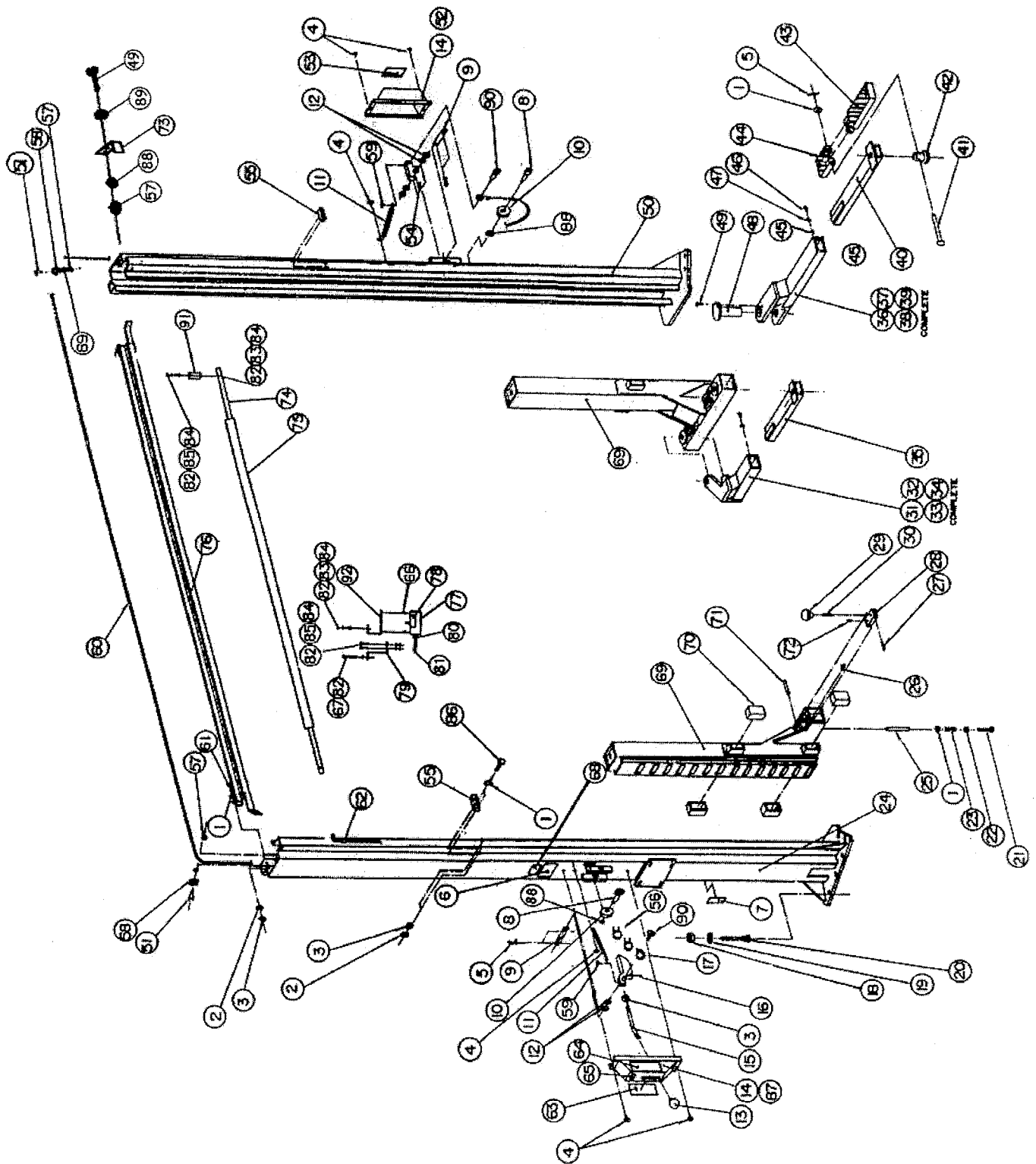


## 8 PARTS MANUAL

### 8.1 LIFT ASSEMBLY

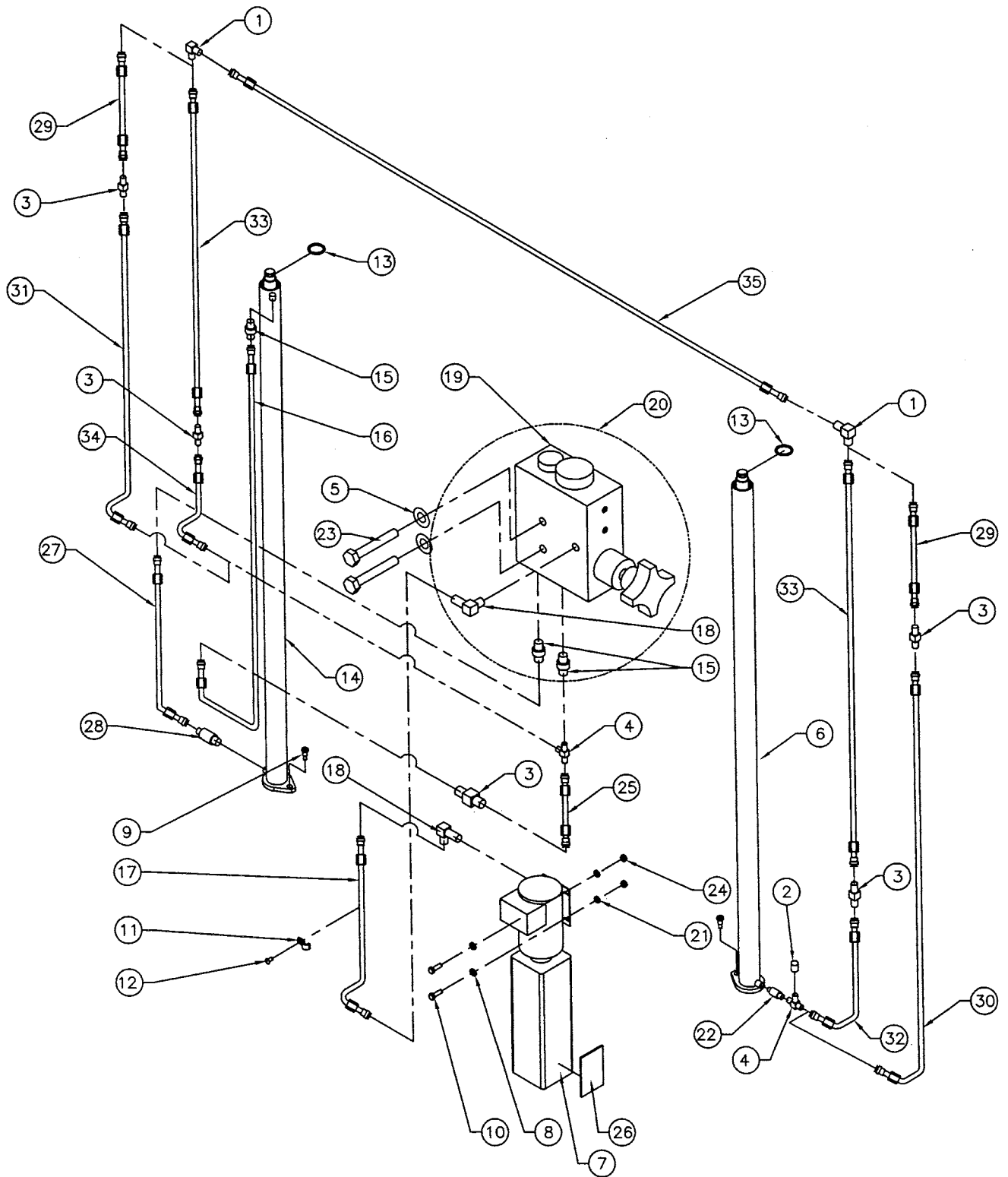


## 8.2 LIFT ASSEMBLY PARTS LIST

| ITEM | QTY. | DESCRIPTION                              | PART # |
|------|------|------------------------------------------|--------|
| 1    | 20   | FLAT WASHER, 1/2"ID SAE                  | 6-0248 |
| 2    | 12   | LOCKWASHER, 1/2"ID                       | 6-0059 |
| 3    | 13   | HEX NUT, 1/2"-13UNC                      | 6-0035 |
| 4    | 6    | SELF TAPPING SCREW, #12 x 1/2"LG.        | 6-1134 |
| 5    | 8    | COTTER PIN, 1/8"DIA. x 1"LG.             | 6-0267 |
| 6    | 1    | ALI/ETL DECAL                            | 6-0996 |
| 7    | 1    | "HYDRAULIC LEVELING" DECAL               | 6-1151 |
| 8    | 2    | SHOULDER BOLT, 3/8"DIA. x 1"LG.          | 6-0206 |
| 9    | 2    | SAFETY PIN                               | 1-0938 |
| 10   | 2    | SAFETY PULLEY                            | 1-0415 |
| 11   | 2    | SAFETY SPRING                            | 1-1115 |
| 12   | 8    | FLAT WASHER, 51/64"ID x 1"OD x 1/16"THK. | 6-0808 |
| 13   | 1    | PLASTIC KNOB                             | 6-1135 |
