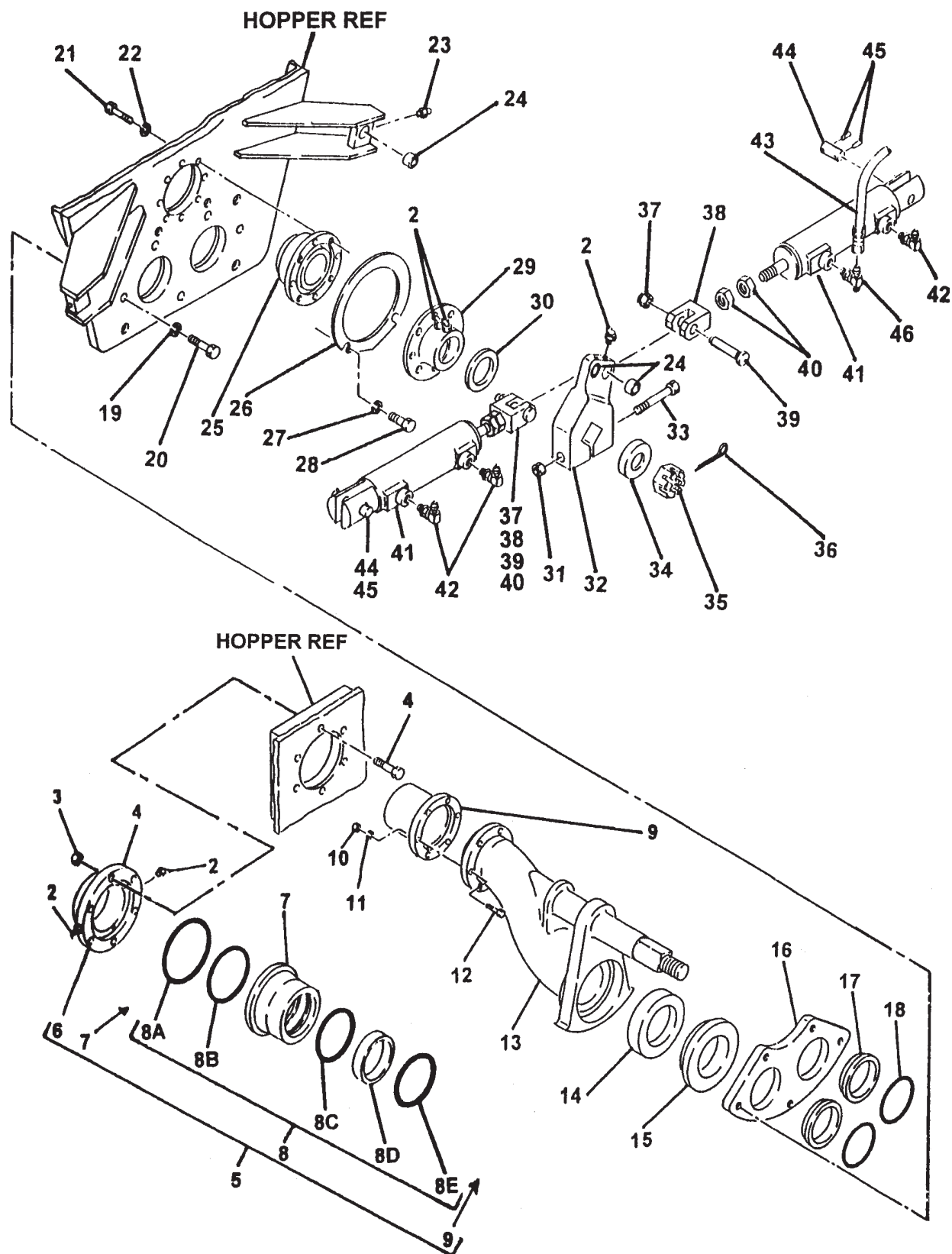
ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
34	70125	• Spacer, Nut	1
35	70825	• Nut, Castle	1
36		• Pin, Safety	1
37		• Nut, Hex	2
38	70143	• Clevis	2
39	70142	• Pin, Clevis	1
40		• Nut, Hex	2
41	71487	• Sub-Assembly, Single Shift Swing Ram Cylinder (See Group 60, Figure 05 for DET)	1
42		• Fitting, 90	2
43		• Assembly, Hose (See Schematic Section for Ref)	2
44	74207	• Assembly, Clevis Pin	1
45		• Pin, Roller	2
-46	71011	• Bushing, Swing Cylinder	1
-47		•	
-48		•	



REVISION:

DUAL SHIFT SWING VALVE ASSEMBLY

B20
PARTS
GROUP 60
FIGURE 04
PAGE 01



REVISION:



DUAL SHIFT SWING VALVE ASSEMBLY

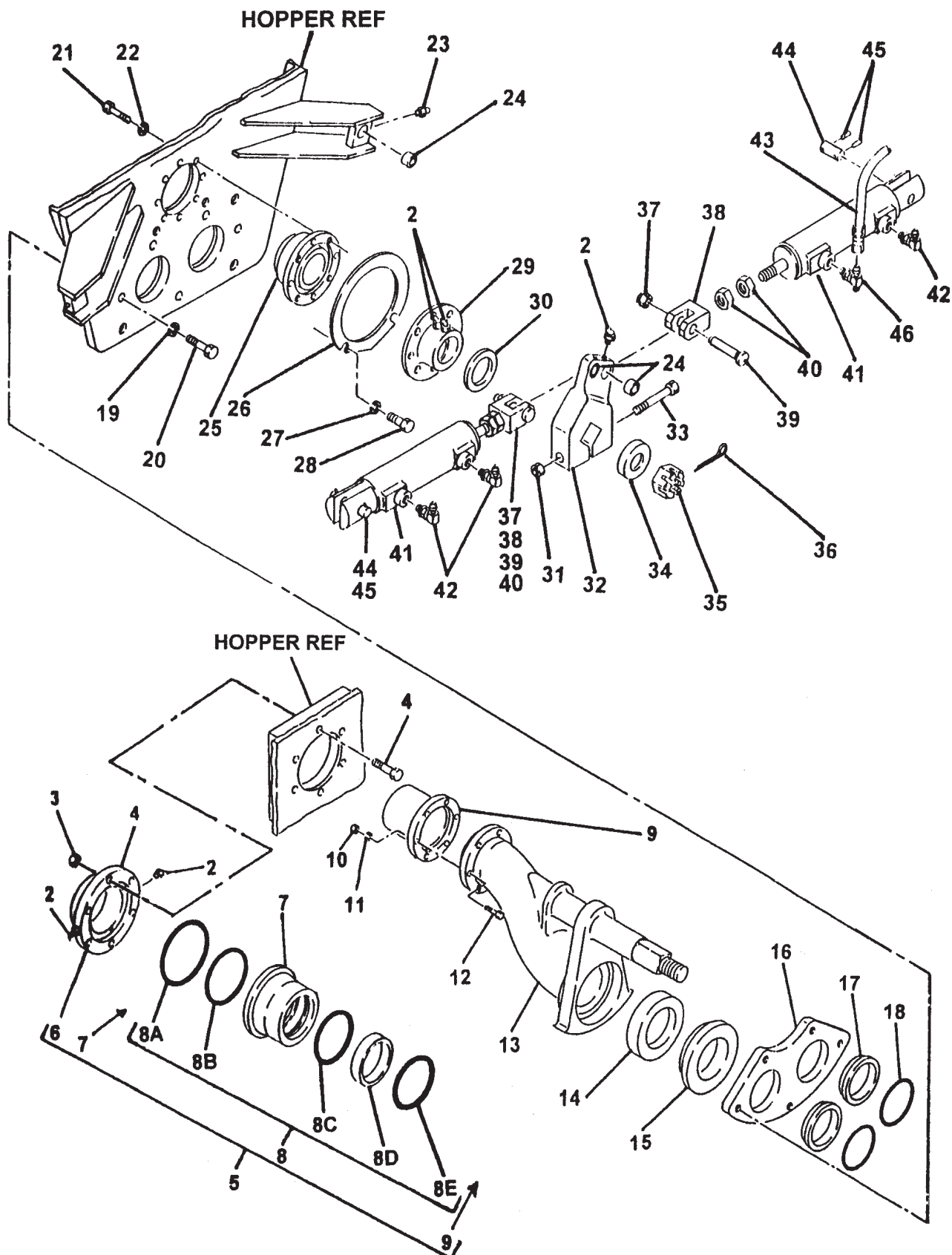
B20
PARTS
GROUP 60
FIGURE 04
PAGE 02

ITEM NO.	REED 'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	60-04	Assembly, Dual Shift Swing Valve (See Group 60, Figure 01 for NHA)	Ref
2		• Fitting, Grease	5
3		• Nut	6
4		• Bolt, Hex	6
5	86617	• Kit, 4 Inch-Outlet Kit	1
6	86336	• Outlet, 4 Inch	1
7	86335	• • Housing, 4 Inch Outlet Seal	1
8	86621	• • Kit, 4 Inch Outlet Seal	1
8A	86370	• • • O-Ring, Large	1
8B	86369	• • • O-Ring, Small	1
8C	86614	• • • Seal, Modified Outlet Thick Lip	1
8D	86371	• • • Band, Guide	1
8E	86372	• • • Seal, Outlet Thick Lip	1
9	71343	• • Outlet, 4 Inch Chromed	1
10		• Nut, Lock	6
11		• Washer, Lock	6
12		• Bolt, Hex	6
13	71349	• Weldment, 4 Inch TO 4 Inch Swing Tube	1
14	72285	• Seal, Double Lip	1
15	72384	• Ring, Chrome 4 Inch Double Lip Wear	1
16	71251	• Plate, 4 Inch Wear	1
17	71254	• Ring, Anti-Chip	2
18	71247	• O-Ring	2
19		• Washer, Lock	5
20		• Bolt, Hex	5
21		• Bolt, Hex	4
22		• Washer, Lock	4
23		• Fitting, Grease Str	1
24	71011	• Race, Inner	2
25	73564	• Seal, Flanged Bearing	1
26	86502	• Ring, Locator	1
27	77948	• Washer, Lock	2
28	77949	• Bolt, Hex	2
29	70124	• Bearing, Flange	1
30	70141	• Washer, Thrust	1
31		• Nut, Hex	1
32	85604	• Crank, Bell	1
33		• Bolt, Hex	4
34	70125	• Spacer, Nut	1
35	70825	• Nut, Castle	1
36		• Pin, Safety	1

REVISION:

DUAL SHIFT SWING VALVE ASSEMBLY

B20
PARTS
GROUP 60
FIGURE 04
PAGE 03



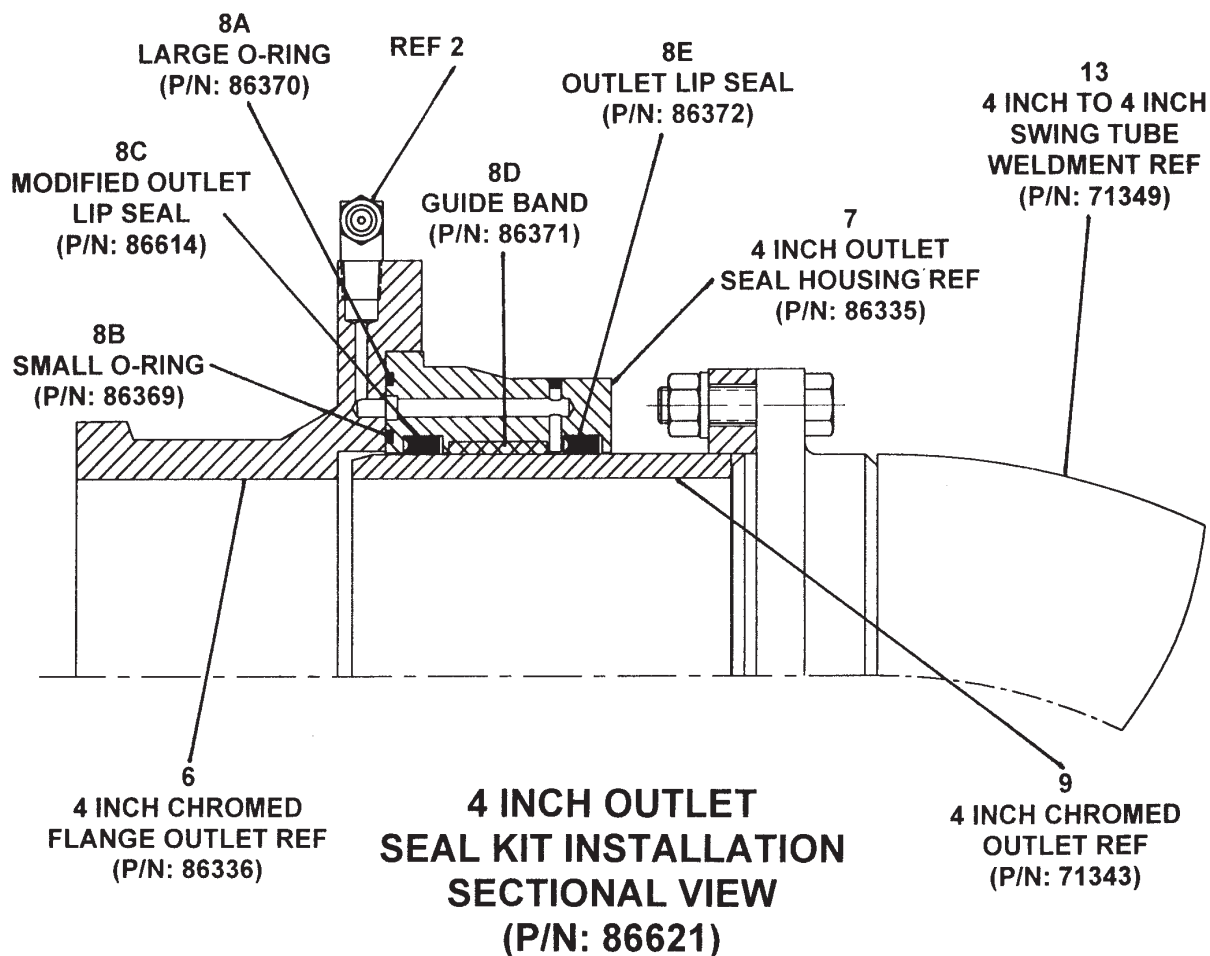
REVISION:



DUAL SHIFT SWING VALVE ASSEMBLY

B20
PARTS
GROUP 60
FIGURE 04
PAGE 04

ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
34	70125	• Spacer, Nut	1
35	70825	• Nut, Castle	1
36		• Pin, Safety	1
37		• Nut, Hex	2
38	70143	• Clevis	2
39	70142	• Pin, Clevis	2
40		• Nut, Hex	4
41	86221	• Sub-Assembly, Dual Shift Swing Ram Cylinder (See Group 60, Figure 06 for DET)	2
42		• Fitting, 90	2
43		• Assembly, Hose (See Schematic Section for Ref)	4
44	74207	• Assembly, Clevis Pin	2
45		• Pin, Roller	4
-46	71011	• Bushing, Swing Cylinder	2
-47		•	
-48		•	



REVISION:





SINGLE SHIFT SWING RAM CYLINDER SUB-ASSEMBLY

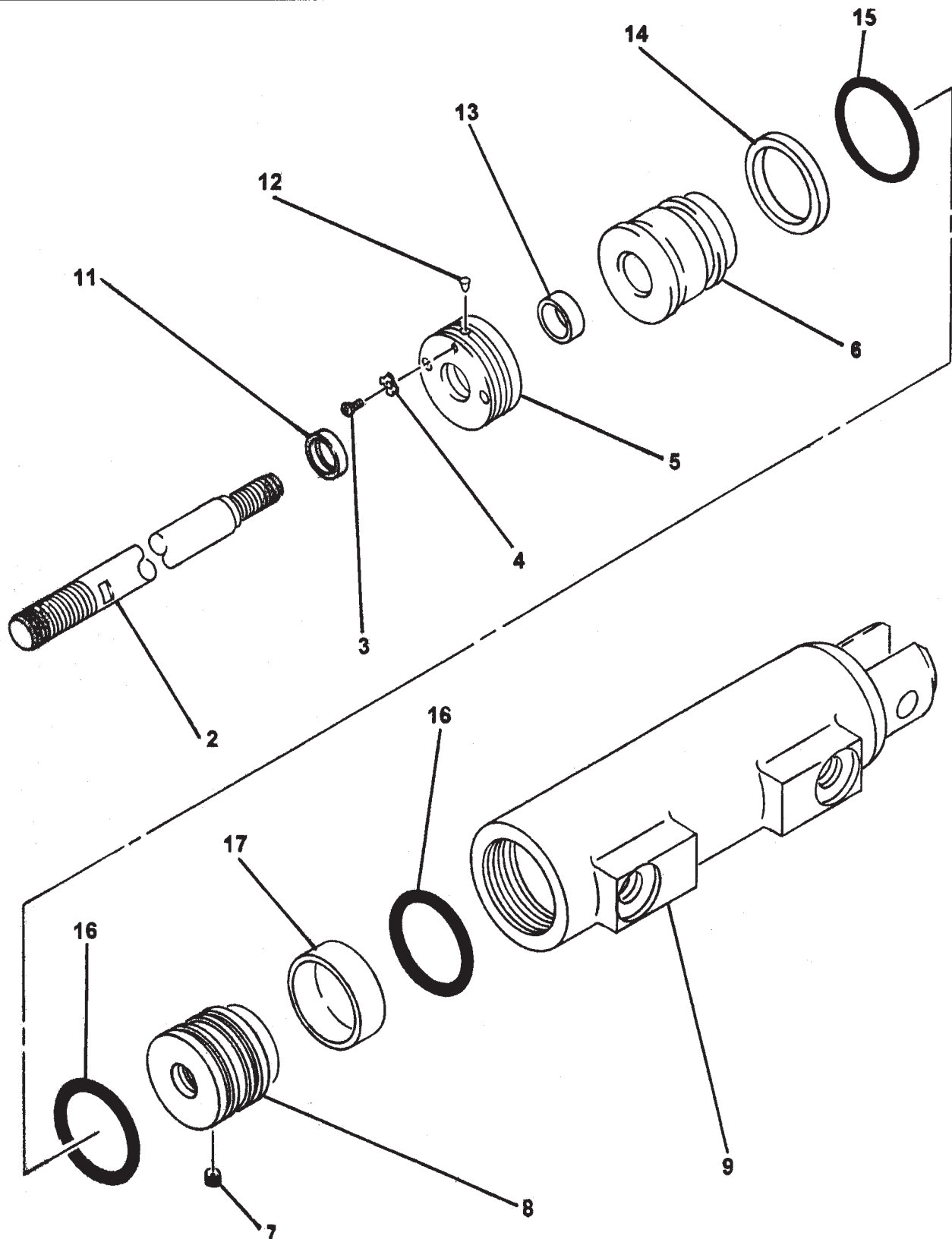
B20
PARTS
GROUP 60
FIGURE 05
PAGE 02

ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	71487	Sub-Assembly, Swing Ram Cylinder (See Group 60, Figure 03 for NHA)	Ref
2		• Rod, Cylinder	1
3		• Retainer, Seal	1
4		• Piston	1
5		• Weldment, Cylinder Barrel	1
-6	77013	• Kit, Seal	1
7		• • Wiper, Rod	1
8		• • Seal, Rod	1
9		• • Seal, Static	1
10		• • Seal, Piston	2
11		• • Seal, Static	1
12		• • Ring, Wear	1
13		• • Nut, Piston	1
14		• • Screw, Set	1
		DASH (-) ITEM NOT ILLUSTRATED	

REVISION:

DUAL SHIFT SWING RAM CYLINDER SUB-ASSEMBLY

B20
PARTS
GROUP 60
FIGURE 06
PAGE 01



REVISION:

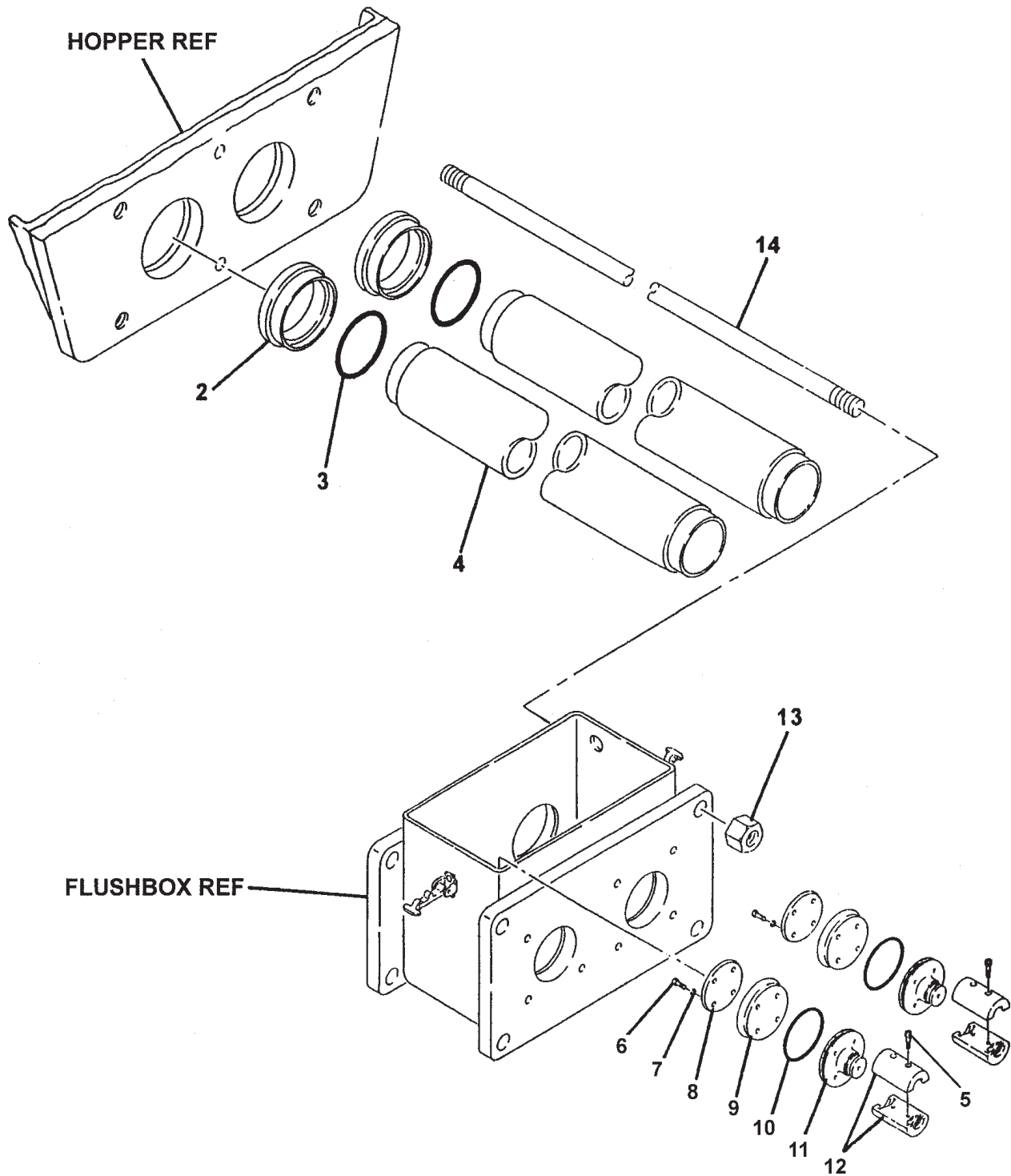


DUAL SHIFT SWING CYLINDER SUB-ASSEMBLY

B20
PARTS
GROUP 60
FIGURE 06
PAGE 02

ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	86221	Sub-Assembly, Swing Ram Cylinder (See Group 60, Figure 04 for NHA)	Ref
2		• Rod, Cylinder	1
3		• Retainer, Seal	1
4		• Piston	1
5		• Weldment, Cylinder Barrel	1
-6	86221-SK	• Kit, Seal	1
7		• • Wiper, Rod	1
8		• • Seal, Rod	1
9		• • Seal, Static	1
10		• • Seal, Piston	2
11		• • Seal, Static	1
12		• • Ring, Wear	1
13		• • Nut, Piston	1
14		• • Screw, Set	1
		DASH (-) ITEM NOT ILLUSTRATED	

REVISION:



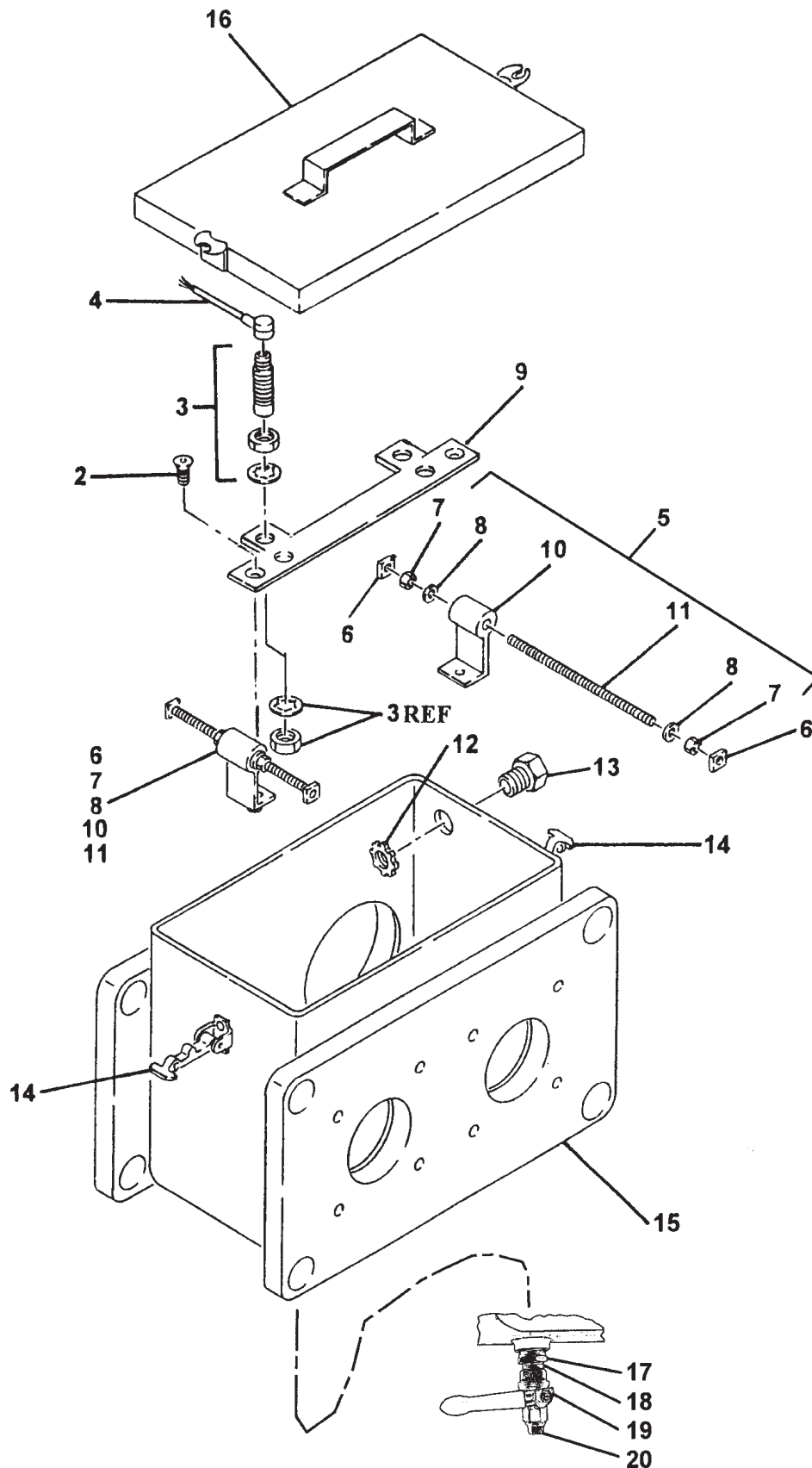


MATERIAL CYLINDER ASSEMBLY

B20
PARTS
GROUP 60
FIGURE 07
PAGE 02

ITEM NO.	REED 'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	60-07	Assembly, Material Cylinder (See Group 60, Figure 01 for NHA)	Ref
2	71257	• Adapter, Concrete Cylinder	2
3	71249	• O-Ring, Concrete Cylinder	2
4	71232	• Cylinder, Concrete-4" x 36"	2
5		• Screw, Soc Hd Cap 1/2-20x1 1/2"	4
6		• Bolt, Hex 3/8-24x1 1/4"	8
7		• Washer, Lock-3/8" (Internal Tooth)	8
8	71235	• Plate, Piston	2
9	76500	• Cup, Piston-4"	2
10	71339	• O-Ring-(4" Piston)	2
11	71233	• Adapter, Concrete Piston	2
12	70077	• Coupling, Piston	2
13		• Nut, Hex 1 1/4"-12 Grade 5	4
14	70315	• Rod, Tie	4

REVISION:



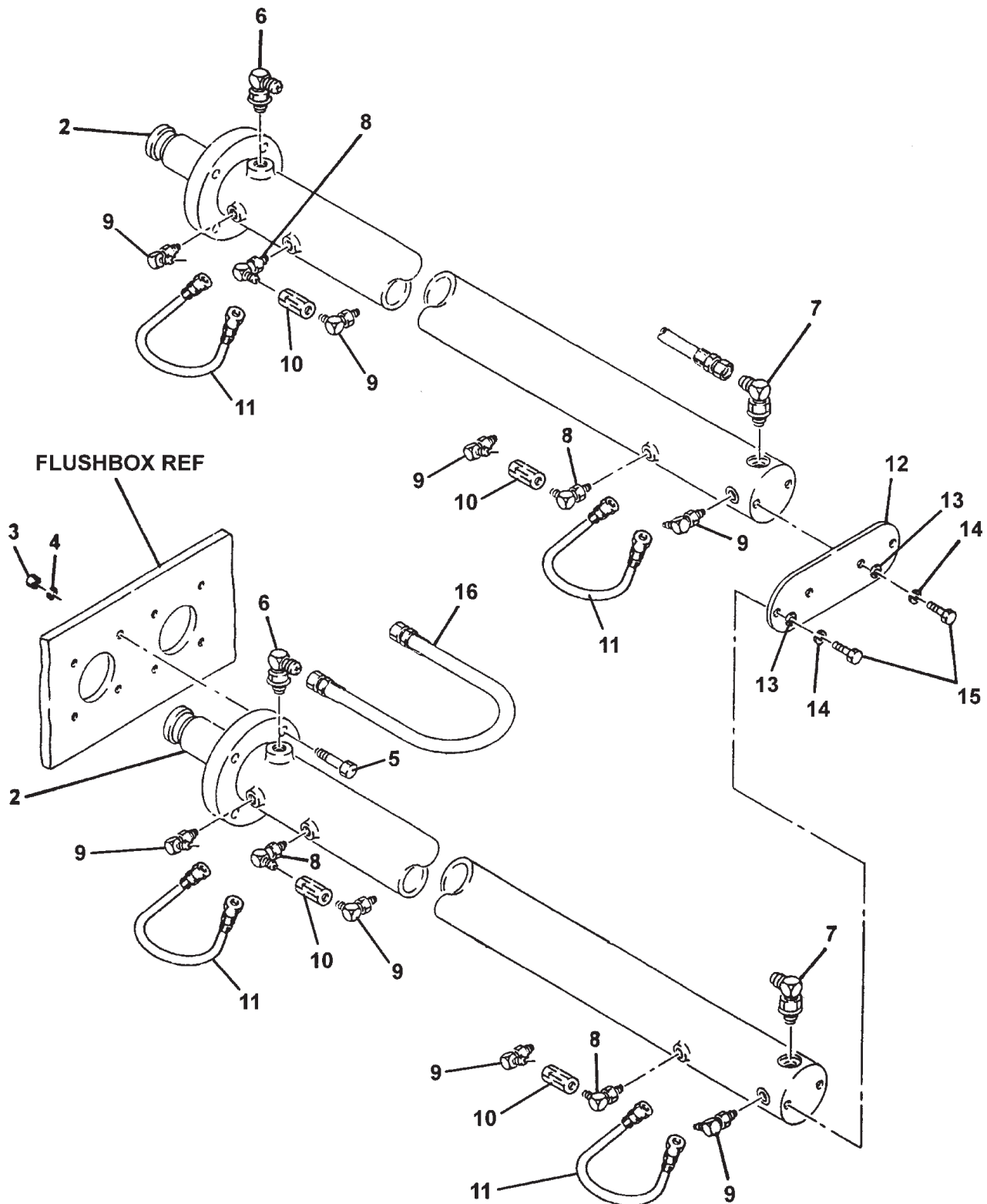


FLUSH BOX ASSEMBLY

B20
PARTS
GROUP 60
FIGURE 08
PAGE 02

ITEM NO.	REED 'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	60-08	Assembly, Flushbox (See Group 60, Figure 01 for NHA)	Ref
2		• Screw	2
3	77998	• Sensor, Proximity Switch	2
4	77990	• Cable, Proximity Switch	2
-5	76561	• Kit, Proximity Switch Mounting	1
6		• • Nut, Special	4
7		• • Nut, Hex	4
8		• • Washer, Lock	4
9	71324	• • Bracket, Mounting	1
10	72940	• • Angle, Mounting	2
11	72806	• • Rod, Threaded	2
12	10528	• Nut	1
13	73783	• Conduit, Fitting	1
14	13002	• Fastener, Cover	2
15	86859	• Weldment, Flushbox	1
16	71933	• Lid, Flushbox	1
17	10224	• Bushing, Hex	1
18	10355	• Nipple, Close Pipe	1
19	56413	• Valve, Ball	1
20	74944	• Plug	1

REVISION:





HYDRAULIC DRIVE CYLINDER ASSEMBLY

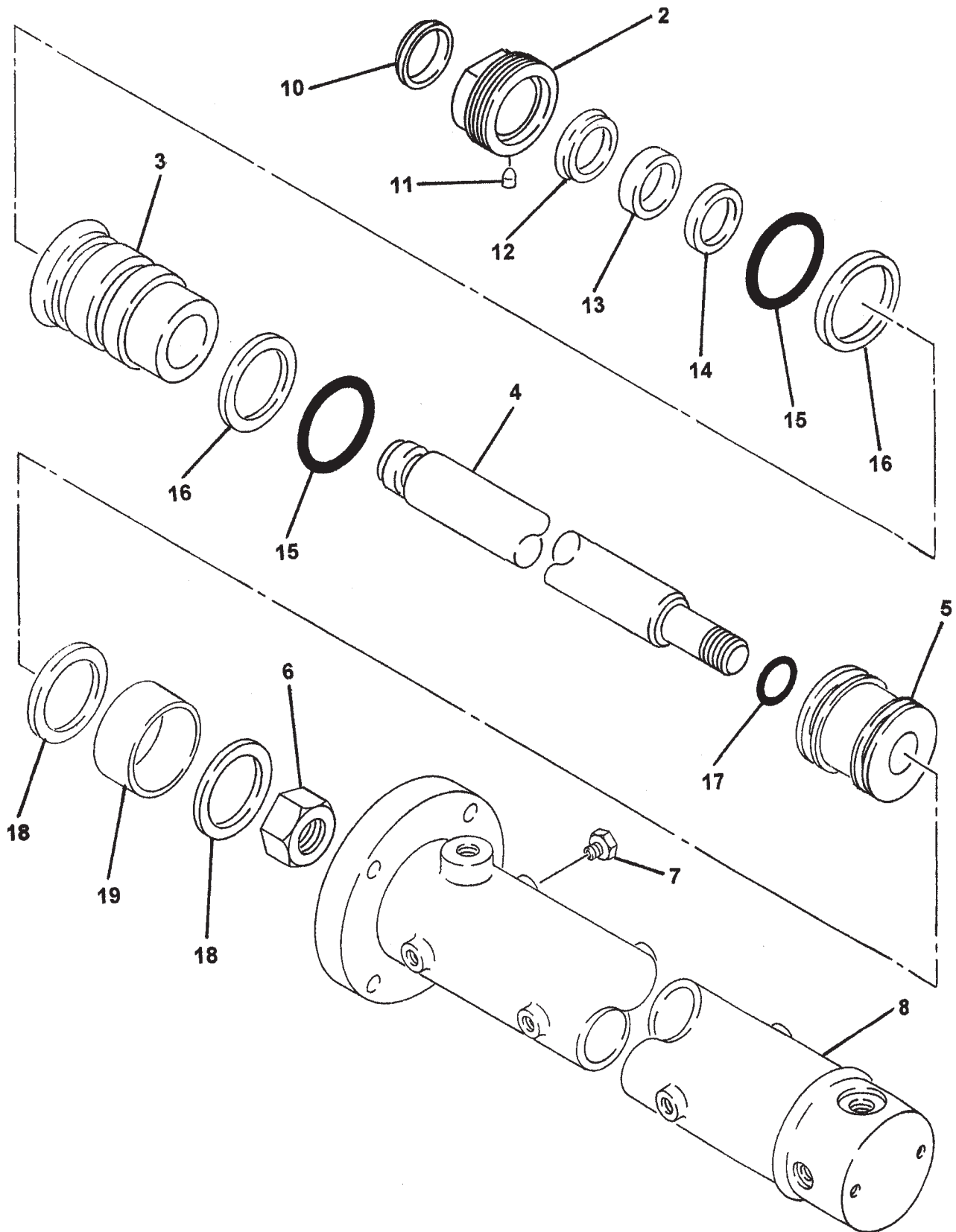
B20
PARTS
GROUP 60
FIGURE 09
PAGE 02

ITEM NO.	REED 'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	60-09	Assembly, Hydraulic Drive Cylinder (See Group 60, Figure 01 for NHA)	Ref
2	73120	• Sub-Assembly, Hydraulic Drive Cylinder-See Fig 10	2
3		• Nut, Hex	8
4		• Washer, Flat-3/4" Harden	8
5		• Screw, Socket Head Cap 3/4-10 X 3"	8
6	86728-019	• Fitting, 90	2
7	86728-023	• Fitting, 90	2
8		• Fitting, 90 MB-MB-90-6-6	4
9	86728	• Fitting, 90	8
10	78961	• Valve, Check	4
11	85659-002	• Assembly, Hose	4
12	71401	• Plate, End	2
13		• • Washer, Flat	4
14		• • Washer, Lock	4
15		• • Bolt, Hex	4
16	85688	• Tube, Hydraulic-Loop Line	1

REVISION:

DRIVE CYLINDER SUB-ASSEMBLY

B20
PARTS
GROUP 60
FIGURE 10
PAGE 01



REVISION:



DRIVE CYLINDER SUB-ASSEMBLY

B20
PARTS
GROUP 60
FIGURE 10
PAGE 02

ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	73120	Sub-Assembly, Hydraulic Drive Cylinder (See Group 60, Figure 09 for NHA)	Ref
2		• Nut, Retaining	1
3		• Rod, Cylinder	1
4		• Retainer	1
5		• Piston	1
6		• Weldment, Cylinder Barrel	1
-7	73120-SK	• Kit, Seal	1
8		• • Wiper, Rod	1
9		• • Bearing, Rod Bronze	1
10		• • Seal, Rod	1
11		• • Seal, Static	1
12		• • Seal, Static	1
13		• • Seal, Piston	1
14		• • Ring, Wear	1
15		• • Nut, Piston	2
16		• • Plug	4
17		• •	
18		• •	
19		• •	

REVISION:



**TRAILER MOUNTED PUMP MODEL *B20*
GROUP 60 PUMPING TRAIN INSTALLATION**

B20
PARTS
GROUP 60
FIGURE 11
PAGE 01

THIS PAGE INTENTIONALLY LEFT BLANK

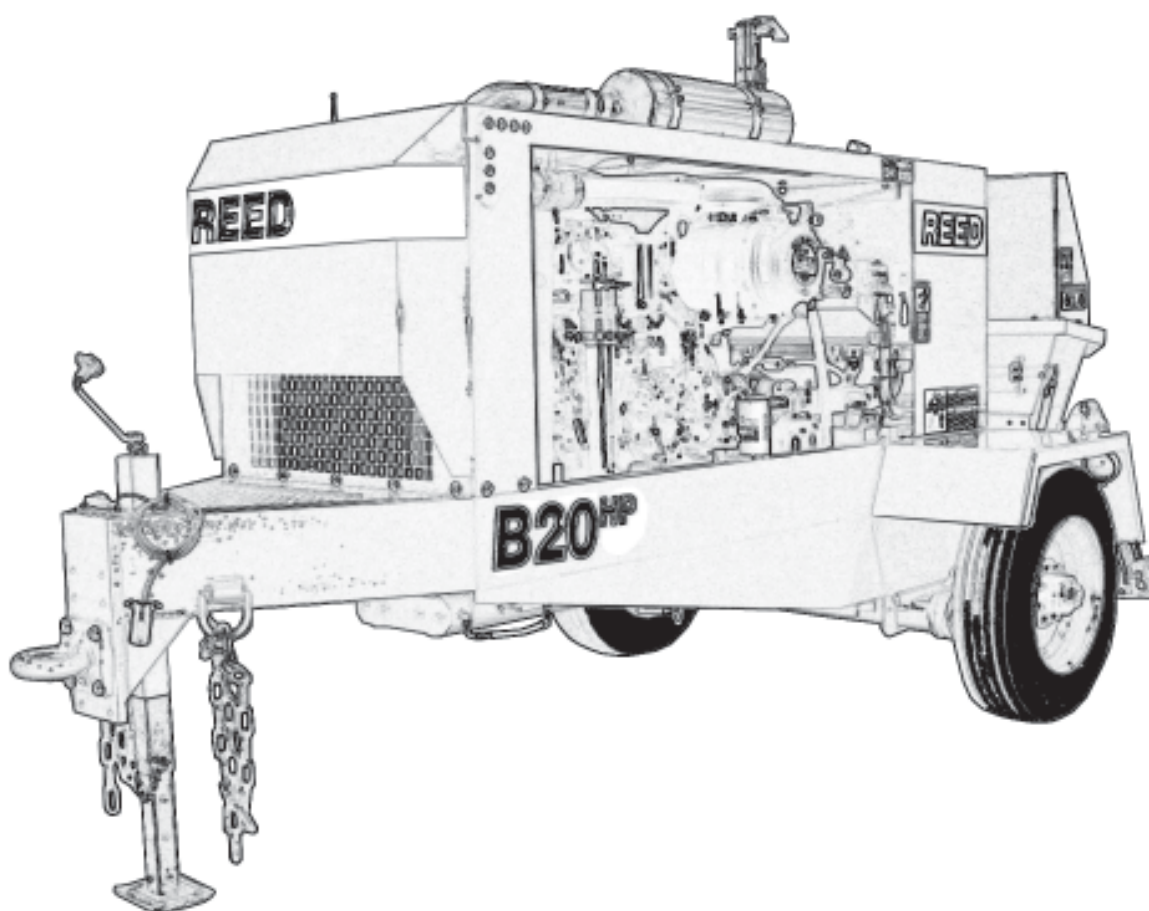


TRAILER MOUNTED PUMP MODEL *B20* GROUP 70 FRAME INSTALLATION

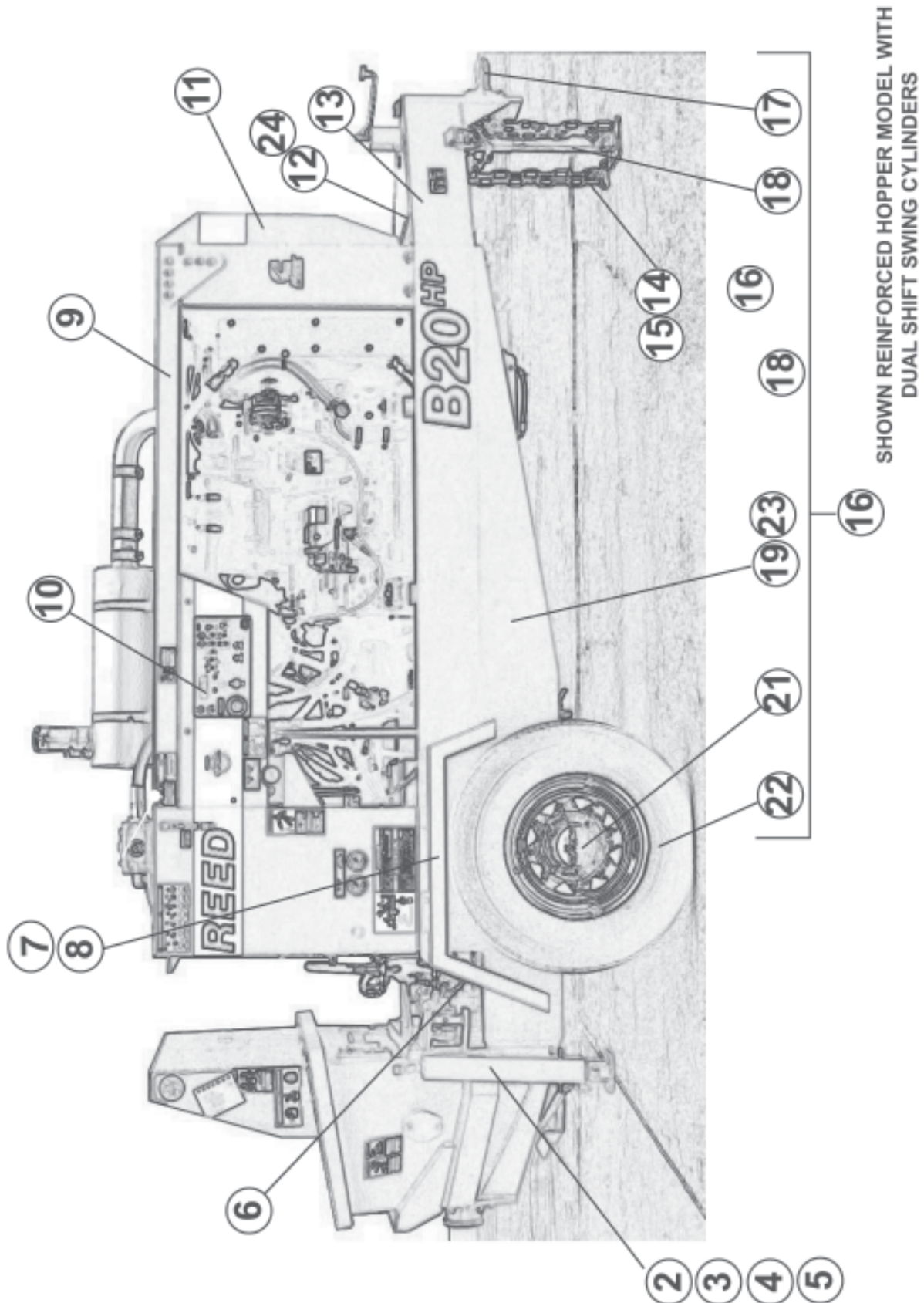
B20
PARTS
GROUP 70
FIGURE 00
PAGE 01

REED TRAILER MOUNTED CONCRETE PUMP MODEL *B20* 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



REVISION:



REVISION:

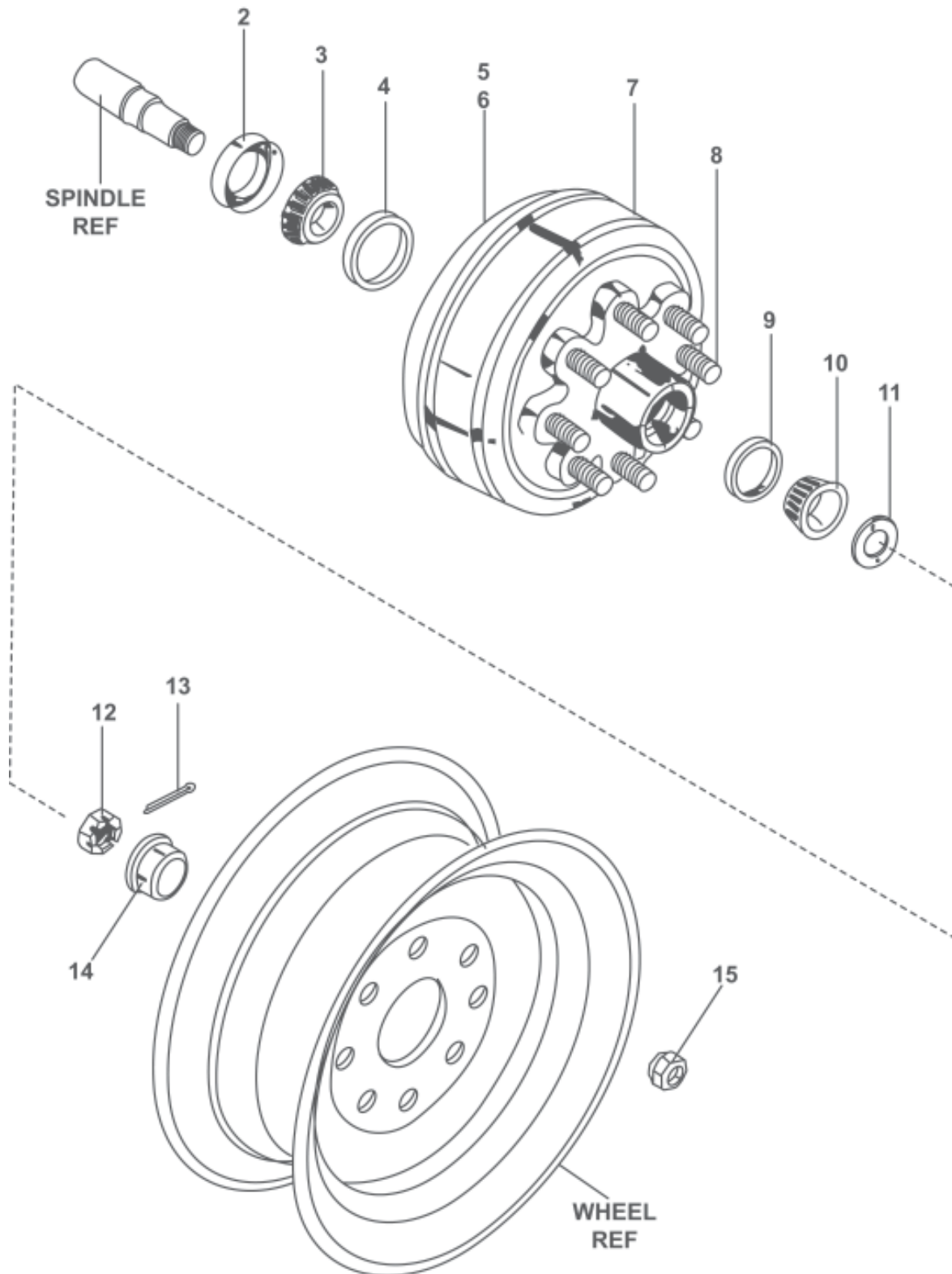


FRAME INSTALLATION

B20
PARTS
GROUP 70
FIGURE 01
PAGE 02

ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	70-01	Installation, Frame (See Group 10, Figure 01, 02, 03 and 04 for NHA)	Ref
2	86553	• Weldment, Outrigger Inner	2
3	86550	• Weldment, Outrigger Outer Tube	2
4	85595	• Pin, Outrigger Safety	2
5	800418	• Lanyard, Q/R Pin	2
6	72948	• Light, Tail	2
7	85392	• Weldment, Right Fender	1
8	85393	• Weldment, Left Fender	1
9	87737	• Assembly, Top Panel	1
10	87449	• Cover, Control Box	1
11	87681	• Cover, Front	1
11A	87647	• Gusset, Engine Cover	2
12	85338	• Cover, Tool Box	1
13	86533	• Assembly, Trailer Wiring Harness (See Schematic Section, Page 15 for REF)	1
14	87085	• Anchor, Shackle w/screw pin	2
15	86730	• Chain, 3/8 Proof Coil -6 FT	2
16	87813	• Assembly, Frame B20	1
17	87037	• • Draw Bar	1
18	85527	• • Weldment, Jack	1
19	87728	• • Weldment, Frame B20	1
20	85424	• • Axle-7000 lbs Capacity Rated (8 on 6.5)	1
21	70-02	• • Assembly, Hub and Brake-See Figure 02	1
22	85423	• • Assembly, Wheel and Tire	2
23	72949	• Grommet, Trailer	3
24	72813	• Grommet, Tool Box	1

REVISION:





HUB AND BRAKE ASSEMBLY

B20
PARTS
GROUP 70
FIGURE 02
PAGE 02

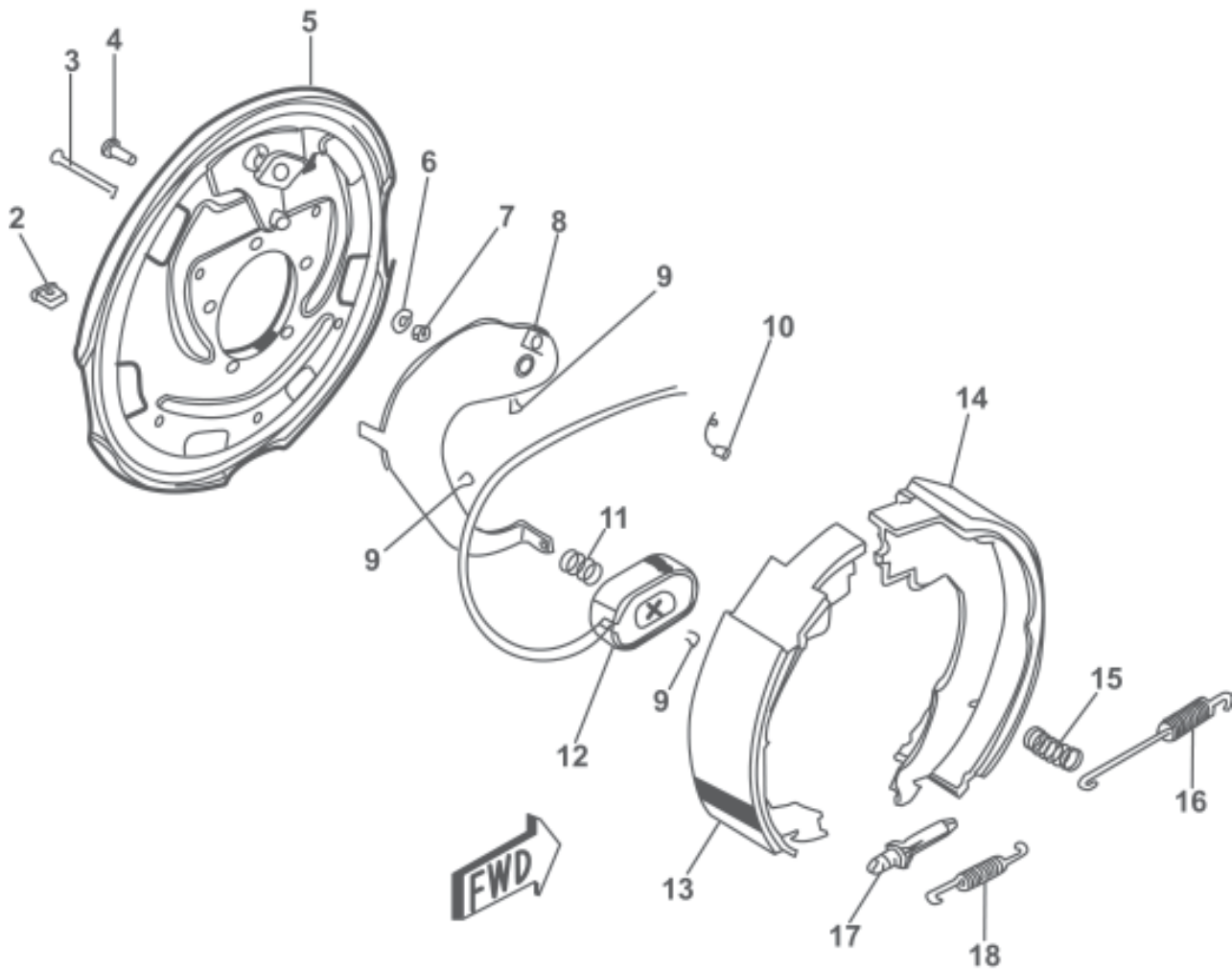
ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	70-02	Assembly, Hub and Brake (Left And Right Side) (See Group 70, Figure 01 for NHA)	Ref
2	86709	• Seal, Double Lip Grease	2
3	71094	• Bearing, Inner	2
4	71092	• Race, Inner Bearing	2
5	71056-L	• Assembly, Non-Operator Side Electric Brake (Set) (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	86717	• Assembly, Drum and Hub	2
8	86716	• Stud, Wheel	16
9	86710	• Race, Outer Bearing	2
10	71098	• Bearing, Outer	2
11	86711	• Washer, Spindle	2
12	86712	• Nut, Spindle	2
13	86713	• Pin, Cotter	2
14	86714	• Cap, Dust	2
15	86715	• Nut, Wheel	16

DASH (-) ITEM NOT ILLUSTRATED

REVISION:

NON OPERATOR SIDE ELECTRIC BRAKE ASSEMBLY

B20
PARTS
GROUP 70
FIGURE 03
PAGE 01



REVISION:



NON OPERATOR SIDE ELECTRIC BRAKE ASSEMBLY

B20
PARTS
GROUP 70
FIGURE 03
PAGE 02

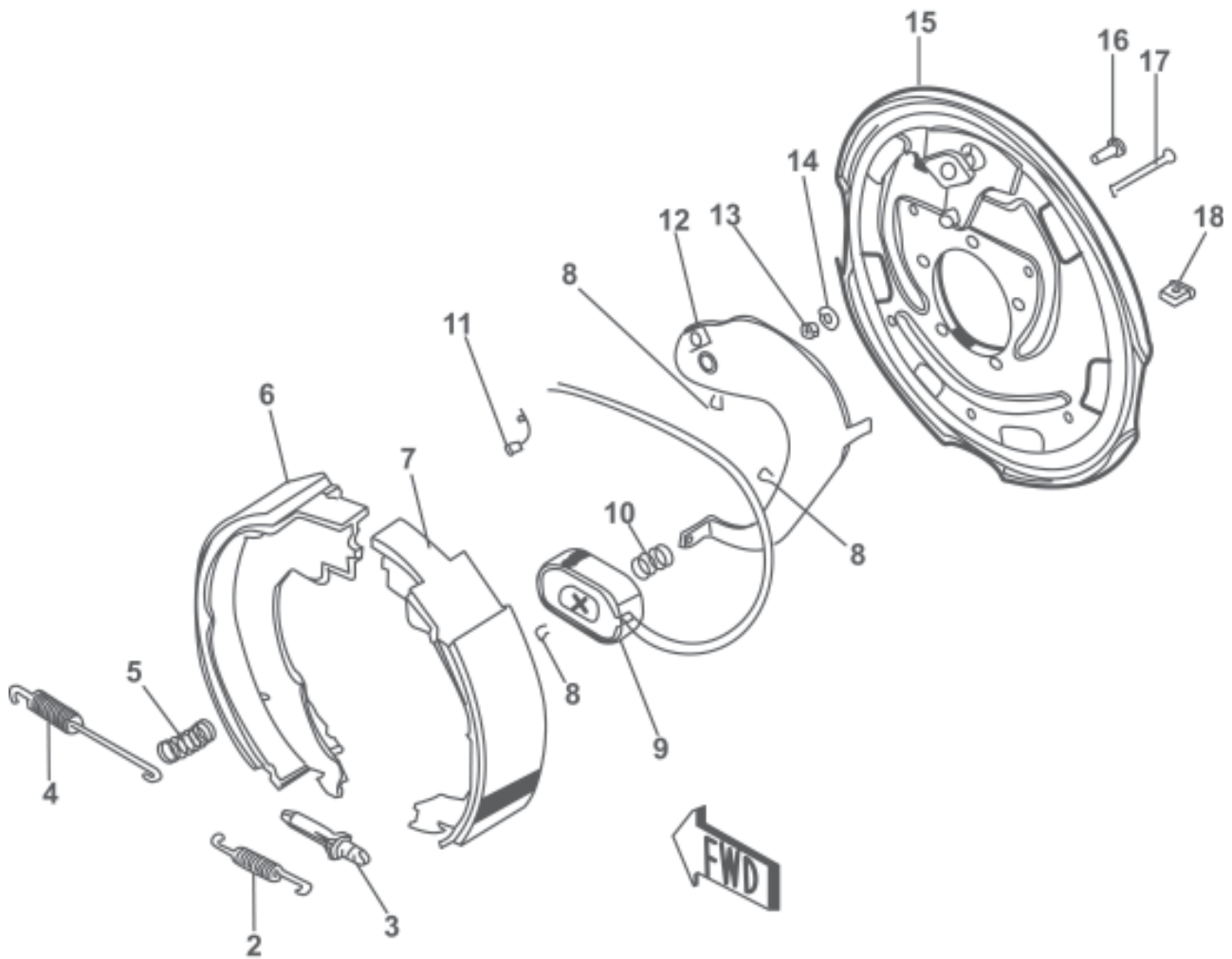
ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	71056-L	Assembly, Non-Operator Side Electric Brake (See Group 70, Figure 02 for NHA)	Ref
2		• Slot, Plug Adjust	1
3		• Pin, Shoe Hold Down	1
4		• Stud, Brake Mounting	5
5		• Assembly, Baking Plate	1
6		• Washer, Brake Lock	5
7		• Nut, Brake Mounting	5
8		• Lever, Non-Operator Side	1
9		• Clip, Wire and Magnet	3
10		• Relief, Strain	2
11		• Sprint, 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

REVISION:

OPERATOR SIDE ELECTRIC BRAKE ASSEMBLY

B20
PARTS
GROUP 70
FIGURE 04
PAGE 01





OPERATOR SIDE ELECTRIC BRAKE ASSEMBLY

B20
PARTS
GROUP 70
FIGURE 04
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
-1	71056-R	1 2 3 4 5 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

REVISION:



TRAILER MOUNTED PUMP MODEL *B20*
ILLUSTRATED PARTS MANUAL

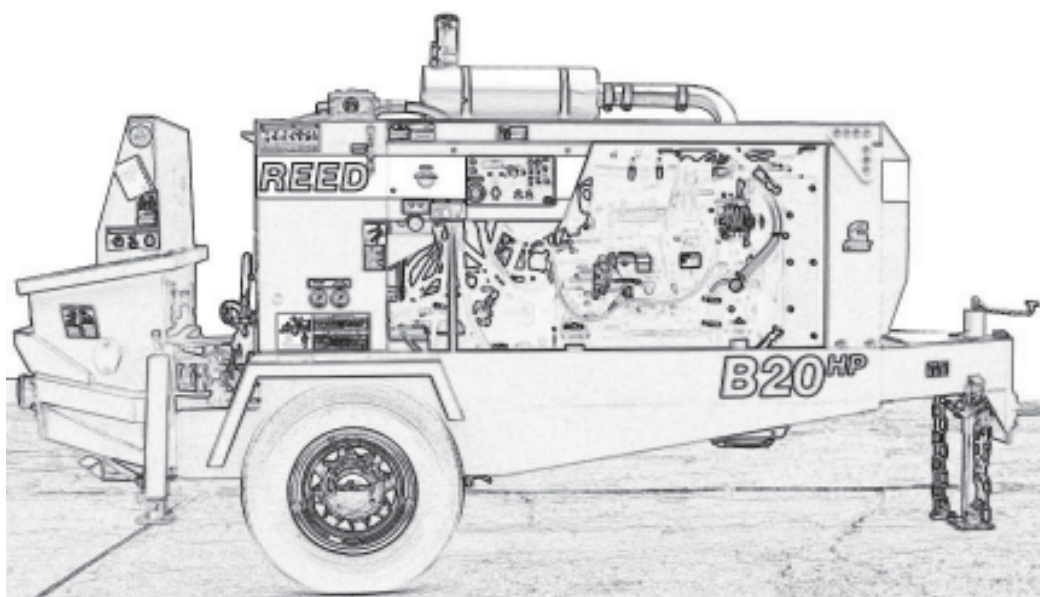
B20
PARTS
GROUP 70
FIGURE 05
PAGE 01

THIS PAGE INTENTIONALLY LEFT BLANK



TRAILER MOUNTED PUMP MODEL *B20* GROUP 80 OPTIONAL INSTALLATION

B20
PARTS
GROUP 80
FIGURE 00
PAGE 01



REED TRAILER MOUNTED CONCRETE PUMP MODEL *B20* ILLUSTRATED PARTS MANUAL GROUP 80 OPTIONAL INSTALLATION CONTAINS THE FOLLOWING FIGURES:

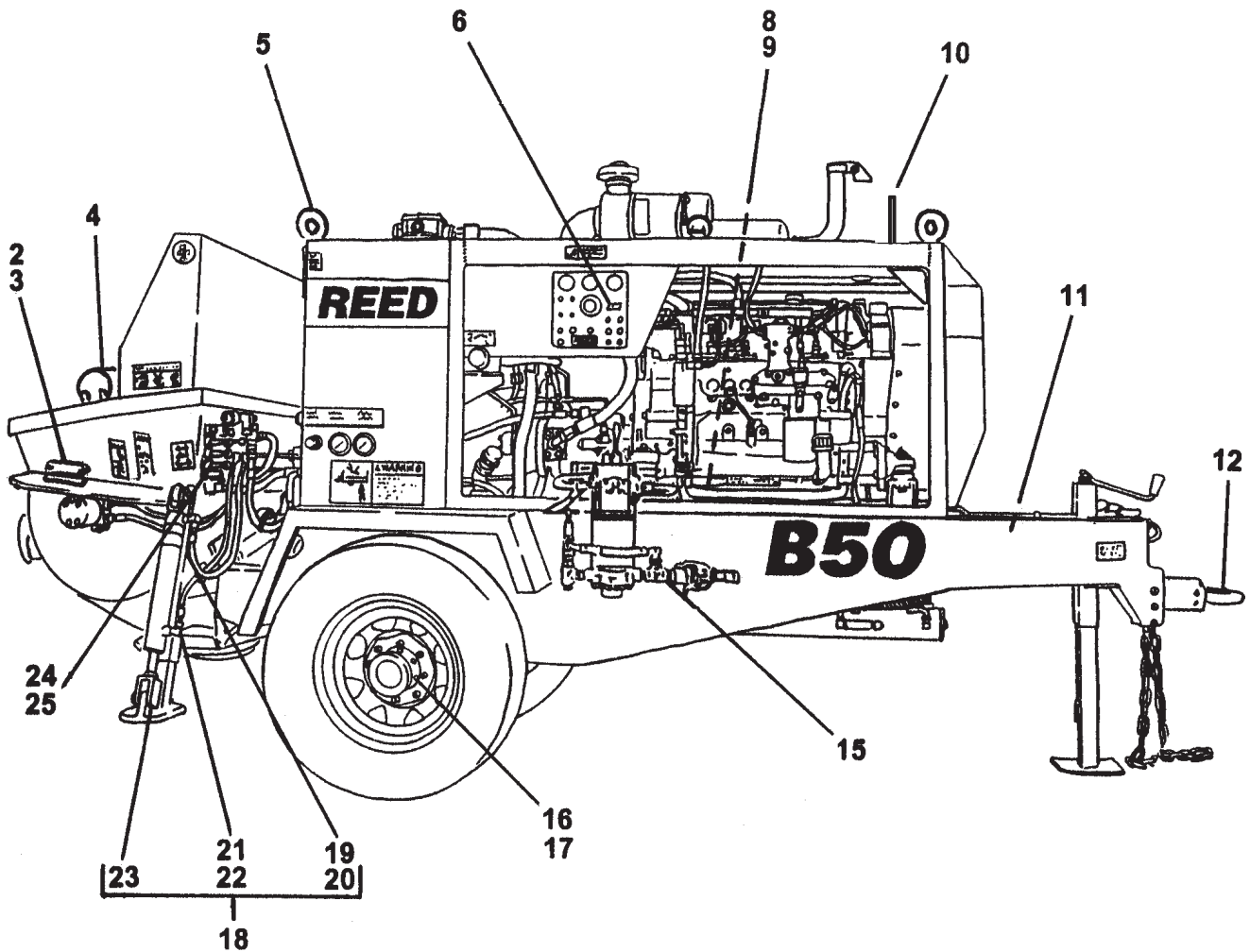
FIGURE	00	TABLE OF CONTENTS
FIGURE	01	OPTIONAL INSTALLATION
FIGURE	02	LUBE SYSTEM ASSEMBLY
FIGURE	03	12 VOLT LUBE PUMP ASSEMBLY
FIGURE	04	HOPPER VIBRATOR ASSEMBLY
FIGURE	05	CHROME WHEELS-OPTIONAL
FIGURE	06	ACCUMULATOR CHARGE KIT
FIGURE	07	OPTIONAL TOOL KIT ASSEMBLY
FIGURE	08	ACTUATOR BRAKES ASSEMBLY
FIGURE	09	WATER PUMP INSTALLATION
FIGURE	10	WATER PUMP CONTROL VALVE ASSEMBLY
FIGURE	11	WATER PUMP MOTOR ASSEMBLY
FIGURE	12	WATER PUMP ASSEMBLY
FIGURE	13	NON-OPERATOR SIDE HYDRAULIC BRAKE ASSM.
FIGURE	14	OPERATOR SIDE HYDRAULIC BRAKE ASSEMBLY
FIGURE	15	HYDRAULIC OUTRIGGER CYLINDER ASSEMBLY
FIGURE	16	1 SPOOL CONTROL VALVE ASSEMBLY
FIGURE	17	1 SPOOL CONTROL VALVE SUBASSEMBLY
FIGURE	18	2 SPOOL CONTROL VALVE ASSEMBLY
FIGURE	19	2 SPOOL CONTROL VALVE SUBASSEMBLY
FIGURE	20	SIDE DOOR ASSEMBLY

REVISION:

REED

OPTIONAL INSTALLATION

B20
PARTS
GROUP 80
FIGURE 01
PAGE 01



REVISION:

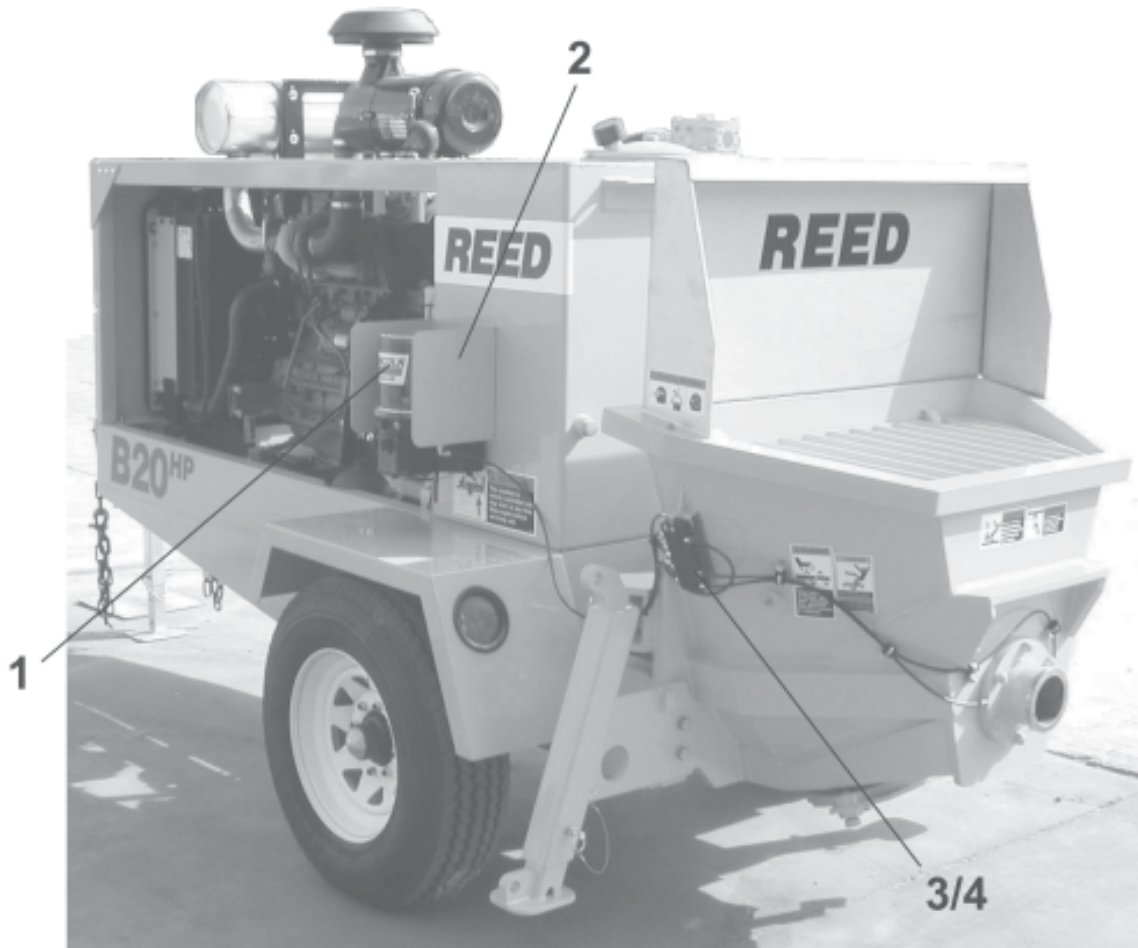


OPTIONAL INSTALLATION

B20
PARTS
GROUP 80
FIGURE 01
PAGE 02

ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	80-01	Installation, Optional (See Group 10, Figure 01, 02, 03 and 04 for NHA)	Ref
2	80-02	• Assembly, Lube System (See Group 80, Figure 02 for DET)	1
3	87193	• Assembly, Lube Pump (See Group 80, Figure 03 for DET)	1
4	87455	• Assembly, Hopper Vibration (See Group 80, Figure 04 for DET)	1
5	86763	• Assembly, Optional Lifting	1
6	85774	• Assembly, Stroke Counter	1
7	80-05	• Optional, Chrome Wheels (See Group 80, Figure 05 for DET)	1
8	71460	• Kit, Accumulator Charge (See Group 80, Figure 06 for DET)	1
9	30-11	• Kit, Bladder Repair (See Group 30, Figure 11 for REF)	1
10	87348-1	• Transmitter, Radio Remote Control (See Group 50 for REF)	1
11	79020	• Assembly, Optional Tool Kit (See Group 80, Figure 07 for DET)	1
12	75413	• Assembly, Actuator Brake (See Group 80, Figure 08 for DET)	1
13	-	•	-
14	-	•	-
15	86400	• Installation, Water Pump (See Group 80, Figure 09 for DET)	1
16	80-13	• Assembly, Non-Operator Side Hydraulic Brake (See Group 80, Figure 13 for DET)	1
17	80-14	• Assembly, Operator Side Hydraulic Brake (See Group 80, Figure 14 for DET)	1
18	85677	• Assembly, Hydraulic Outrigger	1
19	85685	• • Assembly, Tube	2
20	85686	• • Assembly, Tube	2
21	85659-010	• • Assembly, Hose (See Schematic Section, Figure 05 for REF)	4
22		• • Elbow, 90	4
23	85640	• • Assembly, Hydraulic Outrigger Cylinder (See Group 80, Figure 15 for DET)	2
24	80-16	• Assembly, 1 Spool Valve (See Group 80, Figure 16 for DET)	1
25	80-18	• Assembly, 2 Spool Valve (See Group 80, Figure 18 for DET)	1
-26	85943	• Assembly, Side Door (See Group 80, Figure 20 for DET)	1
		DASH (-) ITEM NOT ILLUSTRATED	

REVISION:



B20HP UNIT SHOWN W/DEUTZ DIESEL ENGINE





**LUBE SYSTEM
ASSEMBLY**

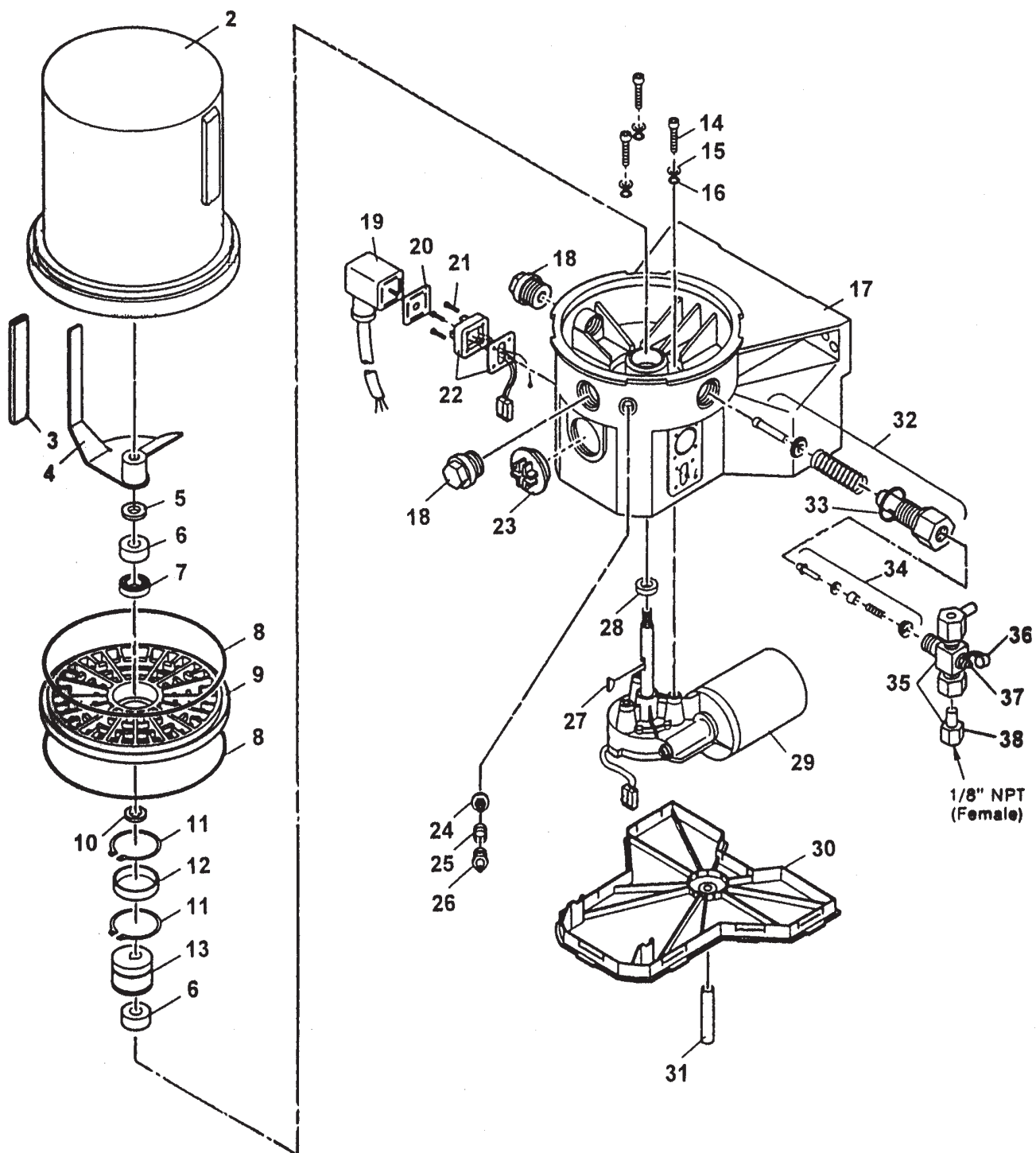
B20
PARTS
GROUP 80
FIGURE 02
PAGE 02

ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-	87476	Assembly, Auto Lube (B+C-Series Plastic Version) (See Group 80, Figure 01 for NHA)	Ref
1	87193	• Pump, Lube Assy-12V	1
2	87257	• Guard, Lube Pump	1
3	87437	• Block, Lube Union-18 Ports	1
4	87475	• Bracket, Lube Union Block	1

