

# MAGNUM SR SERIES

## PARTS MANUAL



**MAGNUM 300SR**  
**MAGNUM 420SR**  
**MAGNUM 480SR**

Bucyrus Equipment Co., Inc.  
Box 156, 209 Main  
Hillsdale, Ks 66036  
1-800-330-0857  
[www.magnumharvesters.com](http://www.magnumharvesters.com)

RE-ORDER NUMBER: SRMANUAL  
REVISION: SR-100020





## **SR SERIES**

# **MAGNUM 300SR/420SR/480SR PARTS MANUAL**

The purpose of this manual is for parts identification of the Magnum SR series harvester. This manual is not to be used for assembly. This manual includes parts lists and illustrations of all available replacement parts for the Magnum SR series harvesters. A table of contents is placed at the beginning of the manual for location of specific parts. Keep this manual available for reference in the shop area.

At the time of publication all information contained in this manual was technically correct. However, all materials and specifications are subject to change without notice.

Comments and suggestions about this manual may be directed to: Bucyrus Equipment Co., Inc., PO Box 156-209 Main, Hillsdale, KS 66036. Phone 1-800-330-0857

©Copyright 2005 BECI. All information contained within this publication is based on the latest product information at the time of publication. Due to constant improvements in the design and quality of production components, some minor discrepancies may result between the actual vehicle and the information presented in this publication. Depictions and/or procedures in this publication are intended for reference use only. No liability can be accepted for omissions or inaccuracies. Any reprinting or reuse of the depictions and/or procedures contained within, whether whole or in part, is expressly prohibited. Printed in U.S.A.

## TABLE OF CONTENTS

|                         |                                               |
|-------------------------|-----------------------------------------------|
| <b>Section 1 .....</b>  | <b>420/480 Floating Heads</b>                 |
| <b>Section 2 .....</b>  | <b>420/480 Solid Heads/Coulter<br/>Option</b> |
| <b>Section 3 .....</b>  | <b>300 Solid Heads/Coulter<br/>Option</b>     |
| <b>Section 4 .....</b>  | <b>Depth Control</b>                          |
| <b>Section 5 .....</b>  | <b>1<sup>st</sup> Conveyor</b>                |
| <b>Section 6 .....</b>  | <b>2<sup>nd</sup> Conveyor</b>                |
| <b>Section 7 .....</b>  | <b>Chop Offs</b>                              |
| <b>Section 8 .....</b>  | <b>Net Dispenser</b>                          |
| <b>Section 9 .....</b>  | <b>Ramps</b>                                  |
| <b>Section 10 .....</b> | <b>Tube Racks</b>                             |
| <b>Section 11 .....</b> | <b>Control Panel Box</b>                      |
| <b>Section 12 .....</b> | <b>Wheel/Hub Assembly</b>                     |
| <b>Section 13 .....</b> | <b>Hydraulic Components</b>                   |
| <b>Section 14 .....</b> | <b>Valve Body</b>                             |
| <b>Section 15 .....</b> | <b>Flow Control Valve</b>                     |

**Section 16 ..... Chop Valve**

**Section 17 ..... Accumulator**

**Section 18 ..... Hydraulic Tank/Increaser**

**Section 19 ..... Hose/Hardline Mounts**

**Section 20 ..... Electrical Components**

## HYDRAULICS

### Parts List

| ITEM | QTY | PART NUMBER             | DESCRIPTION                                                      |
|------|-----|-------------------------|------------------------------------------------------------------|
| 1    | 1   | CVA-1417 Kit            | Selector valve assembly (includes two relief valves and handles) |
| 2    | 1   | FV-7359-D               | Return manifold (includes check valve)                           |
| 3    | 1   | RV-1378                 | Reservoir assembly                                               |
| 4    | 1   | H1001-B                 | Hydraulic increaser                                              |
| 4A   | 1   | HP001-TPSDARSR          | Pump                                                             |
| 5    | 1   | TF-1530-0-3             | Strainer                                                         |
| 6    | 1   | HF001                   | Street elbow                                                     |
| 7    | 1   | HF003                   | Pipe nipple                                                      |
| 8    | 1   | HF001                   | Street elbow                                                     |
| 9    | 1   | HF004                   | Ball valve                                                       |
| 10   | 2   | STC-2520                | Barb fitting                                                     |
| 11   | 1   | HSR-1                   | Hose assembly                                                    |
| 12   | 1   | 480HL100                | Suction pipe                                                     |
| 13   | 1   | 2404-16-24              | Fitting                                                          |
| 14   | 1   | 2404-20-24              | Fitting                                                          |
| 15   | 1   | HSR-8                   | Hose                                                             |
| 16   | 1   | HSR-7                   | Hose                                                             |
| 16A  | 1   | HSR-8                   | Hose                                                             |
| 16B  | 1   | H1-48                   | Hose                                                             |
| 17   | 1   | 6801-20-16              | Fitting (forged)                                                 |
| 18   | 1   | 6801-16-16              | Fitting (forged)                                                 |
| 19   | 1   | 6801-12-12              | Fitting (forged)                                                 |
| 20   | 1   | 6801-16-12              | Fitting (forged)                                                 |
| 21   | 1   | BE-200                  | Tube                                                             |
| 22   | 1   | BE-20                   | Tube                                                             |
| 23   | 1   | HSR-11                  | Hose assembly                                                    |
| 24   | 1   | HSR-10                  | Hose assembly                                                    |
| 25   | 1   | 6801-12-12              | Fitting (forged)                                                 |
| 26   | 1   | 2406-10-16              | Fitting                                                          |
| 27   | 1   | 6400-10-10              | Fitting                                                          |
| 28   | 1   | 6400-10-10              | Fitting                                                          |
| 29   | 1   | HSR-30                  | Hose                                                             |
| 30   | 1   | 6500-06-06              | Fitting                                                          |
| 31   | 1   | GS023120N/0523A/CCP012L | Chop valve actuator                                              |
| 32   | 1   | 480CO114                | Chop valve actuator knob                                         |
| 33   | 1   | 6400-06-06              | Fitting                                                          |
| 34   | 1   | 6600-6                  | #6 Male JIC X #6 Male JIC X #6 Female JIC Swivel                 |
| 35   | 1   | 6400-06-06              | Fitting                                                          |
| 36   | 1   | 6500-06-06              | Fitting (forged)                                                 |
| 37   | 1   | 6400-06-06              | Fitting                                                          |
| 38   | 1   | 6500-06-06              | Fitting (forged)                                                 |
| 39   | 1   | HSR-41                  | Hose assembly                                                    |
| 40   | 1   | BE-24                   | Tube                                                             |
| 41   | 1   | HSR-39                  | Hose assembly                                                    |
| 42   | 4   | FG6400-16-16            | Fitting (forged)                                                 |



## HYDRAULICS

### Parts List

| ITEM | QTY | PART NUMBER                                                                   | DESCRIPTION                          |
|------|-----|-------------------------------------------------------------------------------|--------------------------------------|
| 43   | 2   | 660884                                                                        | Chop cylinder                        |
| 44   | 1   | 6400-16-16                                                                    | Fitting (forged)                     |
| 45   | 1   | HSR-9                                                                         | Hose assembly                        |
| 46   | 1   | FG2501-16-20                                                                  | Fitting (forged)                     |
| 47   | 1   | A13100                                                                        | Accumulator                          |
| 48   | 1   | HSR-5                                                                         | Hose assembly                        |
| 49   | 1   | RST 4604-16-16 R.250                                                          | Fitting (includes 0.025 in. orifice) |
| 50   | 1   | H14516 (300 & 420 ONLY)<br>16MB-16FJ (480 ONLY)                               | Hose assembly                        |
| 51   | 1   | FV-7503                                                                       | Chop valve assembly                  |
| 52   | 1   | HSR-39                                                                        | Hose assembly                        |
| 53   | 1   | BE-24                                                                         | Tube                                 |
| 54   | 1   | HSR-46                                                                        | Hose assembly                        |
| 55   | 1   | 6400-10-10                                                                    | Fitting                              |
| 56   | 1   | FG6602-10-10-10                                                               | Fitting                              |
| 57   | 1   | 2406-10-04                                                                    | Fitting                              |
| 58   | 1   | FG6602-06-06-06                                                               | Fitting (forged)                     |
| 59   | 1   | 6500-06-06                                                                    | Fitting (forged)                     |
| 60   | 1   | HSR-44                                                                        | Tube                                 |
| 61   | 1   | HSR-35                                                                        | Hose assembly                        |
| 62   | 1   | FG2650-06-06-06-06                                                            | Fitting (forged)                     |
| 63   | 1   | 6501-06-06                                                                    | Fitting (forged)                     |
| 64   | 1   | 4503-16-16                                                                    | Fitting                              |
| 65   | 1   | FG6801-06-04                                                                  | Fitting (forged)                     |
| 66   | 1   | FG6801-06-04                                                                  | Fitting (forged)                     |
| 67   | 1   | DS80-X<br>151-2302 (opt. on solid heads)<br>151F2316 (opt. on 30 solid heads) | Hydraulic motor                      |
| 68   | 1   | 6400-10-10                                                                    | Fitting                              |
| 69   | 1   | FG6502-10-10                                                                  | Fitting                              |
| 70   | 1   | HSR-25                                                                        | Hose assembly                        |
| 71   | 1   | BE-D2                                                                         | Tube assembly                        |
| 72   | 1   | 2504-10-10                                                                    | Fitting                              |
| 73   | 1   | HSR-20                                                                        | Hose assembly                        |
| 74   | 1   | 6202-10-10-10                                                                 | Fitting                              |
| 75   | 1   | 6400-10-08                                                                    | Fitting                              |
| 76   | 1   | RVPP-10-NS-8TA 30110                                                          | Cutter head pressure relief valve    |
| 77   | 1   | 6400-10-08                                                                    | Fitting                              |
| 78   | 1   | 6202-10-10-10                                                                 | Fitting                              |
| 79   | 1   | HSR-19                                                                        | Hose assembly                        |
| 80   | 1   | 2504-10-10                                                                    | Fitting                              |
| 81   | 1   | BE-D2                                                                         | Hose assembly                        |
| 82   | 1   | HSR-25                                                                        | Hose assembly                        |
| 83   | 1   | FG6502-10-10                                                                  | Fitting (forged)                     |
| 84   | 1   | 6400-10-10                                                                    | Fitting                              |
| 85   | 1   | FV-6975-GJX                                                                   | Flow control assembly                |
| 86   | 3   | 6400-10-10                                                                    | Fitting                              |



## HYDRAULICS

### Parts List

| ITEM | QTY | PART NUMBER   | DESCRIPTION                                   |
|------|-----|---------------|-----------------------------------------------|
| 87   | 1   | HSR-29        | Hose assembly                                 |
| 88   | 1   | 6500-10-10    | Fitting (forged)                              |
| 89   | 1   | 6202-10-10-10 | Fitting                                       |
| 90   | 1   | 6400-10-08    | Fitting                                       |
| 91   | 1   | 6400-10-10    | Fitting                                       |
| 92   | 1   | HSR-23        | Hose assembly                                 |
| 93   | 1   | HSR16         | Hose assembly                                 |
| 94   | 1   | HSR-15        | Hose assembly                                 |
| 95   | 1   | 6400-10-10    | Fitting                                       |
| 96   | 1   | FV-6975-GJX   | Flow control assembly                         |
| 97   | 1   | HSR-14        | Hose assembly                                 |
| 98   | 1   | 6400-10-10    | Fitting                                       |
| 99   | 1   | DS200-X       | Hydraulic motor                               |
| 100  | 1   | 1910R         | Check valve                                   |
| 101  | 1   | HSR-21        | Hose assembly                                 |
| 102  | 1   | 6400-10-10    | Fitting                                       |
| 103  | 1   | 6400-10-10    | Fitting                                       |
| 104  | 1   | HSR-24        | Hose assembly                                 |
| 105  | 1   | 6400-10-10    | Fitting                                       |
| 106  | 1   | 6400-10-10    | Fitting                                       |
| 107  | 1   | VS4BLBF8-ASM  | Cross Valve (Netting Feed On/Off)<br>ASSEMBLY |
| 107A | 1   | VS4BLBF8      | Cross Valve (Netting Feed ON/Off)             |
| 107B | 1   | GM15662923    | Boot for Net Feed Valve                       |
| 107C | 1   | NC124         | 1" I.D. Plastic Conduit                       |
| 107D | 1   | 33860         | 7/16" x 1 1/4" OD Flat Washer                 |
| 107E | 1   | 36306         | 3/8"-16 Zinc Finish Grade 5 Finished Hex Nut  |
| 107F | 1   | 0115107       | 3/8" X 1 1/4" - 16 BOLT                       |
| 108  |     |               |                                               |
| 109  | 1   | FG6801-10-12  | Fitting (forged)                              |
| 110  | 1   | HSR-12        | Hose assembly                                 |
| 111  | 1   | 6400-10-10    | Fitting                                       |
| 112  | 1   | DS200-X       | Hydraulic motor                               |
| 113  | 1   | 6400-10-10    | Fitting                                       |
| 114  | 1   | 6500-10-10    | Fitting (forged)                              |
| 115  | 1   | HSR-32        | Hose assembly                                 |
| 116  | 1   | 6500-10-10    | Fitting (forged)                              |
| 117  | 1   | 6400-10-10    | Fitting                                       |
| 118  | 1   | 151F2304      | Hydraulic motor                               |
| 119  | 1   | FV-6975-GJX   | Flow control assembly                         |
| 120  | 1   | FG6801-06-04  | Fitting (forged)                              |
| 121  | 1   | HSR-36        | Hose assembly                                 |
| 122  | 1   | 2650-06       | Fitting (forged)                              |
| 123  | 1   | 6501-06-06    | Fitting (forged)                              |
| 124  | 1   | 6400-10-10    | Fitting                                       |
| 125  | 1   | 6500-10-10    | Fitting (forged)                              |



## HYDRAULICS

| Parts List |     |               |                             |
|------------|-----|---------------|-----------------------------|
| ITEM       | QTY | PART NUMBER   | DESCRIPTION                 |
| 126        | 1   | HSR-17        | Hose assembly               |
| 127        | 1   | 6502-10-10    | Fitting (forged)            |
| 128        | 1   | 2500-10-10    | Fitting (forged)            |
| 129        | 1   | BE-A1         | Tube                        |
| 130        | 1   | HSR-22        | Hose assembly               |
| 131        | 1   | 6502-10-10    | Fitting (forged)            |
| 132        | 3   | 6400-10-10    | Fitting                     |
| 133        |     |               |                             |
| 134        | 1   | 6500-10-10    | Fitting (forged)            |
| 135        | 1   | HSR-31        | Hose assembly               |
| 136        | 1   | 6400-10-08    | Fitting                     |
| 137        | 1   | 6502-10-10    | Fitting (forged)            |
| 138        | 1   | HSR-26        | Hose assembly               |
| 139        | 1   | 6400-06-10    | Fitting                     |
| 140        | 1   | HSR-45        | Hose assembly               |
| 141        | 1   | PIDC25S       | Check valve                 |
| 141A       | 2   | 6505-06-06    | Fitting                     |
| 141B       | 1   | 2404-06-04    | Fitting                     |
| 142        | 1   | 6602-06-06-06 | Fitting (forged)            |
| 143        | 2   | 6400-06-08    | Fitting                     |
| 144        | 1   | HSR-47        | Hose assembly               |
| 145        | 2   | BE-B1         | Tube                        |
| 146        | 1   | 2403-06-06    | Fitting                     |
| 147        | 1   | 6602-06-06-06 | Fitting (forged)            |
| 148        | 1   | 6500-06-06    | Fitting (forged)            |
| 149        | 1   | HSR-43        | Hose assembly               |
| 150        | 1   | HSR-40        | Hose assembly               |
| 151        | 1   | 2404-06-06    | Fitting                     |
| 152        | 1   | HSR-38        | Hose assembly               |
| 153        | 1   | HSR-37        | Hose assembly               |
| 154        | 2   | 022633        | Hydraulic cylinder          |
| 154A       | 1   | HSR-48        | Hose assembly               |
| 155        | 1   | HSR-50        | Hose assembly               |
| 156        | 1   | 6400-06-04    | Fitting                     |
| 157        | 1   | 1300100       | Cooling fan hydraulic motor |
| 157A       | 1   | 1300100-F     | Cooling fan                 |
| 157B       | 1   | 1300100-FC    | Cooling fan torque adapter  |
| 158        | 1   | 6400-06-10    | Fitting                     |
| 159        | 1   | HSR-34        | Hose assembly               |
| 160        | 1   | 6400-06-10    | Fitting                     |
| 161        | 1   | 6400-10-10    | Fitting                     |
| 162        | 1   | HSR-27        | Hose assembly               |
| 163        | 1   | 6400-10-10    | Fitting                     |
| 164        | 1   | 6400-06-10    | Fitting                     |
| 165        | 1   | HSR-33        | Hose assembly               |
| 166        | 2   | 6400-06-10    | Fitting                     |
| 167        | 1   | 4601-20-20    | Fitting                     |

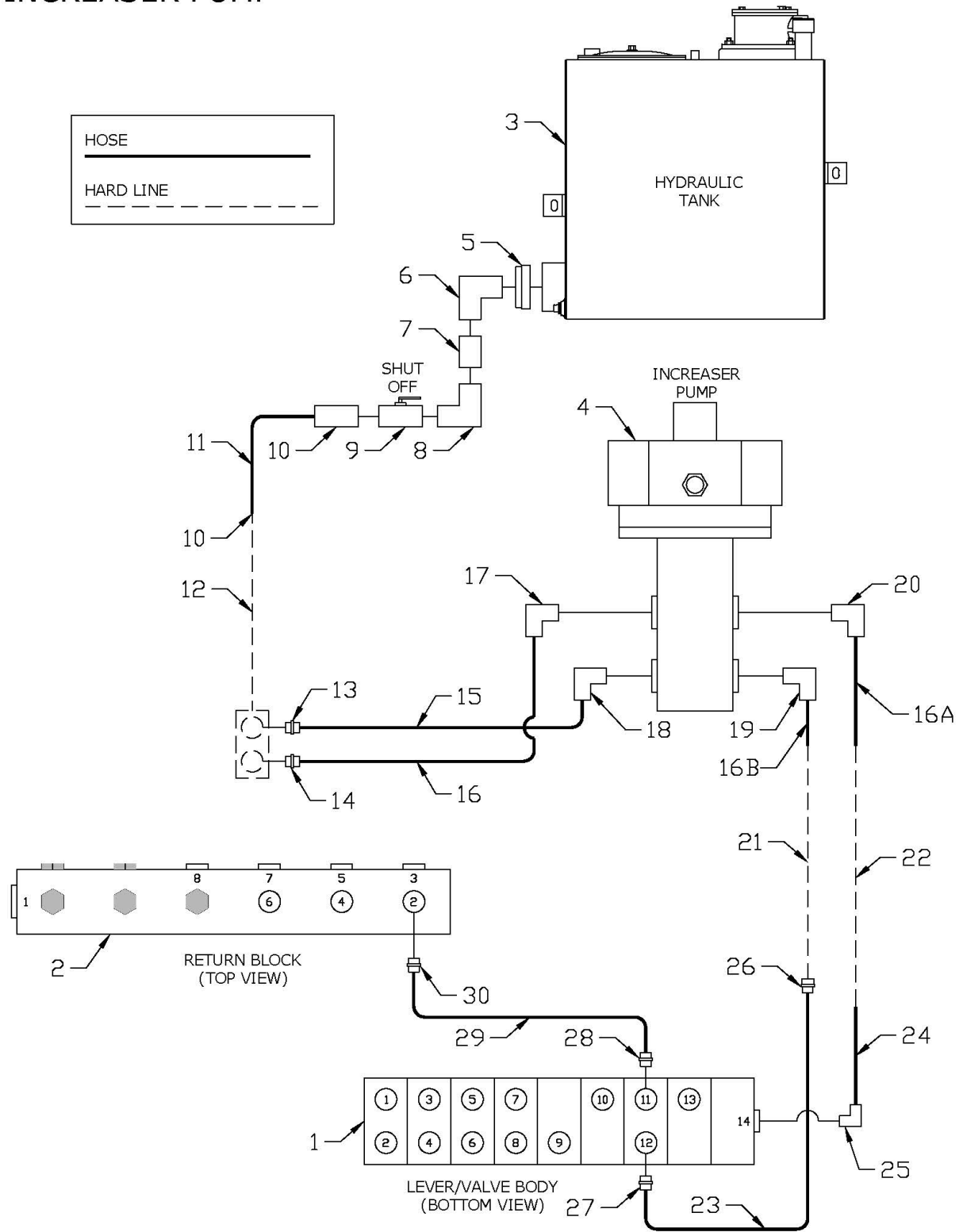


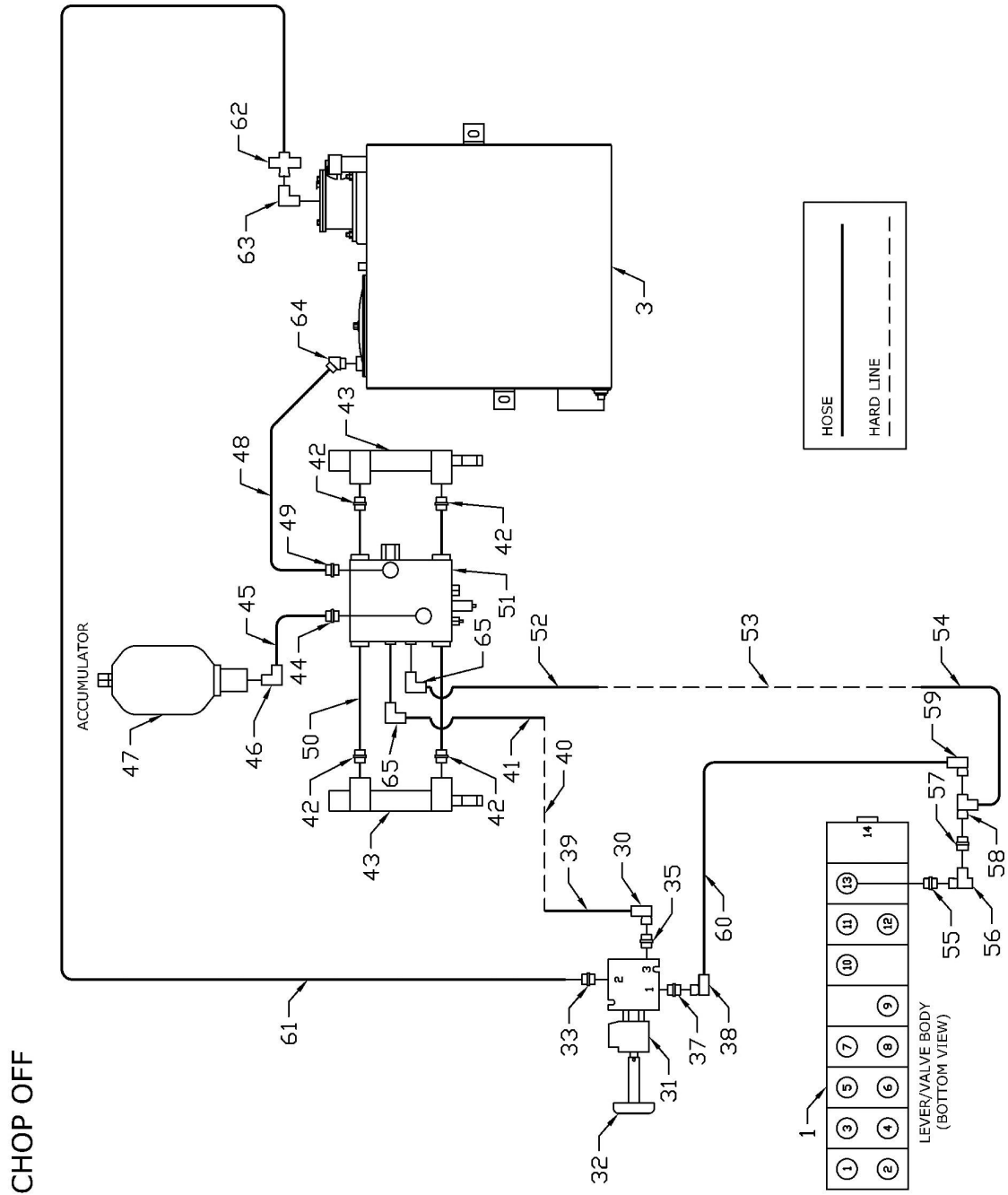
## HYDRAULICS

| Parts List |     |               |                  |
|------------|-----|---------------|------------------|
| ITEM       | QTY | PART NUMBER   | DESCRIPTION      |
| 168        | 1   | HSR-3         | Hose assembly    |
| 169        | 1   | 4501-20-16    | Fitting          |
| 170        | 1   | 65032-2       | Oil cooler       |
| 171        | 1   | 4501-20-16    | Fitting          |
| 172        | 1   | HSR-2         | Hose assembly    |
| 173        | 1   | 4503-20-20    | Fitting          |
| 174        | 1   | 4444-20-20    | Fitting          |
| 175        | 1   | HSR-4         | Hose assembly    |
| 176        | 1   | 4444-20-20    | Fitting          |
| 177        | 1   | 5504-20-20    | Fitting (forged) |
| 178        | 1   | 5400-N-20-3.0 | Pipe             |
| 179        | 1   | 6400-10-12    | Fitting          |
| 180        | 1   | 6504-10-10    | Fitting          |
| 181        | 1   | HSR-13        | Hose assembly    |
| 182        | 1   | 6602-10-10-10 | Fitting          |
| 183        | 1   | 2404-10-08    | Fitting          |
| 184        | 1   | EDC-30S       | Check valve      |
| 185        | 1   | 6505-10-08    | Fitting          |
| 186        | 1   | 6400-10-08    | Fitting          |
| 187        | 1   | HSR-28        | Hose assembly    |
| 188        | 2   | 6502-10-10    | Fitting (forged) |
| 189        | 1   | 1910R         | Check valve      |
| 190        | 1   | 151-3442-X    | Hydraulic motor  |
| 191        | 1   | 6400-10-10    | Fitting          |
| 192        | 1   | 6502-10-10    | Fitting (forged) |
| 193        | 1   | HSR-18        | Hose assembly    |
| 194        | 1   | FG6801-10-12  | Fitting (forged) |
| 195        | 1   | 6801-06-04    | Fitting (forged) |
| 196        | 1   | HSR-49        | Hose assembly    |
| 197        | 1   | 6400-06-10    | Fitting          |

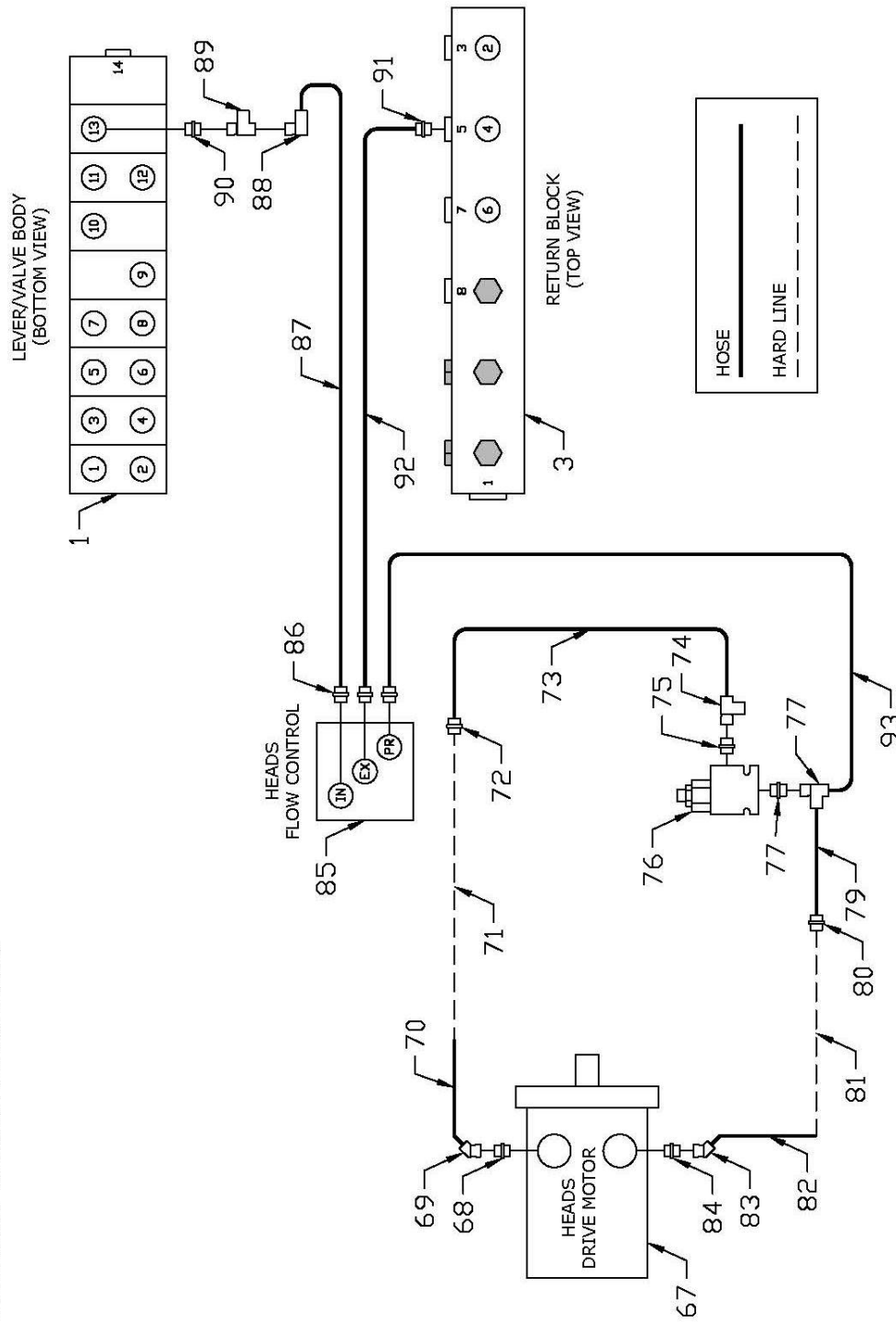


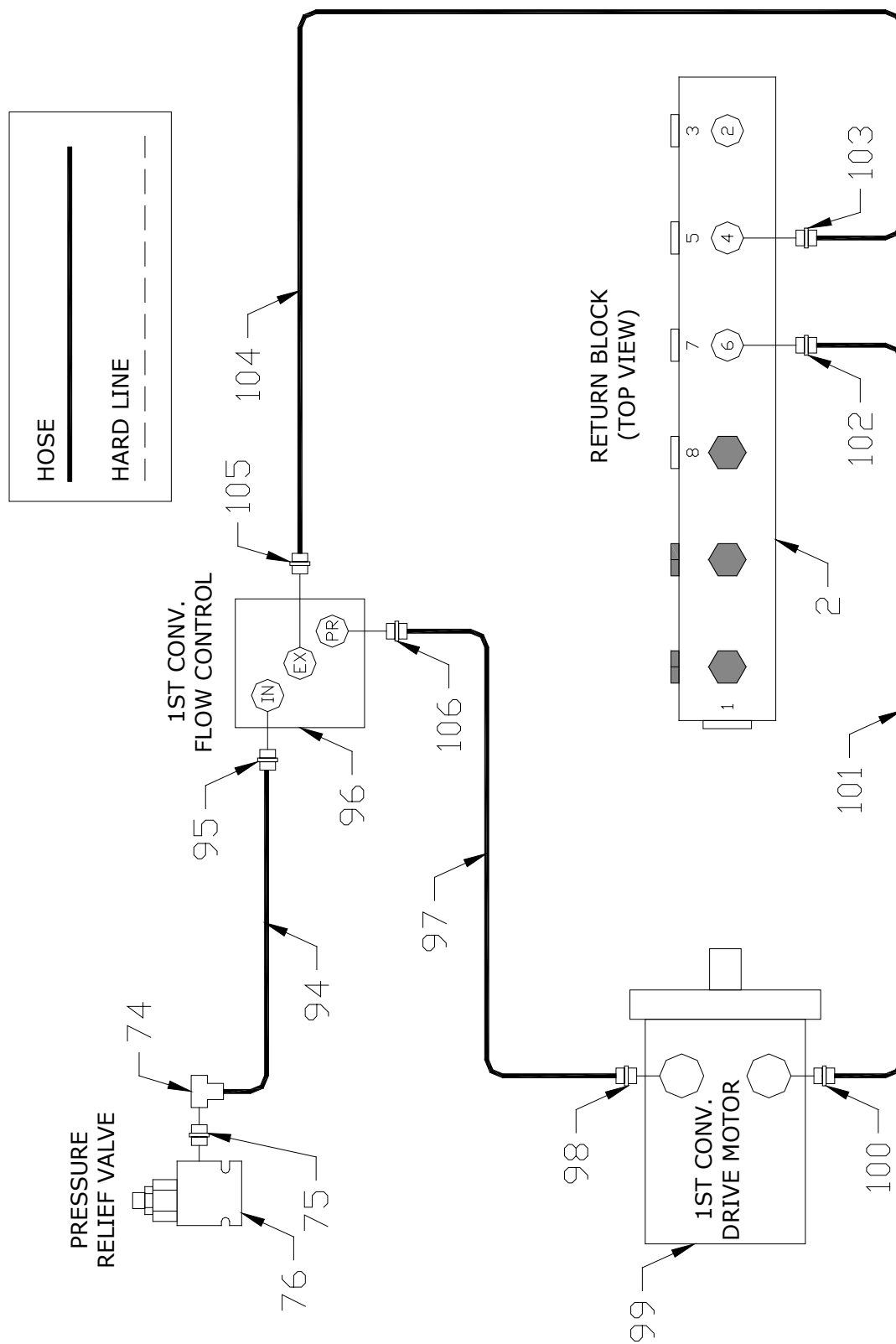
## INCREASER PUMP



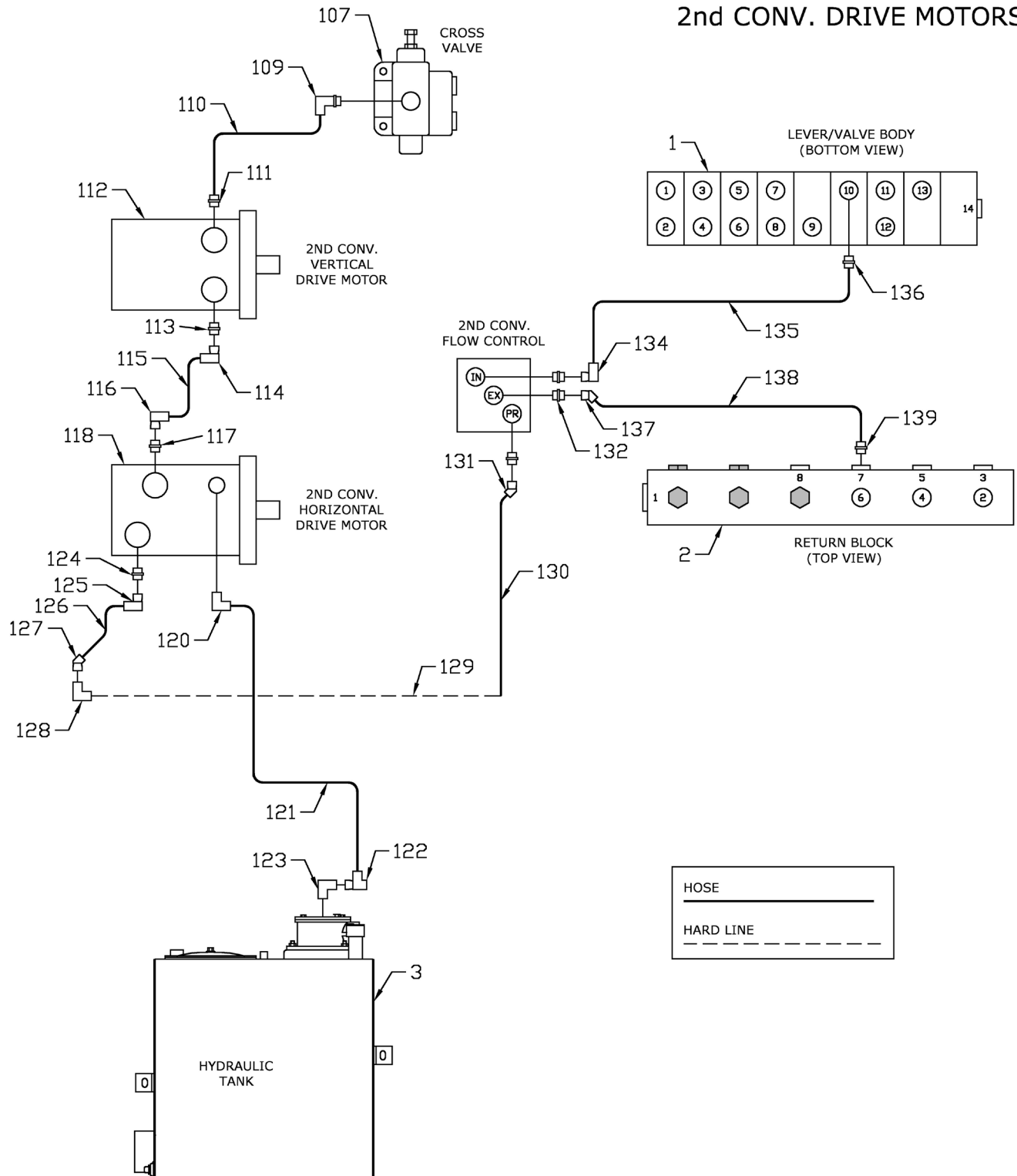


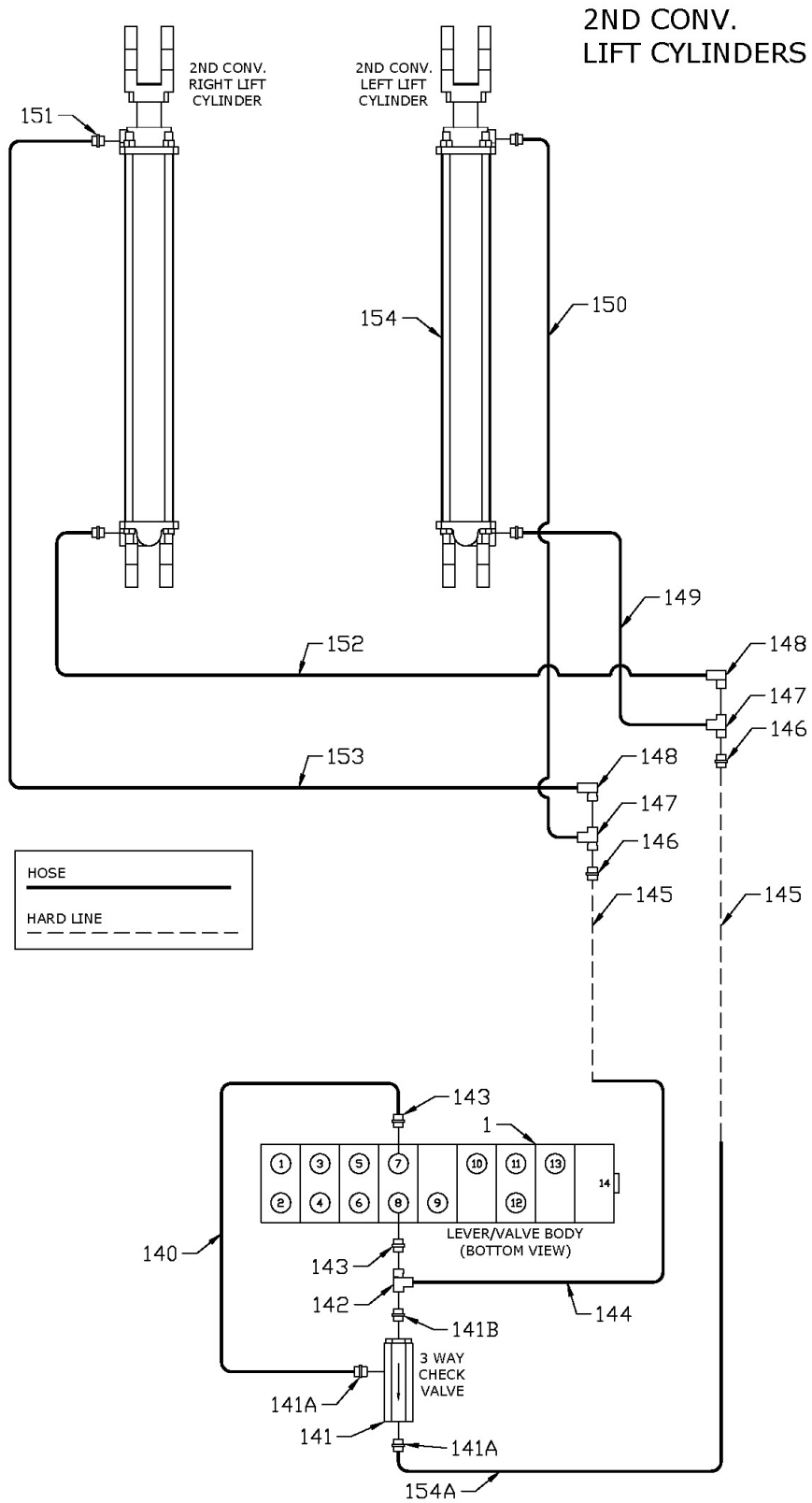
# HEADS DRIVE MOTOR