| 14   | 2    | SAFETY COVER                             | 3-0439 |
| 15   | 1    | SAFETY RELEASE HANDLE                    | 1-1113 |
| 16   | 1    | SAFETY DOG, LEFT SIDE                    | 2-1901 |
| 17   | 1    | 5/32" THIMBLE                            | 6-2074 |
| 18   | 14   | HEX NUT, 3/4"-10UNC                      | 6-0737 |
| 19   | 14   | FLAT WASHER, 3/4"ID                      | 6-0738 |
| 20   | 14   | WEDGE ANCHOR, 3/4"-10UNC x 5 1/2"LG.     | 6-1379 |
| 21   | 4    | HEX BOLT, 1/4"-20UNC x 3/4"LG.           | 6-0178 |
| 22   | 4    | 1/4"ID FENDER WASHER                     | 6-0626 |
| 23   | 4    | PLUNGER SPRING                           | 1-0939 |
| 24   | 1    | TOWER WELDMENT, LEFT SIDE                | 4-0381 |
| 25   | 4    | PIVOT PLUNGER                            | 1-0745 |
| 26   | 4    | GREASE FITTING                           | 6-0000 |
| 27   | 4    | ROLL PIN, 1/8"DIA. x 1"LG.               | 6-0437 |
| 28   | 4    | RACK                                     | 2-0249 |
| 29   | 4    | KNOB                                     | 1-0208 |
| 30   | 4    | THREADED ROD, 3/8"-16UNC x 1 1/2"LG.     | 1-1135 |
| 31   | 1    | OUTER ARM TUBE WELDMENT, RIGHT SIDE      | 3-0561 |