REVISION:

LUBE PUMP ASSEMBLY

B20
PARTS
 GROUP 80
 FIGURE 03
 PAGE 01



REVISION:



LUBE PUMP ASSEMBLY

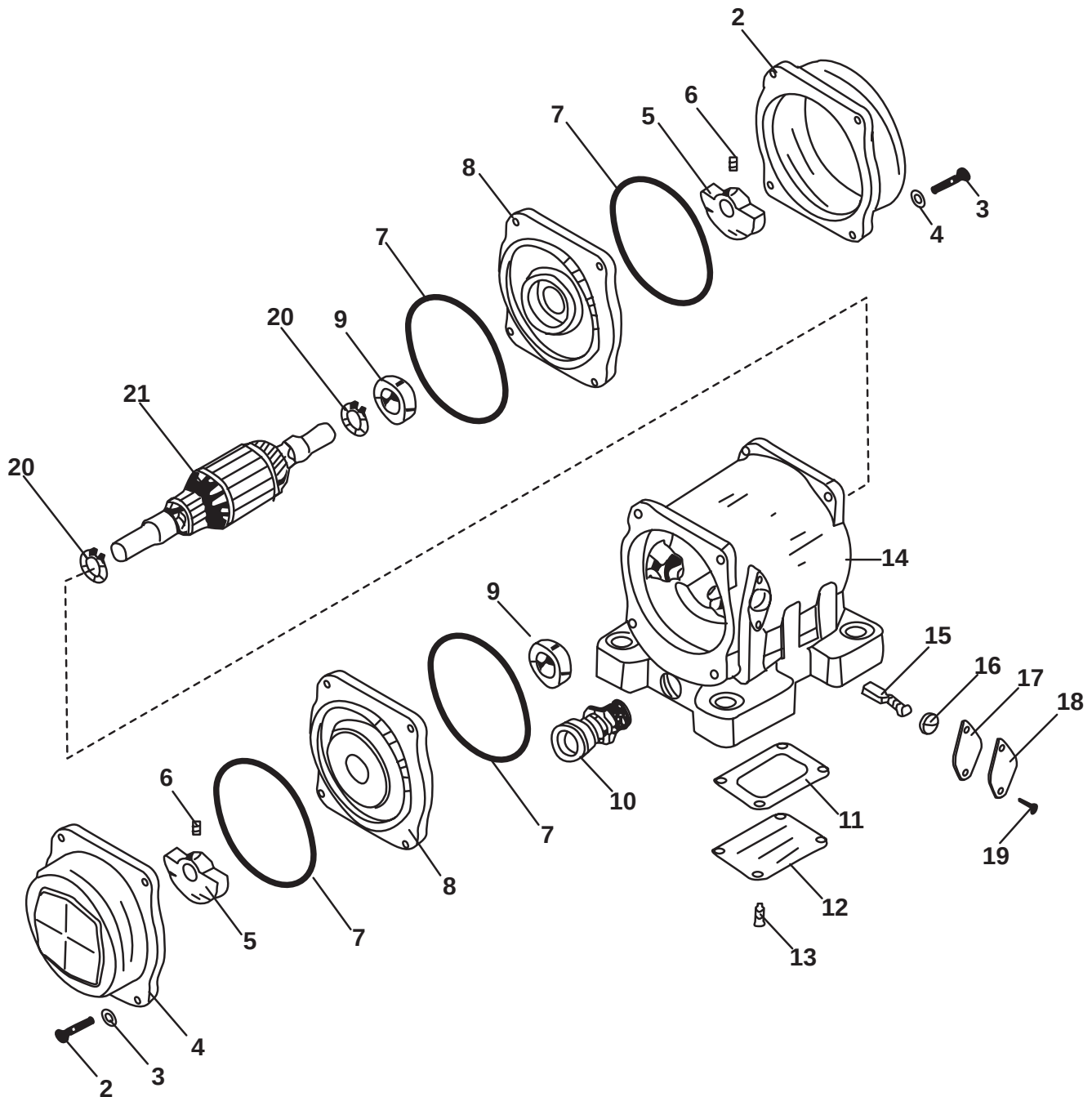
B20
PARTS
GROUP 80
FIGURE 03
PAGE 02

ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	87193	Assembly, Lube Pump (See Group 80, Figure 01 for NHA)	Ref
2		• Reservoir	1
3		• House	1
4		• Paddle, Stirring	1
5		• Washer	1
6		• Ring, Bearing	2
7		• Bearing	1
8		• O-Ring	2
9		• Plate, Intermediate	1
10		• Shim	1
11		• Ring, Snap	2
12		• Ring, Inner	1
13		• Cam, Eccentric	1
14		• Screw	3
15		• Washer	3
16		• O-Ring	3
17		• Housing, Pump	1
18		• Plug, Closure	2
19		• Socket with Cord	1
20		• Packing, Flat	1
21		• Screw	4
22		• Plug	1
23		• Plug, Sealing	1
24		• Insert, Filter	1
25		• Spring	1
26		• Fitting, Grease	1
27		• Key, Woodruff	1
28		• Seal, Radial	1
29		• Motor, 12 VDC	1
30		• Cover, Housing	1
31		• Hose	1
32		• Element, Pump	1
33		• Gasket	1
34		• Valve, Check	1
35		• Assembly, Pressure Relies	1
36		• Cap, Grease	1
37		• Fitting, Grease	1
38		• Assembly, Adapter for Relief	1

REVISION:

HOPPER VIBRATOR ASSEMBLY

B20
PARTS
GROUP 80
FIGURE 04
PAGE 01





HOPPER VIBRATOR ASSEMBLY

B20
PARTS
GROUP 80
FIGURE 04
PAGE 02

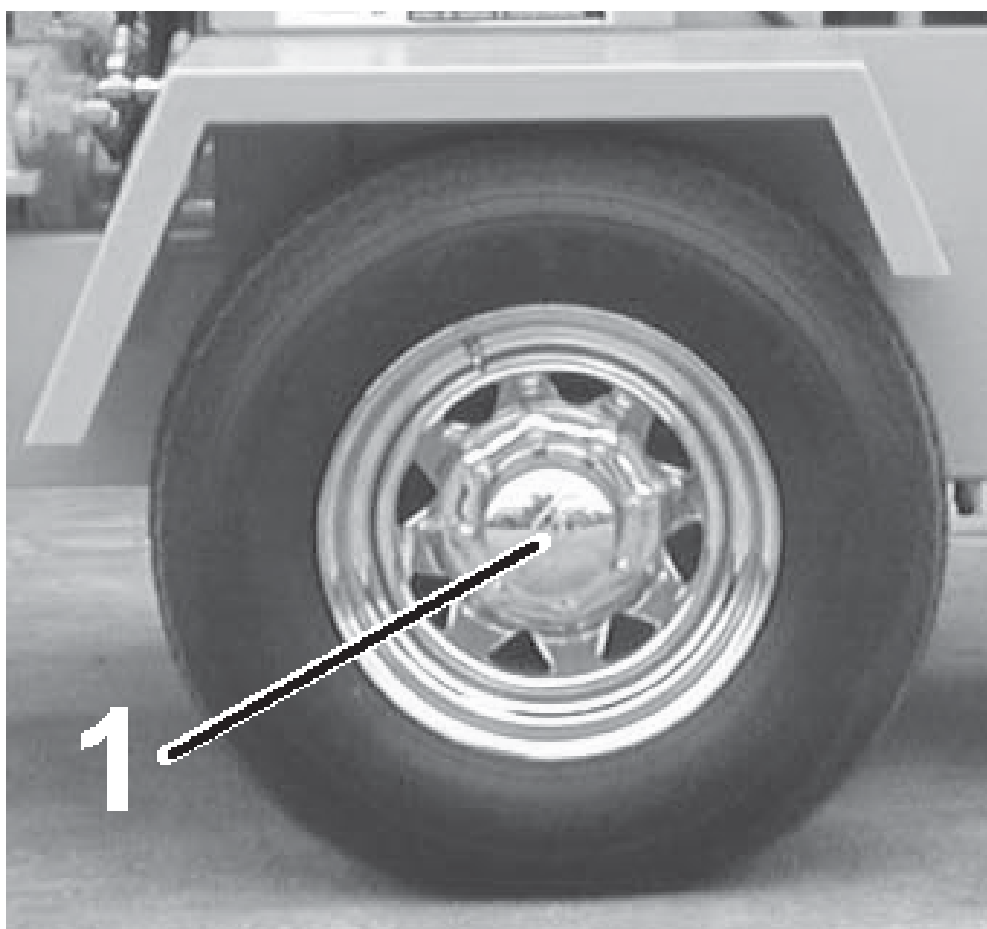
ITEM NO.	REED 'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	87455	Assembly, Hopper Vibrator (See Group 80, Figure 01 for NHA)	Ref
2		• Cap, End	2
3		• Bolt (attaching parts)	8
4		• Washer, Lock (attaching parts)	8
5		• Weight	2
6		• Screw, Set (attaching parts)	2
7		• O-Ring	4
8		• Bell, End	2
9		• Bearing	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

REVISION:



CHROME WHEELS OPTIONAL

B20
PARTS
GROUP 80
FIGURE 05
PAGE 01



REVISION:



CHROME WHEELS
OPTIONAL

B20
PARTS
GROUP 80
FIGURE 05
PAGE 02

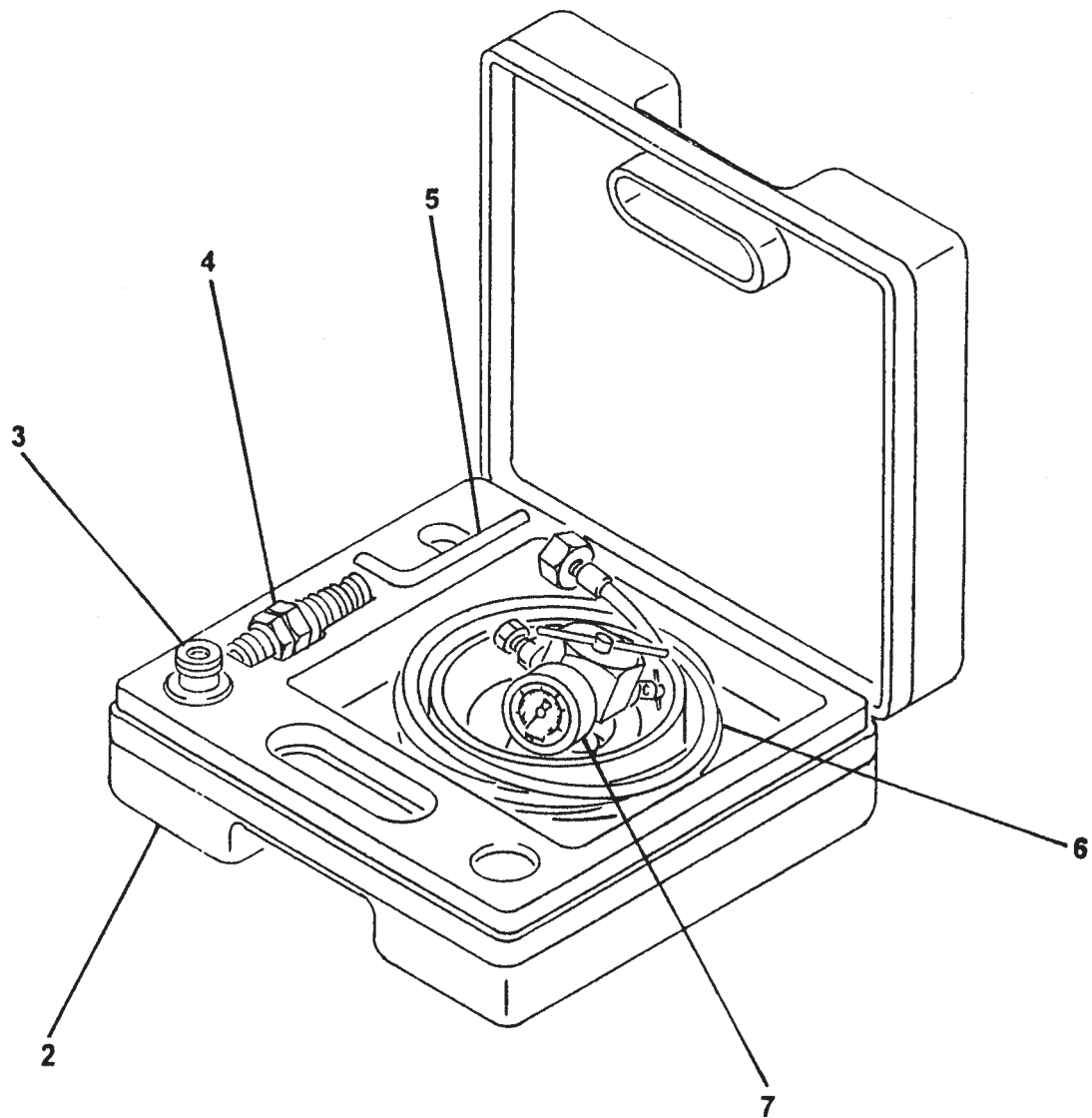
ITEM NO.	REED'S PARTS NO.	DESCRIPTION	QTY
		1 2 3 4 5	
1	86059	Tire & Wheel, Chrome (9.50Rx16.5)	2

REVISION:



ACCUMULATOR
CHARGE KIT

B20
PARTS
GROUP 80
FIGURE 06
PAGE 01





ACCUMULATOR CHARGE KIT

B20
PARTS
GROUP 80
FIGURE 06
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
-1	71460	1 2 3 4 5 Kit, Accumulator Charge (See Group 80, Figure 01 for NHA)	Ref
2		• Case, Charge Kit	1
3		• Adapter, FPK / SB	1
4		• Adapter, G4	1
5		• Wrench, Allen	1
6		• Hose, Charging	1
7		• Unit, FPK Charging and Gaging	1

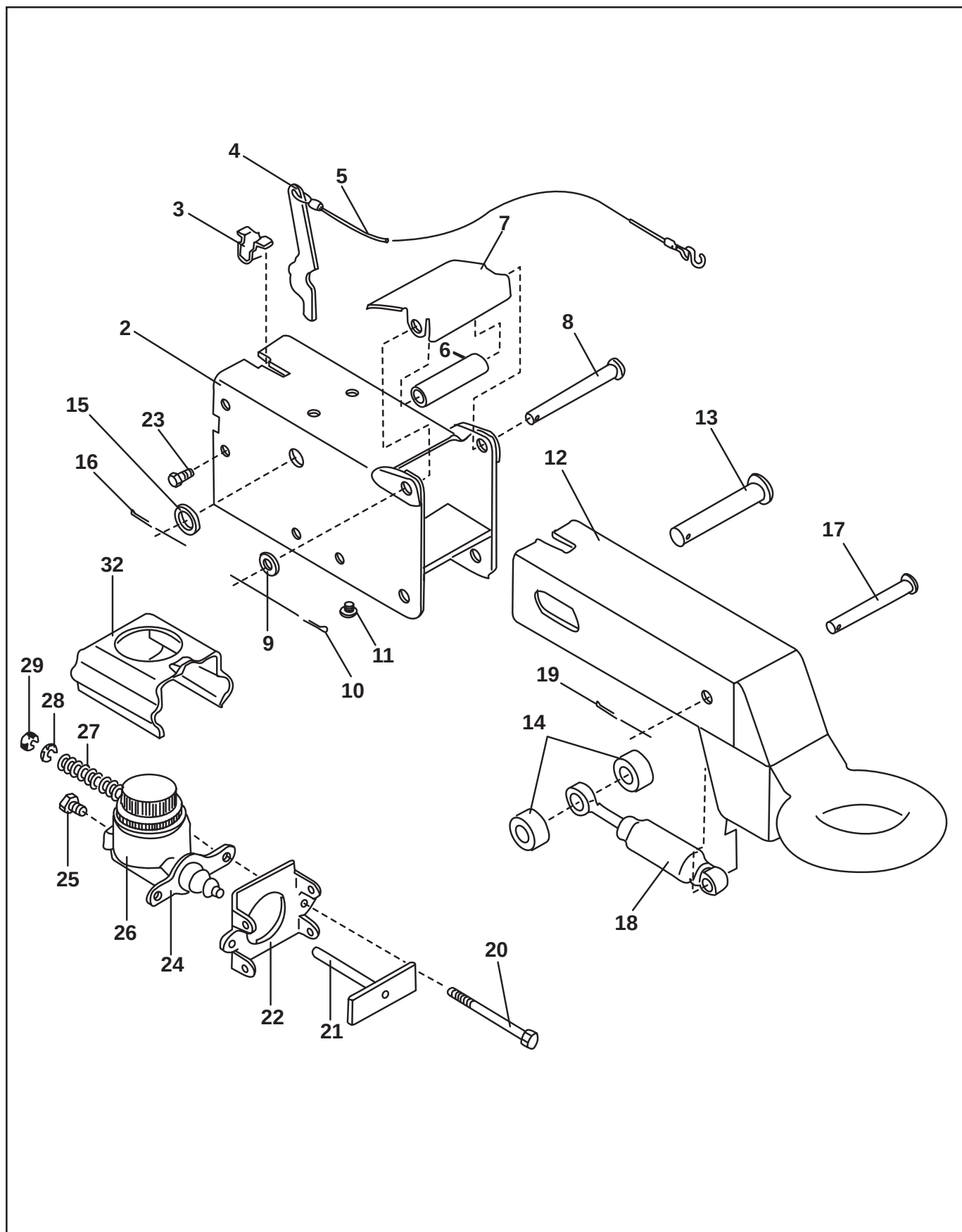
DASH (-) ITEM NOT ILLUSTRATED

REVISION:



ACTUATOR BRAKES ASSEMBLY

B20
PARTS
GROUP 80
FIGURE 08
PAGE 01



REVISION:



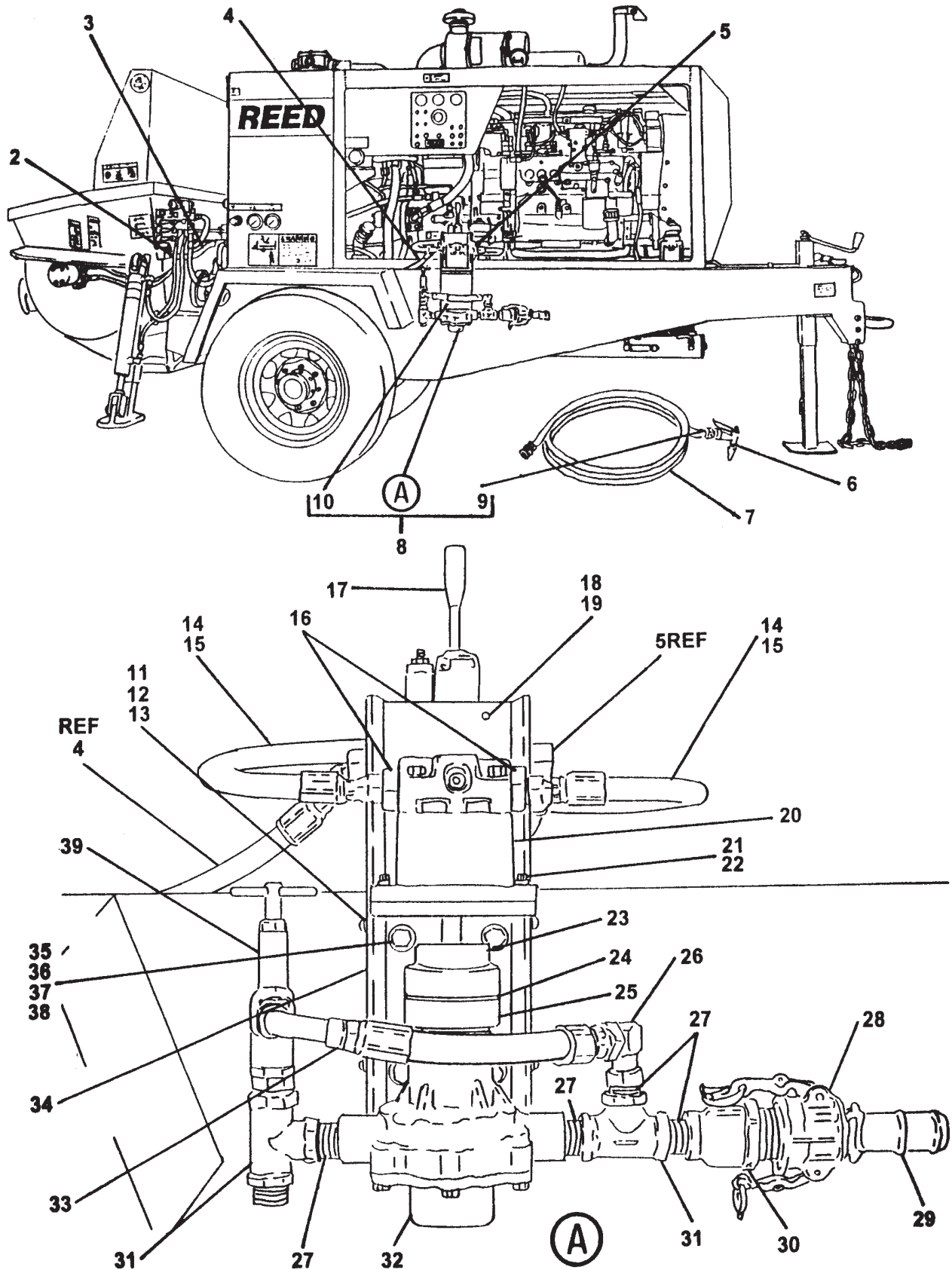
ACTUATOR BRAKES ASSEMBLY

B20
PARTS
GROUP 80
FIGURE 08
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
-1	85807	Assembly, Actuator Brakes (See Group 80, Figure 01 for NHA)	Ref
2		• Case, Outer	1
3		• Spring, Breakaway	1
4		• Lever, Breakaway Pine	1
5		• • S-Hook	1
6		• Roller, Front	1
7		• Cover, Front Roller	1
8		• Pin, Front Roller	1
9		• Washer, Front Roller Pin	1
10		• Pin, Cotter	1
11		• Bearing	2
12		• Lunette Eye, Inner Side	1
13		• Pin, Master	1
14		• Roller, Rear	2
15		• Washer, Master Pin	1
16		• Pin, Cotter	1
17		• Pin, Damper	1
18		• Damper	1
19		• Pin, Cotter	1
20		• Bolt, Hex	2
21		• Rod, Push	1
22		• Plate, Cylinder Mounting	1
23		• Bolt, Self Tapping	4
24		• Cylinder, Master	1
25		• Connector, Orifice	1
26		• Cap, Master Cylinder with Gasket	1
27		• Spirng	2
28		• Washer	2
29		• Nut, Hex	2
-30	71025	• Surge Brake Actuator, 6000 LB	1
-31	71052	• Hydraulic Brake Kit, 12IN x 2	1
-33	71026	• Brake Line Kit (Use With 71052)	1

DASH (-) ITEM NOT ILLUSTRATED

REVISION:





WATER PUMP INSTALLATION

B20
PARTS
GROUP 80
FIGURE 09
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	86400	Installation, Water Pump (See Group 80, Figure 01 for NHA)	Ref
2	86384	• Sleeve, Power Beyond	1
3		• Assembly, Hose	1
4		• Assembly, Hose	1
5		• Assembly, Hose	1
6	800098	• Nozzle, Garden Hose	1
7	86267	• Hose, Garden 20 FT	1
8	86200	• Kit, Wash Pump	1
9	800371	• • Fitting, Garden Hose	1
10	86199	• • Cover, Wash Pump	1
11		• • Screw (Attaching Parts)	4
12		• • Washer, SPL Lock (Attaching Parts)	4
13		• • Washer, Flat (Attaching Parts)	4
14		• • Fitting, 90	2
15	85658-002	• • Assembly, Hose	2
16		• • Fitting, STR	2
17	86397	• • Assembly, Water Pump Control Valve (See Group 80, Figure 10 for DET)	1
18		• • Bolt, (Attaching Parts)	2
19		• • Washer, SPL Lock (Attaching Parts)	2
20	78152	• • Assembly, Water Pump Motor (See Group 80, Figure 11 for DET)	1
21		• • Bolt, Hex (Attaching Parts)	2
22		• • Washer, SPL Lock (Attaching Parts)	2
23	78153	• • Coupling, Wash Motor	1
24	78155	• • Spider	1
25	78154	• • Coupling, Wash Pump	1
26		• • Fitting, 90	1
27	40047	• • Nipple, Close, Pipe	5
28	10947	• • Coupling, Female Cam / Groove	1
29	10948	• • Coupling, Male Cam / Groove	1
30	86398	• • Reducer, Bell	1
31	10228	• • Tee	2
32	78157	• • Assembly, Water Pump (See Group 80, Figure 12 for DET)	1
33	85657-022	• • Assembly, Hose	1
34	86196	• • Weldment, Wash Pump Base	1
35		• • Bolt, Hex (Attaching Parts)	4
36		• • Washer, Flat (Attaching Parts)	8
37		• • Washer, SPL Lock (Attaching Parts)	4
38		• • Nut, Lock (Attaching Parts)	4
39	78128	• • Valve, Relief	1

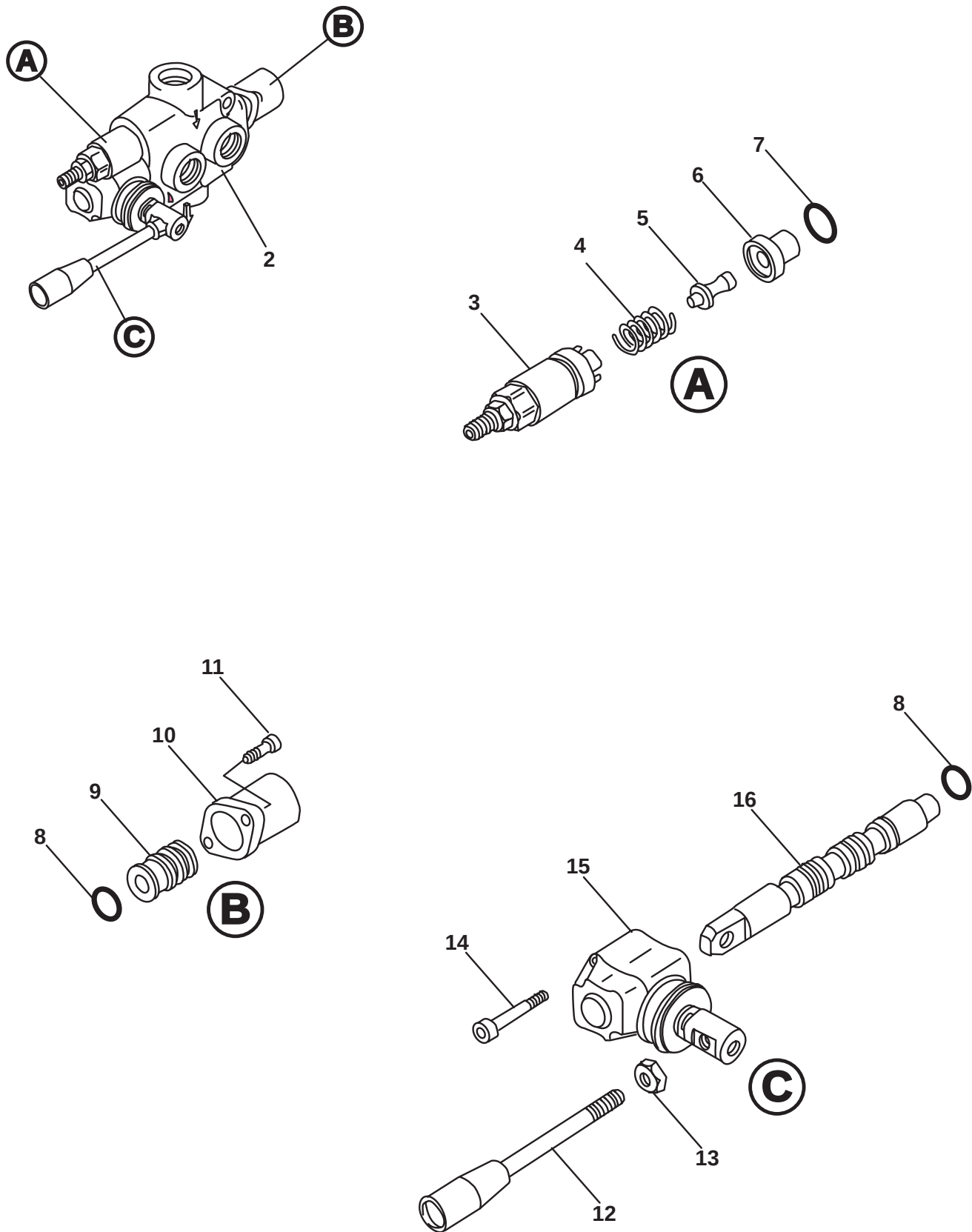
DASH (-) ITEM NOT ILLUSTRATED

REVISION:



WATER PUMP CONTROL VALVE ASSEMBLY

B20
PARTS
GROUP 80
FIGURE 10
PAGE 01



REVISION:



WATER PUMP CONTROL VALVE ASSEMBLY

B20
PARTS
GROUP 80
FIGURE 10
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
-1	86397	1 2 3 4 5 Assembly, Water Pump Control Valve (See Group 80, Figure 09 for NHA)	Ref
2		• Body, Valve	1
3		• Kit, Screw	1
4		• Spring	1
5		• Pin, Screw Kit	1
6		• Ring	1
7		• O-Ring	1
8		• O-Ring	2
9		• Kit, Spool Control	1
10		• Cap, Spool	1
11		• Screw, SOC (Attaching Parts)	2
12		• Handle, Remixer Valve	1
13		• Nut (Attaching Parts)	1
14		• Screw, SOC	2
15		• Lever, L	1
16		• Spool	1

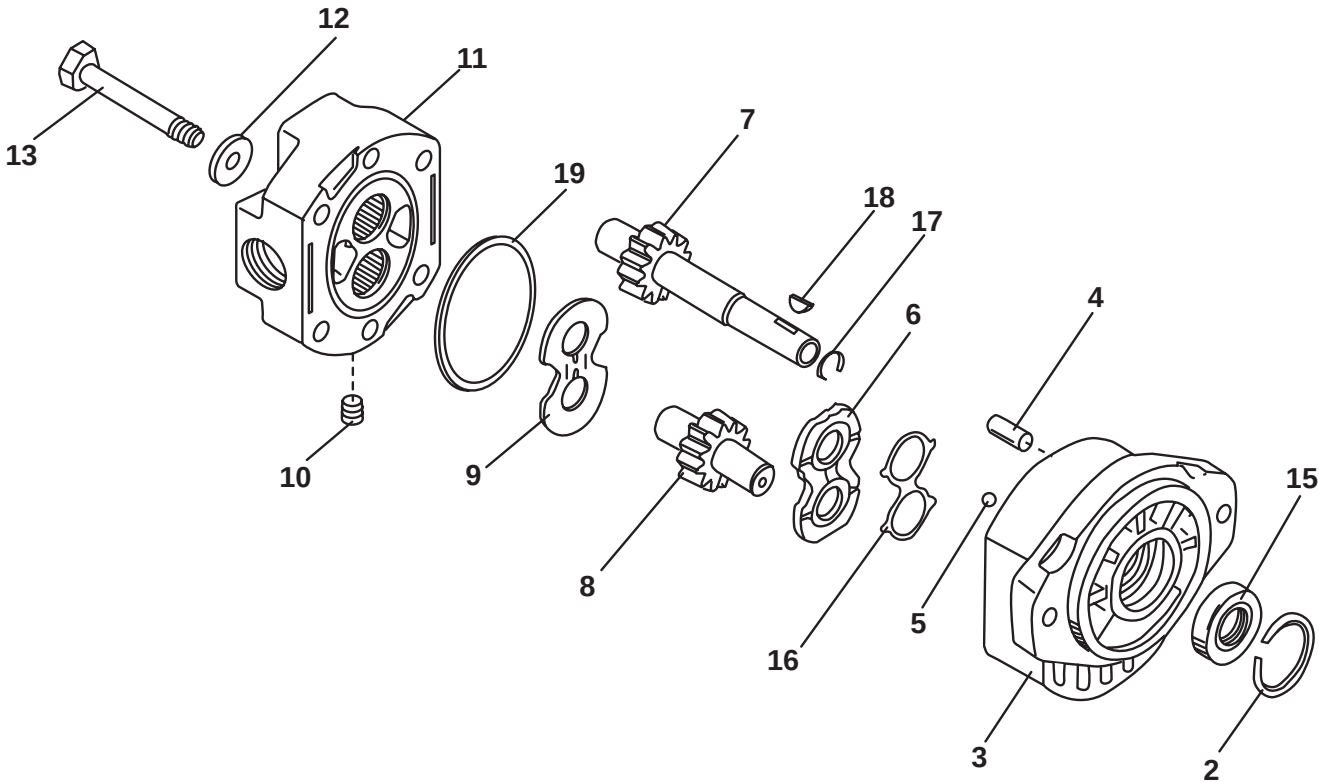
DASH (-) ITEM NOT ILLUSTRATED

REVISION:



WATER PUMP MOTOR
ASSEMBLY

B20
PARTS
GROUP 80
FIGURE 11
PAGE 01



REVISION:



WATER PUMP MOTOR ASSEMBLY

B20
PARTS
GROUP 80
FIGURE 11
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
-1	78152	1 2 3 4 5 Assembly, Wash Pump Motor (See Group 80, Figure 09 for NHA)	Ref
2		• Retainer	1
3		• Assembly, body	1
4		• Pin, Dowell	2
5		• Bearing, Ball	2
6		• Plate, Wear	1
7		• Gear, Driven Wear	1
8		• Gear, Driven Wear	1
9		• Plate, Thrust	1
10		• Plug, Pipe	4
11		• Assembly, Cover	1
12		• Washer (Attaching Parts)	4
13		• Screw, Hex (Attaching Parts)	4
14		• Kit, Seal	1
15		• • Brush	1
16		• • Cap, Brush	1
17		• • Gasket	1
18		• • Cover, Brush	1

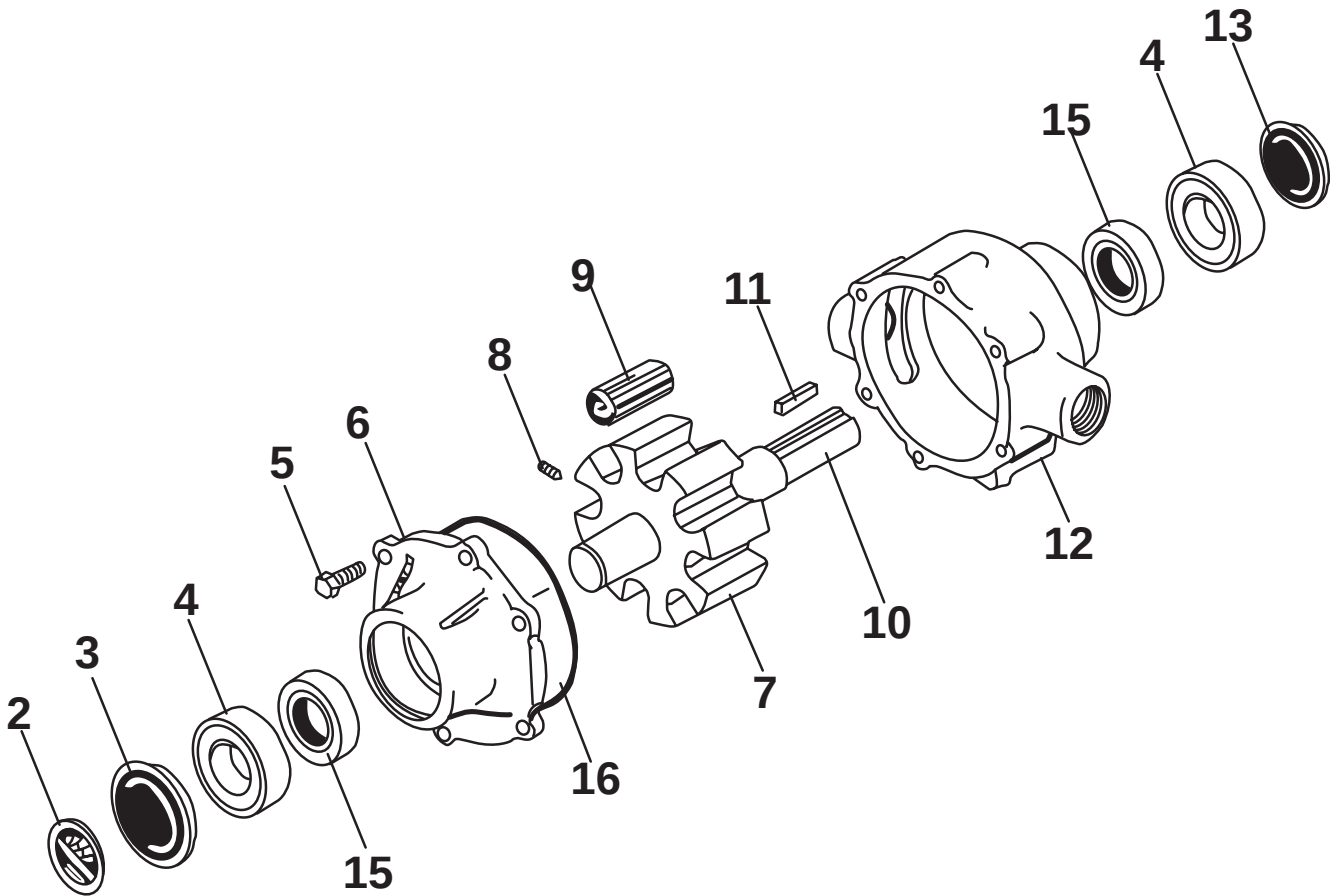
DASH (-) ITEM NOT ILLUSTRATED

REVISION:



WATER PUMP
ASSEMBLY

B20
PARTS
GROUP 80
FIGURE 12
PAGE 01



REVISION:



WATER PUMP ASSEMBLY

B20
PARTS
GROUP 80
FIGURE 12
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	78157	Assembly, Wash Water Pump (See Group 80, Figure 09 for NHA)	Ref
2		• Plate, Name	1
3		• Cover, Bearing Rear	1
4		• Bearing, Sealed Bowl	2
5		• Endplate, (Ni-Resist) with Seal	1
6		• Bolt, Hex (Attaching Parts)	6
7		• Rotor, (Ni-Resist) with Shaft	1
8		• Screw, Set (Attaching Parts)	1
9		• Roller, Teflon	1
10		• Shaft	1
11		• Key	1
12		• Body, (Ni-Resist) with Seal	1
13		• Cover, Bearing Shaft	1
-14	72329	• Kit, Seal	1
15		• • Seal, Buna	2
16		• • Gasket, End Plate O-Ring	1

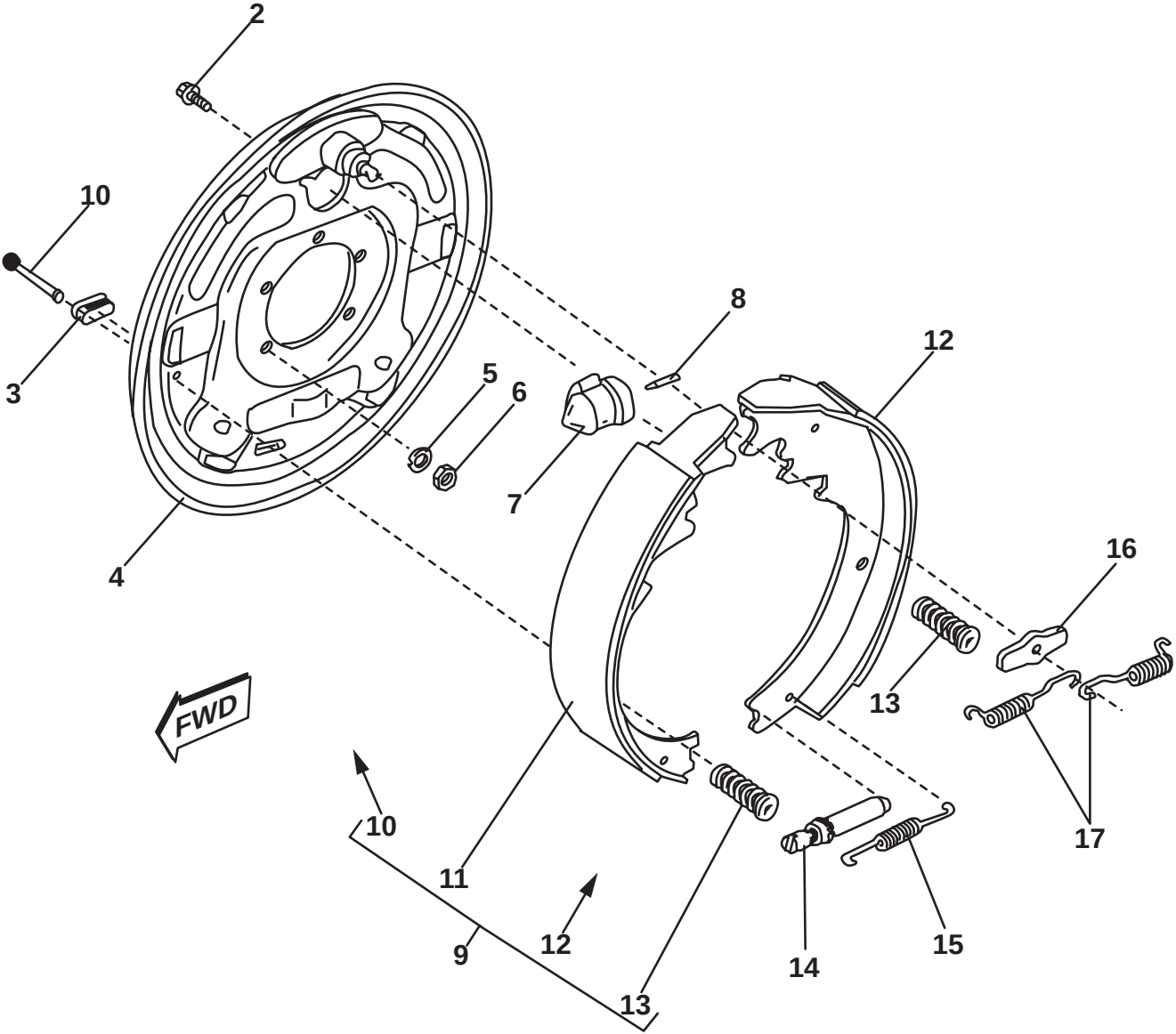
DASH (-) ITEM NOT ILLUSTRATED

REVISION:



NON-OPERATOR SIDE
HYDRAULIC BRAKE ASSEMBLY

B20
PARTS
GROUP 80
FIGURE 13
PAGE 01



REVISION:



NON-OPERATOR SIDE HYDRAULIC BRAKE ASSEMBLY

B20
PARTS
GROUP 80
FIGURE 13
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
-1	80-12	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

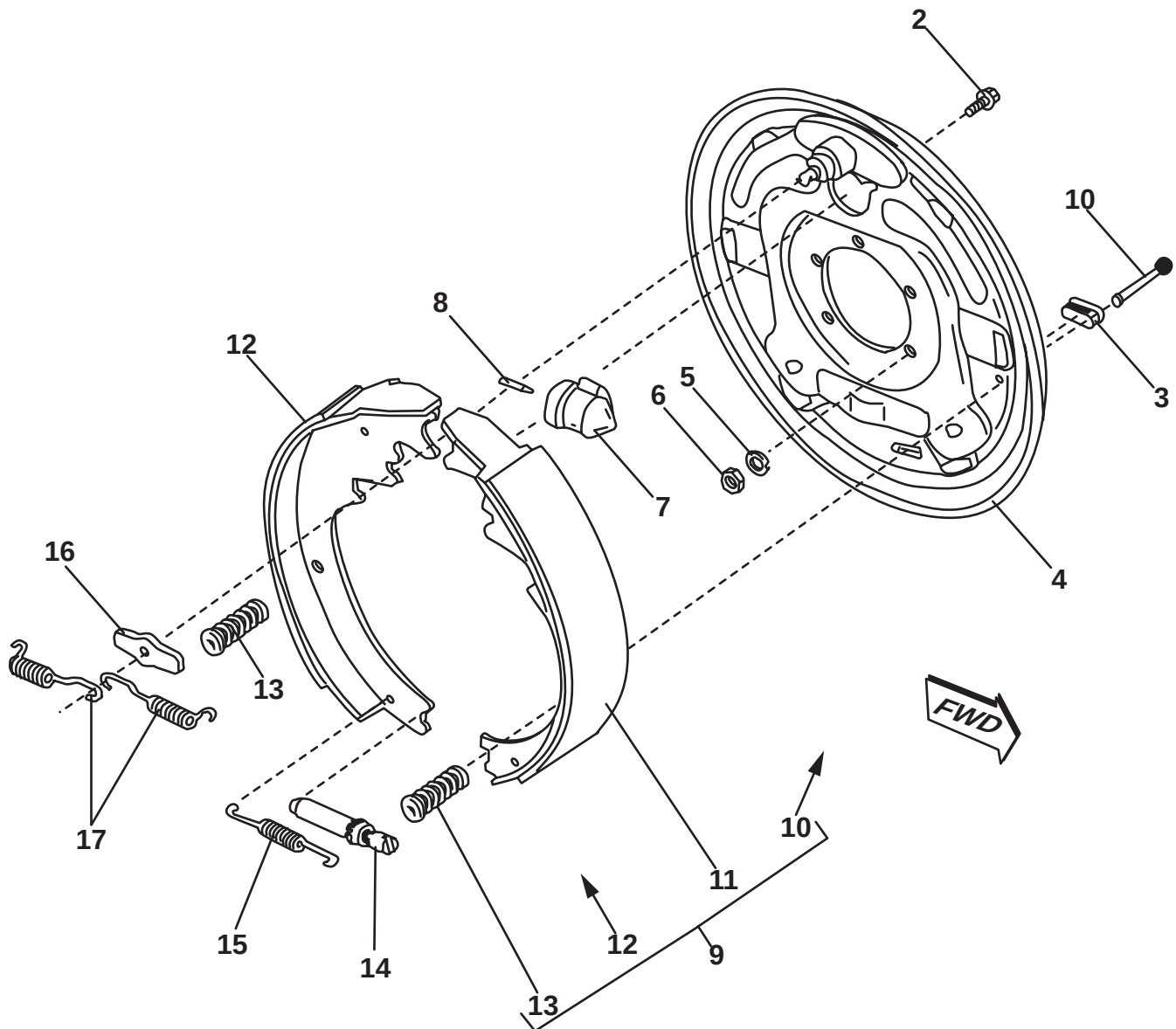
DASH (-) ITEM NOT ILLUSTRATED

REVISION:



OPERATOR SIDE HYDRAULIC BRAKE ASSEMBLY

B20
PARTS
GROUP 80
FIGURE 14
PAGE 01



REVISION:



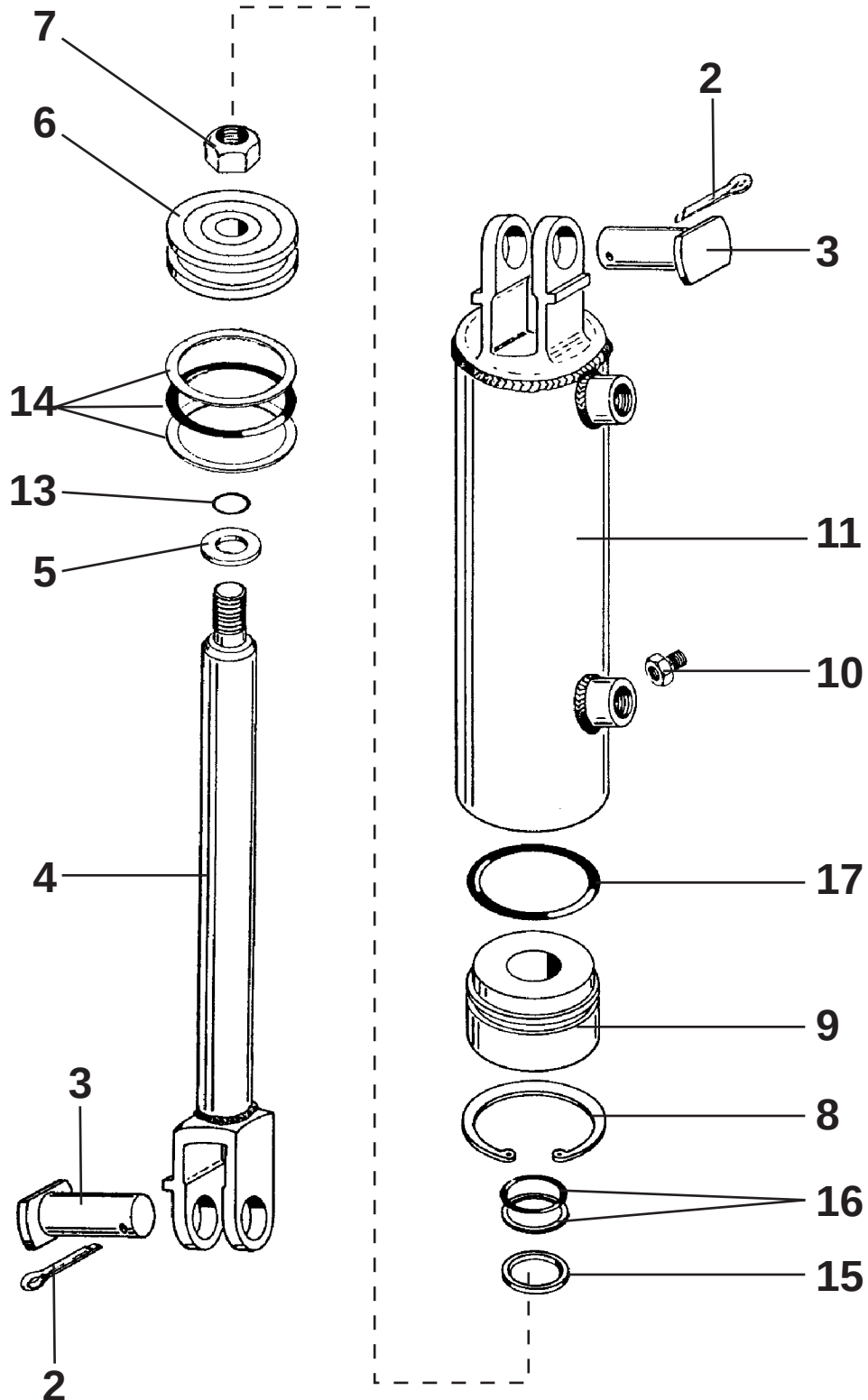
OPERATOR SIDE HYDRAULIC BRAKE ASSEMBLY

B20
PARTS
GROUP 80
FIGURE 14
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	80-13	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, 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

REVISION:





HYDRAULIC OUTRIGGER CYLINDER ASSEMBLY

B20
PARTS
GROUP 80
FIGURE 15
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
-1	85640	1 2 3 4 5 Assembly, Hydraulic Outrigger Cylinder (See Group 80, Figure 01 for NHA)	Ref
2		• Pin, Safety	2
3		• Pin, Clevis	2
4		• Assembly, Shaft	1
5		• Washer, Steel	1
6		• Piston	1
7		• Nut, Piston Lock	1
8		• Ring, Head Lock	1
9		• Head	1
10		• Screw, Head Set	1
11		• Assembly, Tube	1
12	74497	• Kit, Seal	1
13		• • O-Ring, Small	1
14		• • Sub-Assembly, Piston O-Ring	1
15		• • Wiper, Rod	1
16		• • Packing, Shaft (Pair)	1
17		• • O-Ring, Head	1

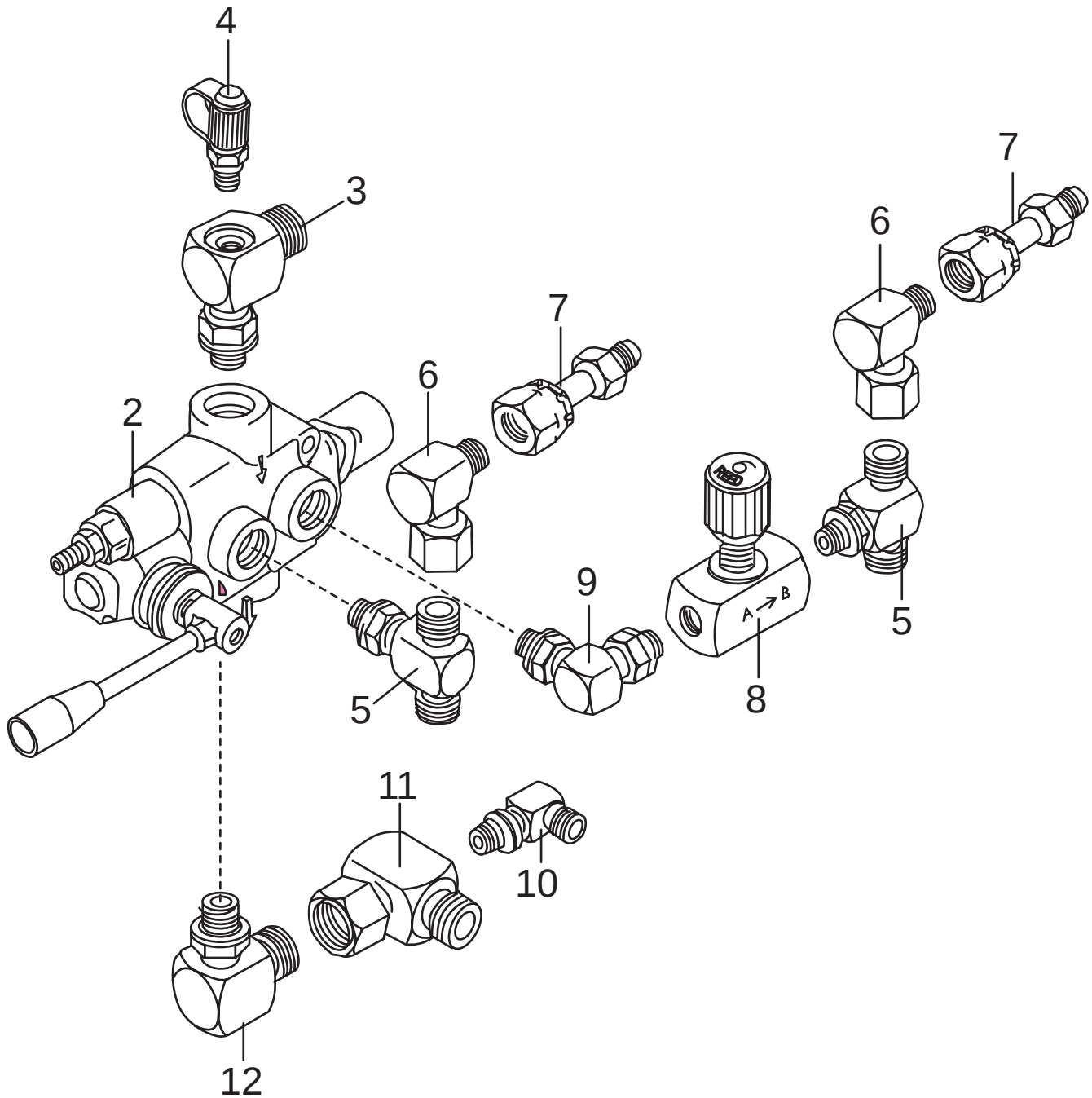
DASH (-) ITEM NOT ILLUSTRATED

REVISION:



1 SPOOL CONTROL VALVE ASSEMBLY

B20
PARTS
GROUP 80
FIGURE 16
PAGE 01



REVISION:



1 SPOOL CONTROL VALVE ASSEMBLY

B20
PARTS
GROUP 80
FIGURE 16
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	80-16	Assembly, 1 Spool Control Valve (See Group 80, Figure 01 for NHA)	Ref
2	74584	• Sub-Assembly, 1 Spool Control Valve (See Group 80, Figure 17 for DET)	1
3		• Tee, Special Drill	1
4	78593	• Fitting, Mini Check (Port)	1
5		• Tee	2
6		• Fitting, 90	2
7		• Fitting, Connector	2
8		• Controller, Check	1
9		• Fitting, 90	1
10		• Fitting, 90	1
11		• Tee, Special Drill	1
12		• Fitting, 90	1

