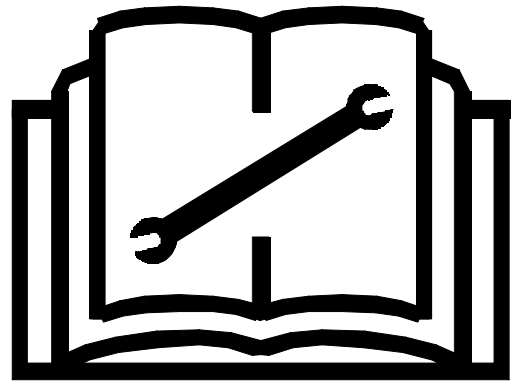


# ***HAMMERHEAD***™

***HYDROBURST  
HB3038, HB5058, HB80, HB125***



## **Parts Manual**

**HYDROBURST HB3038, HB5058, HB80 & HB125 s/n**

Part No. PM1251

# INTRODUCTION

## HOW TO USE THE MANUAL

This manual contains illustrations and parts list of components and assemblies which make up the machine. Each page consists of the name of the assembly or component, a figure number, reference numbers, part numbers, part names, and the quantities of the parts used.

Assembly or component names help identify the illustration and parts for each figure. This name also helps locate the general area of the machine where the assembly or component can be located.

Figure numbers are used to identify each assembly or component and to group these assemblies or components into major categories.

Reference numbers shown in a column refers to the numbered parts in the illustration. This ties the part in the illustration to the part number and description in the parts list. Part numbers are used to identify individual parts or part assemblies.

Part descriptions provide the name of the part, plus additional information such as dimensional specifications and what parts are grouped together to form part assemblies, which helps you identify the part(s).

Quantities listed for each figure are only for that assembly or component and not the total used per machine unless stated so in the "Remarks" column.

Parts are listed by part number in numerical order in the back portion of the manual. After each part number is a list of references where the part is used in the manual.

This parts manual is not intended to be a complete guide for machine service or repairs. Contact your HammerHead dealer for any of your service or technical requirements.

## ORDERING PARTS

Parts for repair or replacement are available through the worldwide network of authorized HammerHead dealers.

Use only authorized HammerHead parts for repair or replacement. Always give the serial number and model number of the machine for which parts are being

ordered. When ordering parts for component(s), which are not manufactured by HammerHead Manufacturing, also give the serial number of that component(s). Order all parts by part number, part name, and quantity needed.

## UPDATING AND REORDERING MANUALS

The parts lists, illustrations, and specifications in this manual are based on the latest information available at the time of publication. Your machine may have product improvements and options not yet contained in this manual. Please check the web site [www.hammerheadmole.com](http://www.hammerheadmole.com) for any updates.

Earth Tool Co., LLC reserves the right to make changes at any time without notice or obligation to you.

Your dealer will receive notice of these changes and can assist you with accurate parts identification when ordering.

A copy of this manual is supplied with each machine. Additional copies are available through your dealer. When ordering additional manuals, use the reorder number listed on the front cover and the quantity needed.

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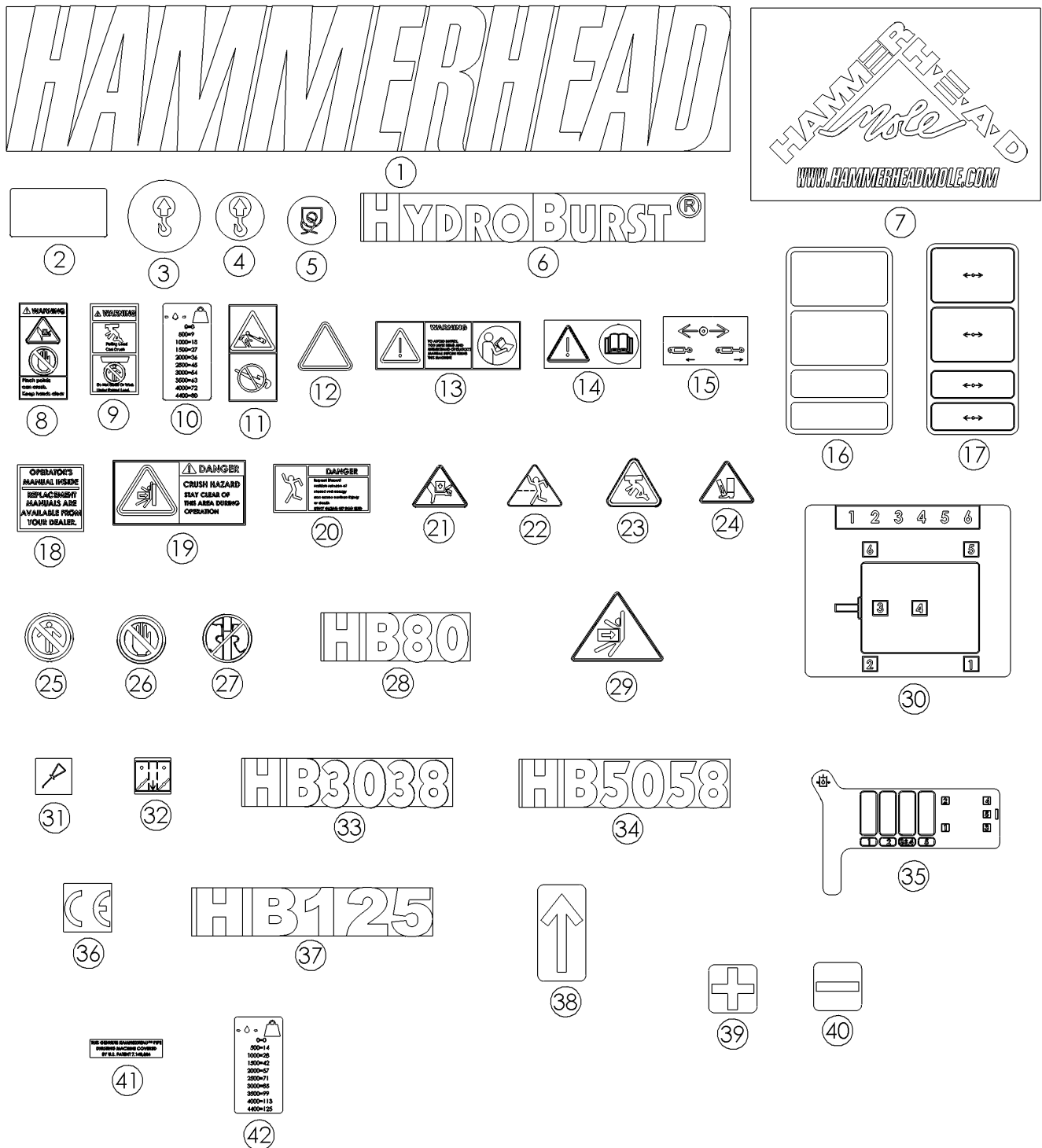
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**HYDROBURST DECALS**

**SECTION 10**

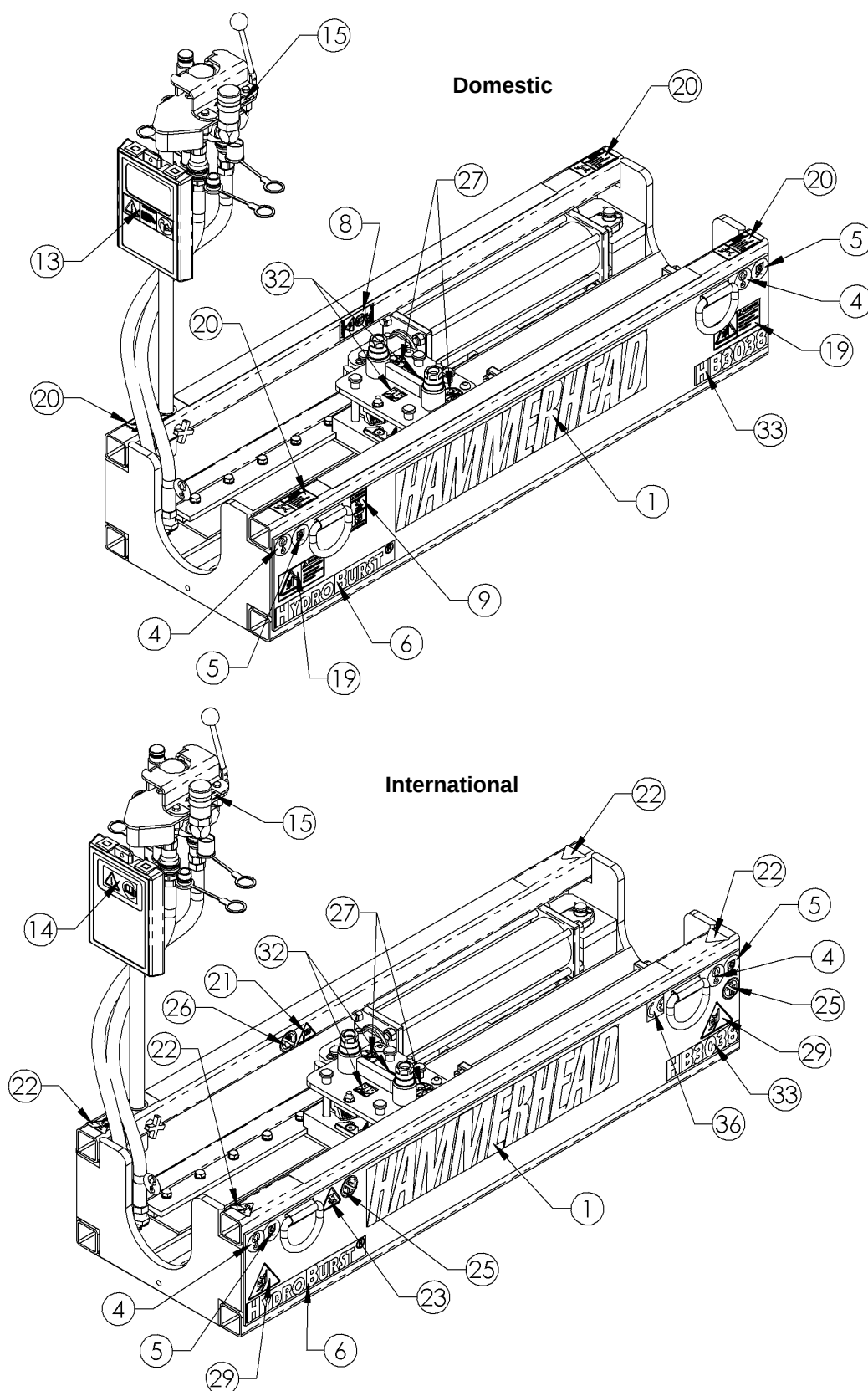
# DECALS - ALL MODELS

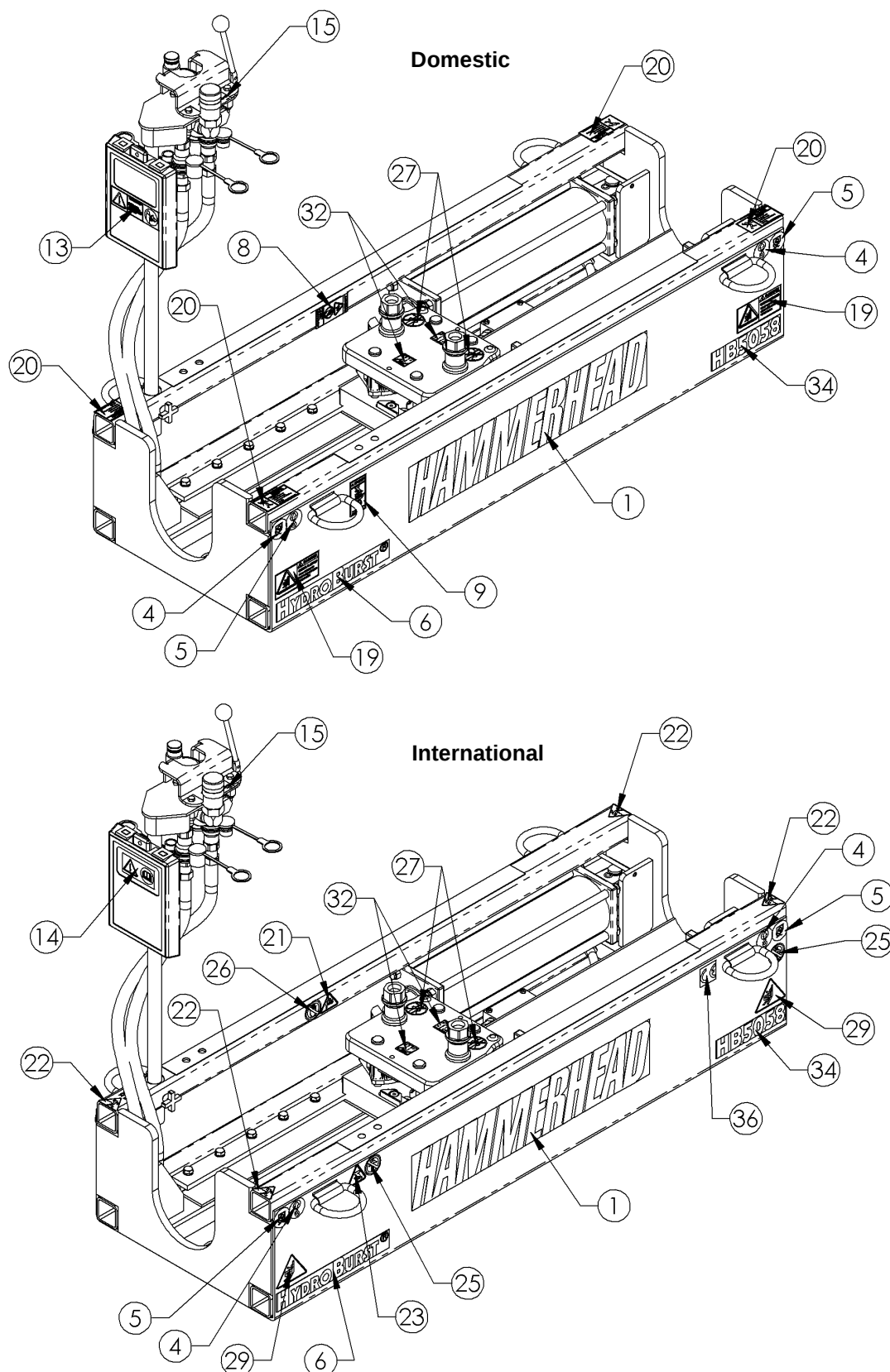
## FIGURE 10-1



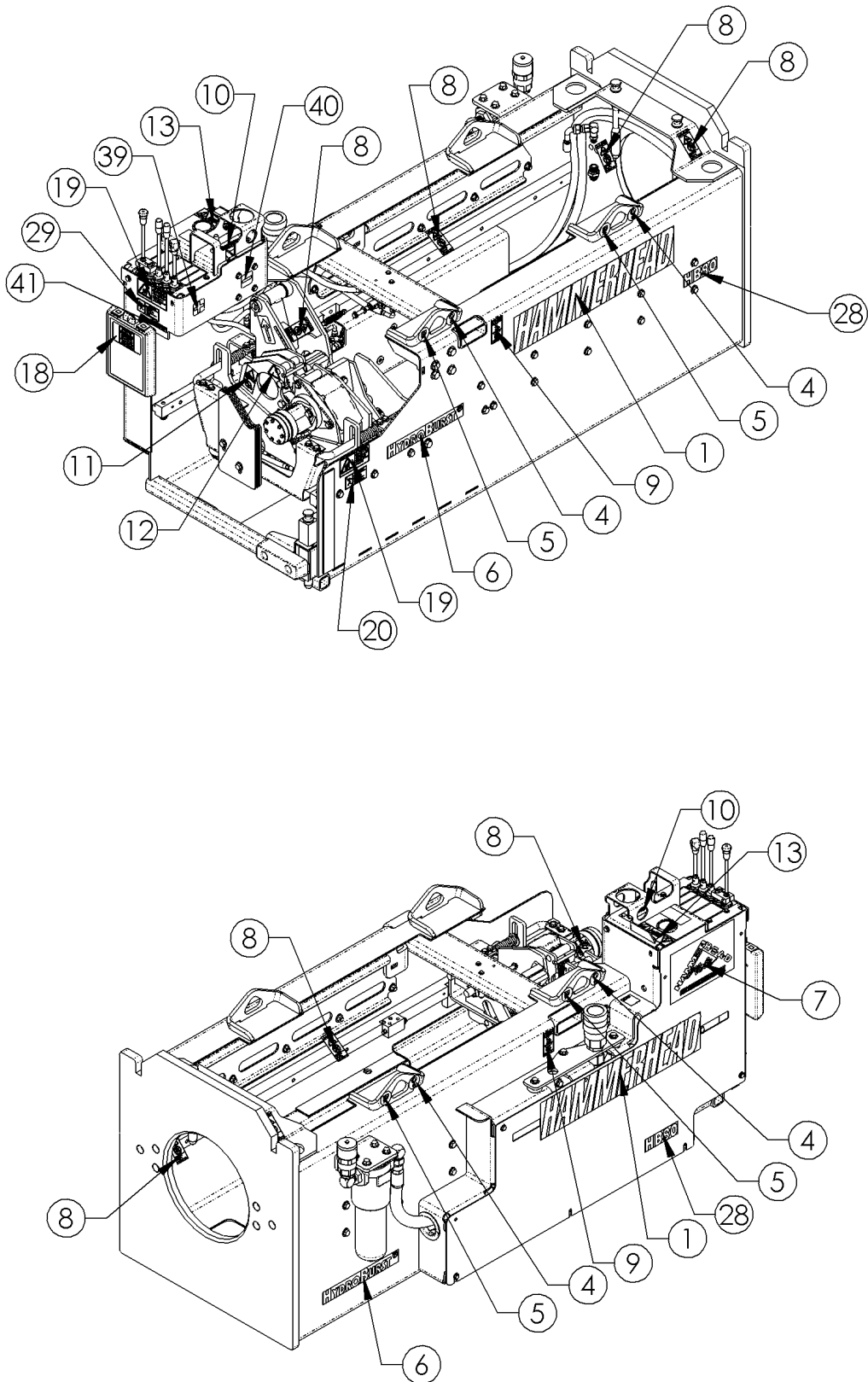
## DECALS - ALL MODELS

| Item No. | Vemeer No. | Description                 | Comments |
|----------|------------|-----------------------------|----------|
| 1        | 296270-643 | DECAL, HAMMERHEAD 30        |          |
| 2        | 296285-253 | DECAL, GAUGE                |          |
| 3        | 296276-492 | DECAL, LIFT POINT           |          |
| 4        | 296260-903 | DECAL, LIFT POINT           |          |
| 5        | 296276-455 | DECAL, TIE DOWN             |          |
| 6        | 296260-862 | DECAL, HYDROBURST           |          |
| 7        | 296270-645 | DECAL, WWW.HAMMERHEAD       |          |
| 8        | 296274-915 | DECAL, PINCH POINT          |          |
| 9        | 296276-469 | DECAL, FALLING LOAD         |          |
| 10       | 296285-254 | DECAL, TONNAGE              |          |
| 11       | 296276-489 | DECAL, NO WRENCH            |          |
| 12       | 296276-488 | DECAL, ROTATING SHAFT       |          |
| 13       | 296287-123 | DECAL, READ OP MANUAL       |          |
| 14       | 296287-124 | DECAL, READ OP MANUAL (INT) |          |
| 15       | 296276-476 | DECAL, VALVE CONTROL        |          |
| 16       | 296285-252 | DECAL, CONTROL HB80         |          |
| 17       | 296276-486 | DECAL, CONTROL              |          |
| 18       | 70000-294  | DECAL, OP'S MANUAL          |          |
| 19       | 296278-488 | DECAL, CRUSH HAZARD         |          |
| 20       | 296287-201 | DECAL, IMPACT HAZARD        |          |
| 21       | 296274-919 | DECAL, HAND CRUSH           |          |
| 22       | 296287-202 | DECAL, IMPACT HAZARD (INT)  |          |
| 23       | 296274-921 | DECAL, BODY CRUSH           |          |
| 24       | 296278-486 | DECAL, FOOT CRUSH           |          |
| 25       | 296274-922 | DECAL, STAY CLEAR           |          |
| 26       | 296274-920 | DECAL, NO HANDS             |          |
| 27       | 296253-041 | DECAL, NO JOINT GRIP        |          |
| 28       | 296285-251 | DECAL, HB80                 |          |
| 29       | 296278-487 | DECAL, BODY CRUSH           |          |
| 30       | 296276-491 | DECAL, GREASE               |          |
| 31       | 296276-490 | DECAL, OIL                  |          |
| 32       | 7001A-753  | DECAL, PUSH ROD             |          |
| 33       | 296260-857 | DECAL, HB3038               |          |
| 34       | 296260-863 | DECAL, HB5058               |          |
| 35       | 296276-487 | DECAL, STABILIZER           |          |
| 36       | 70000-997  | DECAL, C E                  |          |
| 37       | 296273-042 | DECAL, HB125                |          |
| 38       | 296285-428 | DECAL, ARROW                |          |
| 39       | 296285-426 | DECAL, PLUS                 |          |
| 40       | 296285-427 | DECAL, MINUS                |          |
| 41       | 296296-879 | DECAL, PATENT               |          |
| 42       | 296287-170 | DECAL, TONNAGE              |          |

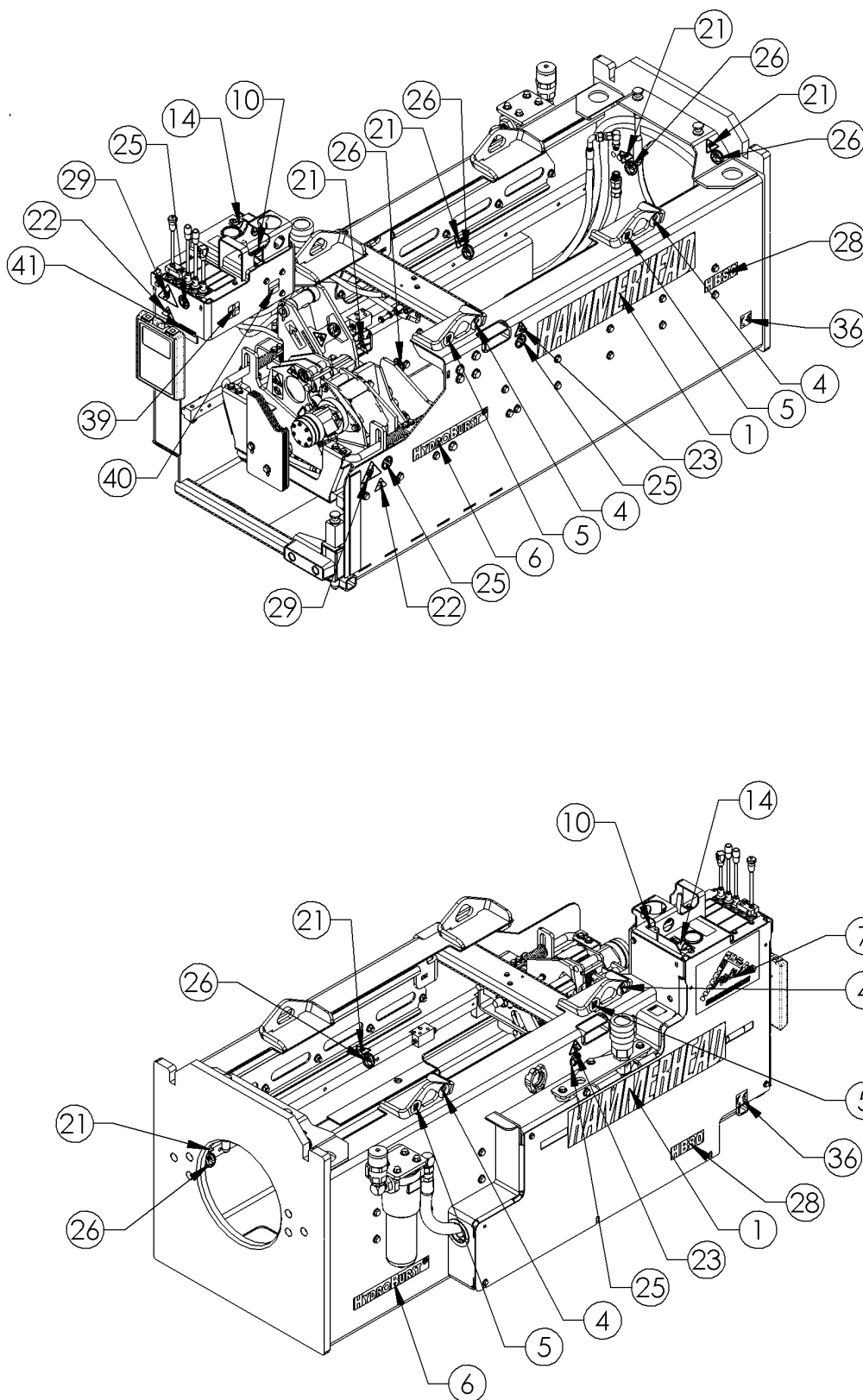
**DECAL LOCATIONS - HB3038**  
**FIGURE 10-2**

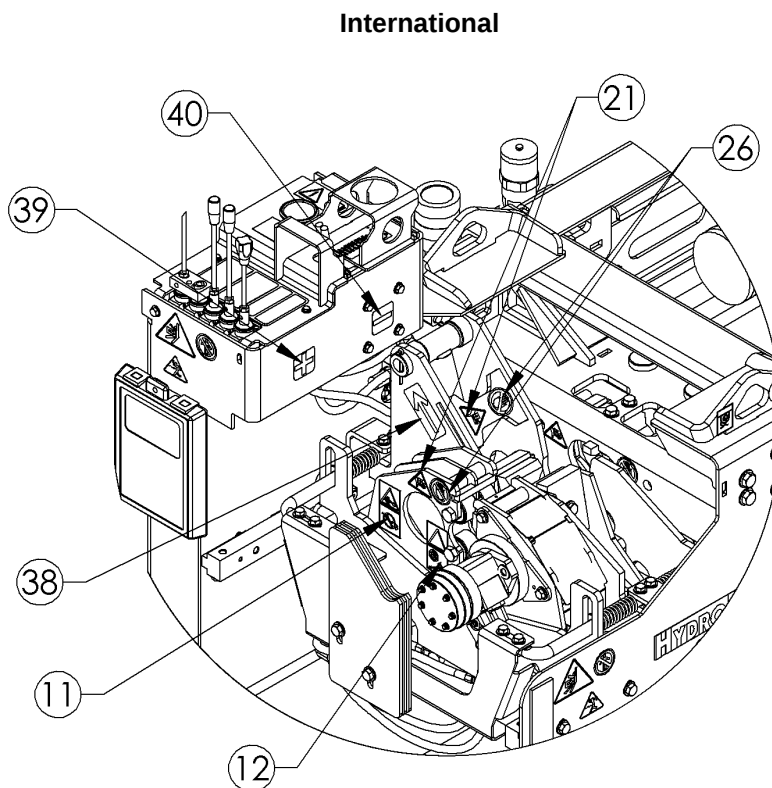
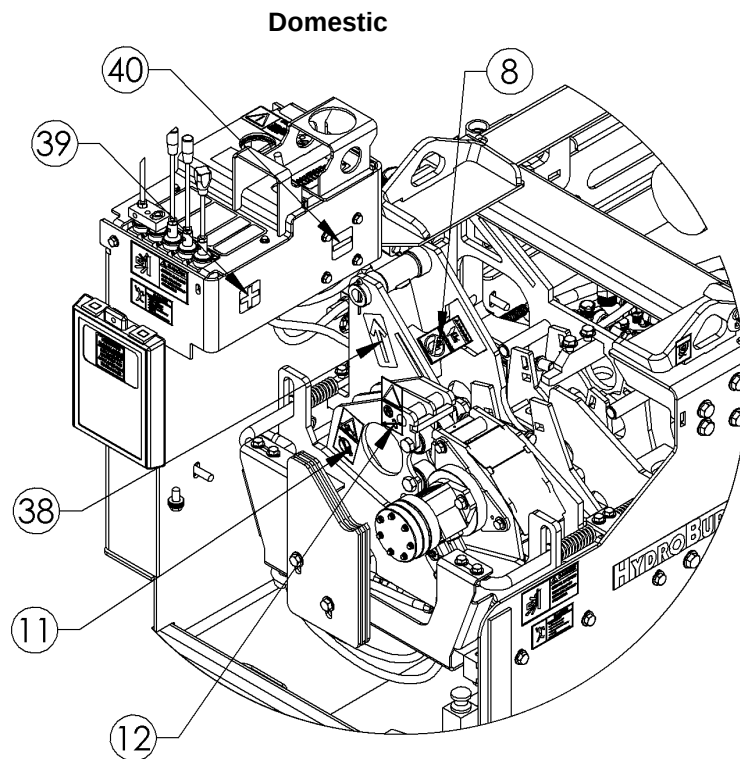
**DECAL LOCATIONS - HB5058**  
**FIGURE 10-3**

**DECAL LOCATIONS - HB80 (DOMESTIC)**  
**FIGURE 10-4**



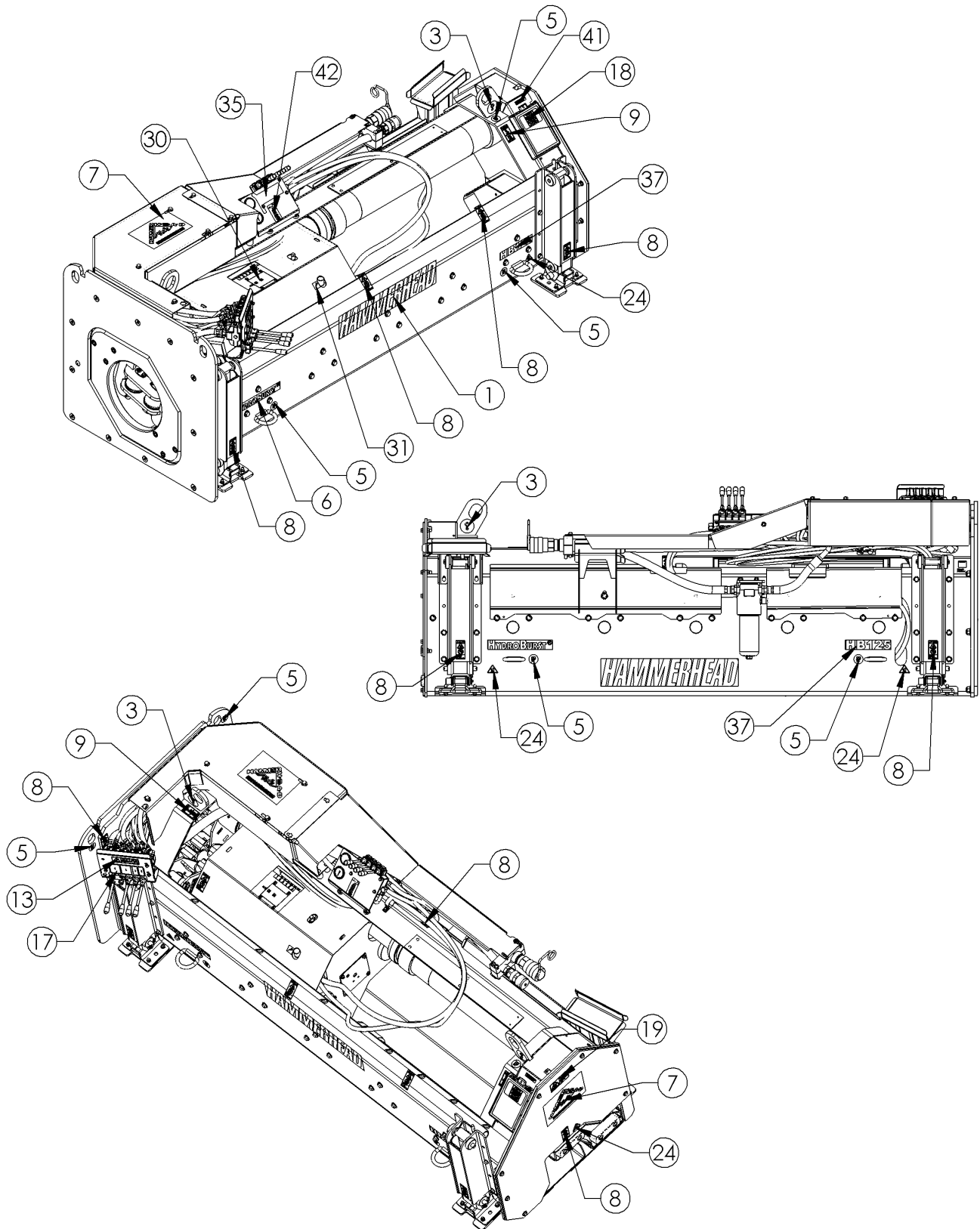
**DECAL LOCATIONS - HB80 (INTERNATIONAL)**  
**FIGURE 10-5**



**DECAL LOCATIONS - HB80 SPINNER**  
**FIGURE 10-6**

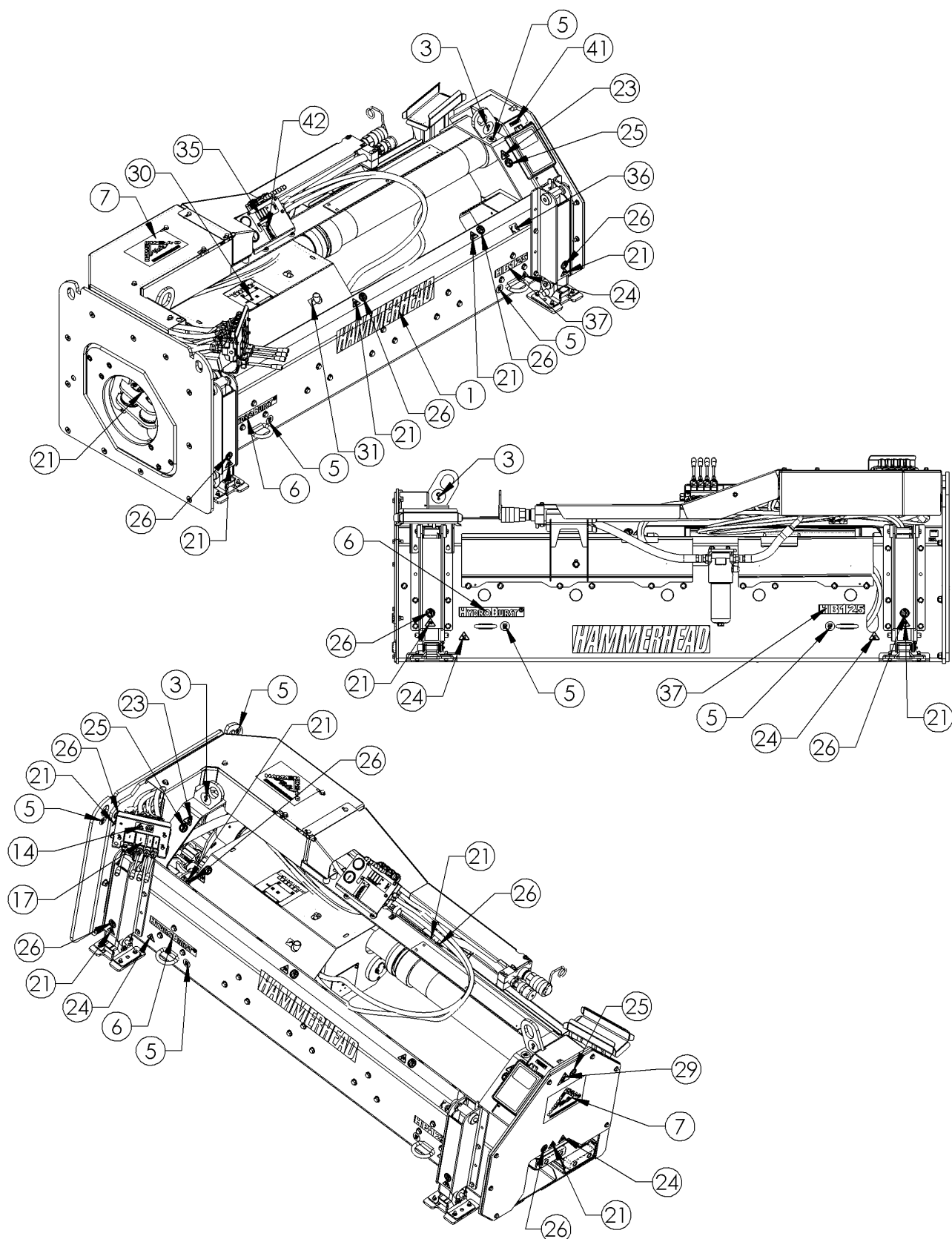
## DECAL LOCATIONS - HB125 (DOMESTIC)

FIGURE 10-7



## DECAL LOCATIONS - HB125 (INTERNATIONAL)

FIGURE 10-8

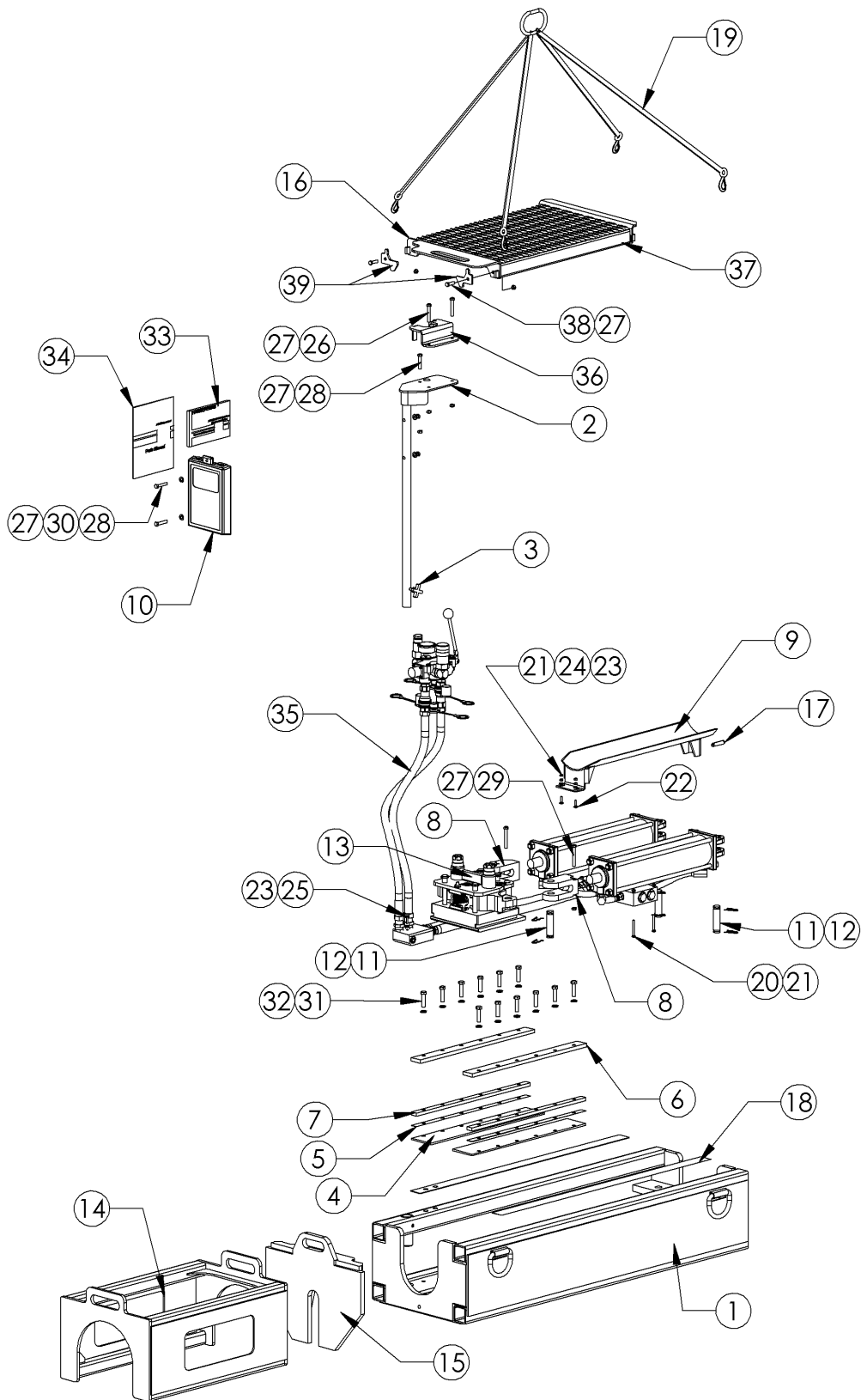


**HB3038 & HB5058 HYDROBURST**

**SECTION 20**

## MAIN ASSEMBLY - HB3038

FIGURE 20-1

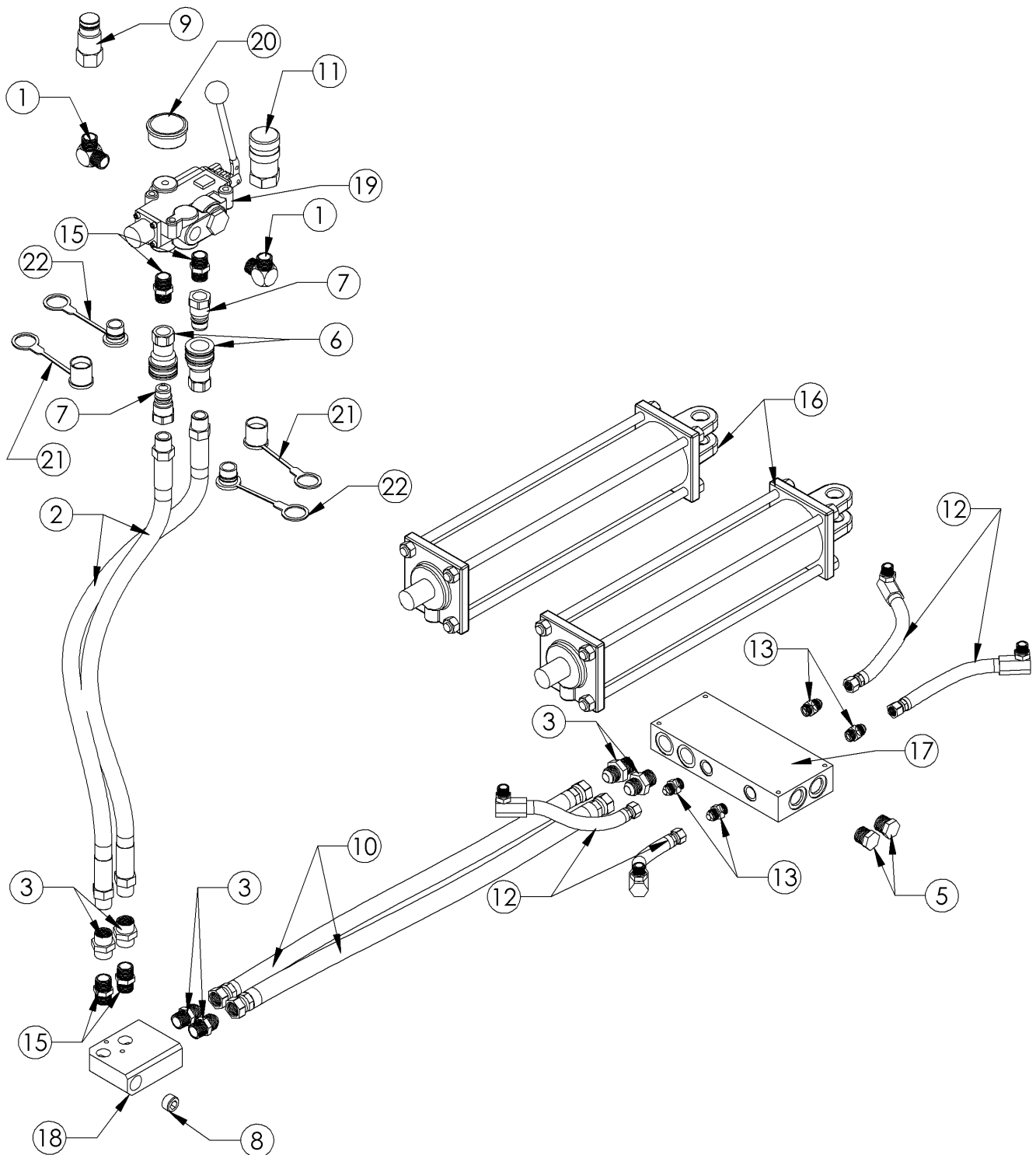


## MAIN ASSEMBLY - HB3038

| Item No. | Part No.     | Description                    | Qty. | Comments                  |
|----------|--------------|--------------------------------|------|---------------------------|
| 1        | 290794-001   | Frame Weldment                 | 1    |                           |
| 2        | 290795-001   | Control Stem                   | 1    |                           |
| 3        | 290837-001   | Knob                           | 1    |                           |
| 4        | 290833-001   | Jaw Guide-Plastic              | 2    |                           |
| 5        | 290831-001   | Jaw Guide-Shim                 | 2    |                           |
| 6        | 290832-001   | Jaw Guide-Top                  | 2    |                           |
| 7        | 290830-001   | Jaw Guide-Spacer               | 2    |                           |
| 8        | 290848-001   | Clevis, 1-1/4                  | 2    |                           |
| 9        | 290840-001   | Manifold Cover                 | 1    |                           |
| 10       | 142410-001   | Box, Literature                | 1    |                           |
| 11       | 290835-001   | Clevis Pin, 1"X4" Lg           | 4    |                           |
| 12       | 290834-001   | Pin Clip, 7/8                  | 8    |                           |
| 13       | Not Serviced | Jaw Block Sub-Assy             | 1    | See PAGE 20-7             |
| 14       | 296287-203   | Cage, HB3038 & HB 5058         | 1    |                           |
| 15       | 290836-001   | Shore Plate                    | 1    |                           |
| 16       | 293961-001   | Platform Assembly              | 1    | Includes 27, 37, 38, & 39 |
| 17       | 251817-001-1 | Pin, Coiled 1/2 X 2.25         | 1    |                           |
| 18       | 293773-001   | Grip Strip                     | 2    |                           |
| 19       | 296285-441   | Sling, 4-Leg                   | 1    |                           |
| 20       | 373-024      | Bolt, 1/4-20 X 2.5" Carriage   | 4    |                           |
| 21       | 403-001      | Nut, 1/4-20 Top-Lock           | 6    |                           |
| 22       | 373-010      | Bolt, Carriage 1/4-20 X 1      | 2    |                           |
| 23       | 485-003      | Washer, Flat 1/4               | 4    |                           |
| 24       | 401-001      | Nut, 1/4-20                    | 2    |                           |
| 25       | 350-010      | Bolt, HX HD 1/4-20 X 1         | 2    |                           |
| 26       | 354-024      | Screw, 3/8-16 X 2.5" HHC       | 2    |                           |
| 27       | 416-001      | Nut, 3/8-16 Top-Lock           | 7    |                           |
| 28       | 296270-051   | Bolt, HX HD, 3/8-16 X 2" HHC   | 3    |                           |
| 29       | 235743-001   | Bolt, HX HD, 3/8-16 X 3" Gr. 8 | 2    |                           |
| 30       | 485-007      | Washer, 3/8                    | 6    |                           |
| 31       | 358-020      | Bolt, HHC 1/2-13 X 2           | 12   |                           |
| 32       | 480-011      | Washer, Lock 1/2               | 12   |                           |
| 33       | 296273-345   | Operator's Manual              | 1    |                           |
| 34       | 296273-346   | Parts Manual-Hydroburst        | 1    | ETC P/N PM1251            |
| 35       | Not Serviced | Hydraulic Assy, HB3038         | 1    | See PAGE 20-5             |
| 36       | 293959-001   | Gauge Protector-Hor            | 1    |                           |
| 37       | 296260-908   | Platform                       | 1    |                           |
| 38       | 354-012      | Bolt, Hx Hd 3/8-16 X 1 1/4     | 4    |                           |
| 39       | 293963-001   | Platform Lobe                  | 1    |                           |