| 32   | 1    | OUTER ARM TUBE WELDMENT, LEFT SIDE       | 3-0562 |
| 33   | 1    | LOCKING ARM ASSEMBLY, RIGHT SIDE         | 4-0464 |
| 34   | 1    | LOCKING ARM ASSEMBLY, LEFT SIDE          | 4-0463 |
| 35   | 2    | SHORT INNER ARM WELDMENT                 | 2-1088 |
| 36   | 1    | OUTER ARM TUBE WELDMENT, RIGHT SIDE      | 3-0560 |
| 37   | 1    | OUTER ARM TUBE WELDMENT, LEFT SIDE       | 3-0559 |
| 38   | 1    | LOCKING ARM ASSEMBLY, RIGHT SIDE         | 4-0462 |
| 39   | 1    | LOCKING ARM ASSEMBLY, LEFT SIDE          | 4-0461 |
| 40   | 2    | INNER ARM WELDMENT                       | 2-1086 |
| 41   | 4    | CENTER PIN                               | 1-1099 |
| 42   | 4    | ADAPTER PIN                              | 1-1091 |
| 43   | 4    | HIGH STEP POSITION ADAPTER               | 3-0582 |
| 44   | 4    | LOW POSITION ADAPTER                     | 3-0583 |
| 45   | 4    | FLATWASHER, 3/8"ID.                      | 6-0062 |
| 46   | 4    | HEX BOLT, 3/8"-16UNC x 3/4"LG.           | 6-0030 |
| 47   | 4    | LOCKWASHER, 3/8"ID.                      | 6-0058 |
| 48   | 4    | ARM PIN                                  | 2-0439 |