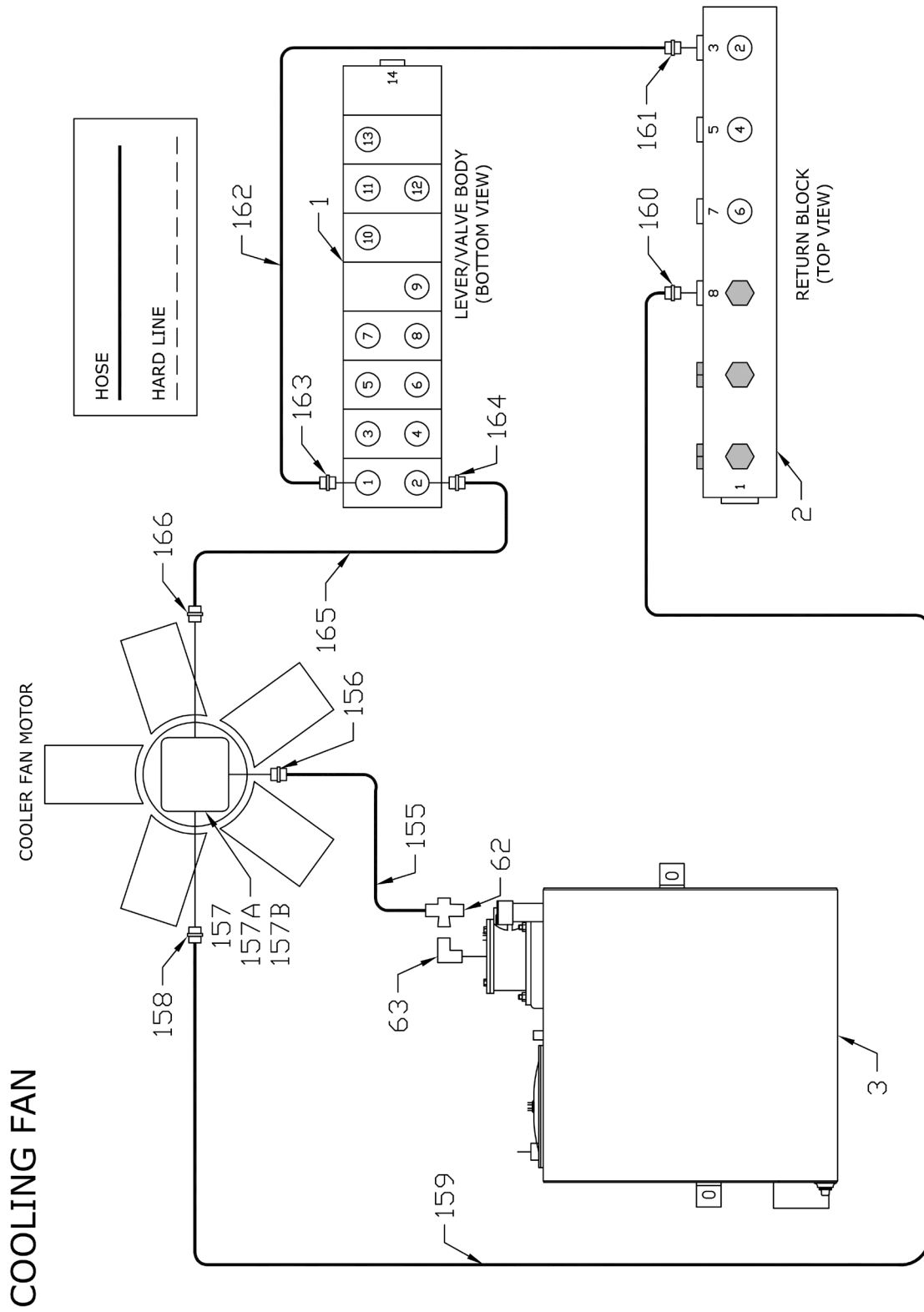




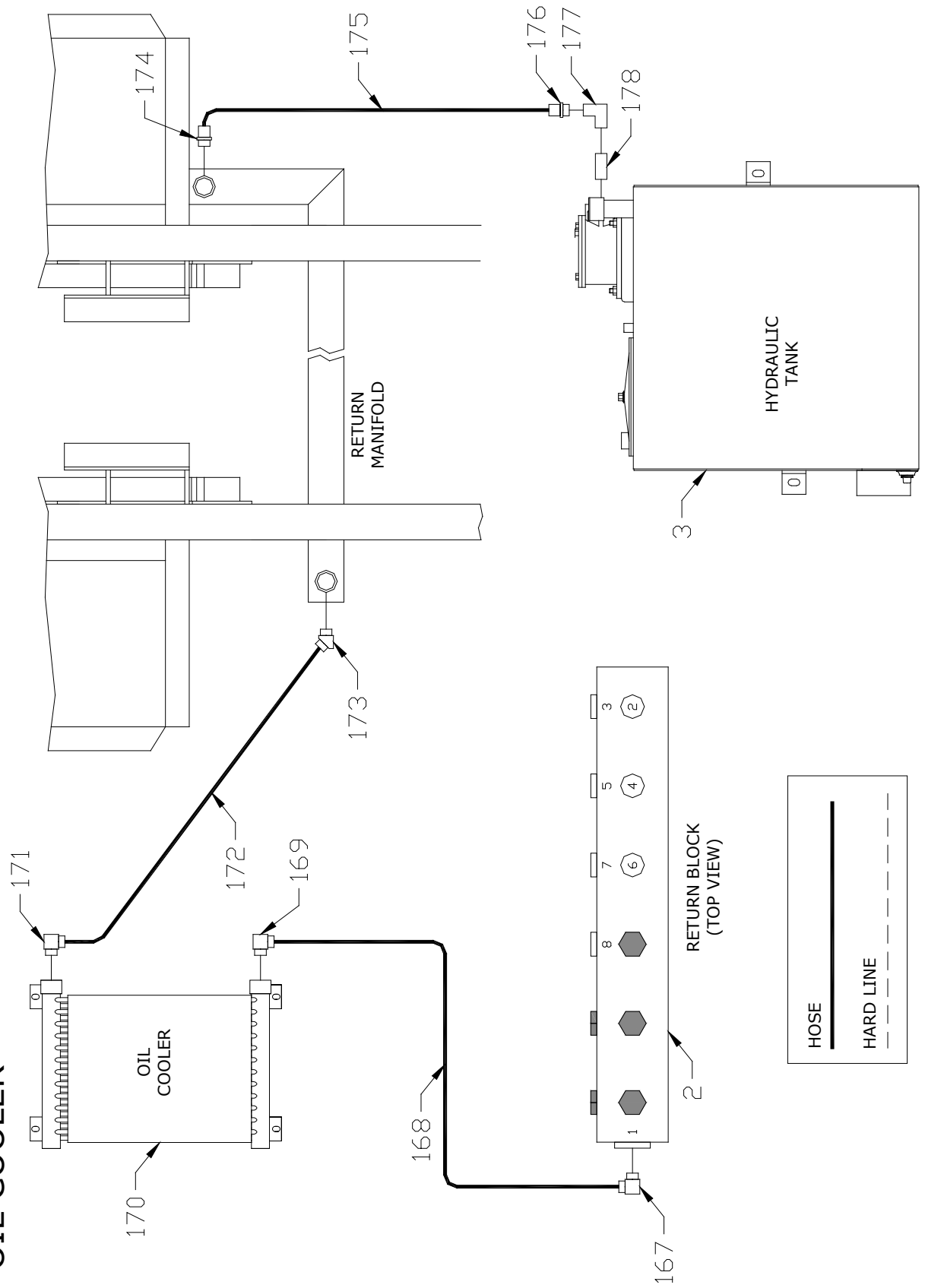
## 2nd CONV. DRIVE MOTORS