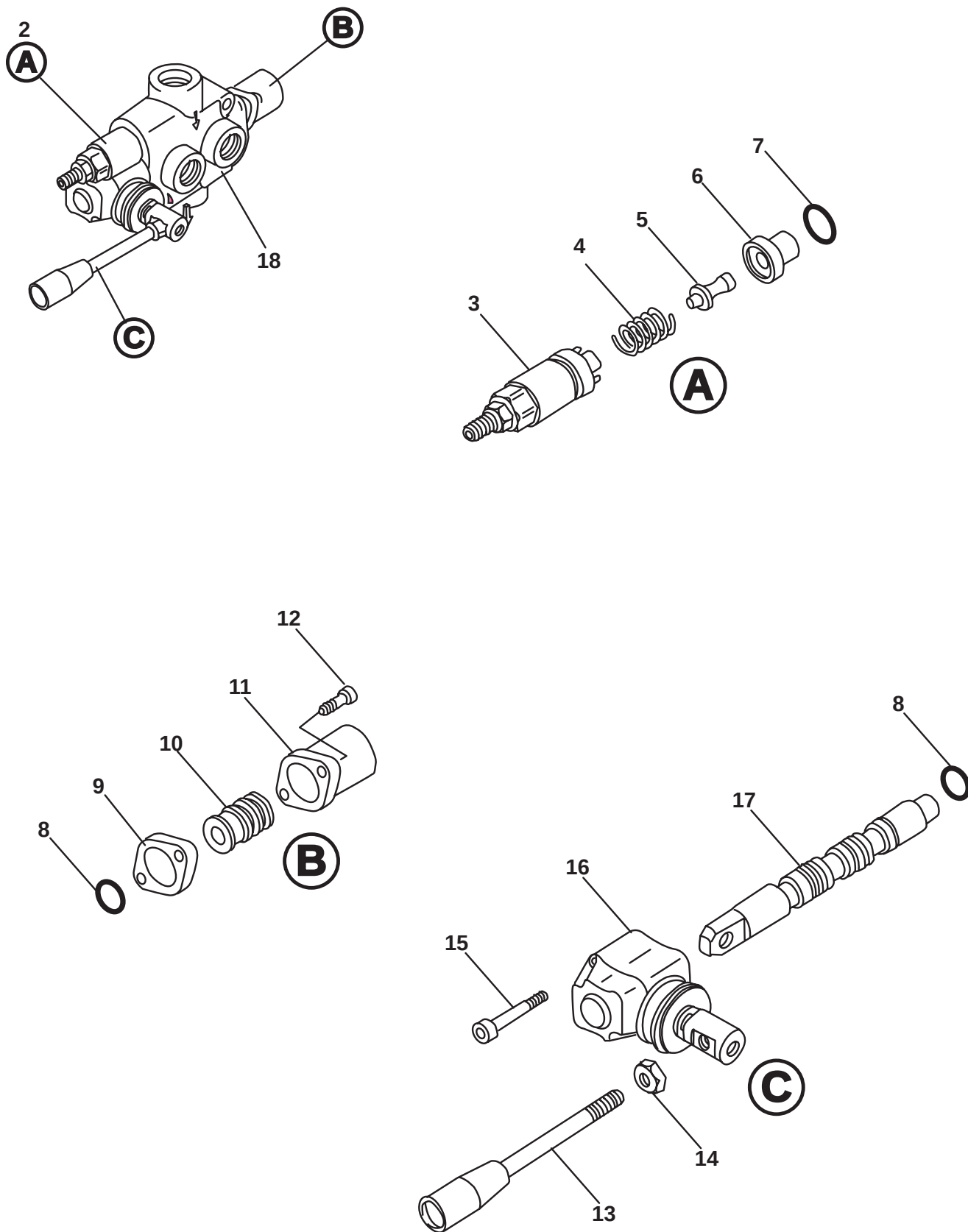
DASH (-) ITEM NOT ILLUSTRATED

REVISION:



1 SPOOL CONTROL VALVE SUBASSEMBLY

B20
PARTS
GROUP 80
FIGURE 17
PAGE 01



REVISION:



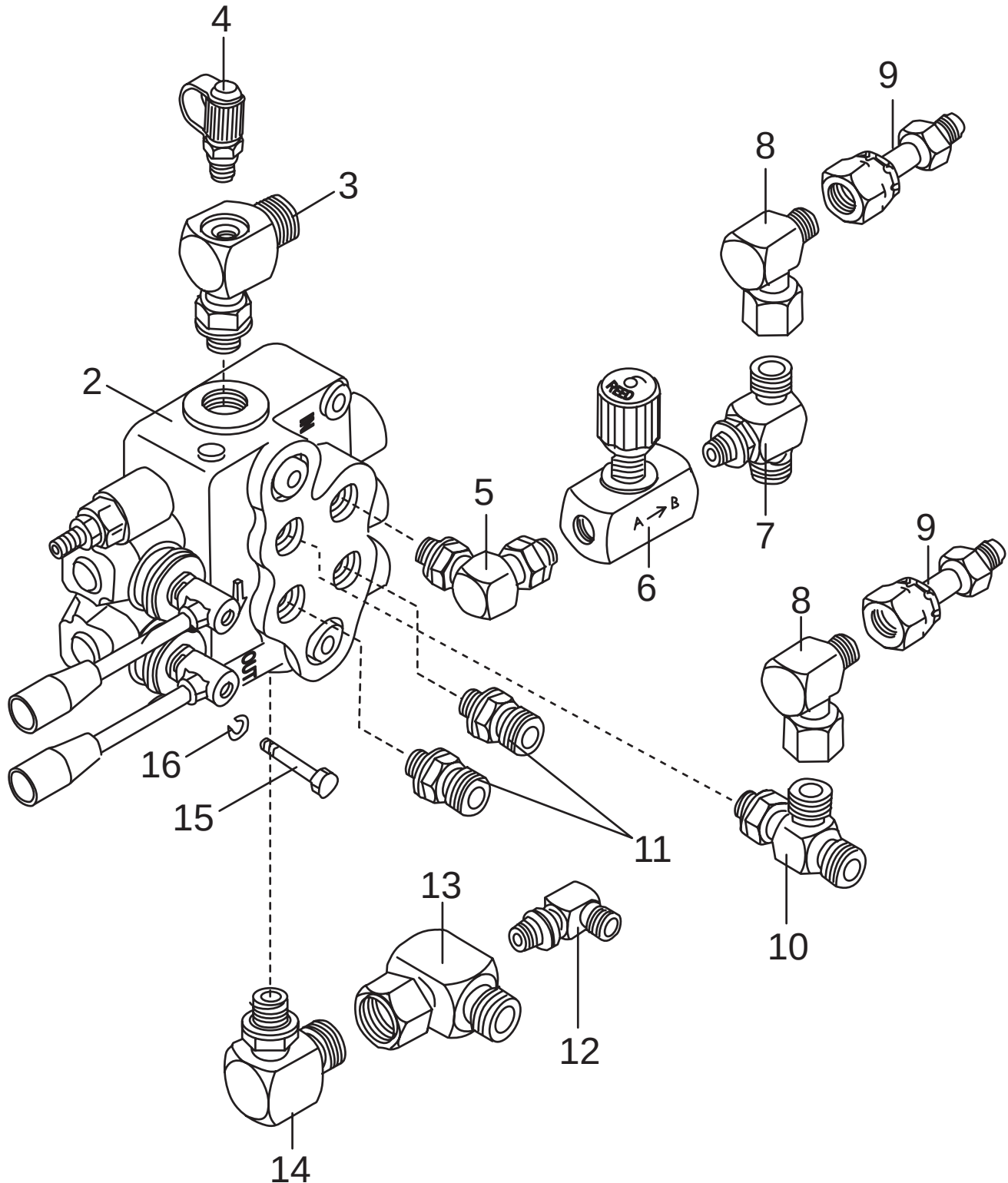
1 SPOOL CONTROL VALVE SUBASSEMBLY

B20
PARTS
GROUP 80
FIGURE 17
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	74584	Sub-Assembly, 1 Spool Control Valve (See Group 80, Figure 16 for NHA)	Ref
2	85706	• • Cartidge, Relief	1
3		• • Kit, Screw	1
4		• • Spring	1
5		• • Pin, Screw Kit	1
6		• • Ring	1
7		• • O-Ring	1
8		• O-Ring	2
9		• Spacer	1
10		• Kit, Spool, Control	1
11		• Cap, Spool	1
12		• Screw, SOC (Attaching Parts)	2
13		• Handle, Remixer Valve	1
14		• Nut (Attaching Parts)	1
15		• Screw, SOC	2
16		• Lever, L	1
17		• Spool	1
18		• Body, Valve	1

DASH (-) ITEM NOT ILLUSTRATED

REVISION:





2 SPOOL CONTROL VALVE ASSEMBLY

B20
PARTS
GROUP 80
FIGURE 18
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
		1 2 3 4 5	Ref
-1	80-18	Assembly, 2 Spool Control Valve (See Group 80, Figure 01 for NHA)	Ref
2	74585	• Sub-Assembly, 2 Spool Control Valve (See Group 80, Figure 20 for DET)	1
3		• tee, Special Drill	1
4	78593	• Fitting, Mini Check (Port)	1
5		• Fitting, 90	1
6		• Controller, Check	1
7		• Tee	1
8		• Fitting	2
9		• Fitting, Connector	1
10		• Tee	1
11		• Fitting, 90	2
12		• Fitting, 90	1
13		• Tee, Special Drill	1
14		• Fitting, 90	1
15		• Bolt, Hex	2
16		• Washer, SPL Lock	2

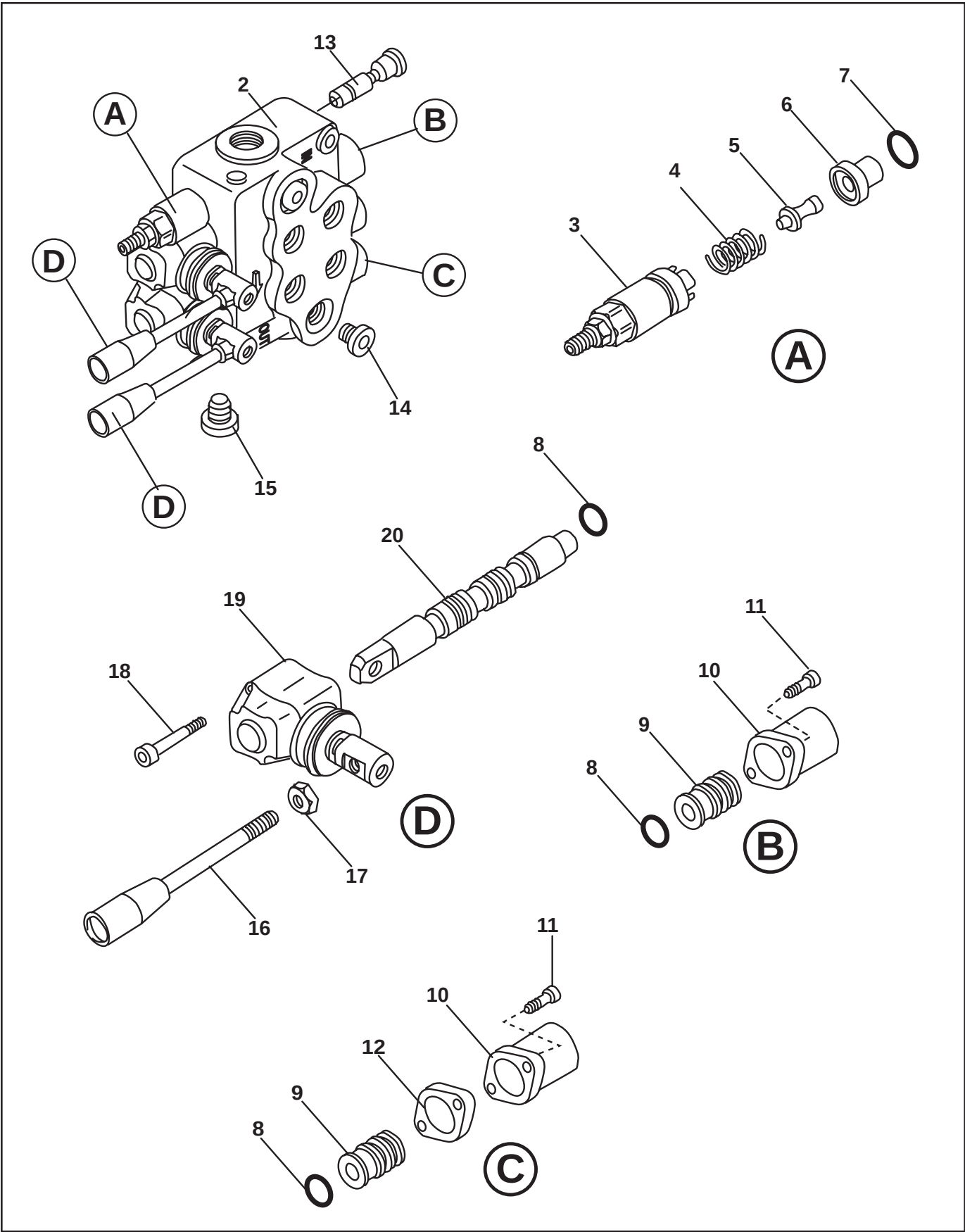
DASH (-) ITEM NOT ILLUSTRATED

REVISION:



2 SPOOL CONTROL VALVE SUBASSEMBLY

B20
PARTS
GROUP 80
FIGURE 19
PAGE 01



REVISION:



2 SPOOL CONTROL VALVE SUBASSEMBLY

B20
PARTS
GROUP 80
FIGURE 19
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	74585	Sub-Assembly, 2 Spool Control Valve (See Group 80, Figure 18 for NHA)	Ref
2	85706	• Cartridge, Relief	1
3		• • Kit, Screw	1
4		• • Spring	1
5		• • Pin, Screw Kit	1
6		• • Ring	1
7		• • O-Ring	1
8		• O-ring	4
9		• Kit, Spool Control	2
10		• Cap, Spool	2
11		• Screw, SOC (Attaching Parts)	4
12		• Spacer	1
13		• Kit, VRS	1
14		• Plug	2
15		• Plug	1
16		• Handle, Remixer Valve	2
17		• Nut (Attaching Parts)	2
18		• Screw, SOC	4
19		• Lever, L	2
20		• Spool	2
21		• Body, Valve	1

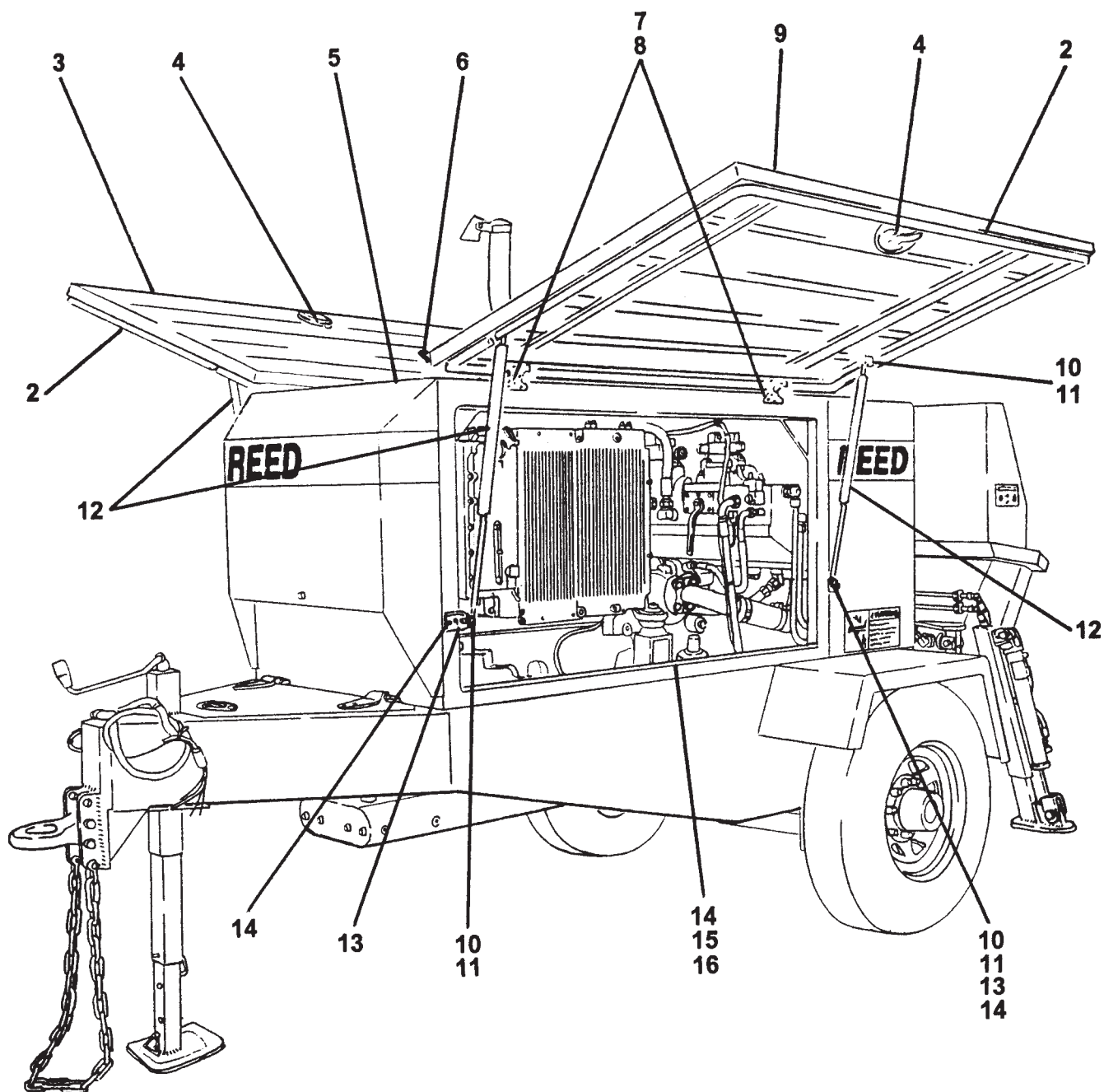
DASH (-) ITEM NOT ILLUSTRATED

REVISION:



SIDE DOOR ASSEMBLY

B20
PARTS
GROUP 80
FIGURE 20
PAGE 01



REVISION:



SIDE DOOR ASSEMBLY

B20
PARTS
GROUP 80
FIGURE 20
PAGE 02

ITEM NO.	REED'S PART NO.	DESCRIPTION	QTY
		1 2 3 4 5	
-1	85943	Assembly, B-Series Side Door (See Group 80, Figure 01 for NHA)	Ref
2	73163	• Seal, 3/8 Bulb 15.75 FT Trim	A/R
3	85968	• Weldment, B-Series Right Hand Side Door	1
4	73767	• Latch, D Ring with Key	2
5	86144	• Structure, Lifting	1
6	71364	• Seal, 3/8 Bulb 3.5 FT Trim	A/R
7	85928	• Hinge, Machining	4
8	85945	• Screw, Button Head Cap	12
9	85967	• Weldment, B-Series Left Hand Door	1
10	75215	• Stud, Ball	8
11		• Washer, Flat	A/R
12	75214	• Spring, 130 LBS Gas	4
13	85931	• Tab, Frame Gas Spring	2
14	85944	• Screw, Button Head Cap	16
15	85939	• Angle, Left Hand Side Door	1
16	85940	• Angle, Right Hand Side Door	1

DASH (-) ITEM NOT ILLUSTRATED

REVISION: