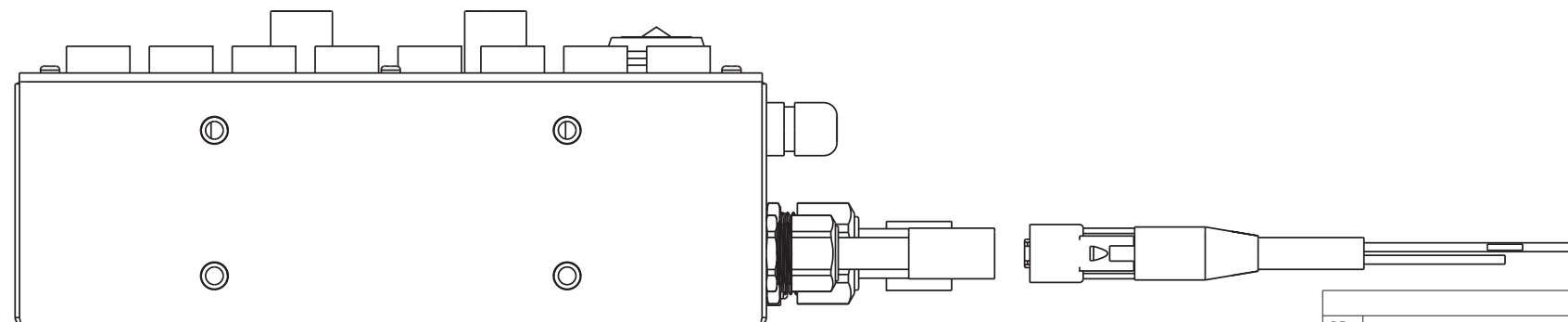
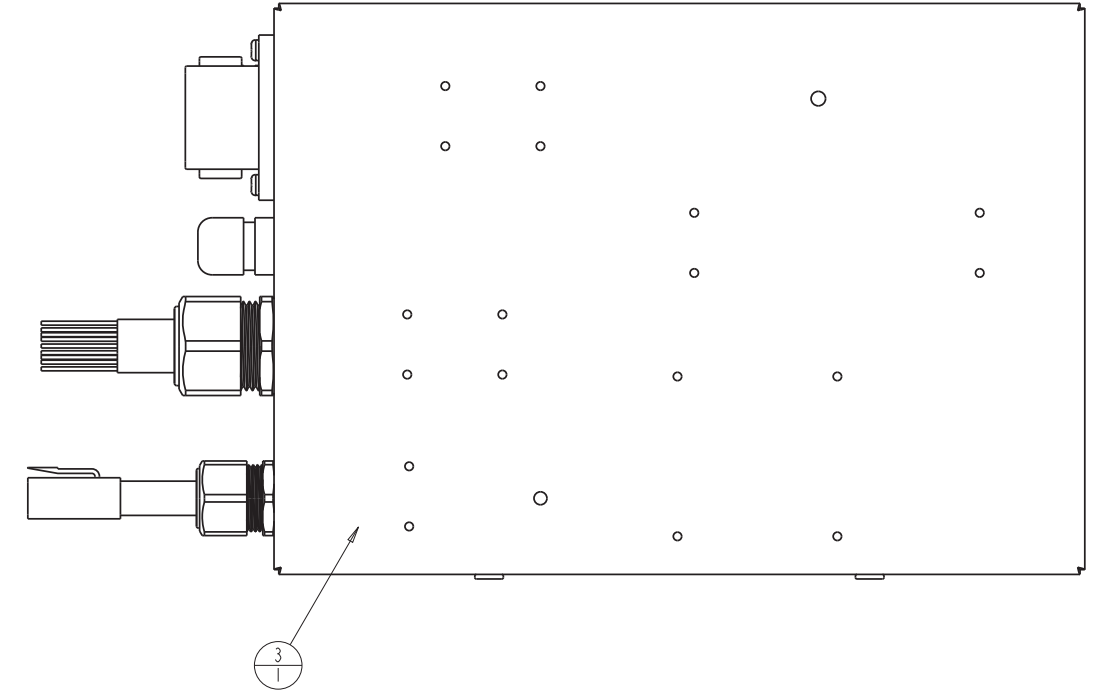
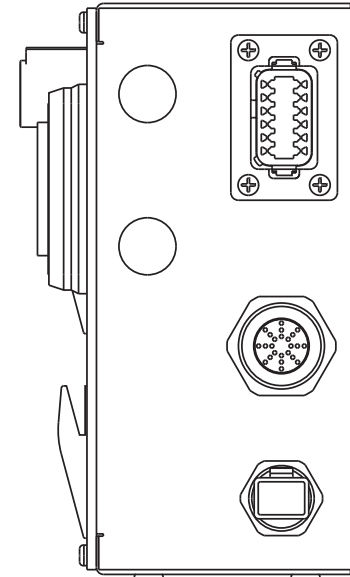
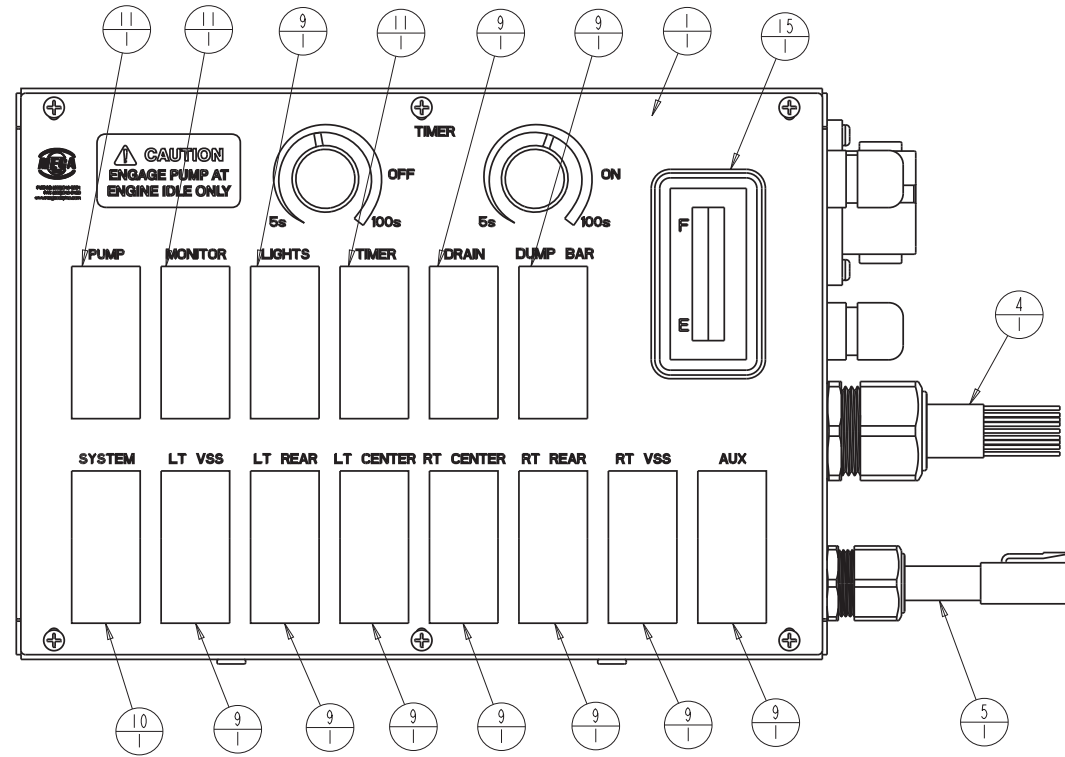
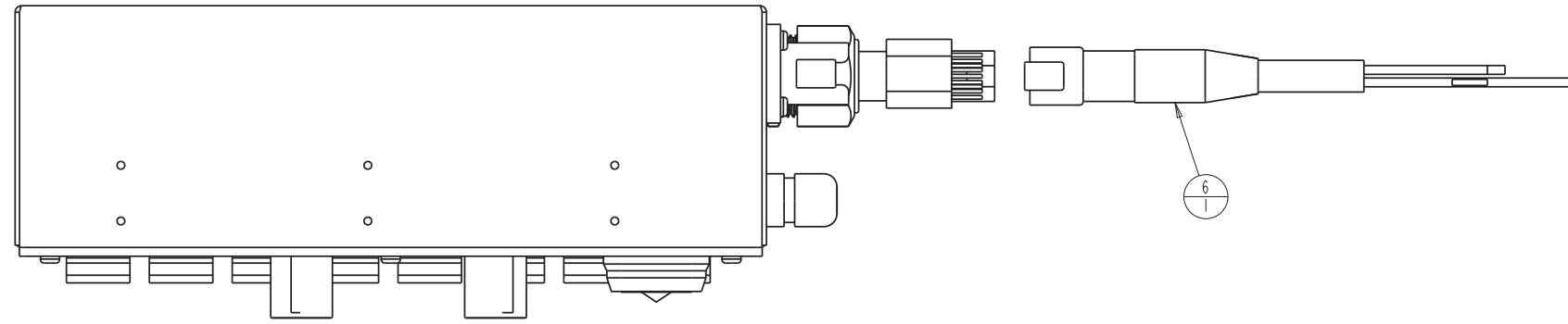


Appendix

MSS(EH)-FI-4

| ITEM | PART NO. | PART NAME | QTY | REF NO. | IND. | WT. |
|------|----------|---|-----|---------|------|-----|
| 1 | 051382 | COVER PANEL, LEGO CONTROL BOX, 4 HEAD | 1 | | STK | |
| 2 | 051578 | SWITCH BOX SCHEMATIC, LEGO CONTROLS, 4 HEAD | 1 | | REF | |
| 3 | 051828 | BOX, LEGO CONTROL, ONE PIECE | 1 | | STK | |
| 4 | 051836 | CABLE, 25 CON 18 GAUGE | 1 | | REF | |
| 5 | 051840 | CABLE, 4 CON 16 GAUGE | 1 | | REF | |
| 6 | 051841 | 4 CON EXTENSION POWER CABLE | 1 | | REF | |
| 7 | 300083 | FUSE HOLDER 15 AMP | 2 | | STK | |
| 8 | 304751 | TIMER | 1 | | STK | |
| 9 | 305019 | SWITCH, SPST, GREEN LIGHT | 10 | | STK | |
| 10 | 305020 | SWITCH, SPST, WHITE LIGHT | 1 | | STK | |
| 11 | 305021 | SWITCH, DPDT, NO LIGHT | 3 | | STK | |
| 12 | 305028 | POTENTIOMETER/ THERMO ASSY. | 2 | | STK | |
| 13 | 305029 | POTENTIOMETER KNOB | 2 | | STK | |
| 14 | 305189 | RESISTOR, 4.99K 1/4 WT 1% | 2 | | STK | |
| 15 | 305967 | LEVEL INDICATOR SM. | 1 | | 0.6 | |
| 16 | 308193 | DRIVER CARD, SINGLE OUTPUT | 1 | | STK | |
| 17 | 308202 | STRAIN RELIEF, HEYCO M4340 | 1 | | STK | |
| 18 | 308293 | CONNECTOR 12 CON DEUTCH DT04-12PA-BL08 | 1 | | STK | |
| 19 | 308298 | STRAIN RELIEF, HEYCO M4344 | 1 | | STK | |
| 20 | 308312 | 12 PIN DUST CAP | 1 | | STK | |
| 21 | 353088 | NUT, KEP 10-32 | 1 | | SPLY | |
| 22 | 355459 | NUT, 6-32 LOCKING | 4 | | SUP | |
| 23 | 355460 | NUT, KEP 8-32 | 1 | | SPLY | |
| 24 | 355464 | BUTTON HEAD SCREW 6-32 X 1/2" | 10 | | SUP | |
| 25 | 355466 | CRADLE, TIE WRAP, MOUNT | 9 | | SUP | |
| 26 | 355949 | NUT, 4-40 KEPS | 22 | | SUP | |
| 27 | 355950 | STAND-OFF 3/8", 4-40 | 4 | | SUP | |



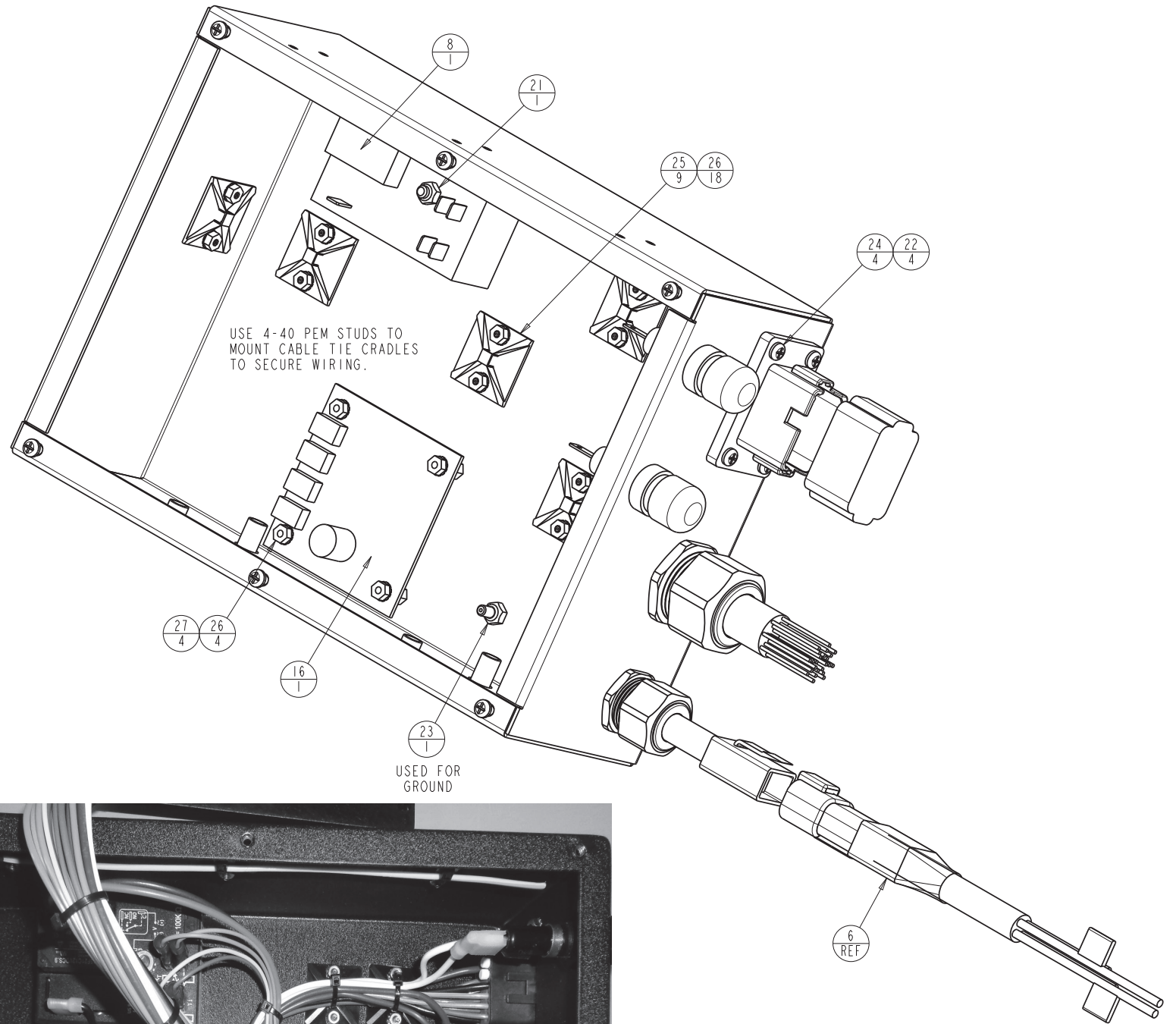
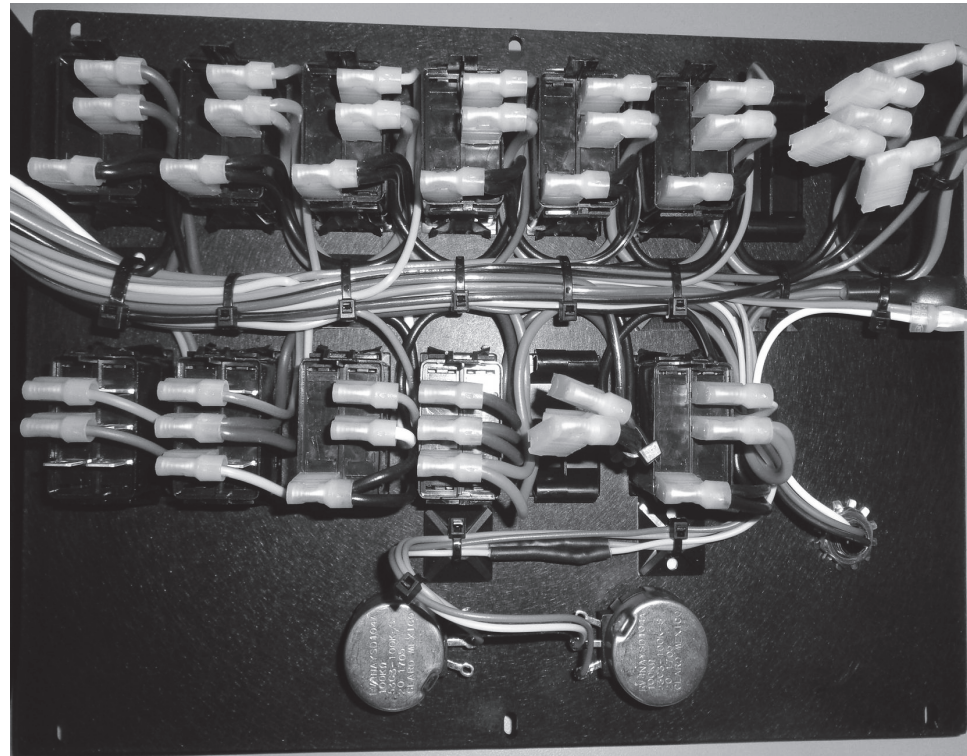
| REVISIONS | | | |
|-----------|---|------------|----------|
| REV | DESCRIPTION | DATE | APPROVED |
| A | REPLACED 8-32 & 10-32 NUT AND WASHER WITH KEP NUTS | 6/6/2017 | LAP |
| B | ADDED 051841 | 12-JUNE-17 | 17049 |
| C | ADDED ONE 305189, 305028, REPLACED 355305 WITH 355949 | 20-JUL-17 | LAP |

| | | | |
|---------------------------------------|------------------|--|-----------------|
| TOLERANCE: UNLESS OTHERWISE SPECIFIED | | ANGULAR ± 1° | |
| 3 PLACES ± 0.010 | 2 PLACES ± 0.030 | DWG. TITLE: IN-CAB CONTROL BOX, LEGO, 4 HEAD | |
| SCALE: NTS | | DATE: JAN-23-17 | DWG. NO. 051380 |
| DRAWN BY: LAP | | SHEET 1 OF 2 | |



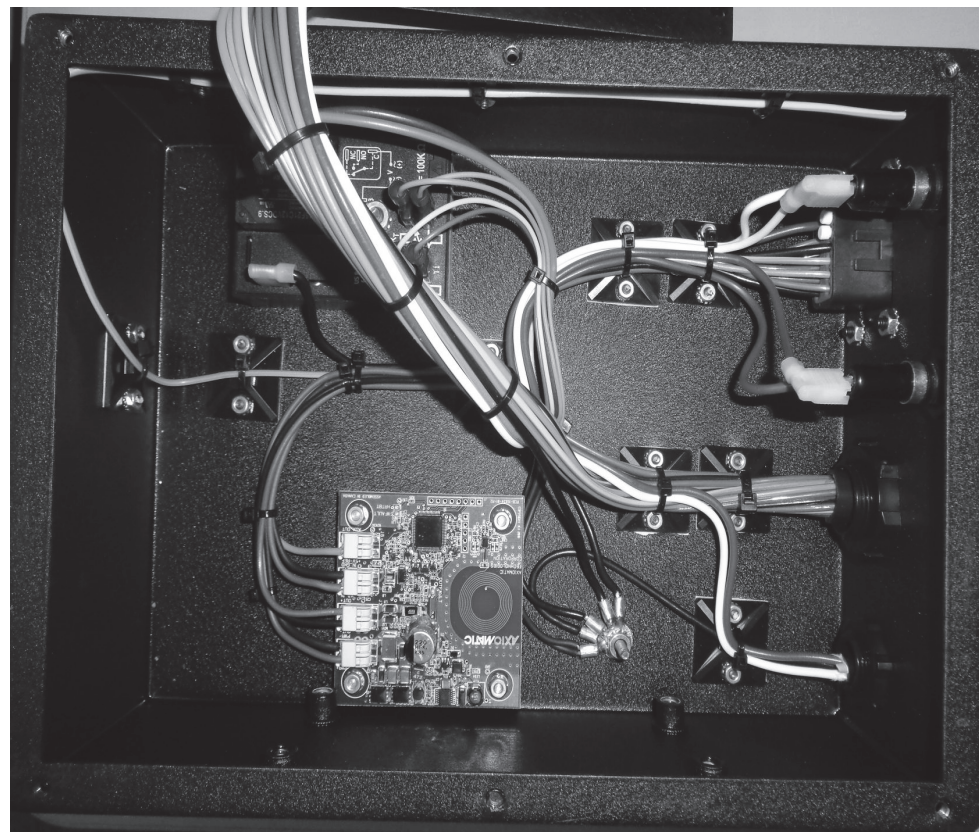
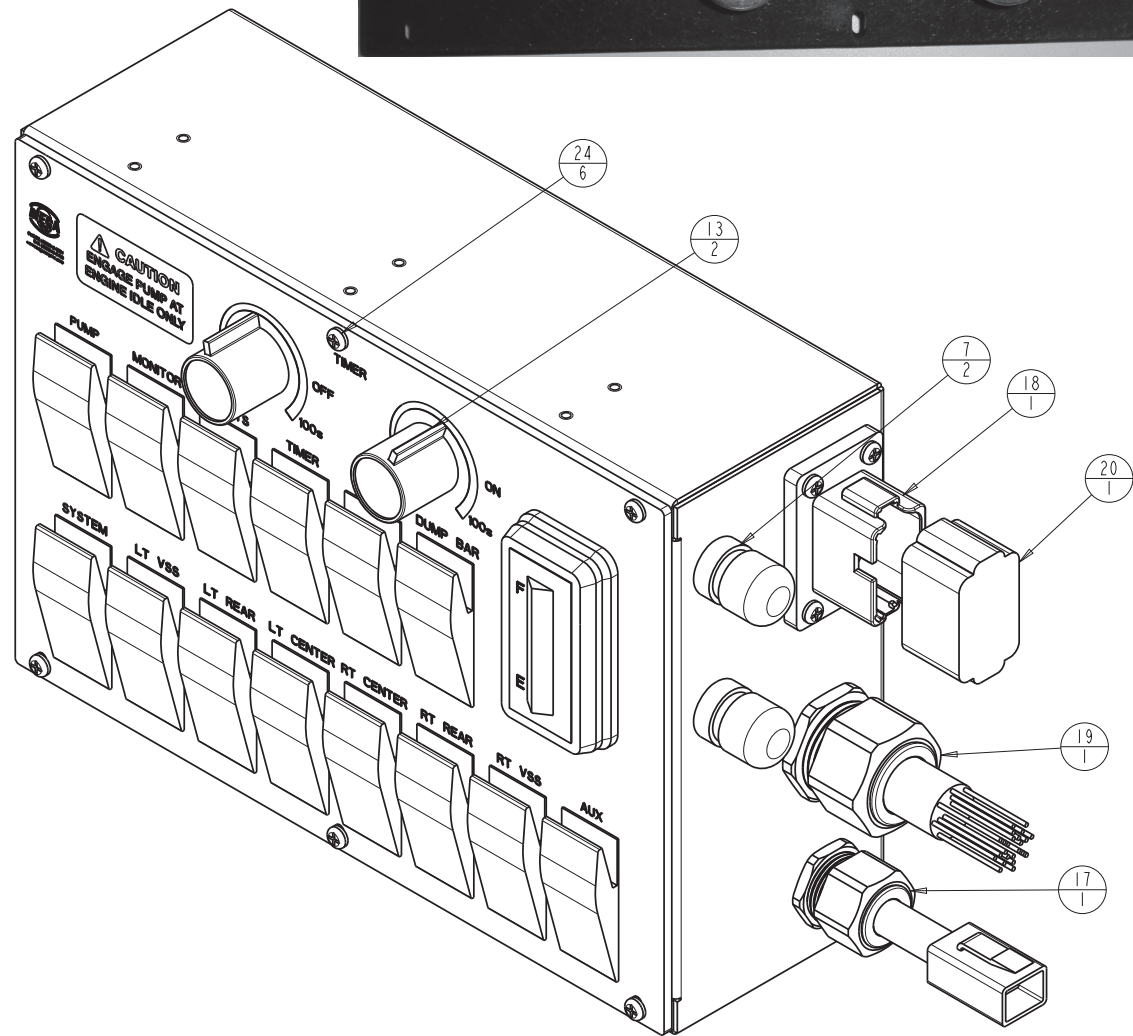
700 Osuna Rd. N.E.
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Albuquerque, NM 87125
(505) 345-2661

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USE 4-40 PEM STUDS TO MOUNT CABLE TIE CRADLES TO SECURE WIRING.

USED FOR GROUND



NOTE:

PHOTOS ARE OF PROTOTYPE. FUSE HOLDERS MOVED TO SIDE OF BOX AND FOAM AGENT SWITCHES MOVED TO JOYSTICK BOX

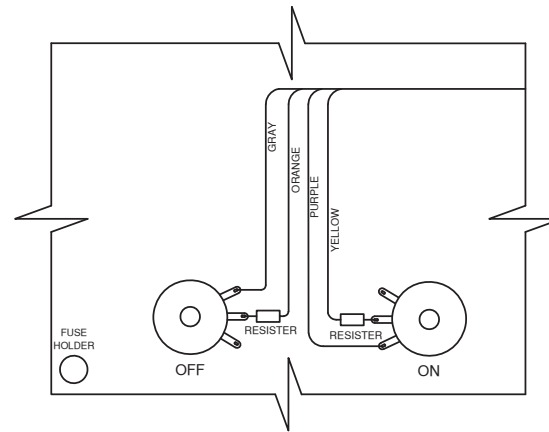
| | | | |
|--|------------------|---|--|
| | | 700 Osano Rd. N.E. P.O. Box 26146 Albuquerque, NM 87125 (505) 343-2661 | THIS DRAWING IS THE PROPERTY OF MEGA CORPORATION AND IS USED ONLY IN REFERENCE TO WORK PROPOSED OR CONTRACTED BY THIS COMPANY. IT SHALL NOT BE USED FOR ANY OTHER PURPOSE WITHOUT THE PRIOR CONSENT OF MEGA CORPORATION. |
| TOLERANCE: UNLESS OTHERWISE SPECIFIED | | | |
| 3 PLACES ± 0.010 | 2 PLACES ± 0.030 | ANGULAR ± 1° | |
| DWG. TITLE: IN-CAB CONTROL BOX, LEGO, 4 HEAD | | | |
| SCALE: NTS | DATE: JAN-23-17 | DWG. NO. 051380 | |
| DRAWN BY: LAP | SHEET 2 OF 2 | | |

Appendix

MSS(EH)-FI-4

BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|-----|----------|-----------|-----|---------|-----|
|-----|----------|-----------|-----|---------|-----|



DETAIL A
POTENTIOMETER & RESISTOR WIRING

| | | |
|--------|----------|---------------------|
| PIN 1 | RED | POWER |
| PIN 2 | BRN/RED | MONITOR DOWN |
| PIN 3 | BLK/BLUE | MONITOR LEFT |
| PIN 4 | RED/BLUE | MONITOR UP |
| PIN 5 | BRN/BLUE | ADJ NOZZLE(STREAM) |
| PIN 6 | BLK/ORG | ADJ NOZZLE(FOG/FAN) |
| PIN 7 | RED/ORG | FOAM OPEN |
| PIN 8 | BLU/ORG | FOAM CLOSE |
| PIN 9 | YEL/RED | MONITOR RIGHT |
| PIN 10 | BLK | GROUND |
| PIN 11 | NONE | NONE |
| PIN 12 | NONE | NONE |

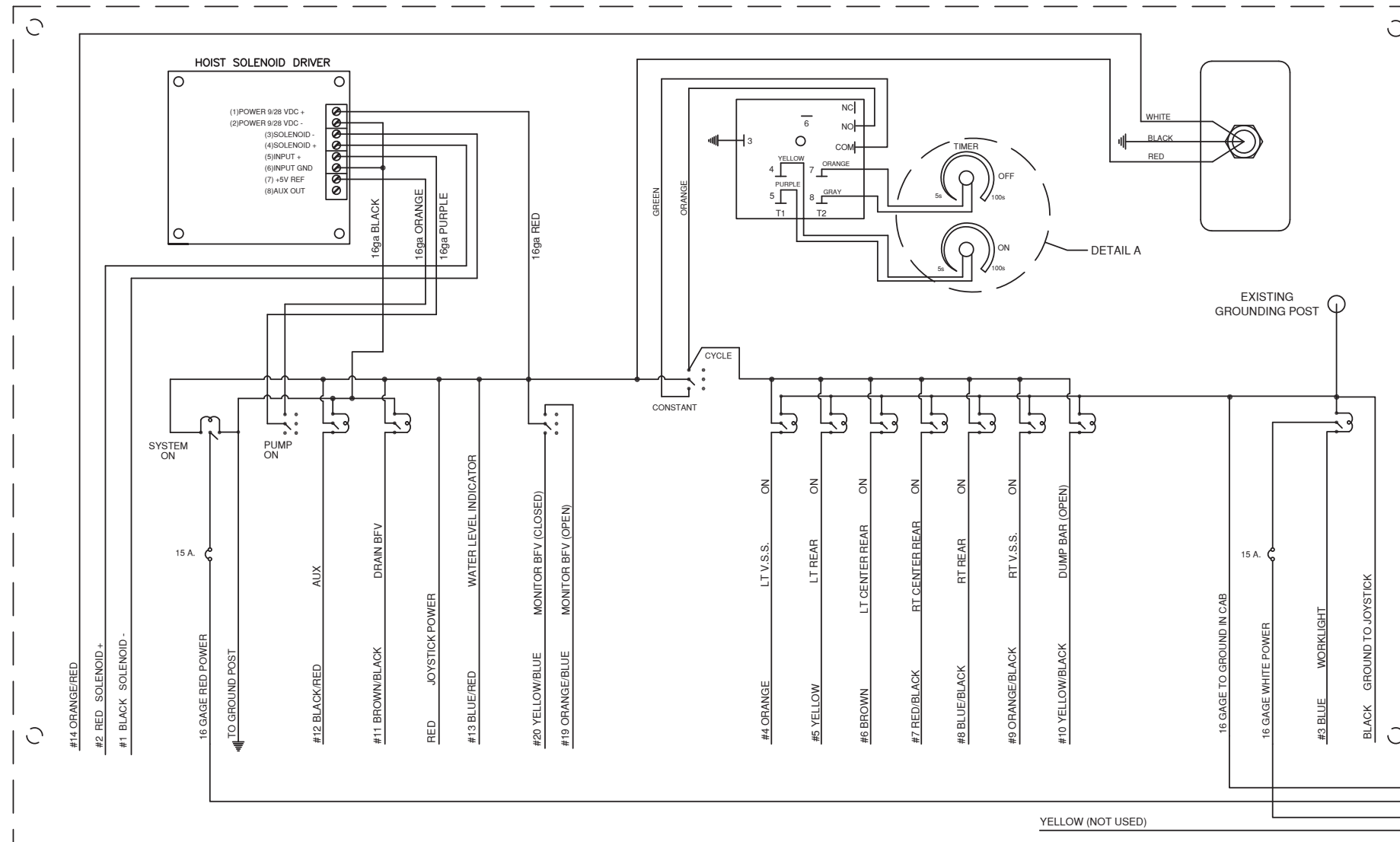
12 CONDUCTOR TO JOYSTICK

| | | |
|--------|---------|--------------------|
| PIN 1 | BLACK | SOLENOID- |
| PIN 2 | RED | SOLENOID+ |
| PIN 3 | BLUE | WORKLIGHT |
| PIN 4 | ORANGE | LEFT VSS |
| PIN 5 | YELLOW | LEFT REAR |
| PIN 6 | BROWN | LEFT REAR CENTER |
| PIN 7 | RED/BLK | RIGHT REAR CENTER |
| PIN 8 | BLU/BLK | RIGHT REAR |
| PIN 9 | ORG/BLK | RIGHT VSS |
| PIN 10 | YEL/BLK | DUMP BAR BFV |
| PIN 11 | BRN/BLK | DRAIN BFV |
| PIN 12 | BLK/RED | AUX REGULATED |
| PIN 13 | BLU/RED | WLI POWER |
| PIN 14 | ORG/RED | WLI SIGNAL |
| PIN 15 | YEL/RED | MONITOR RIGHT |
| PIN 16 | BRN/RED | MONITOR DOWN |
| PIN 17 | BLK/BLU | MONITOR LEFT |
| PIN 18 | RED/BLU | MONITOR UP |
| PIN 19 | ORG/BLU | MONITOR BFV OPEN |
| PIN 20 | YEL/BLU | MONITOR BFV CLOSE |
| PIN 21 | BRN/BLU | ADJ NOZZLE STREAM |
| PIN 22 | BLK/ORG | ADJ NOZZLE FOG/FAN |
| PIN 23 | RED/ORG | FOAM OPEN |
| PIN 24 | BLU/ORG | FOAM CLOSE |
| | YEL/ORG | NOT USED |

24 CONDUCTOR TO SOLENOID BOX

| | |
|--------|------------------------|
| RED | POWER IN +24V SWITCHED |
| WHITE | POWER IN +24V SWITCHED |
| BLACK | GROUND |
| YELLOW | NOT USED |

4 CONDUCTOR POWER TO CAB



CONTROL BOX



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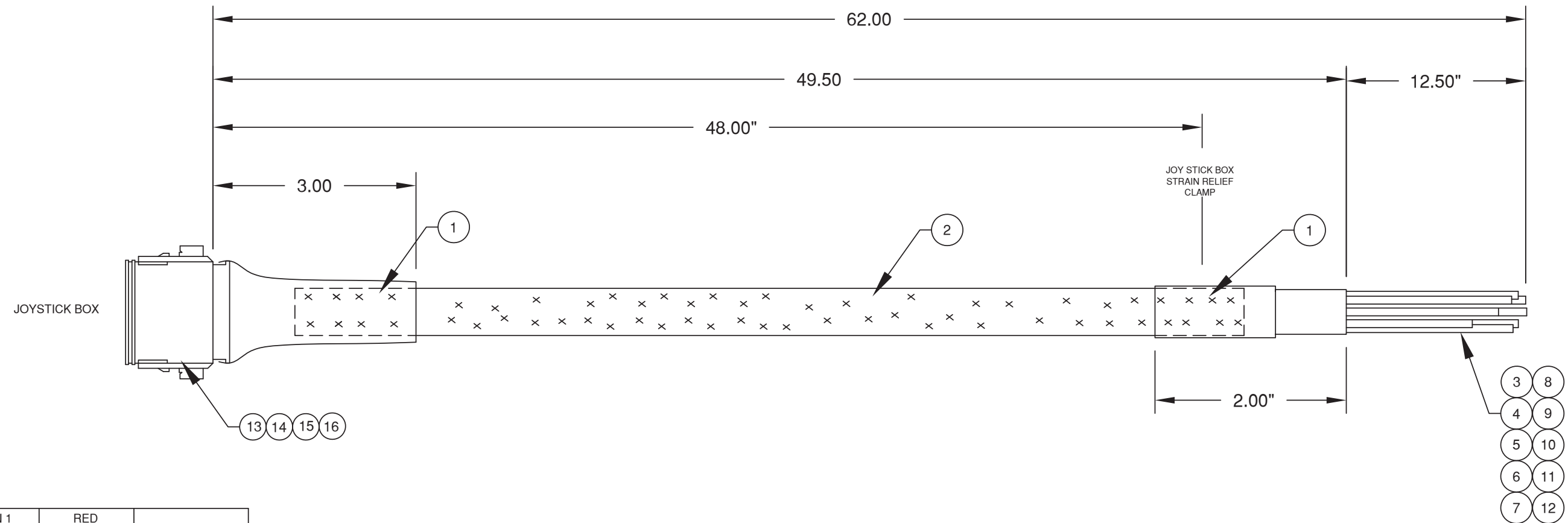
3 PLACES ± 0.010 2 PLACES ± 0.03 ANGULAR ± 1°

| REVISIONS | | | |
|-----------|---|-----------|----------|
| REV | DESCRIPTION | DATE | APPROVED |
| A | MOVED QUICK DRAIN OFF OF INTERMITTENT CIRCUIT | 7/21/17 | LAP |
| B | MOVED AUX OFF OF INTERMITTENT CIRCUIT | 17-APR-18 | TCS |

| | |
|----------------|--|
| NAME OF JOB: | LEGO SPRAYHEAD CONTROL SYSTEM KIT, 4 HEAD |
| DRAWING TITLE: | 4R, 2VSS, WLI, INTSPRAY, HYD. MON., GRV, DUMP, QUICK DUMP, FOAM, AUX |
| SCALE: | NONE |
| DATE: | 2/24/17 |
| DWG. No.: | 051578 |
| DRAWN BY: | LAP |
| SHEET | OF 1 |

BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|-----|----------|---------------------------------------|-----|---------|-----|
| 1 | 305266 | HEAT SHRINK 5.00" | 2 | | SUP |
| 2 | 306493 | BRAIDED WIRE PROTECTION 3/8 X 48" | 1 | | SUP |
| 3 | 308278 | WIRE, RED 18 GA. X 60" | 1 | | SUP |
| 4 | 308279 | WIRE, BROWN/RED STRIPE 18 GA X 60" | 1 | | SUP |
| 5 | 308280 | WIRE, BLACK/BLUE STRIPE 18 GA X 60" | 1 | | SUP |
| 6 | 308281 | WIRE, RED/BLUE STRIPE 18 GA X 60" | 1 | | SUP |
| 7 | 308282 | WIRE, BROWN/BLUE STRIPE 18 GA X 60" | 1 | | SUP |
| 8 | 308283 | WIRE, BLACK/ORANGE STRIPE 18 GA X 60" | 1 | | SUP |
| 9 | 308284 | WIRE, RED/ORANGE STRIPE 18 GA X 60" | 1 | | SUP |
| 10 | 308285 | WIRE, BLUE/ORANGE STRIPE 18 GA X 60" | 1 | | SUP |
| 11 | 308286 | WIRE, YELLOW/RED 18 GA X 60" | 1 | | SUP |
| 12 | 308321 | WIRE, BLACK 18 GA X 60" | 1 | | SUP |
| 13 | 308311 | PLUG, 12 PIN, DT SERIES | 1 | | STK |
| 14 | 303380 | SOCKET, 16-20GA | 10 | | SUP |
| 15 | 305193 | WEDGE LOCK, 12 SOCKET | 1 | | SUP |
| 16 | 304471 | SEALING PLUG | 2 | | SUP |



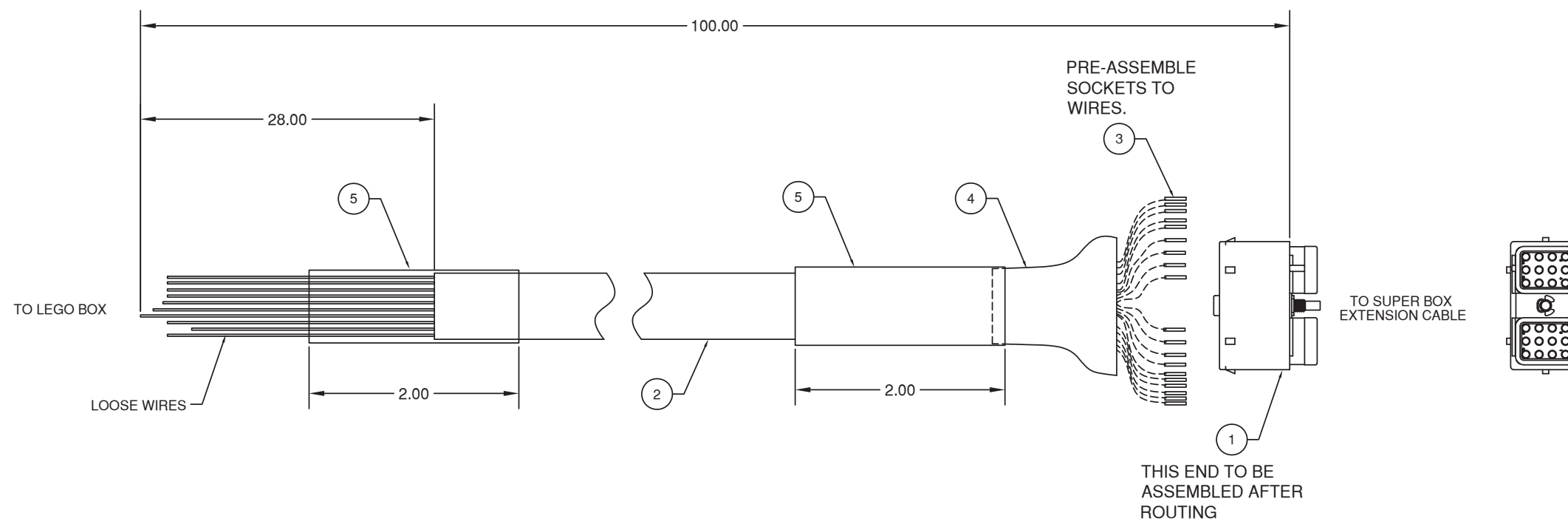
| | | |
|--------|------------|---------------------------|
| PIN 1 | RED | 12 CONDUCTOR (ITEM 13) |
| PIN 2 | BROWN/RED | |
| PIN 3 | BLK/BLUE | |
| PIN 4 | RED/BLUE | |
| PIN 5 | BROWN/BLUE | |
| PIN 6 | BLK/ORANGE | |
| PIN 7 | RED/ORANGE | |
| PIN 8 | BLU/ORANGE | |
| PIN 9 | YELLOW/RED | |
| PIN 10 | BLK | |
| PIN 11 | NONE | |
| PIN 12 | NONE | |

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

| REVISIONS | | | | NAME OF JOB: LEGO CONTROL BOX | | |
|-----------|-------------------------------|-----------|----------|--|---------------|------------------|
| REV | DESCRIPTION | DATE | APPROVED | DRAWING TITLE: JOYSTICK CABLE ASSEMBLY, 10 CON | | |
| A | 308286 CHANGED TO 308321 | 6/06/2017 | LAP | SCALE: NTS | DATE: 2-23-17 | DWG. No.: 051572 |
| B | ADDED 4.50" TO OVERALL LENGTH | 7/24/2017 | LAP | DRAWN BY: LAP | SHEET OF 1 | |

BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|-----|----------|--------------------------|-----|---------|-----|
| 1 | 305844 | PLUG, 24 PIN, DRC SERIES | 1 | | STK |
| 2 | 308301 | CABLE, 18GA 25CON X 96" | 1 | | SUP |
| 3 | 303380 | SOCKET, FEMALE, DEUTSCH | 24 | | SUP |
| 4 | 306153 | BOOT | 1 | | STK |
| 5 | 305267 | HEAT SHRINK 6" | 2 | | SUP |



| | | |
|--------|---------|--------------------------|
| PIN 1 | BLACK | 24 CONDUCTOR (ITEM 1) |
| PIN 2 | RED | |
| PIN 3 | BLUE | |
| PIN 4 | ORANGE | |
| PIN 5 | YELLOW | |
| PIN 6 | BROWN | |
| PIN 7 | RED/BLK | |
| PIN 8 | BLU/BLK | |
| PIN 9 | ORG/BLK | |
| PIN 10 | YEL/BLK | |
| PIN 11 | BRN/BLK | |
| PIN 12 | BLK/RED | |
| PIN 13 | BLU/RED | |
| PIN 14 | ORG/RED | |
| PIN 15 | YEL/RED | |
| PIN 16 | BRN/RED | |
| PIN 17 | BLK/BLU | |
| PIN 18 | RED/BLU | |
| PIN 19 | ORG/BLU | |
| PIN 20 | YEL/BLU | |
| PIN 21 | BRN/BLU | |
| PIN 22 | BLK/ORG | |
| PIN 23 | RED/ORG | |
| PIN 24 | BLU/ORG | |
| | YEL/ORG | NOT USED |

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TOLERANCE: UNLESS OTHERWISE SPECIFIED

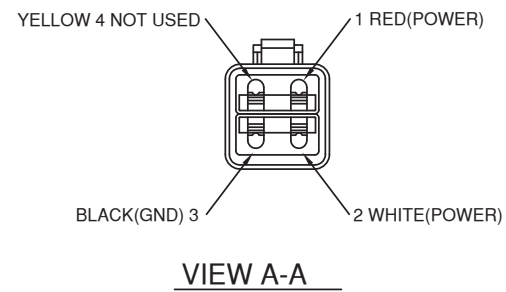
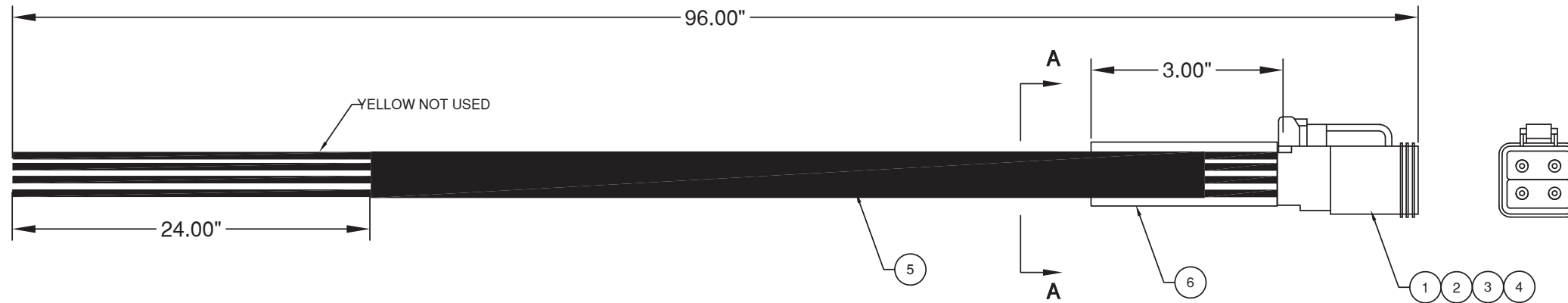
| | | |
|------------------|-----------------|--------------|
| 3 PLACES ± 0.010 | 2 PLACES ± 0.03 | ANGULAR ± 1° |
|------------------|-----------------|--------------|

| REVISIONS | | | |
|-----------|-----------------------------------|----------|----------|
| REV | DESCRIPTION | DATE | APPROVED |
| A | CORRECTED ITEM 3 306152 TO 303380 | 06-07-17 | LAP |
| B | ADDED 4.00" TO OVERALL LENGTH | 07-24-17 | LAP |

| | |
|----------------|-----------------------------|
| NAME OF JOB: | LEGO CONTROL BOX |
| DRAWING TITLE: | 24 PIN PIG TAIL CABLE, PLUG |
| SCALE: | NONE |
| DATE: | 5-12-17 |
| DWG. No. | 051836 |
| DRAWN BY: | LAP |
| SHEET | 1 OF 1 |

BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|-----|----------|--------------------------|-----|---------|-----|
| 1 | 304468 | PLUG, 4 PIN (DEUTSCH) | 1 | | STK |
| 2 | 304469 | SECONDARY LOCK, 4 SOCKET | 1 | | SUP |
| 3 | 303380 | SOCKET, FEMALE, DEUTSCH | 4 | | SUP |
| 4 | 304471 | SEALING PLUG | 1 | | SUP |
| 5 | 306377 | CABLE 4 CON, 16 GA | 1 | | SUP |
| 6 | 305266 | HEAT SHRINK, 3.00" | 2 | | SUP |



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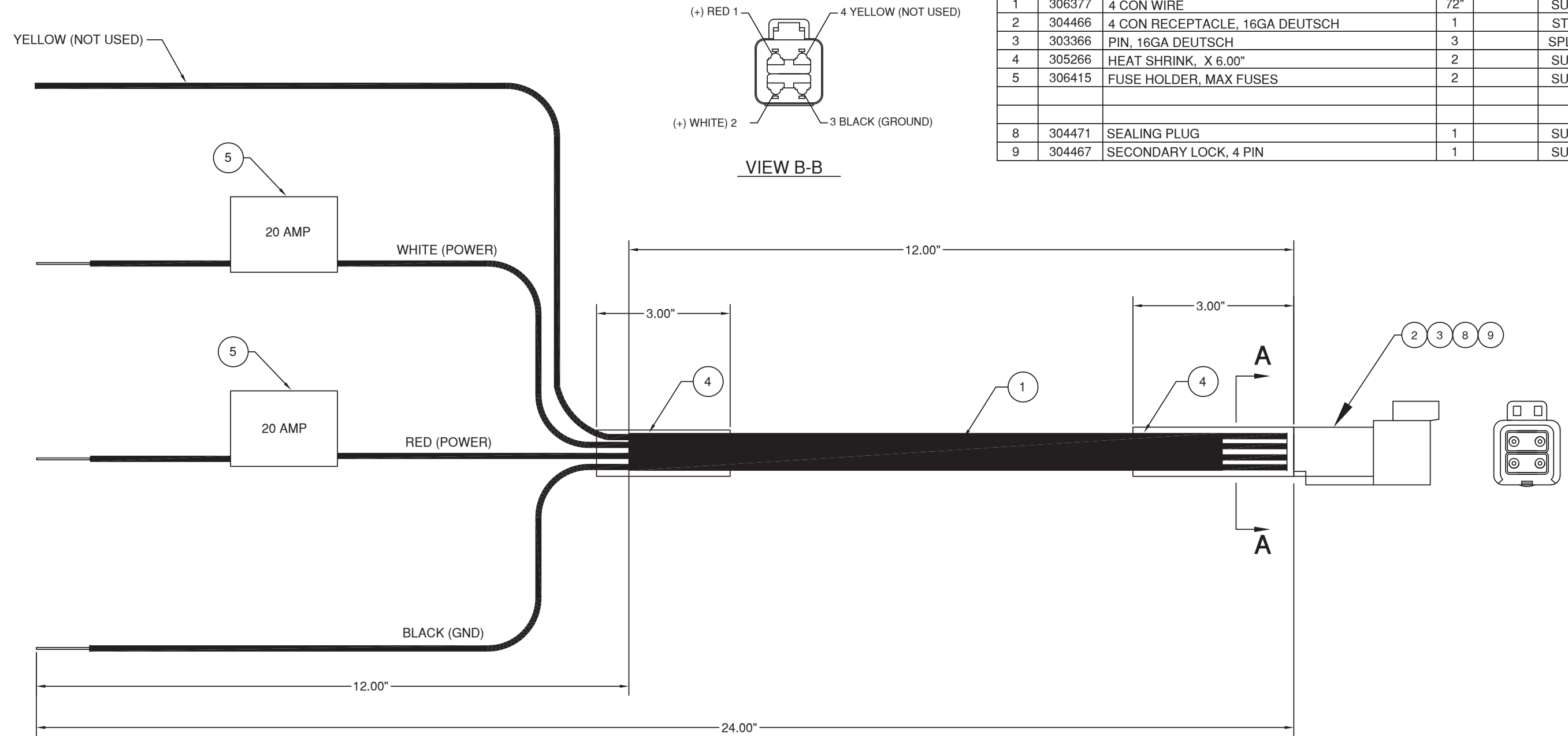
3 PLACES ± 0.010 2 PLACES ± 0.03 ANGULAR ± 1°

| REVISIONS | | | | NAME OF JOB: LEGO CONTROL BOX | | |
|-----------|-------------------------------|------------|----------|-------------------------------------|----------------|------------------|
| REV | DESCRIPTION | DATE | APPROVED | DRAWING TITLE: CABLE, PIG TAIL 4CON | | |
| A | 306377 PLUG CHANGED TO 304468 | 6/7/2017 | LAP | SCALE: NONE | DATE: 05-15-17 | DWG. No.: 051840 |
| B | CORRECTED ITEM 3 | 10/27/2017 | CSB | DRAWN BY: LAP | SHEET 1 OF 1 | |

Appendix

MSS(EH)-FI-4

| NO. | PART NO. | DESCRIPTION | QTY. | REF. NO. | WEIGHT |
|-----|----------|--------------------------------|------|----------|--------|
| 1 | 306377 | 4 CON WIRE | 72" | | SUP |
| 2 | 304466 | 4 CON RECEPTACLE, 16GA DEUTSCH | 1 | | STK |
| 3 | 303366 | PIN, 16GA DEUTSCH | 3 | | SPLY |
| 4 | 305266 | HEAT SHRINK, X 6.00" | 2 | | SUP |
| 5 | 306415 | FUSE HOLDER, MAX FUSES | 2 | | SUP |
| 8 | 304471 | SEALING PLUG | 1 | | SUP |
| 9 | 304467 | SECONDARY LOCK, 4 PIN | 1 | | SUP |



REVISIONS

| REV | DESCRIPTION | DATE | APPROVED |
|-----|---|------------|----------|
| A | REMOVED ITEMS 6,7, CHANGED 306383 TO 306415 | 7/20/2017 | LAP |
| B | CHANGED 306415 TO SUPPLY | 10/16/2017 | LAP |



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| SCALE | DESIGNED BY | PRINT RECORD | | |
|-------------|-------------|--------------|-----|---------|
| | | NO. | FOR | TO SHOP |
| DATE DRAWN | DRAWN BY | | | |
| 5-15-17 | LAP | | | |
| DATE APPRV. | APPRV. BY | | | |
| | | | | |

CUSTOMER _____
 LOCATION _____
 NAME OF JOB LEGO CONTROL BOX
 DWG. DESCRIPTION 4 CON POWER CABLE

JOB NO.