## HYDRAULIC ASSEMBLY - HB3038

FIGURE 20-2

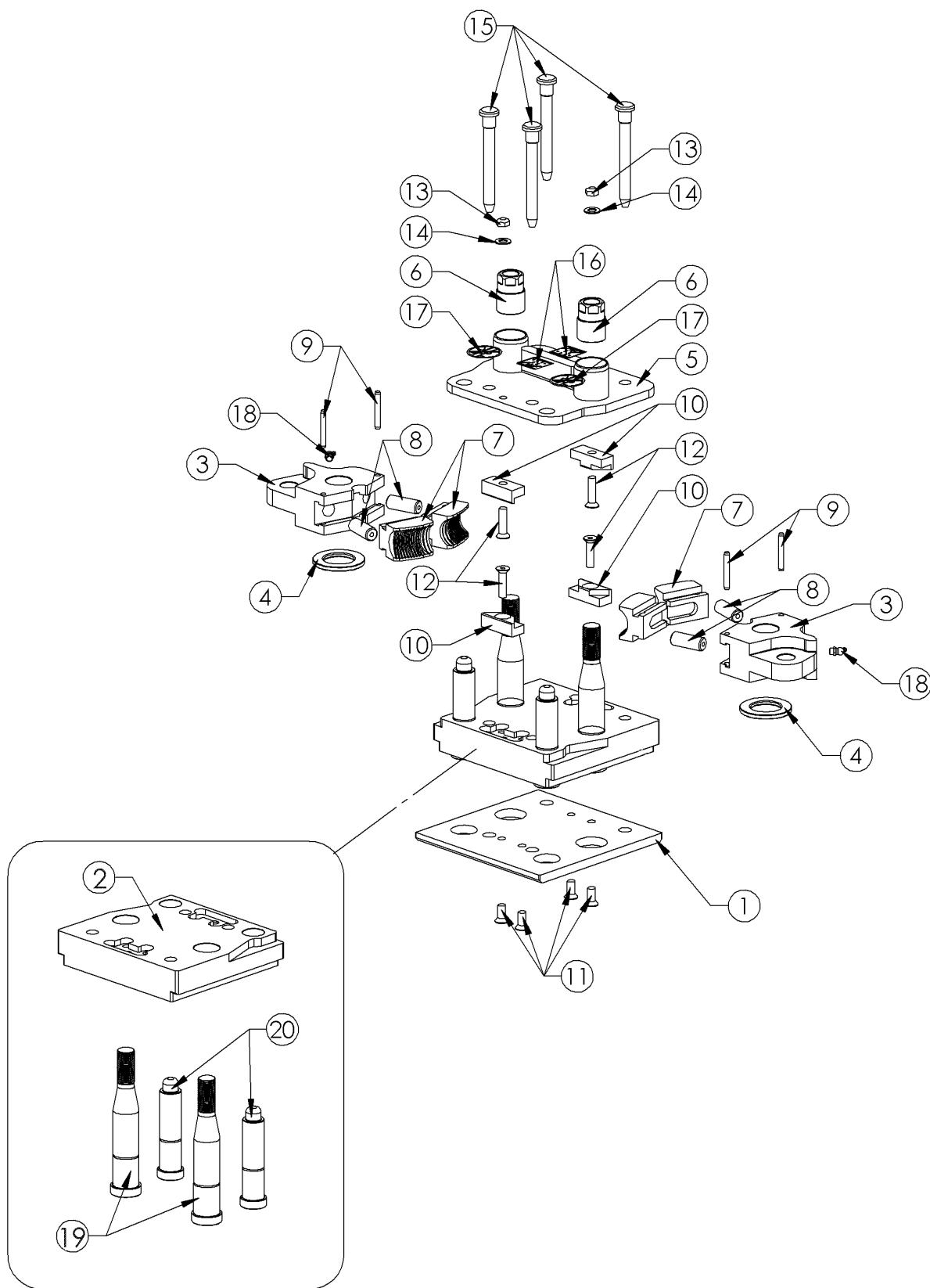


**HYDRAULIC ASSEMBLY - HB3038**

| Item No. | Part No.   | Description              | Qty. | Comments      |
|----------|------------|--------------------------|------|---------------|
| 0        | 290841-001 | Hose & Adapter Kit       | Ref  | Includes 1-15 |
| 1        | 123645-001 | Elbow, 12MP X 12MP 90°   | 2    |               |
| 2        | 290844-001 | Hose, Valve Supply       | 2    |               |
| 3        | 286710-001 | Union, Hex, 12FP X 12FP  | 2    |               |
| 4        | 290846-001 | Adapter, 12MJ X 12MB     | 2    |               |
| 5        | 290845-001 | Plug, 12MB               | 2    |               |
| 6        | 241136-001 | Socket-Quick Disconnect  | 2    |               |
| 7        | 241163-001 | Plug-Quick Disconnect    | 2    |               |
| 8        | 290847-001 | Plug, 12MP Hex Socket    | 1    |               |
| 9        | 248845-001 | Nipple, Male 3/4         | 1    |               |
| 10       | 290843-001 | Hose, Manifold           | 2    |               |
| 11       | 248844-001 | Coupling, Female 3/4     | 1    |               |
| 12       | 290842-001 | Hose, Cyl. Feed          | 4    |               |
| 13       | 53824-001  | Adapter, 8MJ X 8MB       | 4    |               |
| 14       | 53836-001  | Adapter, 12MJ X 12MP     | 2    |               |
| 15       | 707-007    | Nipple, Hex, 12MP X 12MP | 4    |               |
| 16       | 290849-001 | 4 X 8 Cylinder           | 2    |               |
| 17       | 293935-001 | Manifold, Rearward       | 1    |               |
| 18       | 293934-001 | Manifold, Forward        | 1    |               |
| 19       | 248889-001 | Valve, Prince 5100       | 1    |               |
| 20       | 229229-309 | Pressure Gauge, 3000 Psi | 1    |               |
| 21       | 293869-001 | Dust Cap                 | 2    |               |
| 22       | 293868-001 | Dust Plug                | 2    |               |

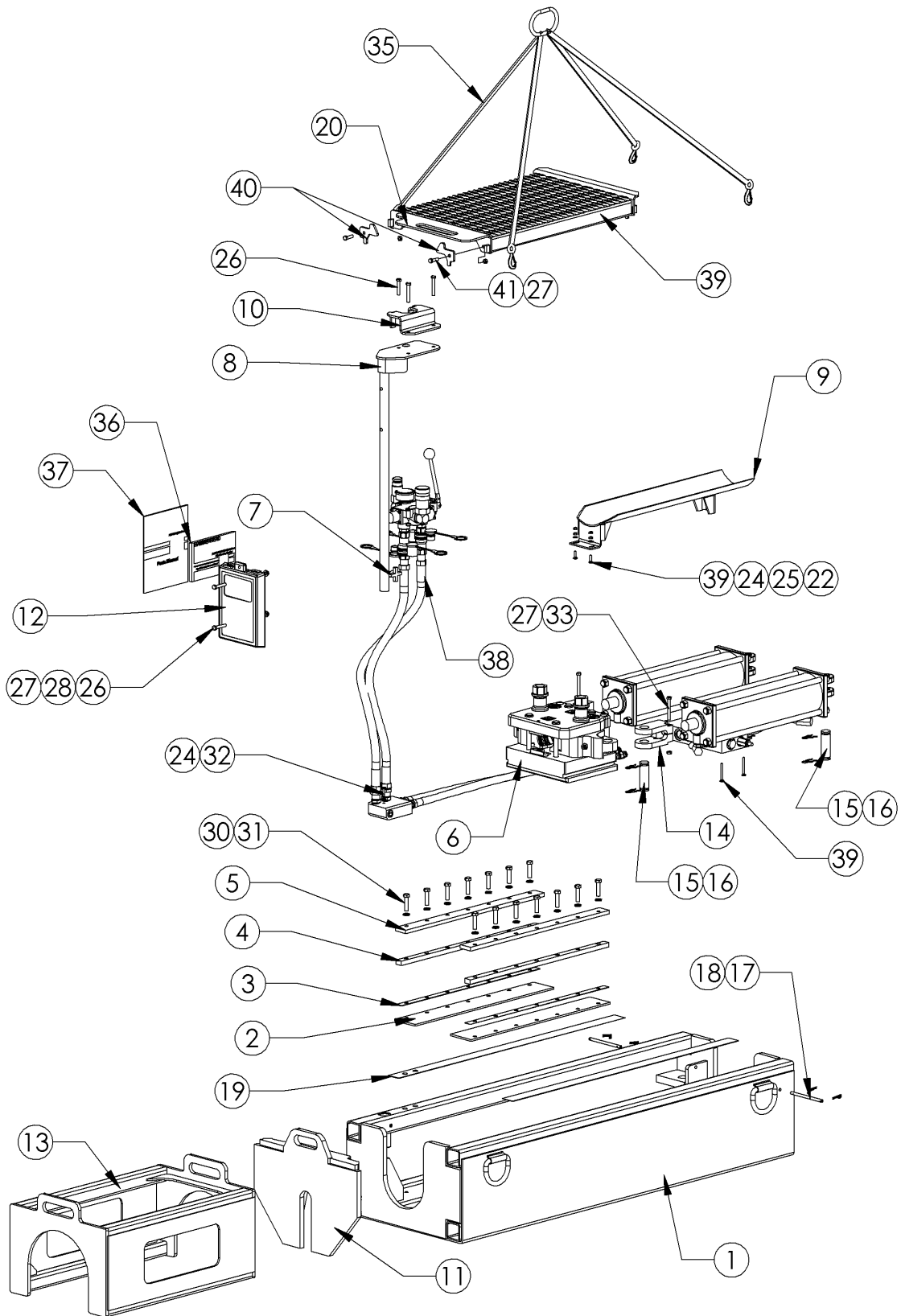
## JAW BLOCK SUB-ASSEMBLY - HB3038

### FIGURE 20-3



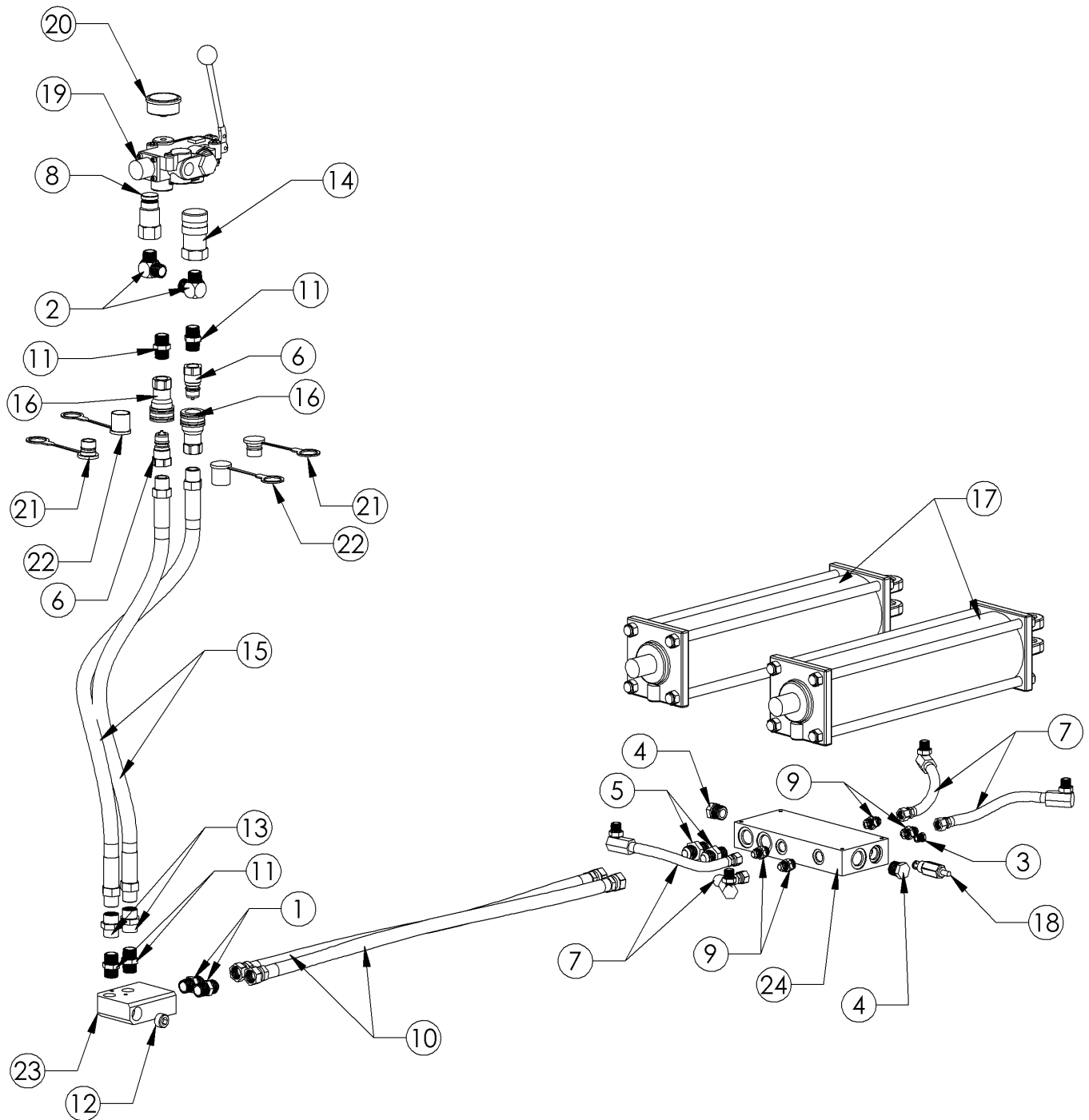
**JAW BLOCK SUB-ASSEMBLY - HB3038**

| Item No. | Part No.   | Description                 | Qty. | Comments                 |
|----------|------------|-----------------------------|------|--------------------------|
| 0        | 293927-001 | Lower Jaw Block Assy        | 1    | Includes 2, 19, & 20     |
| 1        | 290796-001 | Bearing Plate               | 1    |                          |
| 2        | 290819-001 | Base Plate                  | 1    | Service Kit - 293927-001 |
| 3        |            | Jaw Carrier- HB3038         | 2    | Service Kit - 296293-705 |
| 4        | 293899-001 | Jaw Bushing                 | 2    |                          |
| 5        | 296260-907 | Upper Jaw Plate             | 1    |                          |
| 6        | 296271-890 | Top Nut                     | 2    |                          |
| 7        |            | Jaw Insert, Premium         | 4    | Service Kit - 290825-001 |
| 8        | 290798-001 | Shear Pin                   | 4    |                          |
| 9        | 290799-001 | Coil Pin, 5/16 X 2.25       | 4    |                          |
| 10       | 290797-001 | Rod Guide                   | 4    |                          |
| 11       | 241176-001 | Screw, 7/16-14 X 1" FHC     | 4    |                          |
| 12       | 290800-001 | Screw, 7/16-14 X 1.75" FHC  | 4    |                          |
| 13       | 290804-001 | Nut, 7/16-14 Top-Lock       | 2    |                          |
| 14       | 485-009    | Washer, 7/16 Flat           | 2    |                          |
| 15       | 290803-001 | Pin, Direction              | 4    |                          |
| 16       | 7001A753   | Decal, Push Rod             | 2    |                          |
| 17       | 296253-041 | Decal, No Joint Grip        | 2    |                          |
| 18       | 588-001    | Fitting Grease 1/8 NPT, 45° | 2    |                          |
| 19       |            | Pin, Jaw Pivot- HB3038      | 2    | Service Kit - 296293-704 |
| 20       | 290820-001 | Pin, Support                | 2    | Service Kit - 290819-001 |

**MAIN ASSEMBLY - HB5058**  
**FIGURE 20-4**

## MAIN ASSEMBLY - HB5058

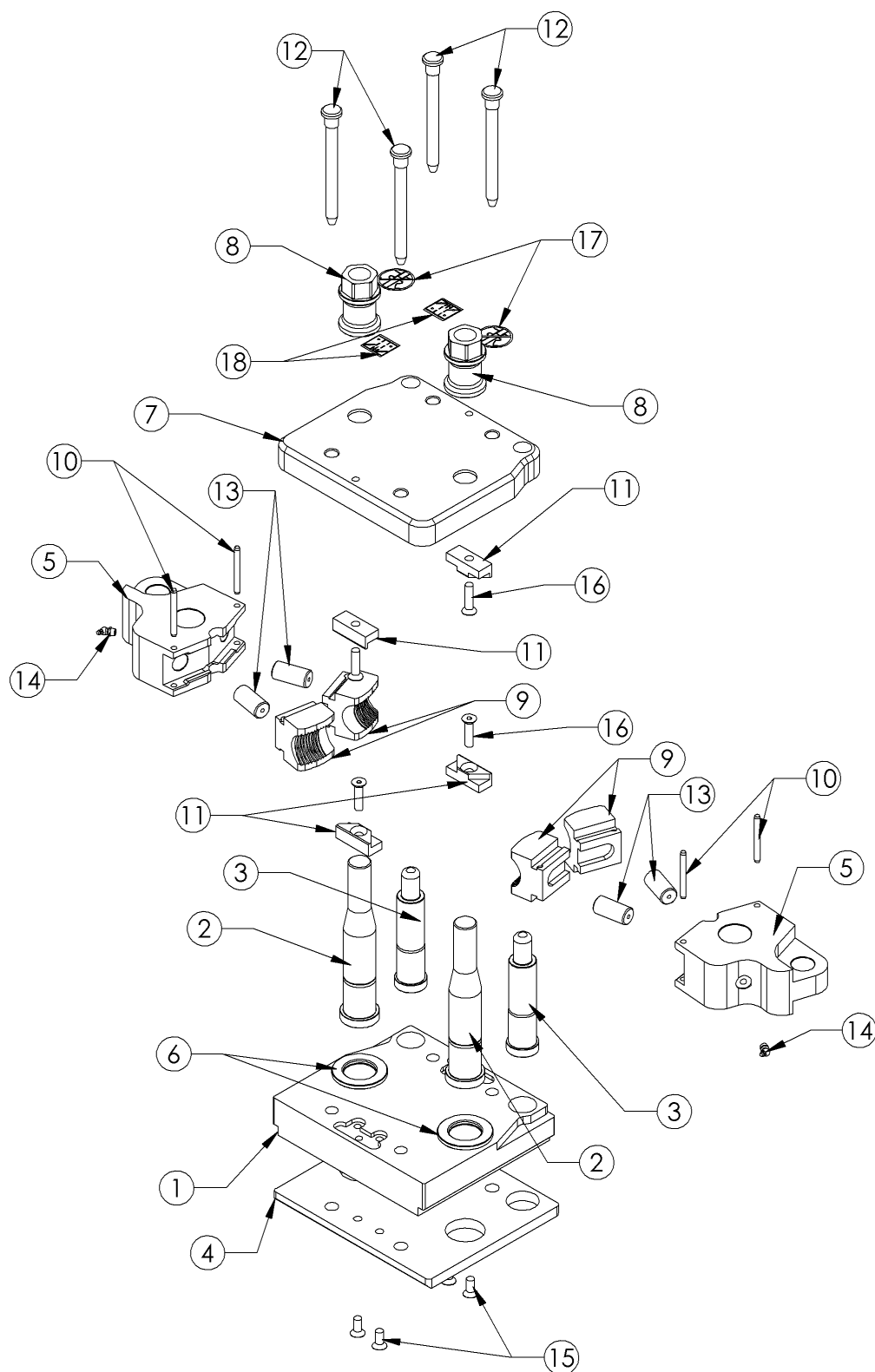
| Item No. | Part No.     | Description                  | Qty. | Comments                  |
|----------|--------------|------------------------------|------|---------------------------|
| 1        | 296253-048   | Frame Weldment               | 1    |                           |
| 2        | 293786-001   | Jaw Guide-Plastic            | 2    |                           |
| 3        | 293785-001   | Jaw Guide-Shim               | 2    |                           |
| 4        | 293783-001   | Jaw Guide-Spacer             | 2    |                           |
| 5        | 293784-001   | Jaw Guide-Top                | 2    |                           |
| 6        | Not Serviced | Jaw Block Sub-Assy           | 1    | See PAGE 20-13            |
| 7        | 290837-001   | Knob                         | 1    |                           |
| 8        | 290795-001   | Control Stem                 | 1    |                           |
| 9        | 293790-001   | Manifold Cover               | 1    |                           |
| 10       | 293959-001   | Gauge Protector-Hor          | 1    |                           |
| 11       | 290836-001   | Shore Plate                  | 1    |                           |
| 12       | 142410-001   | Box, Literature              | 1    |                           |
| 13       | 296287-203   | Cage-HB3038 & HB5058         | 1    |                           |
| 14       | 293879-001   | Clevis, 1-1/2                | 2    |                           |
| 15       | 296253-225   | Clevis Pin, 1-1/4            | 4    |                           |
| 16       | 293881-001   | Pin Clip                     | 8    |                           |
| 17       | 293884-001   | Pin, Retaining               | 2    |                           |
| 18       | 205154-007   | Safety Clip                  | 4    |                           |
| 19       | 293773-001   | Grip Strip                   | 2    |                           |
| 20       | 293961-001   | Platform Assembly            | 1    | Includes 27, 39, 40, & 41 |
| 21       | 373-024      | Bolt, 1/4-20 X 2.5" Carriage | 4    |                           |
| 22       | 403-001      | Nut, 1/4-20 Top-Lock         | 6    |                           |
| 23       | 373-010      | Bolt, Carriage 1/4-20 X 1    | 2    |                           |
| 24       | 485-003      | Washer, Flat 1/4             | 4    |                           |
| 25       | 401-001      | Nut, 1/4-20                  | 2    |                           |
| 26       | 296270-501   | Screw, 3/8-16 X 2" HHC       | 3    |                           |
| 27       | 416-001      | Nut, 3/8-16 Top-Lock         | 7    |                           |
| 28       | 485-007      | Washer, 3/8                  | 6    |                           |
| 29       | 354-024      | Screw, 3/8-16 X 2.5" HHC     | 2    |                           |
| 30       | 480-011      | Washer, Lock 1/2             | 14   |                           |
| 31       | 235718-001   | Bolt HHC1/2-13 X 2" Gr 8     | 14   |                           |
| 32       | 350-010      | Bolt, HX HD 1/4-20 X 1       | 2    |                           |
| 33       | 235743-001   | Screw, 3/8-16 X 3" Gr. 8     | 2    |                           |
| 34       | 251817-001-1 | Pin, Coiled 1/2 X 2.25       | 1    |                           |
| 35       | 296285-441   | Sling, 4-Leg                 | 1    |                           |
| 36       | 296273-345   | Operator's Manual            | 1    |                           |
| 37       | 296273-346   | Parts Manual-Hydroburst      | 1    |                           |
| 38       | Not Serviced | Hydraulic Assy, HB5058       | 1    | See PAGE 20-11            |
| 39       | 296260-908   | Platform                     | 1    |                           |
| 40       | 293963-001   | Platform Lobe                | 4    |                           |
| 41       | 354-012      | Bolt, HX HD 3/8-16 X 1 1/4   | 4    |                           |

**HYDRAULIC ASSEMBLY - HB5058**  
**FIGURE 20-5**

**HYDRAULIC ASSEMBLY - HB5058**

| Item No. | Part No.   | Description                   | Qty. | Comments      |
|----------|------------|-------------------------------|------|---------------|
| 0        | 293789-001 | Hose & Adapter Kit            | 1    | Includes 1-16 |
| 1        | 53836-001  | Adapter, 12MJ X 12MP          | 2    |               |
| 2        | 123645-001 | Elbow, 12MP X 12MP, 90°       | 2    |               |
| 3        | 293804-001 | Plug, -06MB                   | 1    |               |
| 4        | 290845-001 | Plug, 12MB                    | 2    |               |
| 5        | 290846-001 | Adapter, 12MJ X 12MB          | 2    |               |
| 6        | 241163-001 | Plug-Quick Disconnect         | 2    |               |
| 7        | 293787-001 | Hose, Cyl. Feed               | 4    |               |
| 8        | 248845-001 | Nipple, Male 3/4              | 1    |               |
| 9        | 53824-001  | Adapter, 8MJ X 8MB            | 4    |               |
| 10       | 293788-001 | Hose, Manifold                | 2    |               |
| 11       | 707-007    | Nipple, Hex, 12MP X 12MP      | 2    |               |
| 12       | 290847-001 | Plug, 12MP Hex Socket         | 1    |               |
| 13       | 286710-001 | Union, Hex, 12FP X 12FP       | 2    |               |
| 14       | 248844-001 | Coupling, Female 3/4          | 1    |               |
| 15       | 290844-001 | Hose, Valve Supply            | 2    |               |
| 16       | 241136-001 | Socket-Quick Disconnect       | 2    |               |
| 17       | 293882-001 | Cylinder, 5 X 18              | 2    |               |
| 18       | 293801-001 | Valve, Relief                 | 1    |               |
| 19       | 148889-001 | Valve, Prince 5100 - Machined | 1    |               |
| 20       | 229229-309 | Pressure Gauge, 3000 PSI      | 1    |               |
| 21       | 293868-001 | Dust Plug                     | 2    |               |
| 22       | 293869-001 | Dust Cap                      | 2    |               |
| 23       | 293934-001 | Manifold, Forward             | 1    |               |
| 24       | 293802-001 | Manifold W/ Relief Cavity     | 1    |               |

**JAW BLOCK SUB-ASSEMBLY - HB5058**  
**FIGURE 20-6**



**JAW BLOCK SUB-ASSEMBLY - HB5058**

| Item No. | Part No.   | Description                 | Qty. | Comments                                              |
|----------|------------|-----------------------------|------|-------------------------------------------------------|
| 0        | 293900-001 | Lower Jaw Block Assy.       | 1    | Includes 1-3                                          |
| 1        | 293900-001 | Lower Jaw Plate             | 1    | Service Kit - 293900-001                              |
| 2        | 293901-001 | Pin, Support                | 2    | Service Kit - 293932-001                              |
| 3        | 293932-001 | Pin, Jaw Pivot              | 2    | Service Kit - 293901-001                              |
| 4        | 293894-001 | Bearing Plate               | 1    |                                                       |
| 5        | 293897-001 | Jaw Carrier                 | 2    |                                                       |
| 6        | 293899-001 | Jaw Bushing                 | 2    |                                                       |
| 7        | 293895-001 | Upper Jaw Plate             | 1    |                                                       |
| 8        | 296271-891 | Top Nut                     | 2    |                                                       |
| 9        |            | Jaw Insert, Mod. T-Slot     | 4    | Service Kit - 296260-861<br>Units S/N10043 and Higher |
|          |            | Jaw Insert, RR              | 4    | Service Kit - 296266-040<br>Units Prior To S/N 10043  |
| 10       | 296260-860 | Coil Pin, 5/16 X 3.0        | 4    |                                                       |
| 11       | 290797-001 | Rod Guide                   | 4    |                                                       |
| 12       | 293842-001 | Pin, Direction              | 4    |                                                       |
| 13       | 293896-001 | Shear Pin                   | 4    |                                                       |
| 14       | 588-001    | Fitting, Grease 1/8 Npt 45° | 2    |                                                       |
| 15       | 241176-001 | Screw, 7/16-14 X 1" FHC     | 4    |                                                       |
| 16       | 290800-001 | Screw, 7/16-14 X 1.75" FHC  | 4    |                                                       |
| 17       | 296253-041 | Decal, No Joint Grip        | 2    |                                                       |
| 18       | 7001A-753  | Decal, Push Rod             | 2    |                                                       |

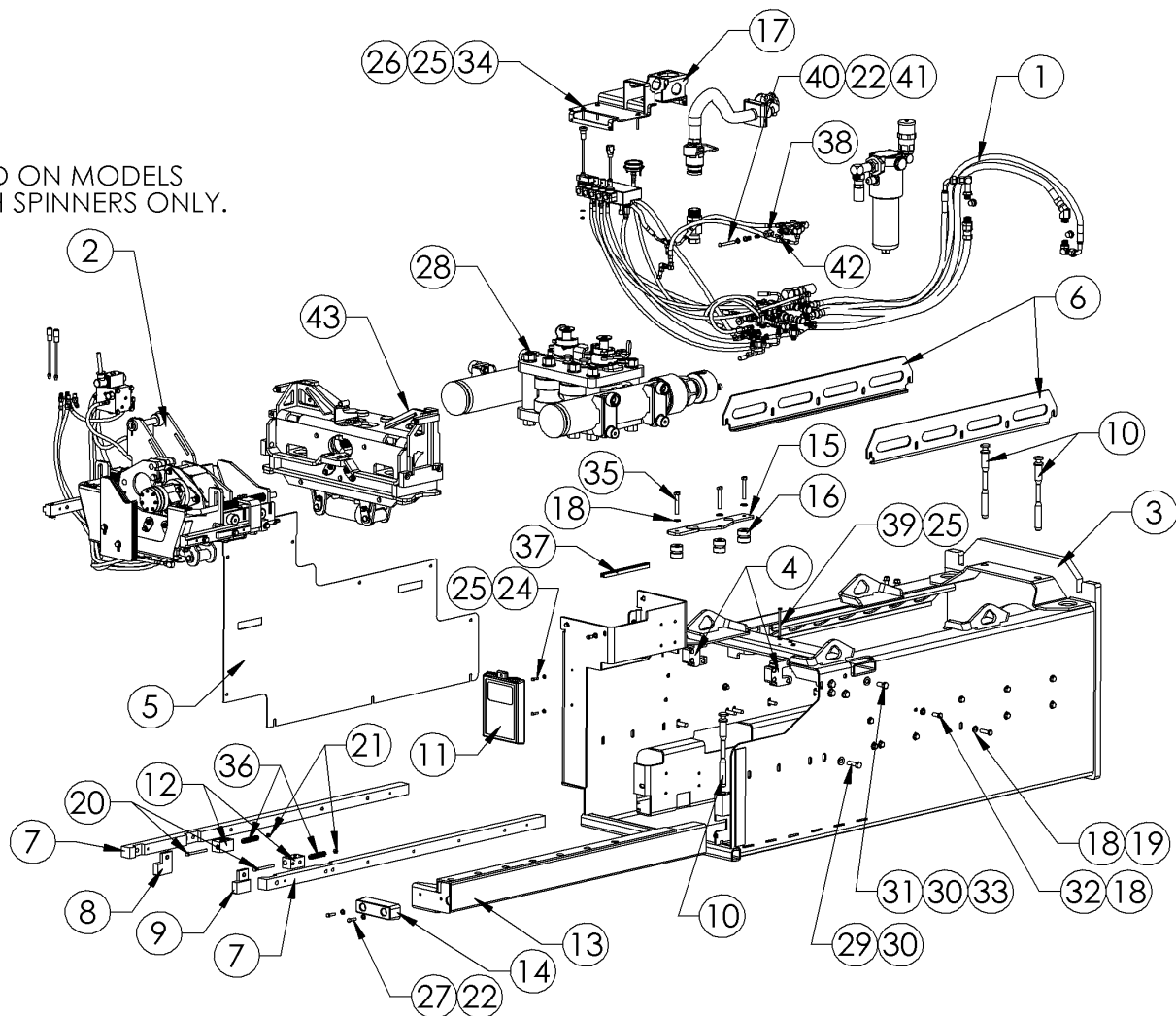
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**HB80 HYDROBURST**

**SECTION 30**

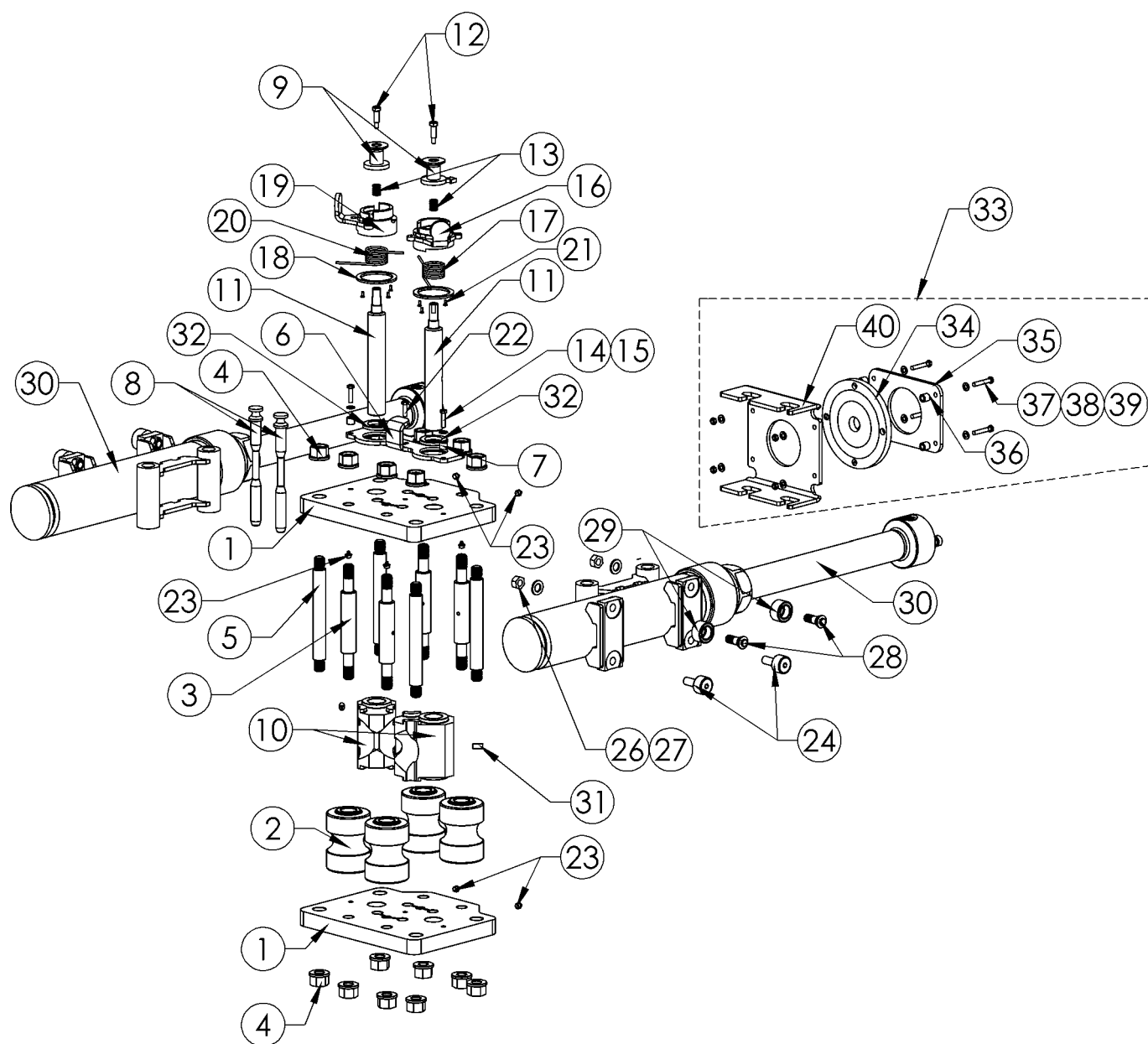
**MAIN ASSEMBLY - HB80  
WITH AND WITHOUT SPINNER  
FIGURE 30-1**

USED ON MODELS  
WITH SPINNERS ONLY.



**MAIN ASSEMBLY - HB80  
WITH AND WITHOUT SPINNER**

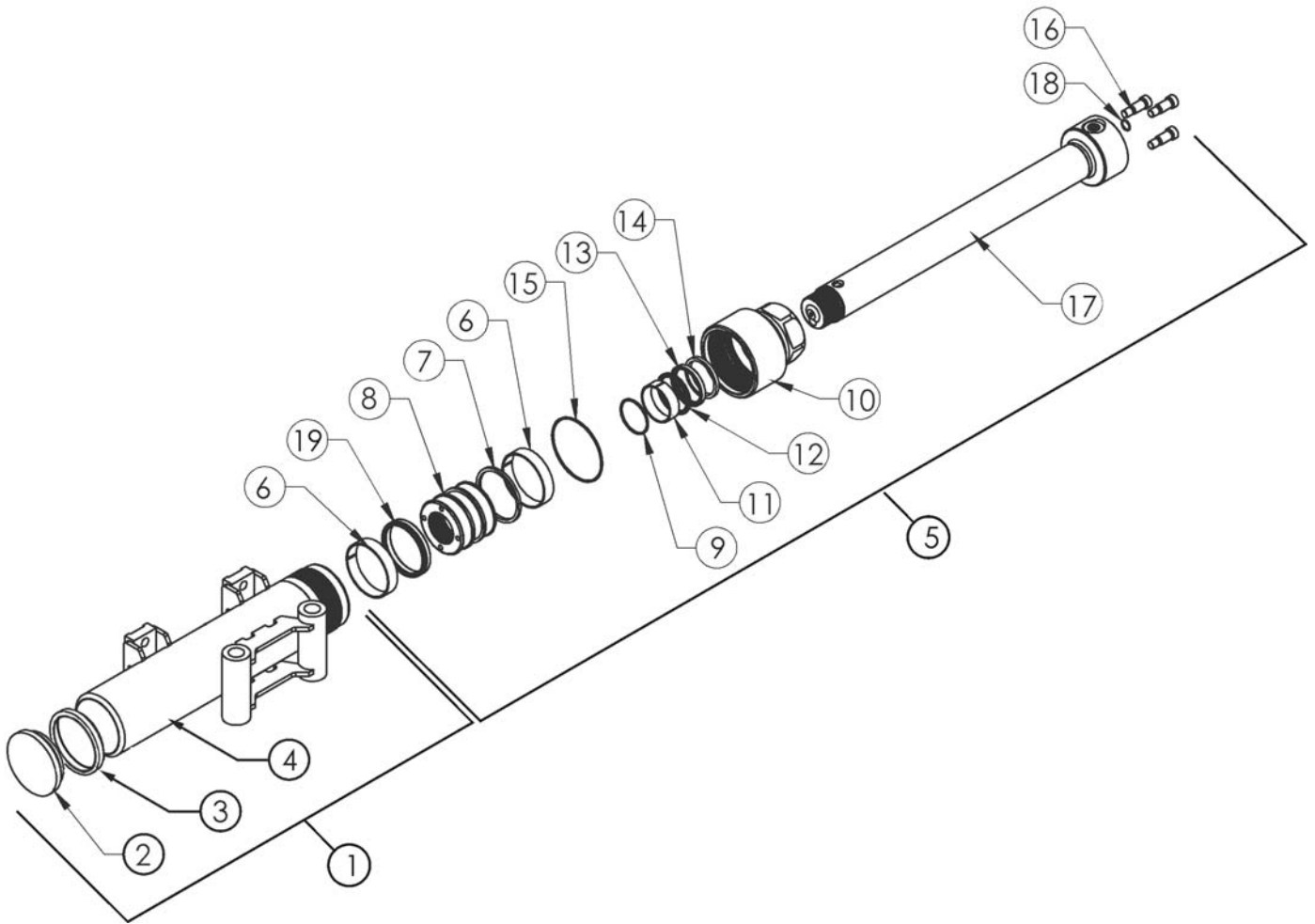
| ITEM NO. | PART NO.     | DESCRIPTION                     | QTY. | COMMENTS                                     |
|----------|--------------|---------------------------------|------|----------------------------------------------|
| 1        | Not Serviced | HYDRAULIC ASSEMBLY HB80         | 3    | SEE PAGE 30-10                               |
| 2        | 296285-316   | SPINNER SUB-ASSEMBLY            | 1    | SEE PAGE 30-16 (USED ONLY ON SPINNER MODELS) |
| 3        | 296285-329   | HULL                            | 1    |                                              |
| 4        | 296285-327   | BUNGEE VISE STOP                | 2    |                                              |
| 5        | 296285-386   | HYDRAULIC COVER                 | 1    |                                              |
| 6        | 296285-318   | GUIDE TRACK UPPER               | 2    |                                              |
| 7        | 296293-540   | GUIDE TRACK, LOWER - FRONT      | 2    |                                              |
| 8        | 296285-328   | STOP, BUNGEE VISE LEFT          | 1    |                                              |
| 9        | 296285-389   | STOP, BUNGEE VISE RIGHT         | 1    |                                              |
| 10       | 296285-289   | DIRECTION PIN                   | 3    |                                              |
| 11       | 142410-001   | BOX, LITERATURE                 | 1    |                                              |
| 12       | 296285-319   | GAS SPRING MOUNT                | 2    |                                              |
| 13       | 296285-326   | FOOT WELDMENT                   | 1    |                                              |
| 14       | 296271-981   | RUBBER BUMPER                   | 1    |                                              |
| 15       | 296285-387   | BULKHEAD PLATE                  | 1    |                                              |
| 16       | 296285-325   | ISOLATOR                        | 3    |                                              |
| 17       | 296285-330   | CONTROL PANEL                   | 1    |                                              |
| 18       | 296271-785   | WASHER, 1/2" - HARD             | 41   |                                              |
| 19       | 296285-399   | BOLT, HX HD 1/2-13 x 1.75" GR8  | 8    |                                              |
| 20       | 296285-439   | BOLT, HX HD 3/8-16 x 4          | 2    |                                              |
| 21       | 416-001      | NUT, 3/8-16 TOP-LOCK            | 4    |                                              |
| 22       | 296271-869   | WASHER, 3/8" - HARD             | 19   |                                              |
| 23       | 16114-006    | BOLT, HX HD 3/8-16 x .75" GR. 8 | 13   |                                              |
| 24       | 350-010      | BOLT, HX HD 1/4-20 x 1          | 2    |                                              |
| 25       | 296271-826   | WASHER, 1/4" - HARD             | 16   |                                              |
| 26       | 403-001      | NUT, 1/4-20 TOP-LOCK            | 8    |                                              |
| 27       | 235736-001   | BOLT HX HD 3/8-16 x 1.25" GR 8  | 2    |                                              |
| 28       | 296285-295   | GATE ASSEMBLY                   | 1    | SEE PAGE 30-4                                |
| 29       | 145645-001   | BOLT, HX HD 5/8-11 x 2" GR 8    | 6    |                                              |
| 30       | 615342-001   | WASHER, 5/8" - HARD             | 10   |                                              |
| 31       | 235730-001   | BOLT, HX HD 5/8-11 x 1.25" GR 8 | 4    |                                              |
| 32       | 296285-400   | BOLT, HX HD 1/2-13 x 1.25" GR8  | 14   |                                              |
| 33       | 423-001      | NUT, 1/2-13 TOP-LOCK            | 15   |                                              |
| 34       | 296285-401   | BOLT, HX HD 1/4-20 x 2.5" GR8   | 3    |                                              |
| 35       | 240336-001   | BOLT, HX HD 1/2-13 x 3.25" GR8  | 3    |                                              |
| 36       | 296285-440   | SPRING 4                        | 2    |                                              |
| 37       | 296293-614   | PUSH ON EDGE TRIM 10            | 2    |                                              |
| 38       | 296285-385   | SPOOL CAP                       | 1    |                                              |
| 39       | 296258-562   | BOLT, 1/4-20 x 4.5 GR8          | 3    |                                              |
| 40       | 296293-616   | BOLT, 3/8-16 x 3 FULL THREAD    | 1    |                                              |
| 41       | 413-001      | NUT, 3/8-16 JAM                 | 3    |                                              |
| 42       | 351-010      | BOLT, HX HD 5/16 x 1            | 1    |                                              |
| 43       | 296285-313   | WISE ASSEMBLY (SEE PG 30-8)     | 1    |                                              |

**GATE ASSEMBLY  
FIGURE 30-2**

## GATE ASSEMBLY

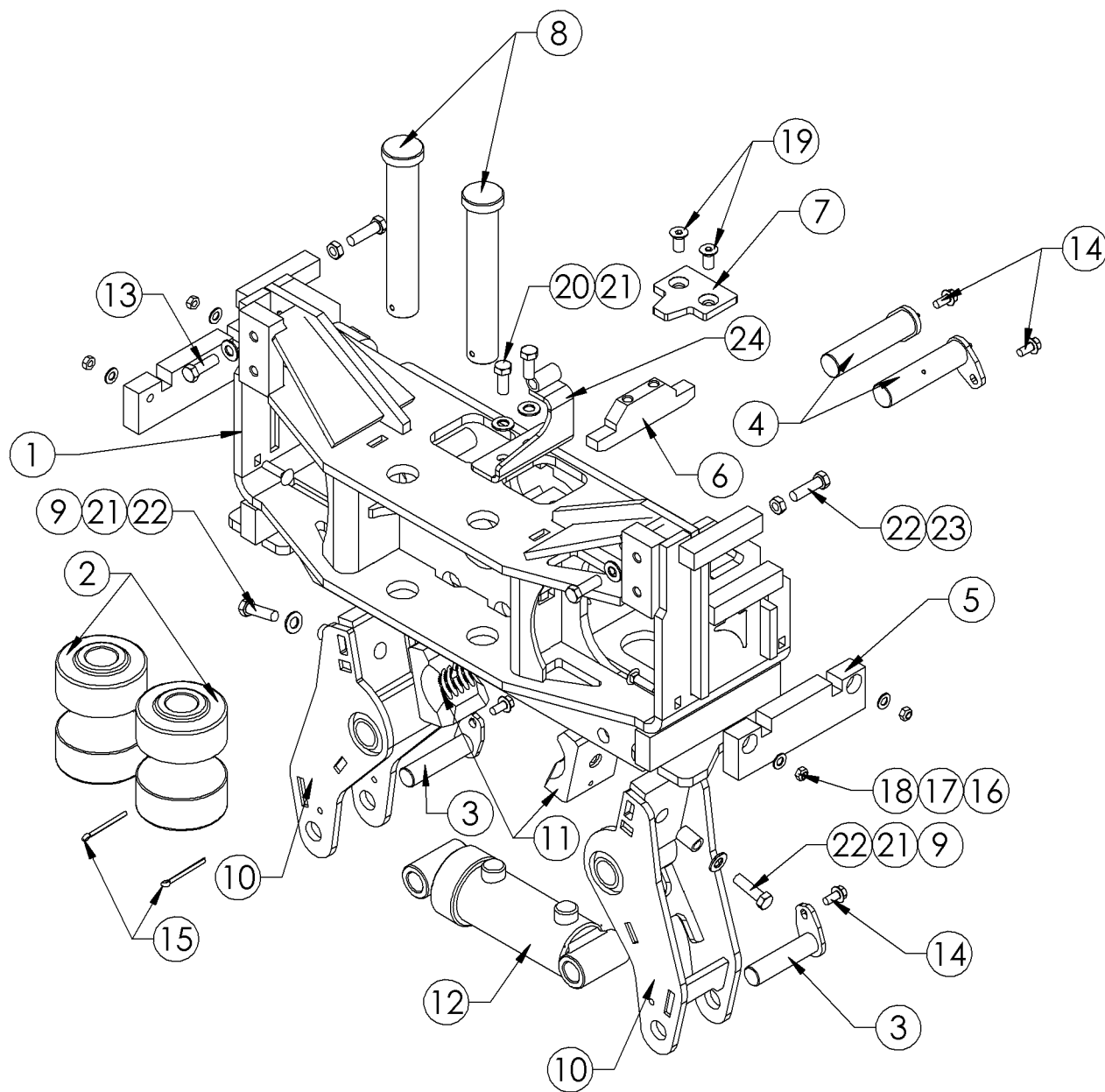
| ITEM NO. | PART NO.   | DESCRIPTION                    | QTY. | COMMENTS       |
|----------|------------|--------------------------------|------|----------------|
| 1        | 296285-273 | RATCHET PLATE                  | 2    |                |
| 2        | 296285-274 | ROLLER                         | 4    |                |
| 3        | 296285-275 | SHOULDER STUD, RATCHET BLOCK   | 4    |                |
| 4        | 296285-276 | NUT, 1.0-14 FLANGED GRADE 8    | 16   |                |
| 5        | 296285-277 | PIN, CYLINDER MOUNT            | 4    |                |
| 6        | 296285-292 | GREASE SEAL SUB ASSEMBLY       | 1    | USES ITEM 32   |
| 7        | 296285-280 | STOP SPOOL, SPRING             | 2    |                |
| 8        | 296285-289 | DIRECTION PIN                  | 2    |                |
| 9        | 296285-284 | DETENT POINTER                 | 2    |                |
| 10       | 296285-281 | PAWL                           | 2    |                |
| 11       | 296285-282 | PAWL SHAFT                     | 2    |                |
| 12       | 296285-283 | SHOULDER BOLT, .50 x 1.25      | 2    |                |
| 13       | 296285-293 | COMPRESSION SPRING, DETENT     | 2    |                |
| 14       | 16114-014  | BOLT, HHC 3/8-16 x 1.5 GR 8    | 2    |                |
| 15       | 296271-869 | WASHER, 3/8" - HARD            | 3    |                |
| 16       | 296285-285 | SPRING CAN RIGHT               | 1    |                |
| 17       | 296285-286 | PAWL SPRING, LEFT              | 1    |                |
| 18       | 296285-287 | RIM, SPRING CAN                | 2    |                |
| 19       | 296285-290 | SPRING CAN                     | 1    |                |
| 20       | 296285-291 | PAWL SPRING-RIGHT              | 1    |                |
| 21       | 296285-288 | SCREW, 10-24 x .5" FHC         | 6    |                |
| 22       | 235736-001 | BOLT HX HD 3/8-16 x 1.25" GR 8 | 1    |                |
| 23       | 586-001    | ZERK, GREASE 1/4 NPT           | 8    |                |
| 24       | 586-270    | TRACK ROLLER                   | 4    |                |
| 25       | 586-403    | NUT, 3/4-16 TOP-LOCK, FINE     | 4    |                |
| 26       | 397-001    | NUT, 3/4-10 TOP-LOCK           | 4    |                |
| 27       | 98647-001  | WASHER, 3/4" - HARD            | 8    |                |
| 28       | 98647-272  | BEARING STUD                   | 4    |                |
| 29       | 98647-271  | BEARING LATERAL                | 4    |                |
| 30       | 296296-983 | CYLINDER MAIN, HB80            | 2    | SEE PAGE 30-6  |
| 31       | 98647-404  | SET SCREW, 1/2-13 x 1          | 2    |                |
| 32       | 296287-163 | GREASE SEAL                    | 2    | USED W/ ITEM 6 |
| 33       | 296296-811 | ROD WIPER ASSEMBLY             | 1    |                |
| 34       | 235921-001 | WIPER, 1.66 ROD                | 1    |                |
| 35       | 296296-812 | ROD WIPER SUPPORT              | 1    |                |
| 36       | 296296-814 | SPACER, ROD WIPER              | 4    |                |
| 37       | 250504-001 | SCREW, 3/8-16 x 2.25" HHC GR8  | 4    |                |
| 38       | 296271-869 | WASHER, 3/8" - HARD            | 8    |                |
| 39       | 416-0001   | NUT, 3/8-16 TOP LOCK           | 4    |                |
| 40       | 296296-813 | ROD WIPER SUPPORT - MAIN       | 1    |                |

**CYLINDER MAIN, HB80**  
**FIGURE 30-3**



## CYLINDER MAIN, HB80

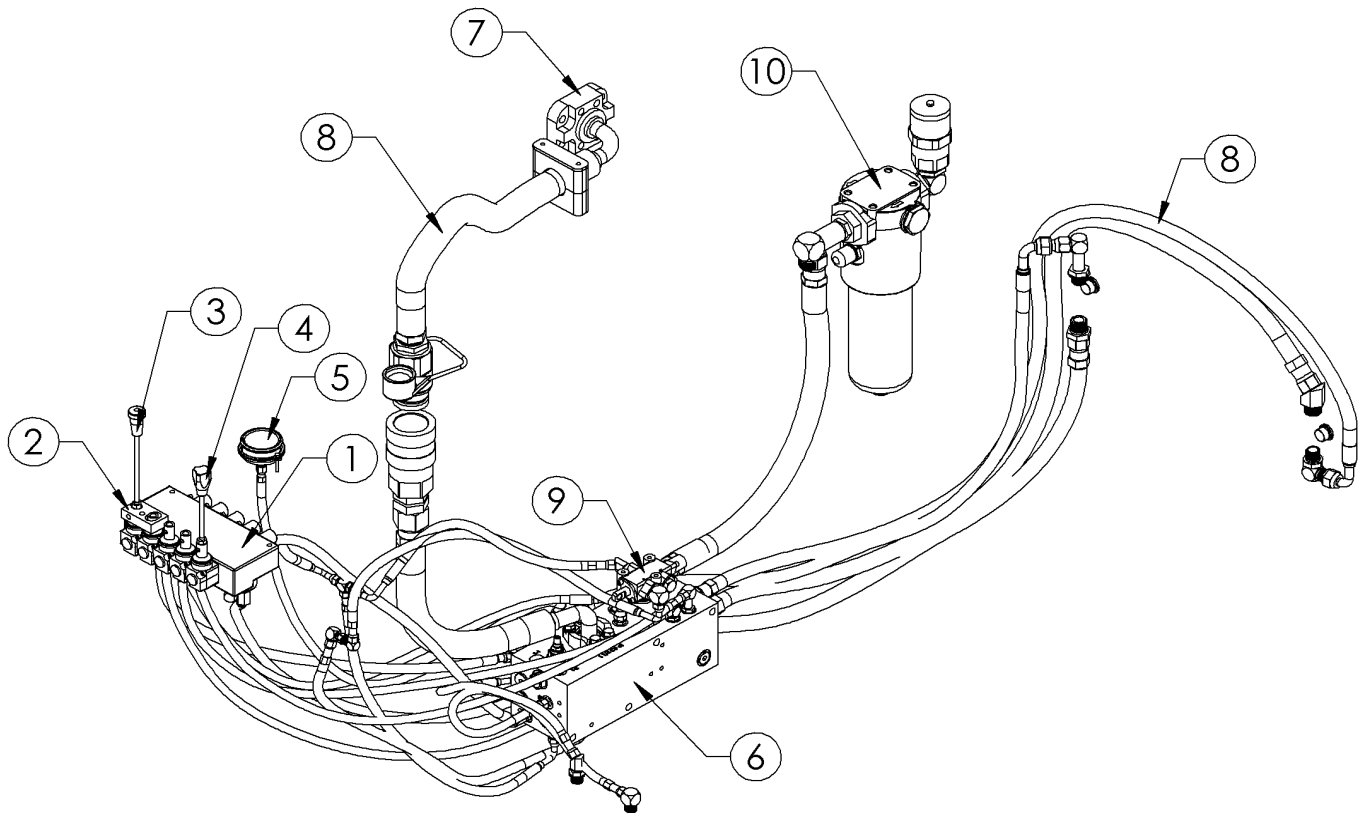
| ITEM NO. | VEEMEER NO. | DESCRIPTION                               | QTY. | COMMENTS       |
|----------|-------------|-------------------------------------------|------|----------------|
| 1        | 296296-987  | CYLINDER BARREL ASSY                      | 1    | INC ITEM # 2-4 |
| 2        | 296296-985  | CYLINDER BARREL END CAP                   | 1    |                |
| 3        | 296296-986  | COVER SEAL                                | 1    |                |
| 4        | 296296-984  | CYLINDER BARREL                           | 1    |                |
| 5        | 296285-257  | ROD SUB-ASSEMBLY                          | 1    | INC ITEM #6-19 |
| 6        | 296285-266  | WEAR RING, 475                            | 2    |                |
| 7        | 296285-269  | MODULAR BACK-UP, 475                      | 1    |                |
| 8        | 296285-294  | PISTON THRUST CYLINDER                    | 1    |                |
| 9        | 296285-265  | O-RING 2-232, PISTON                      | 1    |                |
| 10       | 296285-258  | CAP, SEAL CARRIER                         | 1    |                |
| 11       | 296285-259  | WEAR RING, 300                            | 1    |                |
| 12       | 296285-260  | SEAL 2PC 300                              | 1    |                |
| 13       | 296285-261  | SEAL 300                                  | 1    |                |
| 14       | 296285-262  | WIPER 300                                 | 1    |                |
| 15       | 296285-263  | O-RING 2-252 CYLINDER                     | 1    |                |
| 16       | 296287-130  | SCREW, $\varnothing 3/4$ x 1.25" SHOULDER | 3    |                |
| 17       | 296285-268  | ROD, THRUST CYLINDER                      | 1    |                |
| 18       | 296287-209  | O-RING, -10 SAE TEFLON                    | 1    |                |
| 19       | 296285-267  | SEAL PIP, 457                             | 1    |                |

**WISE ASSEMBLY**  
**FIGURE 30-4**

### VISE ASSEMBLY

| ITEM NO. | PART NO.   | DESCRIPTION                    | QTY. | COMMENTS |
|----------|------------|--------------------------------|------|----------|
| 1        | 296285-296 | WISE FRAME                     | 1    |          |
| 2        | 296285-274 | ROLLER                         | 2    |          |
| 3        | 296279-027 | PIN - 1.00                     | 2    |          |
| 4        | 296276-298 | PIN - 1.25                     | 2    |          |
| 5        | 296285-321 | WISE SLIDE                     | 2    |          |
| 6        | 296285-323 | GUIDE, ROD                     | 1    |          |
| 7        | 296285-324 | ROD, SUPPORT                   | 1    |          |
| 8        | 296285-380 | PIN, BUNGEE ROLLER PLATED      | 2    |          |
| 9        | 296279-026 | JAW ARM, BUSHING               | 2    |          |
| 10       | 296279-082 | JAW ARM                        | 2    |          |
| 11       | 296296-821 | WISE JAW                       | 2    |          |
| 12       | 296276-328 | CYLINDER, 2 1/2 x 3 1/2        | 1    |          |
| 13       | 75381-014  | BOLT, HX HD 1/2-13 x 1.5" GR 8 | 2    |          |
| 14       | 4475-006   | BOLT, 3/8-16 X .75" FLANGE     | 4    |          |
| 15       | 296285-402 | PIN, COTTER 3/16 x 2-1/2       | 2    |          |
| 16       | 375-014    | BOLT, CARRIAGE 3/8"-16 x 1.5   | 4    |          |
| 17       | 296271-869 | WASHER, 3/8" - HARD            | 4    |          |
| 18       | 416-001    | NUT, 3/8-16 TOP-LOCK           | 4    |          |
| 19       | 231974-001 | SCREW 1/2-13 x 1" FHC          | 2    |          |
| 20       | 296285-400 | BOLT, HX HD 1/2-13 x 1.25" GR8 | 2    |          |
| 21       | 296271-785 | WASHER, 1/2" - HARD            | 6    |          |
| 22       | 296285-399 | BOLT, HX HD 1/2-13 x 1.75" GR8 | 4    |          |
| 23       | 422-001    | NUT, HEX JAM                   | 2    |          |
| 24       | 296293-623 | VALVE POSITION STOP            | 1    |          |

# HYDRAULIC ASSEMBLY FIGURE 30-5



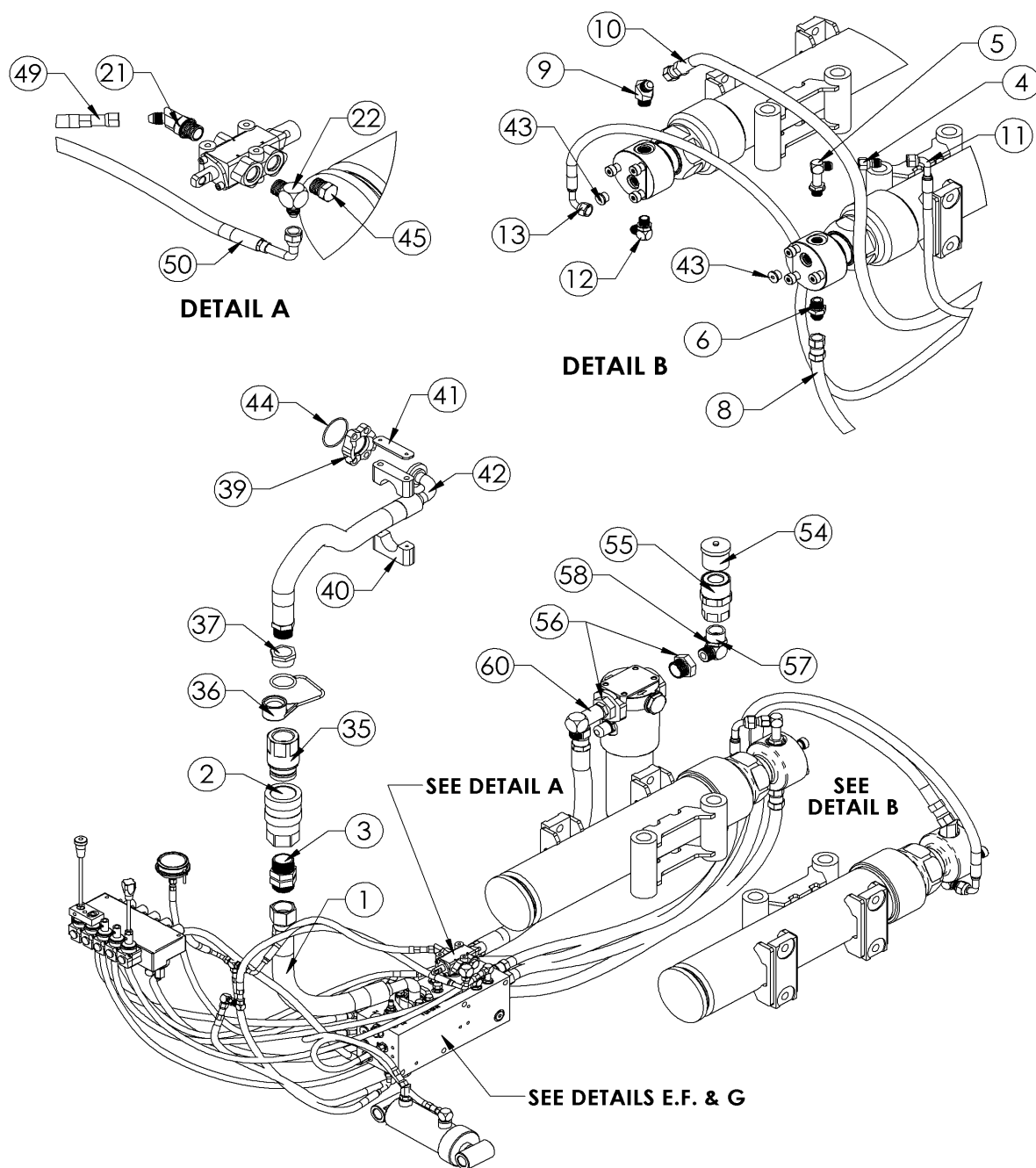
## HYDRAULIC ASSEMBLY

| NO. | PART NO.     | DESCRIPTION                  | QTY. | COMMENTS       |
|-----|--------------|------------------------------|------|----------------|
| 1   | 296285-388   | VALVE, 5 SPOOL CONTROL       | 1    |                |
| 2   | 296285-322   | SPOOL YOKE                   | 1    |                |
| 3   | 296285-442   | LEVER M10 x 200mm            | 1    |                |
| 4   | 296285-423   | LEVER M8 x 150mm, RED        | 1    |                |
| 5   | 296271-877   | PRESSURE GAUGE STAFF 5000PSI | 1    |                |
| 6   | 296285-398   | VALVE, MANIFOLD              | 1    |                |
| 7   | 296285-332   | FILTER FLANGE                | 1    |                |
| 8   | Not Serviced | HOSE & ADAPTER KIT, HB80     | 1    | SEE PAGE 30-12 |
| 9   | 296285-425   | WISE POSITION VALVE          | 1    |                |
| 10  | 296296-872   | FILTER ASSEMBLY - HP         | 1    |                |

## HOSE &amp; ADAPTER ASSEMBLY - HB80 MAIN

1 OF 2

FIGURE 30-5

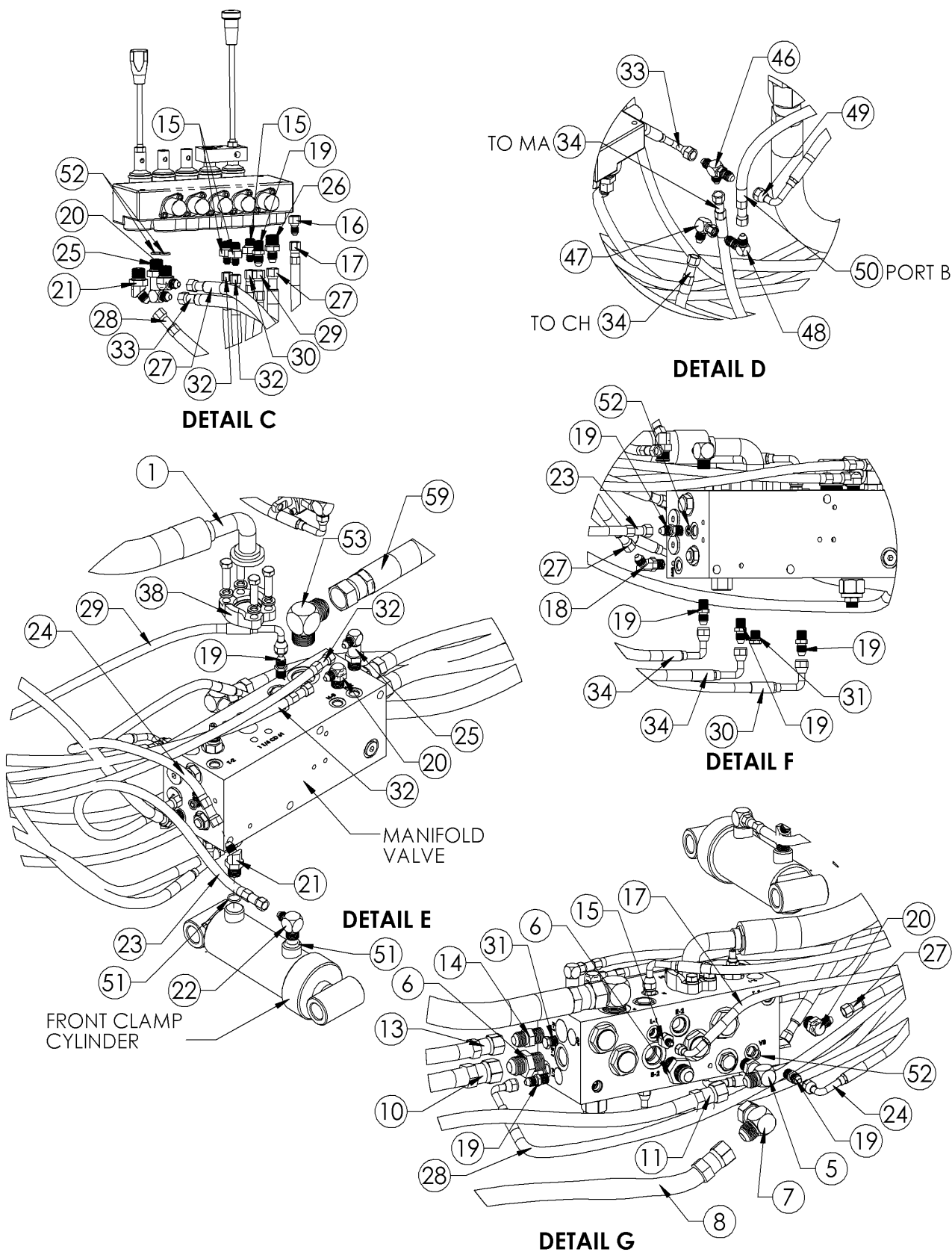


**HOSE & ADAPTER ASSEMBLY - HB80 MAIN, (1 OF 2)**

| ITEM NO. | PART NO.   | DESCRIPTION                     | QTY. | COMMENTS |
|----------|------------|---------------------------------|------|----------|
| 1        | 296285-391 | HOSE, TANK COUPLER              | 1    |          |
| 2        | 296260-887 | COUPLER, FEMALE, 1.5"           | 1    |          |
| 3        | 296285-335 | ADAPTER, 24MJ x 24MP BULKHEAD   | 1    |          |
| 4        | 296287-125 | ADAPTER, 10MJ x 10FJ SWIVEL     | 1    |          |
| 5        | 296285-424 | ELBOW, 10MJ x 10MB 90° LONG     | 2    |          |
| 6        | 290846-001 | ADAPTER, 12MJ x 12MB            | 3    |          |
| 7        | 248910-061 | ADAPTER, 12MJ x 12FJ 90°        | 1    |          |
| 8        | 296285-395 | HOSE, PULL BOOST                | 1    |          |
| 9        | 296271-820 | ELBOW, 12MJ x 12MB 45°          | 1    |          |
| 10       | 296285-340 | HOSE, RIGHT CYL. BASE           | 1    |          |
| 11       | 296285-344 | HOSE, LEFT CYL. ROD             | 1    |          |
| 12       | 290765-001 | ELBOW, 10MJ x 10MB 90°          | 1    |          |
| 13       | 296285-343 | HOSE, RIGHT CYL ROD             | 1    |          |
| 14       | 296274-874 | ADAPTER, 10MJ x 10MB            | 1    |          |
| 15       | 296274-877 | ADAPTER, 4MJ x 6MB              | 4    |          |
| 16       | 296285-347 | ADAPTER, 4MJ x 4FP              | 1    |          |
| 17       | 296285-392 | HOSE, GAUGE                     | 1    |          |
| 18       | 290766-001 | ELBOW, 6MJ x 6MB 45°            | 1    |          |
| 19       | 296274-884 | ADAPTER, 6MJ x 6MB              | 8    |          |
| 20       | 296271-999 | ELBOW, 6MJ x 6MB 90°            | 3    |          |
| 21       | 296274-987 | ELBOW, 6MJ x 8MB 45°            | 3    |          |
| 22       | 296279-109 | ELBOW, 6MJ x 8MB 90°            | 2    |          |
| 23       | 296276-330 | HOSE, REAR VISE BASE END        | 1    |          |
| 24       | 296285-348 | HOSE, RELIEF PRESSURE           | 1    |          |
| 25       | 296285-356 | ELBOW, 6MJ x 6MP LONG DROP      | 2    |          |
| 26       | 296274-884 | ADAPTER, 6MJ x 8MB              | 1    |          |
| 27       | 296285-358 | HOSE, SPOOL VALVE TANK          | 2    |          |
| 28       | 296285-394 | HOSE, PRESSURE                  | 1    |          |
| 29       | 296285-367 | HOSE, PULLBACK                  | 1    |          |
| 30       | 296285-437 | HOSE, SMALL PULLBACK            | 1    |          |
| 31       | 293804-001 | PLUG, -06MB                     | 2    |          |
| 32       | 296285-379 | HOSE, REAR CLAMP                | 2    |          |
| 33       | 296285-378 | HOSE, BUNGEE VALVE A            | 1    |          |
| 34       | 296285-377 | HOSE, BUNGEE MA                 | 2    |          |
| 35       | 296260-886 | NIPPLE, MALE 1.5"               | 1    |          |
| 36       | 296260-888 | CAP, FEMALE 1.5"                | 1    |          |
| 37       | 296293-606 | BUSHING, 24MP x 20FP            | 1    |          |
| 38       | 296285-430 | FLANGE KIT, 1.25" CODE 61       | 1    |          |
| 39       | 296285-431 | FLANGE KIT, 1.5" CODE 61        | 1    |          |
| 40       | 296285-382 | SUPPORT, HOSE, 2"               | 1    |          |
| 41       | 296285-396 | COVER PLATE, 2.0", HOSE SUPPORT | 1    |          |
| 42       | 296285-381 | HOSE, POWER PACK RETURN         | 1    |          |
| 43       | 296285-339 | PLUG, HOLLOW HEX - 10           | 2    |          |
| 44       | 296285-371 | O-RING, FLANGE                  | 1    |          |
| 45       | 296285-370 | PLUG, 8MB                       | 1    |          |
| 46       | 296293-622 | TEE, BULKHEAD 6MJ RUN           | 1    |          |
| 47       | 296279-113 | ELBOW, 6MJ x 6FJ 90°            | 1    |          |
| 48       | 296293-626 | ELBOW, BULKHEAD 6MJ x 6MJ       | 1    |          |
| 49       | 296285-357 | HOSE, SPINNER TANK              | 1    |          |
| 50       | 296285-376 | HOSE, BUNGEE RELEASE            | 1    |          |

## HOSE &amp; ADAPTER ASSEMBLY - HB80 MAIN, (2 OF 2)

FIGURE 30-5

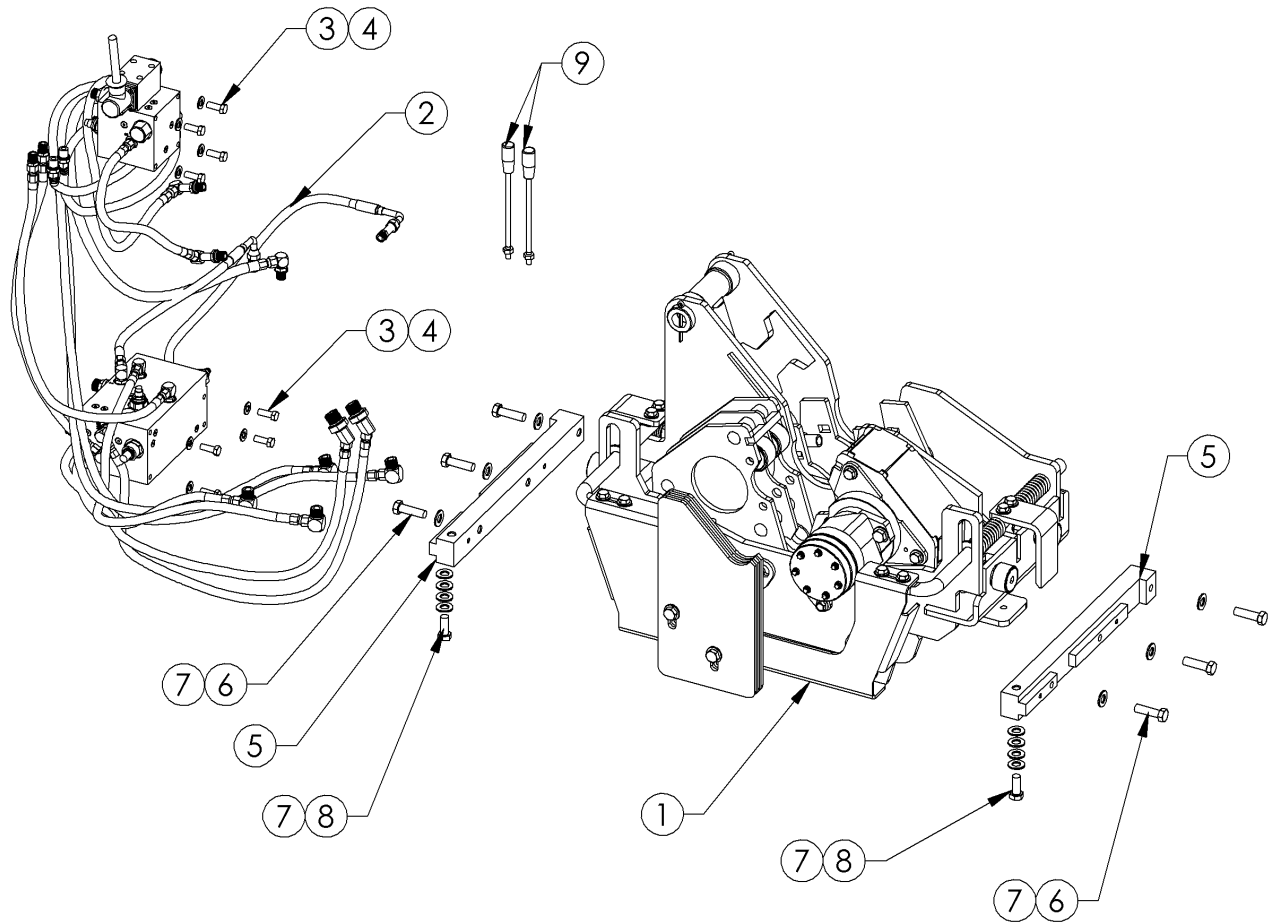


**HOSE & ADAPTER ASSEMBLY - HB80 MAIN, (2 OF 2)**

| ITEM NO. | PART NO.   | DESCRIPTION                     | QTY. | COMMENTS |
|----------|------------|---------------------------------|------|----------|
| 51       | 296293-688 | O-RING, -8 SAE TEFLON           | 2    |          |
| 52       | 296293-689 | O-RING, -6 SAE TEFLON           | 4    |          |
| 53       | 296263-916 | ELBOW, 16 MJ x 16 MB 90°        | 1    |          |
| 54       | 296287-217 | CAP, MALE                       | 1    |          |
| 55       | 296287-215 | COUPLER, FEMALE 1 1/4           | 1    |          |
| 56       | 296296-816 | REDUCER, 20MB X 16FB            | 2    |          |
| 57       | 296287-216 | REDUCER, 1 1/4"NPT x 1"FNPT     | 1    |          |
| 58       | 296296-817 | ELBOW, 16 MB- 16 MP 90°         | 1    |          |
| 59       | 296296-815 | HOSE, 16 G5K- 16 FJX-16 FJX-30' | 1    |          |
| 60       | 296296-957 | ELBOW, 16 MJ x 16 MB 90° - LONG | 1    |          |

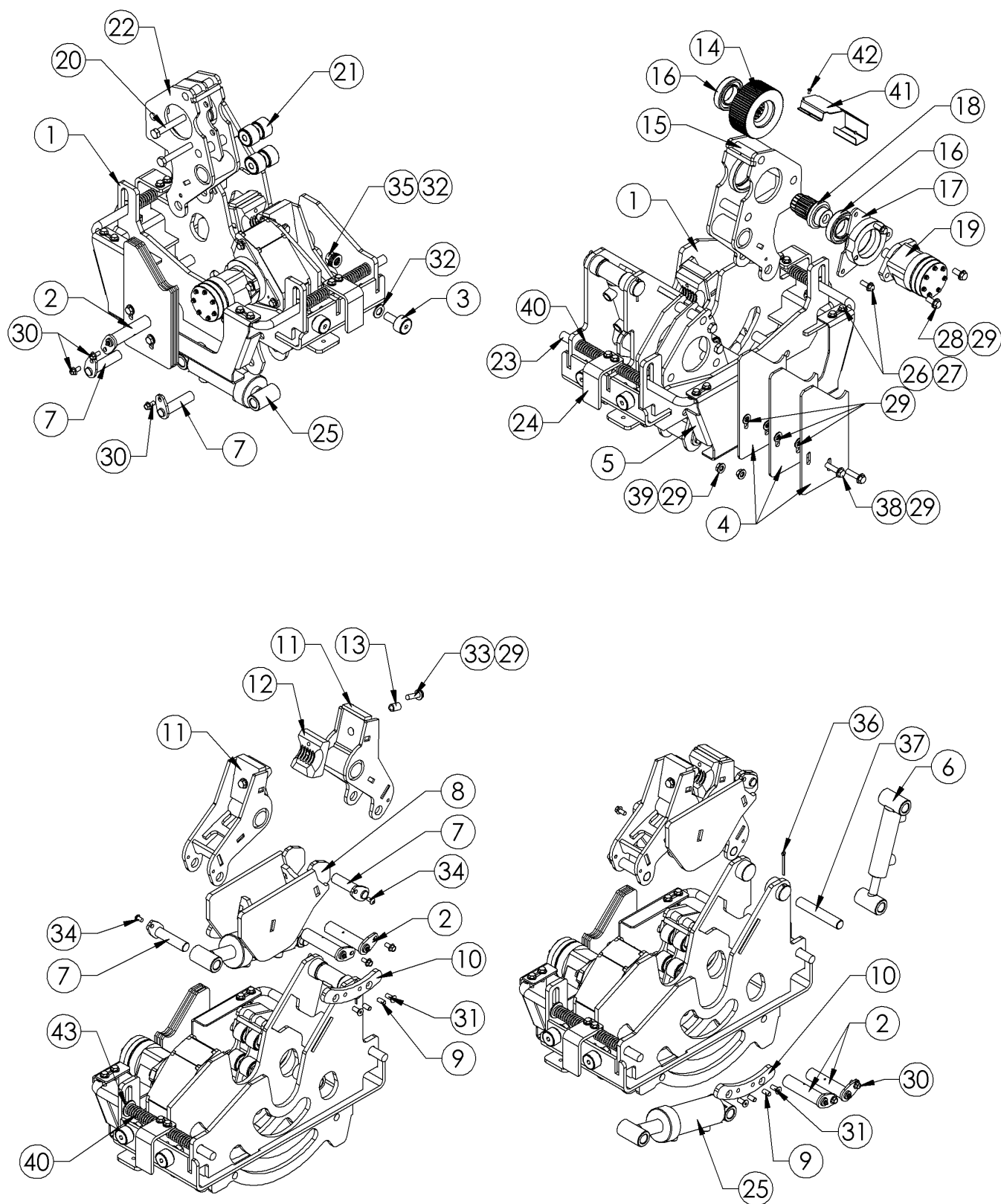
# SPINNER ASSEMBLY

## FIGURE 30-6



**SPINNER ASSEMBLY**

| ITEM NO. | PART NO.     | DESCRIPTION                    | QTY. | COMMENTS       |
|----------|--------------|--------------------------------|------|----------------|
| 0        | 296285-316   | SPINNER ASSEMBLY               | 1    | INCLUDES 1-9   |
| 1        | NOT SERVICED | SPINNERS SUB-ASSEMBLY          | 1    | SEE PAGE 30-18 |
| 2        | NOT SERVICED | HYDRAULIC ASSY, SPINNER        | 1    | SEE PAGE 30-20 |
| 3        | 16114-010    | BOLT, HHC 3/8-16 x 1" GR8      | 8    |                |
| 4        | 296271-869   | WASHER, 3/8" - HARD            | 8    |                |
| 5        | 296293-541   | GUIDE TRACK, LOWER - REAR      | 2    |                |
| 6        | 296285-399   | BOLT, HX HD 1/2-13 x 1.75" GR8 | 6    |                |
| 7        | 296271-785   | WASHER, 1/2" - HARD            | 14   |                |
| 8        | 296285-400   | BOLT, HX HD 1/2-13 x 1.25" GR8 | 2    |                |
| 9        | 296285-422   | LEVER, M8 x 200mm              | 2    |                |

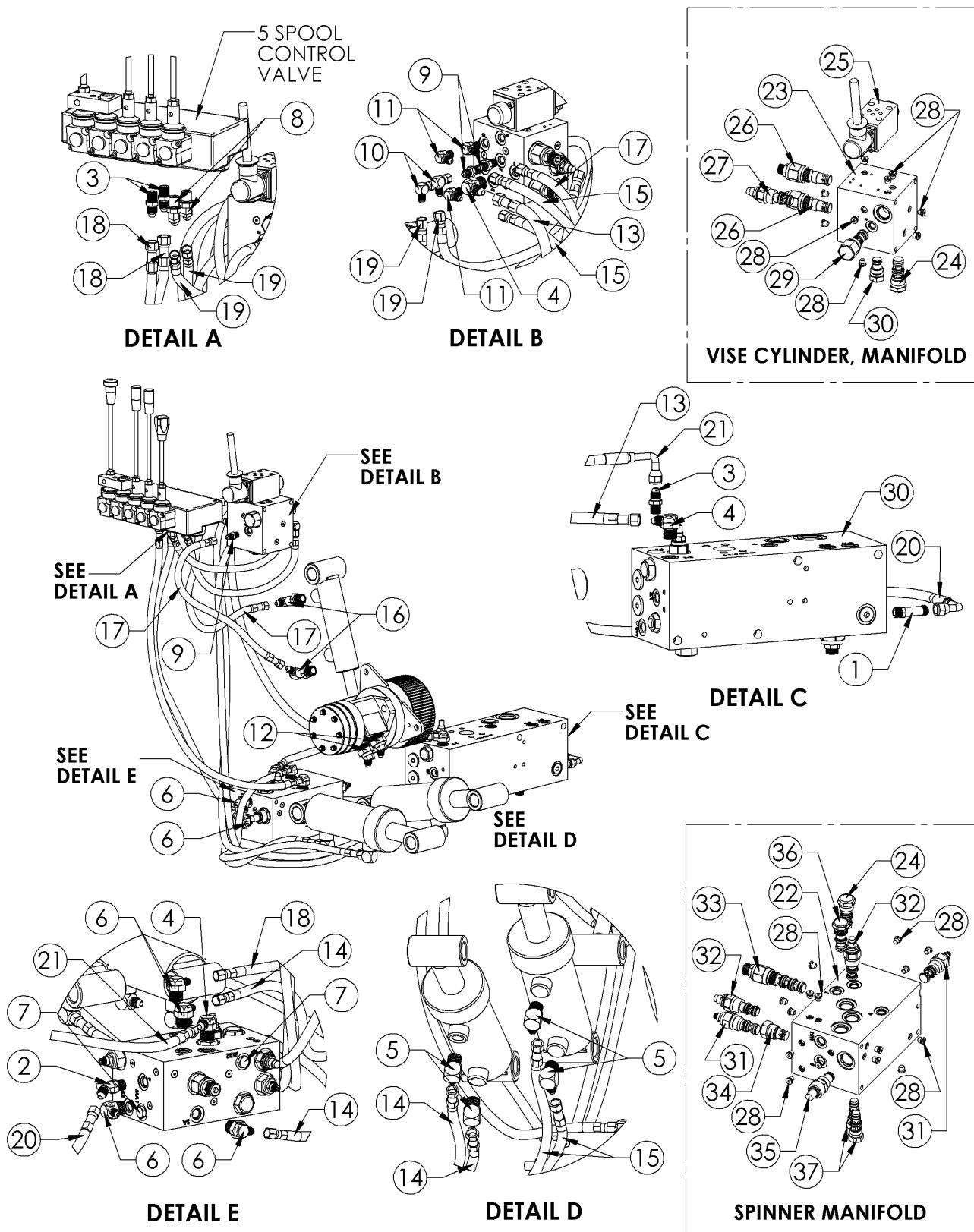
**SPINNER SUB-ASSEMBLY**  
**FIGURE 30-7**

## SPINNER SUB-ASSEMBLY

| ITEM NO. | PART NO.   | DESCRIPTION                    | QTY. | COMMENTS |
|----------|------------|--------------------------------|------|----------|
| 1        | 296285-309 | SPINNER FRAME                  | 1    |          |
| 2        | 296276-298 | PIN - 1.25                     | 4    |          |
| 3        | 296285-270 | TRACK ROLLER                   | 4    |          |
| 4        | 296285-314 | ROD CRADLE                     | 3    |          |
| 5        | 296285-315 | ROD CADDY                      | 1    |          |
| 6        | 296285-312 | CYLINDER, 1.5 x 3.5            | 1    |          |
| 7        | 296279-027 | PIN - 1.00                     | 5    |          |
| 8        | 296285-298 | WISE PIVOT FRAME               | 1    |          |
| 9        | 296279-083 | DOWEL PIN, 7/16 x 7/8          | 4    |          |
| 10       | 296285-300 | ARC, VISE GUIDE                | 2    |          |
| 11       | 296285-299 | TORQUE ARM                     | 2    |          |
| 12       | 296296-821 | WISE JAW                       | 2    |          |
| 13       | 296279-026 | JAW ARM, BUSHING               | 2    |          |
| 14       | 296285-306 | DRIVE ROLLER                   | 1    |          |
| 15       | 296285-305 | SPINNER ARM                    | 1    |          |
| 16       | 296285-301 | THRUST BEARING, DRIVEN SHAFT   | 2    |          |
| 17       | 296285-302 | PILLOW FLANGE                  | 1    |          |
| 18       | 296285-303 | SPINNER SHAFT                  | 1    |          |
| 19       | 296285-304 | SPINNER MOTOR                  | 1    |          |
| 20       | 296285-406 | SCREW, 5/8-18 x 4" HHC GR. 8   | 2    |          |
| 21       | 296285-308 | TRACK ROLLER YCRS-32           | 4    |          |
| 22       | 296285-307 | IDLER ARM                      | 1    |          |
| 23       | 296285-310 | SPRING ROD                     | 2    |          |
| 24       | 296285-311 | POSITION TAB                   | 2    |          |
| 25       | 296276-328 | CYLINDER, 2-1/2 x 3-1/2        | 2    |          |
| 26       | 296285-405 | BOLT, HX HD 7/16-14 x 1.25 GR8 | 11   |          |
| 27       | 296293-607 | WASHER, 7/16" - HARD           | 11   |          |
| 28       | 296285-400 | BOLT, HX HD 1/2-13 x 1.25" GR8 | 2    |          |
| 29       | 296271-785 | WASHER, 1/2" - HARD            | 16   |          |
| 30       | 4475-006   | BOLT, 3/8-16 X .75" FLANGE     | 6    |          |
| 31       | 241176-001 | SCREW, 7/16-14 x 1" FHC        | 4    |          |
| 32       | 98647-001  | WASHER, 3/4" - HARD            | 20   |          |
| 33       | 296285-399 | BOLT, HX HD 1/2-13 x 1.75" GR8 | 2    |          |
| 34       | 296279-084 | BOLT, BT HD SC 3/8-16 x 5/8    | 3    |          |
| 35       | 296285-403 | NUT, 3/4-16 TOP-LOCK, FINE     | 4    |          |
| 36       | 296285-402 | PIN, COTTER 3/16 x 2-1/2       | 2    |          |
| 37       | 296279-032 | PIN, 1.00 X 6.0                | 1    |          |
| 38       | 235718-001 | BOLT HHC 1/2-13 x 2" GR 8      | 2    |          |
| 39       | 423-001    | NUT, 1/2-13 TOP-LOCK           | 2    |          |
| 40       | 296271-987 | SPRING, MAST LOCK              | 4    |          |
| 41       | 296287-207 | COVER, SPINNER WHEEL           | 1    |          |
| 42       | 296279-040 | SCREW, PHILLIPS 10-24 x 3/8"   | 1    |          |
| 43       | 296287-208 | WASHER, 7/8" - HARD            | 2    |          |

# HOSE & ADAPTER KIT - SPINNER

## FIGURE 30-8



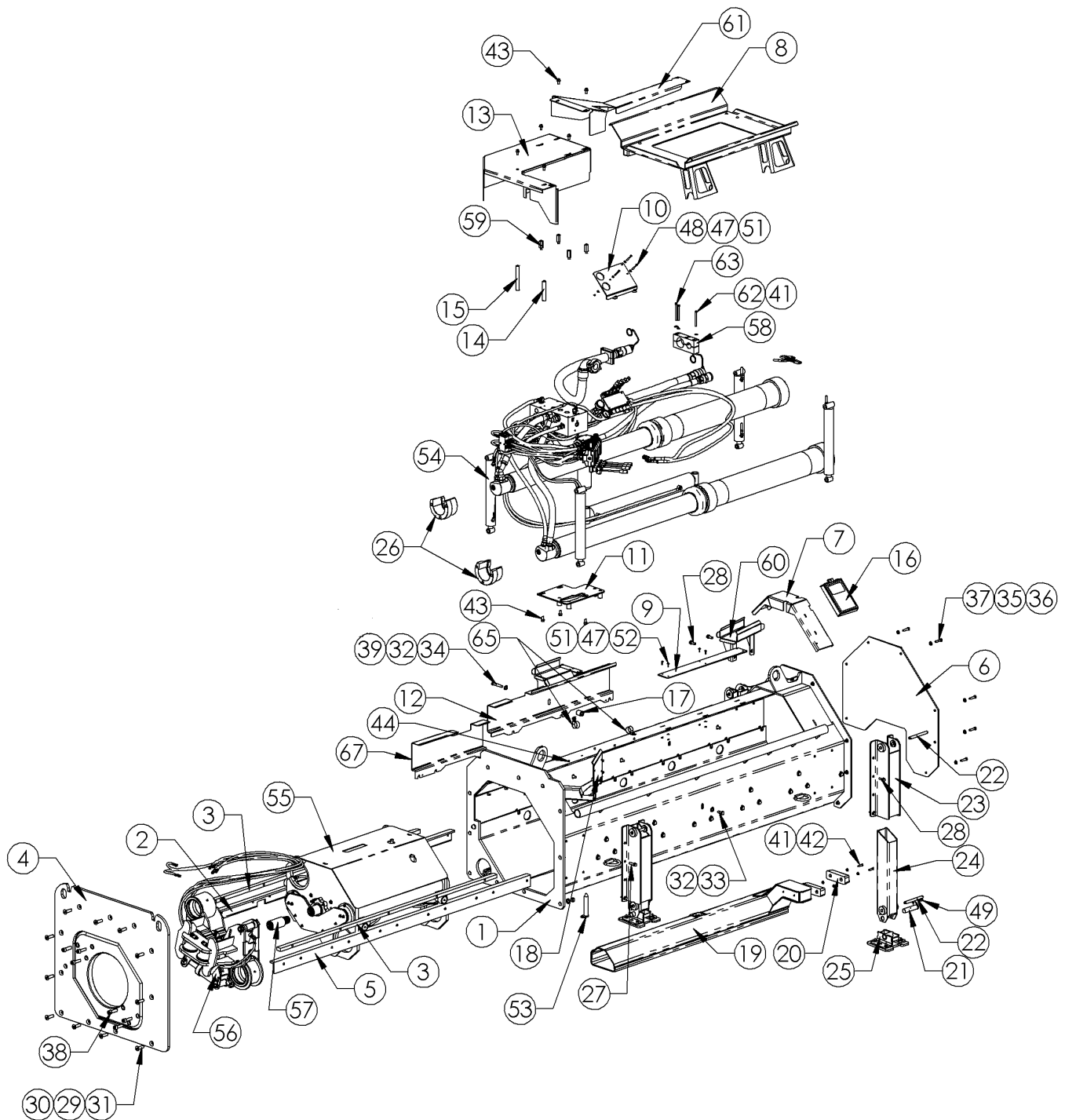
**HOSE & ADAPTER KIT - SPINNER**

| ITEM NO. | PART NO.   | DESCRIPTION                  | QTY. | COMMENTS |
|----------|------------|------------------------------|------|----------|
| 1        | 296271-821 | ADAPTER, 6MJ x 6MB LONG      | 1    |          |
| 2        | 290766-001 | ELBOW, 6MJ x 6MB 45°         | 1    |          |
| 3        | 296274-884 | ADAPTER, 6MJ x 6MB           | 3    |          |
| 4        | 296271-999 | ELBOW, 6MJ x 6MB 90°         | 3    |          |
| 5        | 296279-109 | ELBOW, 6MJ x 8MB 90°         | 4    |          |
| 6        | 286533-001 | ADAPTER, 6MB x 4MJ 90°       | 6    |          |
| 7        | 293804-001 | PLUG, -06MB                  | 2    |          |
| 8        | 296271-762 | ELBOW, 4MJ x 6MB 45°         | 2    |          |
| 9        | 60908-001  | ADAPTER, 4MJ x 4MB           | 3    |          |
| 10       | 283709-001 | ELBOW, 4MJ x 4FJ 90°         | 2    |          |
| 11       | 59423-001  | ADAPTER, 4MJ x 4MB 90°       | 3    |          |
| 12       | 296285-316 | ELBOW, 6MJ x 10MB 45°        | 2    |          |
| 13       | 296285-358 | HOSE, SPOOL VALVE TANK       | 1    |          |
| 14       | 296285-458 | ASSEMBLY, SPINNER CLAMP      | 1    |          |
| 15       | 296285-459 | ASSEMBLY, REAR CLAMP         | 1    |          |
| 16       | 296285-356 | ELBOW, 6MJ x 6MB LONG DROP   | 2    |          |
| 17       | 296285-362 | VALVE, VISE CONTROL          | 2    |          |
| 18       | 296285-363 | HOSE, SPINNER CLAMP ROD      | 2    |          |
| 19       | 296285-373 | HOSE, REAR VISE              | 2    |          |
| 20       | 296285-377 | HOSE, BUNGEE MA              | 1    |          |
| 21       | 296285-378 | HOSE, BUNGEE VALVE A         | 1    |          |
| 22       | 296285-331 | SPINNER MANIFOLD             | 1    |          |
| 23       | 296285-433 | MANIFOLD, VISE CYLINDER      | 1    |          |
| 24       | 296285-409 | VALVE, P.O. CHECK            | 1    |          |
| 25       | 296285-434 | VALVE, DIRECTIONAL           | 2    |          |
| 26       | 296279-175 | CARTRIDGE, PRESSURE SEQUENCE | 2    |          |
| 27       | 296285-421 | VALVE REDUCING/RELIEVING     | 1    |          |
| 28       | 296293-740 | PLUG, 2MB                    | 12   |          |
| 29       | 296285-411 | VALVE, CHECK, PILOT OPERATED | 1    |          |
| 30       | 296285-383 | CHECK VALVE, CARTRIDGE       | 1    |          |
| 31       | 296285-419 | VALVE, SEQUENCE              | 2    |          |
| 32       | 296260-822 | VALVE. PRESSURE REGULATOR    | 2    |          |
| 33       | 296285-412 | VALVE, 3-WAY DIRECTIONAL     | 1    |          |
| 34       | 296279-196 | CHECK VALVE                  | 1    |          |
| 35       | 296285-438 | VALVE, NEEDLE w/CHECK        | 1    |          |
| 36       | 296260-831 | SHUTTLE VALVE                | 1    |          |
| 37       | 296285-417 | VALVE, P.O. CHECK            | 2    |          |

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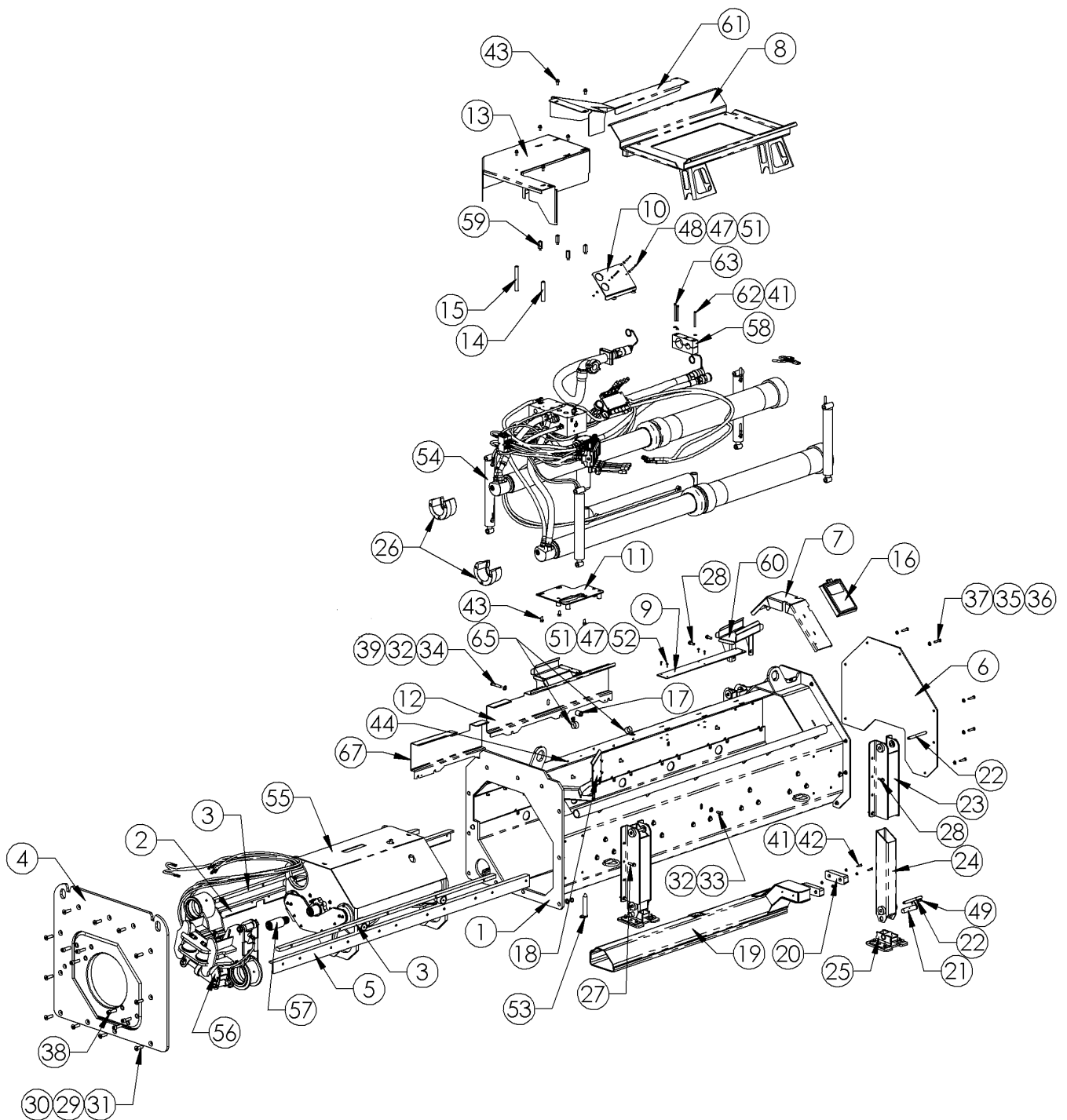
**HB125 HYDROBURST**

**SECTION 40**

**MAIN ASSEMBLY (1 OF 2)**  
**FIGURE 40-1**

## MAIN ASSEMBLY (1 OF 2)

| ITEM NO. | PART NO.    | DESCRIPTION                     | QTY. | COMMENTS       |
|----------|-------------|---------------------------------|------|----------------|
| 1        | 296279-114  | HULL                            | 1    |                |
| 2        | 296279-115  | TRACK GUIDE, LOWER              | 1    |                |
| 3        | 296279-116  | TRACK GUIDE, UPPER              | 2    |                |
| 4        | 296279-117  | FORWORD COVER PLATES            | 1    |                |
| 5        | 296279-119  | TRACK GUIDE, LOWER              | 1    |                |
| 6        | 296279-122  | REAR COVER                      | 1    |                |
| 7        | 296279-086  | COVER, REAR HOSE                | 1    |                |
| 8        | 296279-088  | ROD TRAY ASSEMBLY               | 1    | SEE PAGE 40-33 |
| 9        | 296279-090  | RUB STRIP                       | 1    |                |
| 10       | 296279-091  | VALVE MOUNT                     | 1    |                |
| 11       | 296279-092  | MANIFOLD MOUNT                  | 1    |                |
| 12       | 296296-876  | HOSE GUARD                      |      |                |
| 13       | 296279-095  | MANIFOLD COVER                  | 1    |                |
| 14       | 296279-096  | MANIFOLD COVER STANDOFF-SHORT   | 1    |                |
| 15       | 296279-097  | MANIFOLD COVER STANDOFF         | 1    |                |
| 16       | 142410-001  | BOX, LITERATURE                 | 1    |                |
| 17       | 296293-655  | SPACER, HOSE GUARD              |      |                |
| 18       | 296279-098  | VALVE MOUNT ARM                 | 1    |                |
| 19       | 296279-087  | REAR OUTRIGGER ARM              | 1    |                |
| 20       | 296271-981  | RUBBER BUMPER                   | 2    |                |
| 21       | 296276-298  | PIN - 1.25                      | 5    |                |
| 22       | 296276-300  | PIN, OUTRIGGER - .75            | 8    |                |
| 23       | 296279-120  | STABILIZER GUIDE                | 4    |                |
| 24       | 296279-121  | INNER STABILIZER LEG            | 4    |                |
| 25       | 296276-296  | STABILIZER FOOT SUB-ASSEMBLY    | 4    | SEE PAGE 40-34 |
| 26       | 296279-118  | ROD COLLAR                      | 2    |                |
| 27       | 296279-101  | BOLT, FLANGE 1/2-13 x 2" GR 8   | 2    |                |
| 28       | 296278-291  | BOLT, FLANGE 1/2-13 x 1.5" GR 8 | 18   |                |
| 29       | 98647-001   | WASHER, 3/4" - HARD             | 11   |                |
| 30       | 397-001     | NUT, 3/4-10 TOP-LOCK            | 11   |                |
| 31       | 251855-001  | BOLT, FHSCS 3/4-10 x 2.5        | 11   |                |
| 32       | 615342-001  | WASHER, 5/8" - HARD             | 34   |                |
| 33       | 230727-001C | BOLT, HHC 5/8-11 x 1.5 GR8      | 31   |                |
| 34       | 238208-001  | BOLT, HHC 5/8-11 x 3.5 GR 8     | 1    |                |
| 35       | 296271-785  | WASHER, 1/2" - HARD             | 14   |                |
| 36       | 423-001     | NUT, 1/2-13 TOP-LOCK            | 7    |                |
| 37       | 235718-001  | BOLT HHC 1/2-13 x 2" GR 8       | 7    |                |
| 38       | 296279-100  | SCREW, SHC 3/4-10 x 2.5         | 6    |                |
| 39       | 430-001     | NUT, 5/8-11 TOP-LOCK            | 1    |                |
| 40       | 147274-001  | BOLT, HHC 5/8-11 x 6.50 GR8     | 1    |                |
| 41       | 296271-869  | WASHER, 3/8" - HARD             | 10   |                |
| 42       | 16114-014   | BOLT, HHC 3/8-16 x 1.5 GR 8     | 4    |                |
| 43       | 296278-290  | BOLT, FLANGE 1/2-13 x 1" GR8    | 9    |                |
| 44       | 4475-006    | BOLT, 3/8-16 X .75" FLANGE      | 6    |                |
| 45       | 296271-964  | WASHER, 5/16" - HARD            | 5    |                |
| 46       | 229229-375  | BOLT, METRIC M8-1.25 x 20       | 3    |                |
| 47       | 296271-826  | WASHER, 1/4" - HARD             | 10   |                |
| 48       | 296285-401  | BOLT, HX HD 1/4-20 x 2.5" GR.8  | 3    |                |
| 49       | 296278-288  | BOLT, 3/8-16 x .625" FLANGE     | 9    |                |

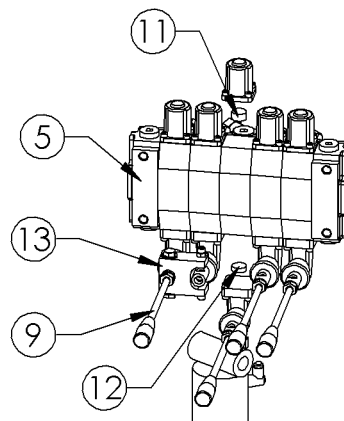
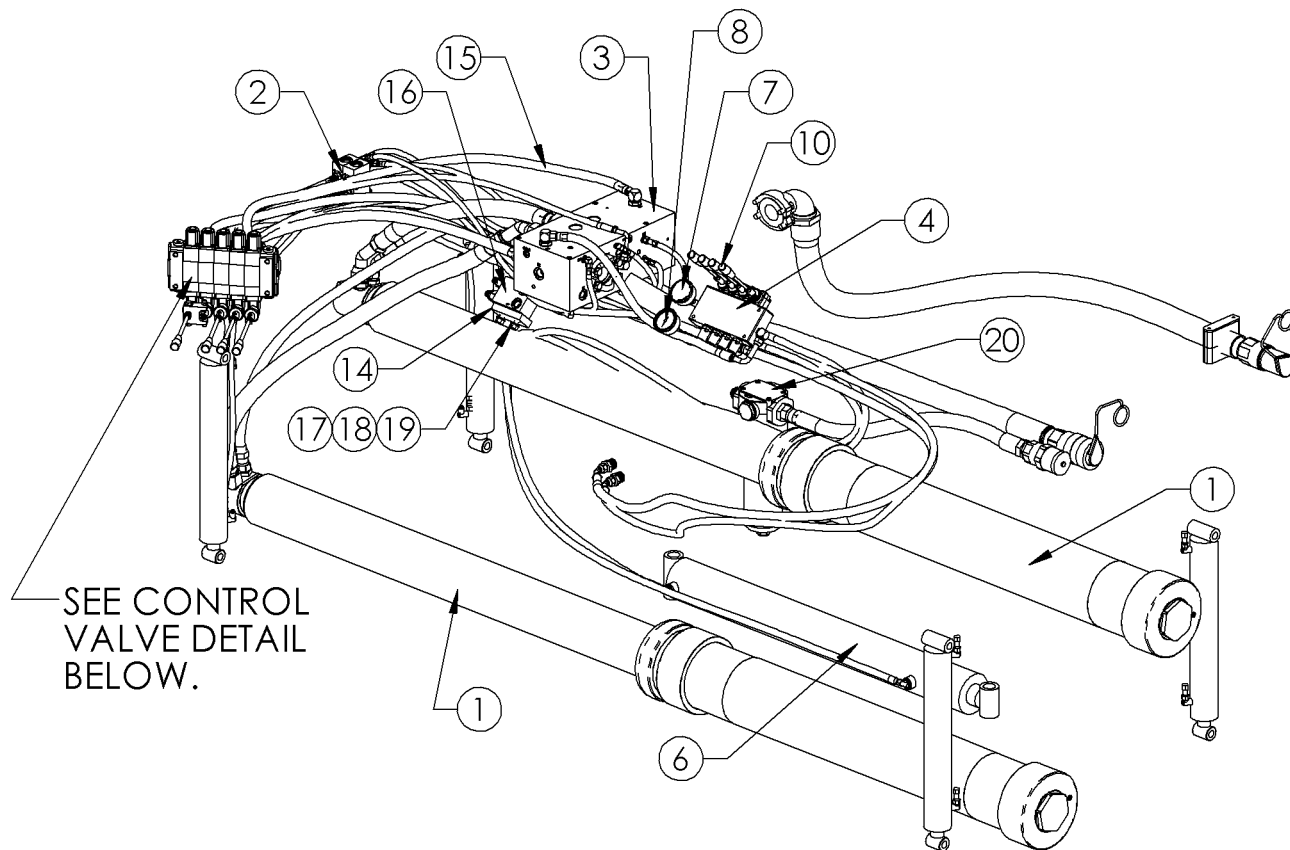
**MAIN ASSEMBLY (2 OF 2)**  
**FIGURE 40-1**

**MAIN ASSEMBLY (2 OF 2)**

| ITEM NO. | PART NO.     | DESCRIPTION                       | QTY. | COMMENTS              |
|----------|--------------|-----------------------------------|------|-----------------------|
| 50       | 351-030      | BOLT, HHC 5/16-18 x 3.5           | 2    |                       |
| 51       | 403-001      | NUT, 1/4-20 TOP-LOCK              | 4    |                       |
| 52       | 373-010      | BOLT, CARRIAGE 1/4-20 x 1         | 4    |                       |
| 53       | 296279-099   | PIN, 1.25 x 7.0                   | 1    |                       |
| 54       | Not Serviced | HYDRAULIC ASSEMBLY                | 1    | SEE PAGE 20-7 & 20-15 |
| 55       | 296276-493   | SPINDLE ASSEMBLY (SEE PAGE 40-23) | 1    |                       |
| 56       | 296279-014   | WISE ASSEMBLY (SEE PAGE 40-29)    | 1    |                       |
| 57       | 296278-279   | SUB-SAVER                         | 1    |                       |
| 58       | 296279-102   | HOSE CLAMP                        | 1    |                       |
| 59       | 296279-093   | STANDOFF                          | 4    |                       |
| 60       | 296279-085   | HOSE TRAY                         | 1    |                       |
| 61       | 913-7980     | HOSE GUARD                        | 1    |                       |
| 62       | 238246-001   | BOLT, HX HD, 3/8-16 x 4.5 GR8     | 4    |                       |
| 63       | 600086-001   | SCREW, SHC, 3/8-16 x 5.0"         | 2    |                       |
| 64       | 296293-621   | WASHER, USS THRU - HARD 3/8"      | 2    |                       |
| 65       | 296271-770   | CLAMP, 2"                         | 2    |                       |
| 66       | 397-001      | NUT, 3/4-10, TOP LOCK             | 2    |                       |
| 67       | 296296-871   | HOSE COVER, REAR-SECONDARY        | 1    |                       |

## HYDRAULIC ASSEMBLY, (S/N 10017 AND UP)

FIGURE 40-2

CONTROL VALVE  
SPACER PLACEMENT

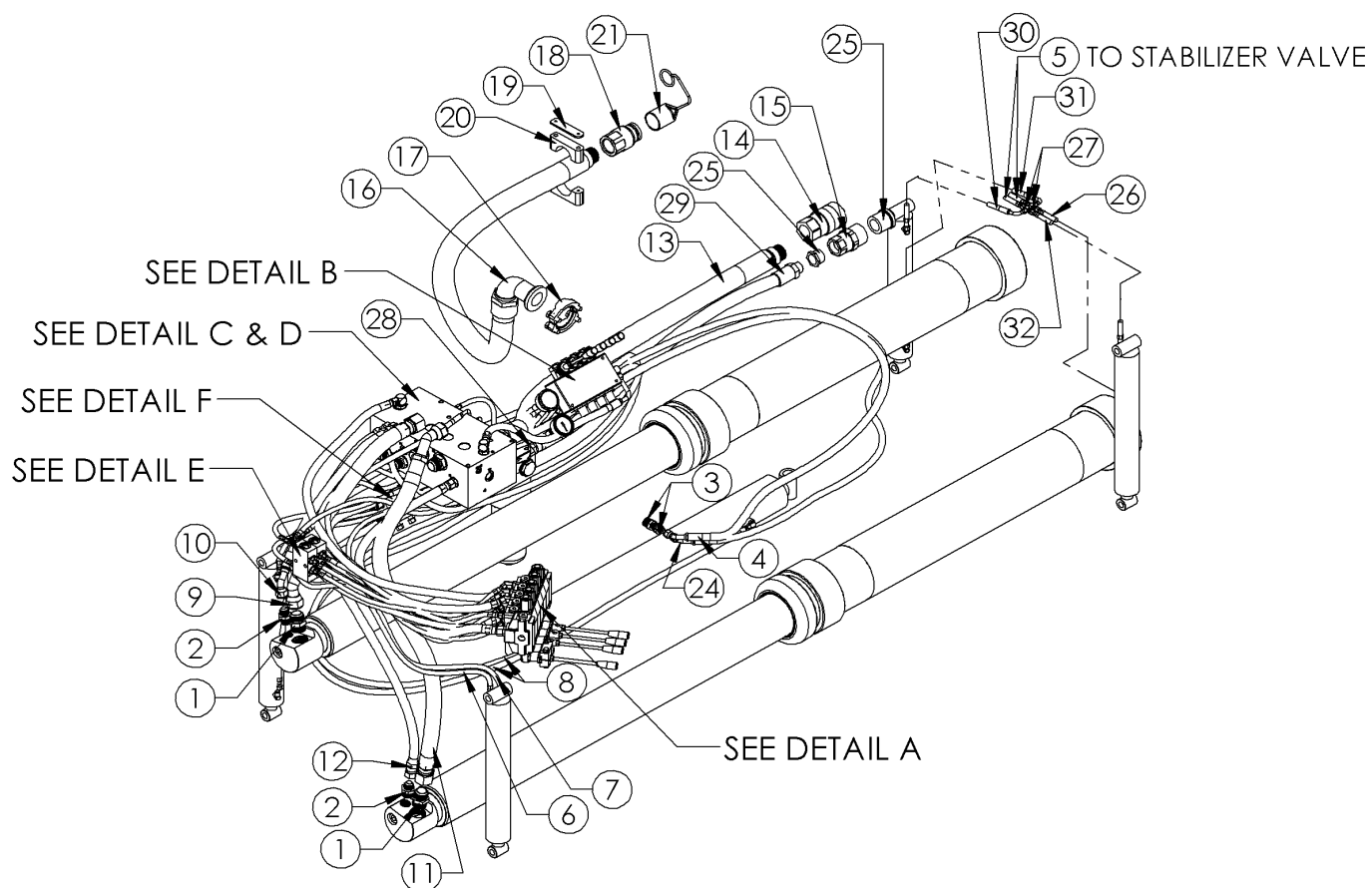
# **HYDRAULIC ASSEMBLY FOR UNITS S/N 10017 AND UP**

| ITEM NO. | PART NO.     | DESCRIPTION                        | QTY | COMMENTS    |
|----------|--------------|------------------------------------|-----|-------------|
| 1        | 296274-981   | CYLINDER, 600                      | 2   |             |
| 2        | 296274-976   | VALVE, DUEL P.O. CHECK             | 2   |             |
| 3        | 296274-977   | VALVE, MANIFOLD - HB125            | 1   |             |
| 4        | 296274-978   | VALVE, 4 SPOOL STABILIZER          | 1   |             |
| 5        | 296274-979   | VALVE, 5 SPOOL CONTROL - HB125     | 1   |             |
| 6        | 296274-980   | CYLINDER 4 x 36                    | 1   |             |
| 7        | 229229-309   | PRESSURE GAUGE, 3000 PSI           | 1   |             |
| 8        | 296271-877   | PRESSURE GAUGE, 5000 PSI           | 1   |             |
| 9        | 296278-445   | LEVER 10M x 200mm                  | 4   |             |
| 10       | 296278-446   | LEVER M8 x 120mm                   | 4   |             |
| 11       | 296278-447   | SPACER - TOP LIMITER               | 1   |             |
| 12       | 296278-448   | SPACER - BOTTOM LIMITER            | 1   |             |
| 13       | 296278-449   | STEP CONTROL YOKE                  | 1   |             |
| 14       | 296276-295   | CYLINDER - 2.5 x 16                | 4   |             |
| 15       | Not Serviced | HOSE AND ADAPTER KIT -] HB125 MAIN | 1   | SEE PG 20-9 |
| 16       | 296276-329   | VALVE, SEQUENCE                    | 1   |             |
| 17       | 296279-112   | BOLT, HX HD 1/4-20 x 3.75          | 2   |             |
| 18       | 296287-163   | PLATE, SPACER                      | 1   |             |
| 19       | 296278-290   | BOLT, FLANGE 1/2-13 x 1" GR8       | 2   |             |
| 20       | 296296-872   | FILTER ASSEMBLY - HP               | 1   |             |

## HOSE &amp; ADAPTER KIT - HB125 MAIN (S/N 10017 AND UP)

(1 OF 3)

FIGURE 40-3



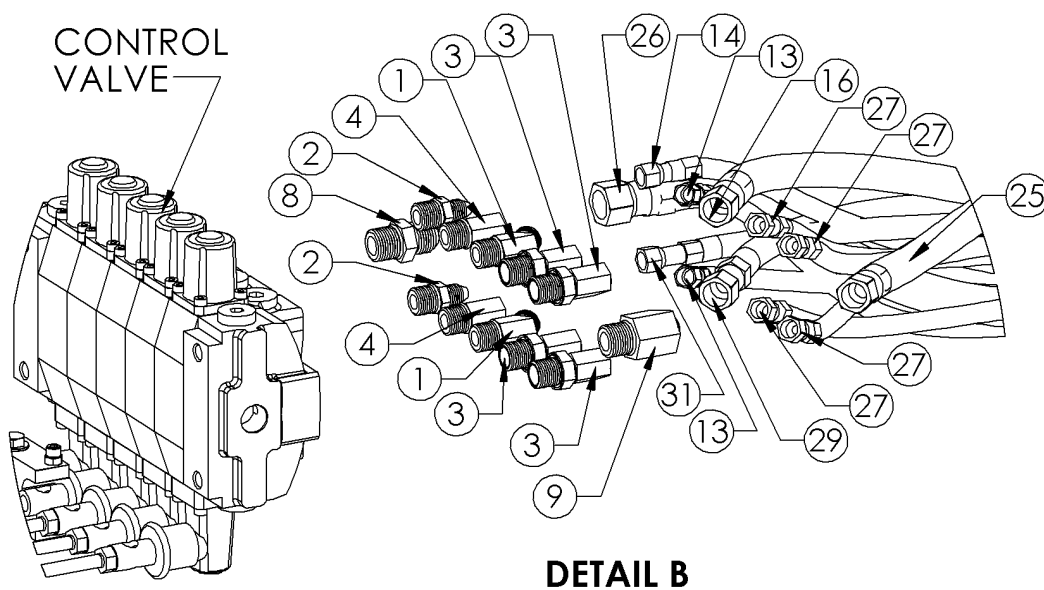
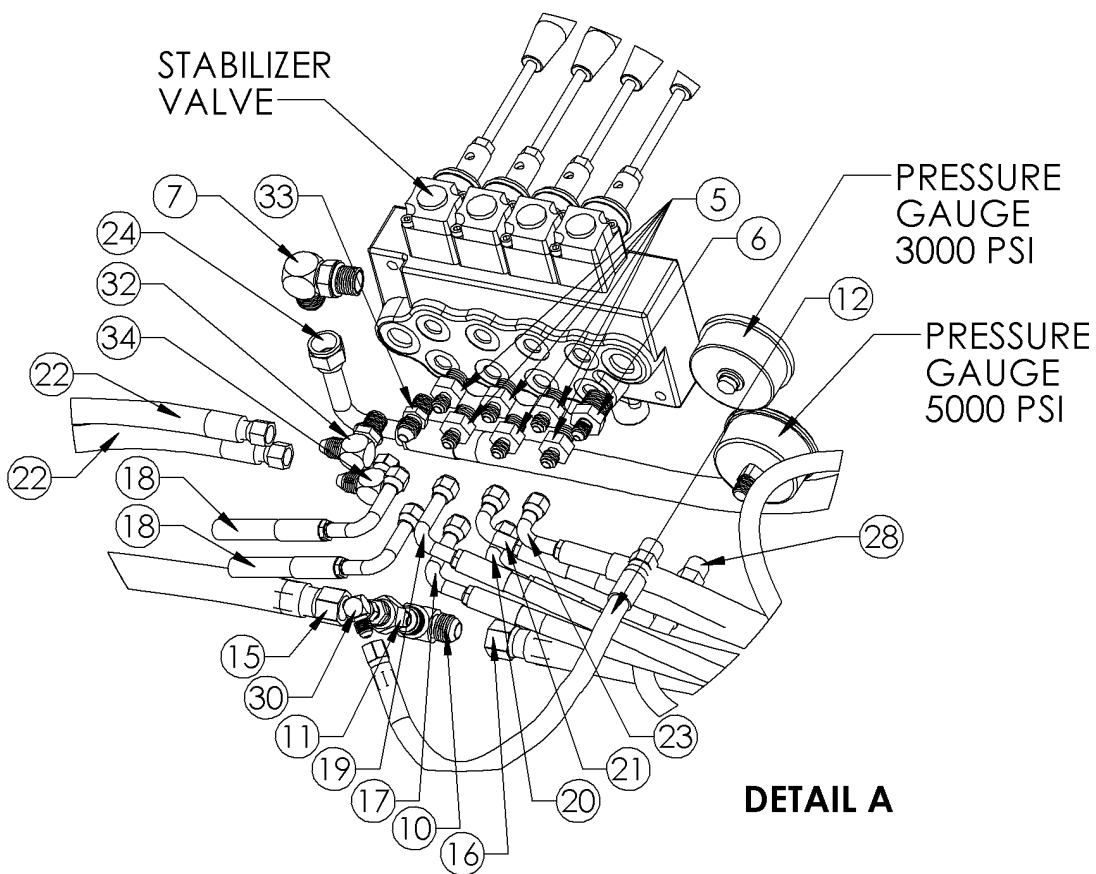
**HOSE & ADAPTER KIT, HB125 MAIN (S/N 10017 AND UP)**

| ITEM NO. | PART NO.   | DESCRIPTION               | QTY. | COMMENTS |
|----------|------------|---------------------------|------|----------|
| 1        | 296271-816 | ADAPTER 20MJ x 20MB       | 4    |          |
| 2        | 290846-001 | ADAPTER 12MJ x 12MB       | 4    |          |
| 3        | 290957-001 | ADAPTER, 8MJ x 12MB       | 2    |          |
| 4        | 296274-993 | HOSE, 8FJ-8FJ45 x 96      | 1    |          |
| 5        | 296276-256 | HOSE, 4FJ-4FJ90L x 72     | 2    |          |
| 6        | 296276-252 | HOSE, 6FJ-4FJ90 x 92      | 1    |          |
| 7        | 296276-253 | HOSE, 6FJ-4FJ90 x 111     | 1    |          |
| 8        | 296278-485 | OUTRIGGER HOSE ASSEMBLY   | 1    |          |
| 9        | 296276-265 | HOSE, 20FJ-20FJ45 x 29    | 1    |          |
| 10       | 296276-266 | HOSE, 12FJ-12FJ45 x 29    | 1    |          |
| 11       | 296276-267 | HOSE, 20FJ-20FJ45 x 55    | 1    |          |
| 12       | 296276-268 | HOSE, 12FJ-12FJ x 59      | 1    |          |
| 13       | 296260-885 | HOSE, TANK PORT 57.5      | 1    |          |
| 14       | 296260-887 | COUPLER, FEMALE 1.5       | 1    |          |
| 15       | 296287-215 | COUPLER, FEMALE 1-1/4     | 1    |          |
| 16       | 296260-884 | HOSE, FILTER RETURN       | 1    |          |
| 17       | 296276-404 | FLANGE KIT, 2.5" CODE 61  | 1    |          |
| 18       | 296260-886 | NIPPLE, MALE 1.5          | 1    |          |
| 19       | 296276-411 | PLATE, COVER 2.5          | 1    |          |
| 20       | 296276-410 | SUPPORT, HOSE 2.5         | 1    |          |
| 21       | 296260-889 | CAP, MALE COUPLER 1.5     | 1    |          |
| 22       | 296260-888 | CAP, FEMALE COUPLER 1.5   | 1    |          |
| 23       | 296287-217 | CAP, FEMALE               | 1    |          |
| 24       | 296287-162 | HOSE, VALVE TO MOTOR      | 1    |          |
| 25       | 296287-216 | REDUCER, 20 NPT x 16 FNPT | 1    |          |
| 26       | 296274-994 | HOSE, 6FJ-4FJ x 50        | 1    |          |
| 27       | 296296-868 | TEE, BULKHEAD 4MJ RUN     | 2    |          |
| 28       | 296271-818 | ADAPTER, 16MJ x 20MB      | 2    |          |
| 29       | 296296-867 | HOSE, 16MP-16FJX x 40     | 1    |          |
| 30       | 296296-869 | HOSE, 6FJ-4FJ90 x 26      | 1    |          |
| 31       | 296296-870 | HOSE, 6FJ-4FJ90 x 43      | 1    |          |
| 32       | 296285-360 | HOSE, SPINNER MB          | 1    |          |

## HOSE &amp; ADAPTER KIT - HB125 MAIN (S/N 10017 AND UP)

(2 OF 3)

FIGURE 40-3

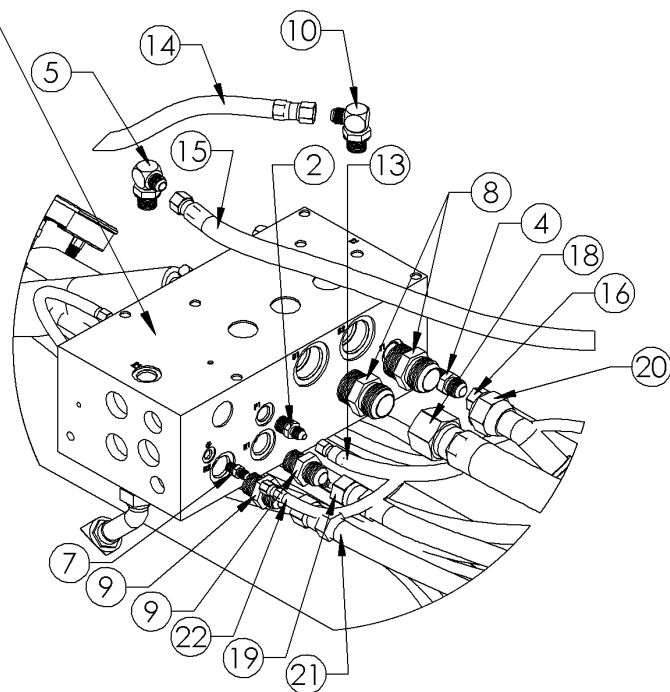


**HOSE & ADAPTER KIT - HB125 MAIN (S/N 10017 AND UP)**

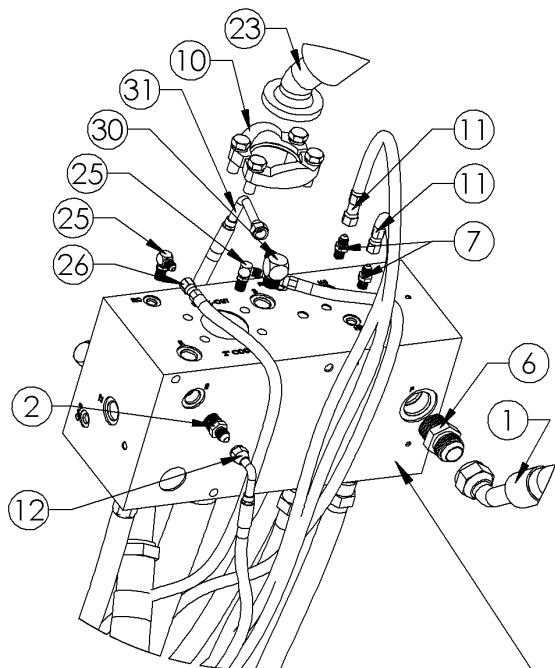
| ITEM NO. | PART NO.   | DESCRIPTION             | QTY. | COMMENTS |
|----------|------------|-------------------------|------|----------|
| 1        | 296274-988 | ELBOW 8MJ x 8MB 45°     | 2    |          |
| 2        | 296274-884 | ADAPTER, 6MJ x 8MB      | 4    |          |
| 3        | 96274-987  | ELBOW, 6MJ x 8MB 45°    | 4    |          |
| 4        | 296274-986 | ELBOW, 4MJ x 8MB 45°    | 2    |          |
| 5        | 296274-877 | ADAPTER, 4MJ x 6MB      | 6    |          |
| 6        | 60721-001  | ADAPTER, 4MJ x 8MB      | 13   |          |
| 7        | 53837001   | ELBOW, 8MJ x 8MB 90°    | 1    |          |
| 8        | 296274-874 | ADAPTER, 10MJ x 10MB    | 2    |          |
| 9        | 296274-985 | ELBOW, 8MJ x 10MB 45°   | 1    |          |
| 10       | 296279-108 | TEE, 8MJ x 8MJ x 8MJ    | 1    |          |
| 11       | 86106-001  | REDUCER, 4MJ x 8FJ      | 1    |          |
| 12       | 296273-079 | HOSE, 4FJ - 4FP x 14    | 1    |          |
| 13       | 296274-990 | HOSE, 4FJ - 4FJ x 78    | 2    |          |
| 14       | 296274-992 | HOSE, 6FJ-6FJ90 x 57    | 1    |          |
| 15       | 296274-993 | HOSE, 8FJ-8FJ45 x 96    | 1    |          |
| 16       | 296274-999 | HOSE, 8FJ-8FJ x 78      | 1    |          |
| 17       | 296276-257 | HOSE, 6FJ-4FJ90 x 51    | 1    |          |
| 18       | 296276-256 | HOSE, 4FJ-4FJ90L x 72   | 2    |          |
| 19       | 296276-258 | HOSE, 6FJ-4FJ90L x 66   | 1    |          |
| 20       | 296276-252 | HOSE, 6FJ-4FJ90 x 92    | 1    |          |
| 21       | 296276-253 | HOSE, 6FJ-4FJ90 x 111   | 1    |          |
| 22       | 296278-485 | OUTRIGGER HOSE ASSEMBLY | 1    |          |
| 23       | 296276-259 | HOSE, 6FJ-4FJ90 x 38    | 1    |          |
| 24       | 296276-260 | HOSE, 8FJ-8FJ90L x 33   | 1    |          |
| 25       | 296276-262 | HOSE, 8FJ-8FJ x 62      | 1    |          |
| 26       | 296276-263 | HOSE, 10FJ-10FJ x 49    | 1    |          |
| 27       | 296276-264 | HOSE, 6FJ-4FJ x 28      | 4    |          |
| 28       | 296276-270 | HOSE, 4FJ-4FP x 40      | 1    |          |
| 29       | 296287-162 | HOSE, VALVE TO MOTOR    | 1    |          |
| 30       | 283709-001 | ELBOW, 4MJ-4FJ 90°      | 3    |          |
| 31       | 296274-991 | HOSE, 6FJ-6FJ90L x 62   | 1    |          |
| 32       | 296271-999 | ELBOW, 6MJ x 6MB 90°    | 1    |          |
| 33       | 296274-884 | ADAPTER, 6MJ x 6MB      | 1    |          |
| 34       | 296279-113 | ELBOW, 6MJ x 6FJ 90°    | 1    |          |
| 35       | 296271-818 | ADAPTER, 16MJ x 20MB    | 2    |          |

**HOSE & ADAPTER KIT - HB125 MAIN, (3 OF 3)**  
**FOR UNITS S/N 10017 AND UP**  
**FIGURE 40-3**

MANIFOLD VALVE  
TOP VIEW



**DETAIL C**

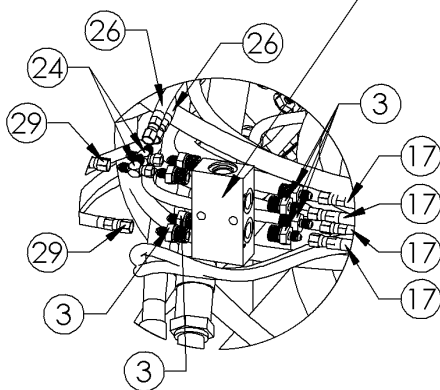


MANIFOLD VALVE  
BOTTOM VIEW

**DETAIL D**

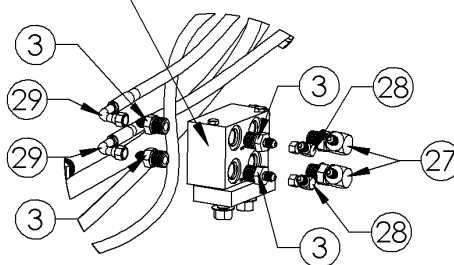
NOTE;  
SOME HOSES AND FITTINGS HAVE  
BEEN REMOVED FOR CLERITY.

DUAL P.O.  
CHECK VALVE



**DETAIL E**

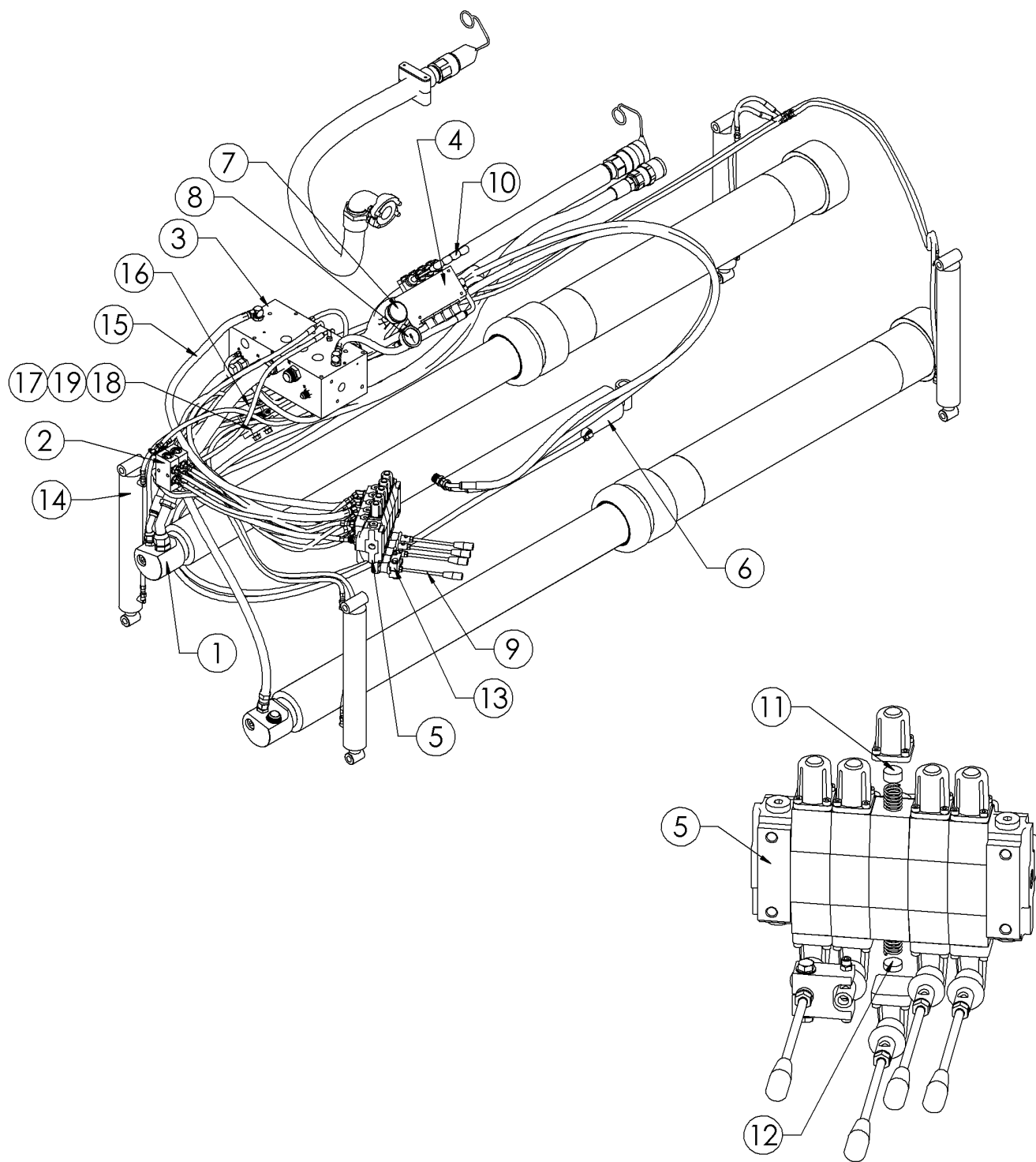
SEQUENCE  
VALVE



**DETAIL F**

**HOSE & ADAPTER KIT - HB125 MAIN  
FOR UNITS S/N 10017 AND UP**

| ITEM NO. | PART NO.   | DESCRIPTION              | QTY. | COMMENTS |
|----------|------------|--------------------------|------|----------|
| 1        | 296296-866 | HOSE, 16MP-16FJX45 x 17  | 1    |          |
| 2        | 296274-884 | ADAPTER, 6MJ x 8MB       | 4    |          |
| 3        | 60721-001  | ADAPTER, 4MJ x 8MB       | 13   |          |
| 4        | 296274-874 | ADAPTER, 10MJ x 10MB     | 2    |          |
| 5        | 296273-092 | ELBOW, 8MJ x 10MB 90°    | 2    |          |
| 6        | 296263-913 | ADAPTER 16MJ x 16MB      | 1    |          |
| 7        | 60908-001  | ADAPTER, 4MJ x 4MB       | 3    |          |
| 8        | 296271-816 | ADAPTER 20MJ x 20MB      | 4    |          |
| 9        | 290846-001 | ADAPTER 12MJ x 12MB      | 4    |          |
| 10       | 296276-403 | FLANGE KIT, 2" CODE 61   | 1    |          |
| 11       | 296274-990 | HOSE, 4FJ - 4FJ x 78     | 2    |          |
| 12       | 296274-992 | HOSE, 6FJ-6FJ90 x 57     | 1    |          |
| 13       | 296276-259 | HOSE, 6FJ-4FJ90 x 38     | 1    |          |
| 14       | 296276-260 | HOSE, 8FJ-8FJ90L x 33    | 1    |          |
| 15       | 296276-262 | HOSE, 8FJ-8FJ x 62       | 1    |          |
| 16       | 296276-263 | HOSE, 10FJ-10FJ x 49     | 1    |          |
| 17       | 296276-264 | HOSE, 6FJ-4FJ x 28       | 4    |          |
| 18       | 296276-265 | HOSE, 20FJ-20FJ45 x 29   | 1    |          |
| 19       | 296276-266 | HOSE, 12FJ-12FJ45 x 29   | 1    |          |
| 20       | 296276-267 | HOSE, 20FJ-20FJ45 x 55   | 1    |          |
| 21       | 296276-268 | HOSE, 12FJ-12FJ x 59     | 1    |          |
| 22       | 296276-270 | HOSE, 4FJ-4FP x 40       | 1    |          |
| 23       | 296260-885 | HOSE, TANK PORT 57.5     | 1    |          |
| 24       | 296279-171 | TEE 4MJ x 4MJ x 4FJX     | 2    |          |
| 25       | 59423001   | ELBOW, 4MJ x 4MB 90°     | 2    |          |
| 26       | 296278-293 | HOSE, 4FJX x 4FJX x 41.5 | 2    |          |
| 27       | 296287-164 | ELBOW, 4MJ x 8MB 90°     | 2    |          |
| 28       | 283709-001 | ELBOW, 4MJ-4FJ 90°       | 3    |          |
| 29       | 296276-271 | HOSE, 4FJ-4FJ90 x 32     | 2    |          |
| 30       | 296279-109 | ELBOW, 6MJ x 8MB 90°     | 1    |          |
| 31       | 296274-991 | HOSE, 6FJ-6FJ90L x 62    | 1    |          |

**HYDRAULIC ASSEMBLY (PRIOR TO S/N 10017)  
FIGURE 40-4**

CONTROL VALVE  
SPACER PLACEMENT

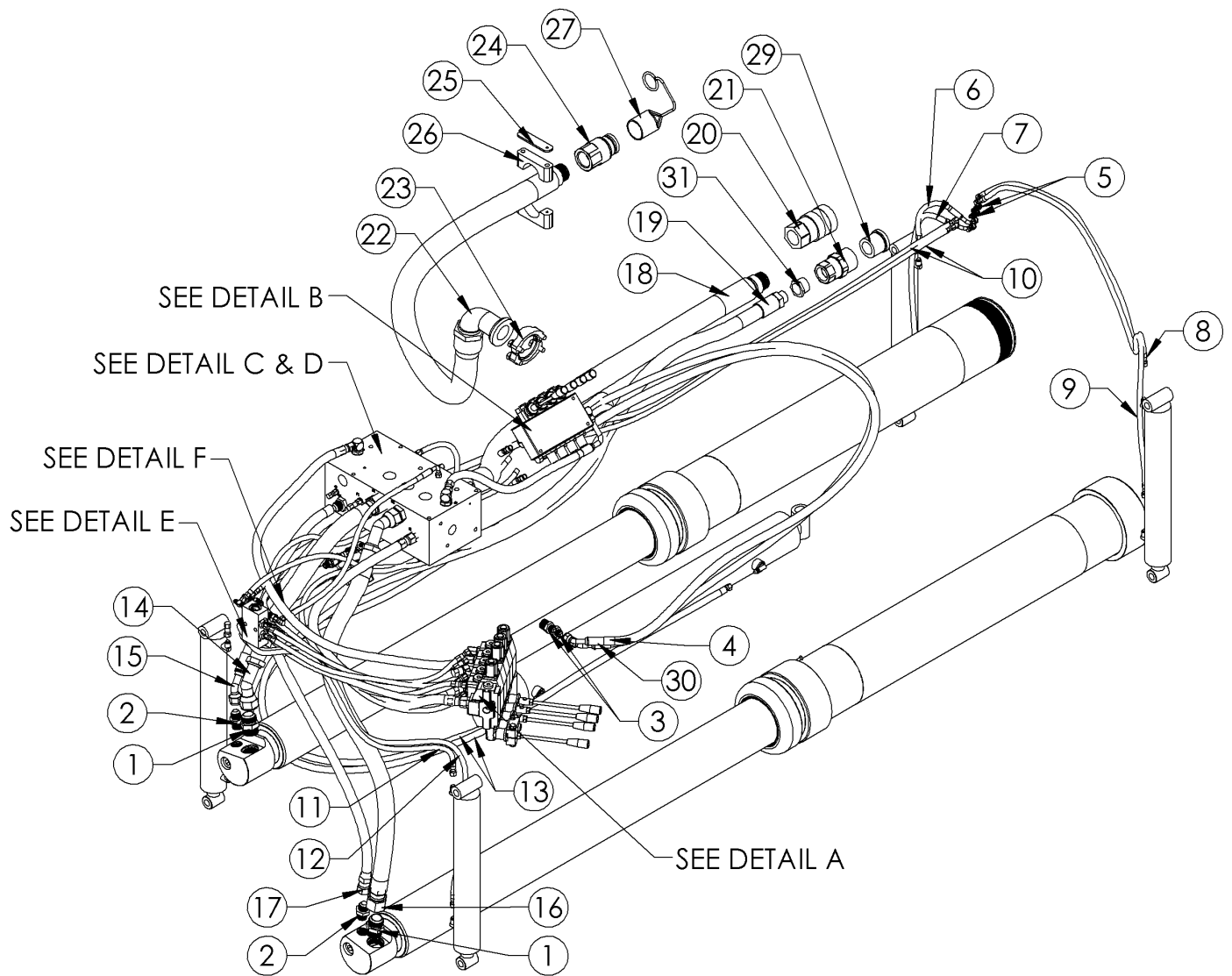
**HYDRAULIC ASSEMBLY  
FOR UNITS PRIOR TO S/N 10017**

| ITEM NO. | PART NO.     | DESCRIPTION                    | QTY. | COMMENTS       |
|----------|--------------|--------------------------------|------|----------------|
| 1        | 296274-981   | CYLINDER, 600                  | 2    |                |
| 2        | 296274-976   | VALVE, DUAL P.O. CHECK         | 2    |                |
| 3        | 296274-977   | VALVE, MANIFOLD - HB125        | 1    |                |
| 4        | 296274-978   | VALVE, 4 SPOOL STABILIZER      | 1    |                |
| 5        | 296274-979   | VALVE, 5 SPOOL CONTROL - HB125 | 1    |                |
| 6        | 296274-980   | CYLINDER 4 x 36                | 1    |                |
| 7        | 229229-309   | PRESSURE GAUGE, 3000 PSI       | 1    |                |
| 8        | 296271-877   | PRESSURE GAUGE, 5000 PSI       | 1    |                |
| 9        | 296278-445   | LEVER 10M x 200mm              | 4    |                |
| 10       | 296278-446   | LEVER M8 x 120mm               | 4    |                |
| 11       | 296278-447   | SPACER - TOP LIMITER           | 1    |                |
| 12       | 296278-448   | SPACER - BOTTOM LIMITER        | 1    |                |
| 13       | 296278-449   | STEP CONTROL YOKE              | 1    |                |
| 14       | 296276-295   | CYLINDER - 2.5 x 16"           | 4    |                |
| 15       | Not Serviced | HOSE & ADAPTER KIT, HB125 MAIN | 1    | SEE PAGE 40-17 |
| 16       | 296276-329   | SEQUENCE VALVE                 | 1    |                |
| 17       | 296279-112   | BOLT, HX HD, 1/4-20 x 3.75"    | 2    |                |
| 18       | 296287-163   | PLATE, SPACER                  | 1    |                |
| 19       | 296278-290   | BOLT, FLANGE 1/2-13 x 1" GR8   | 2    |                |

## HOSE &amp; ADAPTER KIT - HB125 MAIN (PRIOR TO S/N 10017)

(1 OF 3)

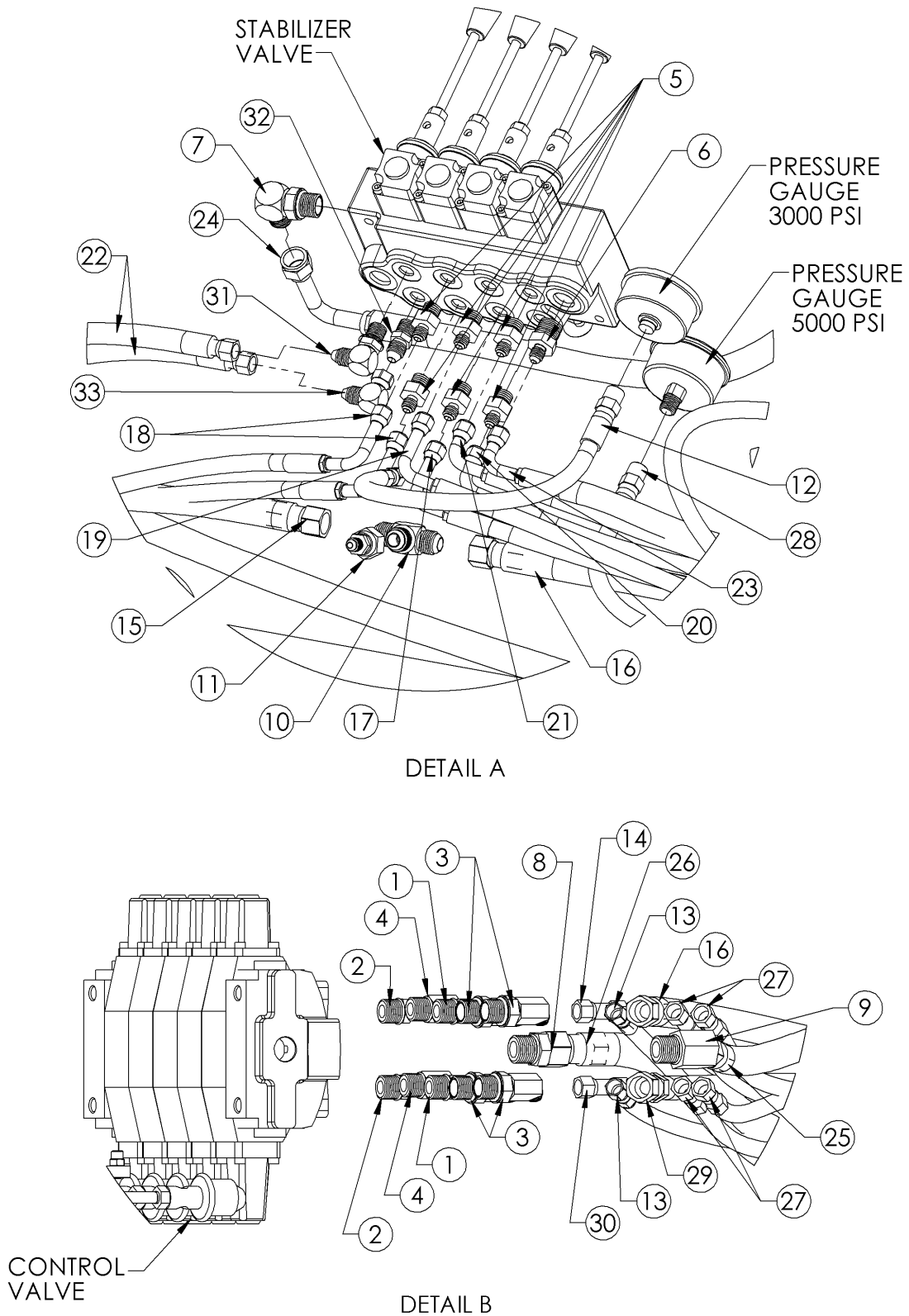
FIGURE 40-5



**HOSE& ADAPTER KIT, HB125 MAIN (1 OF 3)  
FOR UNITS PRIOR TO S/N 10017**

| ITEM NO. | PART NO.   | DESCRIPTION               | QTY. | COMMENTS |
|----------|------------|---------------------------|------|----------|
| 1        | 296271-816 | ADAPTER 20MJ x 20MB       | 4    |          |
| 2        | 290846-001 | ADAPTER 12MJ x 12MB       | 4    |          |
| 3        | 290957-001 | ADAPTER, 8MJ x 12MB       | 2    |          |
| 4        | 296274-993 | HOSE, 8FJ-8FJ45 x 96      | 1    |          |
| 5        | 296278-383 | TEE, 4MJ x 4MJ x 4MJ      | 2    |          |
| 6        | 296274-997 | HOSE, 6FJ-4FJ90 x 14      | 1    |          |
| 7        | 296274-998 | HOSE, 6FJ-4FJ x 31        | 1    |          |
| 8        | 296274-994 | HOSE, 6FJ-4FJ x 50        | 1    |          |
| 9        | 296274-995 | HOSE, 6FJ-4FJ x 63        | 1    |          |
| 10       | 296276-256 | HOSE, 4FJ-4FJ90L x 72     | 2    |          |
| 11       | 296276-252 | HOSE, 6FJ-4FJ90 x 92      | 1    |          |
| 12       | 296276-253 | HOSE, 6FJ-4FJ90 x 111     | 1    |          |
| 13       | 296278-485 | OUTRIGGER HOSE ASSEMBLY   | 1    |          |
| 14       | 296276-265 | HOSE, 20FJ-20FJ45 x 29    | 1    |          |
| 15       | 296276-266 | HOSE, 12FJ-12FJ45 x 29    | 1    |          |
| 16       | 296276-267 | HOSE, 20FJ-20FJ45 x 55    | 1    |          |
| 17       | 296276-268 | HOSE, 12FJ-12FJ x 59      | 1    |          |
| 18       | 296260-885 | HOSE, TANK PORT 57.5      | 1    |          |
| 19       | 296274-996 | HOSE, 16MP-16FJ45 x 67    | 1    |          |
| 20       | 296260-887 | COUPLER, FEMALE 1.5       | 1    |          |
| 21       | 296287-215 | COUPLER, FEMALE 1-1/4     | 1    |          |
| 22       | 296260-884 | HOSE, FILTER RETURN       | 1    |          |
| 23       | 296276-404 | FLANGE KIT, 2.5" CODE 61  | 1    |          |
| 24       | 296260-886 | NIPPLE, MALE 1.5          | 1    |          |
| 25       | 296276-411 | PLATE, COVER 2.5          | 1    |          |
| 26       | 296276-410 | SUPPORT, HOSE 2.5         | 1    |          |
| 27       | 296260-889 | CAP, MALE COUPLER 1.5     | 1    |          |
| 28       | 296260-888 | CAP, FEMALE COUPLER 1.5   | 1    |          |
| 29       | 296287-217 | CAP, FEMALE               | 1    |          |
| 30       | 296287-162 | HOSE, VALVE TO MOTOR      | 1    |          |
| 31       | 296287-216 | REDUCER, 20 NPT x 16 FNPT | 1    |          |

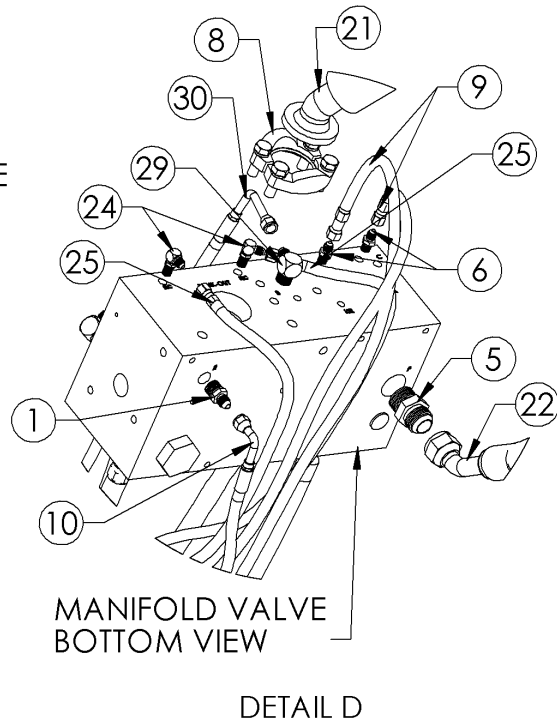
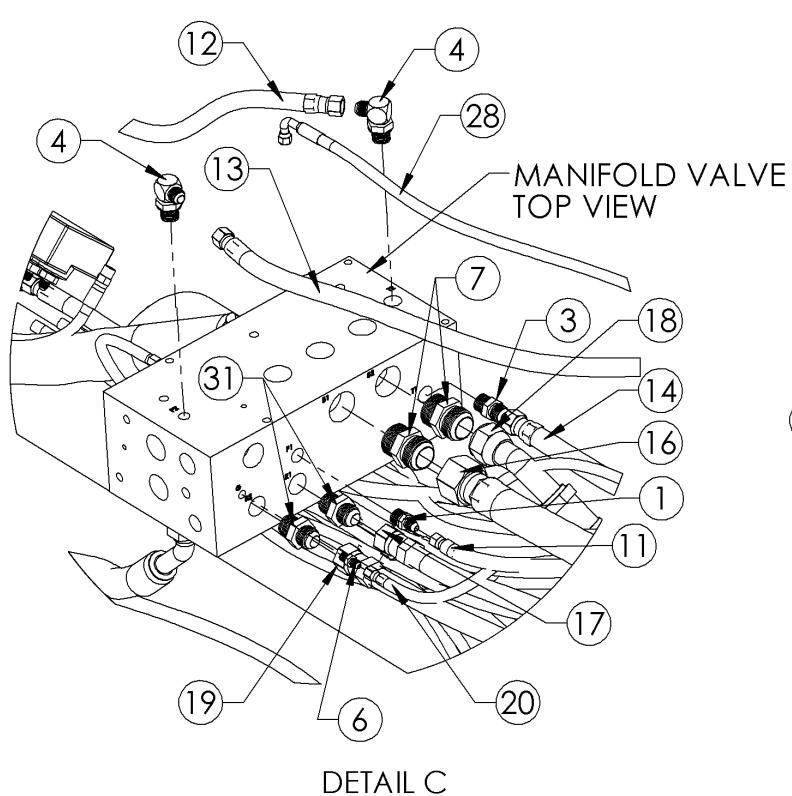
**HOSE & ADAPTER KIT - HB125 MAIN (2 OF 3)**  
**FOR UNITS PRIOR TO S/N 10017**  
**FIGURE 40-5**



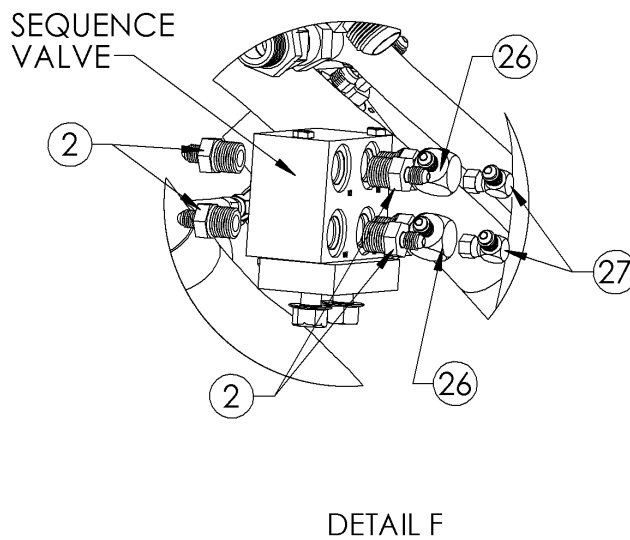
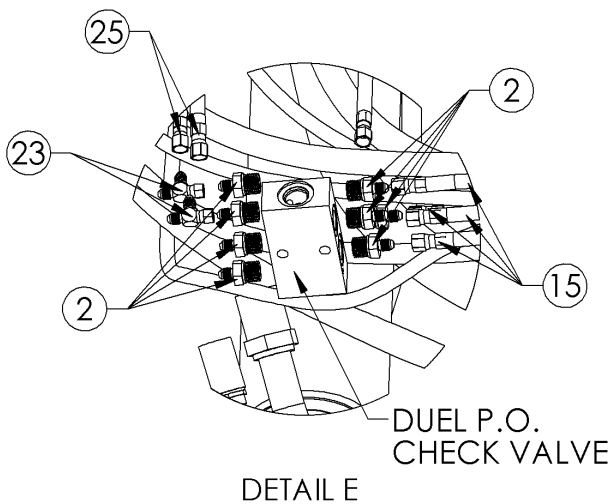
**HOSE & ADAPTER KIT - HB125 MAIN (2 OF 3)**  
**FOR UNITS PRIOR TO S/N 10017**

| ITEM NO. | PART NO.   | DESCRIPTION             | QTY. | COMMENTS |
|----------|------------|-------------------------|------|----------|
| 1        | 296274-988 | ELBOW 8MJ x 8MB 45°     | 2    |          |
| 2        | 296274-884 | ADAPTER, 6MJ x 8MB      | 4    |          |
| 3        | 296274-987 | ELBOW, 6MJ x 8MB 45°    | 4    |          |
| 4        | 296274-986 | ELBOW, 4MJ x 8MB 45°    | 2    |          |
| 5        | 296274-877 | ADAPTER, 4MJ x 8MB 45°  | 6    |          |
| 6        | 60721-001  | ADAPTER, 4MJ x 8MB      | 13   |          |
| 7        | 53837-001  | ELBOW, 8MJ x 8MB 90°    | 1    |          |
| 8        | 296274-874 | ADAPTER, 10MJ x 10MB    | 2    |          |
| 9        | 296274-985 | ELBOW, 8MJ x 10MB 45°   | 1    |          |
| 10       | 296279-108 | TEE, 8MJ x 8MJ x 8MJ    | 1    |          |
| 11       | 86106-001  | REDUCER, 4MJ x 8FJ      | 1    |          |
| 12       | 296273-079 | HOSE, 4FJ - 4FP x 14    | 1    |          |
| 13       | 296274-990 | HOSE, 4FJ - 4FJ x 78    | 2    |          |
| 14       | 296274-992 | HOSE, 6FJ-6FJ90 x 57    | 1    |          |
| 15       | 296274-993 | HOSE, 8FJ-8FJ45 x 96    | 1    |          |
| 16       | 296274-999 | HOSE, 8FJ-8FJ x 78      | 1    |          |
| 17       | 296276-257 | HOSE, 6FJ-4FJ90 x 51    | 1    |          |
| 18       | 296276-256 | HOSE, 4FJ-4FJ90L x 72   | 2    |          |
| 19       | 296276-258 | HOSE, 6FJ-4FJ90L x 66   | 1    |          |
| 20       | 296276-252 | HOSE, 6FJ-4FJ90 x 92    | 1    |          |
| 21       | 296276-253 | HOSE, 6FJ-4FJ90 x 111   | 1    |          |
| 22       | 296278-485 | OUTRIGGER HOSE ASSEMBLY | 1    |          |
| 23       | 296276-259 | HOSE, 6FJ-4FJ90 x 38    | 1    |          |
| 24       | 296276-260 | HOSE, 8FJ-8FJ90L x 33   | 1    |          |
| 25       | 296276-262 | HOSE, 8FJ-8FJ x 62      | 1    |          |
| 26       | 296276-263 | HOSE, 10FJ-10FJ x 49    | 1    |          |
| 27       | 296276-264 | HOSE, 6FJ-4FJ x 28      | 4    |          |
| 28       | 296276-270 | HOSE, 4FJ-4FP x 40      | 1    |          |
| 29       | 296287-162 | HOSE, VALVE TO MOTOR    | 1    |          |
| 30       | 296274-991 | HOSE, 6FJ-6FJ90L x 62   | 1    |          |
| 31       | 296271-999 | ELBOW, 6MJ x 6MB 90°    | 1    |          |
| 32       | 296274-884 | ADAPTER, 6MJ x 6MB      | 1    |          |
| 33       | 296279-113 | ELBOW, 6MJ x 6FJ 90°    | 1    |          |

**HOSE & ADAPTER KIT - HB125 MAIN (3 OF 3)**  
**FOR UNITS PRIOR TO S/N 10017**  
**FIGURE 40-5**

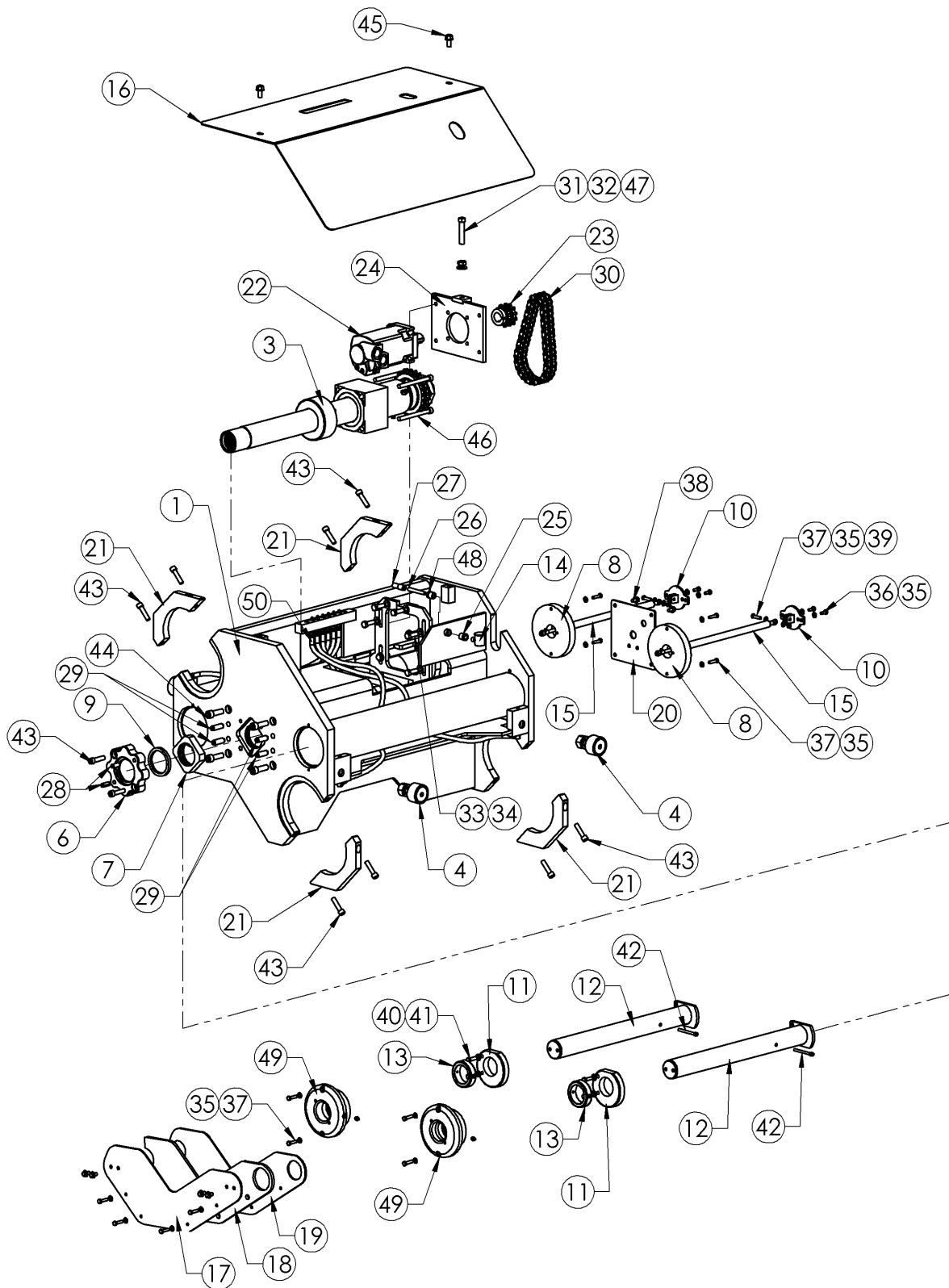


NOTE:  
SOME HOSES AND FITTINGS HAVE  
BEEN REMOVED FOR CLARITY.



**HOSE& ADAPTER KIT - HB125 MAIN (3 OF 3)**  
**FOR UNITS PRIOR TO S/N 10017**

| ITEM NO. | PART NO.   | DESCRIPTION            | QTY. | COMMENTS |
|----------|------------|------------------------|------|----------|
| 1        | 296274-884 | ADAPTER, 6MJ x 8MB     | 4    |          |
| 2        | 60721-001  | ADAPTER, 4MJ x 8MB     | 13   |          |
| 3        | 296274-874 | ADAPTER, 10MJ x 10MB   | 2    |          |
| 4        | 296273-092 | ELBOW, 8MJ x 10MB 90°  | 2    |          |
| 5        | 296263-913 | ADAPTER 16MJ x 16MB    | 1    |          |
| 6        | 60908-001  | ADAPTER, 4MJ x 4MB     | 3    |          |
| 7        | 296271-816 | ADAPTER 20MJ x 20MB    | 4    |          |
| 8        | 296276-403 | FLANGE KIT, 2" CODE 61 | 1    |          |
| 9        | 296274-990 | HOSE, 4FJ - 4FJ x 78   | 2    |          |
| 10       | 296274-992 | HOSE, 6FJ-6FJ90 x 57   | 1    |          |
| 11       | 296276-259 | HOSE, 6FJ-4FJ90 x 38   | 1    |          |
| 12       | 296276-260 | HOSE, 8FJ-8FJ90L x 33  | 1    |          |
| 13       | 296276-262 | HOSE, 8FJ-8FJ x 62     | 1    |          |
| 14       | 296276-263 | HOSE, 10FJ-10FJ x 49   | 1    |          |
| 15       | 296276-264 | HOSE, 6FJ-4FJ x 28     | 4    |          |
| 16       | 296276-265 | HOSE, 20FJ-20FJ45 x 29 | 1    |          |
| 17       | 296276-266 | HOSE, 12FJ-12FJ45 x 29 | 1    |          |
| 18       | 296276-267 | HOSE, 20FJ-20FJ45 x 55 | 1    |          |
| 19       | 296276-268 | HOSE, 12FJ-12FJ x 59   | 1    |          |
| 20       | 296276-270 | HOSE, 4FJ-4FP x 40     | 1    |          |
| 21       | 296260-885 | HOSE, TANK PORT 57.5   | 1    |          |
| 22       | 296274-996 | HOSE, 16MP-16FJ45 x 67 | 1    |          |
| 23       | 296279-171 | TEE 4MJ x 4MJ x 4FJX   | 2    |          |
| 24       | 59423-001  | ELBOW, 4MJ x 4MB 90°   | 2    |          |
| 25       | 296278-293 | HOSE 4FJ- 4FJ x 41.5   | 2    |          |
| 26       | 296287-164 | ELBOW, 4MJ x 8MB 90°   | 2    |          |
| 27       | 283709-001 | ELBOW, 4MJ-4FJ 90°     | 2    |          |
| 28       | 296276-271 | HOSE, 4FJ-4FJ90 x 32   | 2    |          |
| 29       | 296279-109 | ELBOW, 6MJ x 8MB 90°   | 1    |          |
| 30       | 296274-991 | HOSE, 6FJ-6FJ90L x 62  | 1    |          |
| 31       | 290846-001 | ADAPTER 12MJ x 12MB    | 4    |          |

**SPINDLE ASSEMBLY  
FIGURE 40-6**

## SECTION 40

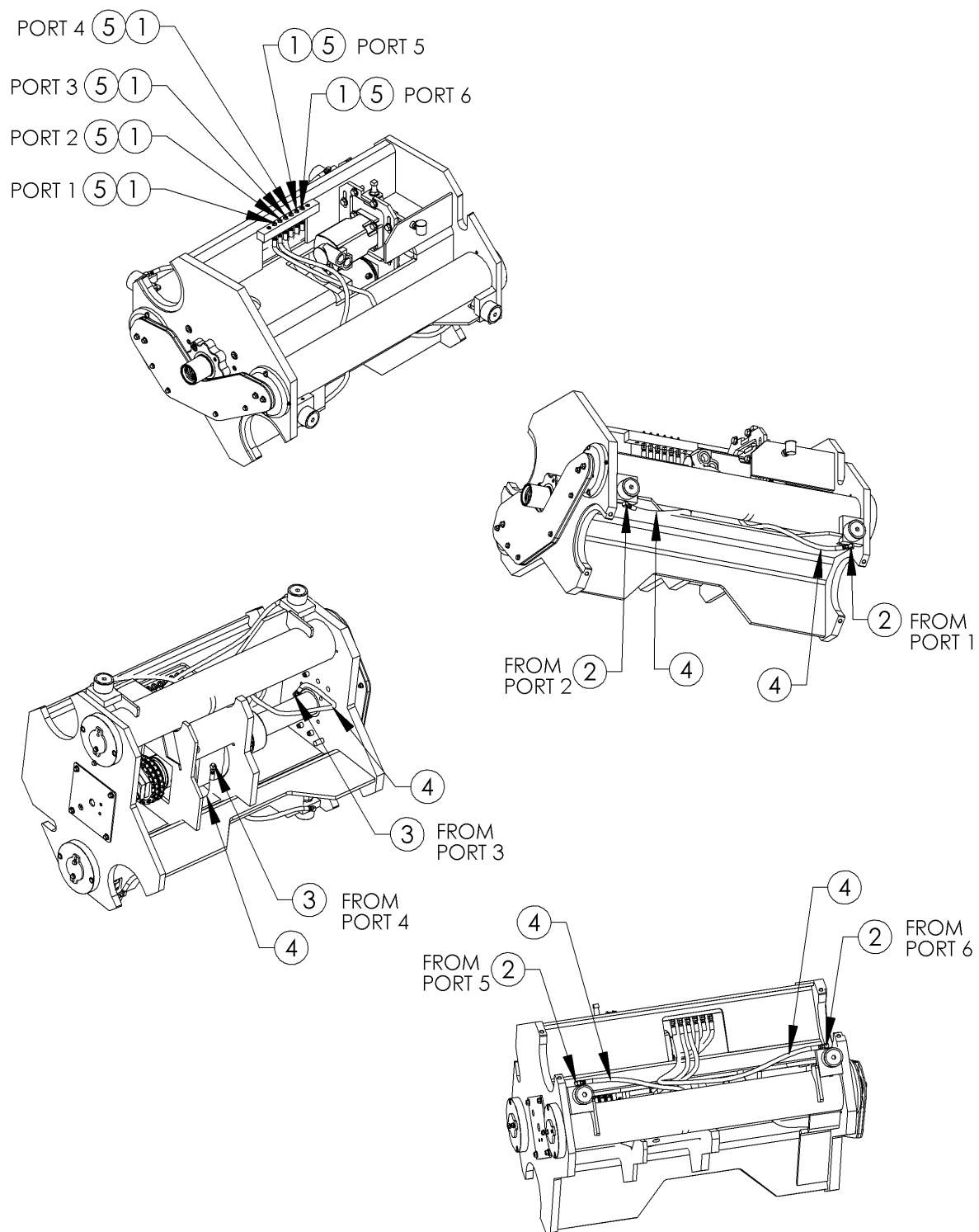
## SPINDLE ASSEMBLY

HB125 HYDROBURST

| ITEM NO. | PART NO.     | DESCRIPTION                    | QTY. | COMMENTS         |
|----------|--------------|--------------------------------|------|------------------|
| 1        | 296276-494   | SPINDLE FRAME                  | 1    |                  |
| 2        | 296276-496   | SPINDLE LOAD WEDGE             | 1    |                  |
| 3        | 296278-254   | SPINDLE SHAFT ASSY             | 1    | SEE PAGE 40-27   |
| 4        | 296278-263   | ROLLER ASSY                    | 4    |                  |
| 5        | 296278-253   | SPINDLE NUT PLATE              | 1    |                  |
| 6        | 296278-266   | SPINDLE PLAIN BEARING HOUSING  | 1    |                  |
| 7        | 296278-367   | SPINDLE BEARING, FRONT         | 1    |                  |
| 8        | 296278-268   | REAR END PLUG                  | 2    |                  |
| 9        | 296278-295   | SEAL, BEARING                  | 2    |                  |
| 10       | 296278-269   | GAS SPRING LUG                 | 2    |                  |
| 11       | 296278-276   | ECCENTRIC SLIDING BEARING      | 2    |                  |
| 12       | 296278-275   | ROD HOLDER ARM                 | 2    |                  |
| 13       | 296278-277   | STOP COLLAR                    | 2    |                  |
| 14       | 296278-273   | OIL CUP, SPINDLE CHAIN         | 1    |                  |
| 15       | 296278-270   | GAS SPRING ASSY                | 2    |                  |
|          | 296278-272   | EYELET END                     | 2    |                  |
|          | 296278-271   | GAS SPRING                     | 1    |                  |
| 16       | 296278-278   | TOP COVER, SPINDLE             | 1    |                  |
| 17       | 296278-280   | SADDLE OUTER                   | 1    |                  |
| 18       | 296278-281   | SADDLE CENTER                  | 1    |                  |
| 19       | 296278-282   | SADDLE INNER PLATE             | 1    |                  |
| 20       | 296278-283   | SWIVEL COVER, SPINDLE          | 1    |                  |
| 21       | 296276-495   | CLAMP CYLINDER                 | 4    |                  |
| 22       | 296271-866   | MOTOR HYDRAULIC 15.0 CI        | 1    |                  |
| 23       | 296278-285   | DRIVE SPROCKET                 | 1    |                  |
| 24       | 296273-007   | MOTOR MOUNT, REEL DRIVE        | 1    |                  |
| 25       | 296278-482   | BUSHING 6MP x 4FP              | 1    |                  |
| 26       | 296278-297   | PIPE NIPPLE 1/8NPT x 3         | 1    |                  |
| 27       | 296278-296   | BRUSH, CHAIN OILER             | 1    |                  |
| 28       | 280416-001   | PIN, COILED 1/2" x 1-1/4       | 2    |                  |
| 29       | 280424-001   | PIN, COILED 5/8 x 1.88         | 4    |                  |
| 30       | 296278-286   | DRIVE CHAIN                    | 1    |                  |
| 31       | 296278-294   | SET SCREW SQ HD 5/8-11 x 3     | 1    |                  |
| 32       | 429-001      | NUT, HEX JAM                   | 1    |                  |
| 33       | 75381-014    | BOLT, HX HD 1/2-13 x 1.5" GR 8 | 8    |                  |
| 34       | 296271-785   | WASHER, 1/2" - HARD            | 8    |                  |
| 35       | 296271-964   | WASHER, 5/16" - HARD           | 24   |                  |
| 36       | 235742-001   | BOLT, HHC 5/16-18 x 3/4" GR8   | 4    |                  |
| 37       | 248031-001   | BOLT, HHC 5/16-18 x 1.25 GR 8  | 14   |                  |
| 38       | 296278-288   | BOLT, 3/8-16 x .625" FLANGE    | 8    |                  |
| 39       | 409-001      | NUT, 5/16-18 TOP-LOCK          | 6    |                  |
| 40       | 296271-869   | WASHER, 3/8" - HARD            | 4    |                  |
| 41       | 235736-001   | BOLT HX HD 3/8-16 x 1.25" GR 8 | 4    |                  |
| 42       | 296278-289   | SCREW, 5/16-18 x 3.0 SHC       | 2    |                  |
| 43       | 55419-001    | SCREW, 1/2-13 x 2.0" SHC       | 10   |                  |
| 44       | 79943-020    | BOLT, SHC 5/8-11 x 2           | 4    |                  |
| 45       | 296278-290   | BOLT, FLANGE 1/2-13 x 1" GR8   | 2    |                  |
| 46       | 296278-292   | SCREW, 1/2-13 x 5.5" SHC       | 4    |                  |
| 47       | 615342-001   | WASHER, 5/8" - HARD            | 1    |                  |
| 48       | 296278-484   | BUSHING 6MP x 2FP              | 1    |                  |
| 49       | 296287-213   | FRONT END PLUG                 | 2    |                  |
| 50       | Not Serviced | HOSE & ADAPTER KIT             | 1    | (SEE PAGE 40-25) |

## HOSE & ADAPTER KIT - SPINDLE

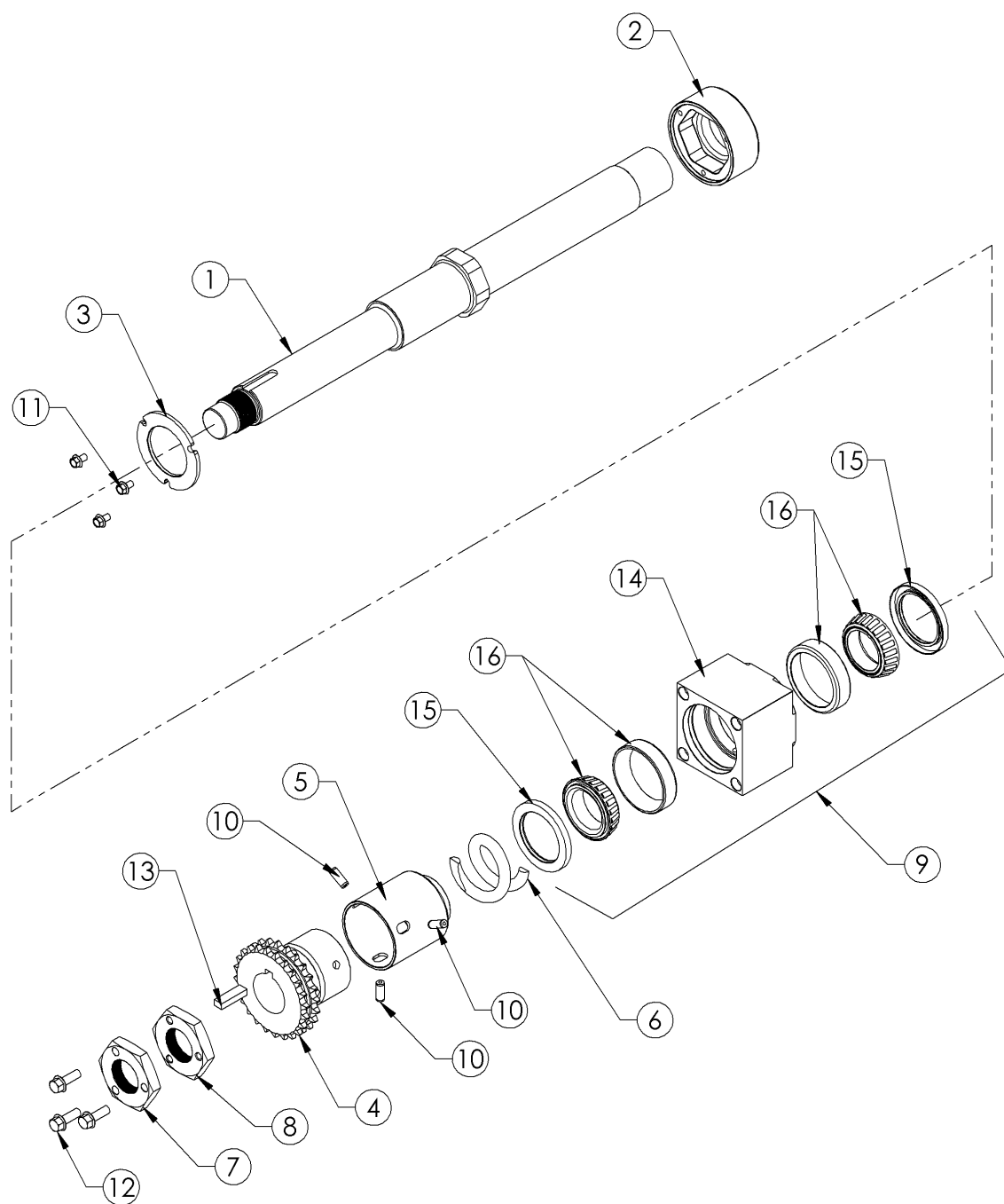
### FIGURE 40-7



**HOSE & ADAPTER KIT - SPINDLE**

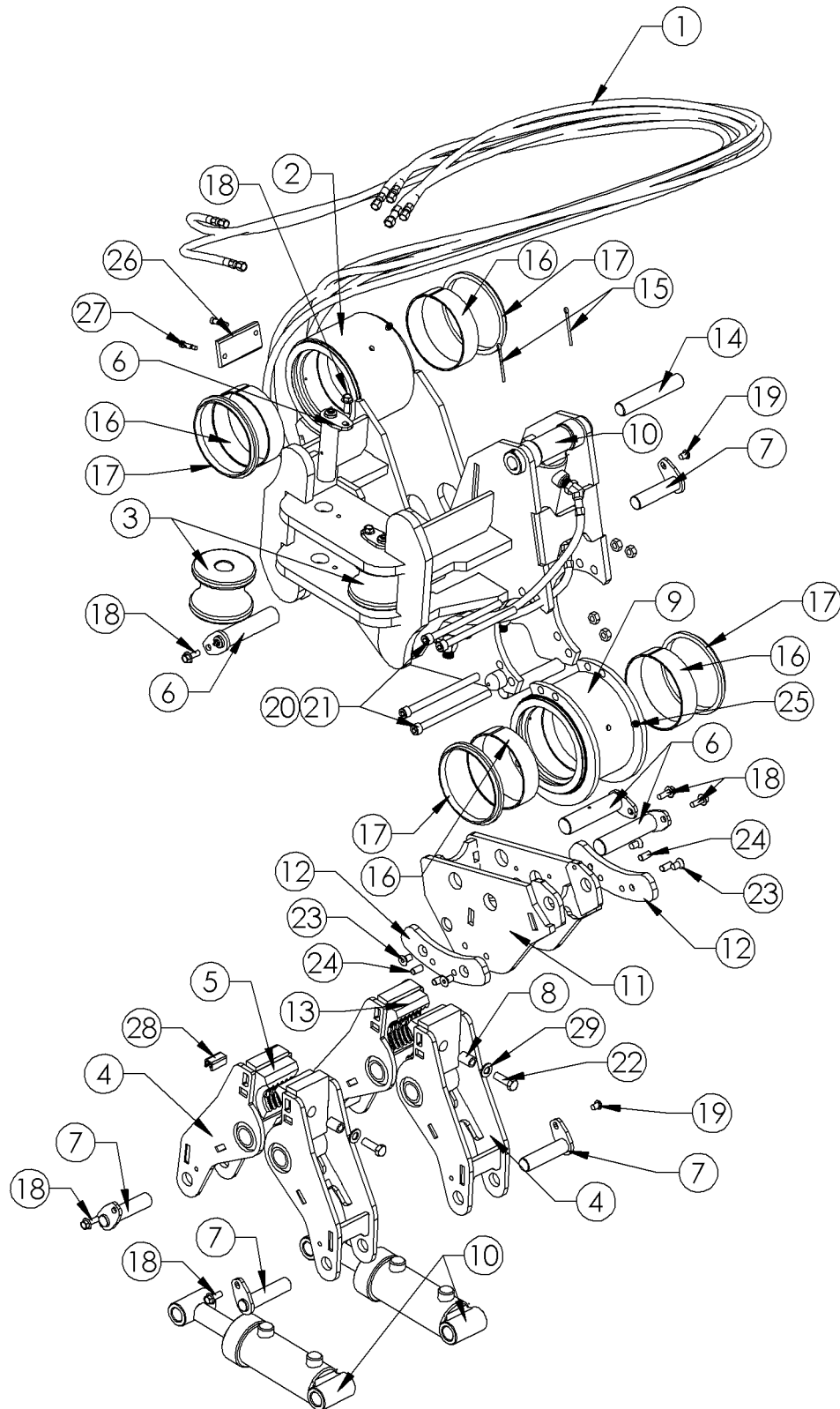
| ITEM NO. | PART NO.   | DESCRIPTION               | QTY. | COMMENTS |
|----------|------------|---------------------------|------|----------|
| 1        | 586-001    | ZERK, GREASE 1/4 NPT      | 6    |          |
| 2        | 251958-041 | ELBOW, 4MJ x 2MP 90°      | 4    |          |
| 3        | 296279-111 | ELBOW, 4MJ x 4MP 90°      | 2    |          |
| 4        | 296278-293 | HOSE, 4FJX x 4FJX x 41.5" | 6    |          |
| 5        | 296279-106 | BULKHEAD 4MJ x 4MB        | 6    |          |

# SPINDLE SHAFT ASSEMBLY FIGURE 40-8



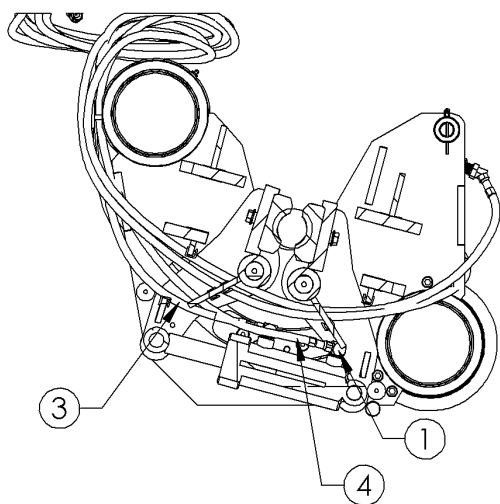
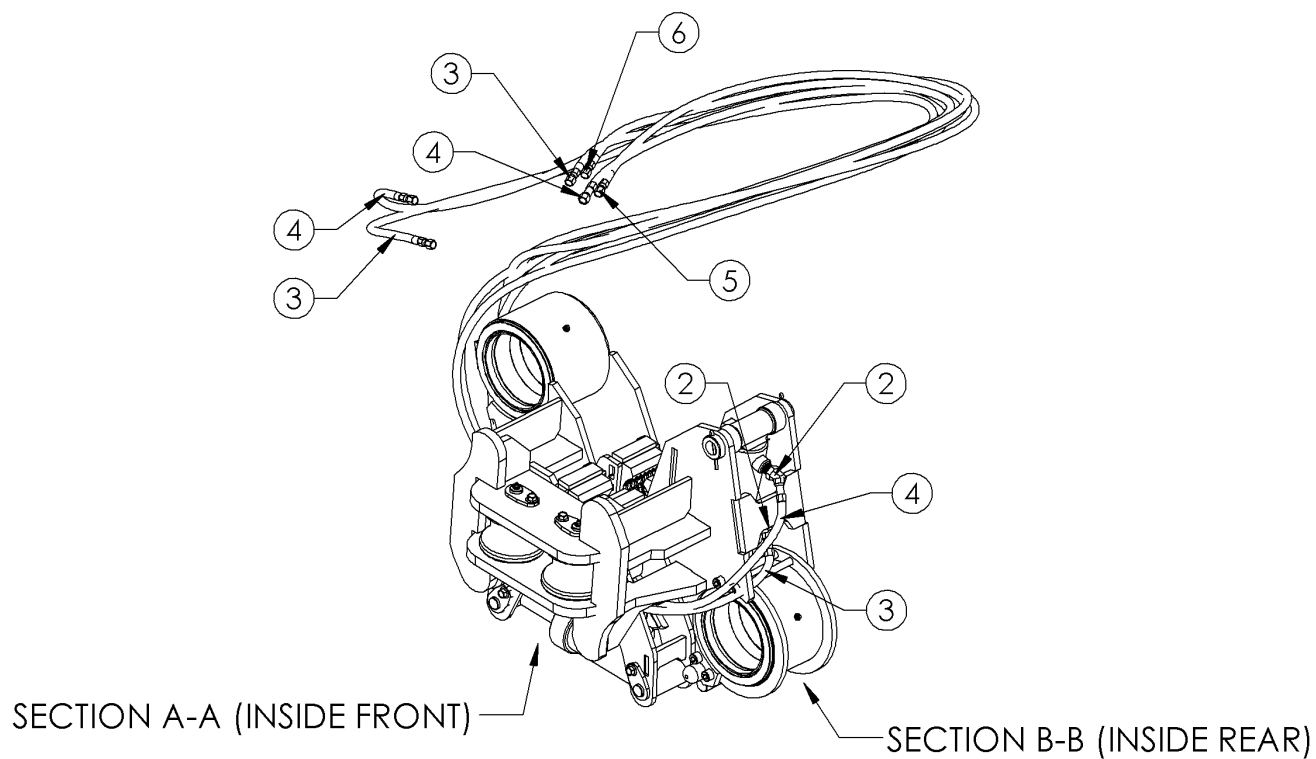
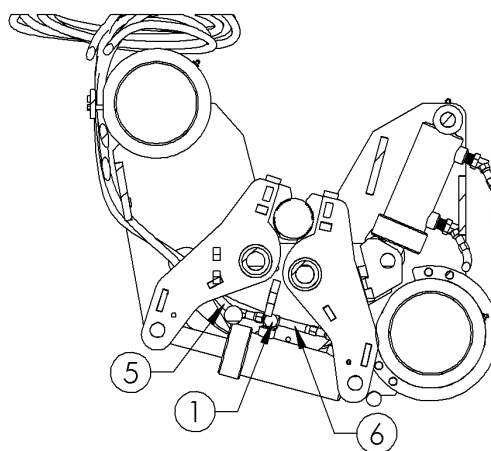
**SPINDLE SHAFT ASSEMBLY**

| ITEM NO. | PART NO.   | DESCRIPTION                     | QTY. | COMMENTS             |
|----------|------------|---------------------------------|------|----------------------|
| 1        | 296278-255 | SHAFT SPINDLE                   | 1    |                      |
| 2        | 296278-256 | SPINDLE SHAFT FLANGE            | 1    |                      |
| 3        | 296278-257 | SPINDLE SHAFT KEEPER            | 1    |                      |
| 4        | 296278-258 | SPROCKET, DRIVEN                | 1    |                      |
| 5        | 296278-259 | SPINDLE SPRING CANISTER         | 1    |                      |
| 6        | 296278-260 | SPINDLE SPRING                  | 1    |                      |
| 7        | 296278-261 | SPINDLE NUT                     | 1    |                      |
| 8        | 296278-262 | SPINDLE LOCKNUT                 | 1    |                      |
| 9        | 296276-497 | SPINDLE THRUST BEARING BLOCK    | 1    | INCLUDES ITEMS 14-16 |
| 10       | 280416-001 | PIN, COILED 1/2" x 1-1/4"       | 3    |                      |
| 11       | 296278-288 | BOLT, 3/8-16 x .625" FLANGE     | 3    |                      |
| 12       | 296278-291 | BOLT, FLANGE 1/2-13 x 1.5" GR 8 | 3    |                      |
| 13       | 296278-483 | KEY WAY 5/8 x 7/16              | 1    |                      |
| 14       | 296276-498 | BEARING BLOCK                   | 1    |                      |
| 15       | 296278-252 | SEAL, BEARING                   | 2    |                      |
| 16       | 296276-499 | BEARING, SPINDLE THRUST         | 2    |                      |

**WISE ASSEMBLY**  
**FIGURE 40-9**

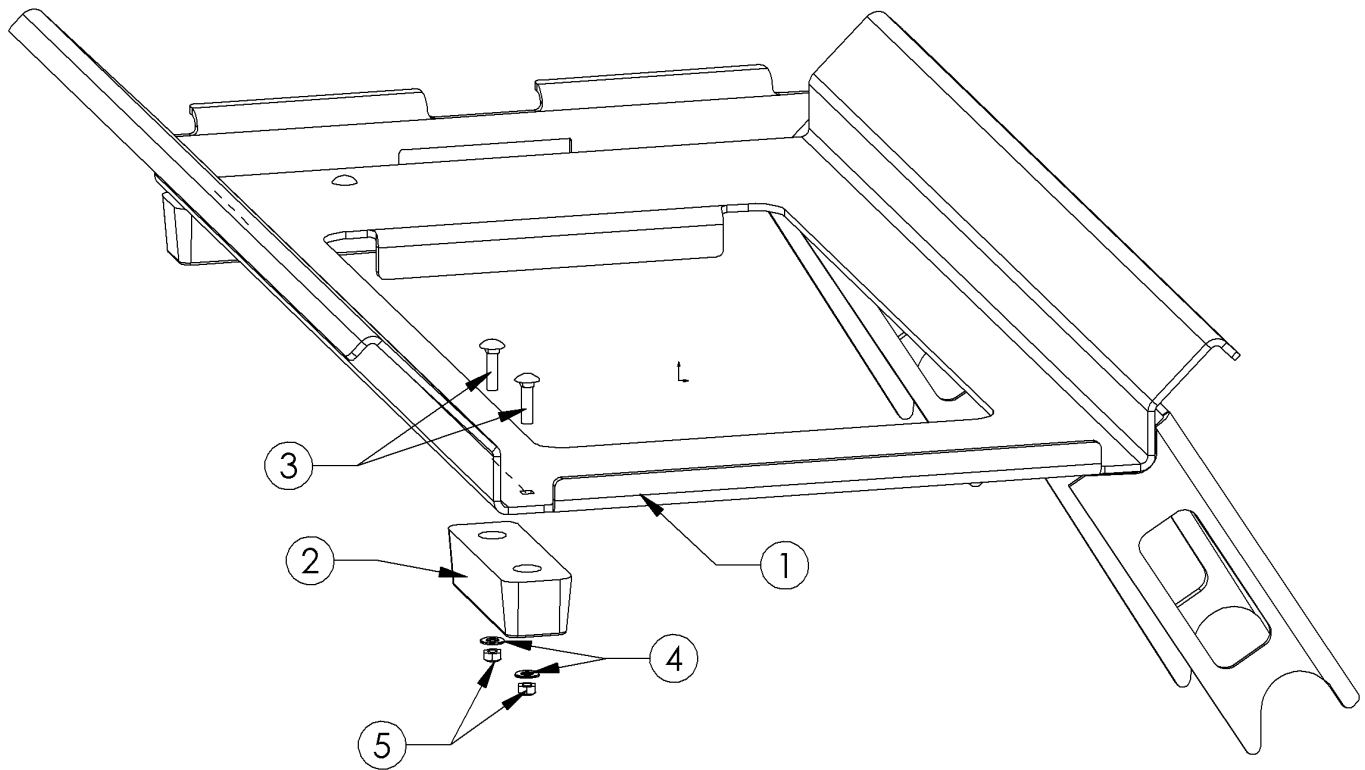
# VICE ASSEMBLY

| ITEM NO. | PART NO.     | DESCRIPTION                        | QTY. | COMMENTS       |
|----------|--------------|------------------------------------|------|----------------|
| 1        | NOT SERVICED | HOSE & ADAPTER KIT - VISE          | 1    | SEE PAGE 40-31 |
| 2        | 296279-023   | VICE FRAME                         | 1    |                |
| 3        | 296279-024   | ROD GUIDE ROLLER                   | 2    |                |
| 4        | 296279-082   | JAW ARM                            | 4    |                |
| 5        | 296279-025   | JAW, FRONT                         | 2    |                |
| 6        | 296276-298   | PIN - 1.25                         | 6    |                |
| 7        | 296279-027   | PIN - 1.00                         | 5    |                |
| 8        | 296279-026   | JAW ARM, BUSHING                   | 4    |                |
| 9        | 296279-028   | BUSHING                            | 1    |                |
| 10       | 296276-328   | CYLINDER, 2-1/2 x 3-1/2            | 3    |                |
| 11       | 296279-029   | VICE PIVOT FRAME                   | 1    |                |
| 12       | 296279-031   | GUIDE PLATE                        | 2    |                |
| 13       | 296279-030   | JAW, REAR                          | 2    |                |
| 14       | 296279-032   | PIN, 1.00 X 6.0                    | 1    |                |
| 15       | 510338-825   | COTTER PIN, 3/16 x 2"              | 2    |                |
| 16       | 296276-302   | WEAR RING, 600                     | 4    |                |
| 17       | 296279-084   | ROD WIPER, 600                     | 4    |                |
| 18       | 296276-302   | BOLT, 3/8-16 x .5" FLANGE          | 8    |                |
| 19       | 296279-084   | BOLT, BT HD SC 3/8-16 x 5/8        | 3    |                |
| 20       | 423-001      | NUT, 1/2-13 TOP-LOCK               | 4    |                |
| 21       | 296279-033   | BOLT, SC HD 1/2-13 x 7"            | 4    |                |
| 22       | 75381-014    | BOLT, HX HD 1/2-13 x 1.5" GR 8     | 4    |                |
| 23       | 241176-001   | SCREW, 7/16-18 x 1" FHCS           | 4    |                |
| 24       | 296279-083   | DOWEL PIN, 7/16 x 7/8              | 4    |                |
| 25       | 293926-001   | GREASE FITTING, STRAIGHT 1/8-27NPT | 2    |                |
| 26       | 296287-168   | PLATE, CLAMP                       | 1    |                |
| 27       | 296287-169   | BOLT, SHOULDER 5/16 x 1            | 2    |                |
| 28       | 913-8369     | PUSH ON EDGE TRIM                  | 9    |                |
| 29       | 296271-785   | WASHER, 1/2" - HARD                | 4    |                |

**HOSE & ADAPTER KIT - VISE**  
**FIGURE 40-10****SECTION A-A**  
**INSIDE FRONT****SECTION B-B**  
**INSIDE REAR**

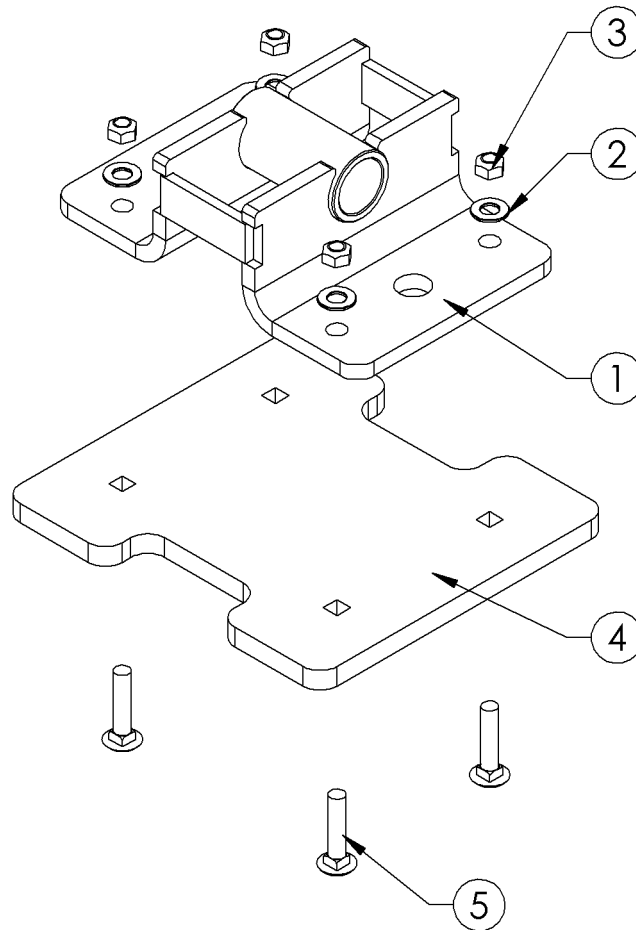
**HOSE & ADAPTER KIT - VISE**

| ITEM NO. | PART NO.   | DESCRIPTION               | QTY. | COMMENTS       |
|----------|------------|---------------------------|------|----------------|
| 1        | 296279-109 | ELBOW, 6MJ x 8MB 90°      | 4    |                |
| 2        | 296274-987 | ELBOW, 6MJ x 8MB 45°      | 2    |                |
|          | 296276-334 | FRONT VISE HOSE ASSEMBLY  | 2    | INCLUDES 3 & 4 |
| 3        | 296279-144 | HOSE, FRONT VISE ROD END  | 2    |                |
| 4        | 296279-143 | HOSE, FRONT VISE BASE END | 2    |                |
|          | 296287-167 | REAR VISE HOSE ASSEMBLY   | 1    | INCLUDES 5 & 6 |
| 5        | 296287-166 | HOSE, REAR VISE BASE END  | 1    |                |
| 6        | 296287-165 | HOSE, REAR VISE ROD END   | 1    |                |

**ROD TRAY ASSEMBLY  
FIGURE 40-11**

| ITEM NO. | PART NO.   | DESCRIPTION                  | QTY. | COMMENTS |
|----------|------------|------------------------------|------|----------|
| 1        | 296279-088 | ROD TRAY                     | 1    |          |
| 2        | 296271-981 | RUBBER BUMPER                | 2    |          |
| 3        | 375-014    | BOLT, CARRIAGE 3/8"-16 x 1.5 | 4    |          |
| 4        | 296271-869 | WASHER, 3/8" - HARD          | 4    |          |
| 5        | 416-001    | NUT, 3/8-16 TOP-LOCK         | 4    |          |

# **STABILIZER FOOT ASSEMBLY** **FIGURE 40-12**



| ITEM NO. | PART NO.   | DESCRIPTION                   | QTY. | COMMENTS |
|----------|------------|-------------------------------|------|----------|
| 1        | 296276-297 | FOOT, STABILIZER              | 1    |          |
| 2        | 296271-869 | WASHER, 3/8" - HARD           | 4    |          |
| 3        | 416-001    | NUT, 3/8-16 TOP-LOCK          | 4    |          |
| 4        | 296279-155 | LEVELING PAD                  | 1    |          |
| 5        | 375016     | BOLT, CARRIAGE, 3/8-16 x 1.75 | 4    |          |

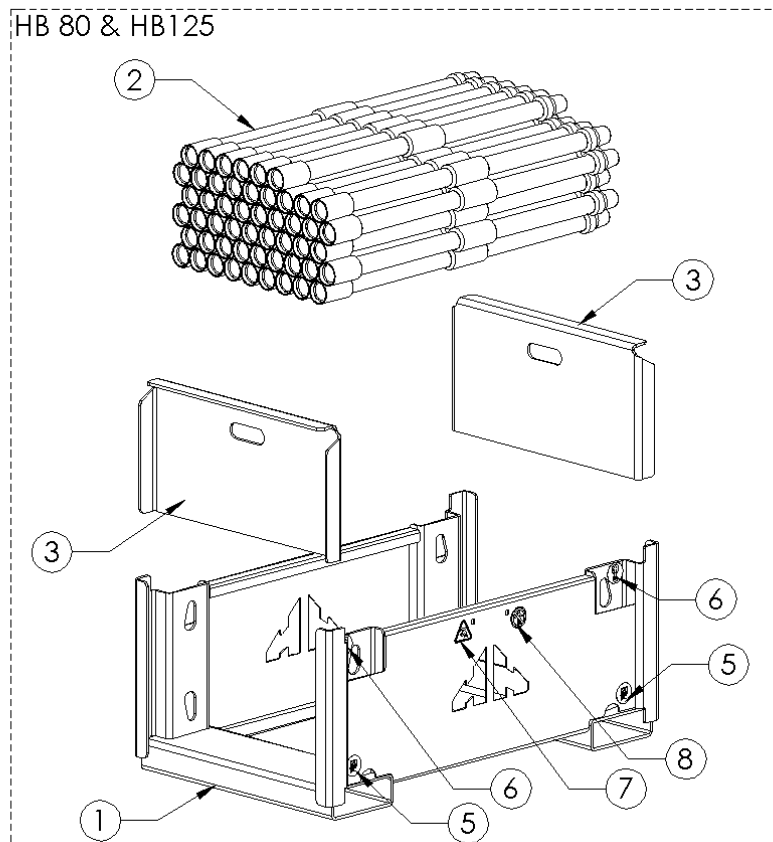
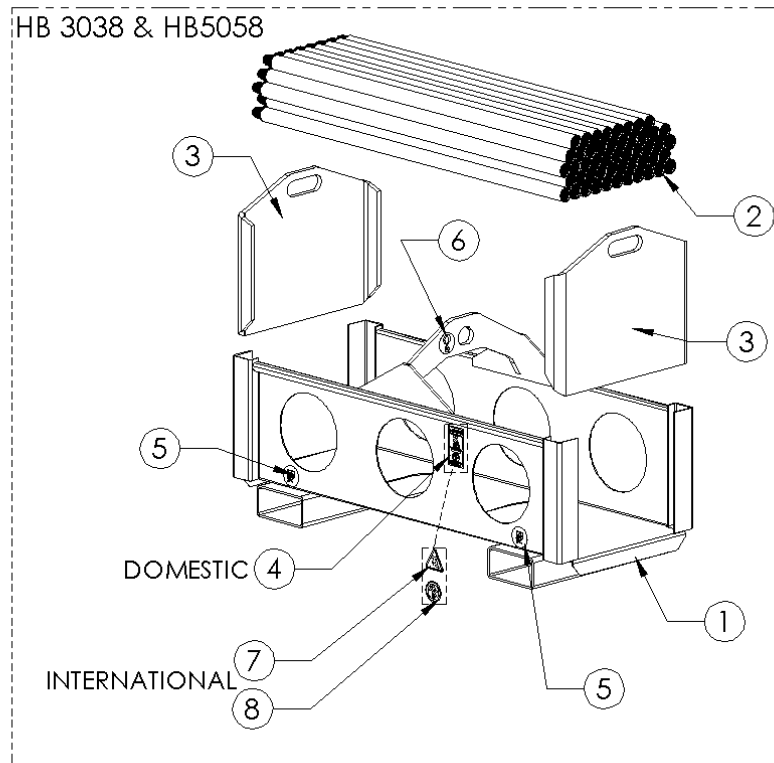
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**HYDROBURST ACCESSORIES**

**SECTION 50**

**ROD AND ROD BOX OPTIONS**  
**FIGURE 50-1**

NOTE:  
ALL DECALS ARE  
USED ON BOTH SIDES  
OF UNIT.

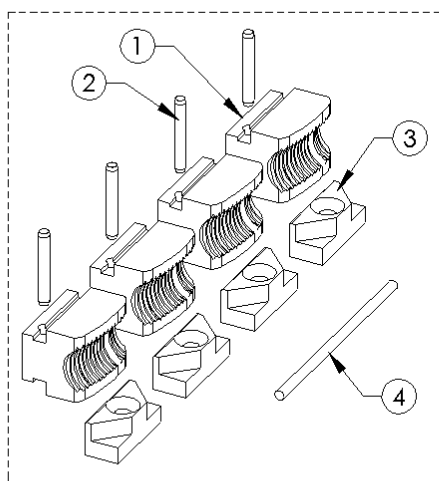


**ROD & ROD BOX OPTIONS**

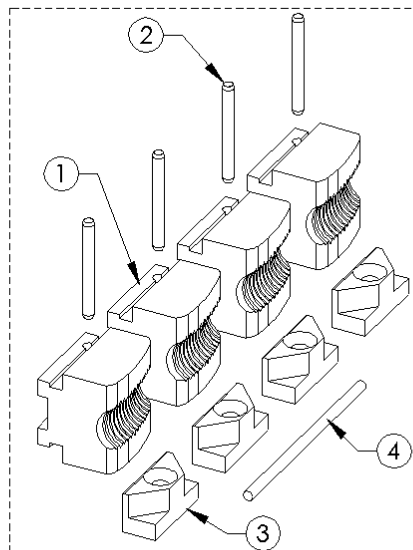
| ITEM NO.                   | PART NO.   | DESCRIPTION                        | QTY | COMMENTS        |
|----------------------------|------------|------------------------------------|-----|-----------------|
| <b>HB3038 &amp; HB5058</b> |            |                                    |     |                 |
| 0                          | 296267-687 | HB3038 & HB5058                    |     |                 |
|                            | 286652-001 | HB3038 Square                      |     |                 |
|                            | 296296-791 | HB3038 Tapered                     |     |                 |
|                            | 286728-001 | HB5058                             |     |                 |
| 1                          | 280701-001 | Rod Box                            | 1   |                 |
| 2                          | 296267-686 | Rod, 35mm x 1.0m                   | 50  | HB3038 & HB5058 |
|                            | 293792-001 | Rod, 1.75" (45mm) x 1.0m - Square  | 50  | HB3038          |
|                            | 296296-789 | Rod, 1.75" (45mm) x 1.0m - Tapered | 50  | HB3038          |
|                            | 293793-001 | Rod, 2.0" (50mm) x 1.0m            | 50  | HB5058          |
| 3                          | 280700-001 | Door                               | 2   |                 |
| 4                          | 296276-469 | Decal, Falling Load (Dom)          | 2   |                 |
| 5                          | 296276-455 | Decal, Tie Down                    | 4   |                 |
| 6                          | 296260-903 | Decal, Lift Point                  | 2   |                 |
| 7                          | 296274-921 | Decal, Body Crush (Int)            | 2   |                 |
| 8                          | 296274-922 | Decal Stay Clear (Int)             | 2   |                 |
| <b>HB80 &amp; HB125</b>    |            |                                    |     |                 |
| 0                          | 296260-850 | HB80                               |     |                 |
|                            | 296273-225 | HB125                              |     |                 |
| 1                          | 296293-539 | Rod Box                            | 1   |                 |
| 2                          | 296260-865 | Rod                                | 51  | HB80            |
|                            | 296293-530 | Rod, Solid                         | 31  | HB125           |
| 3                          | 296260-892 | Door                               | 2   |                 |
| 5                          | 296276-455 | Decal, Tie Down                    | 4   |                 |
| 6                          | 296260-903 | Decal, Lift Point                  | 2   |                 |
| 7                          | 296274-921 | Decal, Body Crush                  | 2   |                 |
| 8                          | 296274-922 | Decal Stay Clear                   | 2   |                 |

## JAW AND JAW INSERT OPTIONS

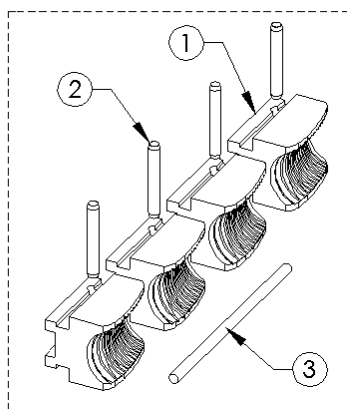
### FIGURE 50-2



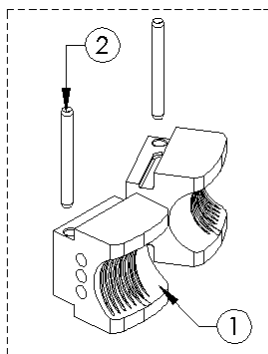
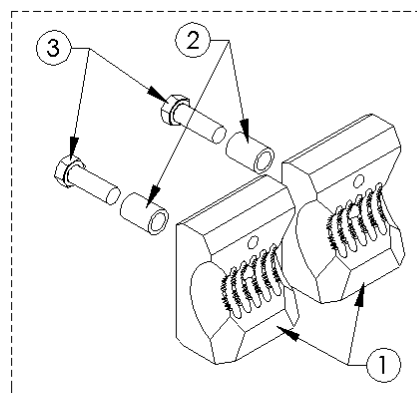
293877-001 FOR HB3038



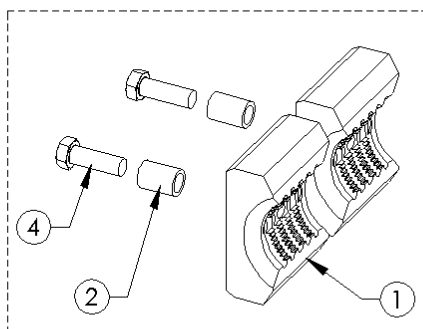
296253-075 FOR HB5058



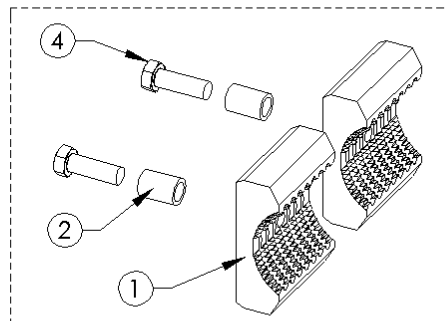
290825-001 FOR HB3038

296260-861 FOR HB5058  
SN 10043 AND HIGHER

296296-821 FOR HB80



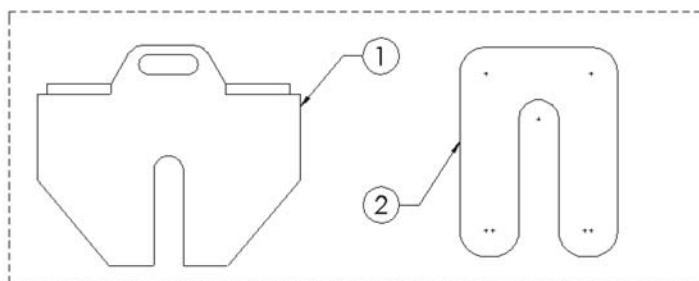
296278-477 FOR HB125, FRONT



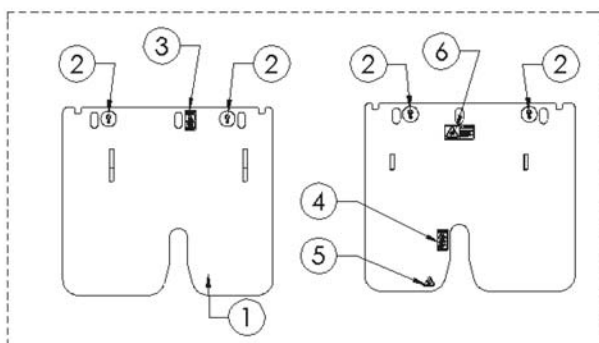
296278-478 FOR HB128, REAR

**JAW AND JAW INSERT OPTIONS**

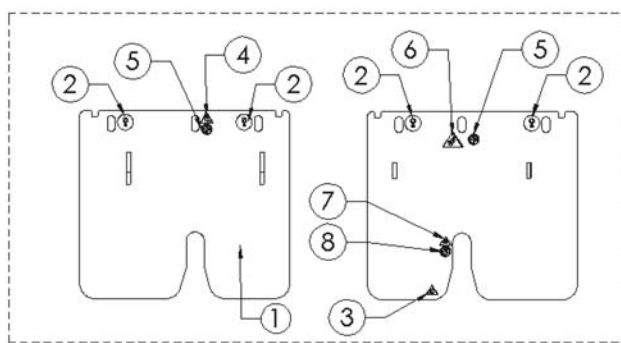
| ITEM NO.                 | PART NO.   | DESCRIPTION                               | QTY | COMMENTS              |
|--------------------------|------------|-------------------------------------------|-----|-----------------------|
| <b>HB3038</b>            |            |                                           |     |                       |
| 0                        | 293877-001 | JAW INSERT KIT - 35mm ROD                 |     | INCLUDES 1-4          |
| 1                        |            | JAW INSERT - 35mm ROD                     | 4   | NOT SOLD INDIVIDUALLY |
| 2                        | 290799-001 | COIL PIN, 5/16 x 2.25                     | 4   |                       |
| 3                        | 296264-886 | ROD GUIDE - 35mm ROD                      | 4   |                       |
| 4                        | 296296-938 | PUNCH, 1/4 TOOTH                          | 1   |                       |
| <b>HB5058</b>            |            |                                           |     |                       |
| 0                        | 296253-075 | JAW INSERT KIT- 35 mm ROD                 |     | INCLUES 1-4           |
| 1                        |            | JAW INSERT - 35mm ROD                     | 4   | NOT SOLD INDIVIDUALLY |
| 2                        | 296260-860 | COIL PIN, 5/16 x 3"                       | 4   |                       |
| 3                        | 296253-076 | ROD GUIDE - 35mm ROD                      | 4   |                       |
| 4                        | 296296-938 | PUNCH, 1/4 TOOTH                          | 1   |                       |
| <b>HB3038</b>            |            |                                           |     |                       |
| 0                        | 290825-001 | JAW INSERT REPLACEMENT KIT                |     | INCLUDES 1-3          |
| 1                        |            | JAW INSERT, PREMIUM                       | 4   | NOT SOLD INDIVIDUALLY |
| 2                        | 290799-001 | COIL PIN, 5/16 x 2.25                     | 4   |                       |
| 3                        | 296296-938 | PUNCH, 1/4 TOOTH                          | 1   |                       |
| <b>HB5058 (SN10043+)</b> |            |                                           |     |                       |
| 0                        | 296260-861 | JAW INSERT REPLACEMENT KIT<br>MOD. T-SLOT |     | INCLUDES 1-3          |
| 1                        |            | JAW INSERT - MOD, T-SLOT                  | 2   | NOT SOLD INDIVIDUALLY |
| 2                        | 296260-860 | COIL PIN, 5/16 x 3"                       | 2   |                       |
| 3                        | 296296-938 | PUNCH, 1/4 TOOTH                          | 1   |                       |
| <b>HB80</b>              |            |                                           |     |                       |
| 0                        | 296296-881 | WISE JAW KIT - HB80                       |     | INCLUDES 1-3          |
| 1                        |            | WISE JAW                                  | 2   | NOT SOLD INDIVIDUALLY |
| 2                        | 296279-026 | JAW ARM, BRUSHING                         | 2   |                       |
| 3                        | 75381-014  | BOLT, HX HD 1/2- 13x1.5 GR. 8             | 2   |                       |
| <b>HB125 - FRONT</b>     |            |                                           |     |                       |
|                          | 296278-477 | WISE JAW KIT, FRONT                       |     | INCLUDES 1-3          |
| 1                        |            | JAW, FRONT                                | 2   | NOT SOLD INDIVIDUALLY |
| 2                        | 296279-026 | JAW ARM, BUSHING                          | 2   |                       |
| 3                        | 75381-014  | BOLT, HX HD 1/2- 13x1.5" GR. 8            | 2   |                       |
| <b>HB125 - REAR</b>      |            |                                           |     |                       |
|                          | 296278-478 | WISE JAW KIT, REAR                        |     | INCLUDES 1-3          |
| 1                        |            | JAW, REAR                                 | 2   | NOT SOLD INDIVIDUALLY |
| 2                        | 296279-026 | JAW ARM, BUSHING                          | 2   |                       |
| 3                        | 75381-014  | BOLT, HX HD 1/2- 13x1.5" GR. 8            | 2   |                       |

**SHORE PLATES**  
**FIGURE 50-3**

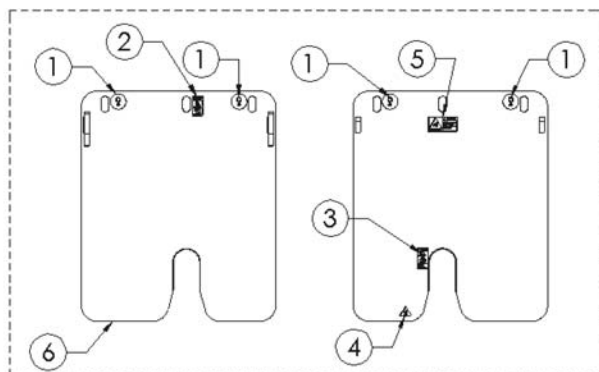
HB3038 &amp; HB5058



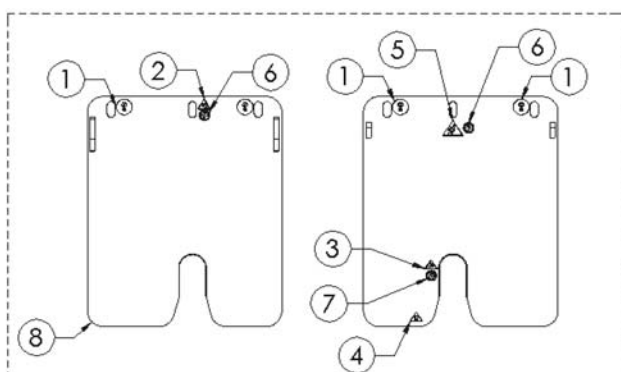
HB80 (DOM)



HB80 (INT)



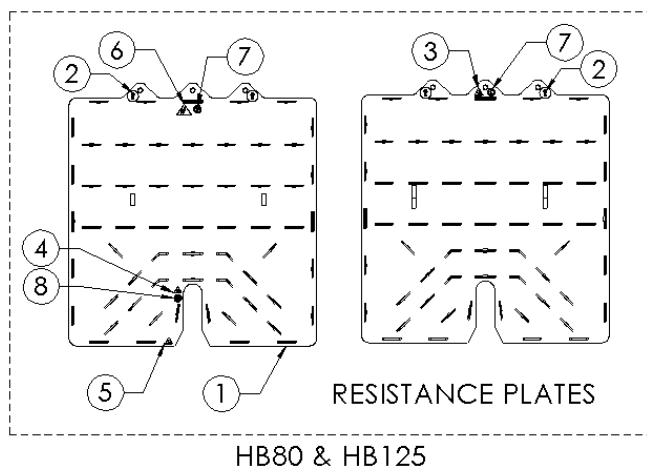
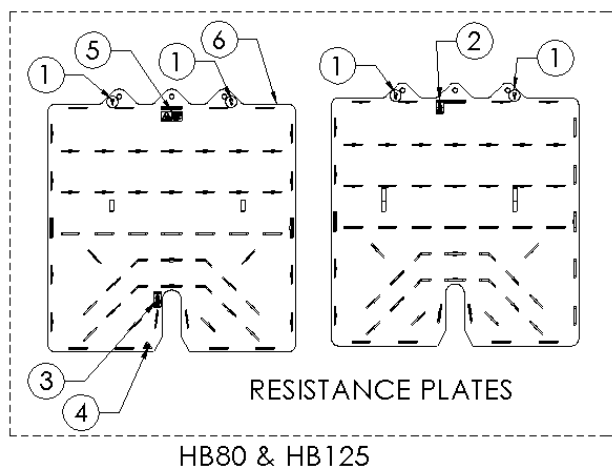
HB125 (DOM)



HB125 (INT)

**SHORE PLATES**

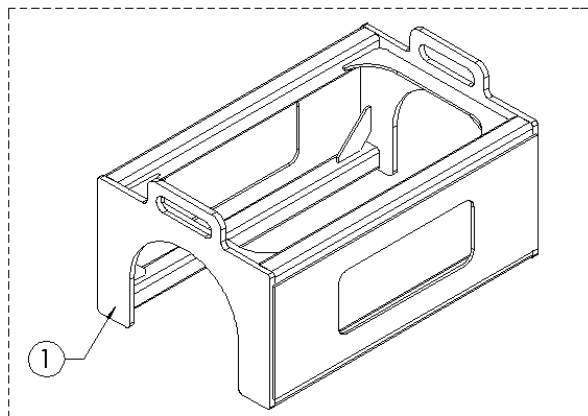
| ITEM NO.                         | PART NO.   | DESCRIPTION            | QTY | COMMENTS                        |
|----------------------------------|------------|------------------------|-----|---------------------------------|
| <b>HB3038 &amp; HB5058</b>       |            |                        |     |                                 |
| 1                                | 290836-001 | SHORE PLATE            | 1   | HB3038 & HB5058                 |
| 2                                | 296253-210 | SHORE PLATE - 1.5" GAP | 1   | FOR DOING 2" WORK WITH 35mm ROD |
| <b>SHORE PLATE - HB80 (DOM)</b>  |            |                        |     |                                 |
| 0                                | 296285-455 | SHORE PLATE ASSEMBLY   |     | INC 1-6                         |
| 1                                |            | SHORE PLATE, HB80      | 1   | NOT SOLD SEPARATELY             |
| 2                                | 296276-492 | DECAL, LIFT POINT      | 4   |                                 |
| 3                                | 296276-469 | DECAL, FALLING LOAD    | 1   |                                 |
| 4                                | 296274-915 | DECAL, PINCH POINT     | 1   |                                 |
| 5                                | 296278-486 | DECAL, FOOT CRUSH      | 1   |                                 |
| 6                                | 296278-488 | DECAL, CRUSH HAZARD    | 1   |                                 |
| <b>SHORE PLATE - HB80 (INT)</b>  |            |                        |     |                                 |
| 0                                | 296285-456 | SHORE PLATE ASSEMBLY   |     | INC 1-8                         |
| 1                                |            | SHORE PLATE, HB80      | 1   | NOT SOLD SEPARATELY             |
| 2                                | 296276-492 | DECAL, LIFT POINT      | 4   |                                 |
| 3                                | 296278-486 | DECAL, FOOT CRUSH      | 1   |                                 |
| 4                                | 296274-921 | DECAL, BODY CRUSH      | 1   |                                 |
| 5                                | 296274-922 | DECAL, STAY CLEAR      | 2   |                                 |
| 6                                | 296274-487 | DECAL, BODY CRUSH      | 1   |                                 |
| 7                                | 296274-919 | DECAL, HAND CRUSH      | 1   |                                 |
| 8                                | 296274-920 | DECAL, NO HANDS        | 1   |                                 |
| <b>SHORE PLATE - HB125 (DOM)</b> |            |                        |     |                                 |
| 0                                | 296279-089 | SHORE PLATE ASSEMBLY   |     | INC 1-6                         |
| 1                                | 296276-492 | DECAL, LIFT POINT      | 4   |                                 |
| 2                                | 296276-469 | DECAL, FALLING LOAD    | 1   |                                 |
| 3                                | 296274-915 | DECAL, PINCH POINT     | 1   |                                 |
| 4                                | 296278-486 | DECAL, FOOT CRUSH      | 1   |                                 |
| 5                                | 296278-488 | DECAL, CRUSH HAZARD    | 1   |                                 |
| 6                                | 296279-089 | SHORE PLATE            | 1   | NOT SOLD SEPARATELY             |
| <b>SHORE PLATE - HB125 (INT)</b> |            |                        |     |                                 |
| 0                                | 296296-956 | SHORE PLATE ASSEMBLY   |     | INC 1-8                         |
| 1                                | 296276-492 | DECAL, LIFT POINT      | 4   |                                 |
| 2                                | 296274-921 | DECAL, BODY CRUSH      | 1   |                                 |
| 3                                | 296274-919 | DECAL, HAND CRUSH      | 1   |                                 |
| 4                                | 296278-486 | DECAL, FOOT CRUSH      | 1   |                                 |
| 5                                | 296274-487 | DECAL, BODY CRUSH      | 1   |                                 |
| 6                                | 296274-922 | DECAL, STAY CLEAR      | 2   |                                 |
| 7                                | 296274-920 | DECAL, NO HANDS        | 1   |                                 |
| 8                                |            | SHORE PLATE            | 1   | NOT SOLD SEPARATELY]            |

**RESISTANCE PLATES**  
**FIGURE 50-4**

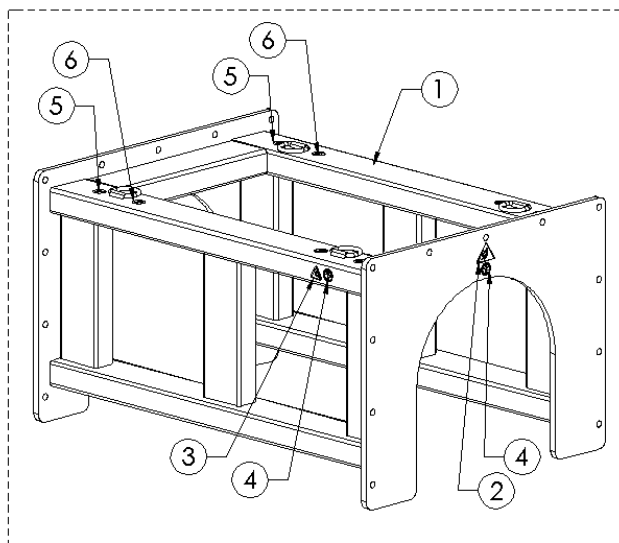
**RESISTANCE PLATES**

| ITEM NO.                      | PART NO.   | DESCRIPTION                     | QTY | COMMENTS            |
|-------------------------------|------------|---------------------------------|-----|---------------------|
| <b>RESISTANCE PLATE (DOM)</b> |            |                                 |     |                     |
| 0                             | 296278-489 | RESISTANCE PLATE ASSEMBLY (DOM) |     | INC 1-6             |
| 1                             | 296276-492 | DECAL, LIFT POINT               | 4   |                     |
| 2                             | 296276-469 | DECAL, FALLING LOAD             | 1   |                     |
| 3                             | 296274-915 | DECAL, PINCH POINT              | 1   |                     |
| 4                             | 296278-486 | DECAL, FOOT CRUSH               | 1   |                     |
| 5                             | 296278-488 | DECAL, CRUSH HAZARD             | 1   |                     |
| 6                             |            | RESISTANCE PLATE HB125          | 1   | NOT SOLD SEPARATELY |
| <b>RESISTANCE PLATE (INT)</b> |            |                                 |     |                     |
| 0                             | 296278-490 | RESISTANCE PLATE ASSEMBLY (INT) |     | INC 1-8             |
| 1                             |            | RESISTANCE PLATE HB125          |     | NOT SOLD SEPARATELY |
| 2                             | 296276-492 | DECAL, LIFT POINT               |     |                     |
| 3                             | 296274-921 | DECAL, BODY CRUSH               |     |                     |
| 4                             | 296274-919 | DECAL, HAND CRUSH               |     |                     |
| 5                             | 296278-486 | DECAL, FOOT CRUSH               |     |                     |
| 6                             | 296274-487 | DECAL, BODY CRUSH               |     |                     |
| 7                             | 296274-922 | DECAL, STAY CLEAR               |     |                     |
| 8                             | 296274-920 | DECAL, NO HANDS                 |     |                     |

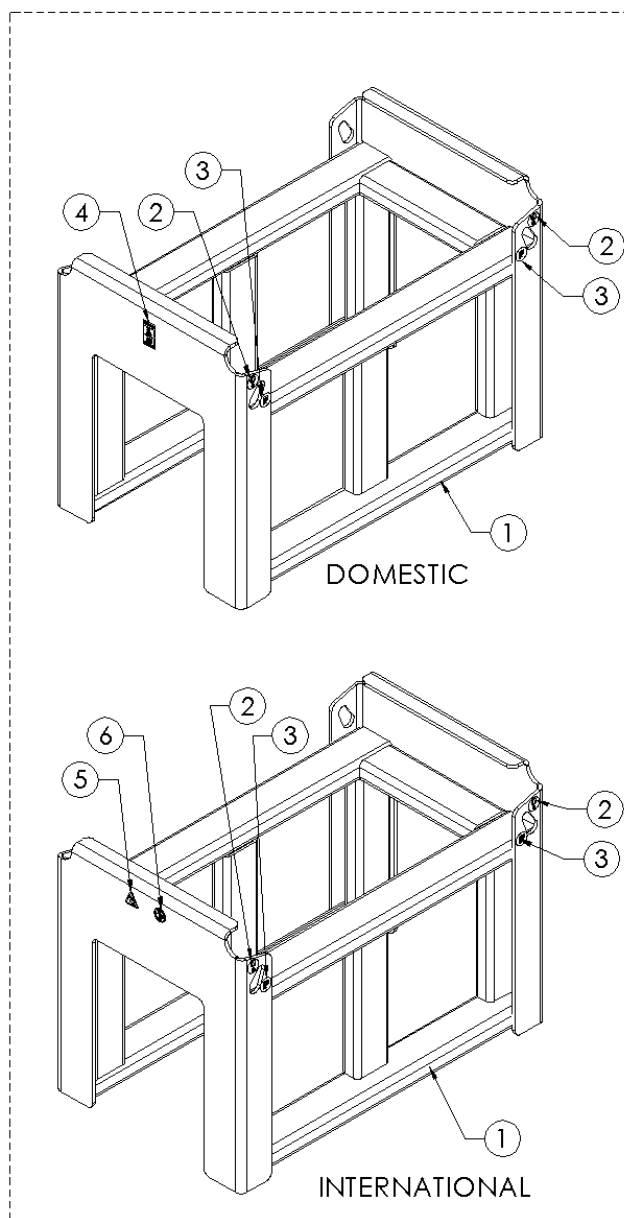
**CAGES**  
**FIGURE 50-5**



HB3038 & HB5058



HB125

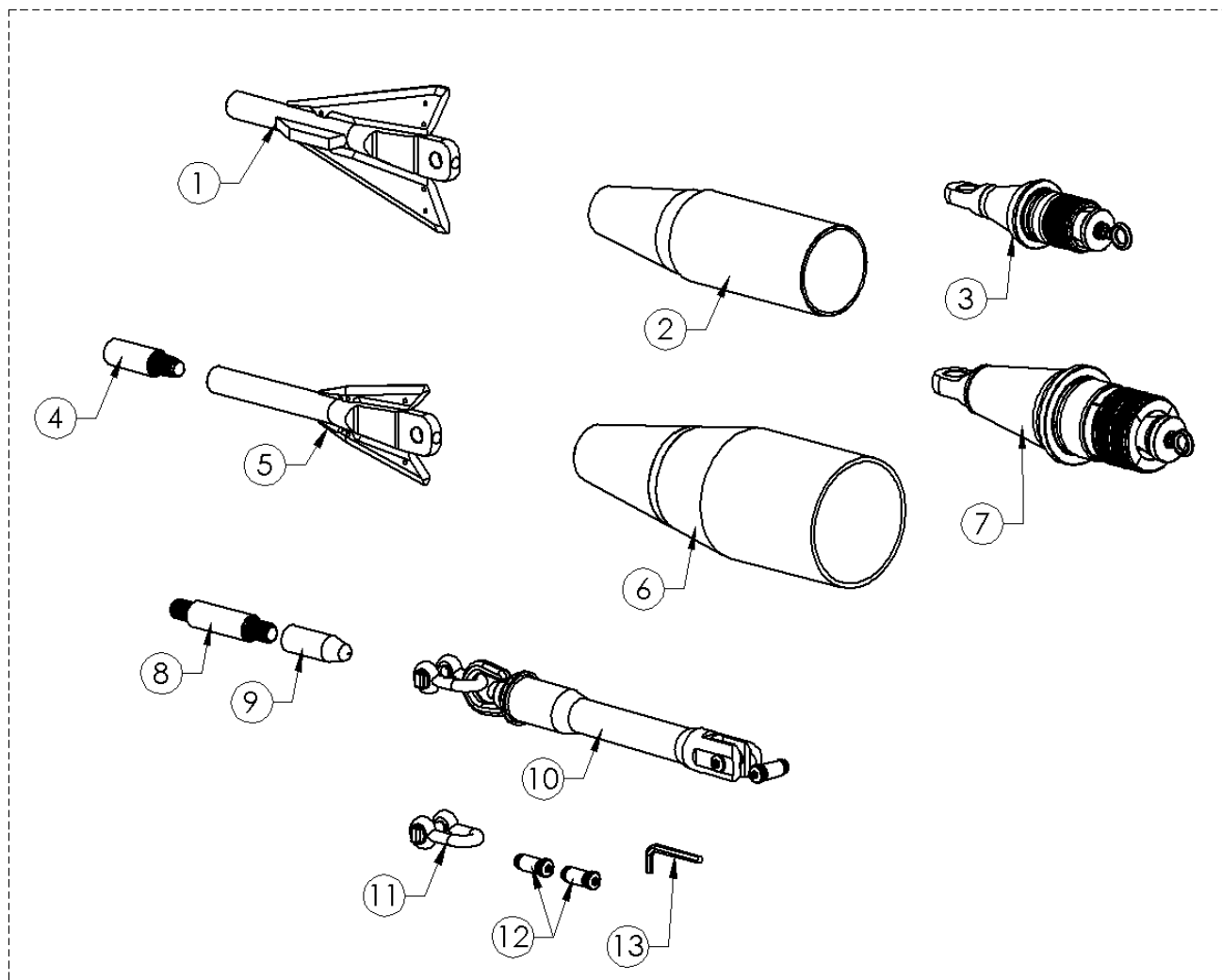


HB80

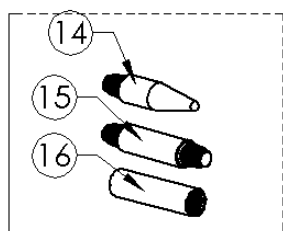
**CAGES**

| ITEM NO.                   | PART NO.   | DESCRIPTION               | QTY | COMMENTS                            |
|----------------------------|------------|---------------------------|-----|-------------------------------------|
| <b>HB3038 &amp; HB5058</b> |            |                           |     |                                     |
| 1                          | 296287-203 | CAGE                      | 1   |                                     |
| <b>HB80</b>                |            |                           |     |                                     |
| 0                          | 296260-983 | CAGE (DOM)                |     | INC 1-4                             |
|                            | 296062-983 | CAGE (INT)                |     | INC 1-3 & 5-6                       |
| 1                          |            | CAGE FRAME                | 1   | NOT SOLD SEPARATELY                 |
| 2                          | 296260-903 | DECAL, LIFT POINT         | 4   |                                     |
| 3                          | 296276-455 | DECAL, TIE DOWN           | 4   |                                     |
| 4                          | 296276-469 | DECAL, FALLING LOAD (DOM) | 2   |                                     |
| 5                          | 296274-921 | DECAL, BODY CRUSH (INT)   | 2   |                                     |
| 6                          | 296274-922 | DECAL, STAY CLEAR (INT)   | 2   |                                     |
| <b>HB125</b>               |            |                           |     |                                     |
| 0                          | 296296-958 | CAGE-HB125                |     | FOR LARGER THAN 16' WORK (INC. 1-6) |
| 1                          |            | CAGE WELDMENT             | 1   | NOT SOLD SEPARATELY                 |
| 2                          | 296278-487 | DECAL, BODY CRUSH         | 2   |                                     |
| 3                          | 296274-921 | DECAL, BODY CRUSH (INT)   | 4   |                                     |
| 4                          | 296274-922 | DECAL, STAY CLEAR (INT)   | 4   |                                     |
| 5                          | 296276-455 | DECAL, TIE DOWN           | 4   |                                     |
| 6                          | 296260-903 | DECAL, LIFT POINT         | 4g  |                                     |

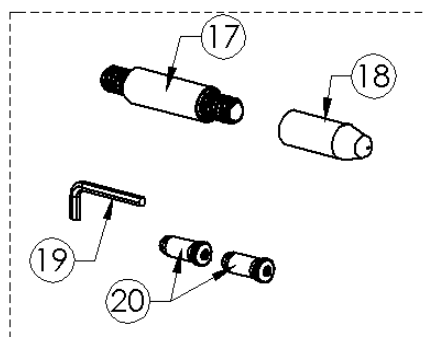
**ACCESSORY KITS - HB3038 & HB5058 (1 OF 2)**  
**FIGURE 50-6**



ACCESSORY KIT - INT  
HB3038 & HB5058



ACCESSORY KIT  
35mm ROD  
HB3038 & HB5058

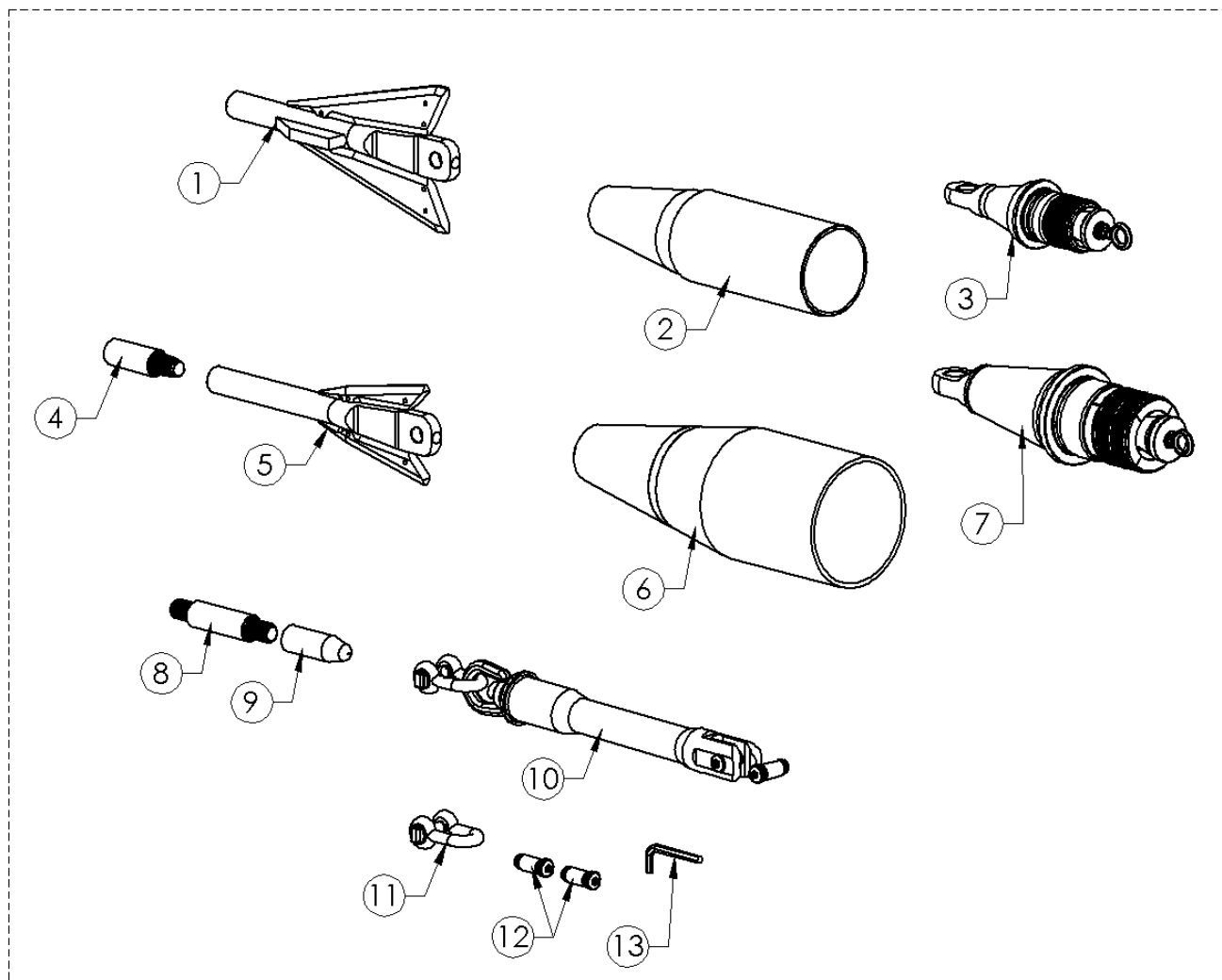


ACCESSORY KIT - DOM  
HB3038 & HB5058

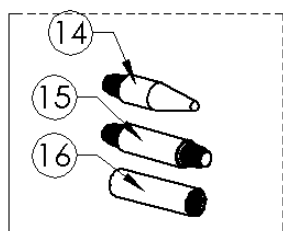
**ACCESSORY KITS - HB3038 & HB5058 (1 OF 2)**

| ITEM NO.                           | PART NO.    | DESCRIPTION                          | QTY | COMMENTS        |
|------------------------------------|-------------|--------------------------------------|-----|-----------------|
| <b>HB3038 &amp; HB5058 (DOM)</b>   |             |                                      |     |                 |
| 0                                  | 296285-484  | ACCESSORY KIT, HB3038 - SQ.          |     | INC 17-20       |
|                                    | 296285-485  | ACCESSORY KIT, HB 5058               |     | INC 17-20       |
| 17                                 | 290757-001  | ADAPTER, MALE x MALE                 | 1   | HB3038          |
|                                    | 290763-001  | ADAPTER, MALE x MALE                 | 1   | HB5058          |
| 18                                 | 248826-001  | PILOT, ROD                           |     | HB3038          |
|                                    | 290792-001  | PILOT, ROD                           | 1   | HB5058          |
| 19                                 | 290759-001  | HEX KEY 10mm                         | 1   |                 |
| 20                                 | 290751-001  | PIN, EXT HIGH STRENGTH               | 2   |                 |
| <b>HB3038 &amp; HB5058 (INT)</b>   |             |                                      |     |                 |
| 0                                  | 286724-001  | ACCESSORY KIT, HB3038 - SQ.          |     | INC 1-13        |
|                                    | 286727-001  | ACCESSORY KIT, HB5058                |     | INC 1-3 & 5-12  |
| 1                                  | 296296-797  | BLADE-6" PIPE, TAPERED               | 1   | HB3038          |
|                                    | 290761-001  | BLADE-6" PIPE                        | 1   | HB5058          |
| 2                                  | 290754-001  | EXPANDER-125mm                       | 1   |                 |
| 3                                  | 296253-242  | PIPE PULLER - 110 mm                 | 1   |                 |
| 4                                  | 2962296-807 | ADAPTER, TAPERED (M) x SQ. (F)       | 1   | HB3038 SQ. ONLY |
| 5                                  | 296296-796  | BLADE-3" & 4" PIPE - HB3038 -TAPERED | 1   | HB3038          |
|                                    | 290760-001  | BLADE-3" & 4" PIPE                   | 1   | HB5058          |
| 6                                  | 290752-001  | EXPANDER-180mm                       | 1   |                 |
| 7                                  | 296253-246  | PIPE PULLER 160mm                    | 1   |                 |
| 8                                  | 290757-001  | ADAPTER MALE x MALE - SQ.            | 1   | HB3038          |
|                                    | 290763-001  | ADAPTER, MALE x MALE                 | 1   | HB5058          |
| 9                                  | 248826-001  | PILOT, ROD                           | 1   | HB3038          |
|                                    | 290792-001  | PILOT, ROD (2")                      | 1   | HB5058          |
| 10                                 | 296267-685  | SWIVEL ASSY - LONG                   | 1   |                 |
| 11                                 | 251874-001  | SHACKLE, 7.0T                        | 1   |                 |
| 12                                 | 290751-001  | PIN EXT HIGH STRENGTH                | 2   |                 |
| 13                                 | 290759-001  | HEX KEY 10mm                         | 1   |                 |
| <b>HB3038 &amp; HB5058 (35 mm)</b> |             |                                      |     |                 |
| 0                                  | 296260-796  | ACCESSORY KIT, 35mm ROD              |     | INC 14-16       |
| 14                                 | 296253-050  | PILOT ROD - 35mm ROD                 | 1   |                 |
| 15                                 | 296253-052  | ADAPTER, MALE x MALE - 35mm ROD      | 1   |                 |
| 16                                 | 296253-051  | ADAPTER, FEMALE x FEMALE - 35mm ROD  |     |                 |

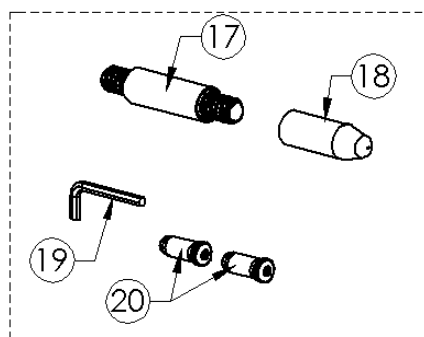
**ACCESSORY KITS - HB3038 & HB5058 (2 OF 2)**  
**FIGURE 50-6**



**ACCESSORY KIT - INT**  
**HB3038 & HB5058**



**ACCESSORY KIT**  
**35mm ROD**  
**HB3038 & HB5058**



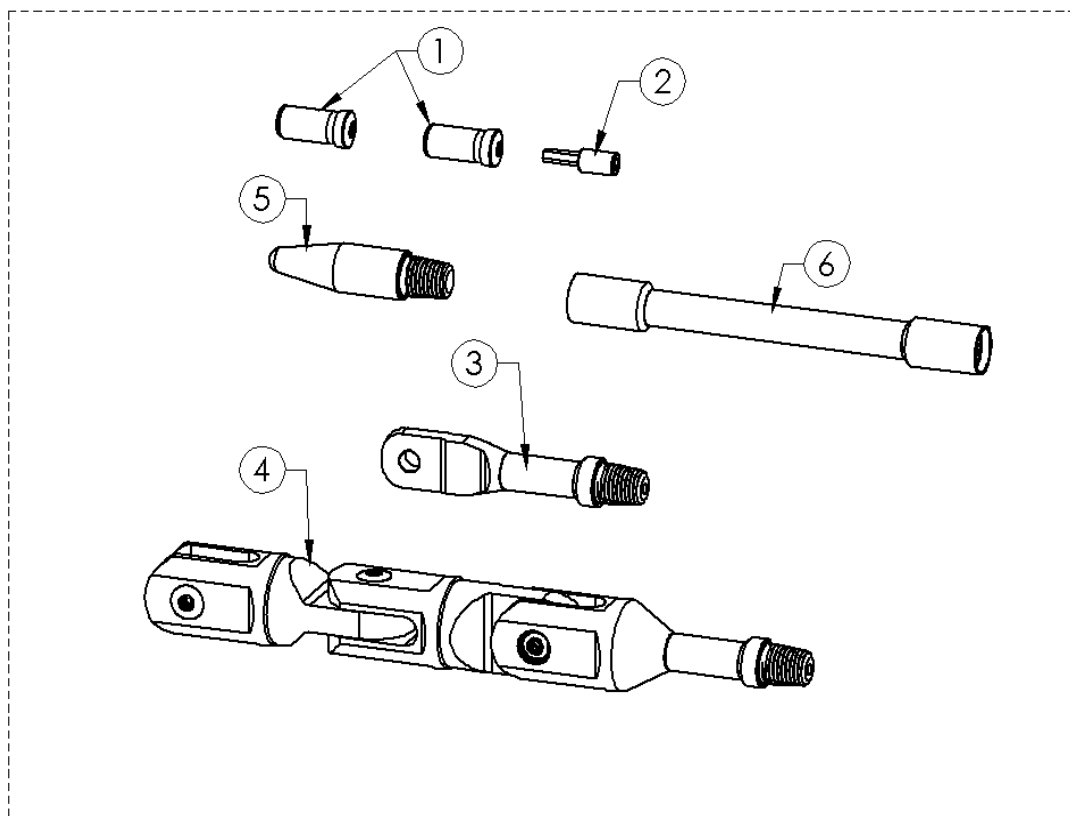
**ACCESSORY KIT - DOM**  
**HB3038 & HB5058**

**ACCESSORY KITS - HB3038 & HB5058 (2 OF 2)**

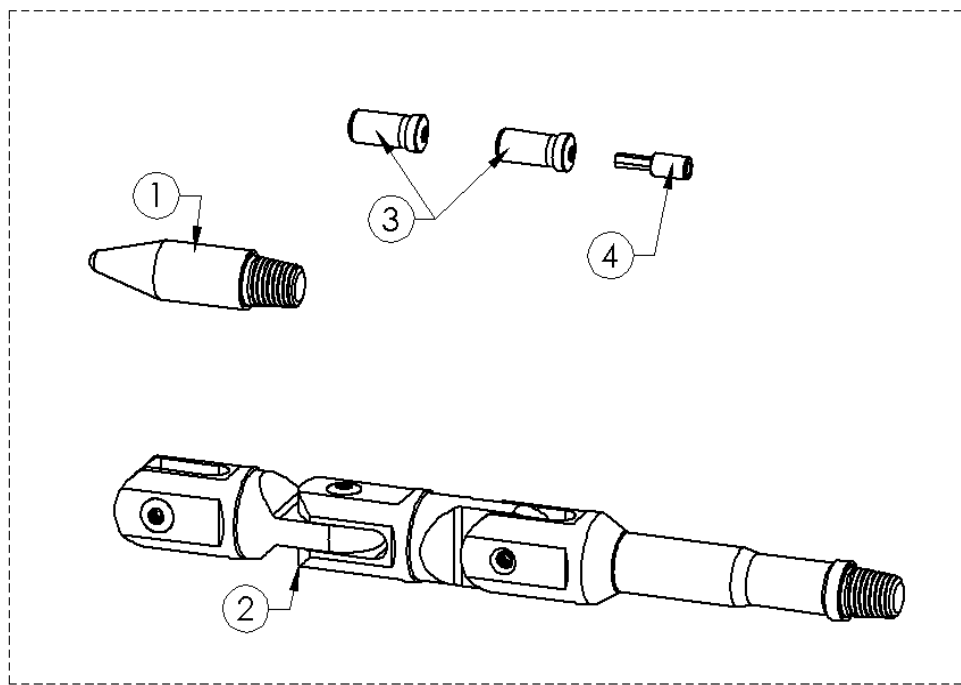
| ITEM NO. | PART NO.   | DESCRIPTION                          | QTY | COMMENTS       |
|----------|------------|--------------------------------------|-----|----------------|
| 0        | 296296-801 | HB3038 ACCESSORY KIT - TAPERED (INT) | 1   | Includes 1-12  |
| 1        | 296296-797 | BLADE - 6" PIPE -TAPERED             | 1   |                |
| 2        | 290754-001 | EXPANDER - 125 mm                    | 1   |                |
| 3        | 296253-242 | PIPE PULLER - 110 mm                 | 1   |                |
| 5        | 296296-796 | BLADE - 3" & 4" PIPE -TAPERED        | 1   |                |
| 6        | 290752-001 | EXPANDER - 180 mm                    | 1   |                |
| 7        | 296253-246 | PIPE PULLER - 160 mm                 | 1   |                |
| 8        | 296296-793 | ADAPTER, MALE x MALE - TAPERED       | 1   |                |
| 9        | 296296-794 | PILOT, ROD - TAPERED                 | 2   |                |
| 10       | 296267-685 | SWIVEL ASSEMBLY - LONG               | 1   |                |
| 11       | 251874-001 | SHACKLE, 7.0T.                       | 1   |                |
| 12       | 290751-001 | PIN, EXT HIGH STRENGTH               | 1   |                |
| 13       | 290759-001 | HEX KEY, 10 mm                       | 1   |                |
|          |            |                                      |     |                |
| 0        | 296296-802 | HB3038 ACCESSORY KIT - TAPERED (DOM) | 1   | INCLUDES 16-19 |
| 17       | 296296-793 | ADAPTER, MALE x MALE - TAPERED       | 1   |                |
| 18       | 296296-794 | PILOT, ROD - TAPERED                 | 1   |                |
| 19       | 290759-001 | HEX KEY, 10 mm                       | 1   |                |
| 20       | 290751-001 | PIN, EXT HIGH STRENGTH               | 2   |                |

## ACCESSORY KITS - HB80 &amp; HB125

FIGURE 50-7



ACCESSORY KIT - HB80

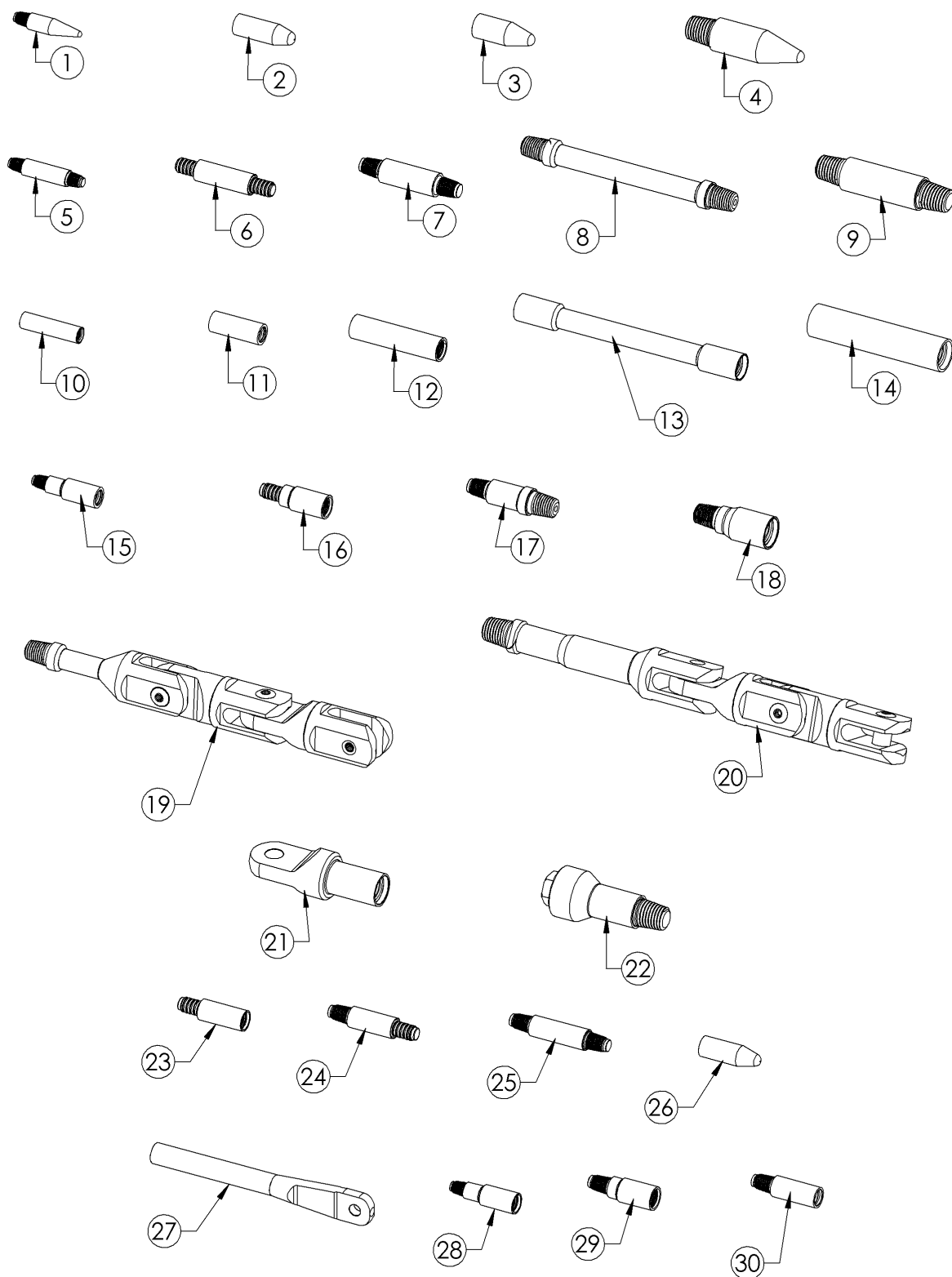


ACCESSORY KIT - HB125

**ACCESSORY KITS - HB80 & HB125**

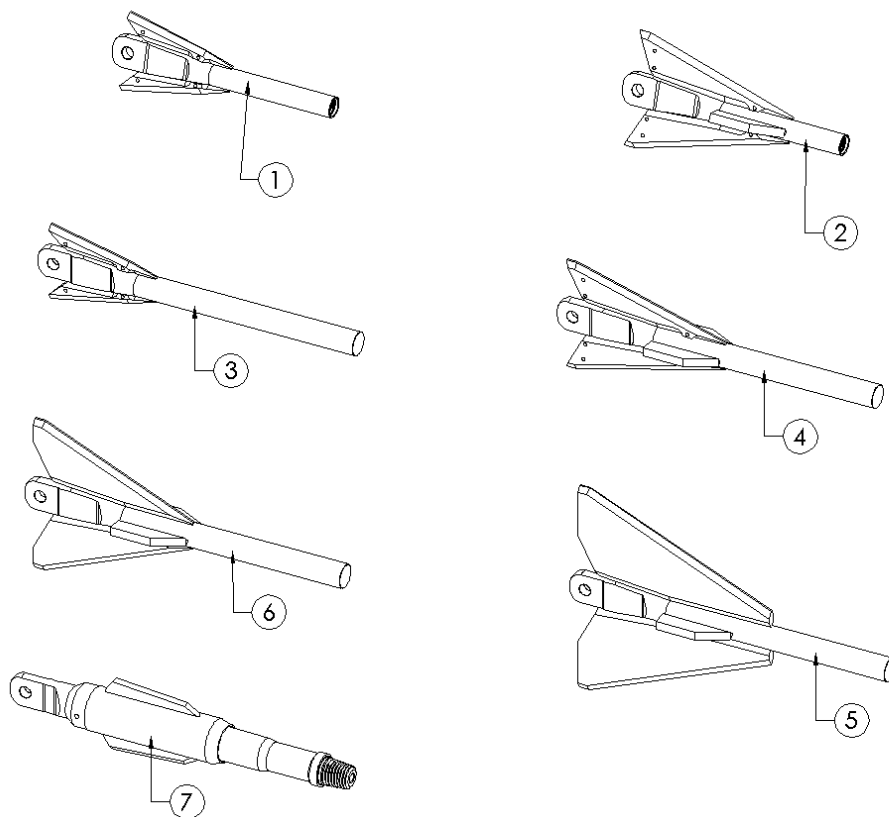
| ITEM NO. | PART NO.    | DESCRIPTION                   | QTY. | COMMENTS |
|----------|-------------|-------------------------------|------|----------|
| 0        | 296285-460  | ACCESSORY KIT, HB80 STD       |      | INC 1-6  |
| 1        | 296274-814  | PIN - HB125                   | 2    |          |
| 2        | 296274-971  | SOCKET, IMPACT - 14mm HEX BIT | 1    |          |
| 3        | 296260-910  | NON-BLADED STARTER ROD        | 1    |          |
| 4        | 296293-679  | FLEX JOINT-HB80               | 1    |          |
| 5        | 296293-683  | ROD, PILOT - HB80             | 1    |          |
| 6        | 2993285-453 | ADAPTER, HB80 (F) x HB80 (F)  | 1    |          |

| ITEM NO. | PART NO.   | DESCRIPTION                   | QTY. | COMMENTS |
|----------|------------|-------------------------------|------|----------|
| 0        | 296274-970 | ACCESSORY KIT, HB125 STD      |      | INC 1-4  |
| 1        | 296274-967 | ROD, PILOT - HB125            | 1    |          |
| 2        | 296274-962 | FLEX JOINT                    | 1    |          |
| 3        | 296274-814 | PIN - HB125                   | 2    |          |
| 4        | 296274-971 | SOCKET, IMPACT - 14mm HEX BIT | 1    |          |