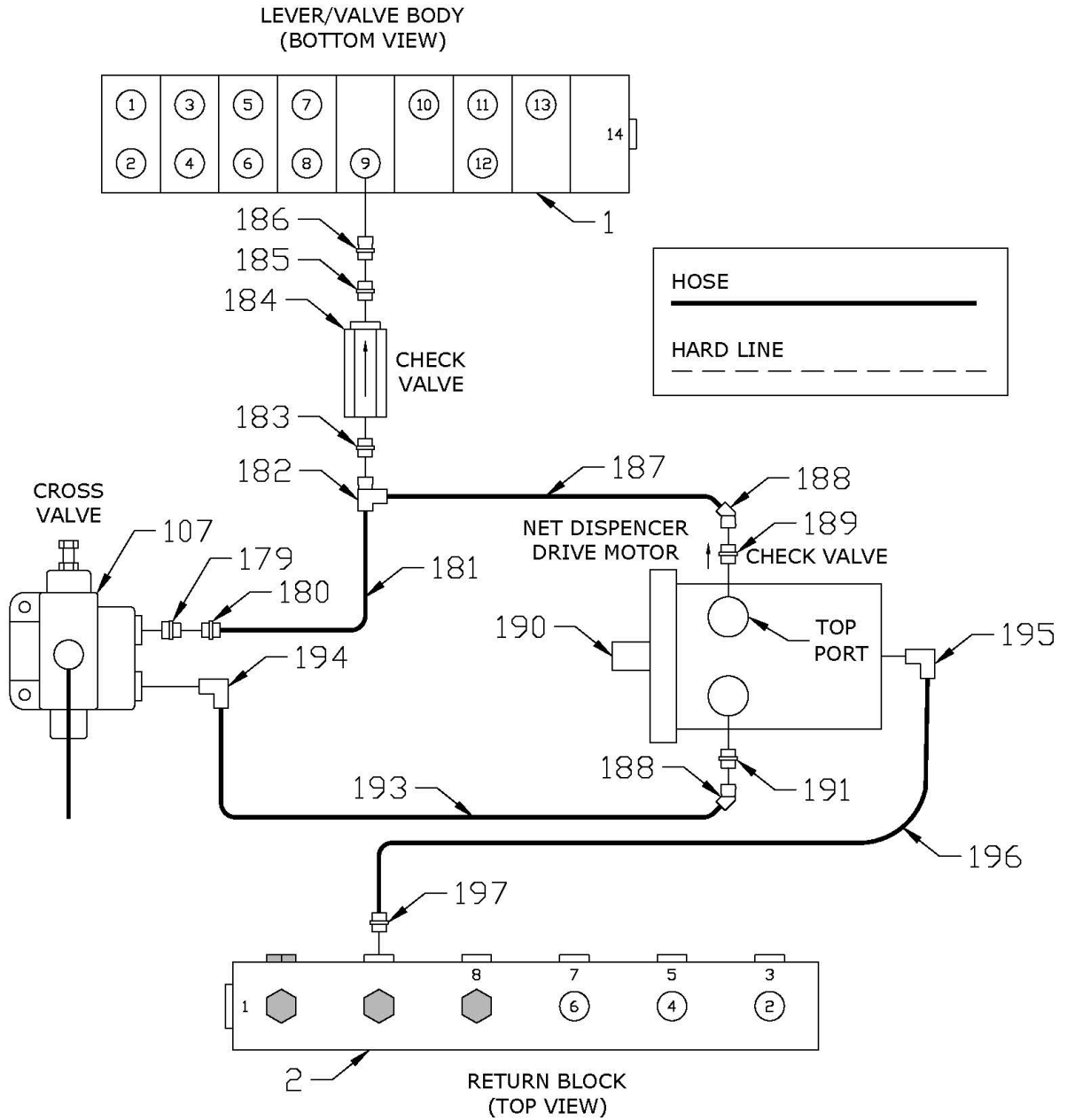




## OIL COOLER



# NET DISPENSER DRIVE MOTOR



---

HYDRAULICS

---

[illegible]