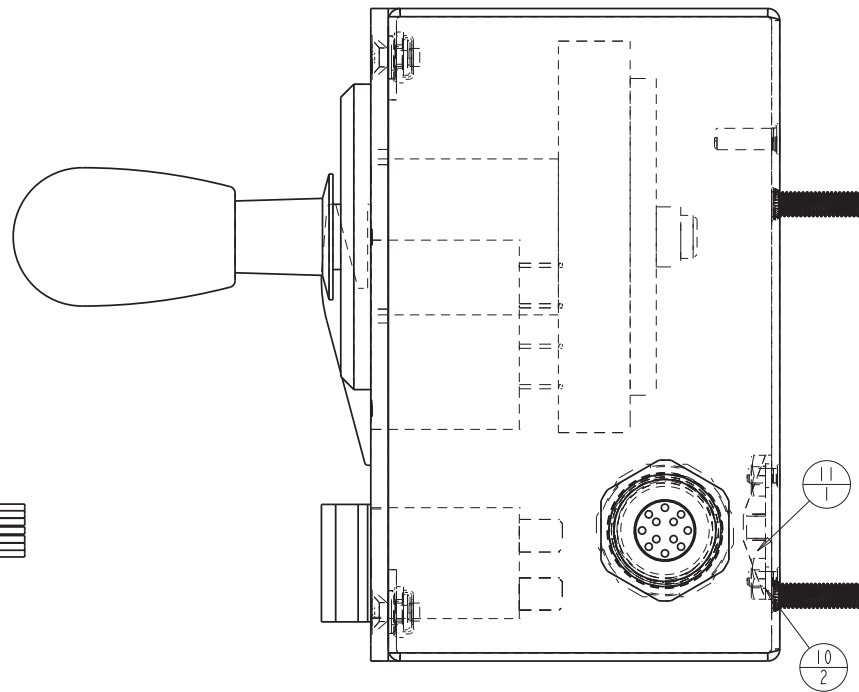
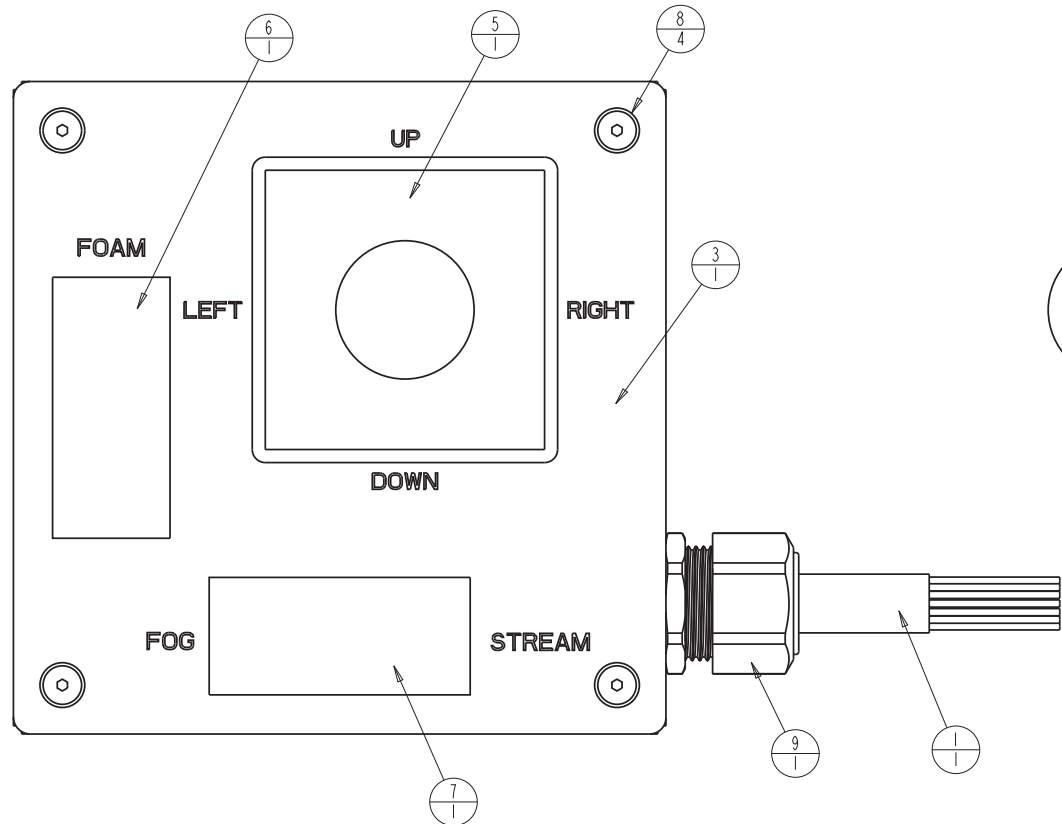
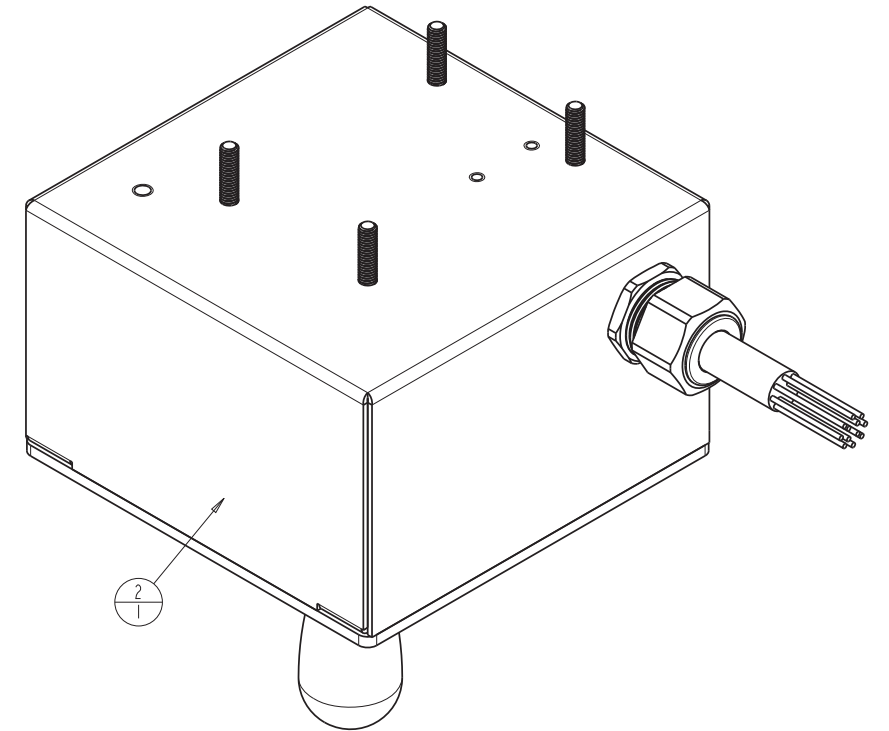
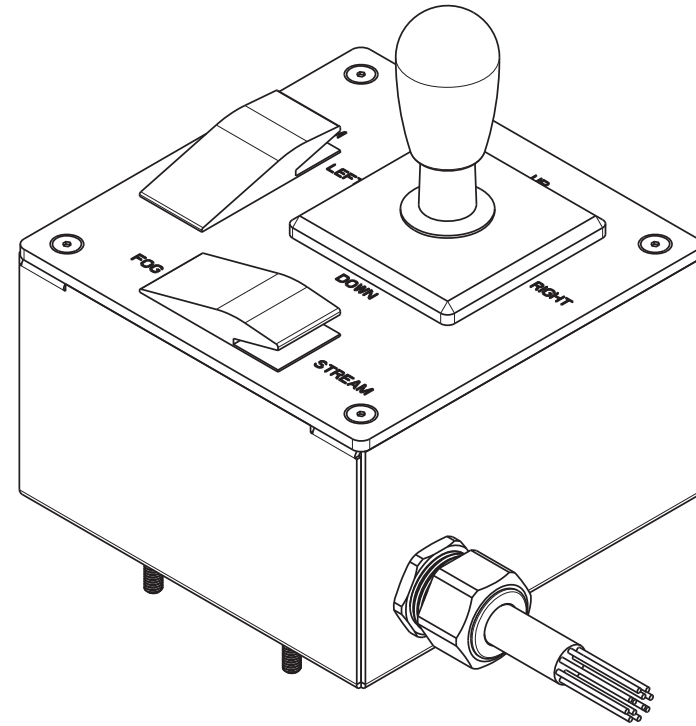
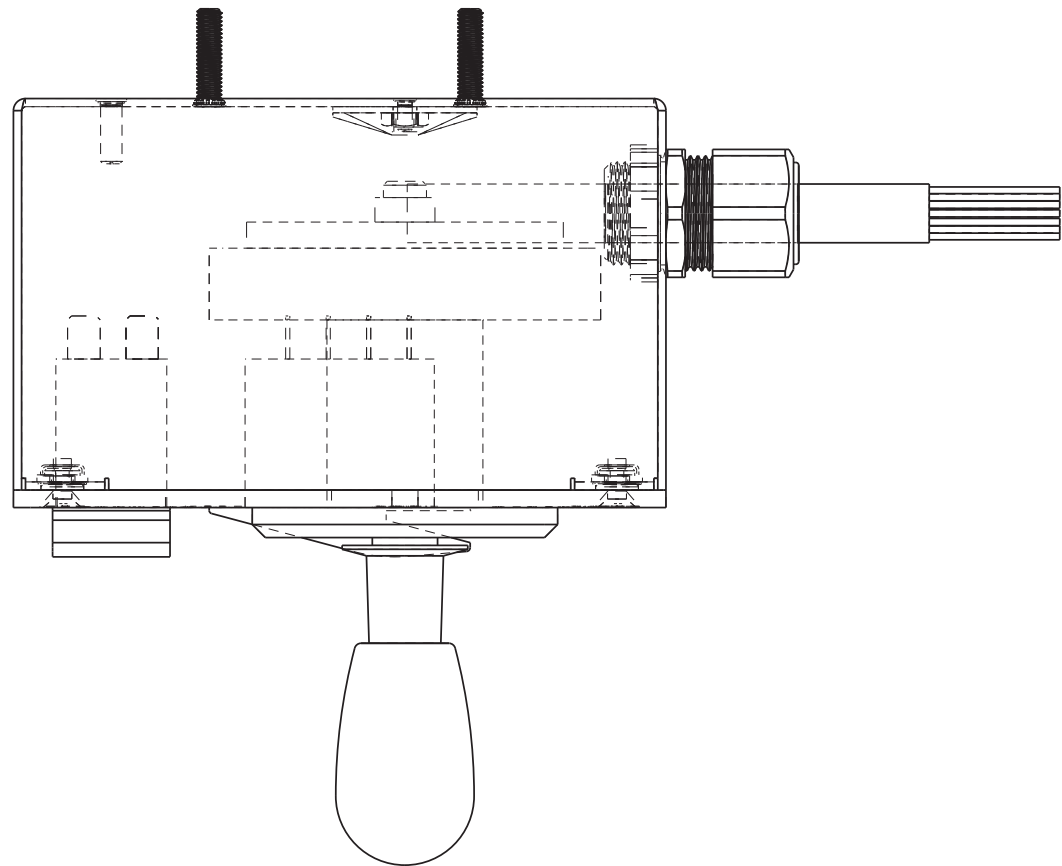
DWG. NO.


051841

Appendix

MSS(EH)-FI-4

| ITEM | PART NO. | PART NAME | QTY | REF NO. | IND. | WT. |
|------|----------|-------------------------------|-----|---------|------|------|
| 1 | 051572 | CABLE, 10 CON 18 GAUGE | 1 | | | REF |
| 2 | 051573 | JOYSTICK BOX, LEGO CONTROL | 1 | | | STK |
| 3 | 051575 | LEGO JOYSTICK BOX COVER PLATE | 1 | | | STK |
| 4 | 051855 | JOYSTICK BOX SCHEMATIC | 1 | | | REF |
| 5 | 303041 | UNIVERSAL, JOYSTICK | 1 | | | STK |
| 6 | 305021 | SWITCH, DPDT, NO LIGHT | 1 | | | STK |
| 7 | 305022 | SWITCH, DPDT, MOMENTARY | 1 | | | STK |
| 8 | 306523 | FLAT HEAD SCREW, 6/32 X .25 | 4 | | | SPLY |
| 9 | 308202 | STRAIN RELIEF, HEYCO M4340 | 1 | | | STK |
| 10 | 355305 | NUT, HEX #6-32 UNC | 2 | | | SPLY |
| 11 | 355466 | CRADLE, TIE WRAP, MOUNT | 1 | | | SUP |




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| | | |
|---------------------------------------|------------------|-----------------|
| TOLERANCE: UNLESS OTHERWISE SPECIFIED | | |
| 3 PLACES ± 0.010 | 2 PLACES ± 0.030 | ANGULAR ± 1° |
| DWG. TITLE: LEGO JOYSTICK BOX | | |
| SCALE: NTS | DATE: Feb-23-17 | DWG. NO. 051385 |
| DRAWN BY: LAP | | SHEET 1 OF 2 |



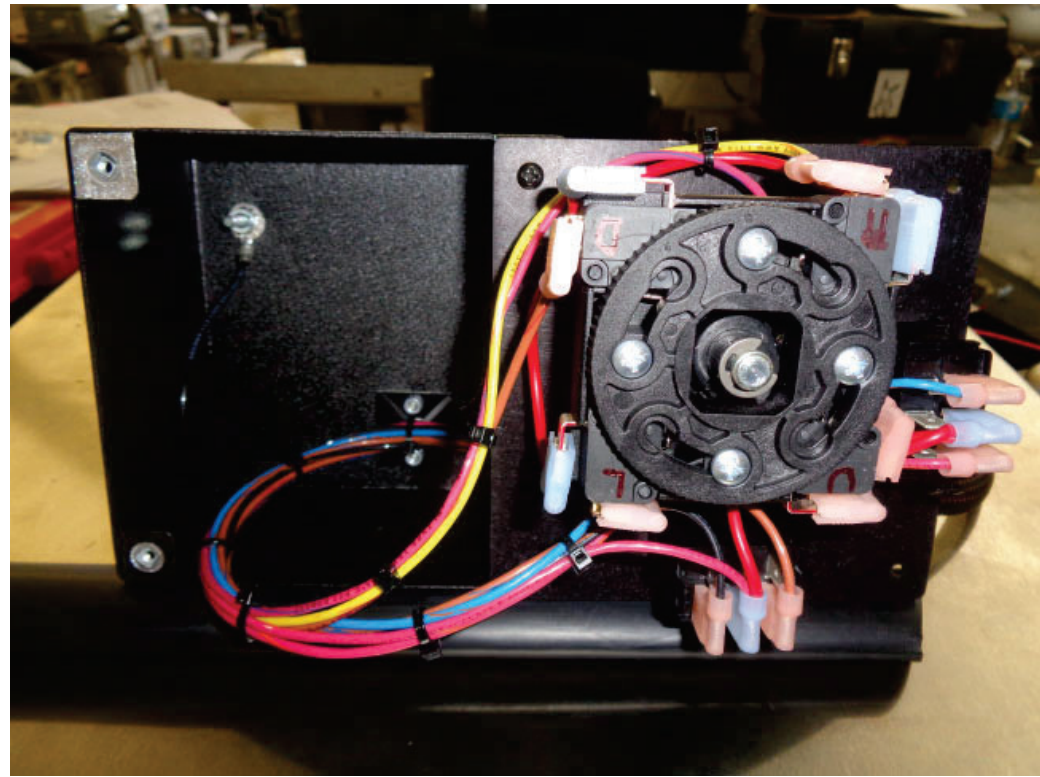
JOYSTICK SHOWN WITHOUT FOAM AGENT AND ADJUSTABLE NOZZLE OPTIONS



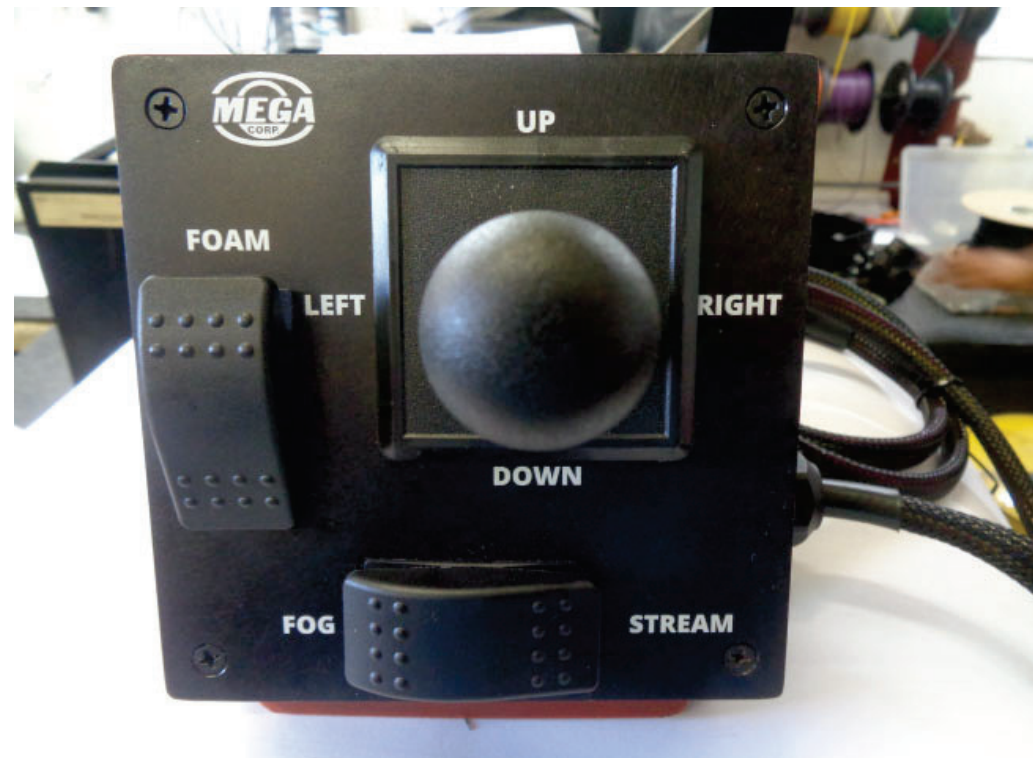
JOYSTICK WITH FOAM AGENT AND ADJUSTABLE NOZZLE OPTIONS

| | | | |
|---|---|-----------------|--|
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| | TOLERANCE: UNLESS OTHERWISE SPECIFIED 3 PLACES ± 0.010 2 PLACES ± 0.030 ANGULAR ± 1° | | |
| DWG. TITLE: LEGO JOYSTICK BOX | | | |
| SCALE: NTS | DATE: Jul-24-17 | DWG. NO. 051385 | |
| DRAWN BY: LAP | SHEET 2 OF 2 | | |

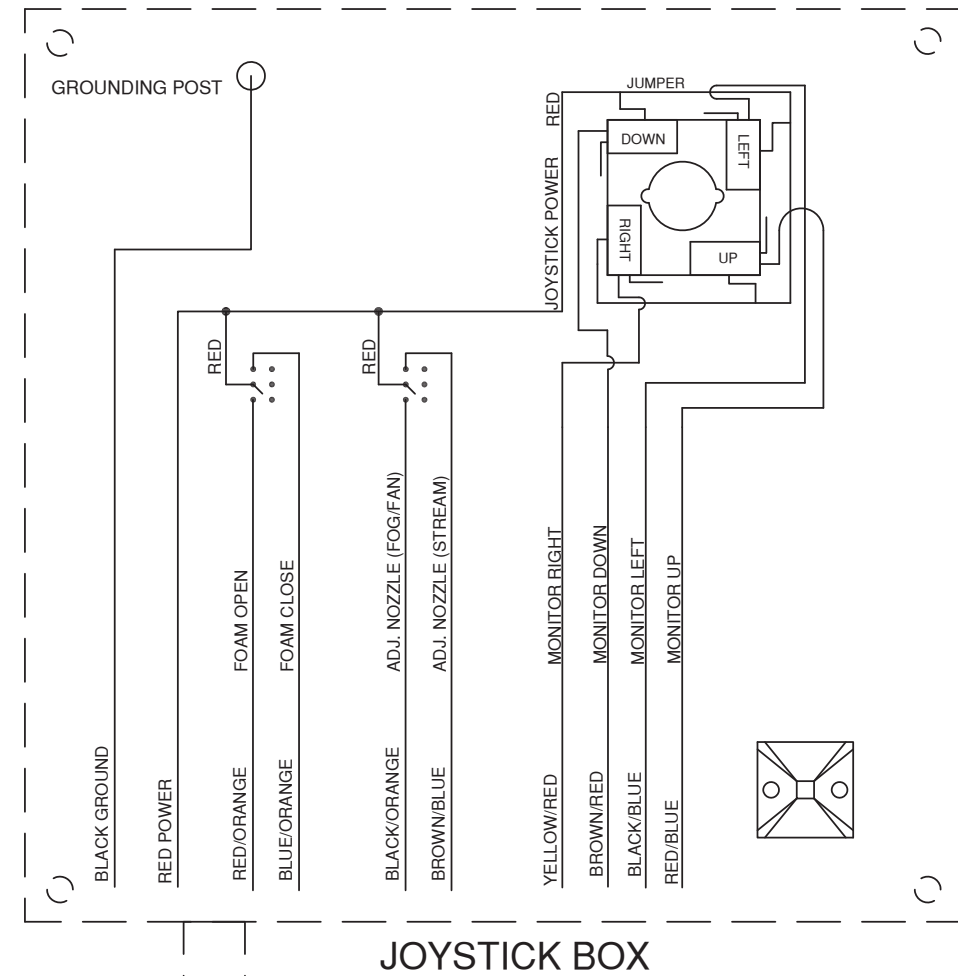
| NO. | PART NO. | DESCRIPTION | QTY. | REF. NO. | WEIGHT |
|-----|----------|-------------|------|----------|--------|
| | | | | | |



USE JOYSTICK MICRO SWITCHES WITH 90° WIRE LUGS AS SHOWN




JOYSTICK WITH FOAM AGENT AND ADJUSTABLE NOZZLE OPTIONS



TO SWITCH BOX

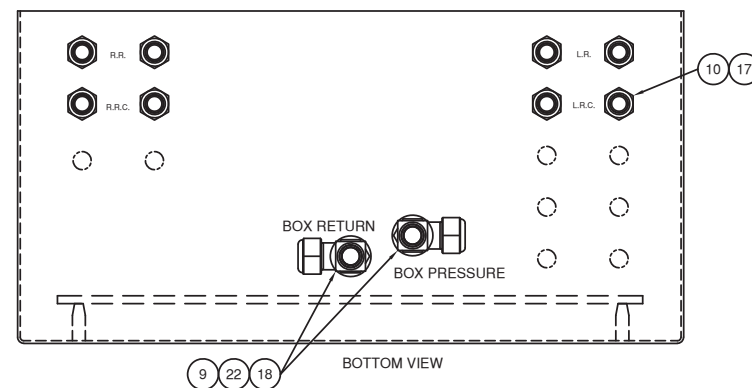
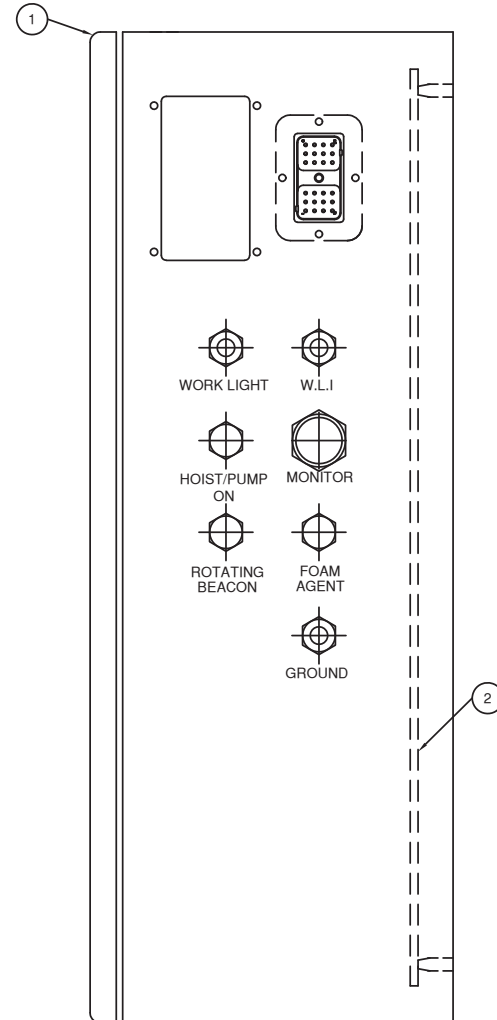
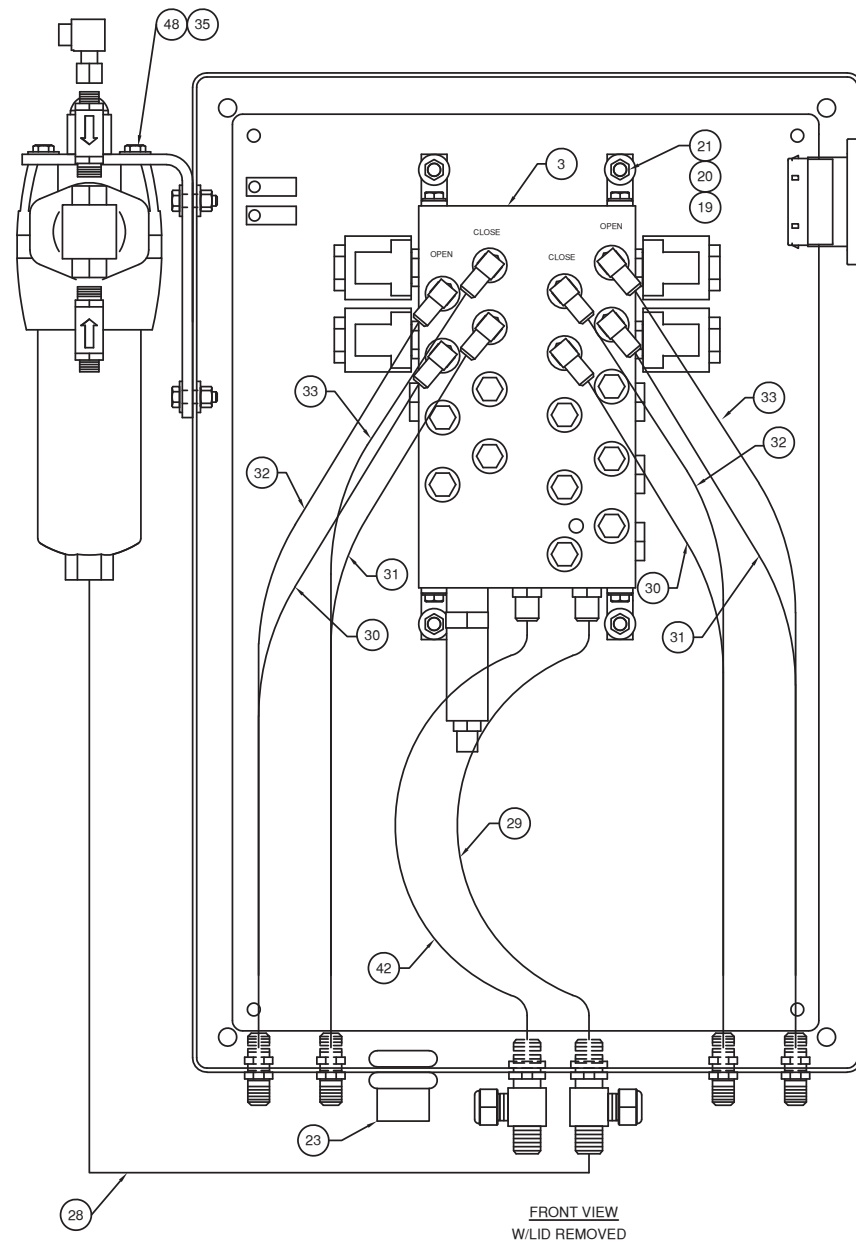
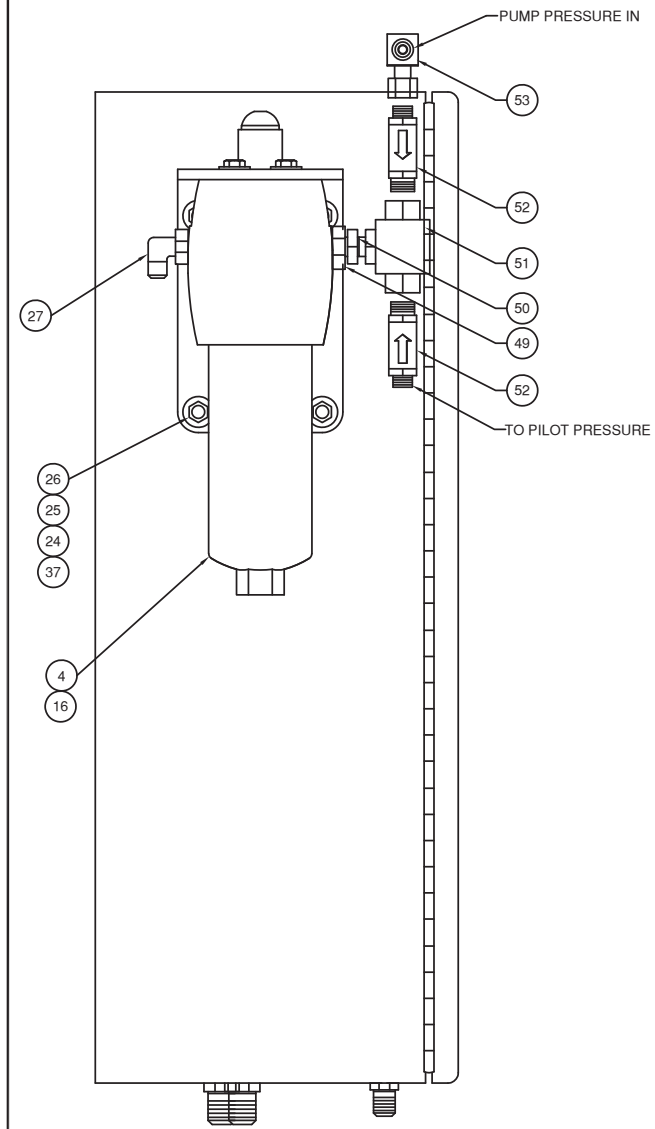
SEE 051572

JOYSTICK BOX

| | | | | | |
|--|--|-----------------|--|------------------|--|
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| TOLERANCE: UNLESS OTHERWISE SPECIFIED | | | | | |
| 3 PLACES ± 0.010 | | 2 PLACES ± 0.03 | | ANGULAR ± 1° | |
| NAME OF JOB: LEGO SPRAYHEAD CONTROL SYSTEM KIT | | | | | |
| DRAWING TITLE: JOYSTICK SCHEMATIC | | | | | |
| SCALE: NONE | | DATE: 5/17/17 | | DWG. No.: 051855 | |
| DRAWN BY: LAP | | SHEET 1 OF 1 | | | |

BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|--------|----------|-----------|-----|---------|------|
| 051842 | 1 | 051843 | 1 | | STK |
| 051851 | 1 | 051850 | 1 | 051843 | REF |
| | 2 | 051844 | 1 | | STK |
| | 3 | 044311 | 1 | | REF |
| | 4 | 305277 | 1 | | STK |
| | 5 | 051845 | 1 | | REF |
| | 6 | 355497 | 16 | | SUP |
| | 7 | 354677 | 1 | | STK |
| | 8 | 303691 | 4 | | STK |
| | 9 | 353120 | 2 | | SUP |
| | 10 | 352641 | 8 | | STK |
| | 11 | 355464 | 8 | | SUP |
| | 12 | 355459 | 8 | | SUP |
| | 13 | 307819 | 1 | | STK |
| | 14 | 354463 | 1 | | STK |
| | 15 | 355023 | 1 | | STK |
| | 16 | 042952 | 1 | | STK |
| | 17 | 353487 | 8 | | SUP |
| | 18 | 353489 | 5 | | SUP |
| | 19 | 350059 | 6 | | SUP |
| | 20 | 350001 | 4 | | SUP |
| | 21 | 354512 | 4 | | SUP |
| | 22 | 354065 | 2 | | STK |
| | 23 | 305880 | 1 | | STK |
| | 24 | 307453 | 4 | | SUP |
| | 25 | 307451 | 4 | | STK |
| | 26 | 307448 | 4 | | SUP |
| | 27 | 305903 | 1 | | STK |
| | 28 | 052043 | 1 | | STK |
| | 29 | 046467 | 1 | | STK |
| | 30 | 043600 | 2 | | STK |
| | 31 | 052040 | 2 | | STK |
| | 32 | 043598 | 2 | | STK |
| | 33 | 052039 | 2 | | STK |
| | 34 | 355022 | 5 | | STK |
| | 35 | 308830 | 4 | | SUP |
| | 36 | 043425 | 1 | | REF |
| | 37 | 355455 | 12 | | SUP |
| | 38 | 053322 | 1 | 046063 | REF |
| | 39 | 355498 | 2 | | SUP |
| | 40 | 355466 | 11 | | SUP |
| | 41 | 305254 | 11 | | SUP |
| | 42 | 046466 | 1 | | STK |
| | 43 | 306933 | 4 | | STK |
| | 44 | 355254 | 8 | | SUP |
| | 45 | 355264 | 4 | | SUP |
| | 46 | 305901 | 2 | | STK |
| | 47 | 308222 | 1 | | STK |
| | 48 | 306072 | 4 | | SUP |
| | 49 | 355962 | 1 | | SPLY |
| | 50 | 309077 | 1 | | SPLY |
| | 51 | 306941 | 1 | | STK |
| | 52 | 306942 | 2 | | STK |
| | 53 | 306262 | 1 | | SPLY |



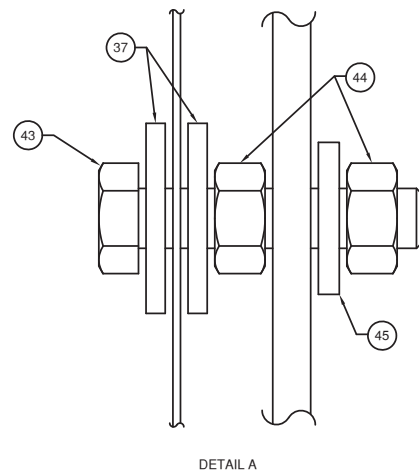
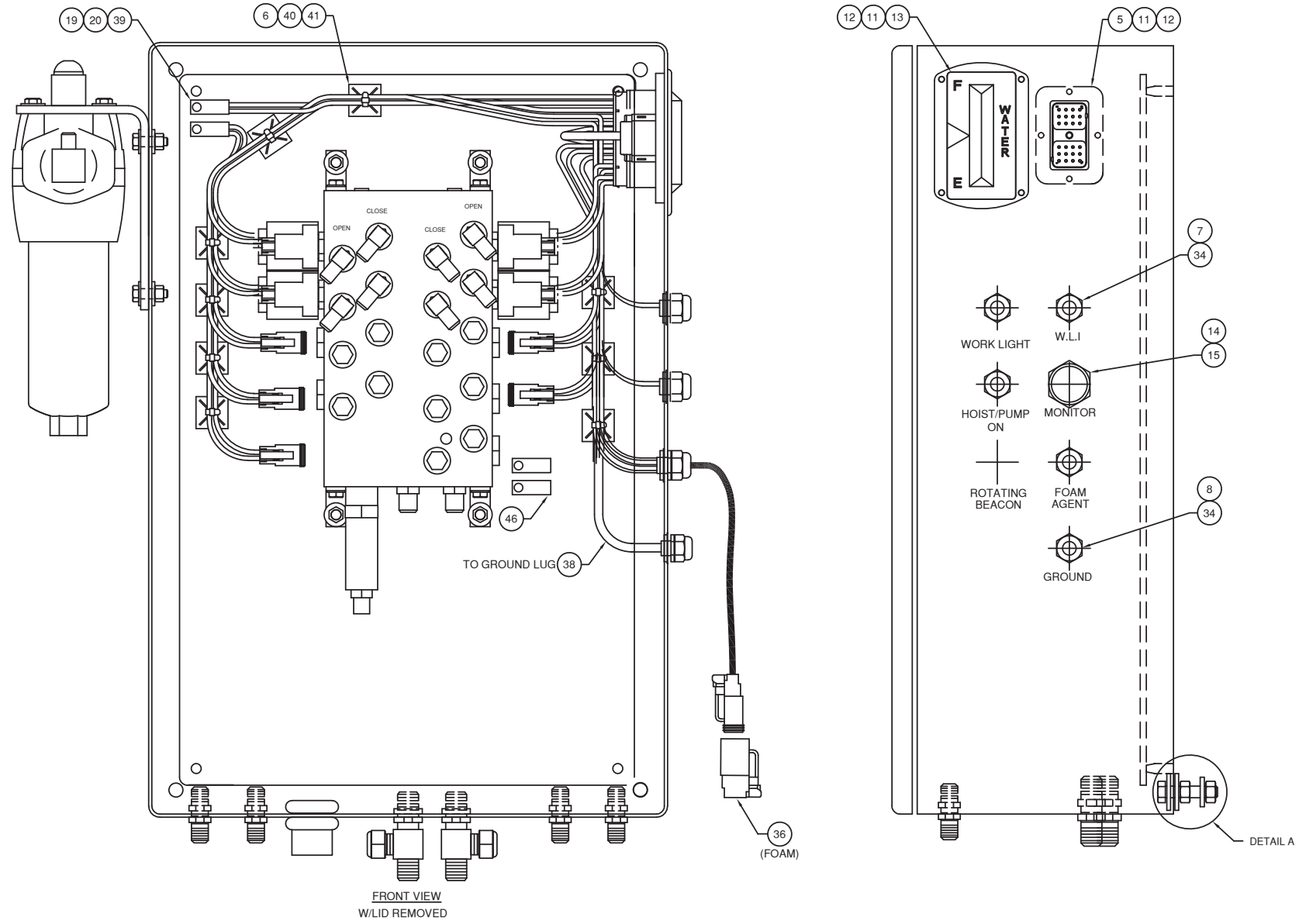
| REVISIONS | | | |
|-----------|--|-----------|----------------|
| REV | DESCRIPTION | DATE | APPROVED |
| A | 043600 WAS 043596, 052040 WAS 043597, 052039 WAS 043599, 052043 WAS 043602, 046467 WAS 043604, 046466 WAS 044348 | 7-18-17 | RRH |
| B | ADDED 305901 | 9-24-17 | RRH |
| C | ITEMS 28, 31 & 33 TO STOCK | 11-6-17 | CSB |
| D | ADD 308222, 355564, 355510, 355253, (4) 350001, 350080--307453, 307451, 307448, 306072, 308830 | 16-APR-17 | 18027 18015 |
| E | ADDED DUAL SOURCE COMPONENTS 355962, 309077, 306941, 306942, 306262 | 4-OCT-18 | 18010 |
| F | 046063--053322 | 01-09-19 | RRH |


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Albuquerque, NM 87125
(505) 345-2661

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

NAME OF JOB: HYD. CONTROL SYSTEM, BOTTOM HOSES
DRAWING TITLE: ENCLOSURE ASSY., 4 REAR HEAD
SCALE: NTS 5-15-17 DWG. No.: 051842
DRAWN BY: RRH SHEET 1 OF 2



| | | | | | |
|---|--|-----------------|--|------------------|--|
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| TOLERANCE: UNLESS OTHERWISE SPECIFIED | | | | | |
| 3 PLACES ± 0.010 | | 2 PLACES ± 0.03 | | ANGULAR ± 1° | |
| NAME OF JOB: HYD. CONTROL SYSTEM, BOTTOM HOSES | | | | | |
| DRAWING TITLE: ENCLOSURE ASSY, 4 READ HEAD | | | | | |
| SCALE: 1/2"=0'-1 | | 5-15-17 | | DWG. No.: 051842 | |
| DRAWN BY: RRH | | SHEET 2 OF 2 | | | |

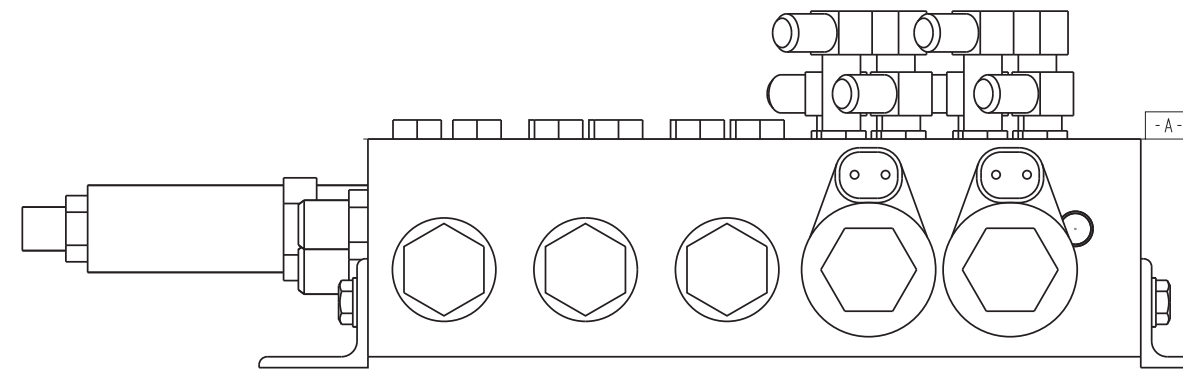
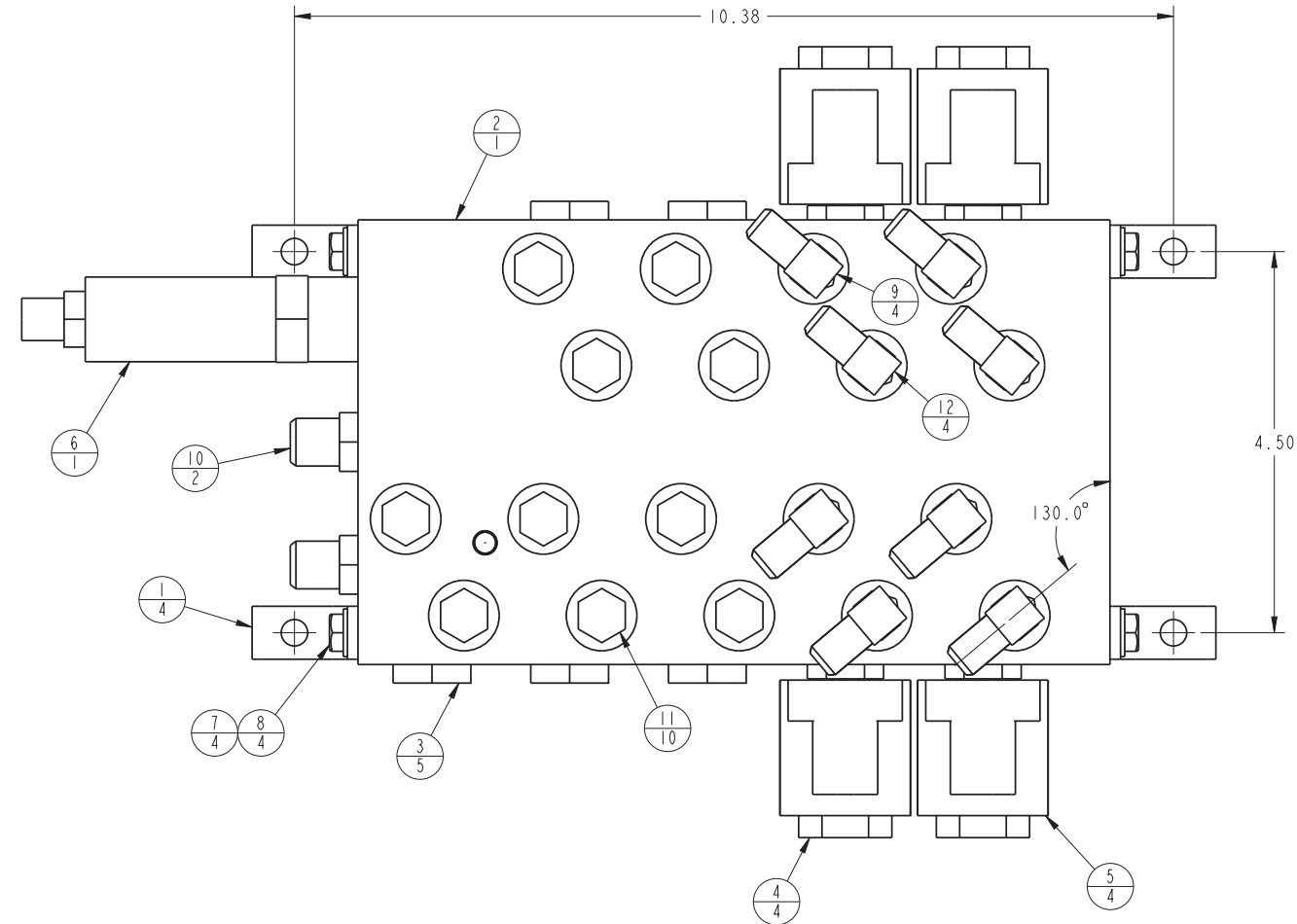
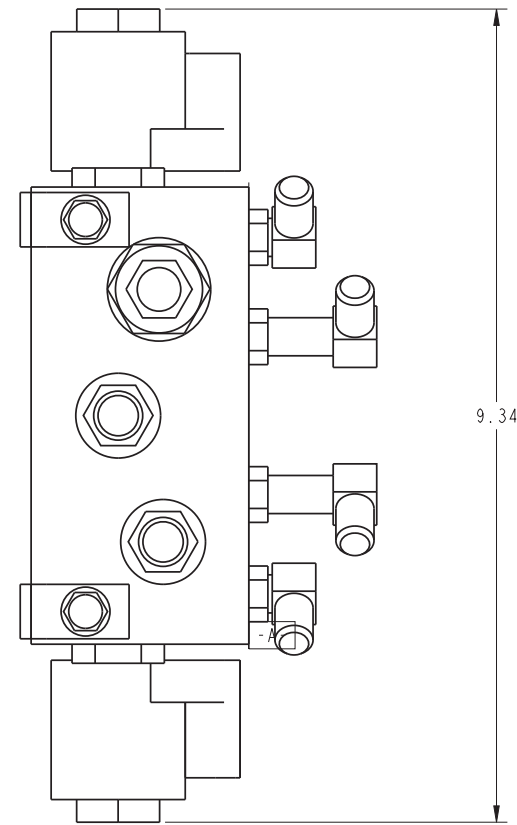
Appendix

MSS(EH)-FI-4

NOTES:
 FOLLOW TORQUE SPEC. DO NOT OVER TIGHTEN
 PORT ORB-4 TORQUE 14-16ft/lbs
 PORT ORB-6 TORQUE 24-26ft/lbs
 PORT C-8-4 TORQUE 25-30ft/lbs
 PORT C-10-3 TORQUE 35-38ft/lbs

SET REGULATOR PRESSURE TO 650 PSI

| ITEM | PART NO. | PART NAME | QTY | REF NO. | IND. WT. |
|------|----------|------------------------------------|-----|---------|----------|
| 1 | 043503 | ANGLE, MOUNTING HYDRAULIC MANIFOLD | 4 | | STK |
| 2 | 046228 | MANIFOLD ASSEMBLY | 1 | | STK |
| 3 | 304860 | PLUG, CAVITY C-8-4 | 5 | | STK |
| 4 | 305156 | SOLENOID VALVE SV1844M, 4WAY-2POS | 4 | | STK |
| 5 | 305590 | COIL, 24VDC | 4 | | STK |
| 6 | 309093 | REGULATOR, 1200PSI MAX | 1 | | STK |
| 7 | 350000 | WASHER, FLAT #10 | 4 | | SPLY |
| 8 | 350057 | SCREW, CAP 1/4-20 UNC X0.50 | 4 | | SPLY |
| 9 | 352481 | ADP JIC/ORB 4-4 90° | 4 | | STK |
| 10 | 352606 | ADP JIC/ORB 6-6 0° | 2 | | STK |
| 11 | 353475 | PLUG, ORB-4 | 10 | | STK |
| 12 | 355424 | ADP JIC/ORB 4-4 90° LNG | 4 | | STK |



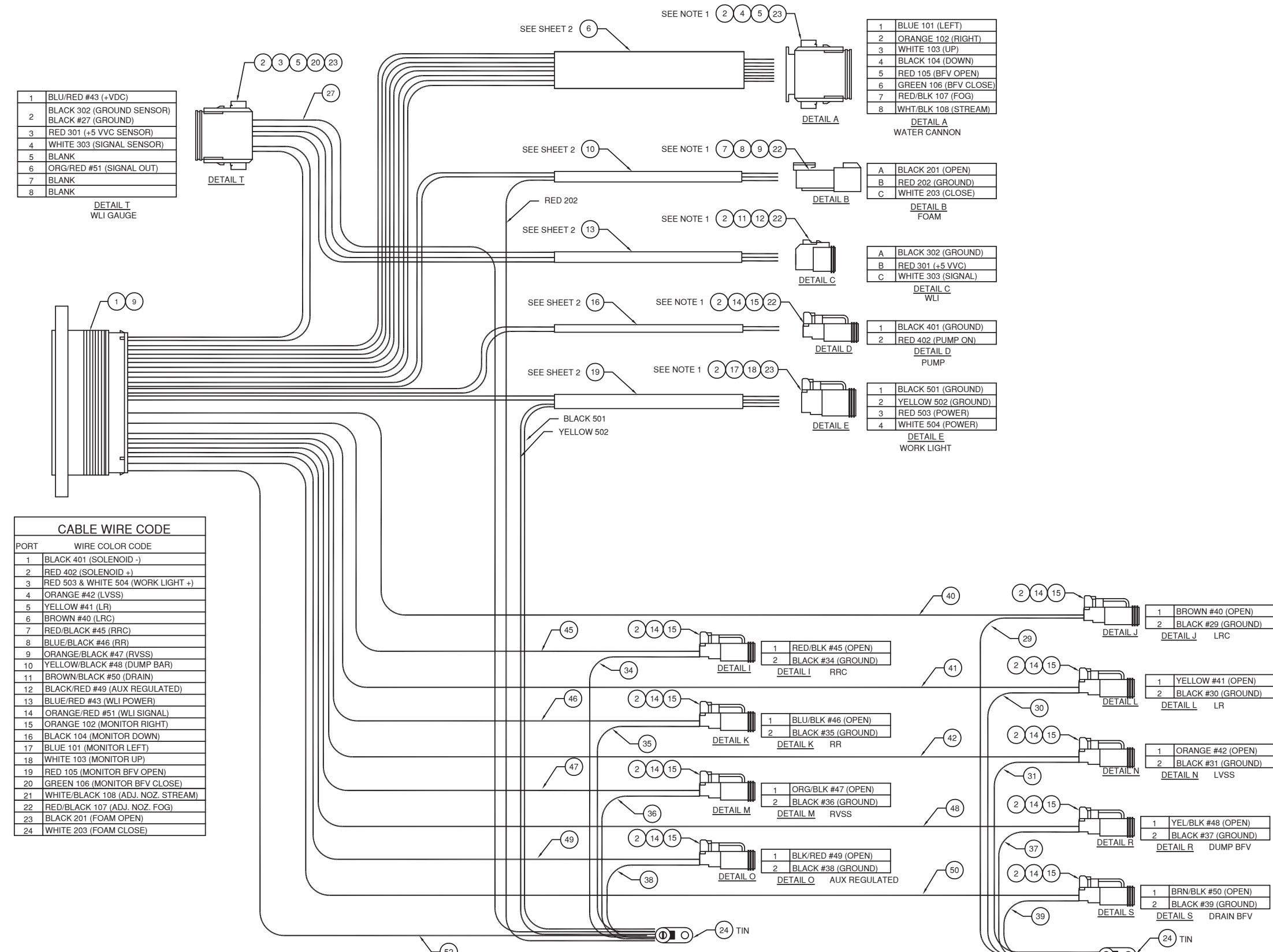
| REVISIONS | | | |
|-----------|--|-----------|----------|
| REV | DESCRIPTION | DATE | APPROVED |
| A | REMOVED 353264 & 353265, REPLACED 041091 WITH 046228 | May-08-12 | 11135 |
| B | MADE 7+2, ADD ITEMS FOR 4 REAR HEADS, NOT 2 | May-05-17 | RRH |
| C | REPLACE 304861>309093 | Nov-06-18 | 18108 |

| | | |
|--|--|--|
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| DWG. TITLE: MANIFOLD ASSEMBLY 7+2 STATION (4 HEAD) | | |
| SCALE: 0.500 DATE: 9-Sep-10 DWG. NO.: 044311 | | |
| DRAWN BY: DMG NOTE: SHEET 1 OF 1 | | |

Appendix

MSS(EH)-FI-4

NOTES:
1. LEAVE END LOOSE



| | |
|---|---|
| 1 | BLU/RED #43 (+VDC) |
| 2 | BLACK 302 (GROUND SENSOR) BLACK #27 (GROUND) |
| 3 | RED 301 (+5 VVC SENSOR) |
| 4 | WHITE 303 (SIGNAL SENSOR) |
| 5 | BLANK |
| 6 | ORG/RED #51 (SIGNAL OUT) |
| 7 | BLANK |
| 8 | BLANK |

DETAIL T
WLI GAUGE

| PORT | WIRE COLOR CODE |
|------|------------------------------------|
| 1 | BLACK 401 (SOLENOID -) |
| 2 | RED 402 (SOLENOID +) |
| 3 | RED 503 & WHITE 504 (WORK LIGHT +) |
| 4 | ORANGE #42 (LVSS) |
| 5 | YELLOW #41 (LR) |
| 6 | BROWN #40 (LRC) |
| 7 | RED/BLACK #45 (RRC) |
| 8 | BLUE/BLACK #46 (RR) |
| 9 | ORANGE/BLACK #47 (RVSS) |
| 10 | YELLOW/BLACK #48 (DUMP BAR) |
| 11 | BROWN/BLACK #50 (DRAIN) |
| 12 | BLACK/RED #49 (AUX REGULATED) |
| 13 | BLUE/RED #43 (WLI POWER) |
| 14 | ORANGE/RED #51 (WLI SIGNAL) |
| 15 | ORANGE 102 (MONITOR RIGHT) |
| 16 | BLACK 104 (MONITOR DOWN) |
| 17 | BLUE 101 (MONITOR LEFT) |
| 18 | WHITE 103 (MONITOR UP) |
| 19 | RED 105 (MONITOR BFV OPEN) |
| 20 | GREEN 106 (MONITOR BFV CLOSE) |
| 21 | WHITE/BLACK 108 (ADJ. NOZ. STREAM) |
| 22 | RED/BLACK 107 (ADJ. NOZ. FOG) |
| 23 | BLACK 201 (FOAM OPEN) |
| 24 | WHITE 203 (FOAM CLOSE) |

| | |
|---|-----------------------|
| 1 | BLUE 101 (LEFT) |
| 2 | ORANGE 102 (RIGHT) |
| 3 | WHITE 103 (UP) |
| 4 | BLACK 104 (DOWN) |
| 5 | RED 105 (BFV OPEN) |
| 6 | GREEN 106 (BFV CLOSE) |
| 7 | RED/BLK 107 (FOG) |
| 8 | WHT/BLK 108 (STREAM) |

DETAIL A
WATER CANNON

| | |
|---|-------------------|
| A | BLACK 201 (OPEN) |
| B | RED 202 (GROUND) |
| C | WHITE 203 (CLOSE) |

DETAIL B
FOAM

| | |
|---|--------------------|
| A | BLACK 302 (GROUND) |
| B | RED 301 (+5 VVC) |
| C | WHITE 303 (SIGNAL) |

DETAIL C
WLI

| | |
|---|--------------------|
| 1 | BLACK 401 (GROUND) |
| 2 | RED 402 (PUMP ON) |

DETAIL D
PUMP

| | |
|---|---------------------|
| 1 | BLACK 501 (GROUND) |
| 2 | YELLOW 502 (GROUND) |
| 3 | RED 503 (POWER) |
| 4 | WHITE 504 (POWER) |

DETAIL E
WORK LIGHT

| | |
|---|--------------------|
| 1 | BROWN #40 (OPEN) |
| 2 | BLACK #29 (GROUND) |

DETAIL J
LRC

| | |
|---|--------------------|
| 1 | YELLOW #41 (OPEN) |
| 2 | BLACK #30 (GROUND) |

DETAIL L
LR

| | |
|---|--------------------|
| 1 | ORANGE #42 (OPEN) |
| 2 | BLACK #31 (GROUND) |

DETAIL N
LVSS

| | |
|---|--------------------|
| 1 | YEL/BLK #48 (OPEN) |
| 2 | BLACK #37 (GROUND) |

DETAIL R
DUMP BFV

| | |
|---|--------------------|
| 1 | BRN/BLK #50 (OPEN) |
| 2 | BLACK #39 (GROUND) |

DETAIL S
DRAIN BFV

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|-----|----------|----------------------------------|-----|---------|-----|
| 1 | 304004 | 24 CON. BULKHEAD RECEPTACLE, DRC | 1 | | STK |
| 2 | 303380 | SOCKET, FEMALE DEUTSCH 16-20 | 42 | | SUP |
| 3 | 304287 | PLUG, 8 PIN DEUTSCH | 1 | | STK |
| 4 | 305007 | PLUG, 8 PIN DEUTSCH W/SHRINK | 1 | | STK |
| 5 | 304387 | WEDGE LOCK 8 SOCKET | 5 | | SUP |
| 6 | 303248 | CABLE, 8 CON 16GA | 60" | | SUP |
| 7 | 304464 | RECEPTACLE, 3 PIN DEUTSCH | 1 | | STK |
| 8 | 304465 | WEDGE LOCK 3 PIN | 1 | | SUP |
| 9 | 303366 | PIN, MALE DEUTSCH 16-18 | 27 | | SUP |
| 10 | 300497 | CABLE, 3 CON 16GA | 60" | | SUP |
| 11 | 303626 | PLUG, 3 PIN DEUTSCH | 1 | | STK |
| 12 | 304706 | WEDGE LOCK 3 SOCKET | 1 | | SUP |
| 13 | 306381 | CABLE, 3 CON 18GA | 60" | | SUP |
| 14 | 304285 | PLUG, 2 PIN DEUTSCH | 10 | | STK |
| 15 | 304385 | WEDGE LOCK 2 SOCKET | 10 | | SUP |
| 16 | 304138 | CABLE, 2 CON 16GA | 60" | | SUP |
| 17 | 304468 | PLUG, 4 PIN DEUTSCH | 1 | | STK |
| 18 | 304469 | WEDGE LOCK 4 SOCKET | 1 | | SUP |
| 19 | 306377 | CABLE, 4 CON 16GA | 60" | | SUP |
| 20 | 304471 | PIN BLANK | 3 | | SUP |
| 21 | | | | | |
| 22 | 305266 | HEAT SHRINK .44" X 6" | 3 | | SUP |
| 23 | 304727 | HEAT SHRINK .75" X 6" | 3 | | SUP |
| 24 | 305901 | GROUND LUG | 2 | | STK |
| 25 | | | | | |
| 26 | | | | | |
| 27 | 305202 | WIRE, SINGLE 16GA BLACK | ??" | | SUP |
| 28 | | | | | |
| 29 | 305202 | WIRE, SINGLE 16GA BLACK | ??" | | SUP |
| 30 | 305202 | WIRE, SINGLE 16GA BLACK | ??" | | SUP |
| 31 | 305202 | WIRE, SINGLE 16GA BLACK | ??" | | SUP |
| 32 | | | | | |
| 33 | | | | | |
| 34 | 305202 | WIRE, SINGLE 16GA BLACK | ??" | | SUP |
| 35 | 305202 | WIRE, SINGLE 16GA BLACK | ??" | | SUP |
| 36 | 305202 | WIRE, SINGLE 16GA BLACK | ??" | | SUP |
| 37 | 305202 | WIRE, SINGLE 16GA BLACK | ??" | | SUP |
| 38 | 305202 | WIRE, SINGLE 16GA BLACK | ??" | | SUP |
| 39 | 305202 | WIRE, SINGLE 16GA BLACK | ??" | | SUP |
| 40 | | WIRE, SINGLE 18GA BROWN | 3' | | SUP |
| 41 | | WIRE, SINGLE 18GA YELLOW | 3' | | SUP |
| 42 | | WIRE, SINGLE 18GA ORANGE | 3' | | SUP |
| 43 | | WIRE, SINGLE 18GA BLUE/RED | 3' | | SUP |
| 44 | | | | | |
| 45 | 308301 | WIRE, SINGLE 18GA RED/BLACK | 3' | | SUP |
| 46 | | WIRE, SINGLE 18GA BLUE/BLACK | 3' | | SUP |
| 47 | | WIRE, SINGLE 18GA ORANGE/BLACK | 3' | | SUP |
| 48 | | WIRE, SINGLE 18GA YELLOW/BLACK | 3' | | SUP |
| 49 | | WIRE, SINGLE 18GA BLACK/RED | 3' | | SUP |
| 50 | | WIRE, SINGLE 18GA BROWN/BLACK | 3' | | SUP |
| 51 | | WIRE, SINGLE 18GA ORANGE/RED | 3' | | SUP |

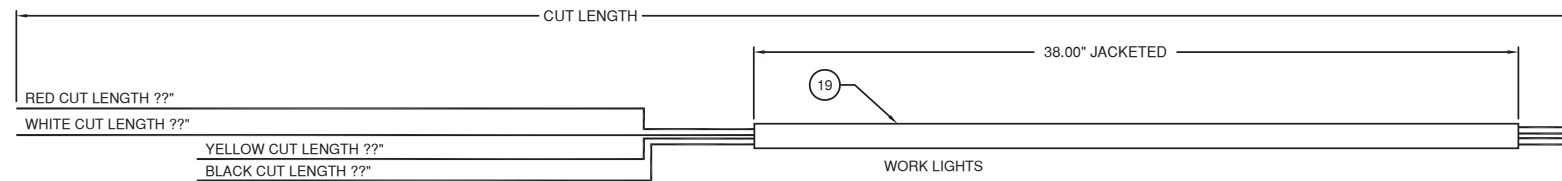
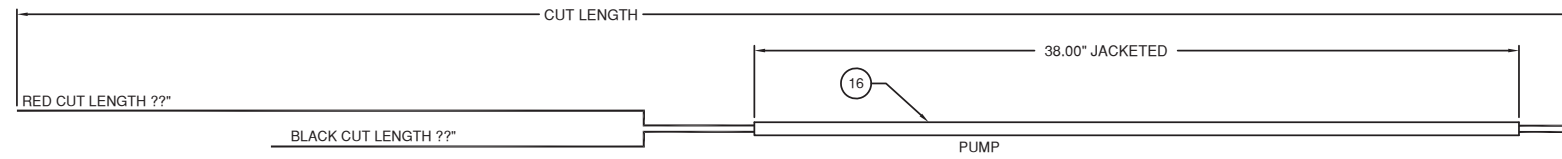
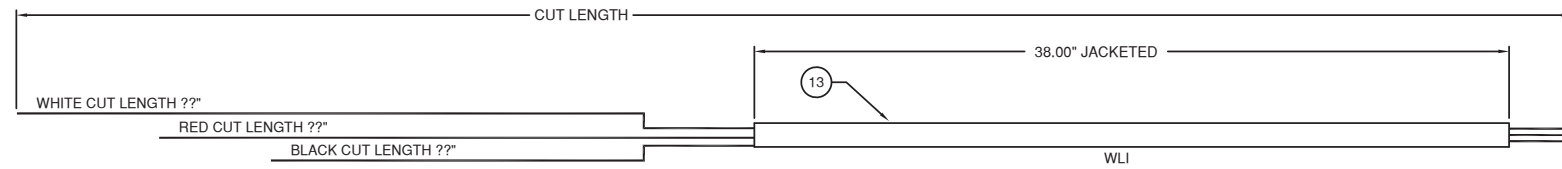
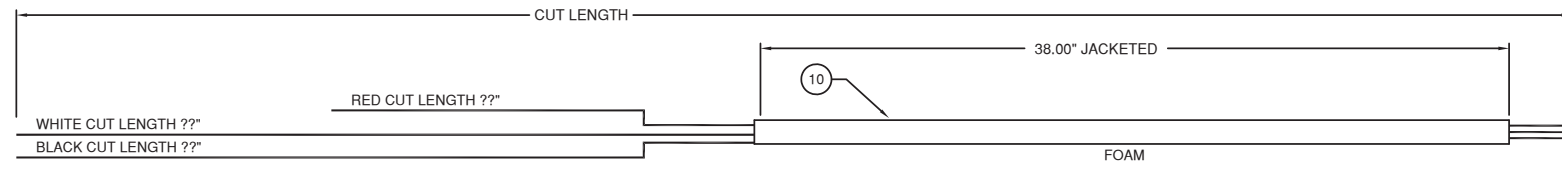
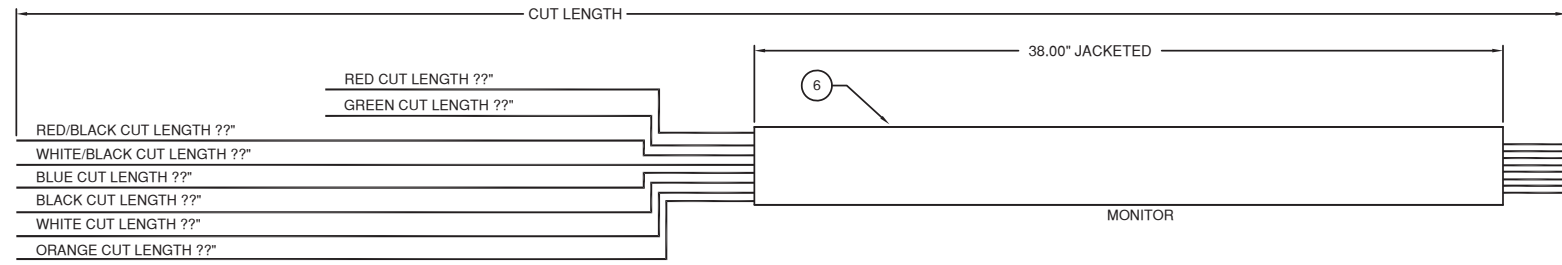
| REV | DESCRIPTION | DATE | APPROVED |
|-----|---|---------|----------|
| A | SWITCHED RIGHT AND LEFT SPRAYHEAD LOCATIONS | 6-1-17 | RRH |
| B | 303248 WAS 18GA (TYPO) | 5-11-18 | 18035 |
| C | 303248 300497 306381 304138 & 306377 WERE 84" | 6-6-18 | RRH |


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3 PLACES ± 0.010 2 PLACES ± 0.03 ANGULAR ± 1°

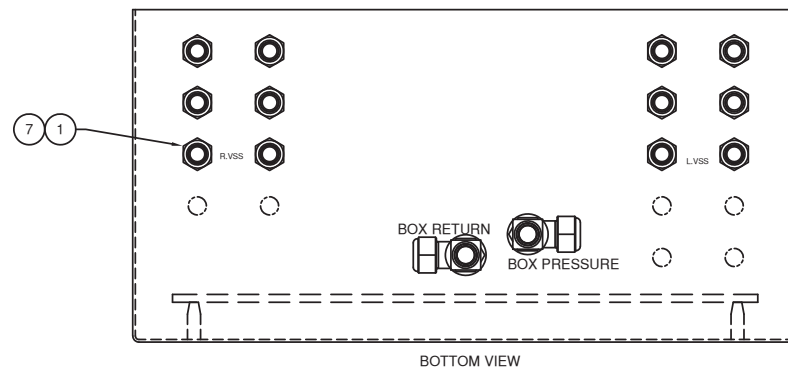
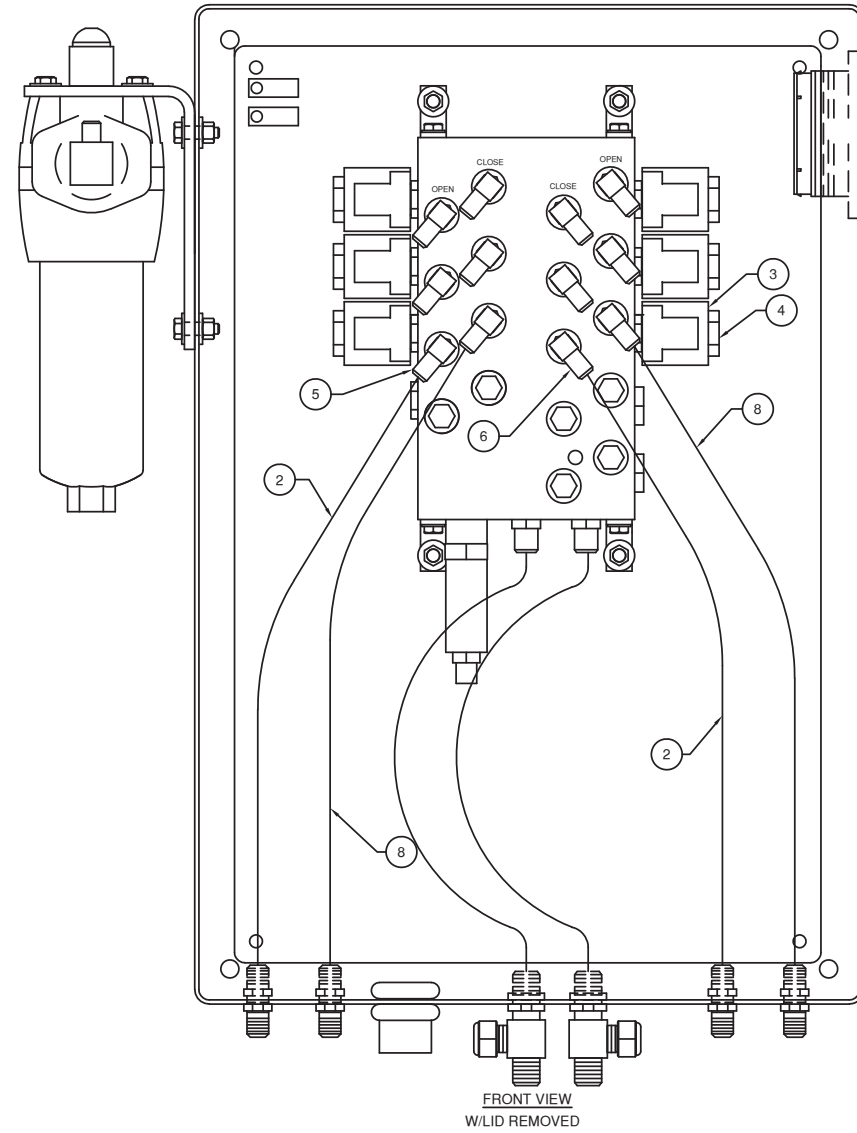
NAME OF JOB: SPRAY CONTROL SYSTEM, 7-2, BOTTOM HOSES
DRAWING TITLE: SOLENOID BOX WIRE HARNESS
SCALE: 1/2"=0-1 DATE: 5-15-17 DWG. No.:
DRAWN BY: RRH SHEET 1 OF 2 051845



| | | | |
|---|---|--------------|--|
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| | TOLERANCE: UNLESS OTHERWISE SPECIFIED | | |
| 3 PLACES ± 0.010 | 2 PLACES ± 0.03 | ANGULAR ± 1° | |
| NAME OF JOB: SPRAY CONTROL SYSTEM 7+2, BOTTOM HOSES | | | |
| DRAWING TITLE: SOLENOID BOX WIRE HARNESS | | | |
| SCALE: 1/2"=0'-1 | 5-15-17 | DWG. No.: | |
| DRAWN BY: RRH | SHEET 2 OF 2 | 051845 | |

BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|-----|----------|---------------------------|-----|---------|-----|
| 1 | 352641 | JIC/JIC 2041-4-4S BULKHD. | 4 | | STK |
| 2 | 043806 | HOSE ASSEMBLY 14.50" | 2 | | STK |
| 3 | 305590 | COIL, 24VDC | 2 | | STK |
| 4 | 305156 | SOLENOID VALVE 4WAY-2POS | 2 | | STK |
| 5 | 352481 | JIC/ORB -4-4 90° | 2 | | STK |
| 6 | 355424 | JIC/ORB -4-4 90° LONG | 2 | | STK |
| 7 | 353487 | JIC DUST CAP -4 | 4 | | SUP |
| 8 | 052041 | HOSE ASSEMBLY 15.00" | 2 | | STK |
| 9 | 353475 | PLUG, ORB -4 | -4 | | REM |
| 10 | 304860 | PLUG, CAVITY C-8-4 | -2 | | REM |



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3 PLACES ± 0.010 2 PLACES ± 0.03 ANGULAR ± 1°

NAME OF JOB: 7 + 2 SOL. BOX, BOTTOM HOSES

DRAWING TITLE: SOL. BOX MOD. FOR VSS INSTALL

SCALE: 1/2=0-1 5-15-17

DRAWN BY: RRH

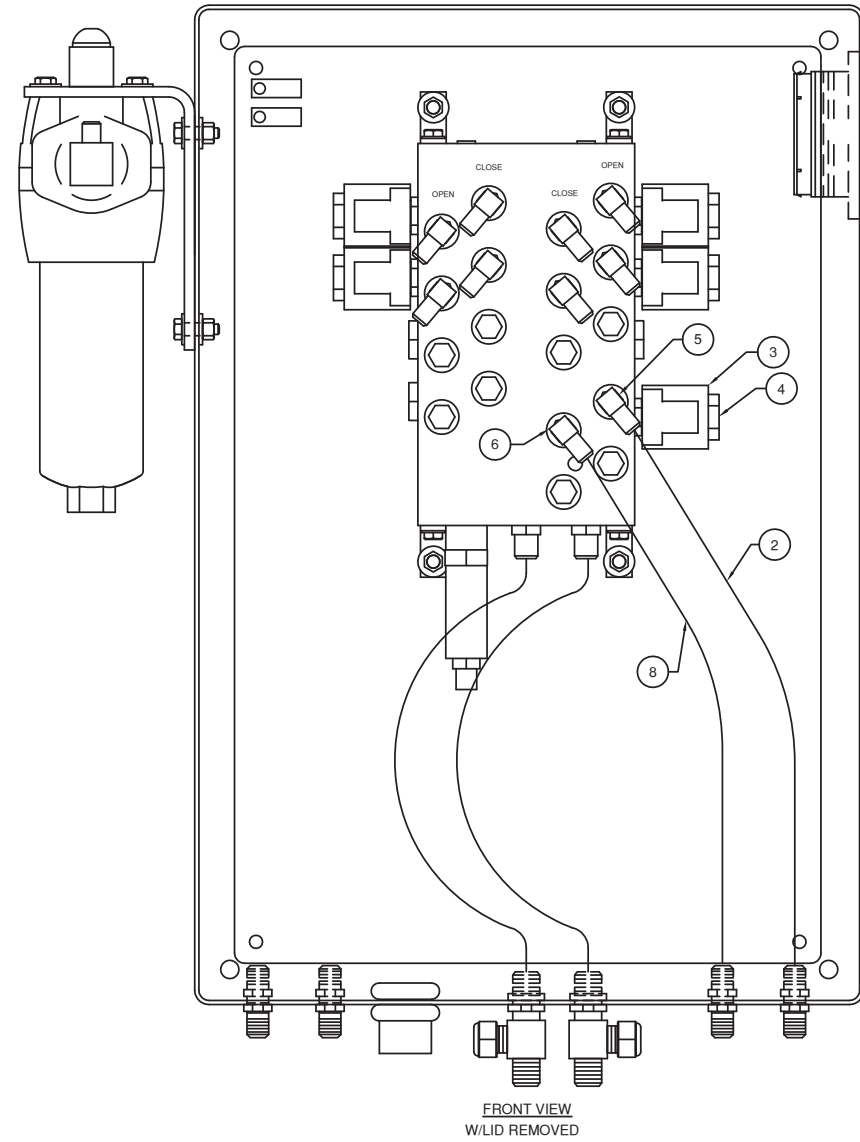
SHEET 1 OF 1

DWG. No.: 051846

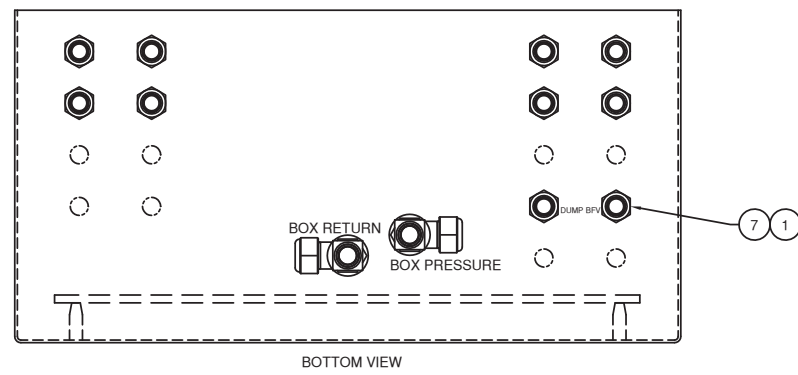
| REVISIONS | | | |
|-----------|--------------------------------------|---------|----------|
| REV | DESCRIPTION | DATE | APPROVED |
| A | 043806 WAS 043600, 052041 WAS 043601 | 7-19-17 | RRH |
| B | ITEM 8 TO STOCK | 11-6-17 | CSB |

BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|-----|----------|---------------------------|-----|---------|------|
| 1 | 352641 | JIC/JIC 2041-4-4S BULKHD. | 2 | | STK |
| 2 | 044347 | HOSE ASSEMBLY 13.50" | 1 | | STK |
| 3 | 305590 | COIL, 24VDC | 1 | | STK |
| 4 | 305156 | SOLENOID VALVE 4WAY-2POS | 1 | | STK |
| 5 | 352481 | JIC/ORB -4-4 90° | 1 | | STK |
| 6 | 355424 | JIC/ORB -4-4 90° LONG | 1 | | STK |
| 7 | 353487 | JIC DUST CAP -4 | 2 | | SPLY |
| 8 | 043808 | HOSE ASSEMBLY 13.00" | 1 | | STK |
| 9 | 353475 | PLUG, ORB -4 | -2 | | REM |
| 10 | 304860 | PLUG, CAVITY C-8-4 | -1 | | REM |



FRONT VIEW
W/LID REMOVED



BOTTOM VIEW

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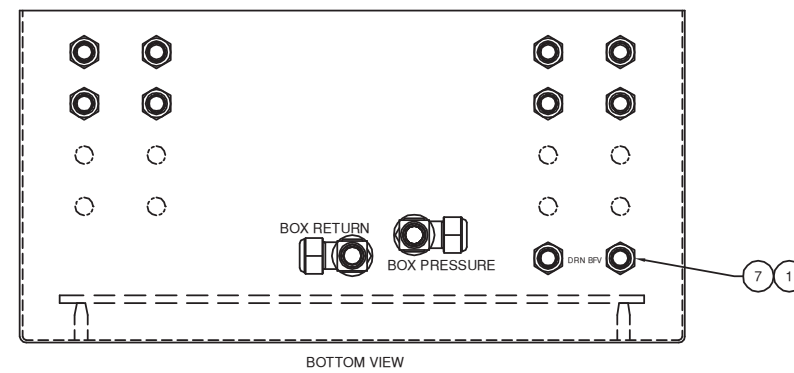
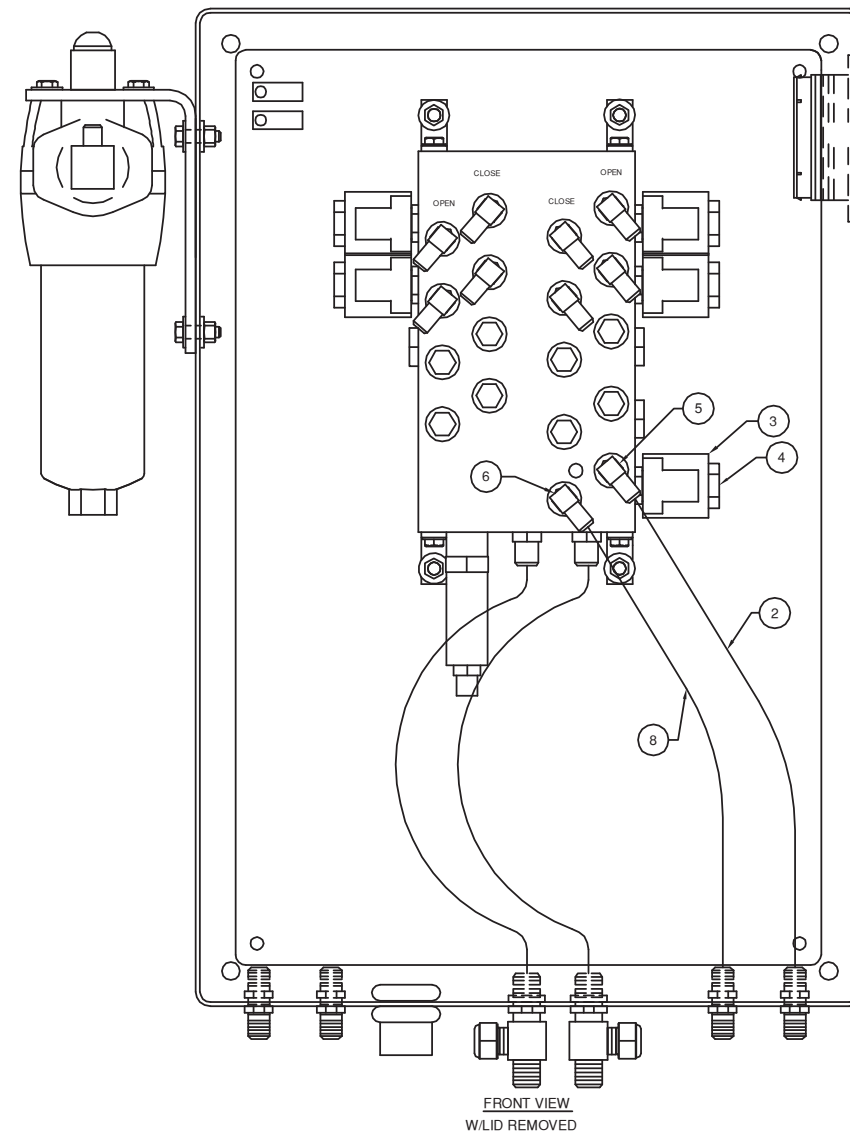
TOLERANCE: UNLESS OTHERWISE SPECIFIED
3 PLACES ± 0.010 2 PLACES ± 0.03 ANGULAR ± 1°

NAME OF JOB: 7 + 2 SOL. BOX
DRAWING TITLE: SOL. BOX MOD. FOR DUMP BAR B/V
SCALE: 1/2=0-1 5-15-17 DWG. No.: 051847
DRAWN BY: RRH SHEET 1 OF 1

| REVISIONS | | | |
|-----------|-------------------------------|---------|----------|
| REV | DESCRIPTION | DATE | APPROVED |
| A | 044374 AND 043808 WERE 043807 | 7-19-17 | RRH |

BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|-----|----------|---------------------------|-----|---------|-----|
| 1 | 352641 | JIC/JIC 2041-4-4S BULKHD. | 2 | | STK |
| 2 | 052042 | HOSE ASSEMBLY 12.50" | 1 | | STK |
| 3 | 305590 | COIL, 24VDC | 1 | | STK |
| 4 | 305156 | SOLENOID VALVE 4WAY-2POS | 1 | | STK |
| 5 | 352481 | JIC/ORB -4-4 90° | 1 | | STK |
| 6 | 355424 | JIC/ORB -4-4 90° LONG | 1 | | STK |
| 7 | 353487 | JIC DUST CAP -4 | 2 | | SUP |
| 8 | 043809 | HOSE ASSEMBLY 12.00" | 1 | | STK |
| 9 | 353475 | PLUG, ORB -4 | -2 | | REM |
| 10 | 304860 | PLUG, CAVITY C-8-4 | -1 | | REM |



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

NAME OF JOB: 7 + 2 SOL. BOX, BOTTOM HOSES

DRAWING TITLE: SOL. BOX MOD. FOR DRAIN BFV

SCALE: 1/2=0-1 5-15-17 DWG. No.: 051848

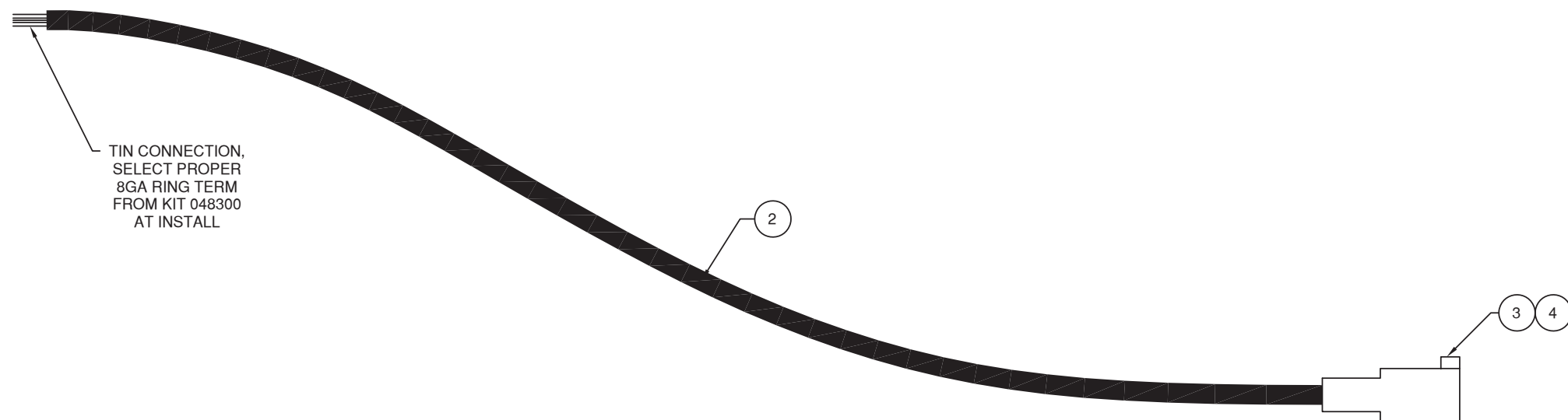
DRAWN BY: RRH SHEET 1 OF 1

| REVISIONS | | | | |
|-----------|--------------------------------------|---------|----------|--|
| REV | DESCRIPTION | DATE | APPROVED | |
| A | 052042 WAS 043809, 043809 WAS 044347 | 7-19-17 | RRH | |

Appendix

MSS(EH)-FI-4

| | NO. | PART NO. | DESCRIPTION | QTY. | REF. NO. | WEIGHT |
|--------|-----|-----------|-----------------------------------|------|----------|--------|
| | 1 | | | | | |
| 046086 | 2 | 046086-01 | SINGLE CON WIRE, 8GA BLACK X 20' | 20' | 306376 | SUP |
| 048495 | 2 | 048495-01 | SINGLE CON WIRE, 8GA BLACK X 35' | 35' | 306376 | SUP |
| | 2 | | | | | |
| | 2 | | | | | |
| | 3 | 306367 | SINGLE CON RECEPSCLE, 8GA DEUTSCH | 1 | | STK |
| | 4 | 306368 | PIN, 8GA DEUTSCH | 1 | | STK |



| REVISIONS | | | |
|-----------|------------------------------|----------|----------|
| REV | DESCRIPTION | DATE | APPROVED |
| A | REMOVED 306380 | 6-10-14 | 14038 |
| A | CABLE CHANGED TO DASH NUMBER | 10-12-18 | 18093 |



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| SCALE | DESIGNED BY | PRINT RECORD | | |
|-------------|-------------|--------------|-----|---------|
| | | NO. | FOR | TO SHOP |
| DATE DRAWN | DRAWN BY | | | |
| 3-19-12 | RRH | | | |
| DATE APPRV. | APPRV. BY | | | |
| | | | | |

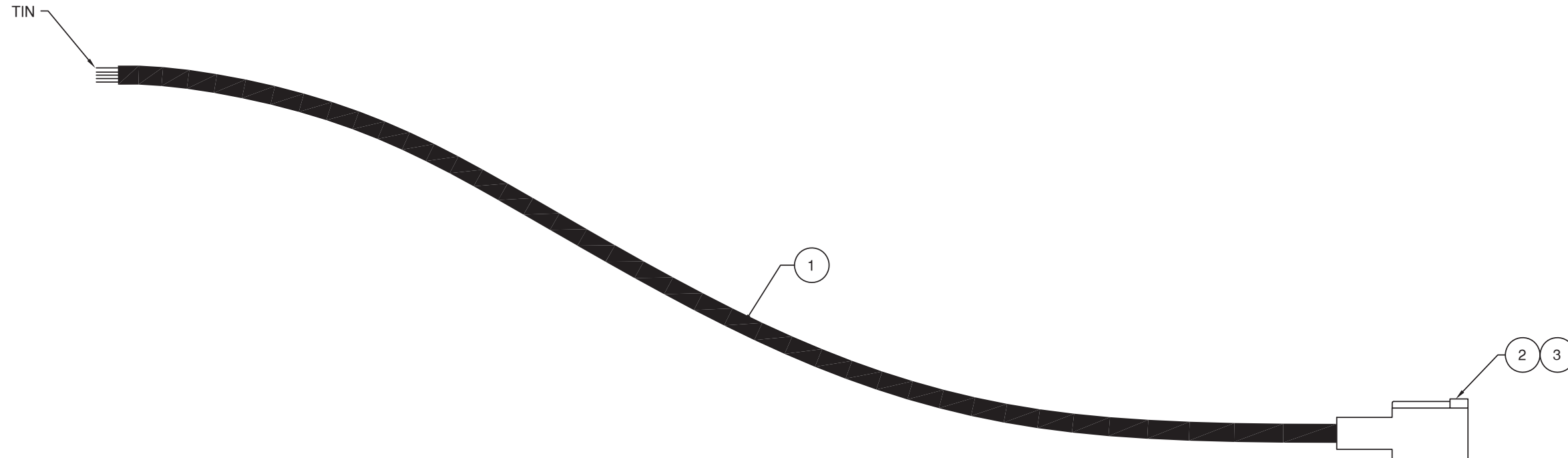
| | |
|--|---------|
| CUSTOMER _____ | JOB NO. |
| LOCATION _____ | |
| NAME OF JOB <u>SPRAY SYSTEM CONTROL</u> | |
| DWG. DESCRIPTION <u>GROUND CABLE, TO CHASSIS</u> | |

DWG. NO.
046086

Appendix

MSS(EH)-FI-4

| | NO. | PART NO. | DESCRIPTION | QTY | REF | WT |
|--------|-----|-----------|----------------------------------|-----|--------|-----|
| 046063 | 1 | 046063-01 | SINGLE CON WIRE, 8GA BLACK x 84" | 1 | 306376 | SUP |
| 053322 | 1 | 053322-01 | SINGLE CON WIRE, 8GA BLACK x 41" | 1 | 306376 | SUP |
| | 2 | 306366 | SINGLE CON PLUG, 8GA DEUTSCH | 1 | | STK |
| | 3 | 306369 | SOCKET, 8GA DEUTSCH | 1 | | STK |



| REVISIONS | | | |
|-----------|-------------------------|----------|----------|
| REV | DESCRIPTION | DATE | APPROVED |
| A | CABLE CHANGED TO DASH # | 10-12-18 | 18093 |



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| SCALE | DESIGNED BY | PRINT RECORD | | |
|-------------|-------------|--------------|-----|---------|
| | | NO. | FOR | TO SHOP |
| DATE DRAWN | DRAWN BY | | | |
| 3-19-12 | RRH | | | |
| DATE APPRV. | APPRV. BY | | | |
| | | | | |

CUSTOMER _____

LOCATION _____

NAME OF JOB SPRAY SYSTEM CONTROL

DWG. DESCRIPTION GROUND CABLE PIGTALE

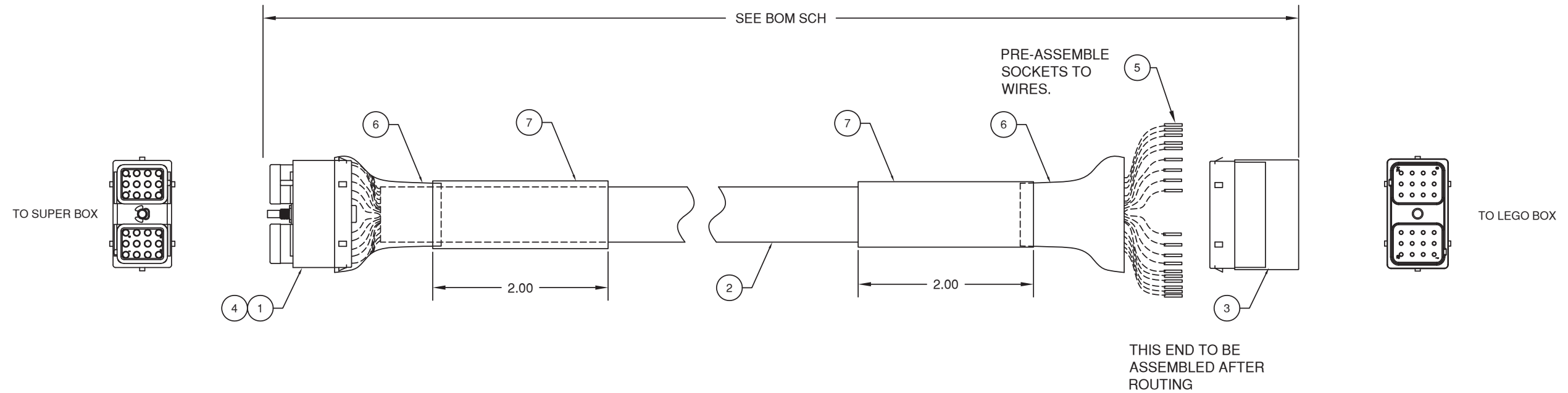
JOB NO. _____

DWG. NO. _____

046063

BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|--------|----------|--------------------------------|----------------------------|---------|-----|
| 1 | 305844 | PLUG, 24 PIN, DRC SERIES | 1 | | STK |
| 051837 | 2 | 308301 | CABLE, 18GA 25CON X 21'-0" | 1 | SUP |
| 051838 | 2 | 308301 | CABLE, 18GA 25CON X 30'-0" | 1 | SUP |
| 051839 | 2 | 308301 | CABLE, 18GA 25CON X 25'-0" | 1 | SUP |
| 051890 | 2 | 308301 | CABLE, 18GA 25CON X 16'-0" | 1 | SUP |
| 052150 | 2 | 308301 | CABLE, 18GA 25CON X 33'-0" | 1 | SUP |
| 052399 | 2 | 308301 | CABLE, 18GA 25CON X 35'-0" | 1 | SUP |
| 3 | 306152 | RECEPTACLE, 24 PIN, DRC SERIES | 1 | | STK |
| 4 | 303380 | SOCKET, FEMALE, DEUTSCH | 24 | | SUP |
| 5 | 303366 | PIN, MALE, DEUTSCH | 24 | | SUP |
| 6 | 306153 | BOOT | 2 | | STK |
| 7 | 305267 | HEAT SHRINK 4" | 2 | | SUP |



| | | |
|--------|---------|--------------------------------------|
| PIN 1 | BLACK | 24 CONDUCTOR (ITEM 1) (ITEM 3) |
| PIN 2 | RED | |
| PIN 3 | BLUE | |
| PIN 4 | ORANGE | |
| PIN 5 | YELLOW | |
| PIN 6 | BROWN | |
| PIN 7 | RED/BLK | |
| PIN 8 | BLU/BLK | |
| PIN 9 | ORG/BLK | |
| PIN 10 | YEL/BLK | |
| PIN 11 | BRN/BLK | |
| PIN 12 | BLK/RED | |
| PIN 13 | BLU/RED | |
| PIN 14 | ORG/RED | |
| PIN 15 | YEL/RED | |
| PIN 16 | BRN/RED | |
| PIN 17 | BLK/BLU | |
| PIN 18 | RED/BLU | |
| PIN 19 | ORG/BLU | |
| PIN 20 | YEL/BLU | |
| PIN 21 | BRN/BLU | |
| PIN 22 | BLK/ORG | |
| PIN 23 | RED/ORG | |
| PIN 24 | BLU/ORG | |
| | YEL/ORG | NOT USED |

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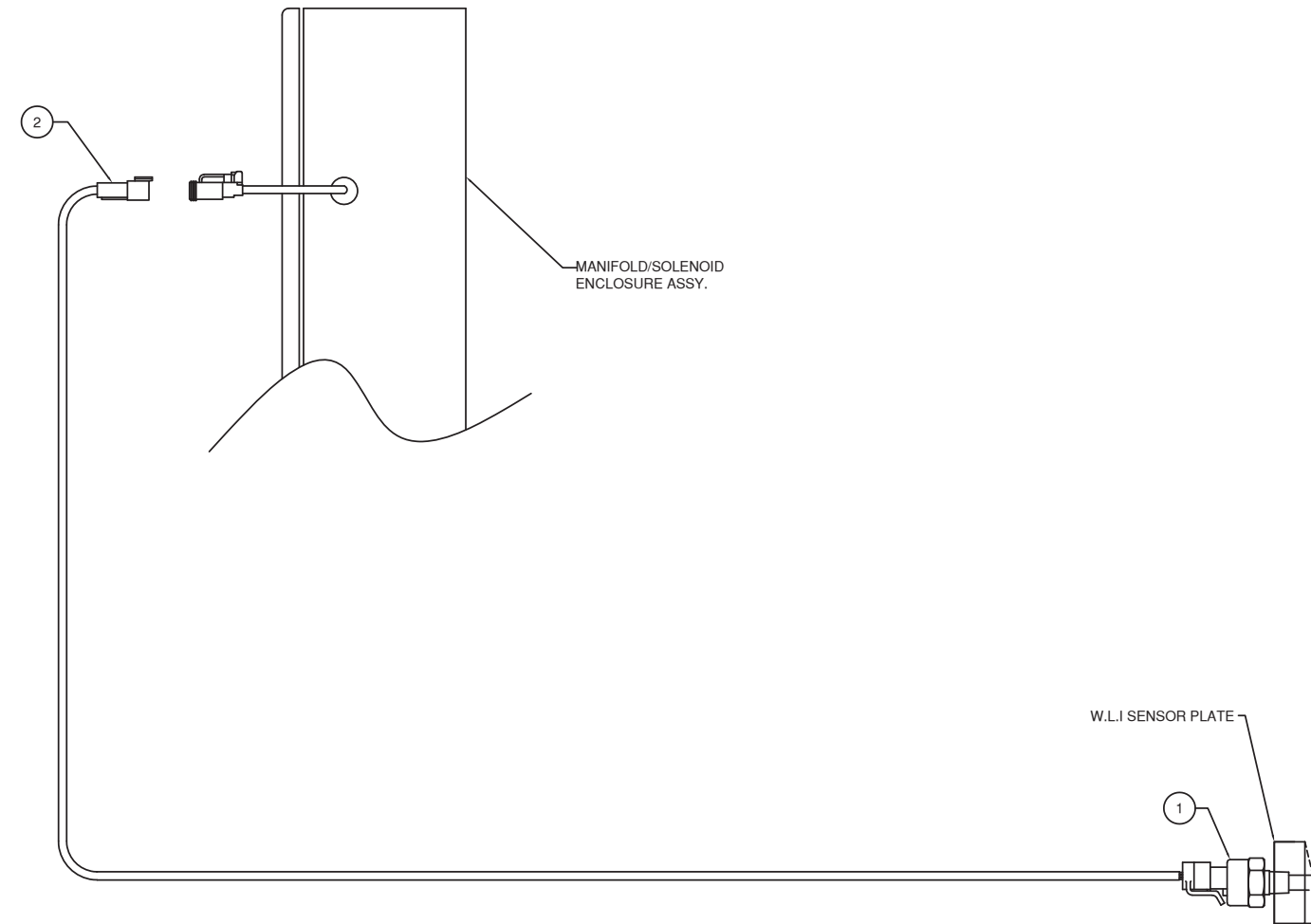
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| | | |
|---------------------------------------|-----------------|----------------|
| TOLERANCE: UNLESS OTHERWISE SPECIFIED | | |
| 3 PLACES ± 0.010 | 2 PLACES ± 0.03 | ANGULAR ± 1° |
| NAME OF JOB: LEGO CONTROL BOX | | |
| DRAWING TITLE: 24 PIN EXTENSION CABLE | | |
| SCALE: NONE | DATE: 5-12-17 | DWG NO. 051837 |
| DRAWN BY: LAP | | SHEET 1 OF 1 |

| REVISIONS | | | |
|-----------|--------------------------------------|----------|----------|
| REV | DESCRIPTION | DATE | APPROVED |
| A | REPLACED 305844 (ITEM 3) WITH 306152 | 06-05-17 | LAP |

BILL OF MATERIAL

| ITEM | Part No. | Description | Qty. | Ref. No. | Wt. |
|------|----------|---------------------------|------|----------|-----|
| 1 | 303822 | TANK VOLUME SENSOR | 1 | | STK |
| 2 | 039768 | WATER LEVEL INDICATOR 20' | 1 | 039594 | REF |
| 3 | | | | | |



SECTIONAL SIDE VIEW

SEE WELDON DRAWING FOR W.L.I SENSOR PLATE LOCATION.

| REVISIONS | | | |
|-----------|--------------------------------|-----------|-------|
| REV | DESCRIPTION | DATE | ECR |
| A | ITEM 6 WAS 043526 (REF 043525) | Apr-28-10 | RRH |
| B | REMOVED WIRING DIAGRAM | Nov-02-10 | DMG |
| C | REMOVED 024635 & 041461 | Dec-13-10 | 11007 |
| D | ADDED CALIBRATION UNIT #3 | Mar-07-11 | DMG |
| E | CHGD. CABLE TO STK. 039594 | Sep-22-11 | DMG |
| F | 303824 -> 308222 | Mar-01-17 | 17015 |
| G | RMV 308222 | 16-APR-17 | 18027 |

PRODUCED FROM 038517



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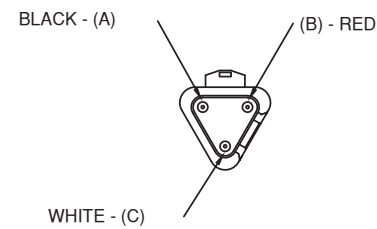
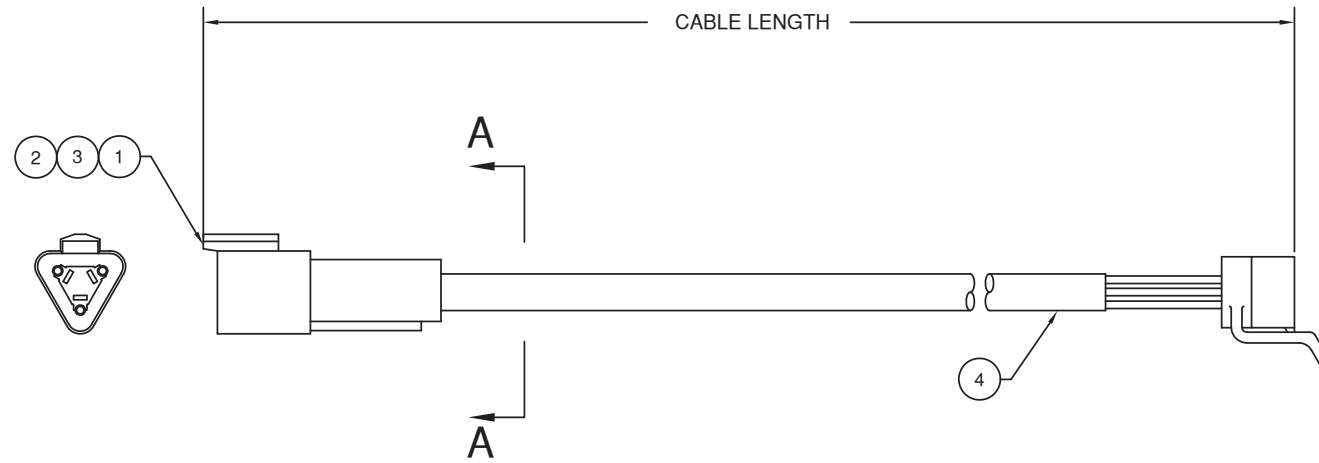
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| | | |
|---|-----------------|-----------------|
| TOLERANCE: UNLESS OTHERWISE SPECIFIED | | |
| 3 PLACES ± 0.010 | 2 PLACES ± 0.03 | ANGULAR ± 1° |
| DRAWING TITLE: WATER LEVEL INDICATOR W/GAUGE IN CAB | | |
| SCALE: NONE | DATE: Feb-11-10 | DWG. No. 043627 |
| DRAWN BY: DMG | SHEET 1 OF 1 | |

BILL OF MATERIAL

OBSOLETE

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|-------------------|--------------|-------------------|---------------------------------------|--------------|----------------|
| CABLE ASSY | 1 | 304464 | RECEPTACLE, 3 PIN (DEUTSCH) | 1 | STK |
| | 2 | 304465 | WEDGE LOCK, 3 PIN | 1 | SUP |
| | 3 | 303366 | PIN, MALE, 16-18 GA. | 3 | SUP |
| 039594 | 4 | 303825 | WLI CABLE, 3 COND' X 30ft. | 1 | STK |
| 039767 | 4 | 304272 | WLI CABLE, 3 COND' X 12ft. | 1 | STK |
| 039768 | 4 | 304591 | WLI CABLE, 3 COND' X 20ft. | 1 | STK |
| 039769 | 4 | 304592 | WLI CABLE, 3 COND' X 50ft. | 1 | STK |
| 041485 | 4 | 304272 | WLI CABLE, 3 COND' X 4ft. | 1 | STK |



VIEW A-A



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

| REVISIONS | | | | NAME OF JOB: 3 COND. 30ft. CABLE ASSY. STRAIGHT AIR BOX | | |
|-----------|---------------------------|----------|----------|---|--------|----------|
| REV | DESCRIPTION | DATE | APPROVED | DRAWING TITLE: | SCALE: | DATE: |
| A | ITEM 4 WAS 304678 | 08/17/06 | PRF | WATER LEVEL INDICATOR (RECEPTACLE END) | NTS | 10-06-05 |
| B | CHANGED GREEN WIRE TO RED | 04/11/08 | RED | | | |
| C | MADE 12' OBSOLETE | 05/14/08 | TCS | | | |

DWG. No. 039594
 SHEET 1 OF 1

NOTES:

- SWITCH COVERS ARE STOCKED.
- SEE REFERENCE CODE ON COVER SHEET FOR UNIT OPTIONS.
- FOR CHARACTERS 1 THRU 5, CODE REPRESENTS IF SWITCH IS PRESENT OR REMOVED AND REPLACED WITH COVER (ITEM 3).

EXAMPLES:

CHARACTER 2

- A- SYSTEM WITH FOAM AGENT AND FOG/STREAM.
- B- SYSTEM WITH JOYSTICK NO FOAM, AND NO FOG/STREAM.
- C- SYSTEM WITH NO FOAM, BUT HAS FOG/STREAM.
- D- NO JOYSTICK SO THEREFORE NO SWITCHES.

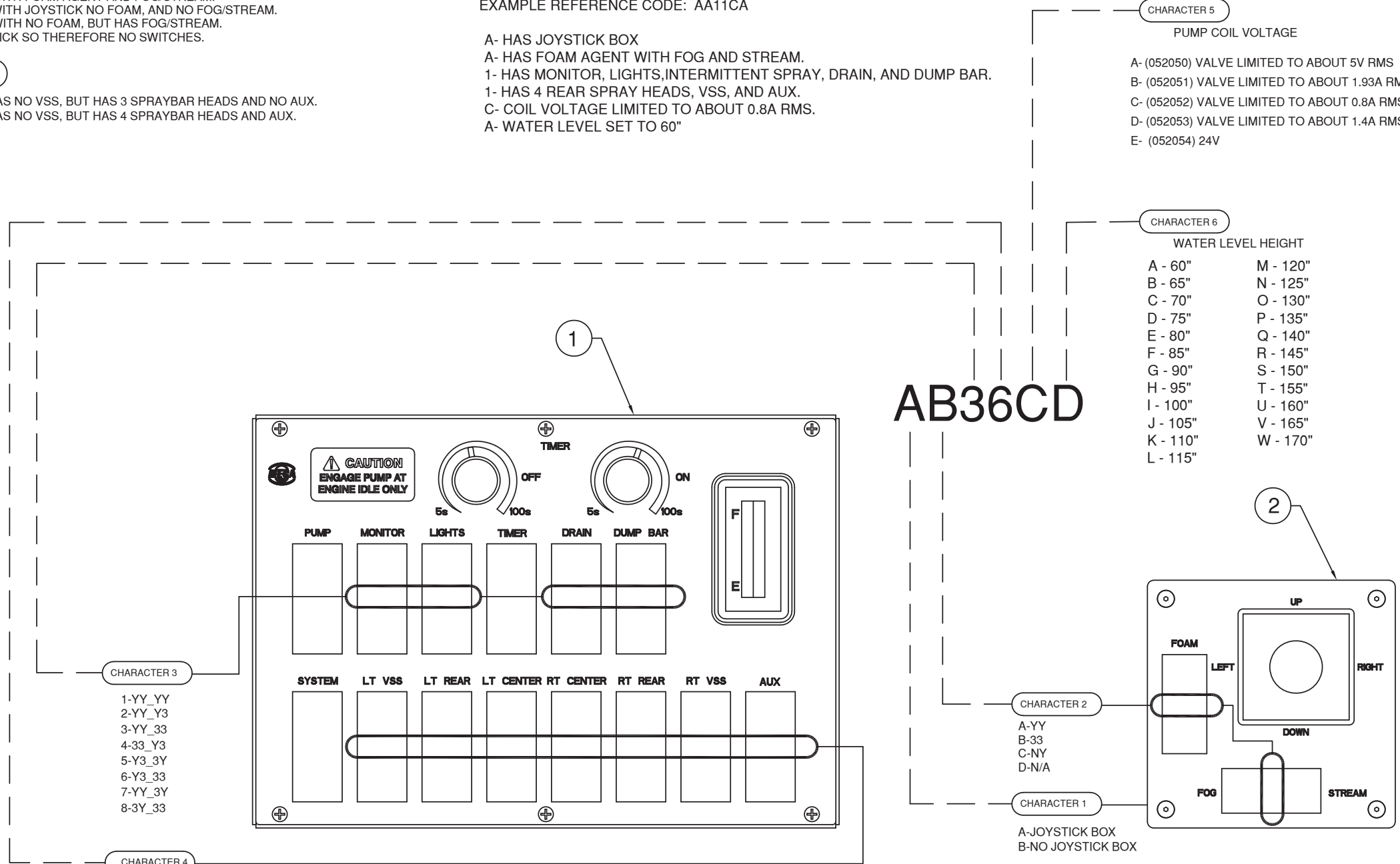
CHARACTER 4

- 3-SYSTEM HAS NO VSS, BUT HAS 3 SPRAYBAR HEADS AND NO AUX.
- 4-SYSTEM HAS NO VSS, BUT HAS 4 SPRAYBAR HEADS AND AUX.

EXAMPLE REFERENCE CODE: AA11CA

- A- HAS JOYSTICK BOX
- A- HAS FOAM AGENT WITH FOG AND STREAM.
- 1- HAS MONITOR, LIGHTS, INTERMITTENT SPRAY, DRAIN, AND DUMP BAR.
- 1- HAS 4 REAR SPRAY HEADS, VSS, AND AUX.
- C- COIL VOLTAGE LIMITED TO ABOUT 0.8A RMS.
- A- WATER LEVEL SET TO 60"

| BILL OF MATERIAL | | | | | |
|------------------|----------|--------------------------|-----|---------|-----|
| No. | Part No. | PART NAME | QTY | REF No. | WT. |
| 1 | 051380 | SWITCH BOX, LEGO | 1 | | STK |
| 2 | 051385 | JOY STICK BOX, LEGO | 1 | | STK |
| 3 | 303128 | COVER, SWITCH | AR | | STK |
| 4 | CHAR 5 | CONFIG INST, DRIVER CARD | 1 | 052050 | REF |



- CHARACTER 3
- 1-YY_YY
 - 2-YY_Y3
 - 3-YY_33
 - 4-33_Y3
 - 5-Y3_3Y
 - 6-Y3_33
 - 7-YY_3Y
 - 8-3Y_33

- CHARACTER 4
- 1-YYYYYY
 - 2-3YYYY3
 - 3-3 HEADS USE 051885
 - 4-3YYYY3Y
 - 5-3 HEADS USE 051885
 - 6-YYYYY3
 - 7-3 HEADS USE 051885

CHARACTER 5

- PUMP COIL VOLTAGE
- A- (052050) VALVE LIMITED TO ABOUT 5V RMS
 - B- (052051) VALVE LIMITED TO ABOUT 1.93A RMS
 - C- (052052) VALVE LIMITED TO ABOUT 0.8A RMS
 - D- (052053) VALVE LIMITED TO ABOUT 1.4A RMS
 - E- (052054) 24V

CHARACTER 6

- WATER LEVEL HEIGHT
- A - 60"
 - B - 65"
 - C - 70"
 - D - 75"
 - E - 80"
 - F - 85"
 - G - 90"
 - H - 95"
 - I - 100"
 - J - 105"
 - K - 110"
 - L - 115"
 - M - 120"
 - N - 125"
 - O - 130"
 - P - 135"
 - Q - 140"
 - R - 145"
 - S - 150"
 - T - 155"
 - U - 160"
 - V - 165"
 - W - 170"

AB36CD

- CHARACTER 2
- A-YY
 - B-33
 - C-NY
 - D-N/A

- CHARACTER 1
- A-JOYSTICK BOX
 - B-NO JOYSTICK BOX

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TOLERANCE: UNLESS OTHERWISE SPECIFIED

3 PLACES ± 0.010 2 PLACES ± 0.03 ANGULAR ± 1°

| REV | DESCRIPTION | DATE | APPROVED |
|-----|---|-----------|----------|
| A | REMOVED TIMER SWITCH FROM CODE | 7-19-17 | LAP/RRH |
| B | ADDED 052050 | 21-8-Y-17 | TCS |
| C | CORRECTED COVER # FROM 306409 TO 303128 | 8-25-17 | LAP |
| D | ADDED CHARACTER 6 | 12-17-18 | 18061 |

| | |
|---------------------------------------|------------------|
| NAME OF JOB: SWITCH AND JOY STICK BOX | DWG. No.: 051856 |
| DRAWING TITLE: ALL WATER | |
| SCALE: FULL | DATE: 05-18-17 |
| DRAWN BY: LAP | SHEET 1 OF 1 |

| PART NUMBER | CONFIGURATION FILE | OUTPUT |
|-------------|--------------------|-------------|
| 052050 | CAT SCRAPER.XML | 1.25±0.10 A |
| 052051 | CAT MTT.XML | 1.93±0.10 A |
| 052052 | KOMATSU.XML | 0.80±0.10 A |
| 052053 | CAT MAC.XML | 1.4±0.10 A |
| 052054 | 24V.XML | 24±0.5V |

SIMPLE CONFIGURATION

1. TURN ON NFC DEVICE AND ACTIVATE PROGRAMMING SOFTWARE (E-WRITE NFC).
2. REMOVE DRIVER CARD FROM CARDBOARD PACKAGING. IT IS NOT NECESSARY TO REMOVE THE PACKING WRAP.
3. SELECT FOLDER ICON TO LOAD CONFIGURATION FILE.
4. SELECT THE CONFIGURATION FILE TO MATCH THE PART NUMBER IN THE TABLE ON THE RIGHT.
5. DRAG FROM THE LEFT OF THE SCREEN TO BRING UP MAIN MENU.
6. SELECT "WRITE TO NFC CONTROLLER."
7. PLACE NFC DEVICE WITHIN 1 INCH OF DRIVER CARD ANTENNA.
8. ONCE THE NFC DEVICE DISPLAYS A MESSAGE INDICATING SUCCESS, THE DRIVER CARD IS CONFIGURED.
9. TEST PER PROCEDURE AS SPECIFIED

052050 CONFIGURATION PARAMETERS

INPUT CONFIGURATION

INPUT TYPE: DIGITAL NORMAL
 ERROR DETECTION: FALSE
 PULSES PER REVOLUTION: 0
 MINIMUM ERROR: 0.00
 MINIMUM RANGE: 0.00
 MAXIMUM RANGE: 1.00
 MAXIMUM ERROR: 1.00
 ERROR HYSTERESIS: 0.50
 DIGITAL DEBOUNCE TIME: 0
 PULLUP/PULLDOWN: 10KOHM PULLDOWN
 INPUT FILTER TYPE: NOT USED
 INPUT FILTER CONSTANT:1

LOOKUP TABLE CONFIGURATION

CONTROL SOURCE: NOT USED

OUTPUT CONFIGURATION

CONTROL SOURCE: UNIVERSAL INPUT
 OUTPUT TYPE: PROPORTIONAL CURRENT
 OUTPUT AT MIN COMMAND: 0 MA
 OUTPUT AS MAX COMMAND: 1250MA
 RAMP UP TIME: 6000 MS
 RAMP DOWN TIME: 6000 MS
 OUTPUT FREQUENCY: 25000 HZ
 DITHER FREQUENCY: 100 HZ
 DITHER AMPLITUDE: 225 MA
 HOTSHOT TIME: 1000 MS
 HOTSHOT CURRENT: 1500 MA

NOTE: THE ABOVE PARAMETERS ARE CONTAINED IN THE CONFIGURATION FILES AND ARE ONLY INCLUDED FOR SITUATIONS IN WHICH THE FILES ARE HARD TO ACCESS OR LOST.
 SOFTWARE IS CALLED E-WRITE NFC AND IS AVAILABLE ON THE GOOGLE PLAY STORE.

052051 CONFIGURATION PARAMETERS

INPUT CONFIGURATION

INPUT TYPE: DIGITAL NORMAL
 ERROR DETECTION: FALSE
 PULSES PER REVOLUTION: 0
 MINIMUM ERROR: 0.00
 MINIMUM RANGE: 0.00
 MAXIMUM RANGE: 1.00
 MAXIMUM ERROR: 1.00
 ERROR HYSTERESIS: 0.50
 DIGITAL DEBOUNCE TIME: 0
 PULLUP/PULLDOWN: 10KOHM PULLDOWN
 INPUT FILTER TYPE: NOT USED
 INPUT FILTER CONSTANT:1

LOOKUP TABLE CONFIGURATION

CONTROL SOURCE: NOT USED

OUTPUT CONFIGURATION

CONTROL SOURCE: UNIVERSAL INPUT
 OUTPUT TYPE: PROPORTIONAL CURRENT
 OUTPUT AT MIN COMMAND: 0 MA
 OUTPUT AS MAX COMMAND: 1930 MA
 RAMP UP TIME: 6000 MS
 RAMP DOWN TIME: 6000 MS
 OUTPUT FREQUENCY: 25000 HZ
 DITHER FREQUENCY: 100 HZ
 DITHER AMPLITUDE: 225 MA
 HOTSHOT TIME: 1000 MS
 HOTSHOT CURRENT: 1500 MA

NOTE: THE ABOVE PARAMETERS ARE CONTAINED IN THE CONFIGURATION FILES AND ARE ONLY INCLUDED FOR SITUATIONS IN WHICH THE FILES ARE HARD TO ACCESS OR LOST.
 SOFTWARE IS CALLED E-WRITE NFC AND IS AVAILABLE ON THE GOOGLE PLAY STORE.

052052 CONFIGURATION PARAMETERS

INPUT CONFIGURATION

INPUT TYPE: DIGITAL NORMAL
 ERROR DETECTION: FALSE
 PULSES PER REVOLUTION: 0
 MINIMUM ERROR: 0.00
 MINIMUM RANGE: 0.00
 MAXIMUM RANGE: 1.00
 MAXIMUM ERROR: 1.00
 ERROR HYSTERESIS: 0.50
 DIGITAL DEBOUNCE TIME: 0
 PULLUP/PULLDOWN: 10KOHM PULLDOWN
 INPUT FILTER TYPE: NOT USED
 INPUT FILTER CONSTANT:1

LOOKUP TABLE CONFIGURATION

CONTROL SOURCE: NOT USED

OUTPUT CONFIGURATION

CONTROL SOURCE: UNIVERSAL INPUT
 OUTPUT TYPE: PROPORTIONAL CURRENT
 OUTPUT AT MIN COMMAND: 0 MA
 OUTPUT AS MAX COMMAND: 800 MA
 RAMP UP TIME: 6000 MS
 RAMP DOWN TIME: 6000 MS
 OUTPUT FREQUENCY: 25000 HZ
 DITHER FREQUENCY: 100 HZ
 DITHER AMPLITUDE: 225 MA
 HOTSHOT TIME: 1000 MS
 HOTSHOT CURRENT: 1500 MA

NOTE: THE ABOVE PARAMETERS ARE CONTAINED IN THE CONFIGURATION FILES AND ARE ONLY INCLUDED FOR SITUATIONS IN WHICH THE FILES ARE HARD TO ACCESS OR LOST.
 SOFTWARE IS CALLED E-WRITE NFC AND IS AVAILABLE ON THE GOOGLE PLAY STORE.

052053 CONFIGURATION PARAMETERS

INPUT CONFIGURATION

INPUT TYPE: DIGITAL NORMAL
 ERROR DETECTION: FALSE
 PULSES PER REVOLUTION: 0
 MINIMUM ERROR: 0.00
 MINIMUM RANGE: 0.00
 MAXIMUM RANGE: 1.00
 MAXIMUM ERROR: 1.00
 ERROR HYSTERESIS: 0.50
 DIGITAL DEBOUNCE TIME: 0
 PULLUP/PULLDOWN: 10KOHM PULLDOWN
 INPUT FILTER TYPE: NOT USED
 INPUT FILTER CONSTANT:1

LOOKUP TABLE CONFIGURATION

CONTROL SOURCE: NOT USED

OUTPUT CONFIGURATION

CONTROL SOURCE: UNIVERSAL INPUT
 OUTPUT TYPE: PROPORTIONAL CURRENT
 OUTPUT AT MIN COMMAND: 0 MA
 OUTPUT AS MAX COMMAND: 1400 MA
 RAMP UP TIME: 6000 MS
 RAMP DOWN TIME: 6000 MS
 OUTPUT FREQUENCY: 25000 HZ
 DITHER FREQUENCY: 100 HZ
 DITHER AMPLITUDE: 225 MA
 HOTSHOT TIME: 1000 MS
 HOTSHOT CURRENT: 1500 MA

NOTE: THE ABOVE PARAMETERS ARE CONTAINED IN THE CONFIGURATION FILES AND ARE ONLY INCLUDED FOR SITUATIONS IN WHICH THE FILES ARE HARD TO ACCESS OR LOST.
 SOFTWARE IS CALLED E-WRITE NFC AND IS AVAILABLE ON THE GOOGLE PLAY STORE.

052054 CONFIGURATION PARAMETERS

INPUT CONFIGURATION

INPUT TYPE: DIGITAL NORMAL
 ERROR DETECTION: FALSE
 PULSES PER REVOLUTION: 0
 MINIMUM ERROR: 0.00
 MINIMUM RANGE: 0.00
 MAXIMUM RANGE: 1.00
 MAXIMUM ERROR: 1.00
 ERROR HYSTERESIS: 0.50
 DIGITAL DEBOUNCE TIME: 0
 PULLUP/PULLDOWN: 10KOHM PULLDOWN
 INPUT FILTER TYPE: NOT USED
 INPUT FILTER CONSTANT:1

LOOKUP TABLE CONFIGURATION

CONTROL SOURCE: NOT USED

OUTPUT CONFIGURATION

CONTROL SOURCE: UNIVERSAL INPUT
 OUTPUT TYPE: PROPORTIONAL VOLTAGE
 OUTPUT AT MIN COMMAND: 0 MV
 OUTPUT AS MAX COMMAND: 24000 MV
 RAMP UP TIME: 0 MS
 RAMP DOWN TIME: 0 MS
 OUTPUT FREQUENCY: 25000 HZ
 DITHER FREQUENCY: 100 HZ
 DITHER AMPLITUDE: 0 V
 HOTSHOT TIME: 1000 MS
 HOTSHOT CURRENT: 1500 MA

NOTE: THE ABOVE PARAMETERS ARE CONTAINED IN THE CONFIGURATION FILES AND ARE ONLY INCLUDED FOR SITUATIONS IN WHICH THE FILES ARE HARD TO ACCESS OR LOST.
 SOFTWARE IS CALLED E-WRITE NFC AND IS AVAILABLE ON THE GOOGLE PLAY STORE.

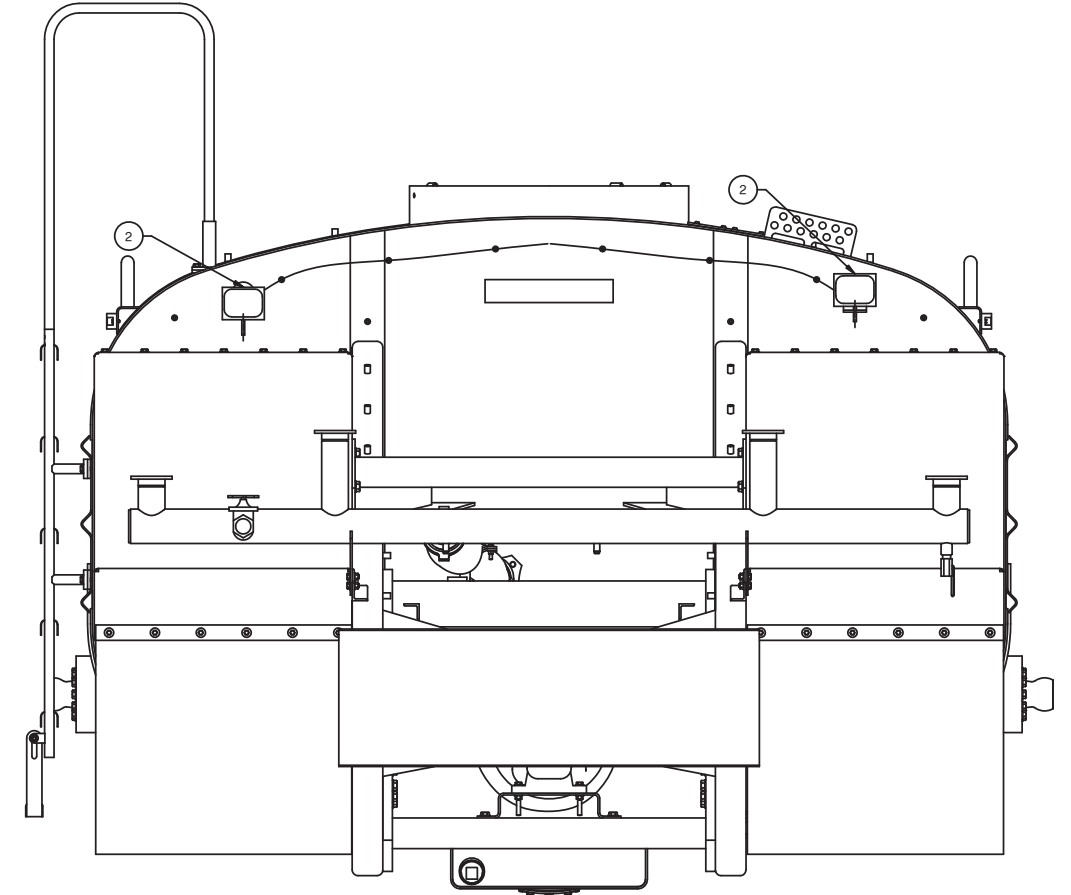
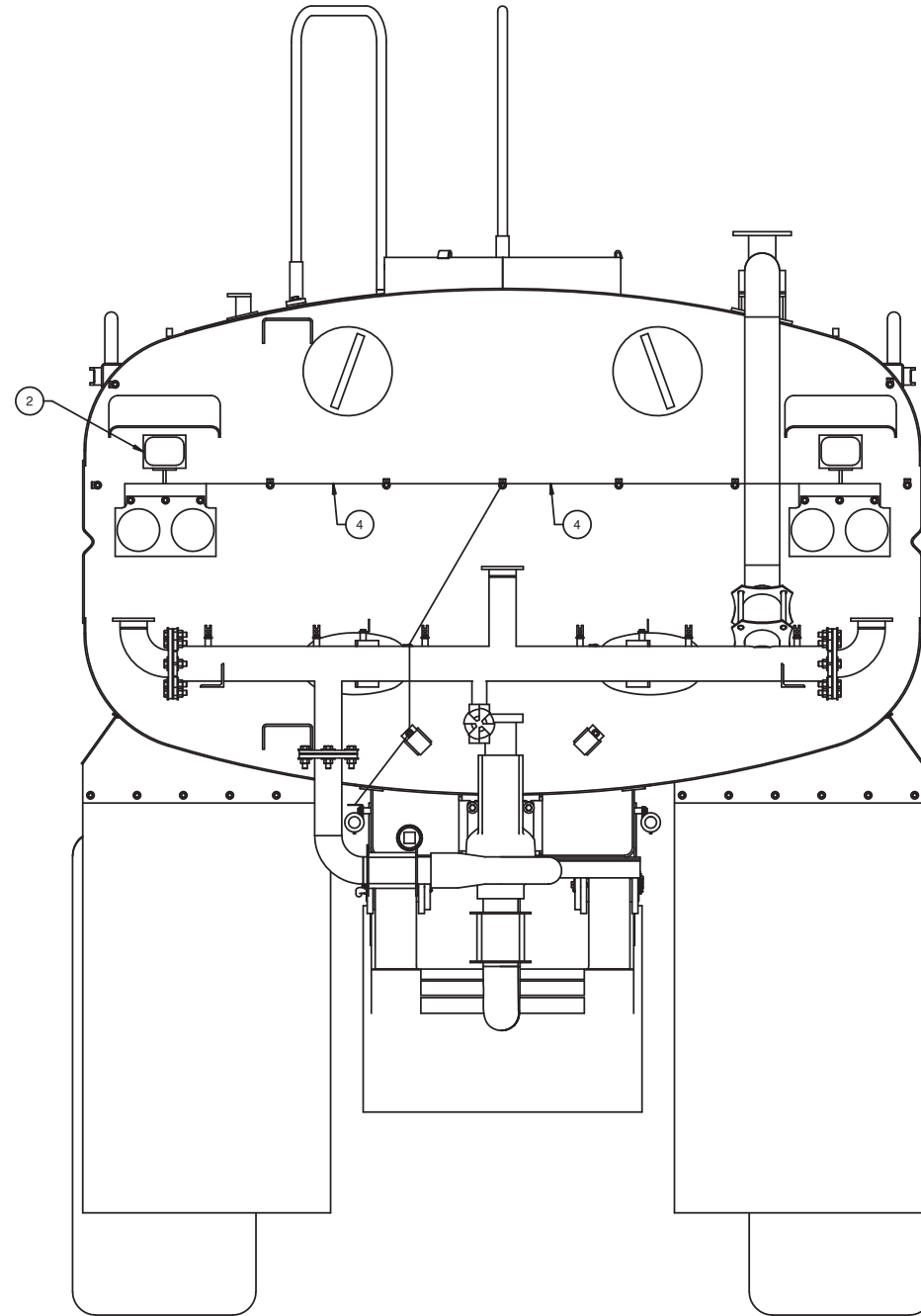
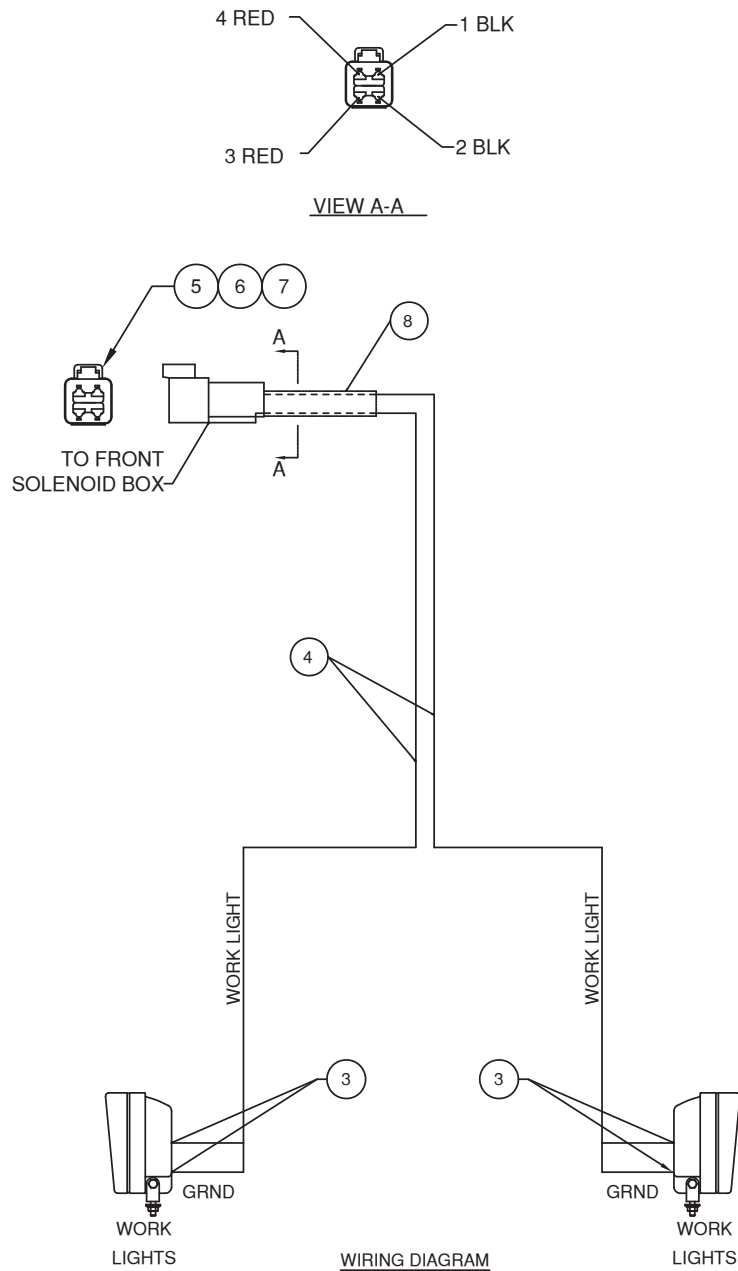
| REVISIONS | | | |
|-----------|--------------------------------|----------|----------|
| REV | DESCRIPTION | DATE | APPROVED |
| A | ADDED 24VDC | 8-30-17 | DSD |
| B | CHANGED 052050 CONFIG TO 1.25A | 9-13-17 | DSD |
| C | ADDED NOTE TO ADD STICKER | 11-20-17 | DSD |
| D | MOVED NOTE TO 051606 | 2-7-18 | DSD |
| E | RAMP UP/DOWN TO 0 ON 052054 | 6-22-18 | 18051 |



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| | | |
|--|-----------------|-----------------|
| TOLERANCE: UNLESS OTHERWISE SPECIFIED | | |
| 3 PLACES ± 0.010 | 2 PLACES ± 0.03 | ANGULAR ± 1° |
| NAME OF JOB: DRIVER CARD | | |
| DRAWING TITLE: DRIVER CARD CONFIGURATION PROCEDURE | | |
| SCALE: NTS | DATE: 7-21-17 | DWG. No. 052050 |
| DRAWN BY: DSD | SHEET 1 OF 1 | |

| ITEM | PART NO. | PART NAME | QTY | REF NO. | IND. | WT. |
|------|----------|-----------------------------|-----|---------|------|-----|
| 1 | | | | | | |
| 2 | 305305 | LIGHT, LED WORK | 2 | | | STK |
| 3 | 306373 | BUT CONN 14ga SHRINK SLEEVE | 4 | | | SUP |
| 4 | 44397-01 | 14ga 2 COND. WIRE X 40' | 2 | 300484 | | SUP |
| 5 | 304466 | RECEPTACLE, 4 CON | 1 | | | STK |
| 6 | 304289 | PIN, MALE | 4 | | | SUP |
| 7 | 304467 | SECONDARY LOCK | 1 | | | SUP |
| 8 | 305274 | HEAT SHRINK, 3/4" | 1 | | | SUP |

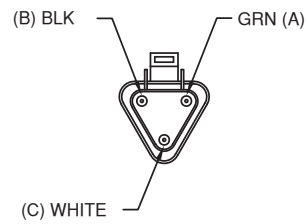
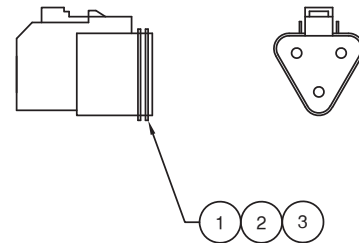


| | | |
|--|---|--|
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| | TOLERANCE: UNLESS OTHERWISE SPECIFIED 3 PLACES + 0.010 2 PLACES + 0.030 ANGULAR 1' | |
| DWG. TITLE: CAT < 9000 WORK LIGHTS INSTALL | | |
| SCALE: NTS | | DATE: Oct-27-10 |
| DRAWN BY: DE | | NOTE: SHEET 1 OF 1 |

| REVISIONS | | | |
|-----------|-----------------------|-----------|-----|
| REV | DESCRIPTION | DATE | ECR |
| A | CHANGED LIGHTS TO LED | Apr-03-12 | TCS |
| B | 306373 WAS 304737 | 1-23-13 | RRH |

BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|--------|----------|------------------------------------|-----|---------|-----|
| 1 | 303626 | PLUG, 3 PIN (DEUTSCH) | 1 | | STK |
| 043425 | 2 | 304706 WEDGE LOCK, 3 SOCKET | 1 | | SUP |
| 052549 | 2 | 308576 LOCK, 3 SOCKET TRIANGLE KEY | 1 | | STK |
| 3 | 304471 | SEALING PLUG | 3 | | SUP |



VIEW B-B



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TOLERANCE: UNLESS OTHERWISE SPECIFIED

3 PLACES ± 0.010

2 PLACES ± 0.03

ANGULAR ± 1°

NAME OF JOB:

DRAWING TITLE: CONNECTOR, TERMINATING, PLUG, 3CON

SCALE: NONE

DATE: 11-01-09

DWG. No.:

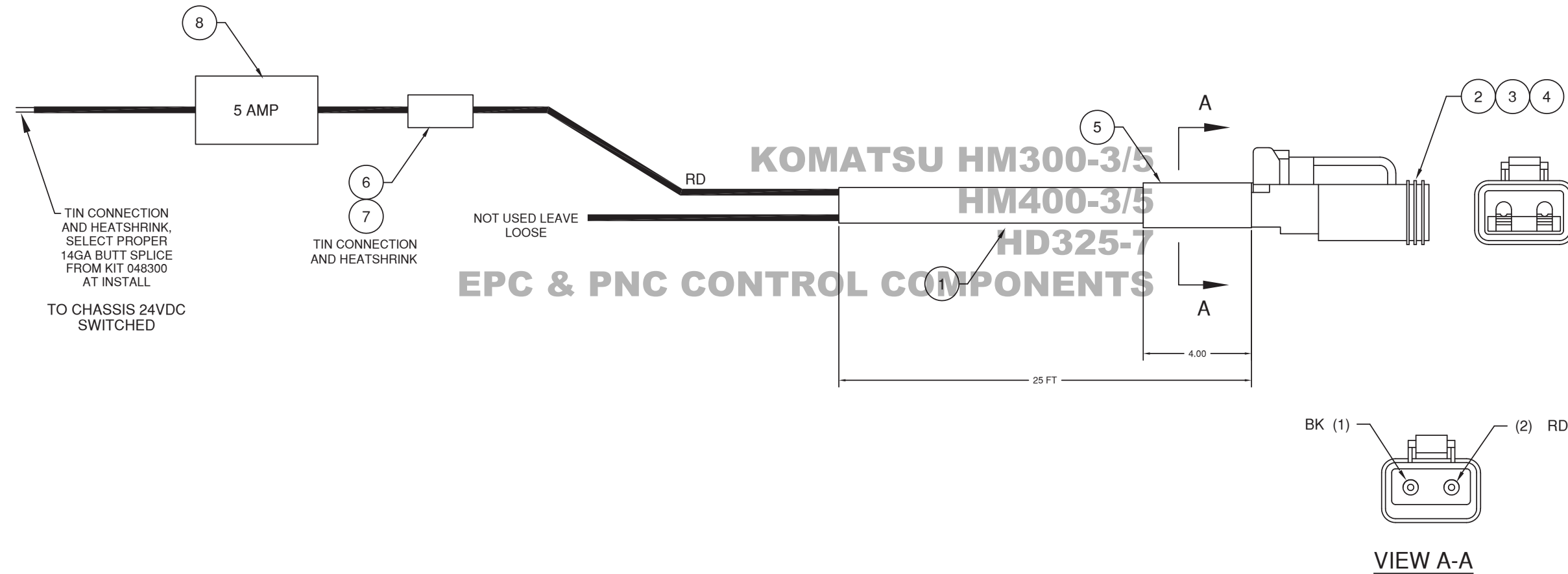
DRAWN BY: DE

SHEET 1 OF 1

043425

| REVISIONS | | | |
|-----------|-------------|------|----------|
| REV | DESCRIPTION | DATE | APPROVED |
| A | | | |

| BILL OF MATERIAL | | | | | |
|------------------|----------|-------------------------------|-----|---------|------|
| No. | Part No. | PART NAME | QTY | REF No. | WT. |
| 1 | 300484 | CABLE, 2 COND 14GA 25 FT LONG | 1 | | SPLY |
| 2 | 304285 | PLUG, 2 PIN (DEUTSCH) | 1 | | STK |
| 3 | 304288 | SOCKET, FEMALE, (DEUTSCH) | 2 | | SPLY |
| 4 | 304385 | SECONDARY LOCK, 2 SOCKET | 1 | | SPLY |
| 5 | 304727 | HEAT SHRINK, 4" | 1 | | SPLY |
| 6 | 305266 | HEAT SHRINK 7/16" X 6" BLACK | 1 | | SPLY |
| 7 | 306382 | BUTT SPLICE, NON INS. | 1 | | SPLY |
| 8 | 306415 | INLINE FUSE HOLDER, MAX FUSE | 1 | | SPLY |
| 9 | | | | | |
| 10 | | | | | |



| | | | | | |
|--|--|---|--|--|--|
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| TOLERANCE: UNLESS OTHERWISE SPECIFIED | | | | | |
| 3 PLACES ± 0.010 | | 2 PLACES ± 0.03 | | ANGULAR ± 1° | |
| NAME OF JOB: 25FT, EXTENSION CABLE ASSY, HM300/400-3-5 | | | | | |
| DRAWING TITLE: 24V POWER CABLE 2 PIN, 14 GA, | | | | | |
| SCALE: NONE | | DATE: 09-08-15 | | DWS. No. | |
| DRAWN BY: LAP | | SHEET 1 OF 1 | | 049544 | |

| REVISIONS | | | | |
|-----------|---|---------|----------|--|
| REV | DESCRIPTION | DATE | APPROVED | |
| A | 306382 CHANGED TO 306415, REMOVED ITEM 9,10 | 12/8/15 | LAP | |

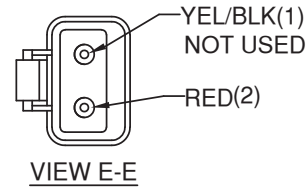
NOTES:

1. ALL DIMENSIONS ARE APPROXIMATE.
2. LABEL ALL CONNECTOR FOR FUNCTION
3. REMOVE SHEATHING FROM 12 CON CABLE DISGARD WIRES NOT USED AND HEATSHRINK ASSY.

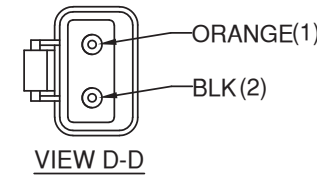
BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|-----|----------|---------------------------------|-----|---------|-----|
| 1 | 307538 | DTM PLUG-A KEY 12 PIN (DEUTSCH) | 1 | | STK |
| 2 | 306616 | DTM SOCKET, FEMALE, (DEUTSCH) | 12 | | SUP |
| 3 | 307539 | DTM SECONDARY LOCK, 12 SOCKET | 1 | | STK |
| 4 | | | | | |
| 5 | 304284 | RECEPTACLE 2 PIN (DEUTSCH) | 4 | | STK |
| 6 | 304289 | PIN, MALE, (DEUTSCH) | 8 | | SUP |
| 7 | 304384 | SECONDARY LOCK, 2 PIN | 4 | | SUP |
| 8 | 307199 | CABLE, 12 CON 18GA | 16' | | SUP |
| 9 | | HEATSHRINK | | | SUP |

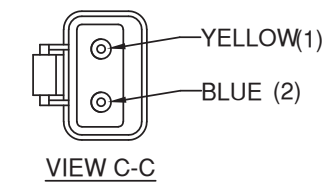
FROM CHASSIS POWER



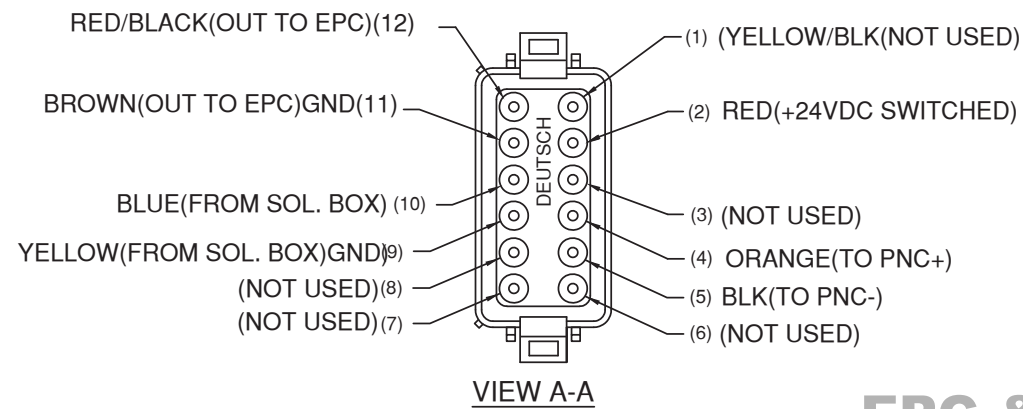
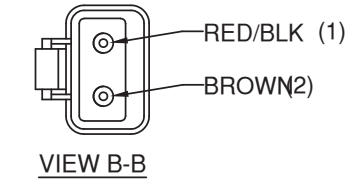
TO PNC



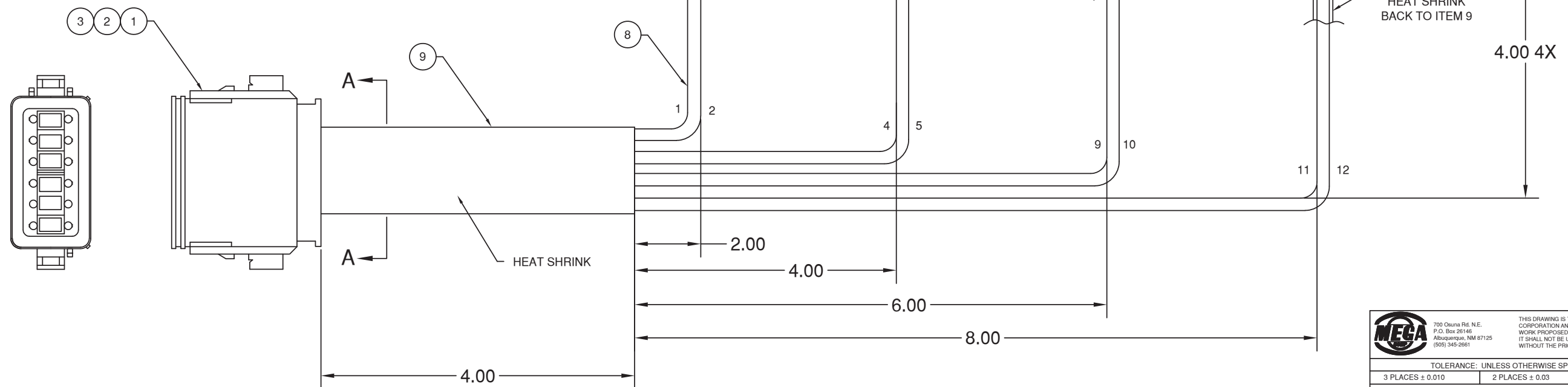
FROM SOL. BOX



TO EPC



EPC & PNC CONTROL COMPONENTS



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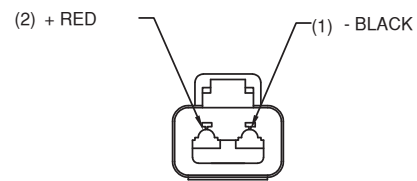
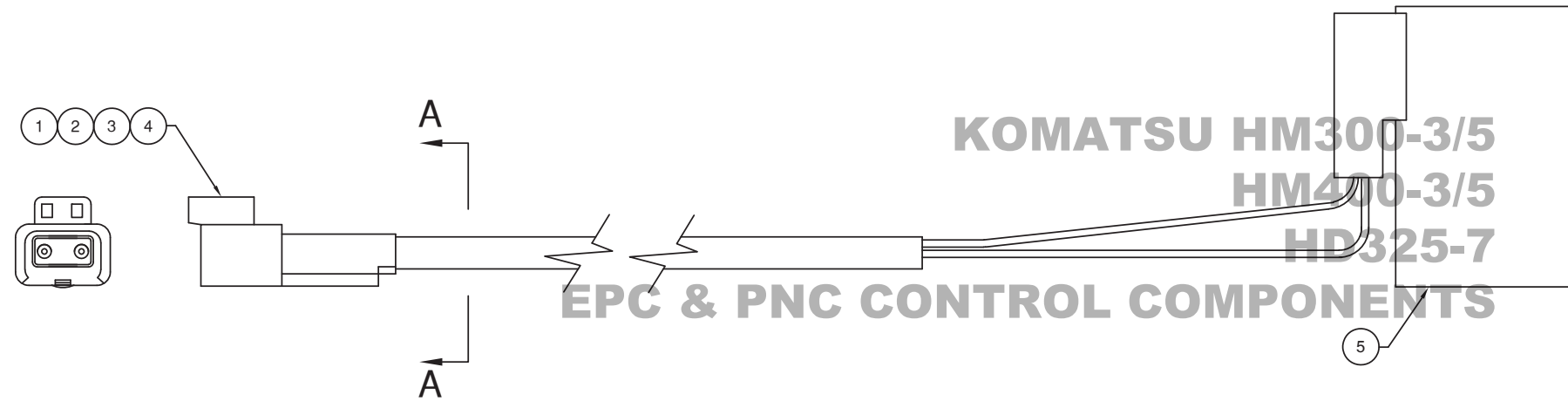
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TOLERANCE: UNLESS OTHERWISE SPECIFIED
 3 PLACES ± 0.010 2 PLACES ± 0.03 ANGULAR ± 1°


NAME OF JOB: HM400/300-3-5-7
 DRAWING TITLE: CABLE, PWM RELAY INSTALL

| REVISIONS | | | | SCALE: NTS | DATE: 12-02-15 | DWG. No. |
|-----------|---|---------|----------|------------|----------------|----------|
| REV | DESCRIPTION | DATE | APPROVED | | | |
| A | REPLACED 8 CON 16 GA WITH 12 CON 18 GA, REVISED COLOR | 1/25/16 | LAP | | | 049889 |

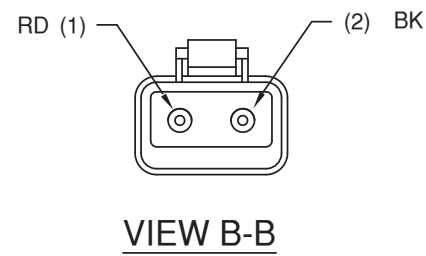
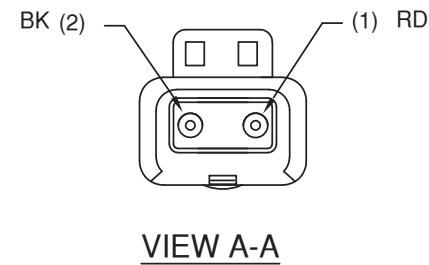
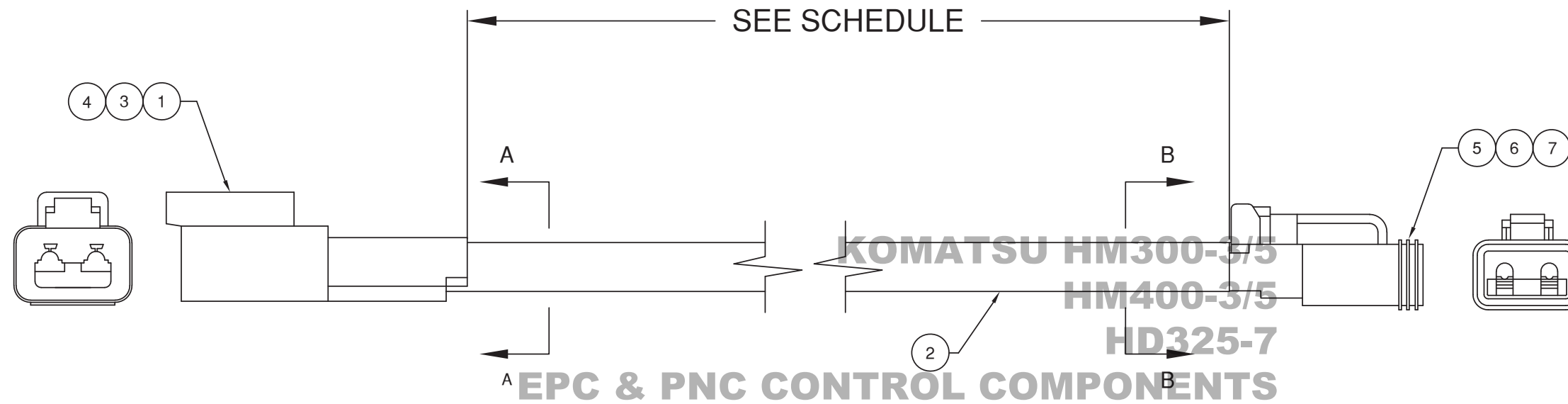
| BILL OF MATERIAL | | | | | |
|------------------|----------|-----------------------------|-----|---------|-----|
| No. | Part No. | PART NAME | QTY | REF No. | WT. |
| 1 | 304284 | RECEPTICLE, 2 PIN (DEUTSCH) | 1 | | STK |
| 2 | 304289 | PIN, MALE, (DEUTSCH) | 2 | | SUP |
| 3 | 304384 | WEDGE LOCK, 2 PIN | 1 | | SUP |
| 4 | | HEATSHRINK | | | SUP |
| 5 | 304859 | COIL, 24 VDC | 1 | | STK |
| | | | | | |
| | | | | | |
| | | | | | |



VIEW A-A

| | | | |
|---|------------------------|--|------------------|
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| TOLERANCE: UNLESS OTHERWISE SPECIFIED | | | |
| 3 PLACES ± 0.010 | | 2 PLACES ± 0.03 | ANGULAR ± 1° |
| NAME OF JOB: COIL AND CABLE ASSEMBLY | | DRAWING TITLE: COIL ASSEMBLY WITH RECEPTACLE END | |
| REV | DESCRIPTION | DATE | APPROVED |
| A | 304289, 304384 NOW SUP | 4/17/14 | 14007 |
| SCALE: NONE | | DATE: 10-16-07 | DWG. No.: 041413 |
| DRAWN BY: RED | | SHEET 1 OF 1 | |

| BILL OF MATERIAL | | | | | |
|------------------|----------|-----------------------------|---------------------|---------|------|
| No. | Part No. | PART NAME | QTY | REF No. | WT. |
| 1 | 304284 | RECEPTACLE, 2 PIN (DEUTSCH) | 1 | | STK |
| 049410 | 2 | 300484 | CABLE, 2 COND' 14GA | 2 FT | SPLY |
| 049542 | 2 | 300484 | CABLE, 2 COND' 14GA | 15 FT | SPLY |
| 3 | 304289 | PIN, MALE, (DEUTSCH) | 2 | | SPLY |
| 4 | 304384 | SECONDARY LOCK, 2 PIN | 1 | | SPLY |
| 5 | 304285 | PLUG, 2 PIN (DEUTSCH) | 1 | | STK |
| 6 | 304288 | SOCKET, FEMALE, (DEUTSCH) | 2 | | SPLY |
| 7 | 304385 | SECONDARY LOCK, 2 SOCKET | 1 | | SPLY |



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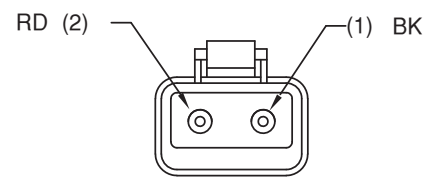
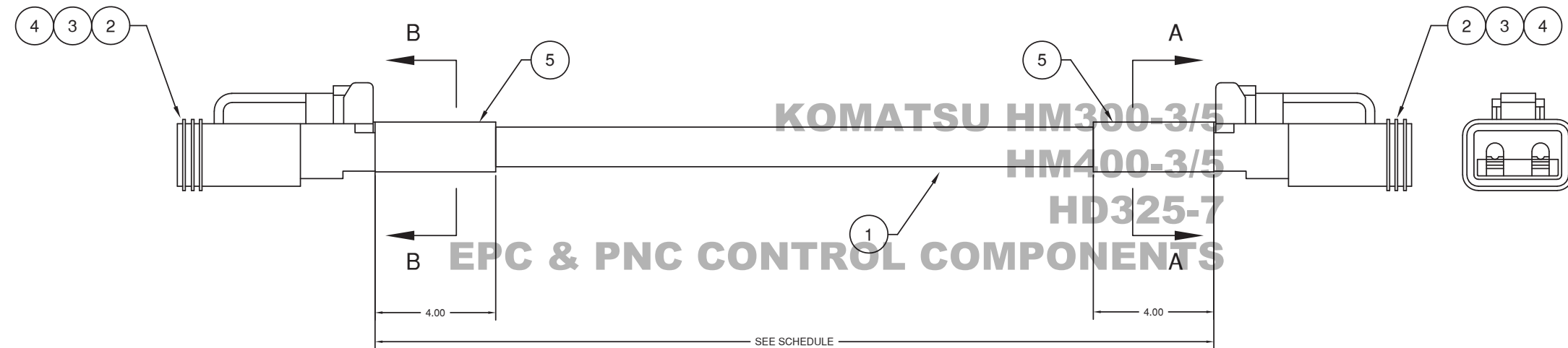
TOLERANCE: UNLESS OTHERWISE SPECIFIED
 3 PLACES ± 0.010 2 PLACES ± 0.03 ANGULAR ± 1°

NAME OF JOB: HARNESS 2FT, EXTENSION CABLE ASSY.
 DRAWING TITLE: 2 PIN, 14 GA.
 SCALE: NONE DATE: 07-15-15 DWG. No. 049410
 DRAWN BY: LAP SHEET OF 1

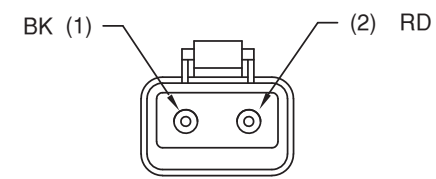
| REVISIONS | | | |
|-----------|----------------|--------|----------|
| REV | DESCRIPTION | DATE | APPROVED |
| A | ADDED SCHEDULE | 9/1/15 | LAP |

BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|--------|----------|-----------|------------------------------|---------|------|
| 049545 | 1 | 300484 | CABLE, 2 COND' 14GA 24" LONG | 1 | SPLY |
| 049921 | 1 | 300484 | CABLE, 2 COND' 14GA 84" LONG | 1 | SPLY |
| | 2 | 304285 | PLUG, 2 PIN (DEUTSCH) | 2 | STK |
| | 3 | 304288 | SOCKET, FEMALE, (DEUTSCH) | 4 | SPLY |
| | 4 | 304385 | SECONDARY LOCK, 2 SOCKET | 2 | SPLY |
| | 5 | 304727 | HEAT SHRINK, 4" | 2 | SPLY |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |



VIEW B-B



VIEW A-A

| REVISIONS | | | |
|-----------|---------------------------------------|----------|----------|
| REV | DESCRIPTION | DATE | APPROVED |
| A | ADDED SCHEDULE, REVISED LENGTHS | 12/03/15 | LAP |
| B | CABLE 300484 CHANGED TO 84" FROM 120" | 09/12/16 | LAP |

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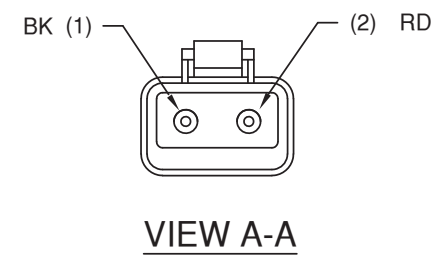
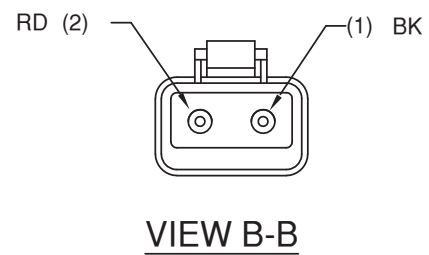
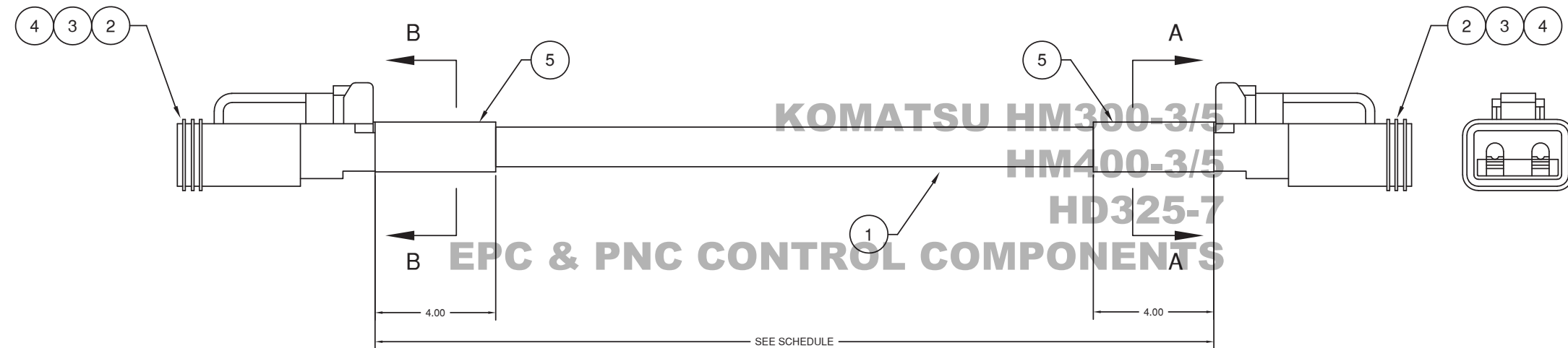
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TOLERANCE: UNLESS OTHERWISE SPECIFIED
3 PLACES ± 0.010 2 PLACES ± 0.03 ANGULAR ± 1°

NAME OF JOB: 2FT. EXTENSION CABLE ASSY. HM300/400-3-5
DRAWING TITLE: 24V POWER CABLE 2 PIN, 14 GA.
SCALE: NONE DATE: 09-08-15 DWG. No. 049545
DRAWN BY: LAP SHEET 1 OF 1

BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|--------|----------|-----------|------------------------------|---------|------|
| 049545 | 1 | 300484 | CABLE, 2 COND' 14GA 24" LONG | 1 | SPLY |
| 049921 | 1 | 300484 | CABLE, 2 COND' 14GA 84" LONG | 1 | SPLY |
| | 2 | 304285 | PLUG, 2 PIN (DEUTSCH) | 2 | STK |
| | 3 | 304288 | SOCKET, FEMALE, (DEUTSCH) | 4 | SPLY |
| | 4 | 304385 | SECONDARY LOCK, 2 SOCKET | 2 | SPLY |
| | 5 | 304727 | HEAT SHRINK, 4" | 2 | SPLY |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |



| REVISIONS | | | |
|-----------|---------------------------------------|----------|----------|
| REV | DESCRIPTION | DATE | APPROVED |
| A | ADDED SCHEDULE, REVISED LENGTHS | 12/03/15 | LAP |
| B | CABLE 300484 CHANGED TO 84" FROM 120" | 09/12/16 | LAP |

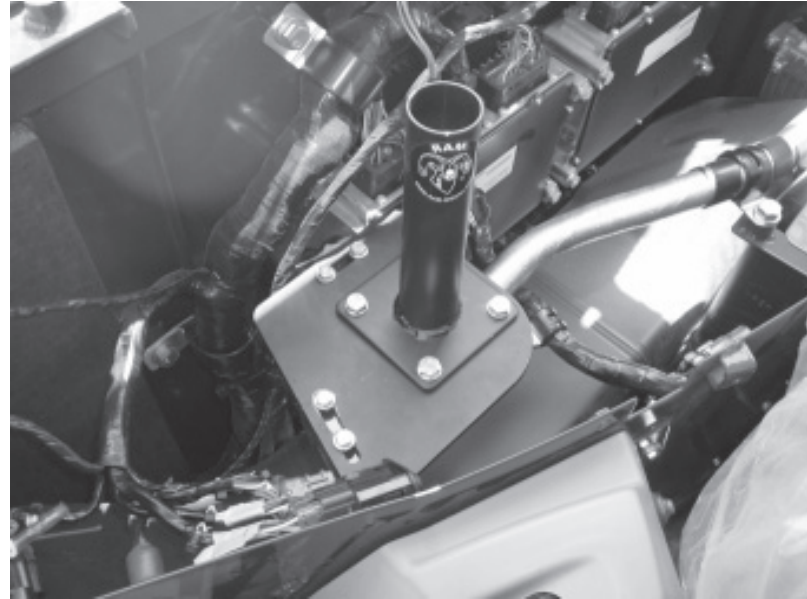
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TOLERANCE: UNLESS OTHERWISE SPECIFIED
 3 PLACES ± 0.010 2 PLACES ± 0.03 ANGULAR ± 1°

NAME OF JOB: 2FT. EXTENSION CABLE ASSY. HM300/400-3-5
 DRAWING TITLE: 24V POWER CABLE 2 PIN, 14 GA.
 SCALE: NONE DATE: 09-08-15 DWG. No. 049545
 DRAWN BY: LAP SHEET 1 OF 1

PHOTO 1 BASE SHOWN WITH RAM MOUNT



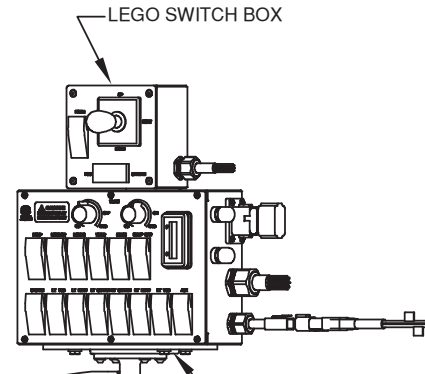
REMOVE EXISTING STORAGE CONTAINER AND REPLACE WITH PEDESTAL LOWER (ITEM 7). REMOVE COVER OR CUT HOLE TO ALLOW PASS THROUGH OF PEDESTAL LOWER.

INSTALLED DISC SWITCH BOX SHOWN



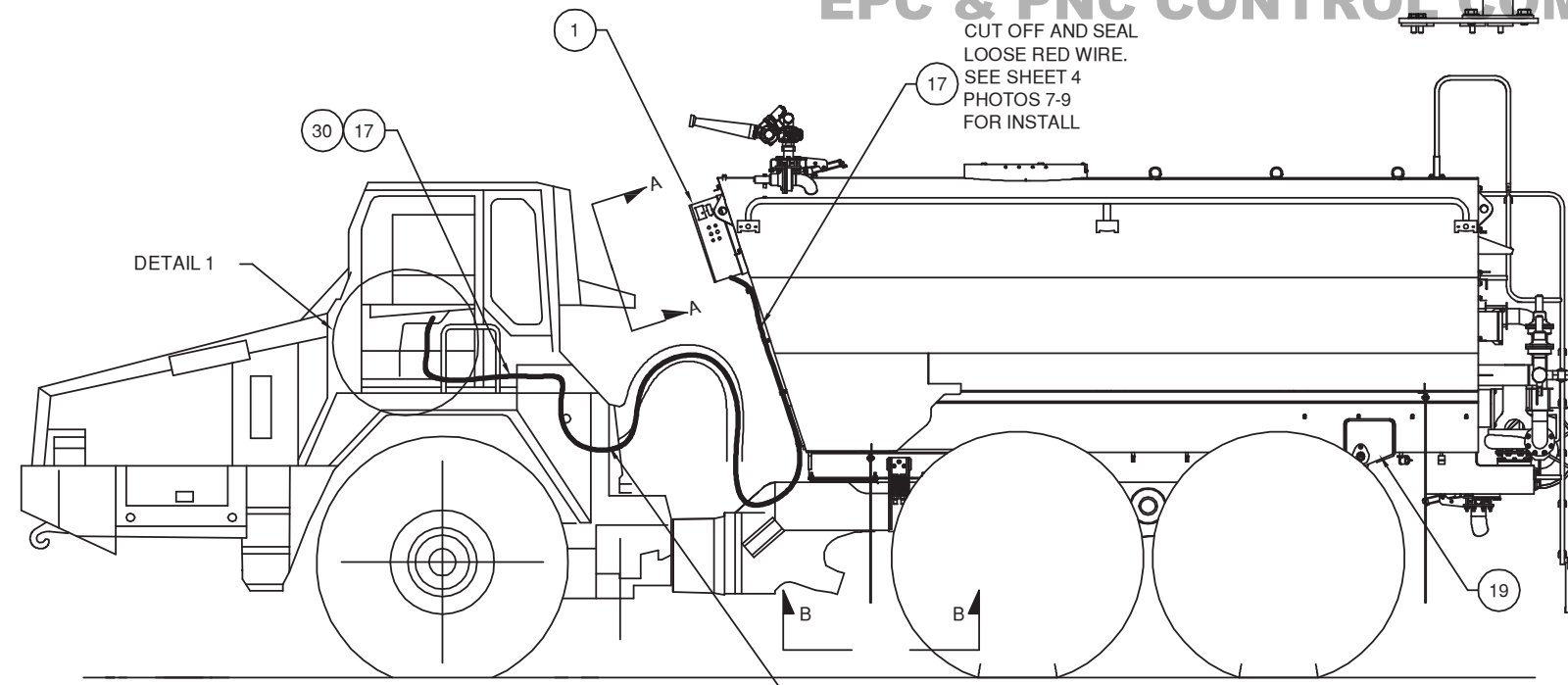
PHOTO 2

- GENERAL NOTES: (EXCEPT AS SHOWN)
 1. - SHOWN LOCATION IS FOR REF. ONLY.
 2. - LIMITS HOIST LEVER TRAVEL TO HOLD AND FLOAT POSITION ONLY.
 3. - USE AS REQUIRED TO SECURE HOSES AND CABLING.



SEE NOTE 3

KOMATSU HM300-3/5
 HM400-3/5
 HD325-7
 EPC & PNC CONTROL COMPONENTS



1 CUT OFF AND SEAL LOOSE RED WIRE. SEE SHEET 4 PHOTOS 7-9 FOR INSTALL

41 USE TO PROTECT CABLE THRU CAB

BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|--------|-----------|----------------------------------|-----|---------|------|
| 051879 | 1 | 051842 SOL. BOX ASSY. | 1 | | REF |
| 1 | | | | | |
| 2 | | | | | |
| 3 | 306336 | ADPT. -6 ORB -6 ORFS | 1 | | STK |
| 4 | 306942 | CHECKVALVE, VONBERG -6ORFS-6ORB | 2 | | STK |
| 5 | 306941 | SHUTTLE VALVE, VONBERG -6 ORB | 1 | | STK |
| 6 | | | | | |
| 7 | 053210 | RAM MOUNT | 1 | | REF |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | 051357 | RAM MOUNT, LEGO BOX UPPER | 1 | | REF |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | 051839 | CABLE ASSY 25'-0" | 1 | 051837 | REF |
| 18 | 041196 | CABLE ASSY 2 PIN (25') | 1 | | STK |
| 19 | 042073 | GROUND STRAP 6' | 1 | | STK |
| 20 | 041413 | COIL & CABLE ASSEMBLY | 2 | | REF |
| 21 | 304284 | RECEPTACLE, 2 PIN (DEUTSCH) | 2 | | STK |
| 22 | 304289 | PIN, MALE, (DEUTSCH) | 4 | | SPLY |
| 23 | 304384 | SECONDARY LOCK, 2 PIN | 2 | | SPLY |
| 24 | 042225 | BRACKET, TRAVEL, HOIST LEVER | 1 | | STK |
| 25 | | | | | |
| 26 | 305221 | WIRE RING TERMINAL 3/8 (BLUE) | 1 | | SUP |
| 27 | 305256 | TEE TAP WIRE TERMINAL 18-14 GAGE | 3 | | SUP |
| 28 | 305208 | SPADE CONNECTOR 16-14 GAGE | 3 | | SUP |
| 29 | | | | | |
| 30 | 046086 | CABLE ASSY GND | 1 | 046086 | REF |
| 31 | 355330 | SPIRAL WRAP (1/2") | 20' | | SUP |
| 32 | 355331 | SPIRAL WRAP (1") | 20' | | SUP |
| 33 | 306147 | HHCS, M10X1.5 X70MM | 1 | | SUP |
| 34 | 355481 | HHCS, M10X1.5 X60MM | 2 | | SUP |
| 35 | | | | | |
| 36 | 305250 | CABLE TIE, 15" 100 PC. | 1 | | SUP |
| 37 | | | | | |
| 38 | | | | | |
| 39 | | | | | |
| 40 | | | | | |
| 41 | 355506 | 1" RUBBER GROMMET | 1 | | SUP |
| 42 | | | | | |
| 43 | 355254 | HEX NUT M10X1.5 | 2 | | SUP |
| 44 | 306933 | HHCS, M10X1.5 X45MM | 4 | | SUP |
| 45 | 355264 | WASHER, M10 | 4 | | STK |
| 46 | 352436 | PIPE/JIC 4-4S 90° | 8 | | STK |
| 051879 | 47 | 025610 SPRAY HEAD, HYD. STANDARD | 4 | | STK |
| 47 | | | | | |
| 48 | 355262 | WASHER, M6 | 4 | | SUP |
| 49 | 355489 | NUT LOCK, M6X1.0 | 2 | | SUP |
| 50 | 355581 | HHCS, M6X1.0 X45MM | 2 | | SPLY |
| 51 | 051879-01 | HOSE ASM | 1 | | SHT5 |
| 52 | 051879-02 | HOSE ASM | 1 | | SHT5 |
| 53 | 051879-03 | HOSE ASM | 2 | | SHT5 |
| 54 | 051879-04 | HOSE ASM | 2 | | SHT5 |
| 55 | 051879-05 | HOSE ASM | 2 | | SHT5 |
| 56 | 051879-06 | HOSE ASM | 2 | | SHT5 |
| 57 | 051879-07 | HOSE ASM | 1 | | SHT5 |
| 58 | 051879-08 | HOSE ASM | 1 | | SHT5 |
| 59 | | | | | |
| 60 | | | | | |
| 61 | 305486 | TEE, -10ORS -10ORS -10ORS SWVL | 1 | | STK |
| 62 | 353953 | RDCR, -6 ORFS -10 ORFS | 1 | | STK |
| 63 | 049921 | CABLE ASSY 7FT EXTENSION | 1 | 049545 | REF |
| 64 | 049544 | CABLE ASSY, PWM | 1 | | REF |
| 65 | 049008 | STANDOFF, M10 X 1.5 X 25MM | 1 | | STK |
| 66 | 049889 | CABLE ASM, PWM | 1 | | REF |
| 67 | 048300 | ELECTRICAL PARTS KIT | 1 | | STK |
| 68 | 049630 | PWM RELAY BOX | 1 | | STK |
| 69 | 049410 | HARNESS, 2FT, EXTENSION CABLE | 1 | 049410 | REF |
| 70 | 049545 | HARNESS, 2FT, EXTENSION CABLE | 1 | 049545 | REF |
| 71 | 044397 | WORK LIGHT INSTALL | 1 | | REF |
| 72 | 043627 | WLI SENSOR INSTALL | 1 | | REF |

| REVISIONS | | | |
|-----------|--|-----------|----------|
| REV | DESCRIPTION | DATE | APPROVED |
| A | RMVD 051861 | 12-JUN-17 | 17949 |
| B | 049411->049544, ADD 049630, 049889, 355262, 355489, 355581, 049921, 049544 | 10-AUG-17 | TCS |
| C | ADDED WORK LIGHTS AND WLI SENSOR INSTALL | 15-MAR-18 | 18005 |
| D | UPDATED BOM | 22-MAR-18 | LAP |
| E | WLI CHANGED FROM 052891 TO 043627 | 03-APR-18 | LAP |
| F | REMOVED 049273, 307171, 307172, 307173, 355262, 355578, 355485, ADDED 052610 | 11-MAY-18 | LAP |

MEGA 700 Osuna Rd. NE, Albuquerque, NM 87125 (505) 345-2661

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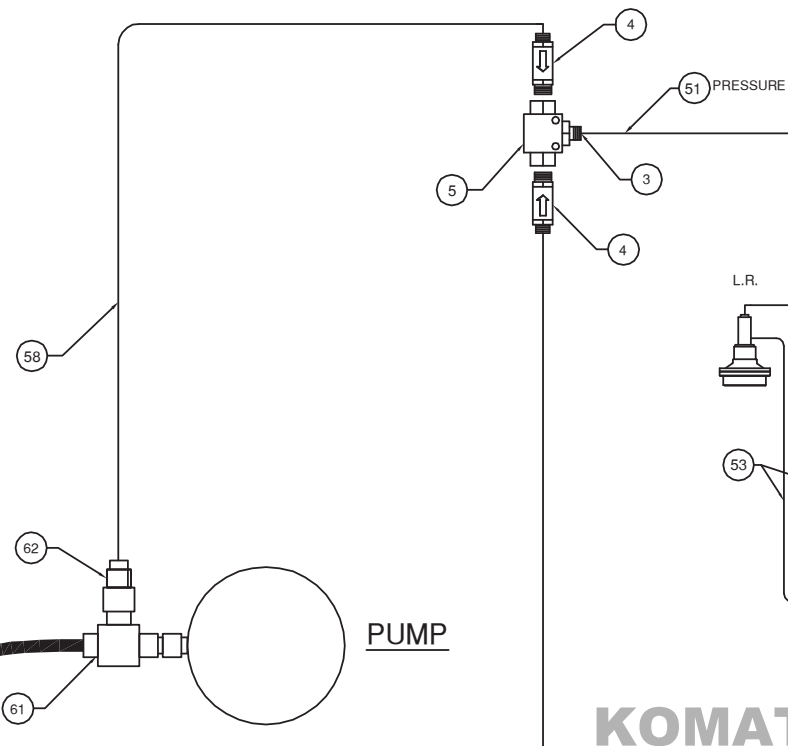
TOLERANCE: UNLESS OTHERWISE SPECIFIED
 3 PLACES ± 0.010 2 PLACES ± 0.03 ANGULAR ± 1°

NAME OF JOB: KOMATSU HM400 MAC8
 DRAWING TITLE: IN CAB CONTROL LEGO BOX
 SCALE: NTS DATE: 31-MAY-17 DWG. No.: 051879
 DRAWN BY: TCS SHEET 1 OF 5

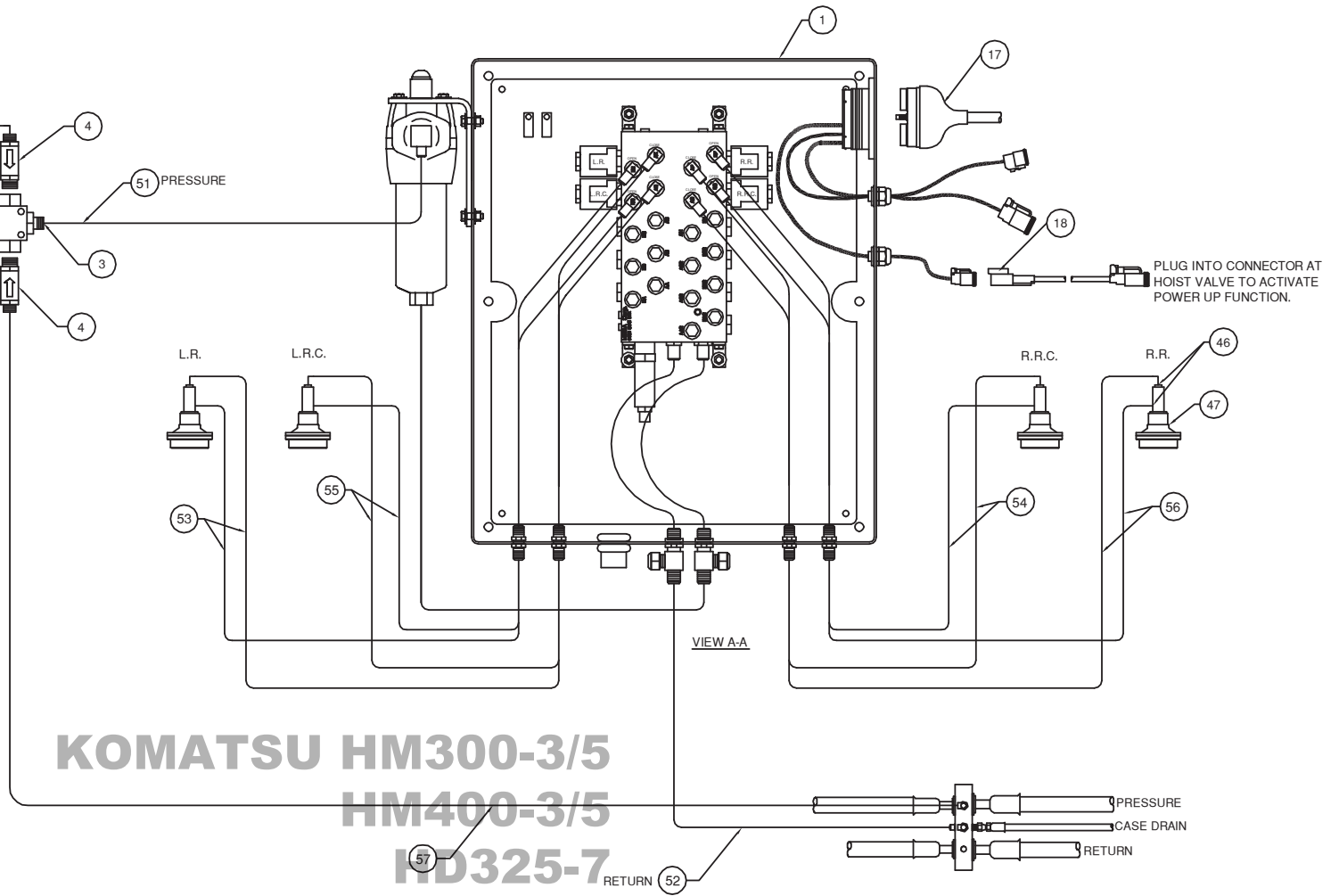


PHOTO 3

EXISTING HOSE ON TRUCK

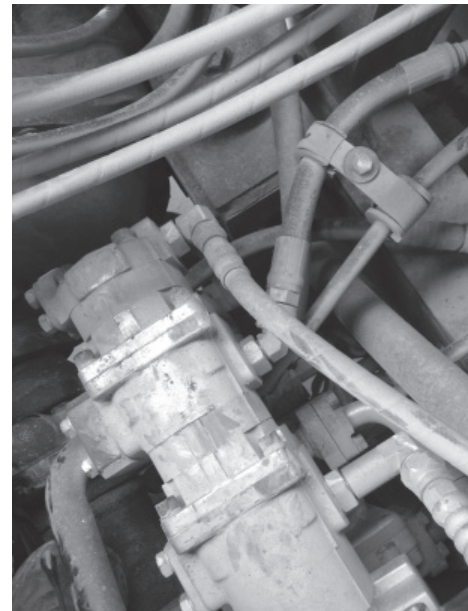


PUMP



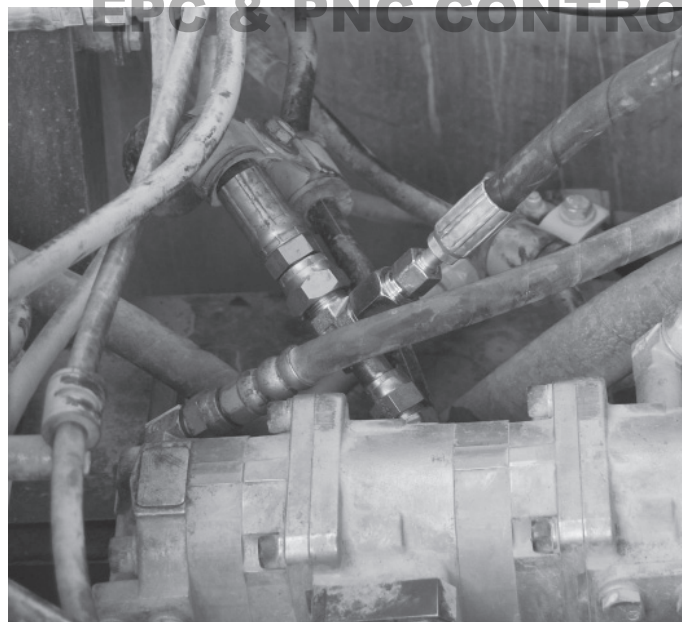
**KOMATSU HM300-3/5
HM400-3/5
HD325-7**

PHOTO 4



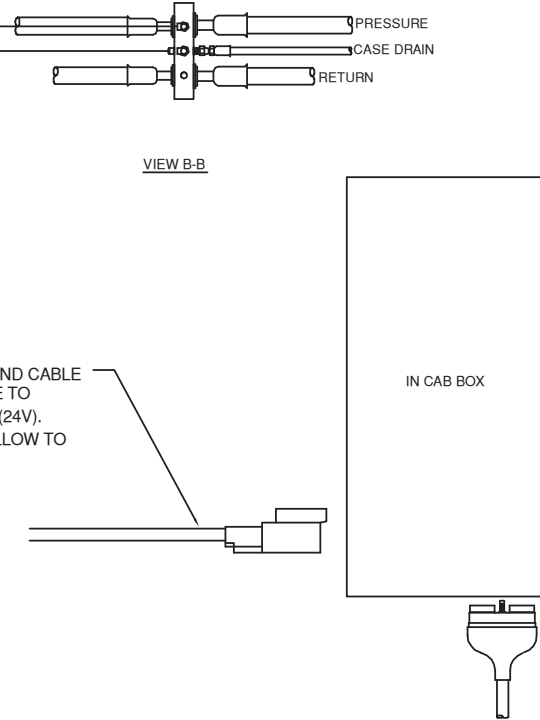
PUMP PRIOR TEE INSTALL

PHOTO 5



EPC & PNC CONTROL COMPONENTS

4 CON POWER AND GROUND CABLE
CONNECT RED AND WHITE TO
TRACTOR KEYED POWER (24V).
CONNECT BLACK AND YELLOW TO
TRACTOR GROUND.



| | | | |
|--|-----------------|---|--|
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| 3 PLACES ± 0.010 | 2 PLACES ± 0.03 | ANGULAR ± 1° | |
| NAME OF JOB: KOMATSU HM400 MAC8 | | | |
| DRAWING TITLE: IN CAB CONTROL LEGO BOX | | | |
| SCALE: NTS | DATE: 31-MAY-17 | DWG. No.: 051879-2 | |
| DRAWN BY: TCS | SHEET 2 OF 5 | | |

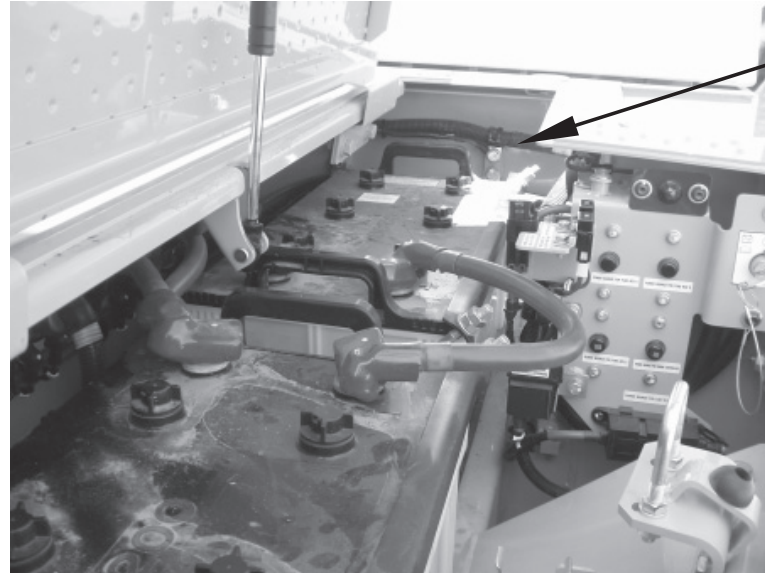
REMOVE TRUCK CUP HOLDER PANEL TO ACCESS CONTROL BOX CONNECTIONS



PHOTO 6

BLACK WIRES (NEGATIVE) FROM MEGA CONTROL BOX AND PWM RELAY BOX. ATTACH WIRE RING TERMINAL FROM ELEC. PARTS KIT (048300) TO END OF WIRES AND MOUNT TO EXSISTING SCREW AS SHOWN.

PHOTO 7



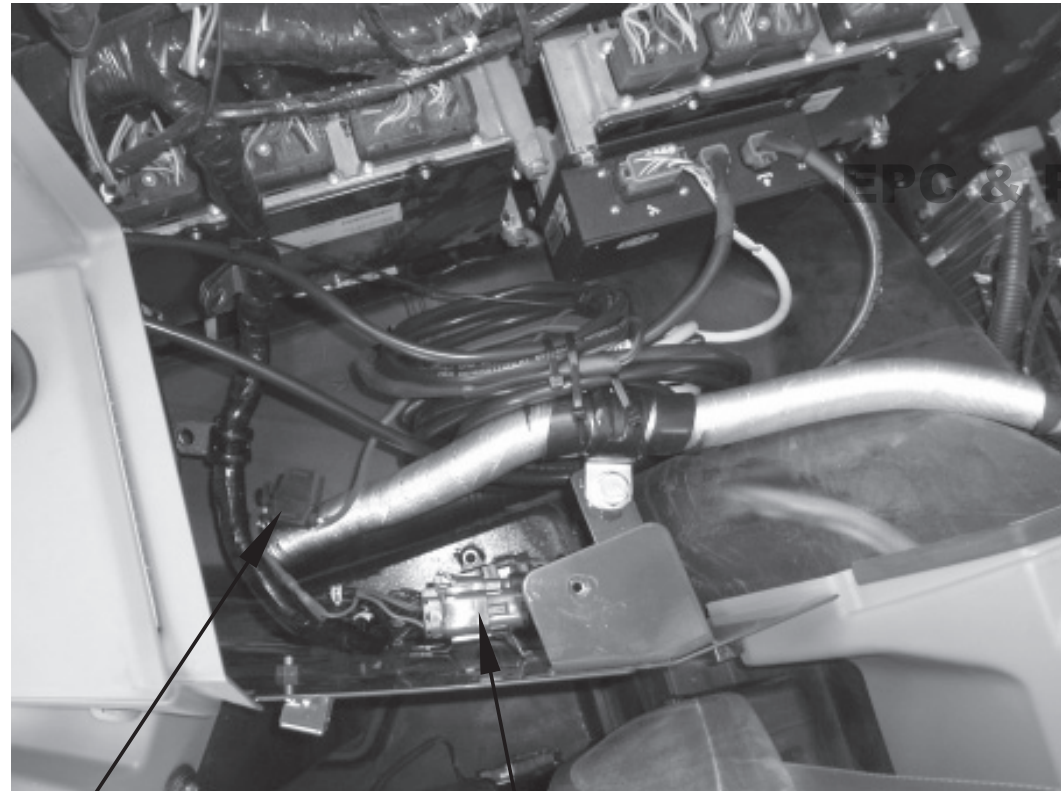
TRUCK BATTERY BOX

BLACK WIRE (GROUND) FROM MEGA SOLENOID BOX CABLE. ATTACH WIRE RING TERMINAL FROM ELEC. PARTS KIT (048300) TO END OF WIRE AND MOUNT TO EXSISTING SCREW AS SHOWN.

PHOTO 8



PHOTO 9



RED WIRE (POWER) FROM MEGA CONTROL BOX CABLE. ATTACH TO ONE OF THE SPARE BLUE WIRE FROM TRUCK USING A BUTT SPLICE FROM ELEC. PARTS KIT (048300)

KOMATSU SPARE CONNECTOR

PHOTO 10




**KOMATSU HM300-3/5
HM400-3/5
HD325-7**
TRUCK BATTERY BOX
ELEC. CONTROL COMPONENTS

RED WIRE (POWER) FROM MEGA SOLENOID BOX CABLE. ATTACH WIRE RING TERMINAL FROM ELEC. PARTS KIT(048300) TO END OF WIRE AND MOUNT TO EXSISTING SCREW AS SHOWN.

PHOTO 11



24 VDC POWER INSTALLATION

| | | | | | |
|---|--|-----------------|--|--------------|--|
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| TOLERANCE: UNLESS OTHERWISE SPECIFIED | | | | | |
| 3 PLACES ± 0.010 | | 2 PLACES ± 0.03 | | ANGULAR ± 1° | |
| NAME OF JOB: KOMATSU HM400 MAC8 | | | | | |
| DRAWING TITLE: IN CAB CONTROL LEGO BOX | | | | | |
| SCALE: NTS | | DATE: 31-MAY-17 | | DWG. No.: | |
| DRAWN BY: TCS | | SHEET 3 OF 5 | | 051879-3 | |

PUMP ON SWITCH CIRCUIT,
REPLACES BODY RAISE CIRCUIT
FROM HOIST CONTROL LEVER
TO THE EPC VALVE.

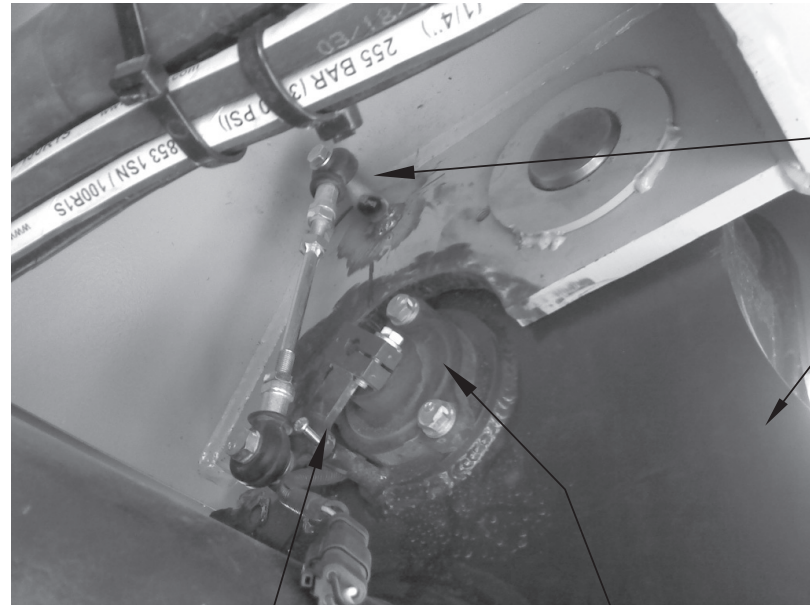


PHOTO 12

ALIGN ARM WITH ZERO
PIN AND LOCK IN PLACE
TO EXISTING HARDWARE.

BODY
POTENTIOMETER

OBTAIN REQUIRED RESISTANCE,

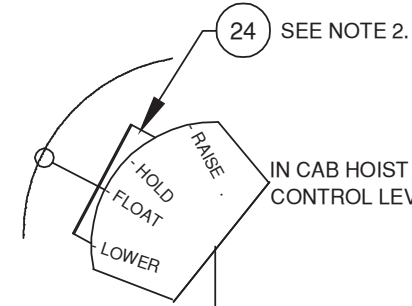
| BODY POTENTIOMETER RESISTANCE | | |
|-------------------------------|-----------|------------|
| COLOR/PIN | COLOR/PIN | RESISTANCE |
| RED/A | BLACK/C | 5.57 Ohms |
| WHITE/B | BLACK/C | 5.17 Ohms |

REAR OF FRAME HM400-2

NOTE: PHOTO NOT UPDATED
WITH CURRENT FLAT BOTTOM
TANK DESIGN.



PHOTO 13



IN CAB HOIST
CONTROL LEVER

MEGA EPC-CUT OFF DUMMY COIL
MOUNTING LOCATION. BOLT ON
TRUCK WHERE APPLICABLE AND
SECURE WITH ITEMS 33, 34,
43 & 45
DO NOT OVER
TIGHTEN MOUNTING SCREWS.
MAX TORQUE 5 IN LBS.

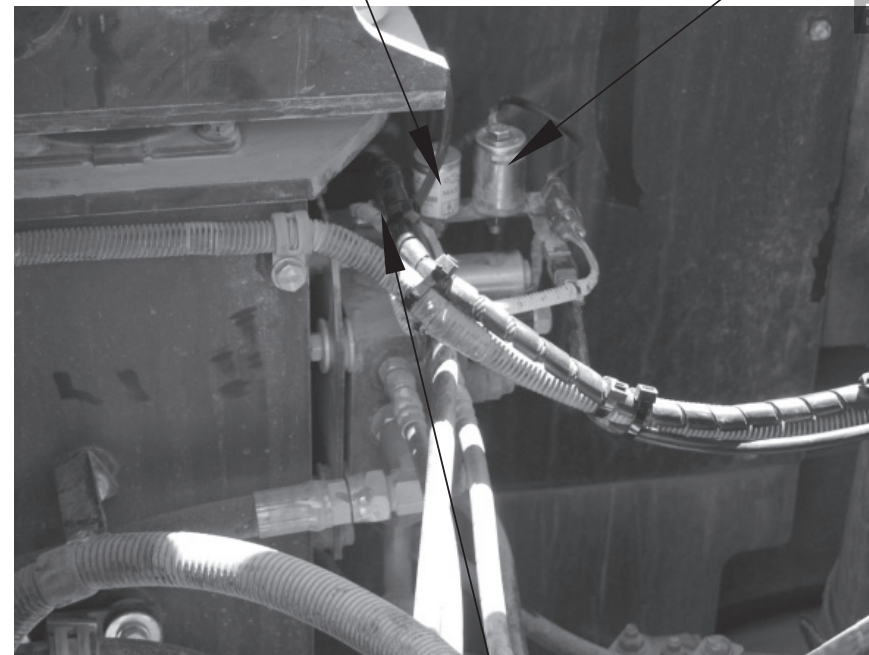


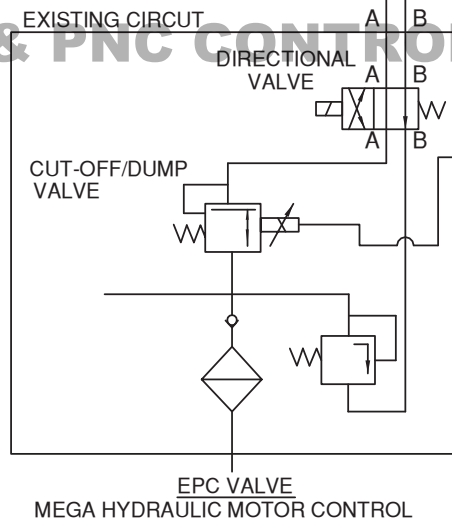
PHOTO 14

LOCATE FLOW AMPLIFIER DUMMY COIL
(NOT SHOWN) NEXT TO EPC-CUT-OFF
DUMMY COIL AND SECURE
WITH ITEMS 33,34,43&45
DO NOT OVER
TIGHTEN MOUNTING SCREWS
MAX TORQUE 5 IN LBS.

EPC VALVE
MODIFICATION
INSTALLATION

DIRECTIONAL
COIL

REMOVE COIL FROM
SPOOL & MOUNT TO BRACKET



EPC VALVE
MEGA HYDRAULIC MOTOR CONTROL

VEHICLE
CONTROLLER

EPC CUT-OFF
DUMP CONTROL

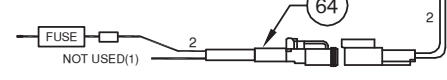
HOIST VALVE RAISE
(POWER OFF=HOIST UP)

FLOW
AMPLIFIER

HOIST VALVE LOWER

PNC DIRECTIONAL CONTROL VALVE

POWER CABLE. CONNECT TO 24V
SWITCHED POWER FROM TRUCK USING
A BUTT SPLICE FROM ELEC. PARTS
KIT (048300) SEE PHOTO 9



20

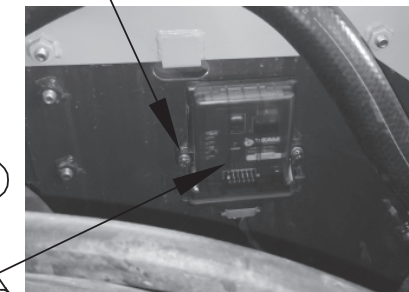
DUMMY
COIL

ADD DUMMY COIL
(10-35 OHMS)
& MOUNT TO FRAME
(SEE PHOTO 14)

20

DUMMY
COIL

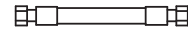
ADD DUMMY COIL
(10-35 OHMS)
& MOUNT TO FRAME
(SEE PHOTO 14)



DRILL TWO CLEARANCE HOLES FOR A
6MM BOLT AND MOUNT PWM RELAY
BOX ON LEFT FENDER
ABOVE PNC VALVE

| | | | | | |
|---|--|-----------------|--|--------------|--|
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| 3 PLACES ± 0.010 | | 2 PLACES ± 0.03 | | ANGULAR ± 1° | |
| NAME OF JOB: KOMATSU HM400 MAC8 | | | | | |
| DRAWING TITLE: IN CAB CONTROL BOX/SOLENOID BOX MOUNT | | | | | |
| SCALE: NTS | | DATE: 31-MAY-17 | | DWG. No.: | |
| DRAWN BY: TCS | | SHEET 4 OF 5 | | 051879-4 | |

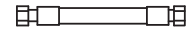
051879-01



NOTE: HOSE LABEL TO READ "051879-01"

| ITEM | Part No. | PART NAME | QTY | REF No. | WT. |
|------|-----------|--------------------------|-----|---------|-----|
| 1 | 356018 | HOSE END, -6 JIC 0° | 1 | | STK |
| 2 | 356024 | HOSE END, -6 ORF 0° | 1 | | STK |
| 3 | H51879-01 | HOSE, SAE100R12 -6 X32.0 | 1 | 354780 | STK |

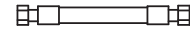
051879-07



NOTE: HOSE LABEL TO READ "051879-07"

| ITEM | Part No. | PART NAME | QTY | REF No. | WT. |
|------|-----------|--------------------------|-----|---------|-----|
| 1 | 356024 | HOSE END, -6 ORF 0° | 1 | | STK |
| 2 | 306638 | HOSE END -6, STR ORF -8 | 1 | | STK |
| 3 | H51879-07 | HOSE, SAE100R12 -6 X61.0 | 1 | 354780 | STK |

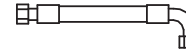
051879-02



NOTE: HOSE LABEL TO READ "051879-02"

| ITEM | Part No. | PART NAME | QTY | REF No. | WT. |
|------|-----------|--------------------------|-----|---------|-----|
| 1 | 356018 | HOSE END, -6 JIC 0° | 2 | | STK |
| 2 | H51879-02 | HOSE, SAE100R12 -6 X55.0 | 1 | 354780 | STK |

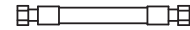
051879-08



NOTE: HOSE LABEL TO READ "051879-08"

| ITEM | Part No. | PART NAME | QTY | REF No. | WT. |
|------|-----------|---------------------------|-----|---------|-----|
| 1 | 356024 | HOSE END, -6 ORF 0° | 1 | | STK |
| 2 | 356031 | HOSE END, -6 ORF 90° | 1 | | STK |
| 3 | H51879-08 | HOSE, SAE100R12 -6 X199.0 | 1 | 354780 | STK |

051879-03



NOTE: HOSE LABEL TO READ "051879-03"

| ITEM | Part No. | PART NAME | QTY | REF No. | WT. |
|------|-----------|----------------------------|-----|---------|-----|
| 1 | 355604 | HOSE END, -4 JIC 0° | 2 | | STK |
| 2 | H51879-03 | HOSE, SAE100R1AT -4 X355.0 | 1 | 306635 | STK |

**KOMATSU HM300-3/5
HM400-3/5
HD325-7
EPC & PNC CONTROL COMPONENTS**

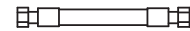
051879-04



NOTE: HOSE LABEL TO READ "051879-04"

| ITEM | Part No. | PART NAME | QTY | REF No. | WT. |
|------|-----------|-----------------------------|-----|---------|-----|
| 1 | 355604 | HOSE END, -4 JIC 0° | 2 | | STK |
| 2 | H51879-04 | HOSE, SAE100R1AT -4 X 339.0 | 1 | 306635 | STK |

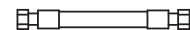
051879-05



NOTE: HOSE LABEL TO READ "051879-05"

| ITEM | Part No. | PART NAME | QTY | REF No. | WT. |
|------|-----------|-----------------------------|-----|---------|-----|
| 1 | 355604 | HOSE END, -4 JIC 0° | 2 | | STK |
| 2 | H51879-05 | HOSE, SAE100R1AT -4 X 344.0 | 1 | 306635 | STK |

051879-06



NOTE: HOSE LABEL TO READ "051879-06"

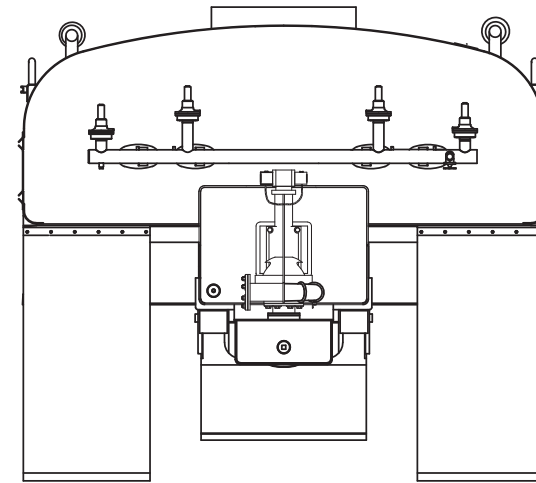
| ITEM | Part No. | PART NAME | QTY | REF No. | WT. |
|------|-----------|-----------------------------|-----|---------|-----|
| 1 | 355604 | HOSE END, -4 JIC 0° | 2 | | STK |
| 2 | H51879-06 | HOSE, SAE100R1AT -4 X 354.0 | 1 | 306635 | STK |

| | | | | |
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| <small>3 PLACES ± 0.010</small> | | <small>2 PLACES ± 0.03</small> | | <small>ANGULAR ± 1°</small> |
| <small>NAME OF JOB: KOMATSU HM400 MAC8</small> | | | | |
| <small>DRAWING TITLE: IN CAB CONTROL LEGO BOX</small> | | | | |
| <small>SCALE: NTS</small> | <small>DATE: 31-MAY-17</small> | | <small>DWG. No.: 051879-5</small> | |
| <small>DRAWN BY: TCS</small> | <small>SHEET 5 OF 5</small> | | | |

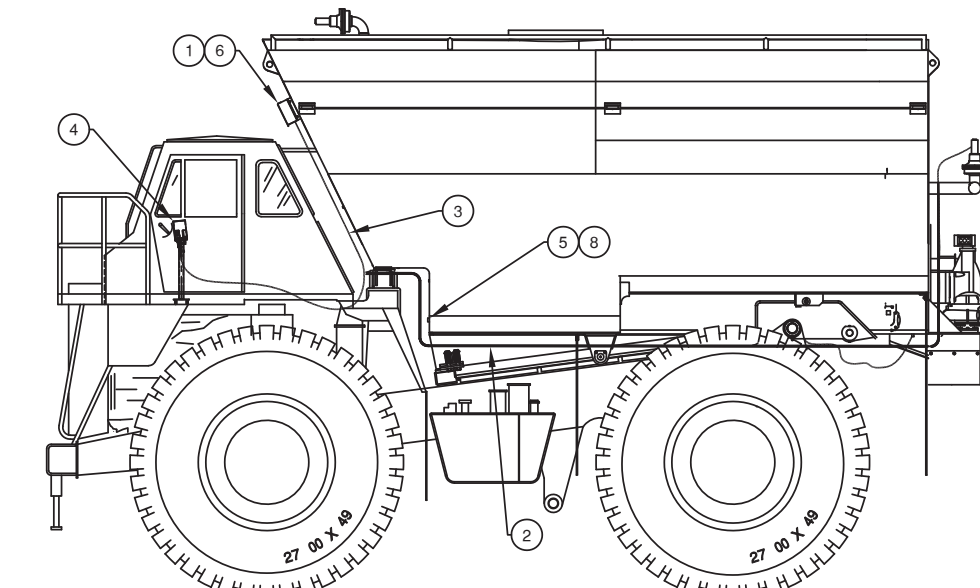
| | | | | 95883 |
|---------------|--|---------------|---------------------|----------------------|
| MSCS | | FOR: CAT 777G | TRACTOR CODE: CR10G | |
| DEALER: QUINN | | | | ISSUE DATE: 9-SEP-24 |
| | | | | ISSUED BY: TCS |
| PART | DESCRIPTION | REF | QTY | |
| 051143 | SPRAY CONTROL SYSTEM | 051140 | - | |
| 051127 | CABLE KIT | | -1 | |
| 047404 | CAB CONTROL BOX | | -1 | |
| 061443 | CABLE KIT, SUPERBOX TO LEGO | 052403 | | |
| AB22BJ | CONTROL BOX | 051856 | - | |
| 052458 | PEDESTAL MOUNT | | - | |
| 051137 | SPRAY HEADS | | 4 | |
| 051159 | WATER CANNON | | - | |
| 043569 | NOZZLE | | - | |
| 051167 | DRAIN VALVE | 051164 | - | |
| 051215 | PUMP ASSEMBLY | 051210 | - | |
| 047625 | THREE PIECE FIXED SS SPRAYBAR | | - | |
| | | | | |
| 046470 | MOUNT, MANIFOLD | STK | 1 | |
| 059136 | HYD INSTALL | | - | |
| 046724 | X-OVER ASM, -24 | STK | -1 | |
| 058563 | TRACTOR INTEGRATION W/ HOIST | | - | |
| 048300 | ELECTRICAL PARTS KIT | STK | 1 | |
| | | | | |
| REVISIONS | | | | |
| REV | DESCRIPTION | DATE | | |
| A | ABG42BJ->AB22BJ, RMV 051164 | 10-Sep-24 | | |
| B | 052400-DS->051143(051140), ADD (-1)051227, (-1) 047404, (1) 061443(052403), 048300 | 18-Sep-24 | | |
| | | | | |
| | | | | |

| BILL OF MATERIAL | | | | | | |
|------------------|----------|--|--------------|-------------------|-----|----------------|
| No. | Part No. | PART NAME | QTY | REF No. | WT. | |
| 051140 | 1 | 047403 SOLENOID BOX, 6HD, SS | 1 | | | REF |
| | 2 | 051118 DUAL SOURCE HOSE KIT | 1 | 051118 | | REF |
| | 3 | 051125 ELECTRICAL CABLE KIT | 1 | 051125 | | REF |
| 051141 | 1 | 047403 SOLENOID BOX, 6HD, SS | 1 | | | REF |
| | 2 | 051119 DUAL SOURCE HOSE KIT | 1 | 051118 | | REF |
| | 3 | 051126 ELECTRICAL CABLE KIT | 1 | 051125 | | REF |
| 051142 | 1 | 047403 SOLENOID BOX, 6HD, SS | 1 | | | REF |
| | 2 | 051120 DUAL SOURCE HOSE KIT | 1 | 051118 | | REF |
| | 3 | 051126 ELECTRICAL CABLE KIT | 1 | 051125 | | REF |
| 051143 | 1 | 047403 SOLENOID BOX, 6HD, SS | 1 | | | REF |
| | 2 | 051121 DUAL SOURCE HOSE KIT | 1 | | | REF |
| | 3 | 051127 ELECTRICAL CABLE KIT | 1 | 051125 | | REF |
| 051144 | 1 | 047403 SOLENOID BOX, 6HD, SS | 1 | | | REF |
| | 2 | 051122 DUAL SOURCE HOSE KIT | 1 | 051118 | | REF |
| | 3 | 051127 ELECTRICAL CABLE KIT | 1 | 051125 | | REF |
| 051145 | 1 | 051276 SOLENOID BOX, 6HD, CARBON | 1 | 047403 | | REF |
| | 2 | 051118 DUAL SOURCE HOSE KIT | 1 | 051118 | | REF |
| | 3 | 051125 ELECTRICAL CABLE KIT | 1 | 051125 | | REF |
| 051146 | 1 | 051276 SOLENOID BOX, 6HD, CARBON | 1 | 047403 | | REF |
| | 2 | 051119 DUAL SOURCE HOSE KIT | 1 | 051118 | | REF |
| | 3 | 051126 ELECTRICAL CABLE KIT | 1 | 051125 | | REF |
| 051147 | 1 | 051276 SOLENOID BOX, 6HD, CARBON | 1 | 047403 | | REF |
| | 2 | 051120 DUAL SOURCE HOSE KIT | 1 | 051118 | | REF |
| | 3 | 051126 ELECTRICAL CABLE KIT | 1 | 051125 | | REF |
| 051148 | 1 | 051276 SOLENOID BOX, 6HD, CARBON | 1 | 047403 | | REF |
| | 2 | 051121 DUAL SOURCE HOSE KIT | 1 | 051118 | | REF |
| | 3 | 051127 ELECTRICAL CABLE KIT | 1 | 051125 | | REF |
| 051149 | 1 | 051276 SOLENOID BOX, 6HD, CARBON | 1 | 047403 | | REF |
| | 2 | 051122 DUAL SOURCE HOSE KIT | 1 | 051118 | | REF |
| | 3 | 051127 ELECTRICAL CABLE KIT | 1 | 051125 | | REF |
| 4 | 047404 | CAB CONTROL BOX, 6HD | 1 | | | REF |
| 5 | 043627 | WATER LEVEL KIT | 1 | | | REF |
| 6 | 043579 | BRACKET, SOLENOID BOX | 2 | | | REF |
| 7 | 041348 | INSTALLATION INSTRUCTIONS | 1 | | | STK |
| 8 | 041477 | WATER LEVEL SENSOR BOSS | 1 | | | STK |
| 9 | 037689 | SHIPPING BOX, 4'X4' | 1 | | | STK |

914



REAR VIEW



| REVISIONS | | | | SCALE: | DATE: | DWG. No.: |
|-----------|--------------|---------|----------|--------|--------------|-----------|
| REV | DESCRIPTION | DATE | APPROVED | NTS | 12-2-16 | 051140 |
| A | ADDED 037689 | 2-13-17 | DSD | DSD | SHEET 1 OF 1 | |

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3 PLACES ± 0.010 2 PLACES ± 0.03 ANGULAR ± 1°

NAME OF JOB: SPRAY SYSTEM KITS
DRAWING TITLE: ELECTRO-HYD SCS BASE KIT

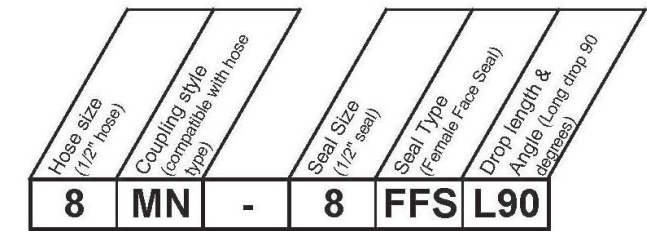
| Anchor Coupling Crimp Chart | | Created 05/16/11 | | Updated 08/29/16 | | | | |
|----------------------------------|-----------|------------------|--------------------|-------------------------|----------------|---------------------|----------------------|-------------------------|
| Crimp information for MEGA Corp. | | | | Per "Crimp 89" | | | | |
| Hose Dash Size | Hose Type | Coupling Style | Crimp Dia (inches) | Crimp Tol. +/- (inches) | Crimp Dia (mm) | Crimp Tol. +/- (mm) | Skive Length +/- 1mm | Crimp Length 1.5 mm +/- |
| -4 | CND | MN | 0.710 | 0.005 | 18.03 | 0.13 | NO SKIVE | FULL |
| -6 | CND | MN | 0.865 | 0.010 | 21.97 | 0.26 | NO SKIVE | FULL |
| -8 | CND | MN | 0.990 | 0.005 | 25.15 | 0.13 | NO SKIVE | FULL |
| -4 | FN | MN | 0.655 | 0.010 | 16.64 | 0.26 | NO SKIVE | FULL |
| -4 | FND | MN | 0.655 | 0.010 | 16.64 | 0.26 | NO SKIVE | FULL |
| -6 | FND | MN | 0.825 | 0.010 | 20.96 | 0.26 | NO SKIVE | FULL |
| -8 | FND | MN | 0.930 | 0.010 | 23.62 | 0.26 | NO SKIVE | FULL |
| -6 | GABB | MN | 0.880 | 0.010 | 22.35 | 0.26 | NO SKIVE | FULL |
| -8 | GABB | MN | 0.990 | 0.010 | 25.15 | 0.26 | NO SKIVE | FULL |
| -6 | HPSA | XN | 0.965 | 0.005 | 24.50 | 0.13 | NO SKIVE | FULL |
| -8 | HPSA | XN | 1.122 | 0.005 | 28.50 | 0.13 | NO SKIVE | FULL |
| -10 | HPSA | XN | 1.240 | 0.010 | 31.50 | 0.26 | NO SKIVE | FULL |
| -12 | HPSA | XN | 1.358 | 0.010 | 34.50 | 0.26 | NO SKIVE | FULL |
| -12 | HPSA | ESA | 1.213 | 0.005 | 30.80 | 0.13 | 36 | FULL |
| -12 | HPSA | S4G/32 (Braze) | 1.245 | 0.010 | 31.62 | 0.26 | 39 | 44MM set up length |
| -12 | HPSA | S4G/32 (w/stake) | 1.245 | 0.010 | 31.62 | 0.26 | 39 | FULL |
| -16 | HPSA | ESA | 1.545 | 0.005 | 39.25 | 0.13 | 41 | 36MM setup length |
| -16 | HPSA | S4G (Braze) | 1.615 | 0.010 | 41.02 | 0.26 | 45 | 45MM set up length |
| -16 | HPSA | S4G/32 (w/stake) | 1.615 | 0.010 | 41.02 | 0.26 | 45 | FULL |
| -20 | HPSA | S4G (Braze) | 1.910 | 0.010 | 48.51 | 0.26 | 45 | 45MM set up length |
| -20 | HPSA | S4G/32 (w/stake) | 1.910 | 0.010 | 48.51 | 0.26 | 45 | FULL |
| -24 | HPSA | S4G (Braze) | 2.190 | 0.010 | 55.63 | 0.26 | 57 | 60MM set up length |
| -24 | HPSA | XN4 | 2.293 | 0.010 | 58.25 | 0.26 | NO SKIVE | FULL |
| -32 | HPSA | S4G (Braze) | 2.710 | 0.010 | 68.83 | 0.26 | 62 | 62MM set up length |
| -4 | SC2 | MN | 0.677 | 0.005 | 17.20 | 0.13 | NO SKIVE | FULL |
| -12 | SC2 | MN | 1.217 | 0.010 | 30.90 | 0.26 | NO SKIVE | FULL |
| -20 | SWH | MN | 2.025 | 0.010 | 51.44 | 0.26 | NO SKIVE | FULL |
| -24 | SWH | MN | 2.410 | 0.010 | 61.21 | 0.26 | NO SKIVE | FULL |
| -32 | SWH | MN | 2.835 | 0.010 | 72.01 | 0.26 | NO SKIVE | FULL |
| -40 | SWH | MN | 3.330 | 0.010 | 84.58 | 0.26 | NO SKIVE | FULL |
| -24 | XTSES | XN6 | 2.520 | 0.010 | 64.00 | 0.260 | NO SKIVE | FULL |
| -24 | XTSES | MCSHMCSX | 2.470 | 0.010 | 62.74 | 0.260 | | FULL |

Step by Step How to Set Up a New Crimp

- 1.) Select [CRIMP TO DIAMETER]
- 2.) Enter the nominal crimp diameter and select [USE SAVED DIE]
- 3.) Select [1-10]
- 4.) Select the correct die. Find the die that is the closest to your nominal crimp diameter without going over that value (example: Nominal crimp is 24.5, die choices are 20, 23, 25, 27. The die correct selection would be 23.) Use the =>, <=< arrows to move to other screens to show all die choices. Once the correct die has been identified, select that die by hitting the button next to the die and select [LOAD], then [OK]
- 5.) Check values you just entered, if all is ok select [MANUAL]. Then select [SAVE]
- 6.) Select the location for the crimp information to be stored by size. Pick an open location in the list. When you select the location, it will NOT highlight which is normal. Select [EDIT].
- 7.) Enter the description you would like to use. (Try to make it consistent with other saved crimps already in your crimper.) Enter the description by selecting the empty text box. Select [ENT] when complete.
- 8.) Select [SAVE]
- 9.) Select [EXIT]
- 10.) Select [SAVE]
- 11.) Go to the size you just saved to make sure it saved correctly and all the crimp information is correct. Be patient, it can take a couple seconds for the computer to update and for the new crimp to show up on the list.

Anchor Coupling Inc. Interpreting The Coupling Description

* Example of typical coupling description



Hose and Coupling Compatibility Chart

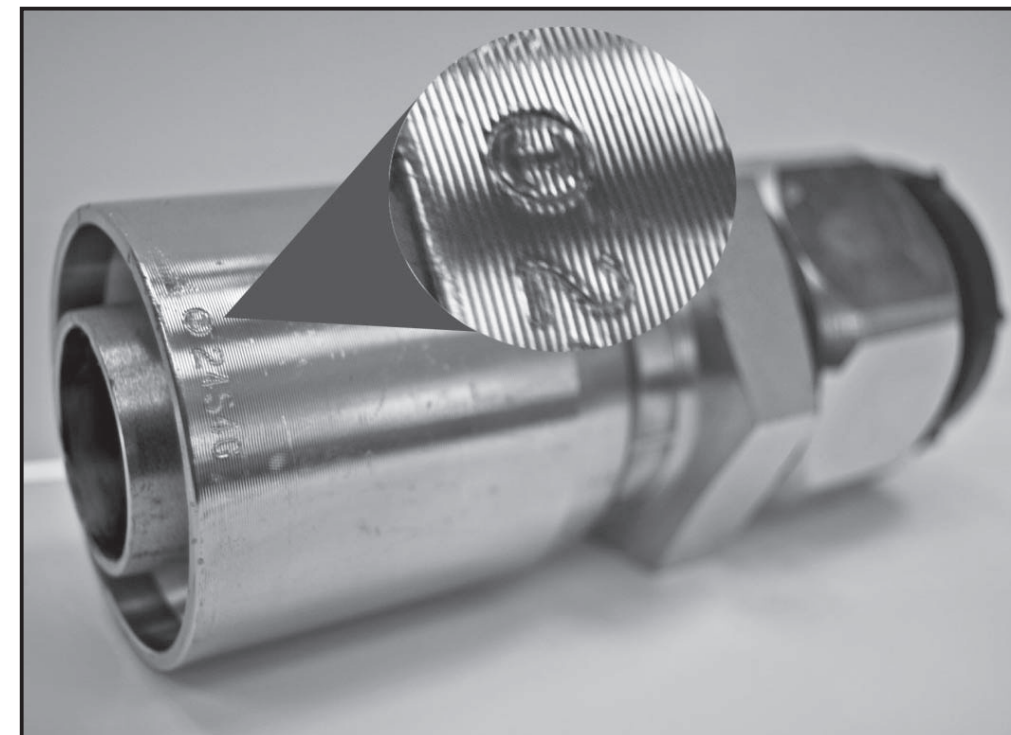
* Determining what coupling goes with what hose.

| Hose Dash Size | Hose Type | Coupling Style |
|----------------|-----------|----------------|
| -4 | HB3 | MN |
| -6 | HB3 | MN |
| -8 | HB3 | MN |
| -12 | HB3 | MN |
| -16 | HB3 | MN |
| -20 | SWH | MN |
| -24 | SWH | MN |
| -32 | SWH | MN |

| Couplings | |
|-----------|-----|
| 4 | MN |
| 6 | MN |
| 8 | MN |
| 12 | MN |
| 24 | MN |
| 32 | MN |
| 40 | MN |
| 12 | S4G |
| 16 | S4G |
| 20 | S4G |
| 24 | S4G |
| 32 | S4G |
| 6 | XN |
| 8 | XN |

| Hose | |
|------|------|
| 6 | CND |
| 8 | CND |
| 4 | SC2 |
| 12 | SC2 |
| 4 | FN |
| 20 | SWH |
| 24 | SWH |
| 32 | SWH |
| 40 | SWH |
| 8 | FND |
| 4 | CND |
| 6 | GABB |
| 8 | GABB |
| 6 | HPSA |
| 8 | HPSA |
| 12 | HPSA |
| 16 | HPSA |
| 20 | HPSA |
| 24 | HPSA |
| 32 | HPSA |

| Hose Dash Size | Anchor Hose Type | Anchor Hose Spec. | Caterpillar Hose Spec. | Industry Hose Specifications | Hose Maximum Working Pressure PSI | Hose Minimum Bend Radius INCH | General information |
|----------------|------------------|-------------------|------------------------|------------------------------|-----------------------------------|-------------------------------|--------------------------------|
| -4 | CND | H-282 | 1E0294 | SAE100R2AT, EN853-2SN | 5800 | 4 | 2 Wire Braid std bend radius |
| -6 | CND | H-282 | 1E0294 | SAE100R2AT, EN853-2SN | 4800 | 5 | 2 Wire Braid std bend radius |
| -8 | CND | H-282 | 1E0294 | SAE100R2AT, EN853-2SN | 4000 | 7 | 2 Wire Braid std bend radius |
| -4 | FN | H-258 | 1E1964 | SAE100R1AT | 2750 | 4 | 1 Wire Braid std bend radius |
| -8 | FND | H-281 | 1E0716 | SAE100R1AT, EN853-2SN | 2320 | 7 | 1 Wire Braid std bend radius |
| -6 | GABB | H-295 | 1E0662 | J1402A (Air Brake) | 200 | 3.5 | Air Brake |
| -8 | GABB | H-295 | 1E0662 | J1402A (Air Brake) | 200 | 4 | Air Brake |
| -6 | HPSA | H-284 | 1E0736 | SAE100R12 | 4000 | 2.5 | High pressure Spiral |
| -8 | HPSA | H-284 | 1E0736 | SAE100R12 | 4000 | 3.5 | High pressure Spiral |
| -12 | HPSA | H-284 | 1E0736 | SAE100R12 | 4000 | 4.75 | High pressure Spiral |
| -16 | HPSA | H-284 | 1E0736 | SAE100R12 | 4000 | 6 | High pressure Spiral |
| -20 | HPSA | H-284 | 1E0736 | SAE100R12 | 3000 | 8.25 | High pressure Spiral |
| -24 | HPSA | H-284 | 1E0736 | SAE100R12 | 2500 | 10 | High pressure Spiral |
| -32 | HPSA | H-284 | 1E0736 | SAE100R12 | 2500 | 12.5 | High pressure Spiral |
| -4 | SC2 | H-305 | 1E4198 | SAE100R16, EN857-2SC | 5800 | 2 | Half bend Compact 2 Wire Braid |
| -12 | SC2 | H-305 | 1E4198 | SAE100R16, EN857-2SC | 3120 | 4.75 | Half bend Compact 2 Wire Braid |
| -20 | SWH | H-262 | 1E0844 | SAE100R4 | 200 | 8 | Suction & Return |
| -24 | SWH | H-262 | 1E0844 | SAE100R4 | 150 | 10 | Suction & Return |
| -32 | SWH | H-262 | 1E0844 | SAE100R4 | 100 | 12 | Suction & Return |
| -40 | SWH | H-262 | 1E0844 | SAE100R4 | 60 | 14 | Suction & Return |



| Standard Specifications by Process | | | | | | |
|------------------------------------|---|---|--|--|---|---|
| WELD PROCESS IDENTIFICATION | WELD PROCESS 1 (WP1) | WELD PROCESS 2 (WP2) | WELD PROCESS 3 (WP3) | WELD PROCESS 4 (WP4) | WELD PROCESS 5 (WP5) | WELD PROCESS 6 (SS) |
| PROCESS | FCAW - GAS SHIELDED | GMAW | SMAW | GTAW | SAW | FCAW - GAS SHIELDED |
| ELECTRODE/FILLER METAL | AWS E71T-1C | AWS ER70S-6 | AWS E7018 | AWS ER70S-6 | AWS EC1 | E309LT1-1 |
| ELECTRODE/FILLER METAL DIAMETER | 0.045 inch | 0.045 inch | 0.13 inch | 0.08 inch | 0.08 inch | 0.045 inch |
| MINIMUM VOLTAGE/AMPERAGE/WFS | 22v/145amp/175wfs | 19v/145amp/125wfs | 90amp | 19v/120amp | 20v/300amp | 24c/130amp/200wfs |
| MAXIMUM VOLTAGE/AMPERAGE/WFS | 35v/335amp/600wfs | 21v/200amp/200wfs | 160amp | 30v/340amp | 44v/1000amp | 29v190amp/400wfs |
| SHIELD GAS/FLOW | 85% Ar / 15% CO ₂ 35-40 CFH | 85% Ar/15% CO ₂ 35-40 CFH | N/A | 85% Ar/15% CO ₂ 35-40 CFH | Flux Composite | 100% CO ₂ /40-50 CFH |
| MAXIMUM WELD SIZE IN ONE PASS | 0.375 inch FILLET/0.25 inch FILL | 0.375 inch FILLET/0.25 inch FILL | 0.375 inch FILLET/0.20 inch FILL | NOT SPECIFIED | NOT SPECIFIED | 0.375 inch FILLET/0.25 inch FILL |
| WHERE USED | General weldments of A36 & A572 steel 1.50 inch and under requiring no pre or post weld heat treatment. | General weldments of A36 & A572 steel 1.50 inch and under requiring no pre or post weld heat treatment. | Weldment of field repaired or assembled parts. | Weldment of parts requiring small welds and hydraulic lines/manifolds. | General weldments requiring high deposition rates and deep penetrating welds. | General weldments of 304 & 304L plate and pipe stainless steel. |

| Preheat for 1.50 inch and under | | | |
|---------------------------------|----------|------------------|-----------------|
| Material | Grade | Thickness | Preheat Temp °F |
| A36 | | 0.13-0.75 > inch | 32° |
| | | < 0.75-1.50 inch | 50° |
| A572 | 42,50,55 | 0.13-0.75 > inch | 32° |
| | | < 0.75-1.50 inch | 50° |
| | 60,65 | 0.13-0.75 inch | 50° |
| A514 | A,B | 0.13-0.75 > inch | 50° |

| Preheat for over 0.75 inch | | | |
|----------------------------|----------|------------------|-----------------|
| Material | Grade | Thickness | Preheat Temp °F |
| A572 | 42,50,55 | < 1.50-2.50 inch | 150° |
| | | < 2.50 inch | 225° |
| | 60,65 | < 0.75-1.50 inch | 150° |
| < 1.50-2.50 | | 225° | |
| < 2.50 | | 300° | |
| A514 | A,B | < 0.75-1.50 inch | 125° |
| | | < 1.50-2.50 inch | 175° |
| | | < 2.50 inch | 225° |

NOTES:

When a process is not specified on the weld symbol tail, see notes on engineering drawings for special weld procedures.

Refer to the Weld Procedure Specification (WPS) for individual weld requirements.



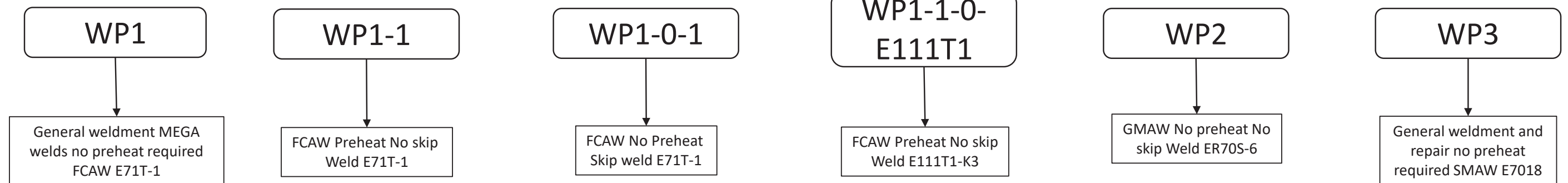
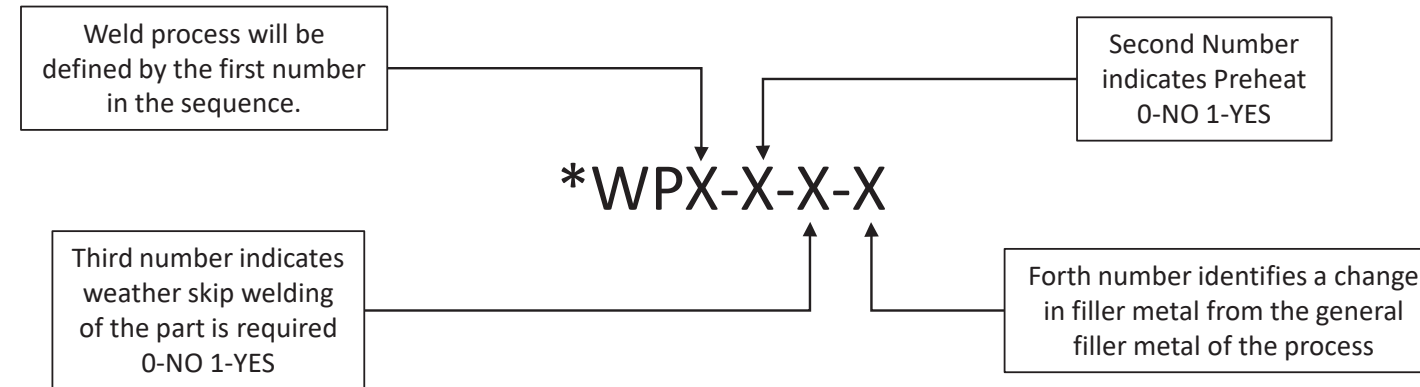
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| Document | Revision |
|----------------------------|----------|
| Weld Process Specification | E |
| Page 1 of 2 | |

Weld Process Identification

*When a number in the sequence is omitted then the call out will refer to the default specification of that weld procedure.

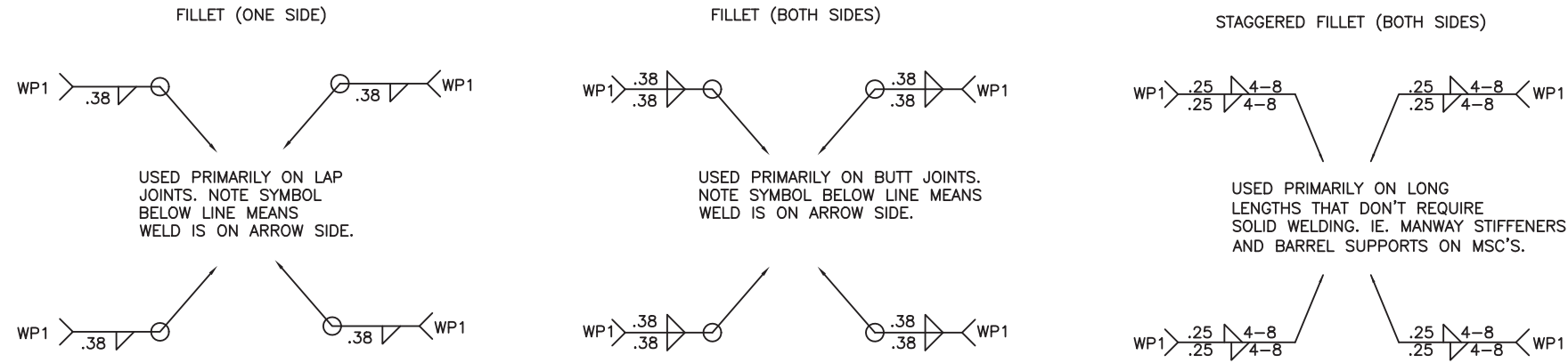


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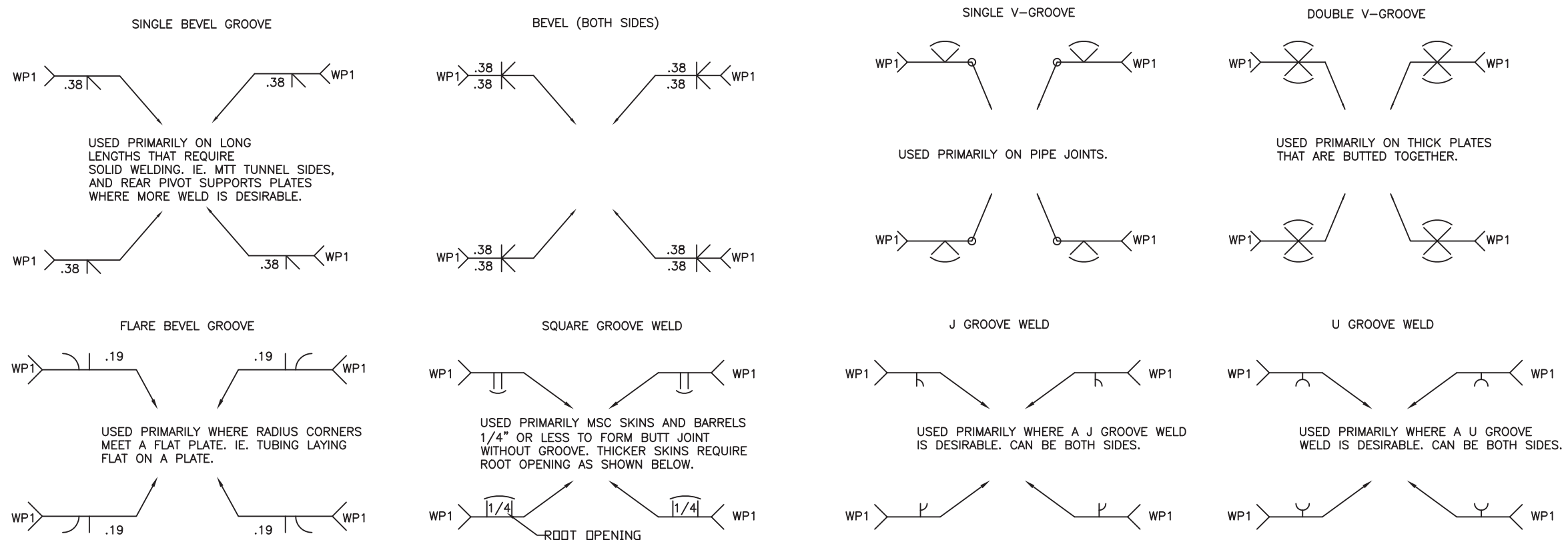
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| Document | Revision |
|----------------------------|----------|
| Weld Process Specification | E |
| Page 2 of 2 | |

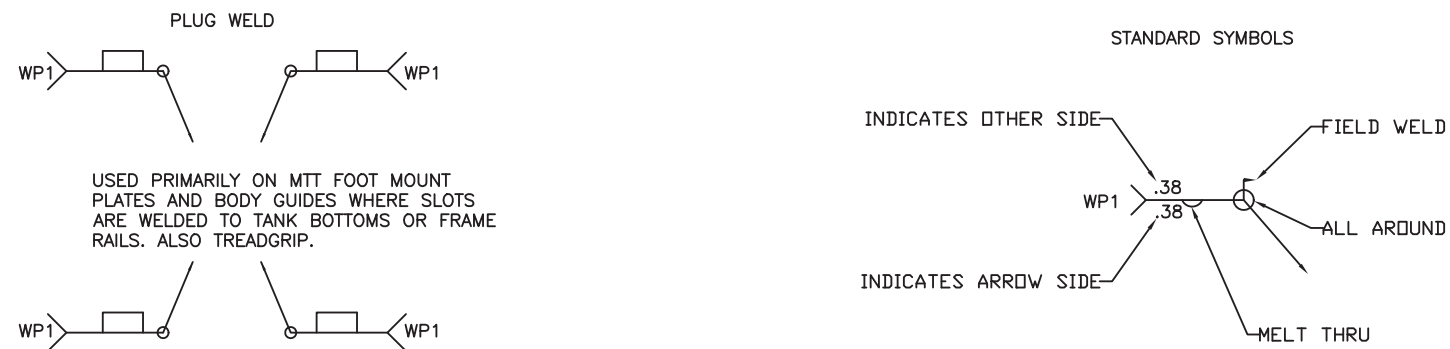
FILLET WELD SYMBOLS



GROOVE WELD SYMBOLS



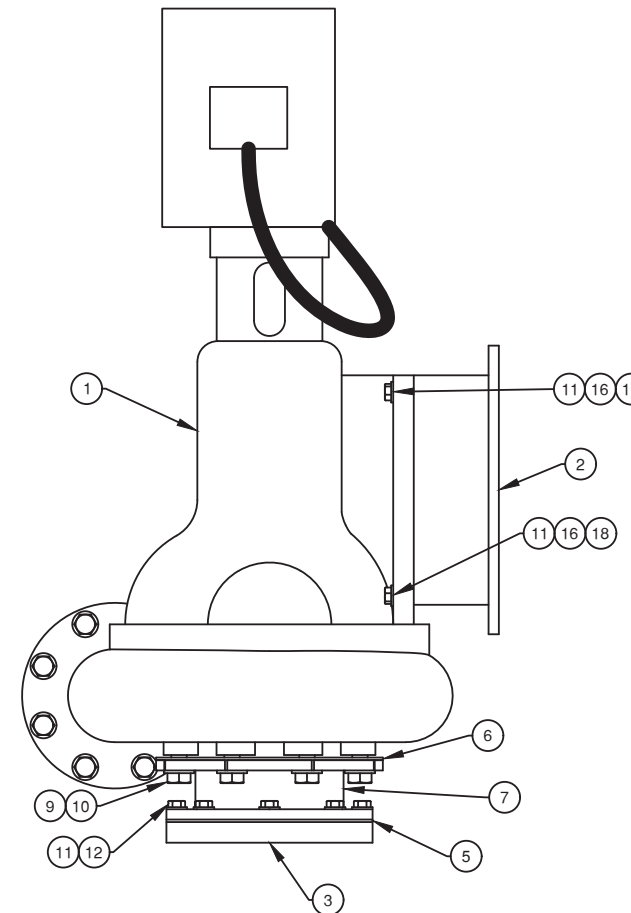
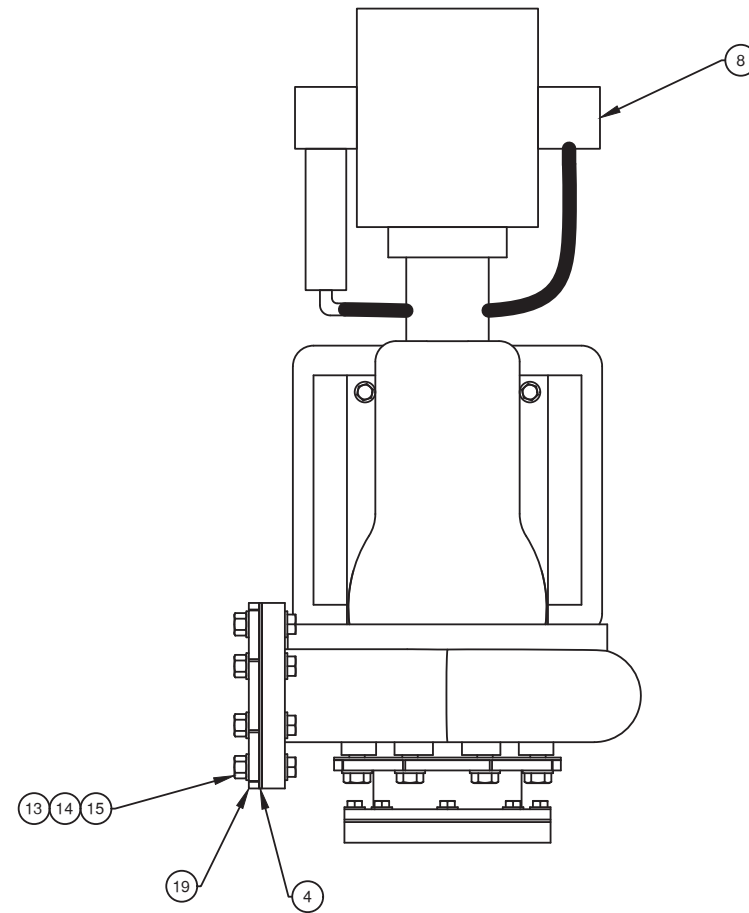
MISC. WELD SYMBOLS



927

BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|--------|----------|--------------------------------|-----|---------|------|
| 051210 | 1 047460 | PUMP ASM, M4B, M75 17-6 | 1 | 047460 | REF |
| 051211 | 1 047461 | PUMP ASM, M4B, M75 20-6 | 1 | 047460 | REF |
| 051212 | 1 047462 | PUMP ASM, M4B, M75 22-6 | 1 | 047460 | REF |
| 051213 | 1 047463 | PUMP ASM, M4B, M75 25-6 | 1 | 047460 | REF |
| 051214 | 1 047464 | PUMP ASM, M4B, M75 27-6 | 1 | 047460 | REF |
| 051215 | 1 047465 | PUMP ASM, M4B, M75 30-6 | 1 | 047460 | REF |
| 051216 | 1 047471 | PUMP ASM, M4B, M75 20/20-6 | 1 | 047470 | REF |
| 051217 | 1 047470 | PUMP ASM, M4B, M75 22/20-6 | 1 | 047470 | REF |
| 051218 | 1 047472 | PUMP ASM, M4B, M75 22/22-6 | 1 | 047470 | REF |
| 2 | 041008 | BRACKET, M4 PUMP MOUNTING | 1 | | STK |
| 3 | 049002 | SUMP OUTLET FLANGE, METRIC | 1 | | STK |
| 4 | 012930 | GASKET, PUMP OUTLET FLANGE | 1 | | STK |
| 5 | 040922 | GASKET, LOWER PUMP INTAKE | 1 | | STK |
| 6 | 302527 | GASKET, UPPER PUMP INTAKE | 1 | | STK |
| 7 | 040919 | PUMP RISER, CARBON | 1 | | REF |
| 8 | 046724 | CROSSOVER ASM, -24 | 1 | | STK |
| 9 | 350007 | WASHER, FLAT, 3/4" | 8 | | SPLY |
| 10 | 350335 | SCREW, CAP, 3/4-10 UNC X 1.50" | 8 | | SPLY |
| 11 | 355265 | WASHER, M12 | 16 | | SPLY |
| 12 | 355520 | HHCS M12X1.75X35MM | 16 | | SPLY |
| 13 | 355266 | WASHER, M16 | 16 | | SPLY |
| 14 | 355487 | HHCS, M16X2.0X60MM | 8 | | SPLY |
| 15 | 355472 | NUT, M16X2.0 | 8 | | SPLY |
| 16 | 355492 | LOCKNUT M12X1.75 | 4 | | SPLY |
| 17 | 355540 | HHCS M12X1.75X80MM | 2 | | SPLY |
| 18 | 355543 | HHCS M12X1.75X110MM | 2 | | SPLY |
| 19 | 000227 | FLANGE, PIPE 4" CARBON | 1 | | STK |
| 20 | 037690 | SHIPPING BOX, 4'X6' | 1 | | STK |
| 21 | 037689 | SHIPPING BOX, 4'X4' | -1 | | REM |



NOTE: ASSEMBLE AND SHIP PUMP AS RECEIVED. DO NOT ROTATE THE VOLUTE CASE

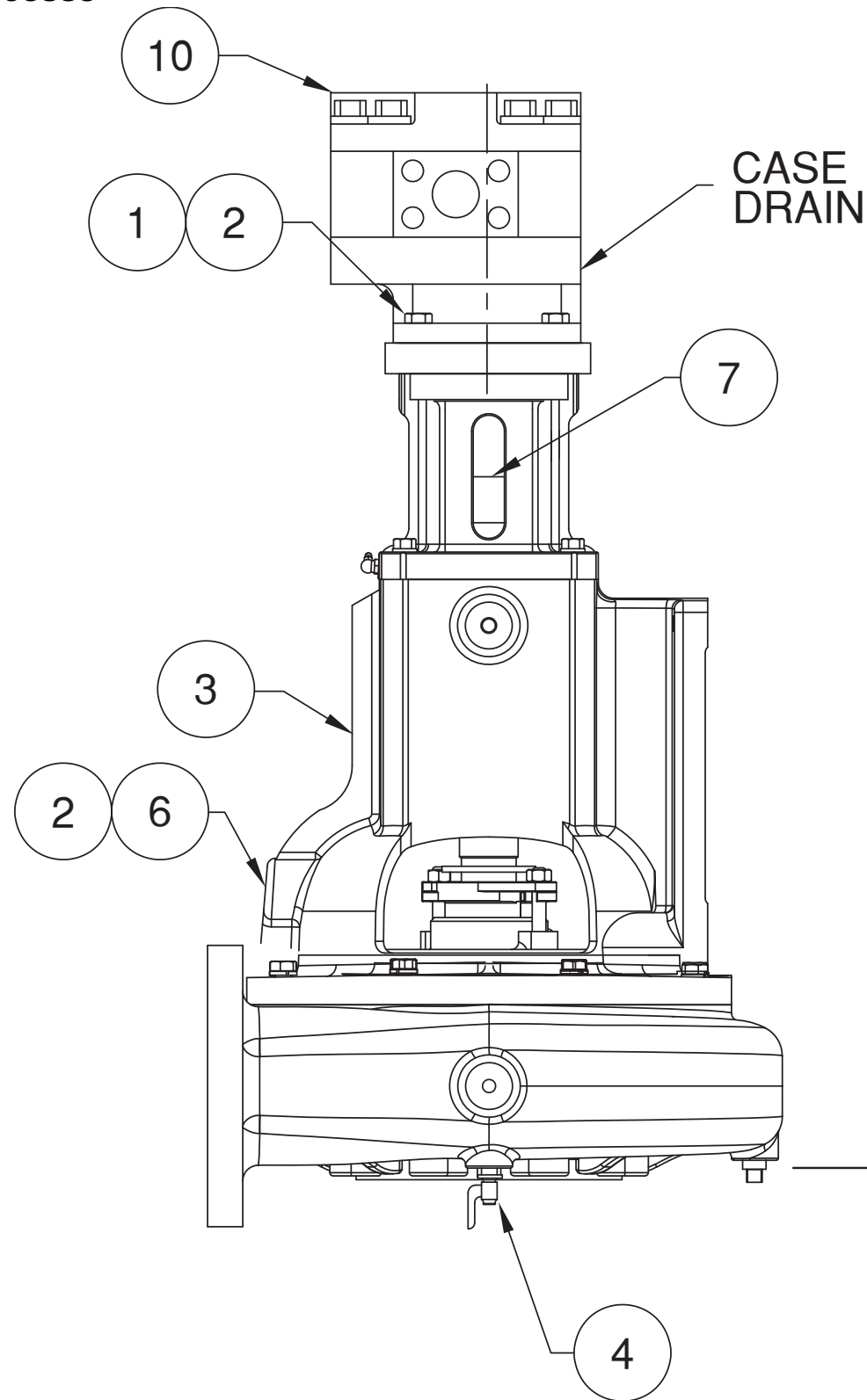
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NAME OF JOB: SPRAY SYSTEM KITS
DRAWING TITLE: PUMP INSTALL KIT, M4B (SCHEDULE)
SCALE: NTS DATE: 12-8-16 DWG. No.: 051210
DRAWN BY: DSD SHEET 1 OF 1

| REV | DESCRIPTION | DATE | APPROVED |
|-----|------------------------------------|---------|----------|
| A | ADDED 037689, 037690 | 2-13-17 | DSD |
| B | ADDED 8X 355265, REMOVED 4X 355492 | 3-20-19 | DSD |



NOTES:

1. ROTATE VOLUTE CASE AS SHOWN
2. ROTATE MOTOR AS SHOWN.

| MK. | QTY. | PART NO. | DESCRIPTION | DWG. NO. | TOTAL |
|--------|------|----------|--------------------------------------|---|-------|
| 1 | 4 | 350233 | SCREW, CAP 1/2-13 X 2.00" | | SUP |
| 2 | 7 | 350005 | WASHER, FLAT 1/2" | | SUP |
| 3 | 1 | 306200 | M4B PUMP, CARBON STEEL, 13" IMPELLER | | STK |
| 4 | 1 | 300460 | 1/2" PETCOCK | | STK |
| 5 | | | | | |
| 6 | 3 | 350227 | SCREW, CAP 1/2-13 X .75" | | SUP |
| 7 | 1 | 301927 | SPLINE SHAFT COUPLING | | STK |
| 8 | | | | | |
| 9 | | | | | |
| 047460 | 10 | 1 | 302075 | HYD.MOTOR M7600-A-767-AD-NQ17-6 (-24 PORTS) | STK |
| 047461 | 10 | 1 | 302076 | HYD.MOTOR M7600-A-767-AD-NQ20-6 (-24 PORTS) | STK |
| 047462 | 10 | 1 | 302077 | HYD.MOTOR M7600-A-767-AD-NQ22-6 (-24 PORTS) | STK |
| 047463 | 10 | 1 | 302078 | HYD.MOTOR M7600-A-767-AD-NQ25-6 (-24 PORTS) | STK |
| 047464 | 10 | 1 | 302079 | HYD.MOTOR M7600-A-767-AD-NQ27-6 (-24 PORTS) | STK |
| 047465 | 10 | 1 | 302080 | HYD.MOTOR M7600-A-767-AD-NQ30-6 (-24 PORTS) | STK |
| 051698 | 10 | 1 | 306134 | HYD.MOTOR M5100-A-767-AD-NK20-6 (-20 PORTS) | STK |

| REVISIONS | | | |
|-----------|-----------------------------|----------|----------|
| REV | DESCRIPTION | DATE | APPROVED |
| A | UPDATED BOM, REMOVED 031002 | 11-12-13 | RRH |

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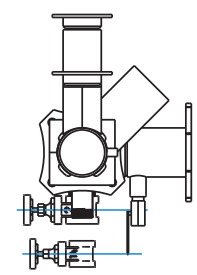
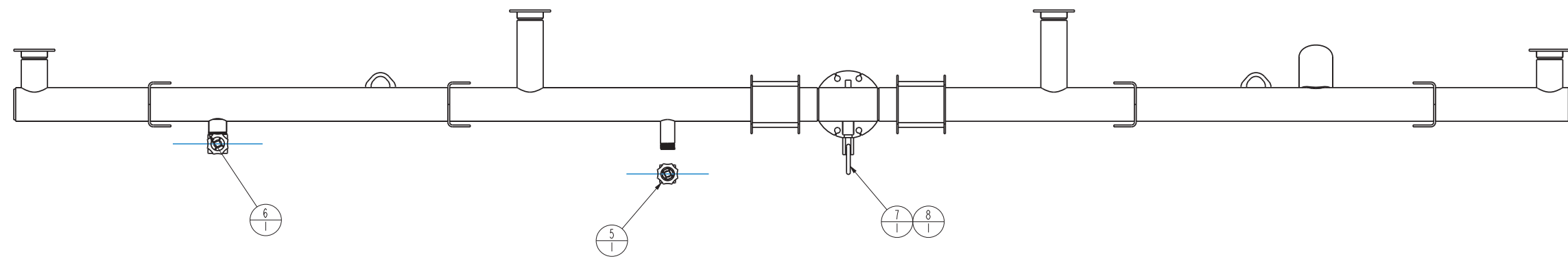
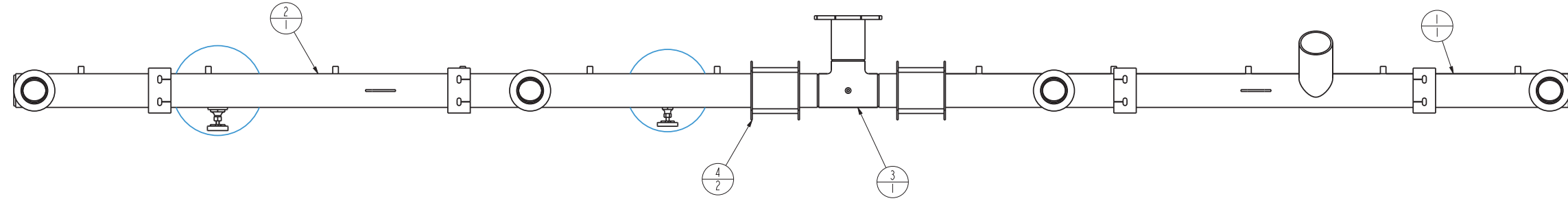
| SCALE | DESIGNED BY | PRINT RECORD | | |
|-------------|-------------|--------------|-----|---------|
| | | NO. | FOR | TO SHOP |
| DATE DRAWN | DRAWN BY | | | |
| 7-10-13 | LAP | | | |
| DATE APPRV. | APPRV. BY | | | |


NAME OF JOB PUMP STATION
DWG. DESCRIPTION M4B CARBON STEEL, 13" IMPELLER

DWG. NO.
047460

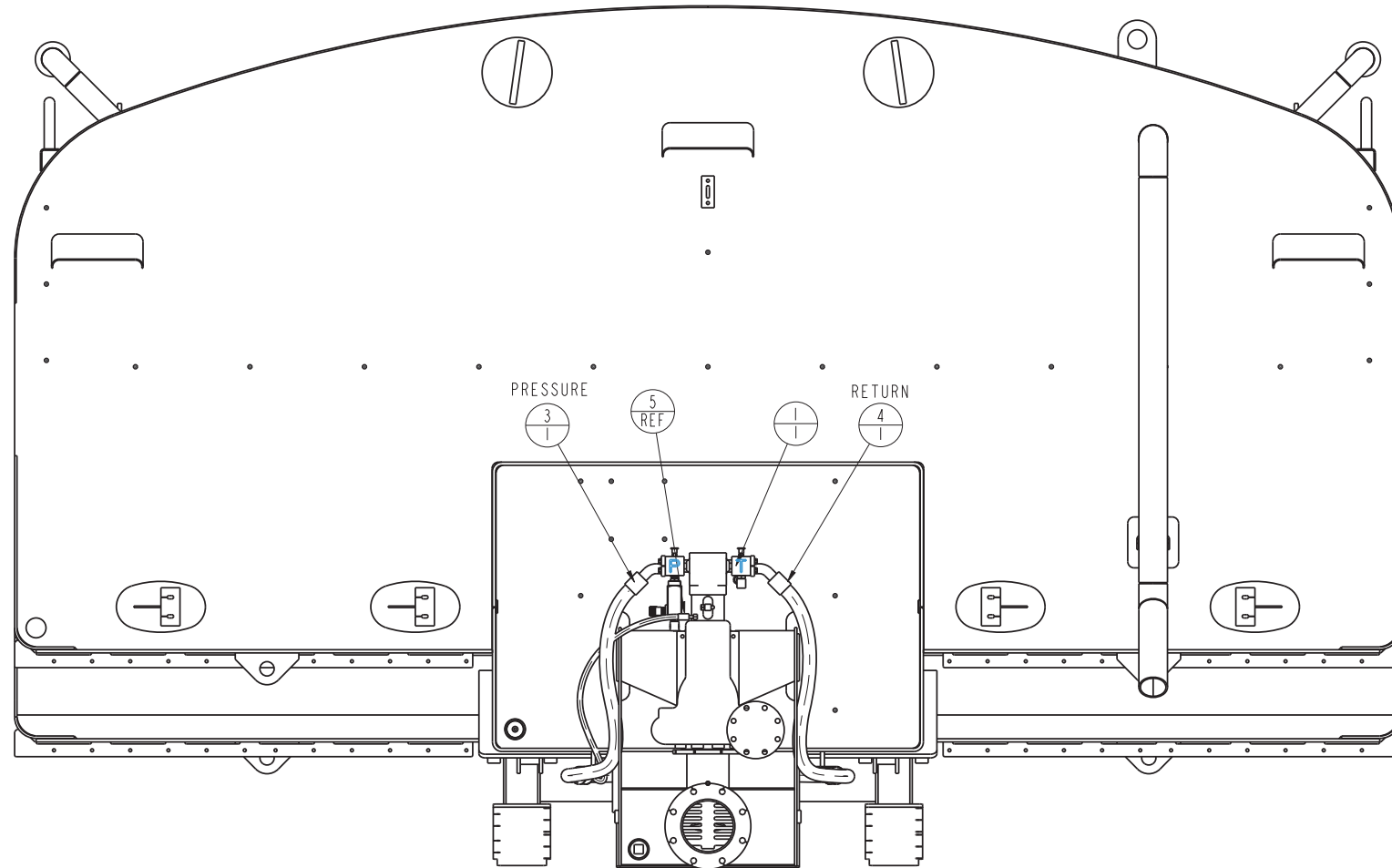
| ITEM | PART NO. | PART NAME | QTY | REF NO. | IND. | WT. |
|------|----------|-----------------------------|-----|---------|------|-----|
| 1 | 047626 | SPRAYBAR ASSEMBLY, SS RIGID | 1 | | | REF |
| 2 | 047627 | SPRAYBAR ASSEMBLY, SS RIGID | 1 | | | REF |
| 3 | 047637 | PIPE TEE, 4" STAINLESS | 1 | | | REF |
| 4 | 300024 | DRESSER COUPLING, 4.0 | 2 | | | STK |
| 5 | 300106 | VALVE, GATE 1.50 | 1 | | | STK |
| 6 | 300107 | VALVE, GATE 2" | 1 | | | STK |
| 7 | 300627 | 3/4 INCH BALL VALVE | 1 | | | STK |
| 8 | 351319 | CLOSE NIPPLE, 3/4" SCH40 | 1 | | | STK |

928



| | | |
|---|---|-----------------|
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| | <p>TOLERANCE: UNLESS OTHERWISE SPECIFIED</p> | |
| 3 PLACES ± 0.010 | 2 PLACES ± 0.030 | ANGULAR ± 1° |
| <p>DWG. TITLE: MTT20 SPRAYBAR INSTALL, RIGID S.S.</p> | | |
| SCALE: NTS | DATE: Aug-29-13 | DWG. NO. 047625 |
| DRAWN BY: RRH | SHEET 1 OF 1 | |