| ITEM | QTY. | DESCRIPTION                         | PART # |
|------|------|-------------------------------------|--------|
| 49   | 6    | HEX BOLT, 5/16"-18UNC x 3/4"LG.     | 6-0423 |
| 50   | 1    | TOWER WELDMENT, RIGHT SIDE          | 4-0382 |
| 51   | 2    | SHOULDER BOLT, 3/8"DIA. x 5/8"LG.   | 6-0069 |
| 52   | 1    | SAFETY COVER w/DECALS, RIGHT SIDE   | 0-0203 |
| 53   | 1    | "SAFETY INSTRUCTIONS" DECAL         | 6-0594 |
| 54   | 1    | SAFETY DOG, RIGHT SIDE              | 2-0872 |
| 55   | 4    | CARRIAGE STOP                       | 1-1119 |
| 56   | 2    | WIRE ROPE CLIPS                     | 6-2060 |
| 57   | 4    | HEX NUT, 5/16"-18UNC                | 6-0294 |
| 58   | 3    | SAFETY CABLE PULLEY                 | 1-1116 |
| 59   | 2    | SELF TAPPING SCREW, #10 X 3/8" LG.  | 6-0169 |
| 60   | 1    | SAFETY RELEASE CABLE                | 1-2058 |
| 61   | 4    | HEX BOLT, 1/2"-13UNC x 1 1/2"LG.    | 6-0291 |
| 62   | 3    | 5/8" ELECTRICAL CLIP                | 6-1759 |
| 63   | 1    | "WARNING" DECAL                     | 6-0595 |
| 64   | 1    | "CAUTION" DECAL                     | 6-0592 |
| 65   | 1    | "SAFETY RELEASE" DECAL              | 6-0603 |
| 66   | 2    | 6/32 SCREW (ELECTRICAL BOX)         | 6-1466 |
| 67   | 1    | HEX HD. BOLT 1/4"NC x 2"LG.         | 6-0177 |
| 68   | 1    | SERIAL # TAG                        | 6-1120 |
| 69   | 2    | CARRIAGE WELDMENT                   | 4-0319 |
| 70   | 8    | GLIDE BEARING                       | 2-0772 |
| 71   | 4    | PIVOT PIN                           | 1-0333 |
| 72   | 4    | SET SCREW., 1/4"-20UNC X 1/2"LG.    | 6-0438 |
| 73   | 2    | ANGLE BRACKET                       | 2-1477 |
| 74   | 1    | ACTUATOR BAR                        | 1-1380 |
| 75   | 1    | FOAM GUARD                          | 6-1404 |
| 76   | 1    | CROSSMEMBER WELDMENT                | 3-0440 |
| 77   | 1    | ELECTRICAL UTILITY BOX              | 6-1403 |
| 78   | 1    | MICROSWITCH                         | 6-0916 |
| 79   | 1    | ACTUATOR EXTENSION                  | 1-1379 |
| 80   | 1    | CABLE CONNECTOR                     | 6-1133 |
| 81   | 1    | ELEC. CABLE 12/3 x 117"LG. SOW      | 6-1173 |
| 82   | 5    | HEX HD. NUT 1/4"NC                  | 6-0032 |
| 83   | 3    | HEX HD. BOLT 1/4"NC x 3/4"LG.       | 6-0178 |
| 84   | 6    | LOCKWASHER 1/4" DIA                 | 6-0056 |
| 85   | 3    | HEX BOLT 1/4" NC x 1 1/4" LG.       | 6-0027 |
| 86   | 8    | HEX BOLT, 1/2"-13UNC x 2 1/4"LG.    | 6-0315 |
| 87   | 1    | SAFETY COVER w/DECALS, LEFT SIDE    | 0-0204 |
| 88   | 4    | FLAT WASHER, 5/16" I.D.             | 6-0295 |
| 89   | 4    | LOCKWASHER, 5/16" I.D.              | 6-0296 |
| 90   | 2    | SHOULDER BOLT, 3/8"DIA. x 1 1/2"LG. | 6-0801 |
| 91   | 1    | ACTUATOR MTG. BRACKET               | 1-1378 |
| 92   | 1    | LIMIT SWITCH MTG. BRACKET           | 2-1143 |