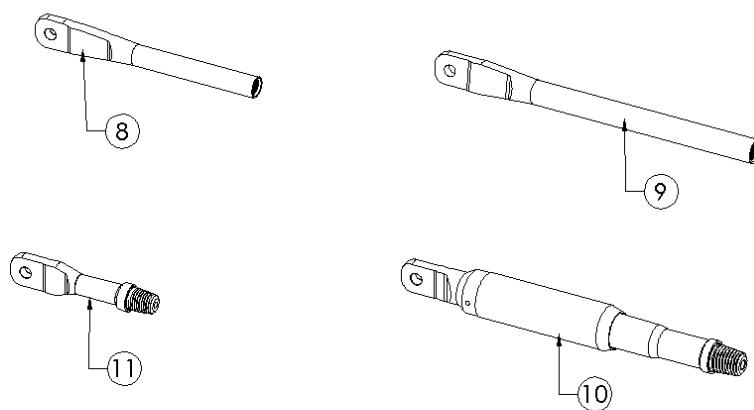
**ROD ACCESSORIES**  
**FIGURE 50-8**

**ROD ACCESSORIES**

| ITEM NO. | VEEMEER NO. | DESCRIPTION                            | QTY | COMMENTS        |
|----------|-------------|----------------------------------------|-----|-----------------|
| 1        | 296253-050  | PILOT, ROD - 35mm ROD                  | 1   | HB3038 & HB5058 |
| 2        | 248826-001  | PILOT, ROD                             | 1   | HB3038          |
| 3        | 290792-001  | PILOT, ROD (2")                        | 1   | HB5058          |
| 4        | 296274-967  | ROD,PILOT - HB125                      | 1   | HB80 & HB125    |
| 5        | 296253-052  | ADAPTER, MALE x MALE - 35mm ROD        | 1   | HB3038 & HB5058 |
| 6        | 290757-001  | ADAPTER MALE x MALE                    | 1   | HB3038          |
| 7        | 290763-001  | ADAPTER, MALE x MALE                   | 1   | HB5058          |
| 8        | 296285-450  | ADAPTER, MALE x MALE                   | 1   | HB80            |
| 9        | 296274-968  | ADAPTER, MALE x MALE                   | 1   | HB125           |
| 10       | 296253-051  | ADAPTER, FEMALE x FEMALE - 35mm ROD    | 1   | HB3038 & HB5058 |
| 11       | 248825-001  | ADAPTER, FEMALE x FEMALE               | 1   | HB3038          |
| 12       | 290762-001  | ADAPTER, FEMALE x FEMALE               | 1   | HB5058          |
| 13       | 296285-453  | ADAPTER, FEMALE x FEMALE               | 1   | HB80            |
| 14       | 296274-969  | ADAPTER, FEMALE x FEMALE               | 1   | HB125           |
| 15       | 296293-678  | ADAPTER, 35mm TO 1.75" (45mm) ROD      | 1   |                 |
| 16       | 296253-196  | ADAPTER, 1.75" (45mm) TO 2" (50mm) ROD | 1   |                 |
| 17       | 296285-454  | ADAPTER, HB5058 (M) x HB80 (M)         | 1   | HB80            |
| 18       | 296260-909  | ADAPTER, HB125 (F) x HB80 (M)          | 1   | HB80            |
| 19       | 29629-679   | FLEX JOINT - HB80                      | 1   | HB80            |
| 20       | 296274-962  | FLEX JOINT - HB125                     | 1   | HB125           |
| 21       | 296274-974  | HB125 PJM x HB125 BOX                  | 1   |                 |
| 22       | 296278-381  | SPUD, BURST HEAD ADAPTER               | 1   |                 |
| 23       | 296296-790  | ADAPTER, SQ (M)x TAPERED (F)           | 1   | HB3038          |
| 24       | 296296-792  | ADAPTER, TAPERED (M) x SQ. (M)         | 1   | HB3038          |
| 25       | 296296-793  | ADAPTER, MALE x MALE - TAPERED         | 1   | HB3038          |
| 26       | 296296-794  | PILOT, ROD - TAPERED                   | 1   | HB3038          |
| 27       | 296296-795  | STARTER ROD, NON-BLADED - TAPERED      | 1   | HB3038          |
| 28       | 296296-799  | ADAPTER, 35 mm TO 1.75" ROD TAPERED    | 1   | HB3038          |
| 29       | 296296-800  | ADAPTER, 1.75" TO 2.0" ROD TAPERED     | 1   | HB3038          |
| 30       | 296296-807  | ADAPTER, TAPERED (M) x SQ(F)           | 1   | HB3038          |

**STARTER RODS**  
**FIGURE 50-9**

STARTER RODS - BLADED

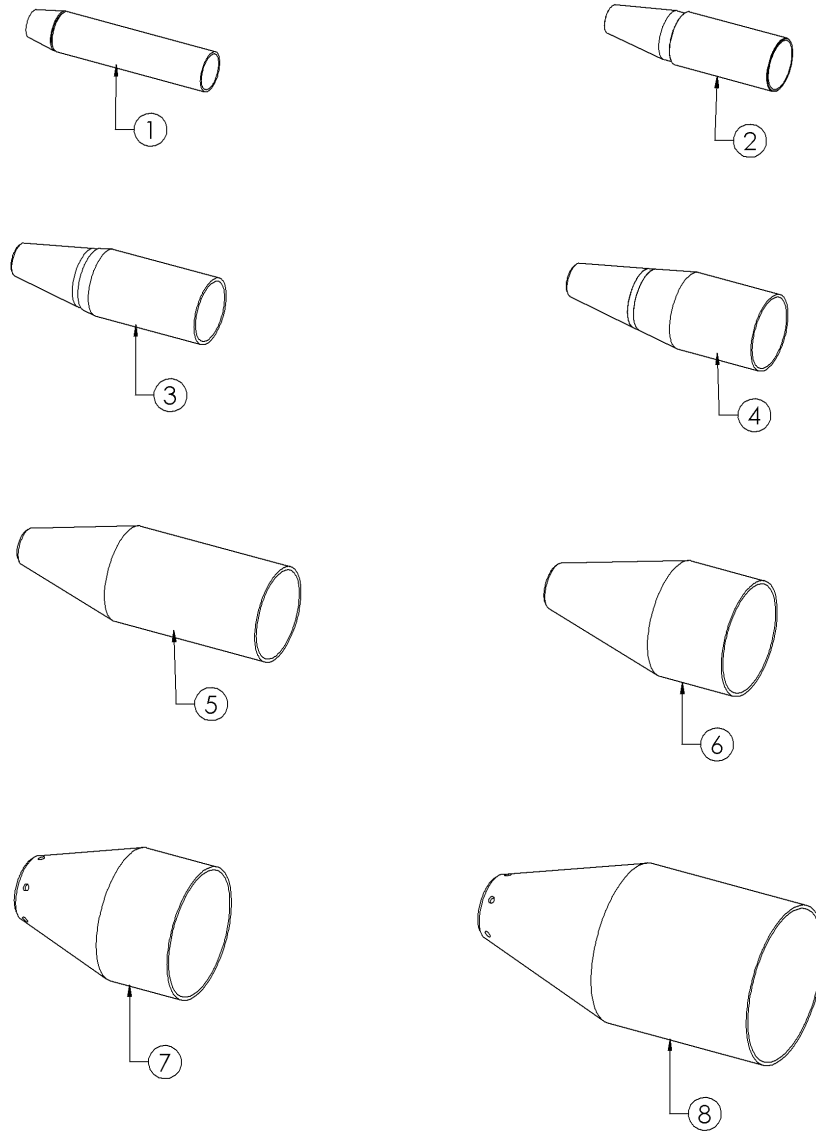


STARTER RODS - NON-BLADED

**STARTER RODS**

| ITEM NO.                         | PART NO.   | DESCRIPTION                                  | COMMENTS                             |
|----------------------------------|------------|----------------------------------------------|--------------------------------------|
| <b>STARTER RODS - BLADED</b>     |            |                                              |                                      |
| 1                                | 296296-796 | BLADE - 3" & 4" PIPE - TAPERED               | FOR HB3038                           |
| 2                                | 296296-797 | BLADE - 6" PIPE - TAPERED                    | FOR HB3038                           |
| 3                                | 290760-001 | BLADE - 3" & 4" PIPE                         | FOR HB5058                           |
| 4                                | 290761-001 | BLADE - 6" PIPE                              | FOR HB5058                           |
| 5                                | 296253-194 | BLADE - 8" PIPE                              | FOR HB5058                           |
| 6                                | 296253-239 | BLADE - 10" & 12                             | FOR HB5058                           |
| 7                                | 296274-949 | STARTER ROD ASSEMBLY, 4-6 W/ BLADES          | FOR HB80 & HB125                     |
| <b>STARTER RODS - NON-BLADED</b> |            |                                              |                                      |
| 8                                | 296296-795 | STARTER ROD, NON-BLADED TAPERED              | FOR HB3038                           |
| 9                                | 293867-001 | STARTER ROD, NON-BLADED                      | FOR HB5058                           |
| 10                               | 296274-950 | STARTER ROD ASSEMBLY, 4-6 W/O BLADES (HB125) | FOR HB125 W/ SMALL PIN JOINT TOOLING |
| 11                               | 296260-910 | STARTER ROD, NON-BLADED                      | FOR HB80 W/ SMALL PIN JOINT TOOLING  |

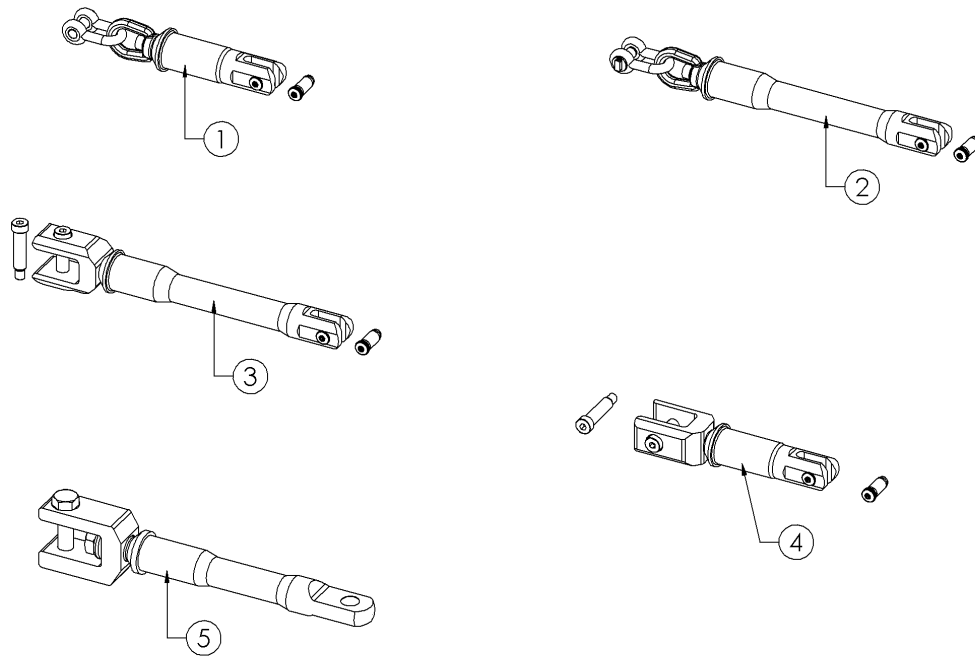
**EXPANDERS**  
**FIGURE 50-10**



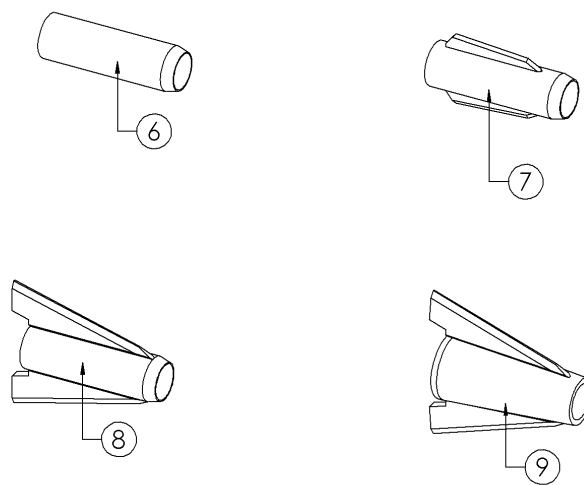
**EXPANDERS**

| ITEM NO. | PART NO.   | DESCRIPTION                 | OD (in) | ID (in) | OD (mm) | ID (mm) |
|----------|------------|-----------------------------|---------|---------|---------|---------|
| 1        | 296253-214 | EXPANDER, 90mm              | 4.5     | 4.03    | 114.3   | 102.4   |
| 2        | 290754-001 | EXPANDER, 125mm             | 6       | 5.5     | 152.4   | 139.7   |
| 3        | 290753-001 | EXPANDER, 160mm             | 7.5     | 6.75    | 190.5   | 171.5   |
| 4        | 290752-001 | EXPANDER, 180mm             | 8.62    | 8       | 218.9   | 203.2   |
| 5        | 296253-195 | EXPANDER, 8", 200mm & 225mm | 10.75   | 10      | 273.05  | 254     |
| 6        | 296253-241 | EXPANDER, 10" & 250mm       | 13      | 12.25   | 330.2   | 311.2   |
| 7        | 296253-240 | EXPANDER, 12" & 315mm       | 15      | 14.25   | 381.0   | 362.0   |
| 8        | 296293-542 | EXPANDER, 14" & 355mm       | 18      | 17.25   | 457.2   | 438.15  |

# SWIVEL ASSEMBLIES FIGURE 50-11



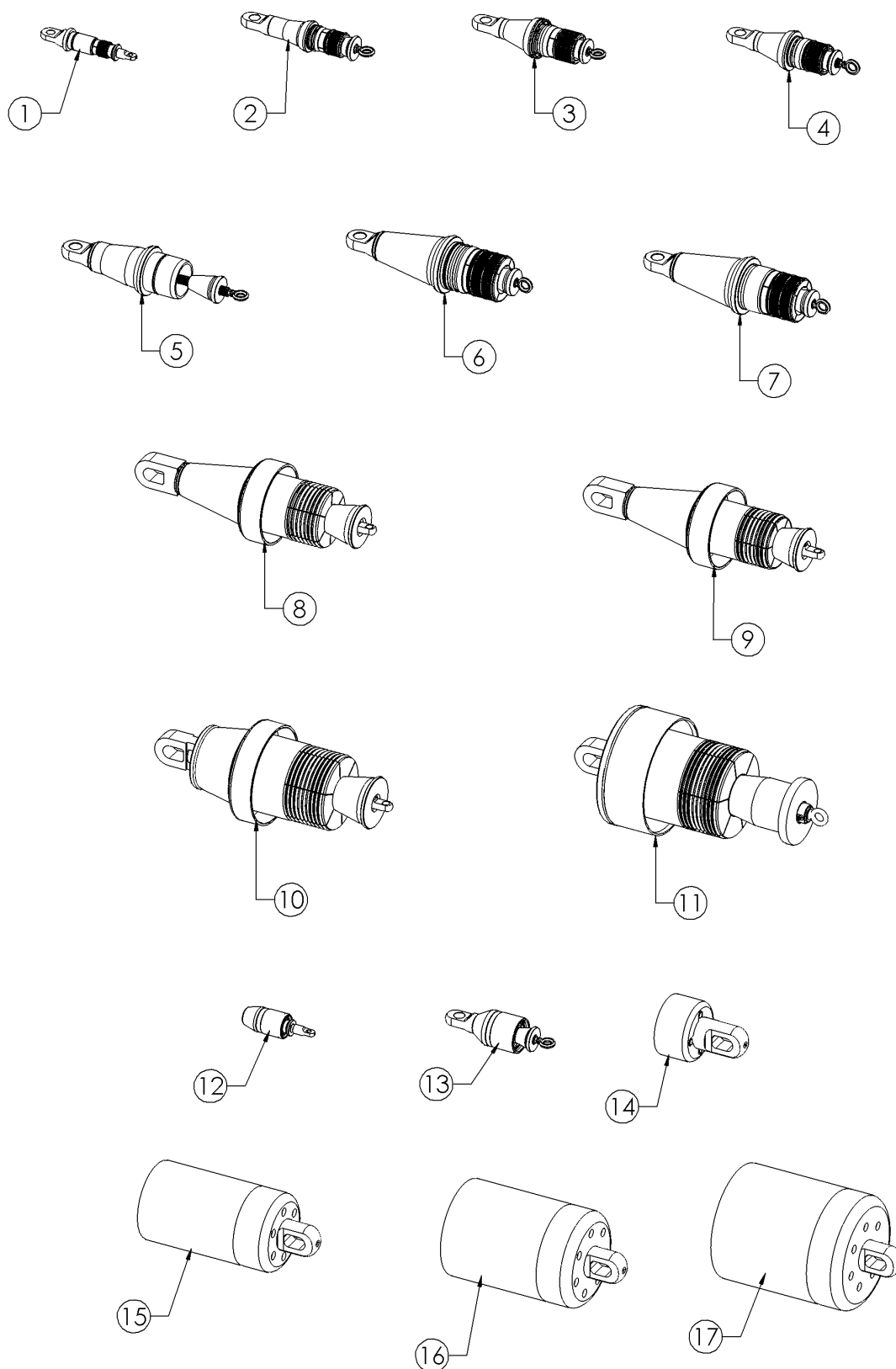
SWIVEL ASSEMBLIES



SWIVEL ASSEMBLY ACCESSORIES

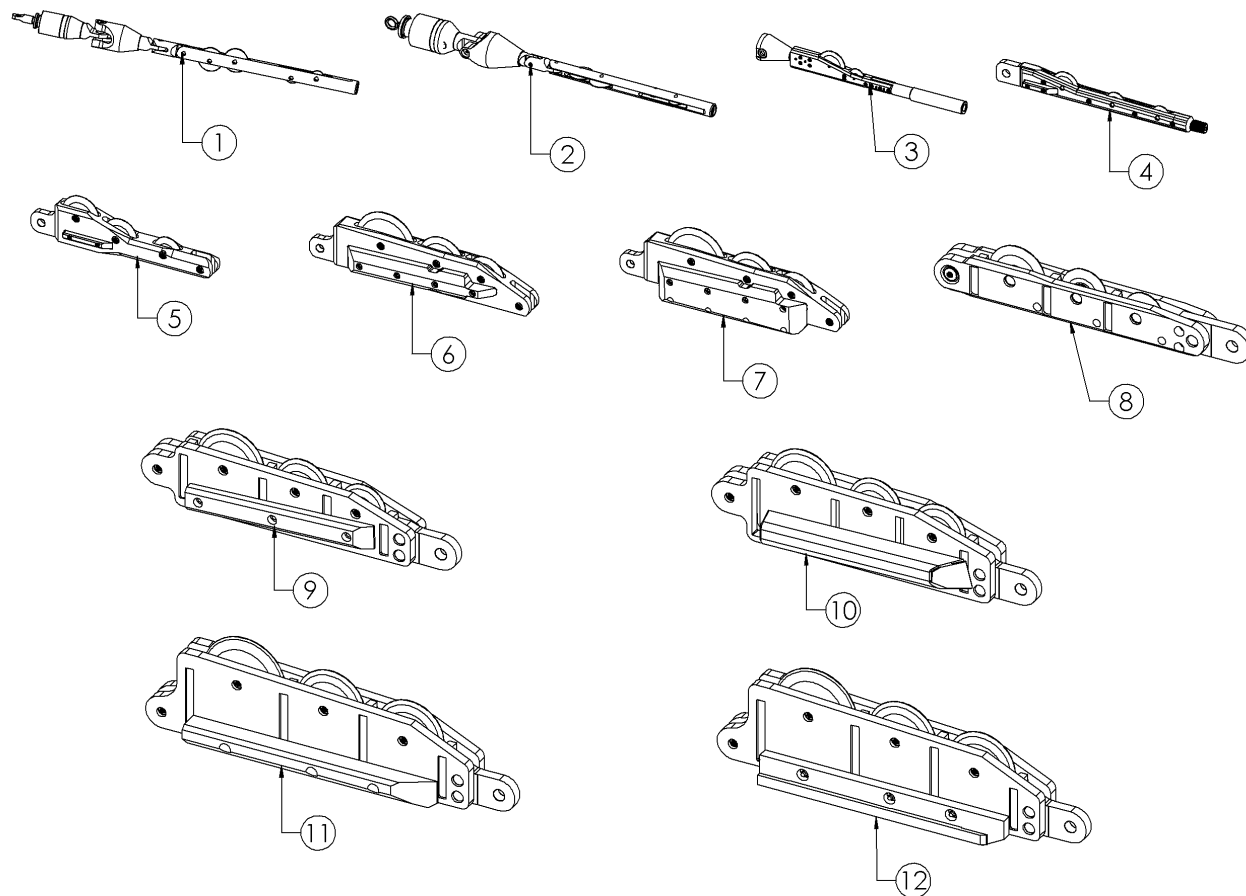
**SWIVEL ASSEMBLIES**

| ITEM NO.                           | PART NO.   | DESCRIPTION                     | QTY | COMMENTS            |
|------------------------------------|------------|---------------------------------|-----|---------------------|
| <b>SWIVEL ASSEMBLIES</b>           |            |                                 |     |                     |
| 1                                  | 290758-001 | SWIVEL ASSEMBLY                 |     | FOR HB3038 & HB5058 |
| 2                                  | 296267-685 | SWIVEL ASSEMBLY - LONG          |     | FOR HB3038 & HB5058 |
| 3                                  | 296266-095 | SWIVEL ASSEMBLY - LARGE         |     | FOR HB3038 & HB5058 |
| 4                                  | 296260-795 | SWIVEL ASSEMBLY - LARGE (SHORT) |     | FOR HB3038 & HB5058 |
| 5                                  | 296274-955 | EXPANDER ROD ASSEMBLY           |     | FOR HB80 & HB125    |
| <b>SWIVEL ASSEMBLY ACCESSORIES</b> |            |                                 |     |                     |
| 6                                  | 296274-966 | SLEEVE                          |     | FOR HB80 & HB125    |
| 7                                  | 296274-952 | BLADE SET, 4-6                  |     | FOR HB80 & HB125    |
| 8                                  | 296274-953 | BLADE SET, 8-10                 |     | FOR HB80 & HB125    |
| 9                                  | 296274-954 | BLADE SET, 12                   |     | FOR HB80 & HB125    |

**PULLERS**  
**FIGURE 50-12**

**PULLERS**

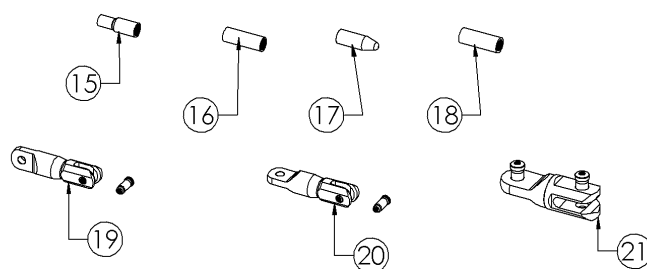
| ITEM NO. | PART NO.     | DESCRIPTION                          | COMMENTS |
|----------|--------------|--------------------------------------|----------|
| 1        | 231908-001-1 | PULLER, EXPANDING TAPER - 2" STD     |          |
| 2        | 131506-001-1 | PULLER, EXPANDING TAPER - 3" STD     |          |
| 3        | 131507-001-1 | PULLER, EXPANDING TAPER - 4" STD     |          |
| 4        | 296253-242   | PULLER, EXPANDING TAPER - 110mm STD  |          |
| 5        | 280633-001   | PULLER, EXPANDING TAPER - 5" STD     |          |
| 6        | 131508-001-1 | PULLER, EXPANDING TAPER - 6" STD     |          |
| 7        | 296253-246   | PULLER, EXPANDING TAPER - 160mm" STD |          |
| 8        | 238811-001   | PULLER, EXPANDING TAPER - 8" STD     |          |
| 9        | 296260-207   | PULLER, EXPANDING TAPER - 200mm STD  |          |
| 10       | 238812-001   | PULLER, EXPANDING TAPER - 10" STD    |          |
| 11       | 238813-001   | PULLER, EXPANDING TAPER - 12" STD    |          |
| 12       | 289469-001   | PULLER, EXPANDING TAPER - 2" SLEEVED |          |
| 13       | 296255-564   | PULLER, EXPANDING TAPER - 3" SLEEVED |          |
| 14       | 296296-913   | PULLING HEAD - 6" DIPS               |          |
| 15       | 296296-918   | PULLING HEAD - 8" DIPS               |          |
| 16       | 296296-925   | PULLING HEAD - 10" DIPS              |          |
| 17       | 296296-930   | PULLING HEAD - 12" DIPS              |          |

**SLITTERS**  
**FIGURE 50-13**

SLITTERS w/ DISKS



SLITTERS w/ STATIC BLADES

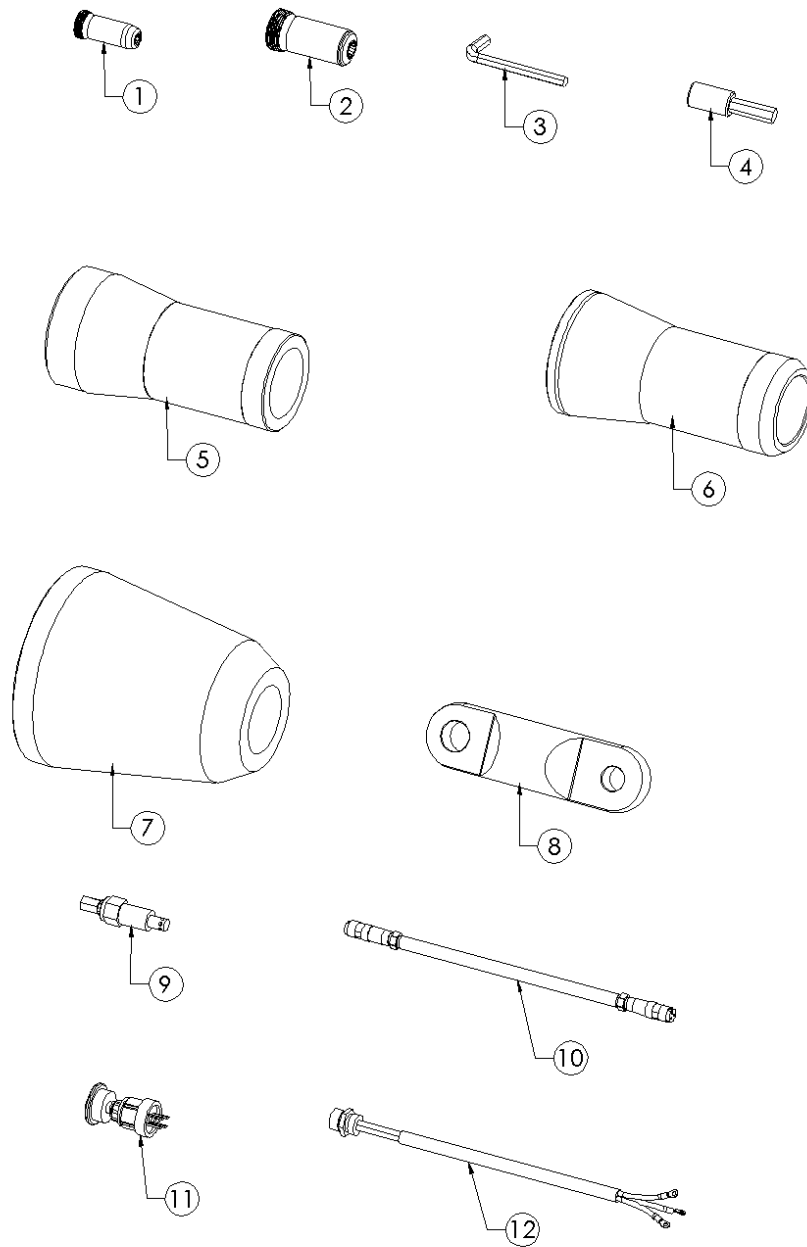


SLITTER ACCESSORIES

**SLITTERS**

| ITEM NO.                         | PART NO.   | DESCRIPTION                               | COMMENTS                                   |
|----------------------------------|------------|-------------------------------------------|--------------------------------------------|
| <b>SLITTERS W/ DISKS</b>         |            |                                           |                                            |
| 1                                | 296263-882 | PVC SLITTER ASSEMBLY - 2"                 | FOR 35mm ROD                               |
| 2                                | 296263-893 | PVC SLITTER ASSEMBLY - 3"                 | FOR 35mm ROD                               |
| 3                                | 296296-787 | DUCTILE SLITTER ASSEMBLY - 40mm & 50mm    | FOR 35mm ROD & PB30                        |
| 4                                | 266266-222 | DUCTILE SLITTER ASSEMBLY - 2"             | FOR HB3038 & HB5058                        |
| 5                                | 296266-002 | DUCTILE SLITTER ASSEMBLY - 4"             |                                            |
| 6                                | 296266-086 | DUCTILE SLITTER ASSEMBLY - 6"             |                                            |
| 7                                | 296263-865 | DUCTILE SLITTER ASSEMBLY - 8"             |                                            |
| 8                                |            | DUCTILE SLITTER ASSEMBLY - 6"             | FOR HB80 & HB125                           |
| 9                                | 296274-815 | DUCTILE SLITTER ASSEMBLY - 8"             | FOR HB80 & HB125                           |
| 10                               | 296274-817 | DUCTILE SLITTER ASSEMBLY - 10"            | FOR HB80 & HB125                           |
| 11                               | 296274-819 | DUCTILE SLITTER ASSEMBLY - 12"            | FOR HB80 & HB125                           |
| 12                               | 296293-544 | DUCTILE SLITTER ASSEMBLY - 14"            | FOR HB80 & HB125                           |
| <b>SLITTERS W/ STATIC BLADES</b> |            |                                           |                                            |
| 13                               | 296253-057 | SLITTER, GALVANIZED - 2" PIPE             | FOR 35mm ROD                               |
| 14                               | 296253-212 | SLITTER, PLASTIC - 2" PIPE                | FOR 35mm ROD                               |
| <b>SLITTER ACCESSORIES</b>       |            |                                           |                                            |
| 15                               | 296266-219 | ADAPTER, 35mm ROD                         | FOR USE WITH DUCTILE SLITTER ASSEMBLY - 2" |
| 16                               | 296266-200 | ADAPTER, 1.75" (45 mm ROD) - SQ.          | FOR USE WITH DUCTILE SLITTER ASSEMBLY - 2" |
| 17                               | 296296-789 | ADAPTER, 1.75" (45mm) ROD - TAPERED       | FOR USE WITH DUCTILE SLITTER ASSEMBLY - 2" |
| 18                               | 296266-221 | ADAPTER, 2.0" (50mm) ROD                  | FOR USE WITH DUCTILE SLITTER ASSEMBLY - 2" |
| 19                               | 296266-009 | TRAILING PIVOT ROD ASSEMBLY               | FOR HB3038 & HB 5058                       |
| 20                               | 296278-444 | TRAILING PIVOT ROD - TWISTED 90° ASSEMBLY | FOR HB3038 & HB 5058                       |
| 21                               | 296274-948 | TRAILING PIVOT ROD ASSEMBLY (HB125)       | FOR HB80 & HB 125                          |

**MISC. ACCESSORIES**  
**FIGURE 50-14**



**MISC. ACCESSORIES**

| ITEM NO.                                                 | PART NO.   | DESCRIPTION                               | COMMENTS                                          |
|----------------------------------------------------------|------------|-------------------------------------------|---------------------------------------------------|
| 1                                                        | 290751-001 | EXTRA HIGH STRENGTH PIN                   | FOR SMALL PIN JOINT                               |
| 2                                                        | 296274-814 | PIN                                       | FOR LARGE PIN JOINT                               |
| 3                                                        | 290759-001 | HEX KEY, 10mm                             |                                                   |
| 4                                                        | 296274-971 | SOCKET, IMPACT - 14mm HEX BIT             |                                                   |
| 5                                                        | 296253-110 | BURST HEAD ADAPTER BUSHING                | SMALL PIN JOINT - 8" THRU 12" & 200mm THRU 315mm  |
| 6                                                        | 296274-972 | BURST HEAD ADAPTER BUSHING - SMALL        | FOR HB80 & HB125 - 8" THRU 12" & 200mm THRU 315mm |
| 7                                                        | 296274-973 | BURST HEAD ADAPTER BUSHING - LARGE        | FOR HB80 & HB125 - LARGER THAN 12"                |
|                                                          | 913-8775   | BURST HEAD ADAPTER BUSHING - TRACTOR HEAD |                                                   |
| 8                                                        | 296253-040 | ADAPTER LINK - CB                         | HB3038 & HB5058 TO CLAMP-BURSTER                  |
| 9                                                        | 296267-693 | RELIEF VALVE (500-1500 psi)               | FOR USE WITH HB5058 USING 35mm RODS               |
| <b>OPTIONAL SHUT DOWN SYSTEM (HB80 &amp; HB125 ONLY)</b> |            |                                           |                                                   |
| 10                                                       | 296293-617 | STOP CHORD ASSEMBLY                       |                                                   |
| 11                                                       | 296293-618 | SWITCH, REMOTE STOP                       |                                                   |
| 12                                                       | 296293-620 | HARNESS, REMOTE SHUT-DOWN                 |                                                   |

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| SCREW, SHC 3/4-10 x 2.5       | 296279-100 | 38:40-3                   |
| SCREW, SHC, 3/8-16 x 5.0"     | 600086-001 | 63:40-5                   |
| SEAL 2PC 300                  | 296285-260 | 12:30-7                   |
| SEAL 300                      | 296285-261 | 13:30-7                   |
| SEAL PIP, 457                 | 296285-267 | 19:30-7                   |
| SEAL, BEARING                 | 296278-295 | 9:40-23                   |
| SEAL, BEARING                 | 296278-252 | 15:40-27                  |
| SEQUENCE VALVE                | 296276-329 | 16:40-15                  |
| SET SCREW SQ HD 5/8-11 x 3    | 296278-294 | 31:40-23                  |

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| SET SCREW, 1/2-13 x 1         | 98647-404  | 31:30-5                         |
| SHACKLE, 7.0T.                | 251874-001 | 11:50-15                        |
| SHACKLE, 7.0T                 | 251874-001 | 11:50-13                        |
| SHAFT SPINDLE                 | 296278-255 | 1:40-27                         |
| Shear Pin                     | 290798-001 | 8:20-7                          |
| Shear Pin                     | 293896-001 | 13:20-13                        |
| SHORE PLATE - 1/5" GAP        | 296253-210 | 2:50-7                          |
| SHORE PLATE ASSEMBLY          | 296279-089 | 0:50-7                          |
| SHORE PLATE ASSEMBLY          | 296285-455 | 0:50-7                          |
| SHORE PLATE ASSEMBLY          | 296285-456 | 0:50-7                          |
| SHORE PLATE ASSEMBLY          | 296296-956 | 0:50-7                          |
| SHORE PLATE                   | 290836-001 | 1:50-7                          |
| Shore Plate                   | 290836-001 | 15:20-3,                        |
| SHORE PLATE                   | 296279-089 | 6:50-7                          |
| SHOULDER BOLT, .50 x 1.25     | 293899-283 | 12:30-5                         |
| SHOULDER STUD, RATCHET BLOCK  | 296285-275 | 3:30-5                          |
| SHUTTLE VALVE                 | 296260-831 | 36:30-21                        |
| SLEEVE                        | 296274-966 | 6:50-25                         |
| Sling, 4-Leg                  | 296285-441 | 19:20-3,                        |
| SLITTER, GALVANIZED - 2" PIPE | 296253-057 | 13:50-29                        |
| SLITTER, PLASTIC - 2" PIPE    | 296253-212 | 14:50-29                        |
| SOCKET, IMPACT - 14mm HEX BIT | 296274-971 | 2:50-17,<br>4:50-17,<br>4:50-31 |
| Socket-Quick Disconnect       | 241136-001 | 6:20-5,                         |
| SPACER - BOTTOM LIMITER       | 296278-448 | 12:40-7                         |
| SPACER - BOTTOM LIMITER       | 296278-448 | 12:40-15                        |
| SPACER - TOP LIMITER          | 296278-447 | 11:40-7                         |
| SPACER - TOP LIMITER          | 296278-447 | 11:40-15                        |

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| SPINDLE ASSEMBLY                               | 296276-493 | 55:40-5                   |
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| SPINDLE FRAME                                  | 296276-494 | 1:40-23                   |
| SPINDLE LOAD WEDGE                             | 296276-496 | 2:40-23                   |
| SPINDLE LOCKNUT                                | 296278-262 | 8:40-27                   |
| SPINDLE NUT PLATE                              | 296278-253 | 5:40-23                   |
| SPINDLE NUT                                    | 296278-261 | 7:40-27                   |
| SPINDLE PLAIN BEARING HOUSING                  | 296278-266 | 6:40-23                   |
| SPINDLE SHAFT ASSY (SEE PAGE 26)               | 296278-254 | 3:40-23                   |
| SPINDLE SHAFT FLANGE                           | 296278-256 | 2:40-27                   |
| SPINDLE SHAFT KEEPER                           | 296278-257 | 3:40-27                   |
| SPINDLE SPRING CANISTER                        | 296278-259 | 5:40-27                   |
| SPINDLE SPRING                                 | 296278-260 | 6:40-27                   |
| SPINDLE THRUST BEARING BLOCK (INC ITEMS 15-17) | 296276-49  | 9:40-27                   |
| SPINNER ARM                                    | 296285-305 | 15:30-19                  |
| SPINNER ASSEMBLY                               | 296285-316 | 0:30-17                   |
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| SPINNER MANIFOLD                               | 296285-331 | 22:30-21                  |
| SPINNER MOTOR                                  | 296285-304 | 19:30-19                  |
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| SPOOL CAP                                      | 296285-385 | 38:30-3                   |
| SPOOL YOKE                                     | 296285-322 | 2:30-11                   |
| SPRING 4                                       | 296285-440 | 36:30-3                   |
| SPRING CAN RIGHT                               | 296285-285 | 16:30-5                   |
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| STABILIZER FOOT SUB-ASSEMBLY                 | 296276-296 | 25:40-3                   |
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| STANDOFF                                     | 296279-093 | 59:40-5                   |
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| STARTER ROD, NON-BLADED                      | 293867-001 | 9:50-21                   |
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| STEP CONTROL YOKE                            | 296278-449 | 13:40-7                   |
| STEP CONTROL YOKE                            | 296278-449 | 13:40-15                  |
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| SWIVEL ASSY - LONG             | 296267-685 | 10:50-13                  |
| SWIVEL COVER, SPINDLE          | 296278-283 | 20:40-23                  |
| T                              |            |                           |
| TEE 4MJ x 4MJ x 4FJX           | 296279-171 | 23:40-21                  |
| TEE 4MJ x 4MJ x 4FJX           | 296279-171 | 24:40-13                  |
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| TEE, 8MJ x 8MJ x 8MJ           | 296279-108 | 10:40-11,<br>10:40-19     |
| TEE, BULKHEAD 4MJ RUN          | 296296-868 | 27:40-9                   |
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| TRACK ROLLER YCRS-32           | 296285-308 | 21:30-19                  |
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| U                                         |            |                           |
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| Upper Jaw Plate                           | 296260-907 | 5:20-7                    |
| V                                         |            |                           |
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| VALVE, 4 SPOOL STABILIZER                 | 296274-978 | 4:40-7,<br>4:40-15        |
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| VALVE, 5 SPOOL CONTROL - HB125            | 296274-979 | 5:40-15                   |
| VALVE, 5 SPOOL CONTROL                    | 296285-388 | 1:30-11                   |
| VALVE, CHECK, PILOT OPERATED              | 296285-411 | 29:30-21                  |
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| WISE FRAME                    | 296279-023 | 2:40-29                   |
| WISE FRAME                    | 296285-296 | 1:30-9                    |
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| WISE JAW KIT, FRONT           | 296278-477 | 3:50-5                    |
| WISE JAW KIT, REAR            | 296278-478 | 3:50-5                    |
| WISE JAW                      | 296296-821 | 11:30-9                   |
| WISE JAW                      | 296285-297 | 11:30-9                   |
| WISE JAW                      | 296296-821 | 12:30-19                  |
| WISE PIVOT FRAME              | 296279-029 | 11:40-29                  |
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| W                            |            |                           |
| WASHER, 1/2" - HARD          | 296271-785 | 34:40-23,                 |
| WASHER, 1/2" - HARD          | 296271-785 | 18:30-3,                  |
| WASHER, 1/4" - HARD          | 296271-826 | 25:30-3,                  |
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| Washer, 3/8                  | 485-007    | 30:20-3,                  |
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| WASHER, 5/8" - HARD          | 615342-001 | 30:30-3,                  |
| Washer, 7/16 Flat            | 485-009    | 14:20-7                   |
| WASHER, 7/16" - HARD         | 296293-607 | 27:30-19                  |
| WASHER, 7/8" - HARD          | 296287-208 | 43:30-19                  |
| Washer, Flat 1/4             | 485-003    | 23:20-3,                  |
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| WIPER, 1.66 ROD         | 235921-001 | 34:30-5                   |
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