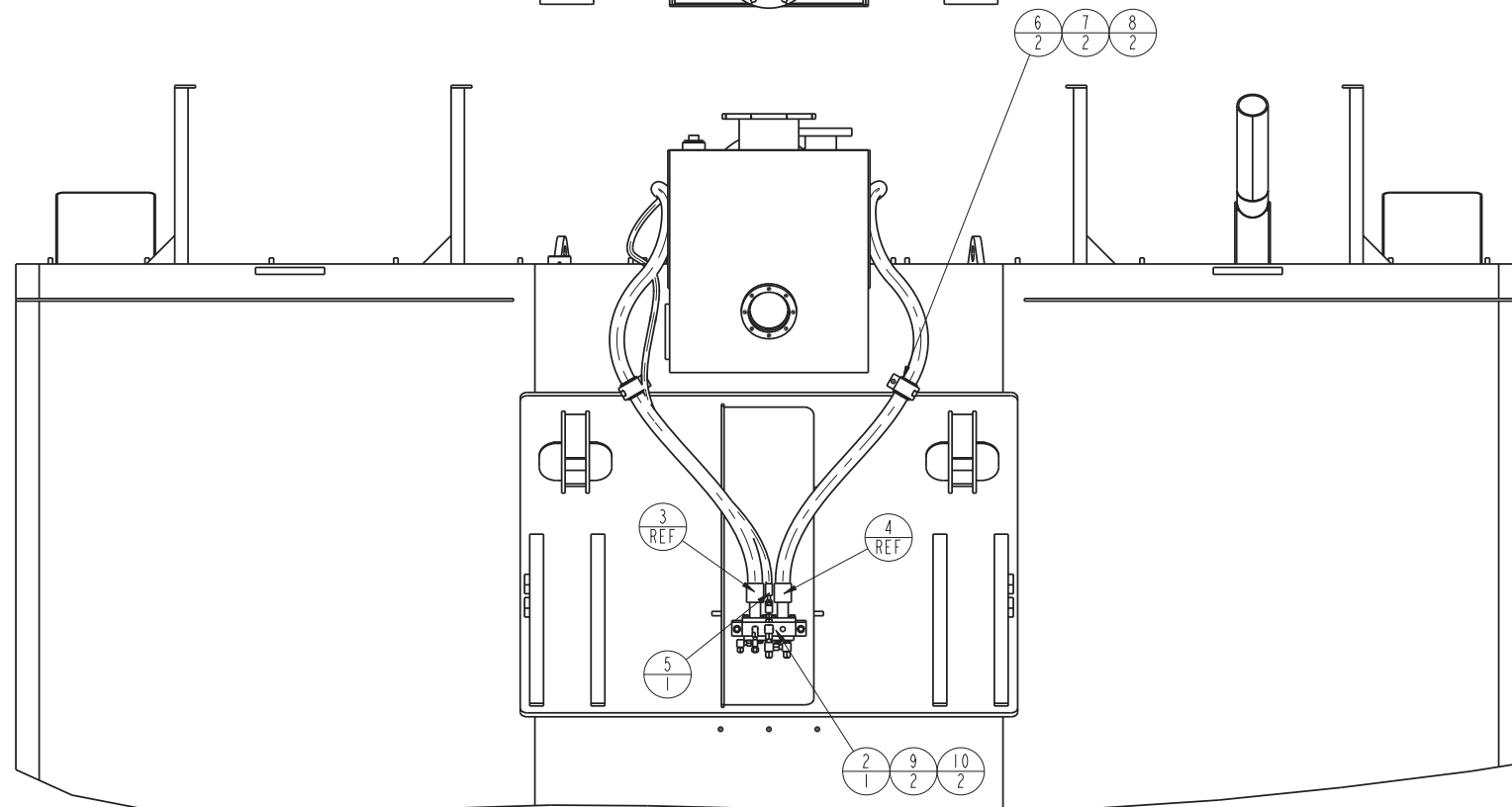
| ITEM | PART NO. | PART NAME | QTY | REF NO. | IND. | WT. |
|------|-------------------|---------------------------|-----|---------|------|------|
| 1 | 046724 | W OVER ASM, 24 | 1 | | | STK |
| 2 | 059133 | ADAPTER ASM, MID MANIFOLD | 1 | | | REF |
| 3 | 059136-01 | HOSE ASM | 1 | | | SHTI |
| 4 | 059136-02 | HOSE ASM | 1 | | | SHTI |
| 5 | 059136-03 | HOSE ASM | 1 | | | SHTI |
| 6 | 302929 | CLIP, BOTTOM | 2 | | | STK |
| 7 | 302930 | CLIP, TOP | 2 | | | STK |
| 8 | 302931 | GROMMET | 2 | | | STK |
| 9 | 355265 | WASHER, M12 | 2 | | | SPLY |
| 10 | 355519 | HHCS, M12X1.75 X30MM | 2 | | | SPLY |




| PART NO. | PART NAME | QTY | REF NO. | WEIGHT |
|-----------|------------------------------|-----|---------|--------|
| 059136-01 | HOSE ASM | 1 | | |
| 354843 | HOSE END -24, STR SAE 61 -24 | 1 | | STK |
| 354860 | HOSE END -24, 45* SAE 61 -24 | 1 | | STK |
| H59136-01 | HOSE, 100R12-24 x 96'' * | 1 | 354785 | |
| 059136-02 | HOSE ASM | 1 | | |
| 354843 | HOSE END -24, STR SAE 61 -24 | 1 | | STK |
| 354860 | HOSE END -24, 45* SAE 61 -24 | 1 | | STK |
| H59136-02 | HOSE, 100R12-24 x 96'' * | 1 | 354785 | |
| 059136-03 | HOSE ASM | 1 | | |
| 356018 | -6 HOSE END PERM, 0° JIC -6 | 2 | | STK |
| H59136-03 | HOSE, 100R12-6 x 108'' * | 1 | 354780 | |

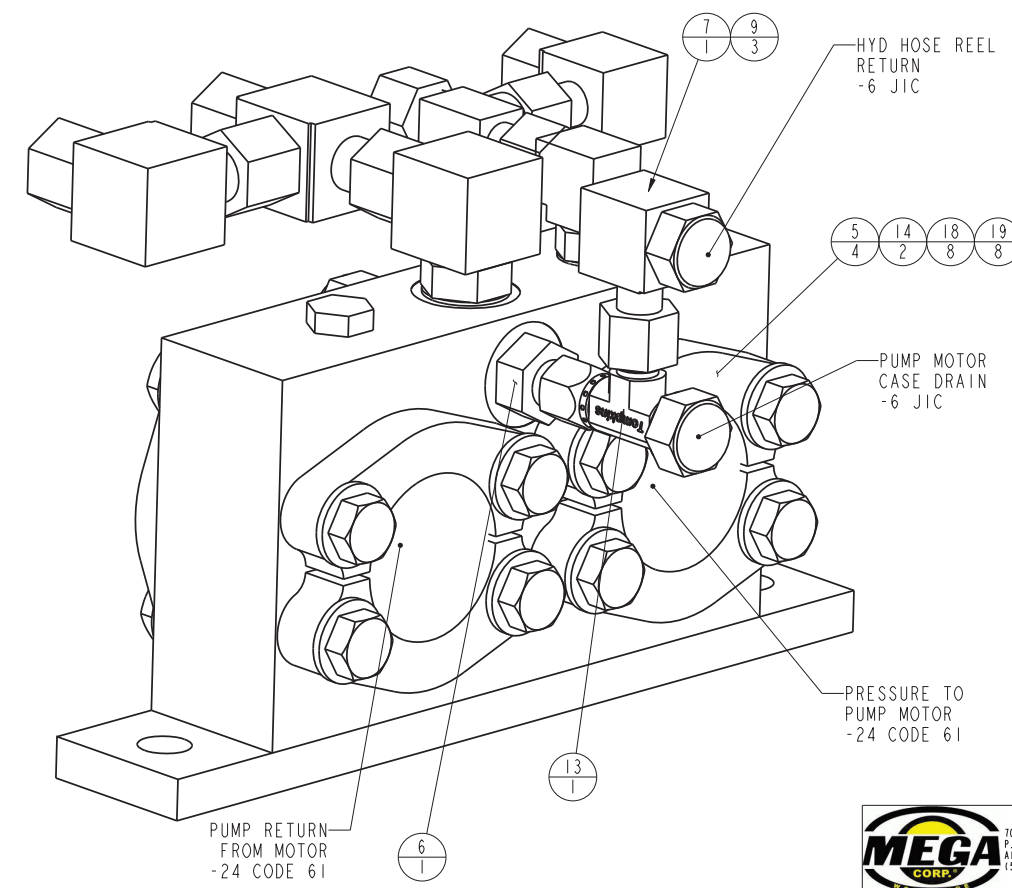
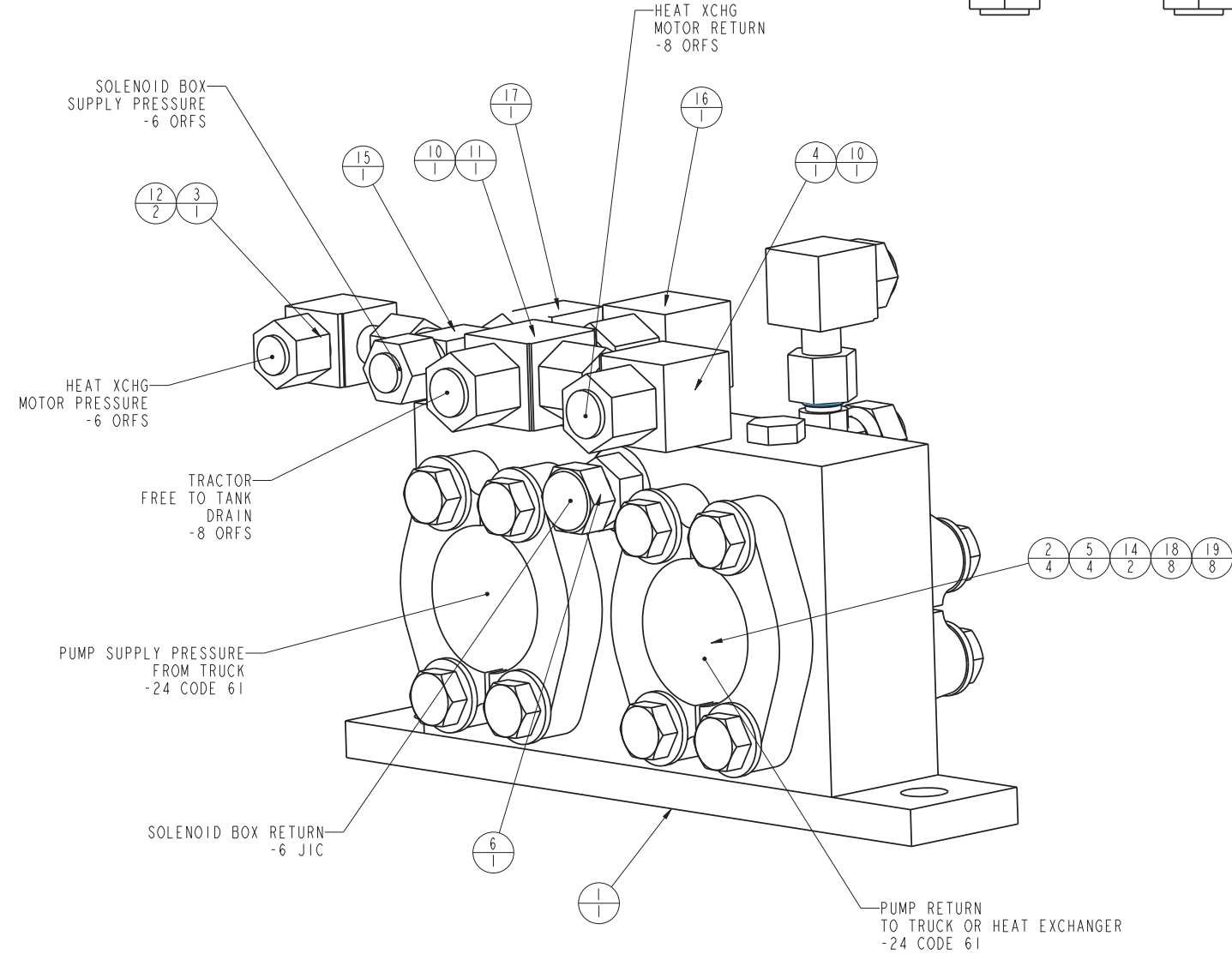
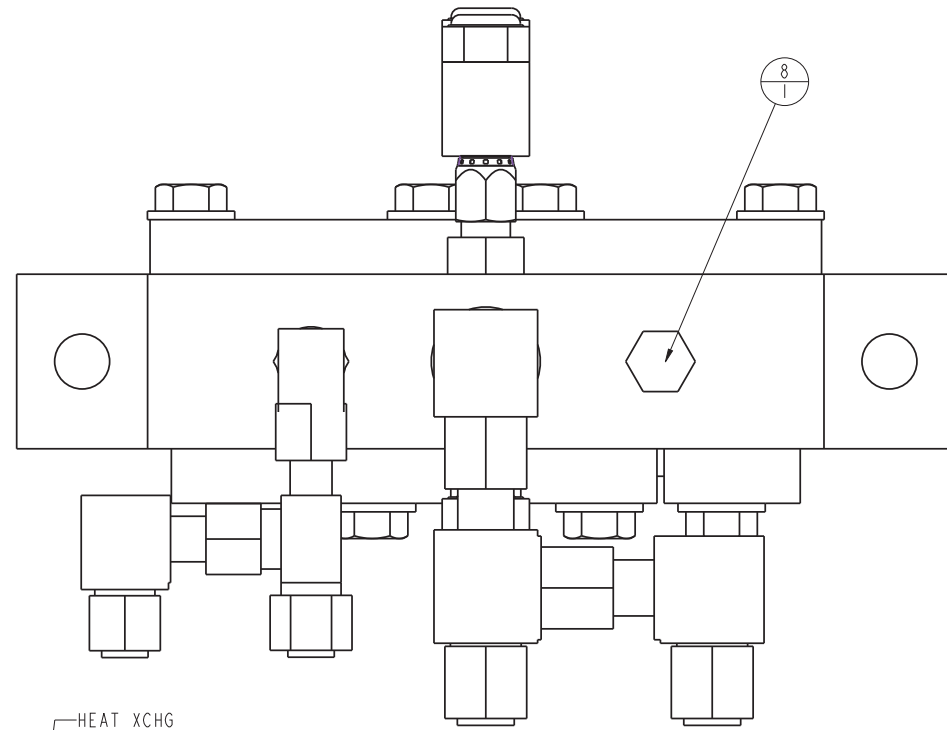
NOTE: HOSE LENGTHS MARKED WITH * INDICATE ACTUAL LENGTHS

929



| | | |
|---|--|-----------------|
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| DWG. TITLE: HYD INSTALL | | |
| SCALE: NTS | DATE: Jan-11-23 | DWG. NO. 059136 |
| DRAWN BY: TCS | SHEET 1 OF 1 | |

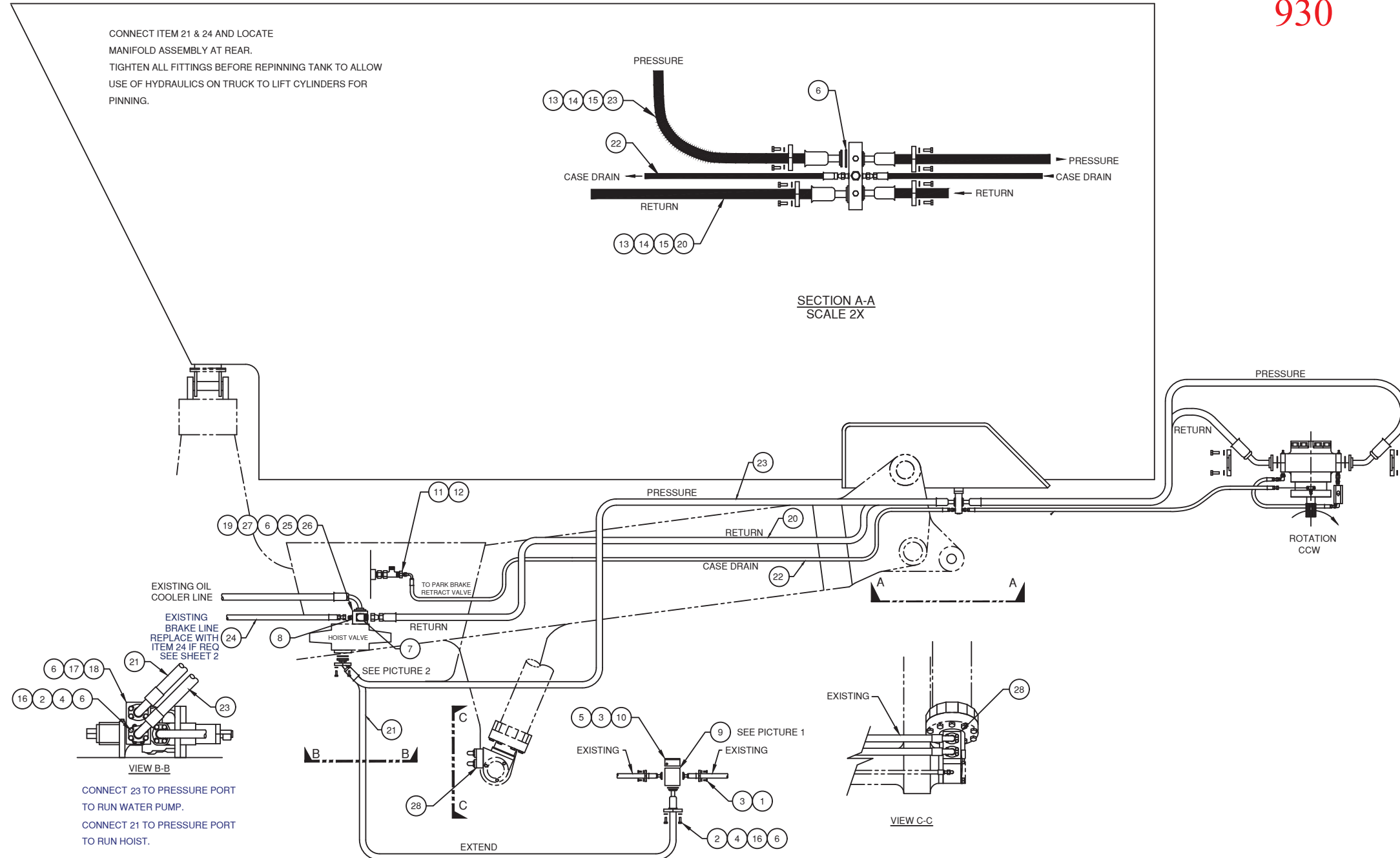
| ITEM | PART NO. | PART NAME | QTY | REF NO. | IND. | WT. |
|------|----------|-----------------------------------|-----|---------|------|------|
| 1 | 059070 | MANIFOLD, BLOCK W/ MOUNT METRIC | 1 | | | STK |
| 2 | 304544 | COVER | 4 | | | STK |
| 3 | 306262 | ELBOW, -6 ORFS -6 ORFS SWIVEL | 1 | | | STK |
| 4 | 307091 | ELBOW, -8 ORFS FEMALE -8 ORFS | 1 | | | STK |
| 5 | 352534 | FLANGE, HALF -24 | 8 | | | STK |
| 6 | 352611 | ADPT, -8 ORB -6 JIC | 2 | | | STK |
| 7 | 353002 | ELBOW, -6 JIC FML SWVL -6 JIC | 1 | | | STK |
| 8 | 353477 | PLUG, ORB-6 | 1 | | | STK |
| 9 | 353489 | CAP NUT JIC-6 | 3 | | | SLPY |
| 10 | 353728 | CAP, -8 ORFS | 2 | | | SPLY |
| 11 | 353999 | TEE, ORFS SWIVEL -8 MALE -8 -8 | 1 | | | STK |
| 12 | 354043 | CAP, -6 ORFS | 2 | | | SPLY |
| 13 | 354149 | RUN TEE, -6 JIC | 1 | | | STK |
| 14 | 354816 | ORING, NITRILE 90 -24 | 4 | | | SPLY |
| 15 | 354954 | TEE RUN, -6ORS-6ORS-6ORS FML SWVL | 1 | | | STK |
| 16 | 355136 | ELBOW, 90* ORFS -8 STOR -8 | 1 | | | STK |
| 17 | 355137 | ELBOW, 90* -6 STOR -6 ORFS | 1 | | | STK |
| 18 | 355265 | WASHER, M12 | 16 | | | SPLY |
| 19 | 355522 | HHCS, M12X1.75 X45MM | 16 | | | SPLY |



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|-----------|---------------------------------------|-----------|-----|---------------------------------------|------------------|-----------------|
| REV | DESCRIPTION | DATE | ECR | 3 PLACES ± 0.010 | 2 PLACES ± 0.030 | ANGULAR ± 1° |
| A | 16X 355519 -> 355522 | Mar-07-23 | DSD | DWG. TITLE: ADAPTER ASM, MID MANIFOLD | | |
| B | ADDED 2X 304544, 2X 353489, 1X 354043 | Jun-12-23 | DSD | SCALE: NTS | DATE: Jan-10-23 | DWG. NO. 059133 |
| | | | | DRAWN BY: TCS | SHEET 1 OF 1 | |



930

BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|-----|-----------|-------------------------------|-----|---------|--------|
| 1 | 355476 | HHCS M10X1.5 X 30MM | 6 | | SUP |
| 2 | 355519 | HHCS M12X1.75 X30MM | 12 | | SUP |
| 3 | 355264 | WASHER, M10 | 10 | | SUP |
| 4 | 355265 | WASHER, M12 | 12 | | SUP |
| 5 | 042079 | MANIFOLD BRACKET | 1 | | REF |
| 6 | 354816 | O-RING -24 SF | 9 | | SUP |
| 7 | 306422 | ADAPTER -24 ORB-> -24 ORS 90° | 1 | | STK |
| 8 | 355584 | ADAPTER -8 ORB -> -12 ORS 0° | 1 | | STK |
| 9 | 049020 | HYDRAULIC MANIFOLD | 1 | | STK |
| 10 | 355475 | HHCS M10X1.5 X25MM | 4 | | SUP |
| 11 | 353956 | ADAPTER, -12 ORS -> -6 ORS | 1 | | STK |
| 12 | 306001 | TEE, ORS -12 M/M/F | 1 | | STK |
| 13 | 302929 | HOSE CLIP, TAB -24 | 7 | | STK |
| 14 | 302930 | HOSE CLIP, SLOT -24 | 7 | | STK |
| 15 | 302931 | GROMMET -24 | 7 | | STK |
| 16 | 352534 | SPLIT FLANGE HALF, -24 | 6 | | STK |
| 17 | 049012 | DOUBLE SIDED MANIFOLD | 1 | | REF |
| 18 | 353917 | SHCS 1/2-13 X 1.25" | 4 | | STK |
| 19 | 354817 | O-RING -32 SF | 1 | | SUP |
| 20 | 058563-01 | HOSE ASM | 1 | | DETAIL |
| 21 | 058563-02 | HOSE ASM | 1 | | DETAIL |
| 22 | 058563-03 | HOSE ASM | 1 | | DETAIL |
| 23 | 058563-04 | HOSE ASM | 1 | | DETAIL |
| 24 | 058563-05 | HOSE ASM | 1 | | DETAIL |
| 25 | 042273 | MANIFOLD | 1 | | STK |
| 26 | 350242 | HHCS 1/2-13 UNC X 4.50" | 4 | | SUP |
| 27 | 350005 | WASHER, 1/2" | 8 | | SUP |
| 28 | 058366 | LIFT CYL. PRESS. RELIEF. ASM | 2 | | STK |

HOSE TABLE

| Part No. | PART NAME | QTY | REF No. | WT. |
|-----------|-------------------------------|-----|---------|-----|
| 058563-01 | HOSE ASM | 1 | | |
| 354843 | HOSE END, -24 SF 0° | 1 | | STK |
| 354906 | HOSE END, -24 ORS 0° | 1 | | STK |
| H58563-01 | HOSE, SAE 100R12 -24 X 180" * | 1 | 354785 | STK |
| 058563-02 | HOSE ASM | 1 | | |
| 354860 | HOSE END, -24 SF 45° | 1 | | STK |
| 354843 | HOSE END, -24 SF 0° | 1 | | STK |
| H58563-02 | HOSE, SAE 100R12 -24 X 57" * | 1 | 354785 | STK |
| 058563-03 | HOSE ASM | 1 | | |
| 356031 | HOSE END, -6 ORS 90° | 1 | | STK |
| 356018 | HOSE END, -6 JIC 0° | 1 | | STK |
| H58563-03 | HOSE, SAE 100R12 -6 X 180" * | 1 | 354780 | STK |
| 058563-04 | HOSE ASM | 1 | | |
| 354860 | HOSE END, -24 SF 45° | 1 | | STK |
| 354843 | HOSE END, -24 SF 0° | 1 | | STK |
| H58563-04 | HOSE, SAE 100R12 -24 X 204" * | 1 | 354785 | STK |
| 058563-05 | HOSE ASM | 1 | | |
| 356033 | HOSE END, -12 ORS 90° | 1 | | STK |
| 307523 | HOSE END, -16 ORS -12 HOSE 0° | 1 | | STK |
| H58563-05 | HOSE, SAE 100R12 -12 X 98" * | 1 | 354782 | STK |

NOTE:
HOSES WITH (*) INDICATE ACTUAL LENGTHS
MEASURE ALL OTHERS

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3 PLACES ± 0.010 2 PLACES ± 0.03 ANGULAR ± 1°

NAME OF JOB: CAT 777DII/F/G MTT20 DISCS 2.0

DRAWING TITLE: HYDRAULIC INSTALL, KIT, HOIST COMPATIBLE

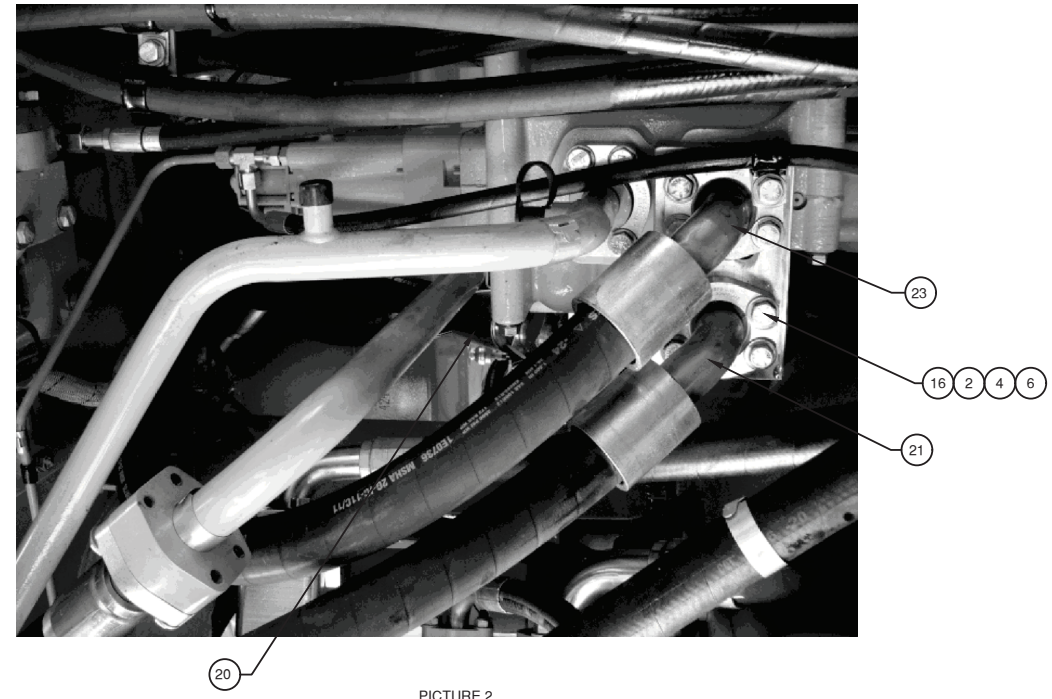
SCALE: NTD DATE: 9-7-22 DWG. No.: 058563

DRAWN BY: DSD SHEET 1 OF 2

| REV | DESCRIPTION | DATE | APPROVED |
|-----|----------------|-----------|----------|
| A | 046120->058366 | 20-SEP-22 | TCS |

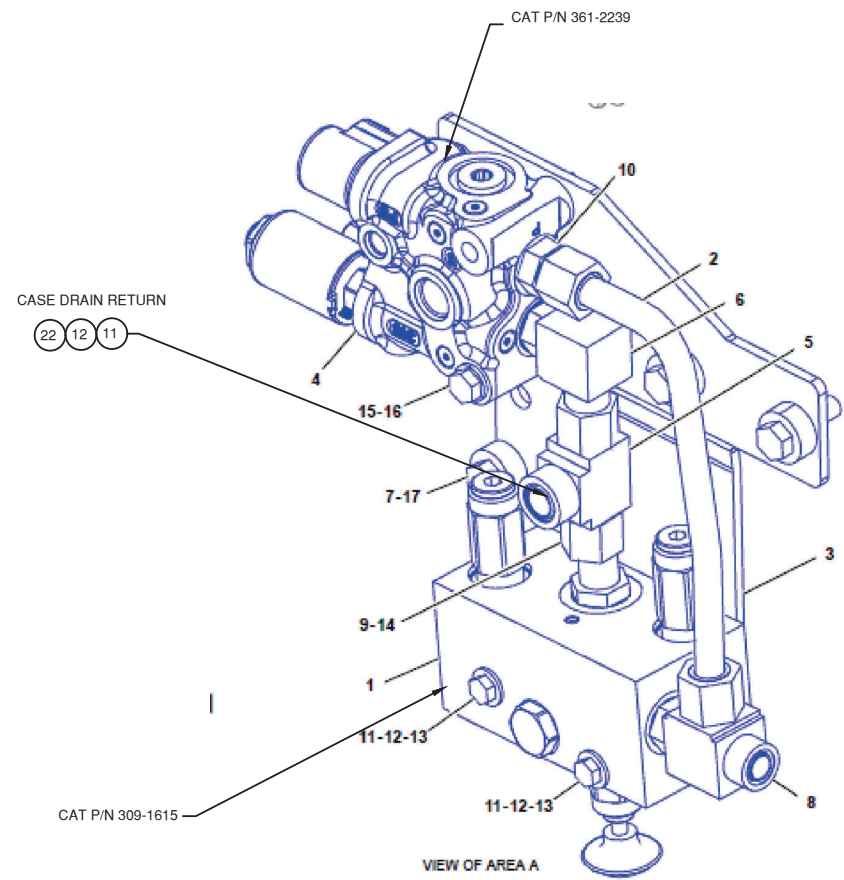


PICTURE 1

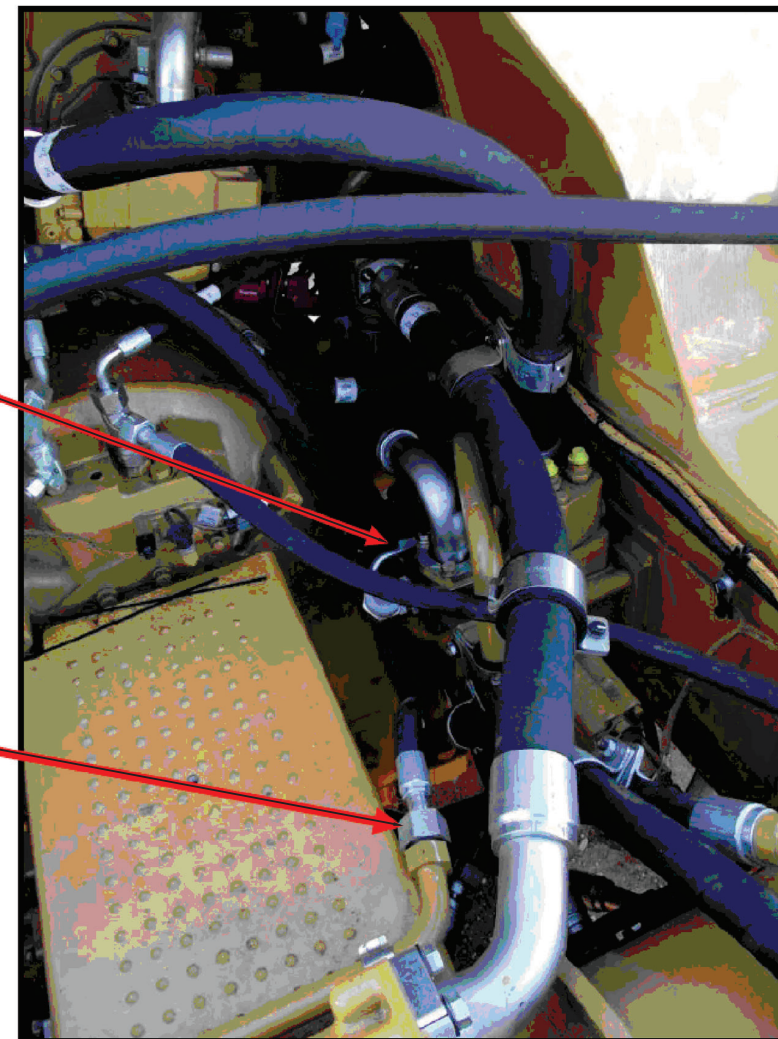



20

PICTURE 2



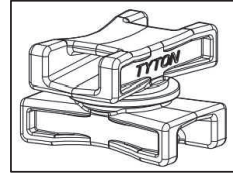
REPLACE EXISTING HOSE IF REQUIRED 24



| | | | | | |
|---|--|-----------------|--|------------------|--|
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| TOLERANCE: UNLESS OTHERWISE SPECIFIED | | | | | |
| 3 PLACES ± 0.010 | | 2 PLACES ± 0.03 | | ANGULAR ± 1° | |
| NAME OF JOB: CAT 777DII/F/G MTT20 DISCS 2.0 | | | | | |
| DRAWING TITLE: HYDRAULIC INSTALL, KIT, HOIST COMPATIBLE | | | | | |
| SCALE: NTD | | DATE: 9-7-22 | | DWG. No.: 058563 | |
| DRAWN BY: DSD | | SHEET 2 OF 2 | | | |

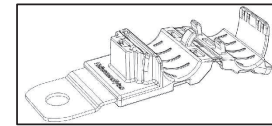
HellermannTyton

SWIVEL SADDLE



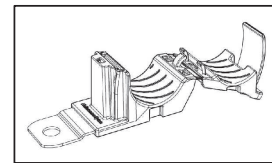
SWIVEL SADDLE
 .25" - 309502
 .625" - 309503
 TYPICAL USES:
 • SECURING CROSSING LINES AND HOISING

1/2" - 3/4" P-CLAMP - B



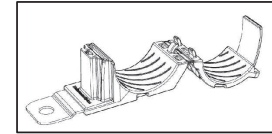
1/2" - 3/4" P-CLAMP - B
 309401
 TYPICAL USES:
 • SMALL ELECTRICAL AND HYDRAULIC BUNDLES
 • SPRAY BAR
 • REAR HEAD ELECTRICAL
 • MONITOR POWER
 • LIGHTING

3/4" - 1-3/8" P-CLAMP - C



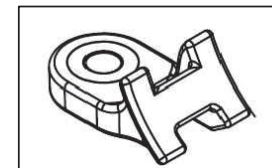
3/4" - 1-3/8" P-CLAMP - C
 309403
 TYPICAL USES:
 • MEDIUM ELECTRICAL AND HYDRAULIC BUNDLES
 • SPRAY HEAD LINE ROUTING
 • SOLENOID ELECTRICAL BOX ROUTING

1-3/8" - 2" P-CLAMP - D



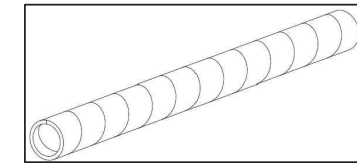
1-3/8" - 2" P-CLAMP - B
 309405
 TYPICAL USES:
 • LARGE ELECTRICAL AND HYDRAULIC BUNDLES
 • PUMP HYDRAULICS
 • MONITOR LINE ROUTING

HEAVY DUTY CABLE TIE MOUNT



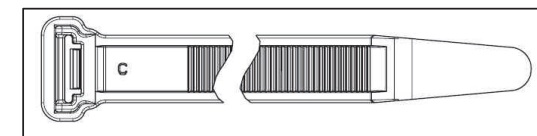
HEAVY DUTY CABLE MOUNT
 309407
 TYPICAL USES:
 • TO BE USED FOR APPLICATIONS TOO SMALL OR TOO LARGE FOR CLAMPS B/C/D

SPIRAL WRAP



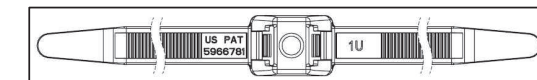
SPIRAL WRAP 3/4", 1", 1-1/2"
 3/4" - 309508
 1" - 309509
 1-1/2" - 309510
 TYPICAL USES:
 • TO PREVENT CHAFING OF HOSES AGAINST OBJECTS.

WIDE CABLE TIE 15"

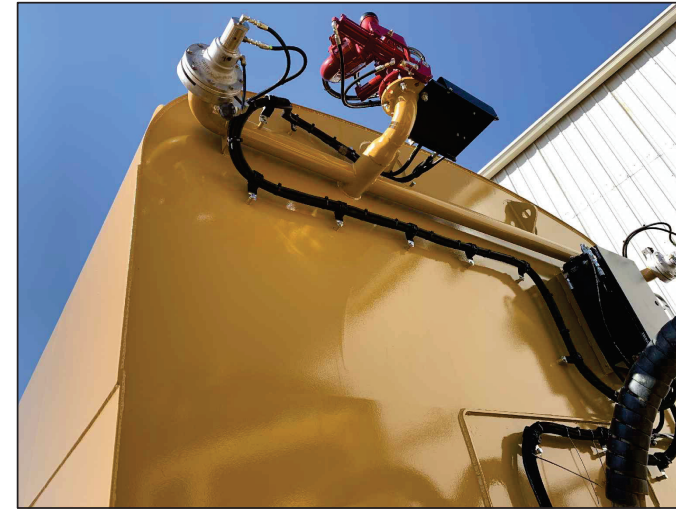
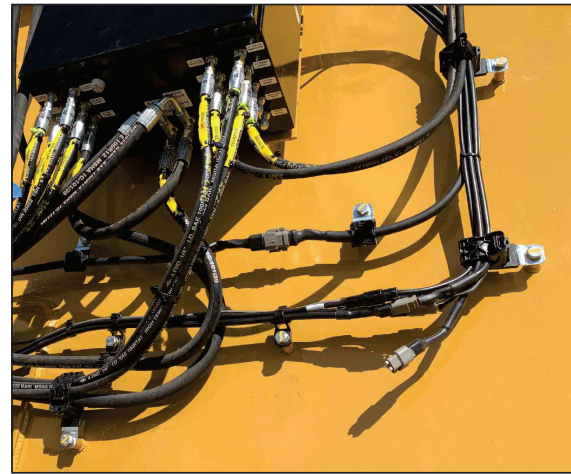


WIDE CABLE TIE 15"
 309504
 TYPICAL USES:
 • TO BE USED IN CONJUNCTION WITH HEAVY DUTY CABLE TIE MOUNT

DUAL CLAMP TIE



DUAL CLAMP TIE
 309192
 TYPICAL USES:
 • SECURING HYDRAULIC HOISING TO PUMP PRESSURE RETURN LINES THROUGH TUNNEL.



BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|-----|----------|-------------------------------------|-----|---------|------|
| 1 | 309401 | RATCHET P-CLAMP 1/2 TO 3/4, SHORT | 30 | | SPLY |
| 2 | 309403 | RATCHET P-CLAMP 3/4 TO 1 3/8, SHORT | 20 | | SPLY |
| 3 | 309405 | RATCHET P-CLAMP 1 3/8 TO 2, SHORT | 35 | | SPLY |
| 4 | 309407 | HEAVY DUTY MOUNT | 20 | | SPLY |
| 5 | 309504 | .5" WIDE CABLE TIE 15" X 50PCS | 1 | | SPLY |
| 6 | 305250 | CABLE TIE, 15.00 X 100PCS | 1 | | SPLY |
| 7 | 309192 | DUAL CLAMP TIE | 50 | | SPLY |
| 8 | 309502 | DUAL SWIVEL SPACER .25" | 5 | | SPLY |
| 9 | 309503 | DUAL SWIVEL SPACER .625" | 5 | | SPLY |
| 10 | 309505 | HOSE PROTECTOR 6" | 2 | | SPLY |
| 11 | 309508 | SPIRAL WRAP 3/4" | 5 | | SPLY |
| 12 | 309509 | SPIRAL WRAP 1" | 10' | | SPLY |
| 13 | 309510 | SPIRAL WRAP 1 1/2" | 10' | | SPLY |
| 14 | 355475 | HHCS, M10 X 1.5 X 25MM | 100 | | SPLY |
| 15 | 355264 | WASHER, M10 | 100 | | SPLY |
| 16 | | | | | |

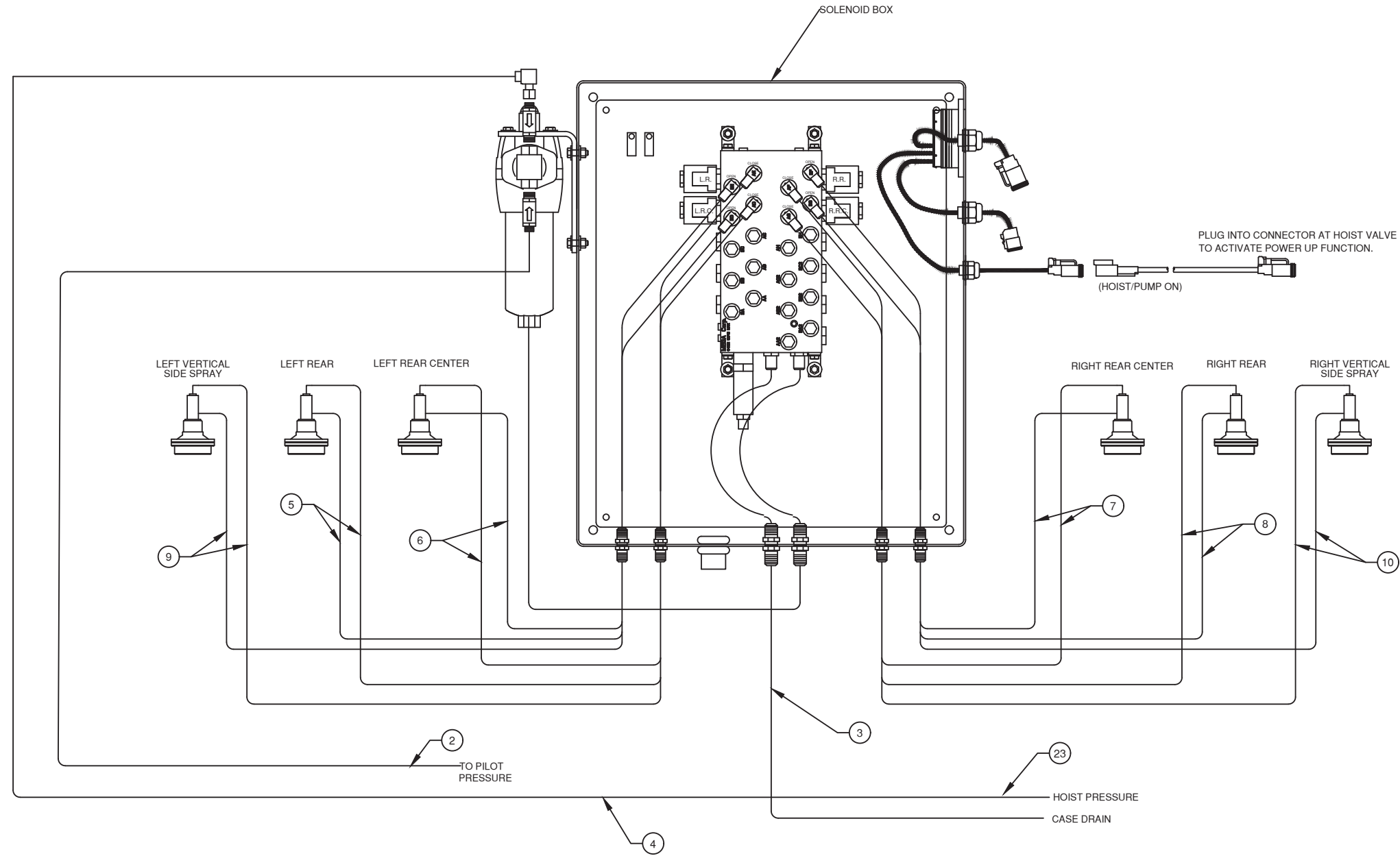
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 3 PLACES ± 0.010 2 PLACES ± 0.03 ANGULAR ± 1°

NAME OF JOB: ELECTRIC/HYDRAULIC ROUTING
 DRAWING TITLE: UNIVERSAL HARDWARE INSTALL

| REVISIONS | | | | SCALE: NTD | DATE: 11-5-19 | DWG. No.: 054782 |
|-----------|-------------|-----------|----------|---------------|---------------|------------------|
| REV | DESCRIPTION | DATE | APPROVED | SCALE: | DATE: | DWG. No.: |
| A | RMV 305238 | 5-JULY-23 | TCS | DRAWN BY: KDS | SHEET 1 OF 1 | |



| BILL OF MATERIAL | | | | | |
|------------------|-----------|-----------------------|-----|---------|------|
| No. | Part No. | PART NAME | QTY | REF No. | WT. |
| 1 | | | | | |
| 2 | 051121-02 | HOSE ASM | 1 | | SHT2 |
| 3 | 051121-03 | HOSE ASM | 1 | | SHT2 |
| 4 | 051121-04 | HOSE ASM | 1 | | SHT2 |
| 5 | 051121-05 | HOSE ASM | 2 | | SHT2 |
| 6 | 051121-06 | HOSE ASM | 2 | | SHT2 |
| 7 | 051121-07 | HOSE ASM | 2 | | SHT2 |
| 8 | 051121-08 | HOSE ASM | 2 | | SHT2 |
| 9 | 051121-09 | HOSE ASM | 2 | | SHT2 |
| 10 | 051121-10 | HOSE ASM | 2 | | SHT2 |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | 049008 | STANDOFF M10X1.5X25MM | 20 | 024634 | STK |
| 17 | 309407 | HEAVY DUTY MOUNT | 20 | | SPLY |
| 18 | 355264 | WASHER, M10 | 20 | | SPLY |
| 19 | 355475 | HHCS M10X1.5X25MM | 20 | | SPLY |
| 20 | 305250 | CABLE TIES, 15" X 100 | 1 | | SPLY |
| 21 | | | | | |
| 22 | 354954 | TEE, RUN -6 ORS | 3 | | STK |
| 23 | 355137 | ADPT -6 ORB -6ORS 90° | 2 | | STK |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| 31 | | | | | |

915

| REVISIONS | | | |
|-----------|---|-----------|----------|
| REV | DESCRIPTION | DATE | APPROVED |
| A | 350251-> 350250 | 2-13-16 | DSD |
| B | REMOVED -01, -02 WAS 263", -04 WAS 270 ADD 356031 | 10/31/18 | 18091 |
| C | 305238-> 309407 | 18-SEP-23 | TCS |

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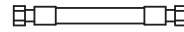
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TOLEANCE: UNLESS OTHERWISE SPECIFIED
3 PLACES ± 0.010 2 PLACES ± 0.03 ANGULAR ± 1°

NAME OF JOB: SPRAY SYSTEM KIT
DRAWING TITLE: DUAL SOURCE HOSE KIT, 6 SHV
SCALE: NTS DATE: 11-30-16 DWG. No.: 051121
DRAWN BY: DSD SHEET 1 OF 2

NOTE: SHIP ALL HOSES BULK

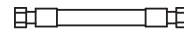
051121-06



NOTE: HOSE LABEL TO READ "051121-06"

| ITEM | Part No. | PART NAME | QTY | REF No. | WT. |
|------|-----------|--|-----|---------|-----|
| 1 | 355604 | HOSE END, -4 JIC 0° -4 HOSE, FIELD INSTALL | 2 | | STK |
| 2 | H51121-06 | HOSE, SAE100R1AT -4 X 509" | 1 | 306635 | STK |

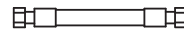
051121-02



NOTE: HOSE LABEL TO READ "051121-02"

| ITEM | Part No. | PART NAME | QTY | REF No. | WT. |
|------|-----------|-----------------------------|-----|---------|-----|
| 1 | 356024 | HOSE END, -6 ORF 0° -6 HOSE | 2 | | STK |
| 2 | H51121-02 | HOSE, SAE100R12 -6 X 303" | 1 | 354780 | STK |

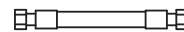
051121-07



NOTE: HOSE LABEL TO READ "051121-07"

| ITEM | Part No. | PART NAME | QTY | REF No. | WT. |
|------|-----------|--|-----|---------|-----|
| 1 | 355604 | HOSE END, -4 JIC 0° -4 HOSE, FIELD INSTALL | 2 | | STK |
| 2 | H51121-07 | HOSE, SAE100R1AT -4 X 475" | 1 | 306635 | STK |

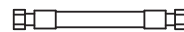
051121-03



NOTE: HOSE LABEL TO READ "051121-03"

| ITEM | Part No. | PART NAME | QTY | REF No. | WT. |
|------|-----------|-----------------------------|-----|---------|-----|
| 1 | 356018 | HOSE END, -6 JIC 0° -6 HOSE | 1 | | STK |
| 2 | 356024 | HOSE END, -6 ORF 0° -6 HOSE | 1 | | STK |
| 3 | H51121-03 | HOSE, SAE100R12 -6 X 268" | 1 | 354780 | STK |

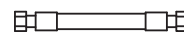
051121-08



NOTE: HOSE LABEL TO READ "051121-08"

| ITEM | Part No. | PART NAME | QTY | REF No. | WT. |
|------|-----------|--|-----|---------|-----|
| 1 | 355604 | HOSE END, -4 JIC 0° -4 HOSE, FIELD INSTALL | 2 | | STK |
| 2 | H51121-08 | HOSE, SAE100R1AT -4 X 574" | 1 | 306635 | STK |

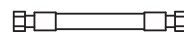
051121-04



NOTE: HOSE LABEL TO READ "051121-04"

| ITEM | Part No. | PART NAME | QTY | REF No. | WT. |
|------|-----------|------------------------------|-----|---------|-----|
| 1 | 356024 | HOSE END, -6 ORF 0° -6 HOSE | 1 | | STK |
| 2 | 356031 | HOSE END, -6 ORF 90° -6 HOSE | 1 | | STK |
| 3 | H51121-04 | HOSE, SAE100R12 -6 X 310" | 1 | 354780 | STK |

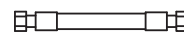
051121-09



NOTE: HOSE LABEL TO READ "051121-09"

| ITEM | Part No. | PART NAME | QTY | REF No. | WT. |
|------|-----------|--|-----|---------|-----|
| 1 | 355604 | HOSE END, -4 JIC 0° -4 HOSE, FIELD INSTALL | 2 | | STK |
| 2 | H51121-09 | HOSE, SAE100R1AT -4 X 300" | 1 | 306635 | STK |

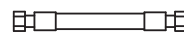
051121-05



NOTE: HOSE LABEL TO READ "051121-05"

| ITEM | Part No. | PART NAME | QTY | REF No. | WT. |
|------|-----------|--|-----|---------|-----|
| 1 | 355604 | HOSE END, -4 JIC 0° -4 HOSE, FIELD INSTALL | 2 | | STK |
| 2 | H51121-05 | HOSE, SAE100R1AT -4 X 575" | 1 | 306635 | STK |