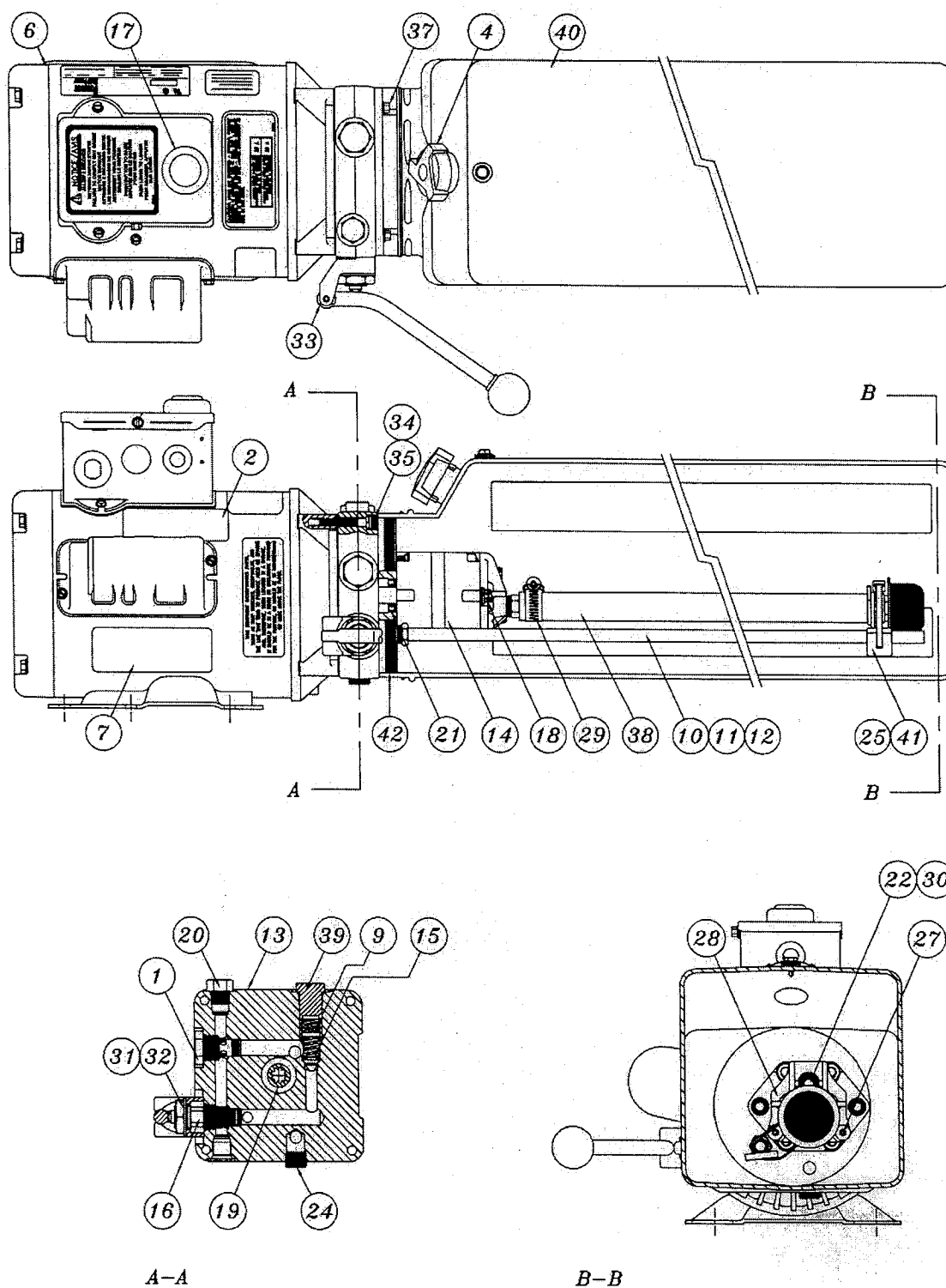
### 8.3 HYDRAULIC SYSTEM



## 8.4 HYDRAULIC SYSTEM PARTS LIST

| ITEM | QTY. | DESCRIPTION                                     | PART # |
|------|------|-------------------------------------------------|--------|
| 1    | 2    | ELBOW BULKHEAD 90°, 3/8"JIC-3/8"JIC             | 6-0012 |
| 2    | 1    | CAP, 3/8"JIC                                    | 6-0021 |
| 3    | 3    | UNION, 3/8"JIC MALE                             | 6-0286 |
| 4    | 2    | TEE, 3/8" SWIVEL NUT JIC MALE                   | 6-0284 |
| 5    | 2    | LOCKWASHER, 1/4" I.D.                           | 6-0056 |
| 6    | 1    | HYDRAULIC CYLINDER ASS'Y, RS                    | 3-0735 |
| 7    | 1    | POWER PACK (8K)                                 | 6-1956 |
|      | 1    | POWER PACK (9K)                                 | 6-1957 |
|      | 1    | POWER PACK (11K)                                | 6-1935 |
| 8    | 4    | FLAT WASHER, 5/16"ID                            | 6-0295 |
| 9    | 2    | SHOULDER BOLT, 1/2" x 5/8"LG.                   | 6-0425 |
| 10   | 4    | HEX BOLT, 5/16"-18UNC x 1"LG.                   | 6-0293 |
| 11   | 7    | TUBE CLAMP                                      | 6-0170 |
| 12   | 7    | ROUND HD. BOLT, 1/4"-20UNC x 3/8"LG.            | 6-1353 |
| 13   | 2    | CIRCLIP                                         | 6-0340 |
| 14   | 1    | HYDRAULIC CYLINDER ASS'Y, LS                    | 4-0289 |
| 15   | 2    | ADAPTER, 1/4"NPT MALE - 3/8"JIC MALE            | 6-0276 |
| 16   | 1    | HYDRAULIC TUBE ASS'Y, LS                        | 2-0887 |
| 17   | 1    | HYDRAULIC TUBE ASS'Y (VALVE BLOCK TO POWERPACK) | 2-1140 |
| 18   | 2    | ELBOW 90°, 9/16"SAE M-3/8"JIC M                 | 6-0804 |
| 19   | 1    | HYDRAULIC VALVE BLOCK                           | 6-1362 |
| 20   | 1    | HYDRAULIC VALVE BLOCK ASS'Y (C/W FITTINGS)      | 6-2623 |
| 21   | 4    | LOCKWASHER, 5/16"ID                             | 6-0674 |
| 22   | 1    | ADAPTER, 3/8"NPT - 3/8"JIC x 2 1/4"LG.          | 6-0345 |
| 23   | 2    | HEX HD. BOLT, 1/4"-20UNC x 1 3/4"LG.            | 6-0028 |
| 24   | 4    | HEX NUT, 5/16"-18UNC                            | 6-0294 |
| 25   | 1    | HYDRAULIC TUBE ASS'Y                            | 1-2436 |
| 26   | 1    | "LIFT OPERATION" DECAL (8K)                     | 6-1265 |
|      | 1    | "LIFT OPERATION" DECAL (9K)                     | 6-1639 |
|      | 1    | "LIFT OPERATION" DECAL (11K)                    | 6-1266 |
| 27   | 1    | HYDRAULIC TUBE ASS'Y                            | 2-0886 |
| 28   | 1    | VELOCITY FUSE, 4GPM                             | 6-0422 |
| 29   | 1    | HYDRAULIC TUBE ASS'Y (2-PIECE TOWER)            | 2-0878 |
| 30   | 1    | HYDRAULIC TUBE ASS'Y, RS (2-PIECE TOWER)        | 2-1876 |
| 31   | 1    | HYDRAULIC TUBE ASS'Y, LS (2-PIECE TOWER)        | 2-1877 |
| 32   | 1    | HYDRAULIC TUBE ASS'Y, RS (12' & 14' TOWER)      | 2-1874 |
| 33   | 1    | HYDRAULIC TUBE ASS'Y, (12' TOWER)               | 2-1873 |
|      | 1    | HYDRAULIC TUBE ASS'Y, (14' TOWER)               | 2-1875 |
| 34   | 1    | HYDRAULIC TUBE ASS'Y, LS                        | 2-1872 |
| 35   | 1    | HYDRAULIC TUBE ASS'Y (8/9K)                     | 2-1537 |
|      | 1    | HYDRAULIC TUBE ASS'Y (11K ASS'Y)                | 2-0959 |
|      | 1    | HYDRAULIC TUBE ASS'Y (11K SYM)                  | 2-1286 |
|      |      | GLAND SEAL KIT, RIGHT SIDE (8/9/11K)            | 0-0551 |
|      |      | PISTON SEAL KIT, RIGHT SIDE (8/9/11K)           | 0-0159 |
|      |      | GLAND SEAL KIT, LEFT SIDE (8/9/11K)             | 0-0206 |
|      |      | PISTON SEAL KIT, LEFT SIDE (8/9/11K)            | 0-0160 |

# 8.5 POWER PACK: #6-1934 208-230V/1PH/60Hz



## 8.6 POWER PACK PARTS LIST: #6-1934 - 208-230V/1PH/60Hz

| ITEM | QTY. | DESCRIPTION                           | PART # |
|------|------|---------------------------------------|--------|
| 1    | 1    | VALVE CARTRIDGE CHECK                 | 6-1087 |
| 2    | 1    | LABEL INSTALLATION AUTOHOIST          | 6-2136 |
| 4    | 1    | BREATHER CAP & BLADDER                | 6-1376 |
| 6    | 1    | MOTOR AC 208-230V. 2HP/1PH/60Hz, BLK  | 6-2474 |
| 7    | 1    | LABEL WARNING AUTOHOIST               | 6-2149 |
| 9    | 1    | SPRING 0.480" x 0.063" x 0.42" COMP   | 6-2151 |
| 10   | 1    | RETURN HOSE 3/8" OD x 21.5"           | 6-2152 |
| 11   | 1    | COMPRESSION TUBE NUT                  | 6-2153 |
| 12   | 1    | COMPRESSION TUBE SLEEVE               | 6-2154 |
| 13   | 1    | ENDHEAD UNIVERSAL AUTOHOIST           | 6-2155 |
| 14   | 1    | PUMPASSY 2.5 CC/REV. SHORT SPLINE     | 6-1958 |
| 15   | 1    | RELIEF ASSEMBLY FIXED 170 BAR         | 6-1317 |
| 16   | 1    | VALVE CARTRIDGE RELEASE MANUAL        | 6-0880 |
| 17   | 1    | WIRING ASSEMBLY AC 1PH FENNER         | 6-2473 |
| 18   | 2    | BOLT 5/16"-24 x 3.00" TORX G8         | 6-1090 |
| 19   | 1    | COUPLING SAE 9T-20/40 1.260"          | 6-0774 |
| 20   | 1    | PLUMBING PLUG 9/16" SAE               | 6-2157 |
| 21   | 1    | SEAL SHAFT 0.500" x 1.00" x 0.25"     | 6-2158 |
| 22   | 1    | WASHER 0.338" x 0.625" x 0.060" STEEL | 6-2159 |
| 24   | 1    | PLUMBING PLUG 3/8" NPT                | 6-2161 |
| 25   | 1    | PLUMBING MAGNET                       | 6-2162 |
| 27   | 2    | SCREW TAPTITE M6 x 1.0 12MM TORX      | 6-2164 |
| 28   | 1    | COVER ASSY SUCTION                    | 6-2165 |
| 29   | 1    | PLUMBING CLAMP HOSE ADJ. INLET        | 6-2166 |
| 30   | 1    | BOLT 5/16"-18 x 1.00" SHCS            | 6-1392 |
| 31   | 1    | NUT 3/4"-16 x 1" HEX x 0.250" STEEL   | 6-2167 |
| 32   | 1    | WASHER 3/4" INT. TOOTH LOCK           | 6-2168 |
| 33   | 1    | BRACKET - HANDLE ASSY REL BLACK       | 6-0776 |
| 34   | 4    | BOLT M6 x 1.0 35MM SOC HD             | 6-2169 |
| 35   | 4    | WASHER 1/4" LOCK HI-COLLAR            | 6-2170 |
| 37   | 4    | BOLT #12-24 x 0.50" HEX WSHRHD        | 6-1091 |
| 38   | 1    | PLUMBING ASSY INLET 17.24 (3)         | 6-0786 |
| 39   | 1    | RELIEF VALVE CAP ASSEMBLY             | 6-1089 |
| 40   | 1    | TANK PLASTIC 6.7 OS 22.50" BLK        | 6-1399 |
| 41   | 1    | CABLE TIE 8" LONG WHITE               | 6-1846 |
| 42   | 1    | O-RING 2-348 BUNA                     | 6-0875 |

## Product Manual Approval Form

Issued by: ALEX CERDA

Date: May 6/02

Manual # 6-1300, 6-1301

Manual Date: MAY 2002

Product: 8144V 8K 2POST ASYM HYDRAULIC EQUALIZED

Approval: 

Engineering Representative

Details of Change:

CHANGING DESCRIPTION FROM "ARM LOCKS" TO "ARM  
RESTRAINT".

REPLACED PART # 6-2156 TO 6-2473 AND  
6-2139 TO 6-2474 ON Pg. 29