



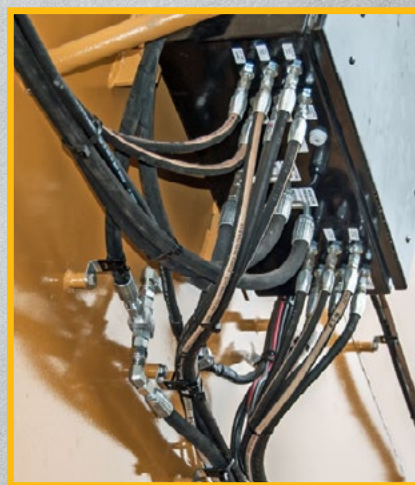
SPECIALTY HAULAGE SOLUTIONS FOR CONSTRUCTION AND MINING

## PRODUCT INFORMATION BULLETIN

### DUAL PILOT SOURCE KIT INSTALLATION

#### *Applicable to:*

- The dual pilot source kit is applicable to all DiSCS® systems



# PRODUCT INFORMATION BULLETIN

## Dual Pilot Source Kit Installation

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### DESCRIPTION

The dual pilot source kit is applicable to all DiSCS systems. With the installation of this kit, the DiSCS solenoid control box receives pressure from either the water pump (hoist circuit) or the tractor pilot oil, depending on which source has the higher pressure at a given moment. The result is a more reliable source of constant high pressure and much shorter spray head closing delay times (required for GPS mode).

## CAUTION

Some MEGA kits contain bulk hose and loose fittings. **DO NOT** use the Installation Drawing measurements to fabricate hoses. Failure to perform actual measurements on the unit for hose fabrication will result in unusable hose assemblies. All hose lengths must be determined by using bulk hose and fittings "mocked up" on the actual machine. Perform on-machine mock-ups to determine correct lengths, fitting clocking and routing for your specific configuration. The MEGA kit only contains enough bulk hose and fittings to fabricate hoses once.

### PARTS LIST

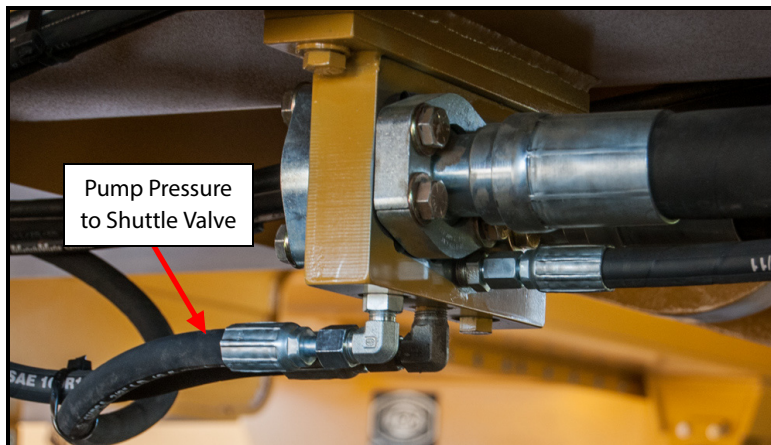
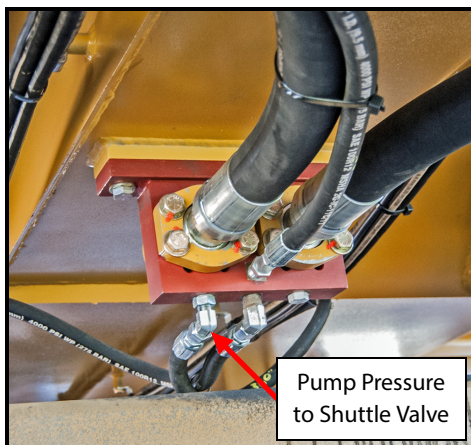
The dual source pilot kit includes:

- 2 check valves (306942)
- 2 shuttle valve (306941)
- 2 ORS/ORB -6 90° fittings (355137)
- Hose Assemblies (046215-01, 046215-07, and 046215-08)
- Tee (for units equipped with older hose reel models that use the same pressure port on the hoist manifold)

Refer to the Installation Drawing at the end of this document for more details.

### INSTALLATION

1. Route, measure, manufacture, and install Hose Assembly 046215-07 to the hoist manifold pressure port as shown below and in the Installation Drawings.



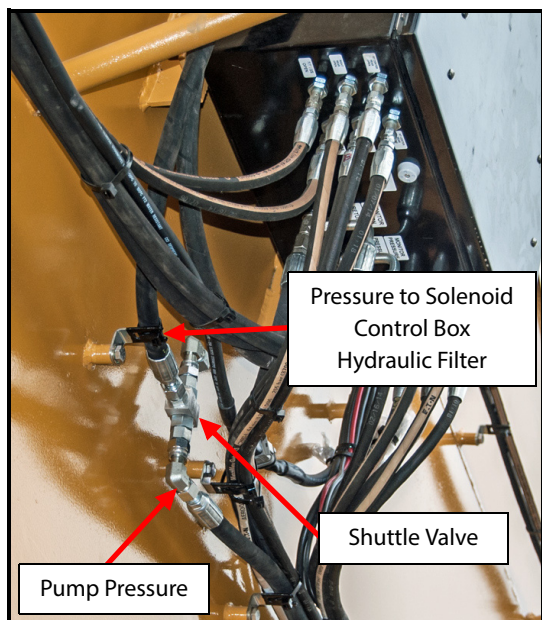
## NOTE

If you have an older model hose reel that connects to this pressure port at the hoist manifold, use the supplied Tee instead of the ORS/ORB fitting for the hose connection.

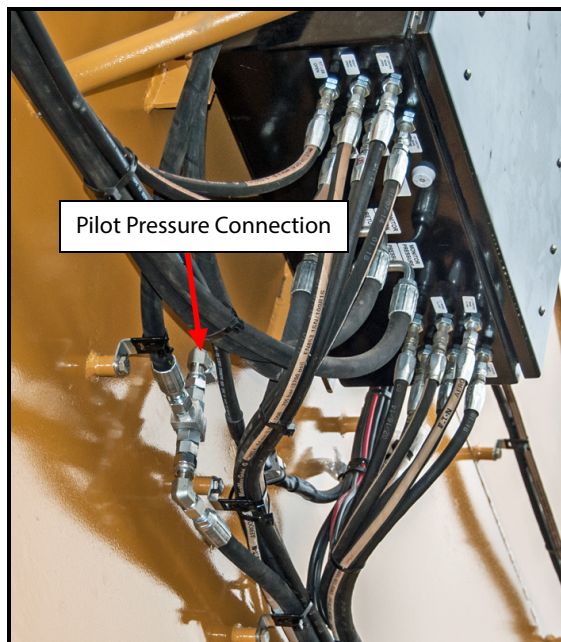
## **PRODUCT INFORMATION BULLETIN**

### **Dual Pilot Source Kit Installation**

2. Assemble check valves and shuttle valve, and install hose assembly 046215-01 from the solenoid control box hydraulic filter to the shuttle valve outlet as shown below and in the Installation Drawings.

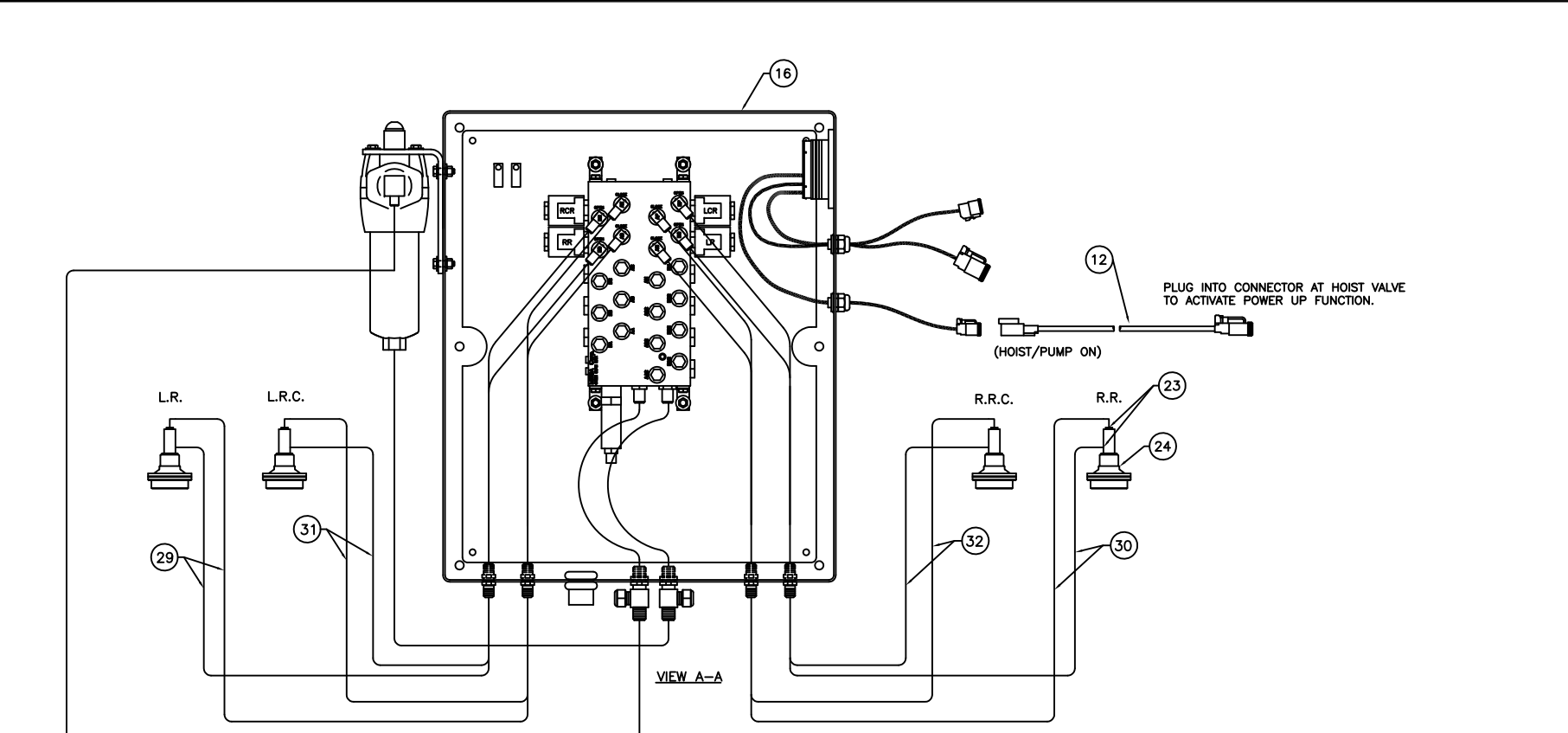


3. Route, measure, fabricate, and install pilot pressure hose assembly 046215-08 from the tractor pilot oil source to the shuttle valve as shown below and in the Installation Drawings.



BILL OF MATERIAL

| No.    | Part No.  | PART NAME                          | QTY | REF No. | WT.  |
|--------|-----------|------------------------------------|-----|---------|------|
| 1      | 047080    | CONTROL BOX MOUNTING ASSEMBLY      | 1   |         | STK  |
| 2      | 042073    | GROUND STRAP                       | 1   |         | STK  |
| 3      | 047094    | JOY STICK MOUNTING ASSEMBLY        | 1   |         | STK  |
| 4      | 305251    | CABLE TIE 12" X 100PCS             | 1   |         | SUP  |
| 5      | 046085    | CABLE ASSEMBLY 30' RED             | 1   |         | REF  |
| 6      | 046086    | CABLE ASSEMBLY 20' BLACK           | 1   |         | REF  |
| 7      | 306646    | C.S. BUTION HD. M10X1.5X40MM       | 4   |         | STK  |
| 8      | 305238    | LADDER CLIP 90°                    | 10  |         | STK  |
| 9      | 306097    | SPLIT LOOM 1/4"                    | 15' |         | SUP  |
| 10     | 303058    | RUBBER COATED CLAMP, 5/8"          | 2   |         | SUP  |
| 11     | 355506    | GROMMET, 1"                        | 3   |         | SUP  |
| 12     | 041196    | CABLE ASSEMBLY 28'                 | 1   |         | STK  |
| 13     | 306941    | SHUTTLE VALVE, VONBERG -6 ORB      | 1   |         | STK  |
| 14     | 306942    | CHECK VALVE, VONBERG -60RS -60RB   | 2   |         | STK  |
| 15     | 046785    | WATER LEVEL SENSOR COVER           | 1   |         | REF  |
| 16     | 046860    | SOL. BOX ASSY 4 HEAD, CARBON       | 1   | 046860  | REF  |
| 046216 | 046861    | SOL. BOX ASSY 4 HEAD, S.S.         | 1   | 046860  | REF  |
| 046217 | 046861    | SOL. BOX ASSY 4 HEAD, S.S.         | 1   | 046860  | REF  |
| 047339 | 304471    | PIN BLANK                          | 6   |         | STK  |
| 18     | 304284    | 2 COND. RECEPTACLE                 | 2   |         | STK  |
| 19     | 304285    | 2 COND. PLUG                       | 1   |         | STK  |
| 20     |           |                                    |     |         |      |
| 21     | 306700    | MINI CONTROL KIT                   | 1   |         | STK  |
| 22     | 352137    | ORF/ORB -6 90°                     | 2   |         | STK  |
| 23     | 352436    | PIPE/JIC 4-4S 90°                  | 8   |         | STK  |
| 046215 | 025610    | SPRAY HEAD, HD. (ALUMINUM)         | 4   |         | STK  |
| 046216 | 042290    | SPRAY HEAD, HD. (ANODIZED)         | 4   |         | STK  |
| 046217 | 047062    | SPRAY HEAD, HD. (FULL STAINLESS)   | 4   |         | STK  |
| 047339 | 046121    | SPRAY HEAD, HD. (NICKEL/STAINLESS) | 4   |         | STK  |
| 25     | 354954    | TEE ORFS -6                        | 1   |         | STK  |
| 26     | 352442    | PIPE/JIC 6-6S 90°                  | 1   |         | STK  |
| 27     | 046215-01 | HOSE ASM                           | 1   |         | SHTS |
| 28     | 046215-02 | HOSE ASM                           | 1   |         | SHTS |
| 29     | 046215-03 | HOSE ASM                           | 1   |         | SHTS |
| 30     | 046215-04 | HOSE ASM                           | 2   |         | SHTS |
| 31     | 046215-05 | HOSE ASM                           | 2   |         | SHTS |
| 32     | 046215-06 | HOSE ASM                           | 2   |         | SHTS |
| 33     | 046215-07 | HOSE ASM                           | 1   |         | SHTS |
| 34     | 046215-08 | HOSE ASM                           | 1   |         | SHTS |



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TOLERANCE: UNLESS OTHERWISE SPECIFIED  
 3 PLACES ± 0.010 | 2 PLACES ± 0.03 | ANGULAR ± 1°

NAME OF JOB: CAT 777G MIT20 W/HMON  
 DRAWING TITLE: IN CAB CONTROL BOX & SOL. BOX W/4 HEADS INSTALL  
 SCALE: 3/4=1-0 | DATE: 5-3-12 | DWG. No.:  
 DRAWN BY: DMG | SHEET 2 OF 5 | 046215