051121-10



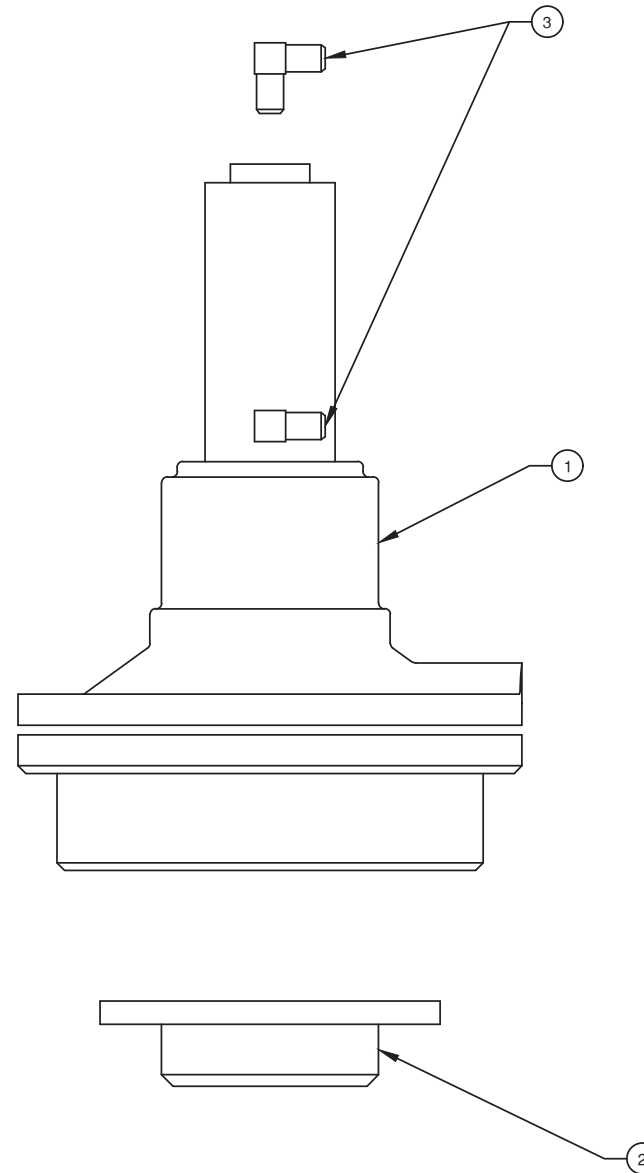
NOTE: HOSE LABEL TO READ "051121-10"

| ITEM | Part No. | PART NAME | QTY | REF No. | WT. |
|------|-----------|--|-----|---------|-----|
| 1 | 355604 | HOSE END, -4 JIC 0° -4 HOSE, FIELD INSTALL | 2 | | STK |
| 2 | H51121-10 | HOSE, SAE100R1AT -4 X 300" | 1 | 306635 | STK |


NOTE: SEND BULK HOSE IN LARGEST AVAILABLE CONTINUOUS ROLLS.

| | | |
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| | TOLERANCE: UNLESS OTHERWISE SPECIFIED 3 PLACES ± 0.010 2 PLACES ± 0.03 ANGULAR ± 1° | |
| NAME OF JOB: SPRAY SYSTEM KIT | | |
| DRAWING TITLE: DUAL SOURCE HOSE KIT, 6 SHV | | |
| SCALE: NTS | DATE: 11-30-16 | DWG. No.: 051121 |
| DRAWN BY: DSD | SHEET 2 OF 2 | |

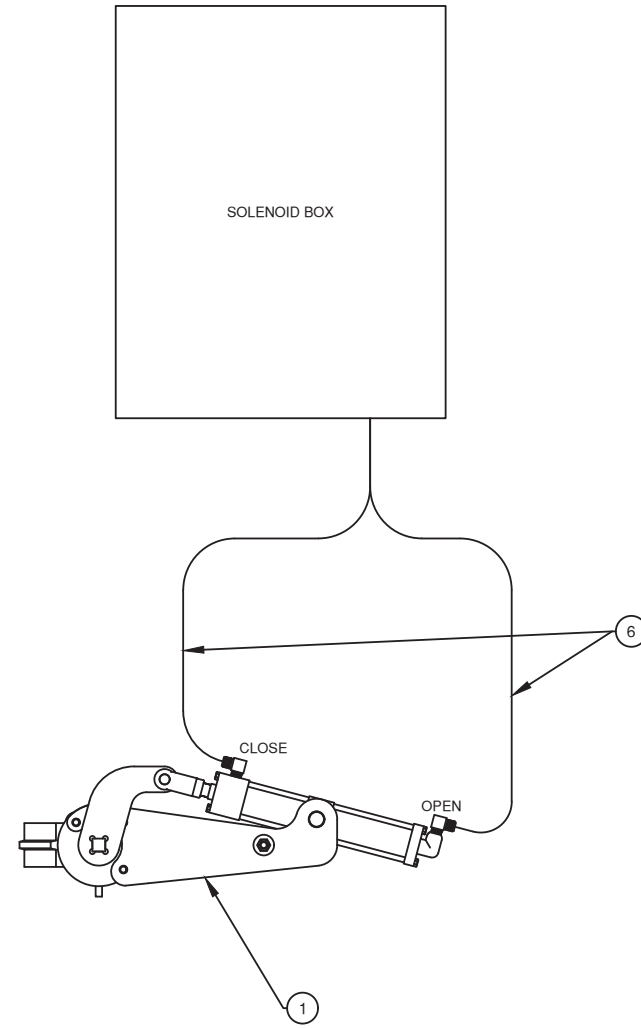
| BILL OF MATERIAL | | | | | |
|------------------|----------|------------------------|-------------------------|---------|-----|
| No. | Part No. | PART NAME | QTY | REF No. | WT. |
| 051137 | 1 | 025610 | SPRAY HEAD, HYDRAULIC | 1 | STK |
| 051138 | 1 | 047062 | SPRAY HEAD, HYD, SS | 1 | STK |
| 051137 | 2 | 025771 | BASE PLATE ASSEMBLY | 1 | STK |
| 051138 | 2 | 039271 | BASE PLATE ASSEMBLY, SS | 1 | STK |
| 3 | 352436 | ADPT -4 JIC -4 NPT 90° | 2 | | STK |



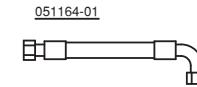
920

| | | | |
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| | TOLERANCE: UNLESS OTHERWISE SPECIFIED 3 PLACES ± 0.010 2 PLACES ± 0.03 ANGULAR ± 1° | | |
| NAME OF JOB: SPRAY SYSTEMS DRAWING TITLE: SPRAY HEAD BASE PLATE ASSEMBLY | | | |
| SCALE: NTS DATE: 12-1-16 DWG. No.: 051137 | | | |
| DRAWN BY: DSD SHEET 1 OF 1 | | | |

| REVISIONS | | | |
|-----------|------------------------|---------|----------|
| REV | DESCRIPTION | DATE | APPROVED |
| A | ADDED FITTINGS, 051138 | 2-13-17 | DSD |



926



NOTE: HOSE LABEL TO READ "051164-01"

| ITEM | Part No. | PART NAME | QTY | REF No. | WT. |
|------|-----------|-----------------------------|-----|---------|-----|
| 1 | 306236 | HOSE END, -4 JIC 0° -4 HOSE | 2 | | STK |
| 2 | H51164-01 | HOSE, SAE100R16 -4 X 300" | 1 | 306234 | STK |

BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|--------|-----------|-----------|--------------------|---------|------|
| 051164 | 1 | 011454 | BFV, HYD, 3" | 1 | STK |
| | 2 | 355536 | HHCS M16X2.0X110MM | 4 | SPLY |
| | 3 | 355472 | NUT, M16X2.0 | 4 | SPLY |
| | 4 | 355266 | WASHER M16 | 8 | SPLY |
| | 5 | 000194 | PIPE FLANGE, 3" | 2 | STK |
| 051165 | 1 | 029825 | BFV, HYD, 4" | 1 | STK |
| | 2 | 355536 | HHCS M16X2.0X110MM | 4 | SPLY |
| | 3 | 355472 | NUT, M16X2.0 | 4 | SPLY |
| | 4 | 355266 | WASHER M16 | 8 | SPLY |
| | 5 | 000227 | PIPE FLANGE, 4" | 2 | STK |
| 051166 | 1 | 036744 | BFV, HYD, 5" | 1 | REF |
| | 2 | 306932 | HHCS M20X2.5X140MM | 4 | SPLY |
| | 3 | 355258 | NUT, M20X2.5 | 4 | SPLY |
| | 4 | 355267 | WASHER M20 | 8 | SPLY |
| | 5 | 000198 | PIPE FLANGE, 5" | 2 | STK |
| 060792 | 1 | 038038 | BFV, HYD, 6" | 1 | REF |
| | 2 | 306932 | HHCS M20X2.5X140MM | 4 | SPLY |
| | 3 | 355258 | NUT, M20X2.5 | 4 | SPLY |
| | 4 | 355267 | WASHER M20 | 8 | SPLY |
| | 5 | 005042 | PIPE FLANGE, 6" | 2 | STK |
| 051167 | 1 | 041368 | BFV, HYD, 8" | 1 | STK |
| | 2 | 306932 | HHCS M20X2.5X140MM | 4 | STK |
| | 3 | 355258 | NUT, M20X2.5 | 4 | SPLY |
| | 4 | 355267 | WASHER M20 | 8 | SPLY |
| | 5 | 019860 | PIPE FLANGE, 8" | 2 | STK |
| 6 | 051164-01 | HOSE ASM | 2 | | SHT1 |

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

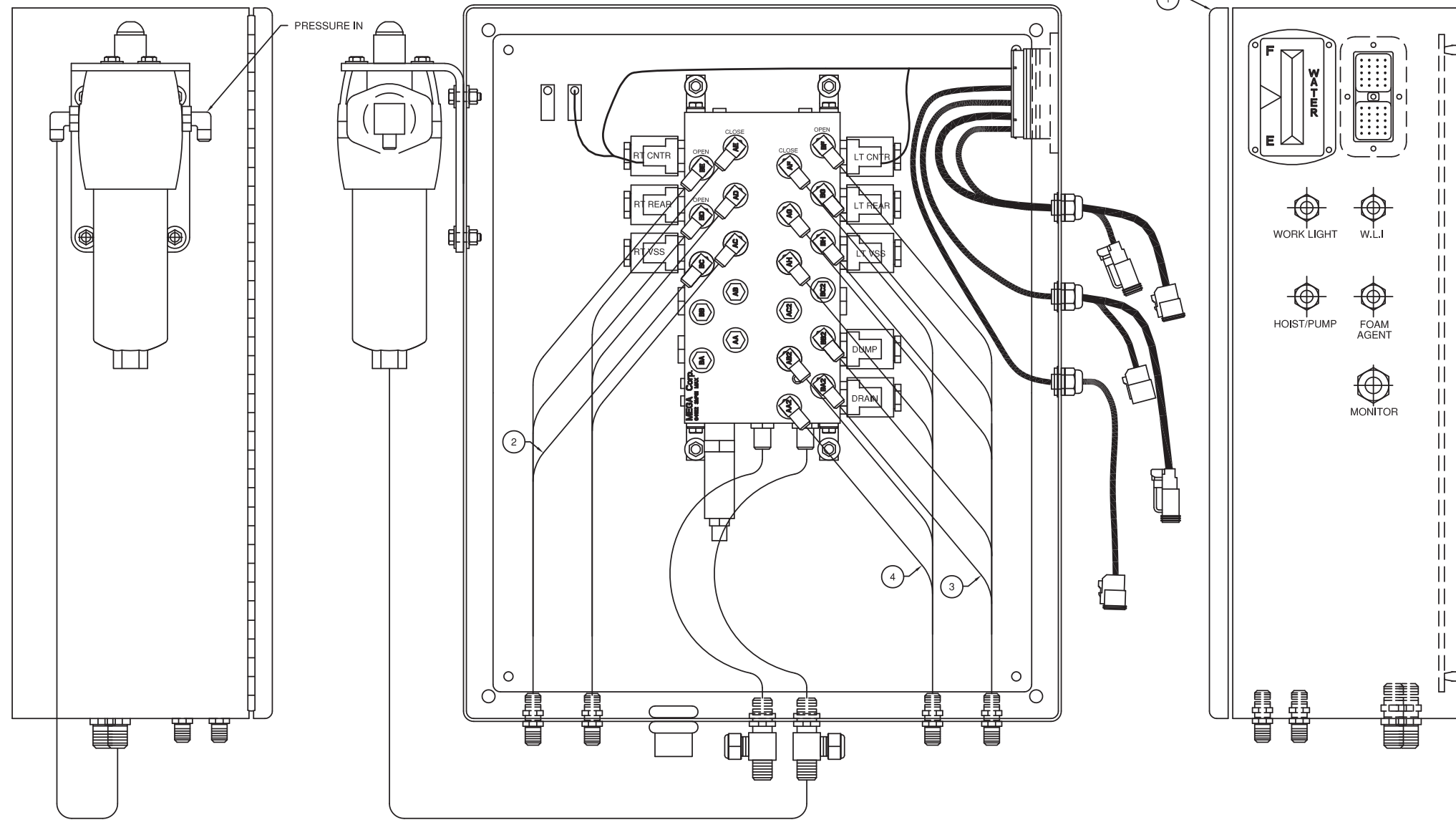
NAME OF JOB: SPRAY SYSTEM KITS
 DRAWING TITLE: HYDRAULIC BUTTERFLY VALVE KITS

| REV | DESCRIPTION | DATE | APPROVED | SCALE | DATE | DWG. No. |
|-----|------------------|---------|----------|-------|---------|----------|
| A | 002719 -> 019860 | 2-28-17 | DSD | NTS | 12-6-16 | 051164 |

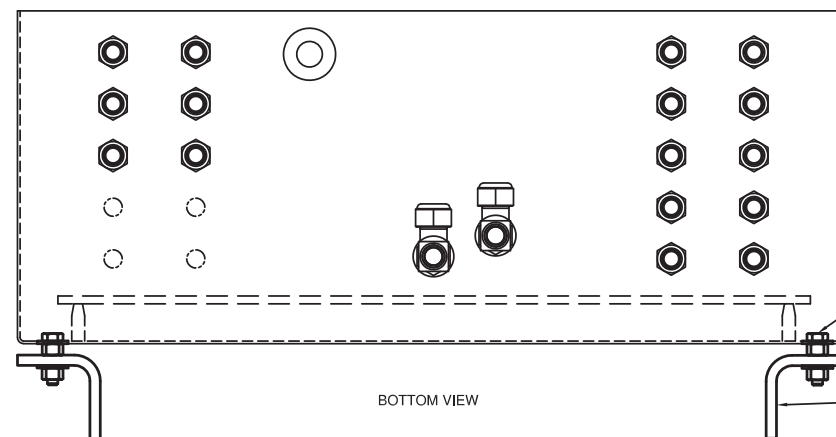
DRAWN BY: DSD SHEET 1 OF 1

BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|--------|----------|--------------------------------|-----|---------|-----|
| 047403 | 1 044313 | ENCLOSURE ASS'Y, 4 HEAD | 1 | 044303 | REF |
| 051276 | 1 044303 | ENCLOSURE ASS'Y, 4 HEAD | 1 | 044303 | REF |
| 2 | 044359 | BOX MODIFICATION, VSS | 1 | | REF |
| 3 | 044360 | BOX MODIFICATION, DUMP BAR | 1 | | REF |
| 4 | 044361 | BOX MODIFICATION, DUMP VALVE | 1 | | REF |
| 5 | 350148 | BOLT, FULL THRD, 3/8-16 X1.75" | 4 | | SUP |
| 6 | 350003 | WASHER, FLAT 3/8 | 8 | | SUP |
| 7 | 350025 | NUT, HEX 3/8-16UNC | 8 | | SUP |
| 8 | 355455 | WASHER, FENDER 3/8 | 8 | | SUP |
| 9 | 055671 | BOX MOUNT | 2 | | STK |
| 10 | 303822 | WLI CALIBRATION UNIT | 1 | | STK |



FRONT VIEW
W/LID REMOVED



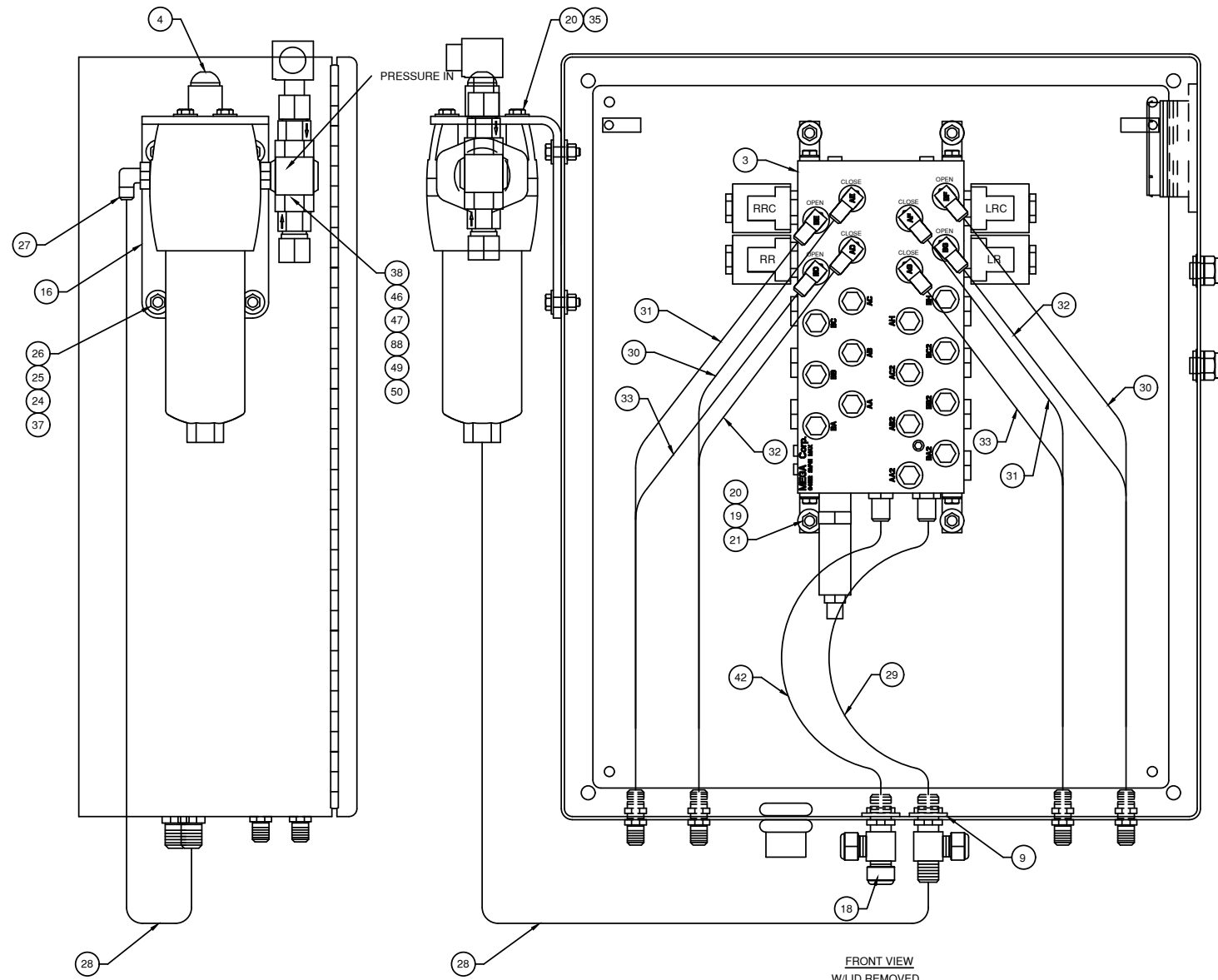
BOTTOM VIEW

| REV | DESCRIPTION | DATE | APPROVED |
|-----|----------------------------|----------|----------|
| A | FIXED PART NUMBERS 3 & 4 | 2/24/14 | CSB |
| B | ADDED 303824 | 3/24/14 | RRH |
| C | ADDED SCHEDULE ITEM 051276 | 1-19-17 | DSB |
| D | 303822 WAS 303824 | 01/09/19 | 17015 |
| E | ITEM 9 WAS 043579 | 10/21/21 | DCR |

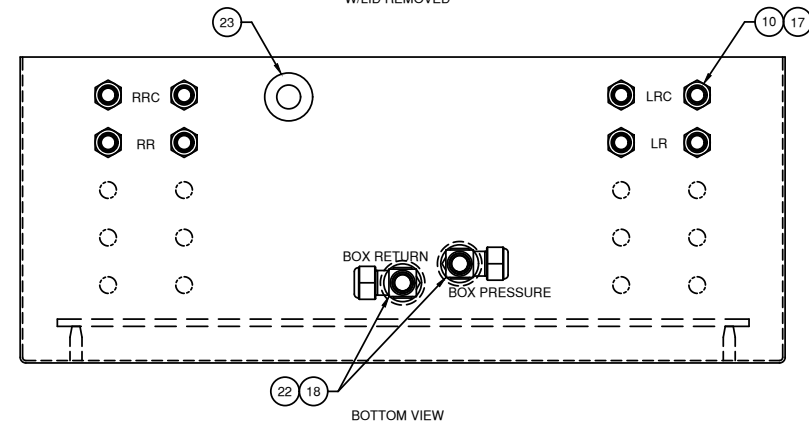
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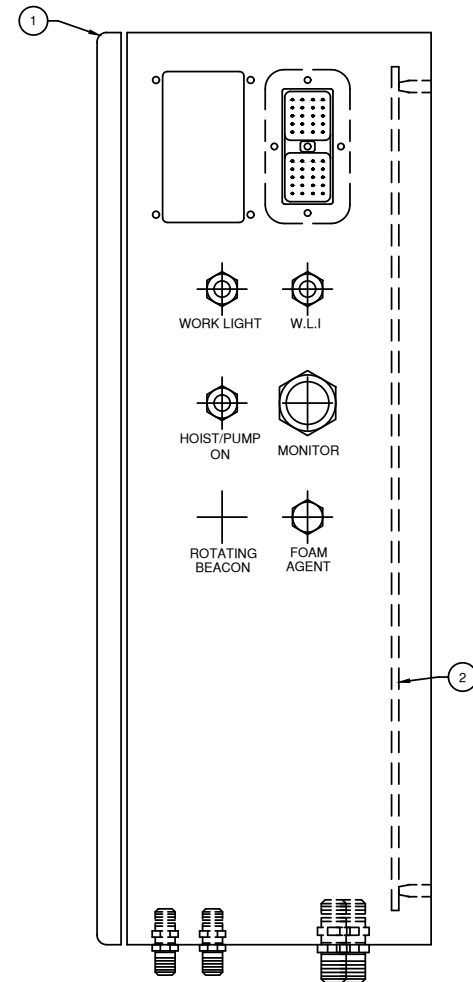
| TOLERANCE: UNLESS OTHERWISE SPECIFIED | | |
|--|-----------------|------------------|
| 3 PLACES ± 0.010 | 2 PLACES ± 0.03 | ANGULAR ± 1° |
| NAME OF JOB: S.B. SOLENOID CONTROL BOX (PART SALES STANDARD) | | |
| DRAWING TITLE: 4R, 2VSS, HYD MOT, WLI, FOAM, WL, DUMP, DRAIN | | |
| SCALE: 1/2"=0-1 | 6-12-13 | DWG. No.: 047403 |
| DRAWN BY: CSB | | |



FRONT VIEW
W/LID REMOVED



BOTTOM VIEW



| No. | Part No. | PART NAME | QTY | REF | WT | |
|--------|----------|-----------|------------------------------------|-----|--------|------|
| 044303 | 1 | 044304 | MODIFIED ENCLOSURE ASSY. | 1 | 044304 | STK |
| 044313 | 1 | 044312 | MODIFIED ENCLOSURE ASSY., SST | 1 | 044304 | STK |
| | 2 | 044497 | MODIFIED ENCLOSURE BACK PANEL, SST | 1 | | STK |
| | 3 | 044297 | HYD. CONTROL MANIFOLD | 1 | | REF |
| | 4 | 310262 | FILTER, HYDRAULIC | 1 | | STK |
| | 5 | 044740 | CABLE ASSEMBLY | 1 | | STK |
| | 6 | 355497 | CABLE TIE MOUNTING CRADLE | 19 | | SUP |
| | 7 | 354677 | STRAIN RELIEF 1/2" LARGE ORIF | 1 | | STK |
| | 8 | 303691 | STRAIN RELIEF 1/2" SMALL ORIF | 3 | | STK |
| | 9 | 353120 | WASHER, FLAT 9/16 | 2 | | SUP |
| | 10 | 352641 | JIC/JIC 2041-4-4S BULKHD. | 8 | | STK |
| | 11 | 355464 | #6 BTN HD HEX DRIVE X 1/2" | 8 | | SUP |
| | 12 | 355459 | KEPS NUT #6-32 | 8 | | SUP |
| | 13 | 307819 | WATER LEVEL INDICATOR | 1 | | STK |
| | 14 | 354463 | 3/4" STRAIN RELIEF | 1 | | STK |
| | 15 | 355023 | 3/4" STRAIN RELIEF LOCK RING | 1 | | STK |
| | 16 | 042952 | MOUNT, HYDRAULIC FILTER | 1 | | STK |
| | 17 | 353487 | JIC DUST CAP -4 | 8 | | SPLY |
| | 18 | 353489 | JIC DUST CAP -6 | 3 | | SPLY |
| | 19 | 350059 | HHCS, 1/4-20UNC X.75 | 6 | | SUP |
| | 20 | 350001 | WASHER, FLAT 1/4 | 10 | | SUP |
| | 21 | 354512 | NUT, HEX, LOCK 1/4-20UNC | 4 | | SUP |
| | 22 | 354065 | JIC/JIC 203008-6S BULKHD. TEE | 2 | | STK |
| | 23 | 305880 | CONDENSATION DRAIN | 1 | | STK |
| | 24 | 355564 | HHCS, M8X1.25 X25MM | 4 | | SUP |
| | 25 | 355510 | WASHER, FLAT M8 | 4 | | SUP |
| | 26 | 355253 | NUT, HEX M8X1.5 | 4 | | SUP |
| | 27 | 305903 | JIC/ORB -6-12 90° | 1 | | STK |
| | 28 | 043602 | HOSE ASSY. -6 X 40.00" | 1 | | STK |
| | 29 | 046467 | HOSE ASSEMBLY | 1 | | STK |
| | 30 | 043596 | HOSE ASSEMBLY | 2 | | STK |
| | 31 | 043597 | HOSE ASSEMBLY | 2 | | STK |
| | 32 | 043598 | HOSE ASSEMBLY | 2 | | STK |
| | 33 | 043599 | HOSE ASSEMBLY | 2 | | STK |
| | 34 | 355022 | 1/2" STRAIN RELIEF LOCK RING | 4 | | STK |
| | 35 | 350080 | CAP, SCREW 1/4-28 X .75 | 4 | | SUP |
| | 36 | 043425 | PLUG, 3 PIN | 1 | | REF |
| | 37 | 355455 | WASHER, FLAT FENDER | 12 | | SUP |
| | 38 | 306262 | ELBOW, -6ORFS -6ORFS SWIVEL | 1 | | STK |
| | 39 | 355498 | KEPS NUT 1/4-20UNR | 2 | | SPLY |
| | 40 | 355466 | CABLE TIE MOUNTING CRADLE | 9 | | SUP |
| | 41 | 305254 | CABLE TIE (BLACK NYLON) | 11 | | SUP |
| | 42 | 046466 | HOSE ASSEMBLY | 1 | | STK |
| | 43 | 306933 | CAP SCREW M10X1.5X45MM FULL | 4 | | STK |
| | 44 | 355254 | HEX NUT, M10X1.5 | 8 | | SUP |
| | 45 | 355264 | FLAT WASHER, M10 | 4 | | SUP |
| | 46 | 306941 | SHUTTLE VALVE | 1 | | STK |
| | 47 | 306942 | CHECK VALVE | 2 | | STK |
| | 48 | 309077 | ADPT, -6 ORB -6 ADJ ORB | 1 | | STK |
| | 49 | 355962 | RDCR, -12 ORB -6 ORB PORT | 1 | | STK |
| | 50 | 354043 | CAP, -6 ORFS | 2 | | SPLY |

ITEMS 17 AND 18 FOR SHIPPING.
SEE SHEET TWO FOR WIRE DETAIL

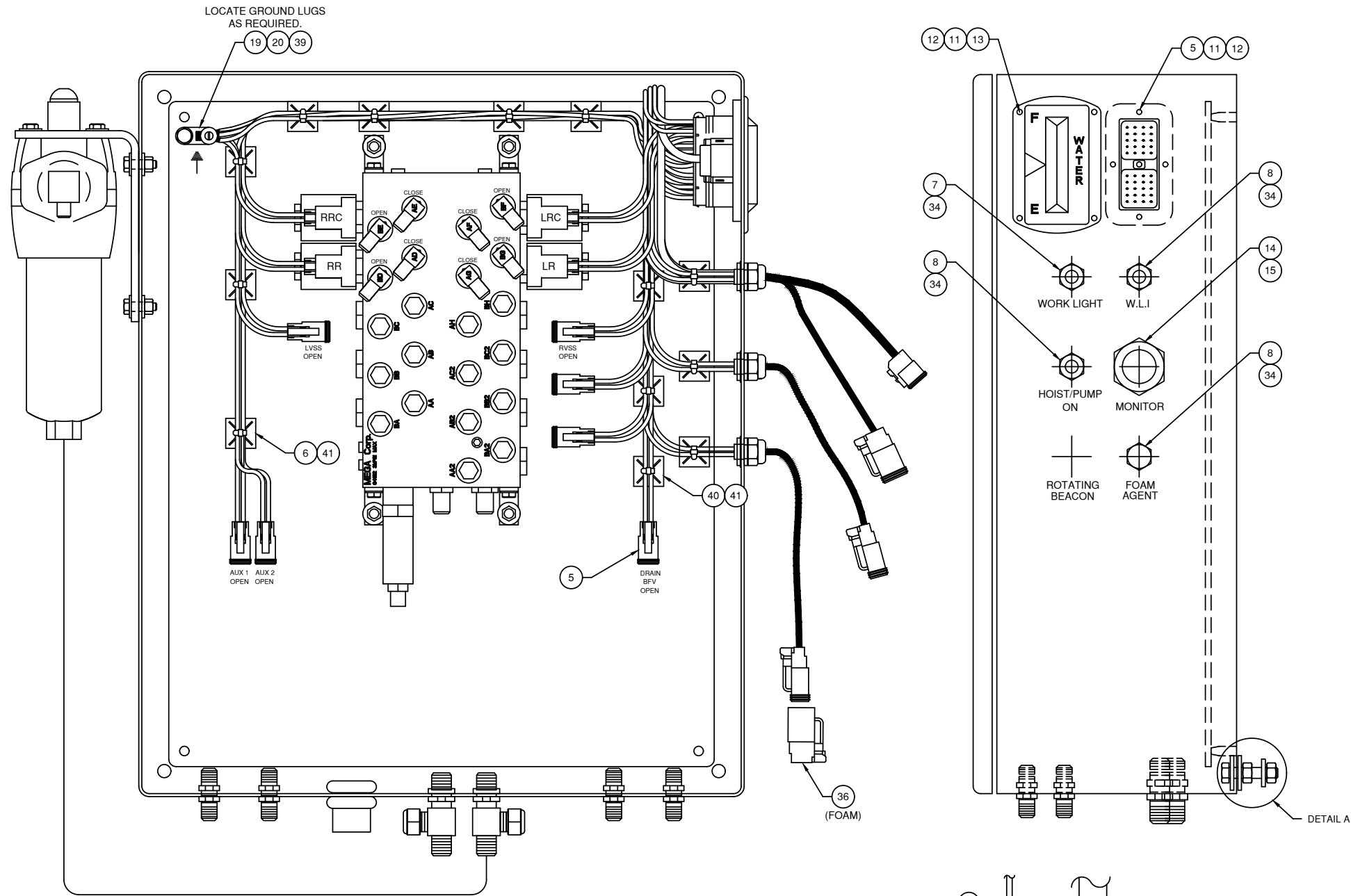
| REV | DESCRIPTION | DATE | APV |
|-----|--|------------|-------|
| W | (1)305903,(1)353489->306262,306942,306941,309077,355962,354043 | 25-MAR-25 | TCS |
| V | 305277->310262 | 18-SEP-24 | TCS |
| U | ADDED 2X 350001, REARRANGED HOSES | 9-6-18 | 18078 |
| T | REPLACED 303821 WITH 307819 | 08-04-16 | 16039 |
| S | ADDED 306933 355254 355264 | 04-28-16 | 16033 |
| R | CORRECTED HARDWARE FOR STOCK ITEMS | 23-SEPT-14 | TCS |
| Q | CORRECTED HARDWARE FOR STOCK ITEMS | 18-SEPT-14 | TCS |
| P | METRIC HARDWARE | 31-JULY-14 | 14009 |
| O | ADDED 043425 | APR-7-14 | RRH |
| N | REMOVE ASSY 043043 ADD COMPONENTS | JULY-15-13 | 13078 |
| M | CORRECTED PORT LABELS | MAY-02-13 | 13055 |
| L | REMOVED 040517, 039596, 041199 & SHT 3. | Nov-05-12 | 12089 |
| K | CHGD. TO STK (043043, 040517, 039596, 041199) | Aug-29-12 | 12072 |
| J | ITEM 29 WAS 043604, ITEM 42 WAS 044348 | Aug-15-12 | 12069 |
| H | ITEM 29, 42 NOW STOCK | Aug-03-12 | LAP |
| G | ITEM ONE NOW STOCK | Jan-31-12 | RRH |
| F | CHGD. HYD. HOSES TO STOCK, (043596,597,598,599,602) | Sep-20-11 | DMG |
| E | ADDED ITEM #9 WASHER FOR BULKHEAD TEES | Aug-18-11 | 11097 |
| D | BACK PANEL NOW STK, ITEM 2 | Jul-27-11 | LAP |
| C | REPLACED WIRING COMPONENTS WITH CABLE ASSEMBLY | Apr-21-11 | 11046 |
| B | ADDED WIRE 27 & 28 TO WLI FOR REMOTE OPERATION | Feb-04-11 | 11029 |
| A | ITEM 2 SST BACK PANEL WAS 044314 | Jan-19-11 | LAP |

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Albuquerque, NM 87125
(505) 343-2361

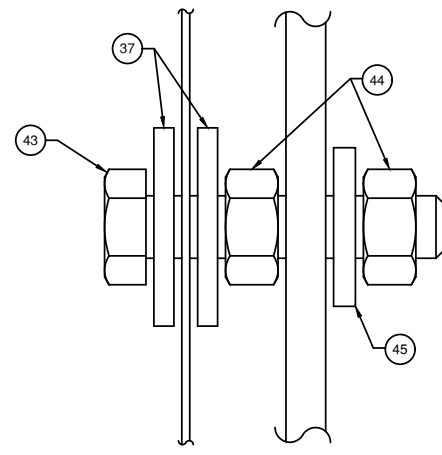
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TOLERANCE: UNLESS OTHERWISE SPECIFIED
3 PLACES ± 0.010 2 PLACES ± 0.03 ANGULAR ± 1°

DRAWING TITLE: ENCLOSURE ASSY, 4 HDS.
SCALE: NTS DATE: Sep-21-10 DWG. No: 044303
DRAWN BY: DMG SHEET 1 OF 2

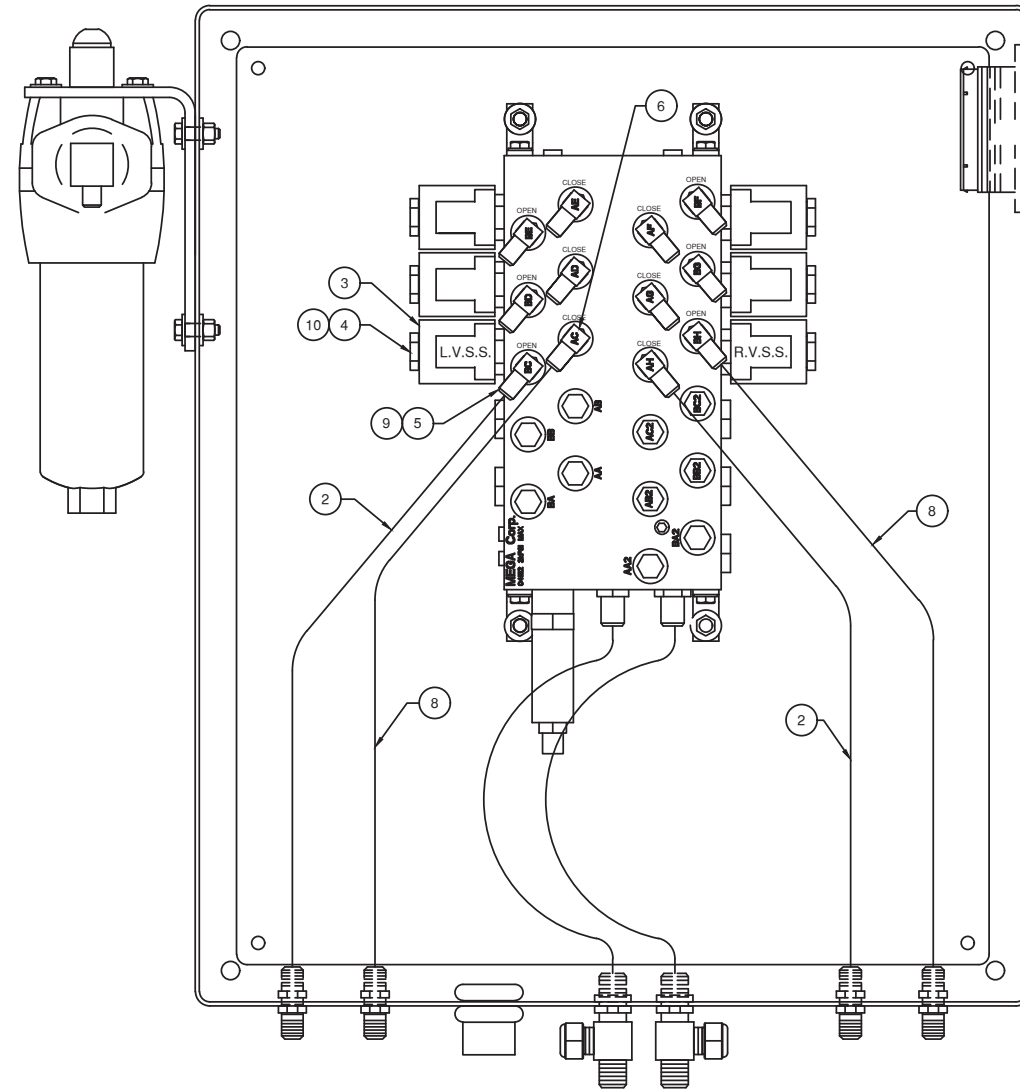


FRONT VIEW
W/LID REMOVED

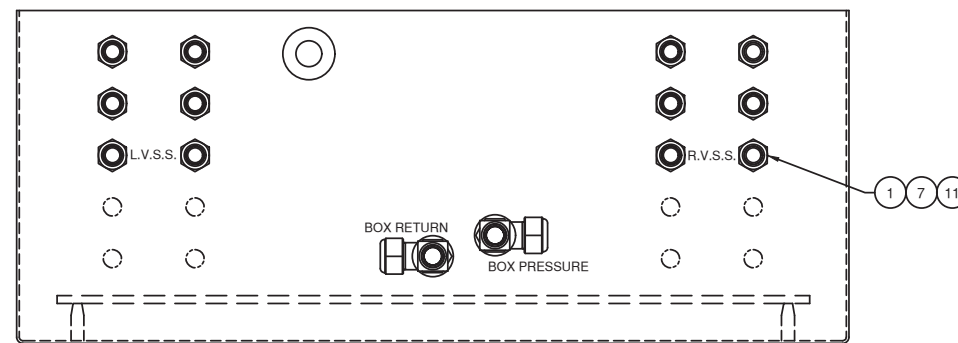


DETAIL A

| | | |
|---|-----------------|-----------------|
| | | |
| <small>700 OSUNA Rd. N.E. P.O. Box 25146 Minneapolis, MN 55425 (612) 345-2661</small> | | |
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| <small>TOLERANCE: UNLESS OTHERWISE SPECIFIED</small> | | |
| 3 PLACES ± 0.010 | 2 PLACES ± 0.03 | ANGULAR ± 1° |
| <small>DRAWING TITLE: ENCLOSURE ASSY. 4 HDS.</small> | | |
| SCALE: NTS | DATE: Sep-21-10 | DWG. No. 044303 |
| DRAWN BY: DMG | SHEET 2 OF 2 | |



FRONT VIEW
W/LID REMOVED



BOTTOM VIEW

BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|-----|----------|----------------------------------|-----|---------|------|
| 1 | 352641 | JIC/JIC 2041-4-4S BULKHD. | 4 | | STK |
| 2 | 043600 | HOSE ASSY. -4 X 16.00" | 2 | | STK |
| 3 | 305590 | COIL, 24VDC | 2 | | STK |
| 4 | 305156 | SOLENOID VALVE 4WAY-2POS | 2 | | STK |
| 5 | 352481 | JIC/ORB -4-4 90° | 2 | | STK |
| 6 | 355424 | JIC/ORB -4-4 90° LONG | 2 | | STK |
| 7 | 353487 | JIC DUST CAP -4 | 4 | | SPLY |
| 8 | 043601 | HOSE ASSY. -4 X 15.50" | 2 | | STK |
| 9 | 353475 | PLUG, ORB -4 | -4 | | REM |
| 10 | 304860 | PLUG, CAVITY C-8-4 | -2 | | REM |
| 11 | 353314 | STAR WASHER INTERNAL TOOTH 7/16" | 4 | | SPLY |

ITEM 7 FOR SHIPPING ONLY

PRODUCED FROM 043926

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

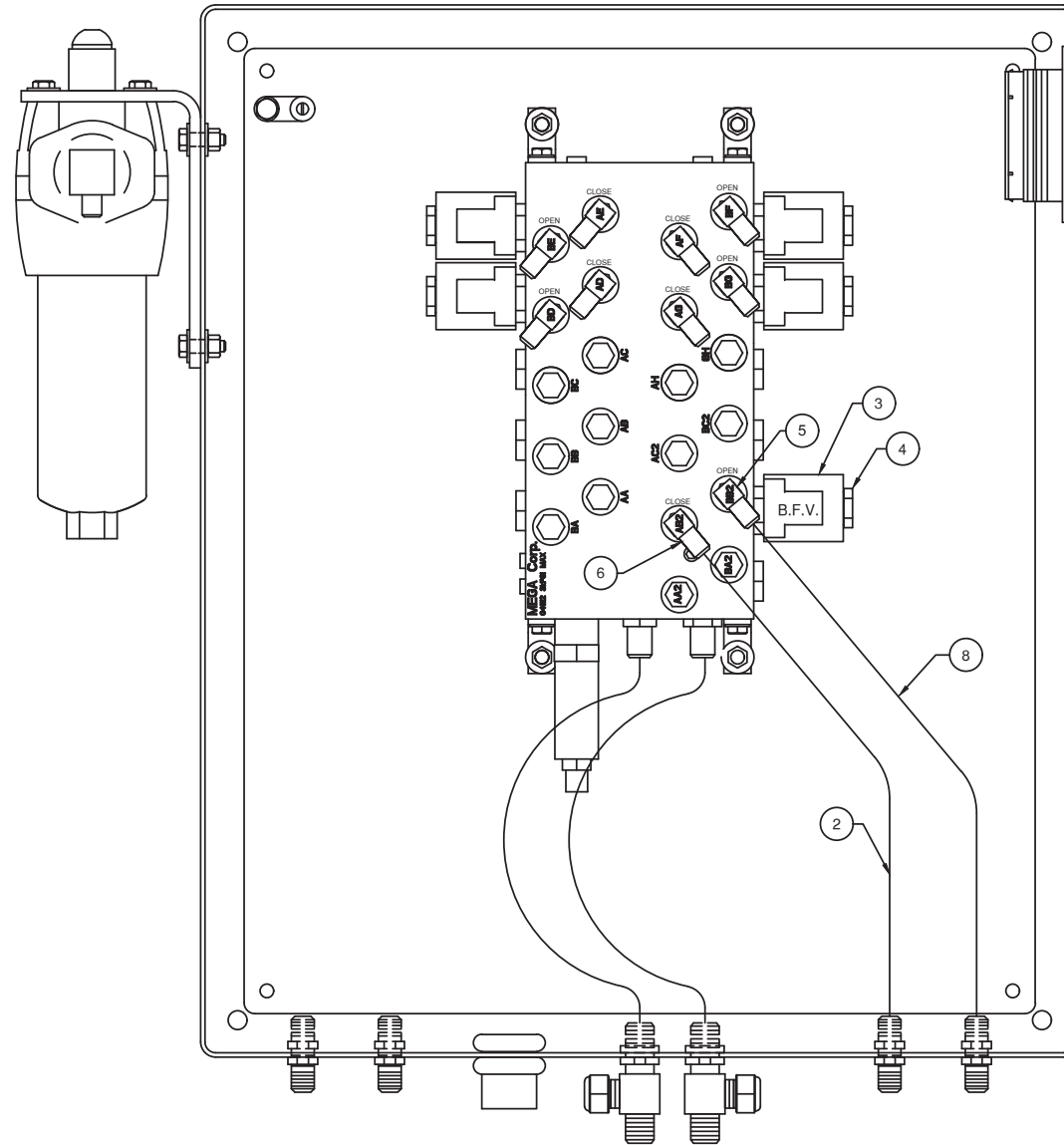
| REV | DESCRIPTION | DATE | APPROVED | NAME OF JOB: | MTT UNITS |
|-----|---------------------------|---------|----------|---|--------------|
| A | CHGD. HOSE ASSYS TO STK. | 9-20-11 | DMG | DRAWING TITLE: SOL. BOX MOD. FOR VSS INSTALL. | |
| B | ADDED REMOVE ITEMS TO BOM | 3-11-14 | 14020 | SCALE: 1/2=0-1 | 10-10-10 |
| C | ADDED 353314 | 3-23-20 | RRH/DCR | DRAWN BY: DMG | SHEET 1 OF 1 |

DWG. No.: 044359

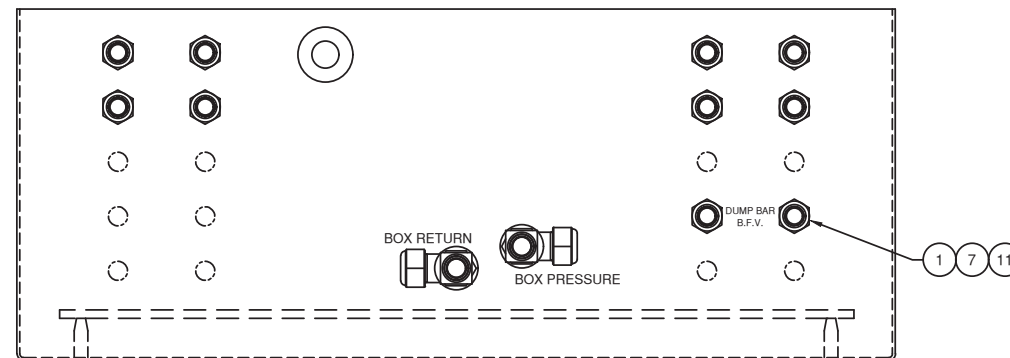
BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|-----|----------|----------------------------------|-----|---------|------|
| 1 | 352641 | JIC/JIC 2041-4-4S BULKHD. | 2 | | STK |
| 2 | 043808 | HOSE ASSY. -4 X 13.00" | 1 | | STK |
| 3 | 305590 | COIL, 24VDC | 1 | | STK |
| 4 | 305156 | SOLENOID VALVE 4WAY-2POS | 1 | | STK |
| 5 | 352481 | JIC/ORB -4-4 90° | 1 | | STK |
| 6 | 355424 | JIC/ORB -4-4 90° LONG | 1 | | STK |
| 7 | 353487 | JIC DUST CAP -4 | 2 | | SPLY |
| 8 | 044347 | HOSE ASSY. -4 X 13.50" | 1 | | STK |
| 9 | 353475 | PLUG, ORB -4 | -2 | | REM |
| 10 | 304860 | PLUG, CAVITY C-8-4 | -1 | | REM |
| 11 | 353314 | STAR WASHER INTERNAL TOOTH 7/16" | 2 | | SPLY |

RETURN PLUGS TO WAREHOUSE
ITEM 7 FOR SHIPPING ONLY



FRONT VIEW
W/LID REMOVED



BOTTOM VIEW

REVISIONS

| REV | DESCRIPTION | DATE | ECR |
|-----|-----------------------|-----------|---------|
| A | MADE 044347 STOCK | May-25-12 | LAP |
| B | MADE 043808 STOCK | Oct-10-10 | 12072 |
| C | ADDED 353475 & 304860 | 8-27-14 | RRH |
| D | ADDED 353314 | 3-24-20 | RRH/DCR |

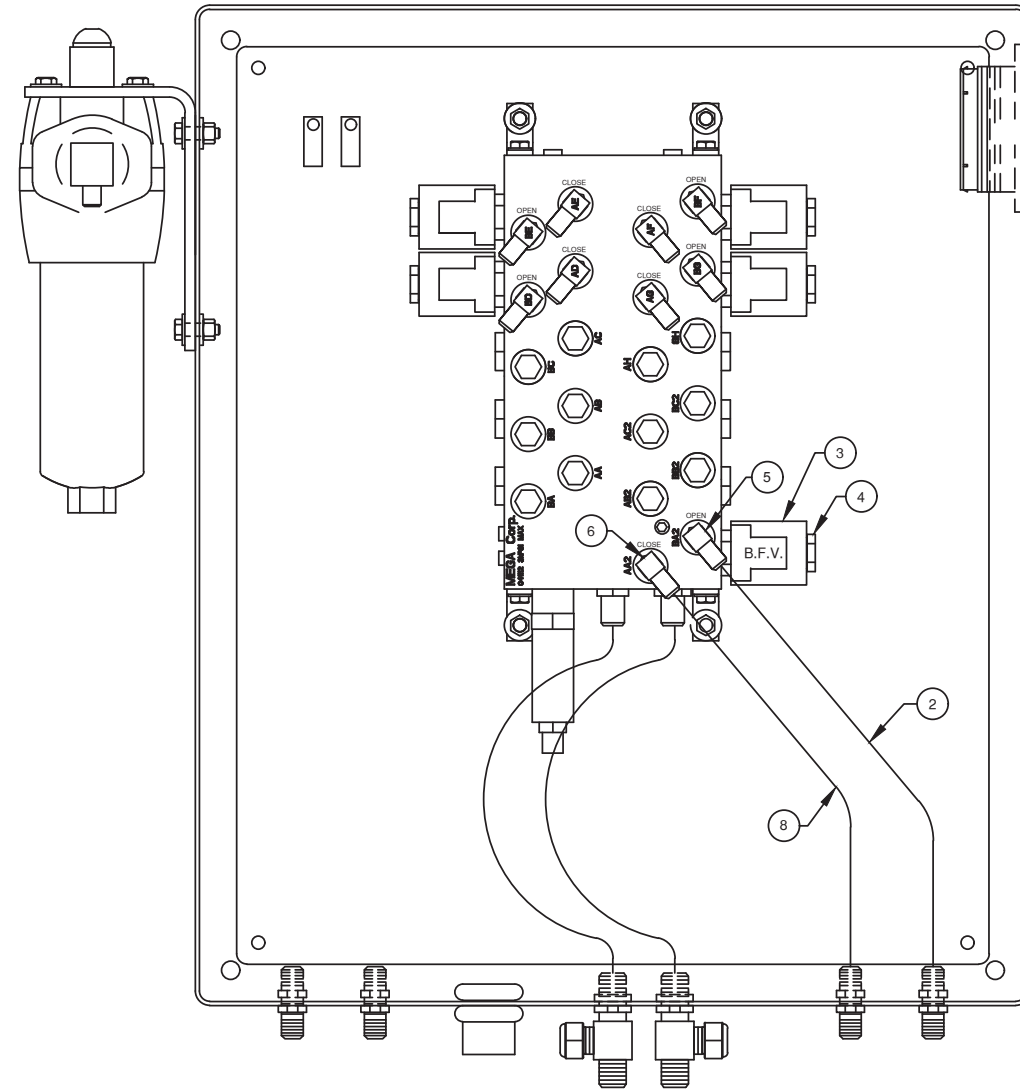


PRODUCED FROM 043926
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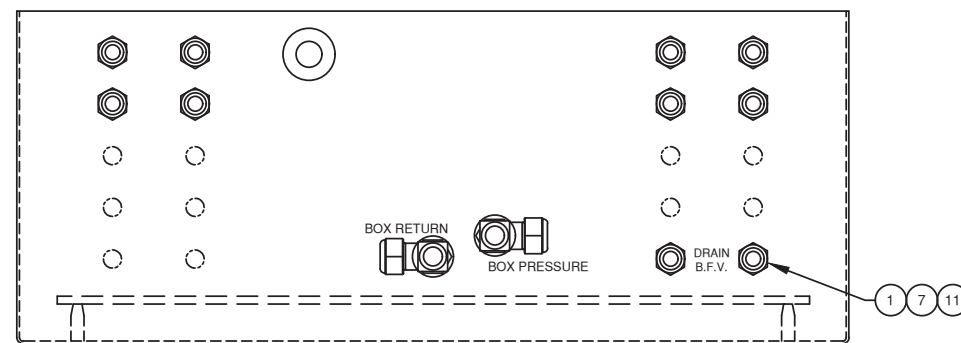
| | | |
|--|-----------------|-----------------|
| TOLERANCE: UNLESS OTHERWISE SPECIFIED | | |
| 3 PLACES ± 0.010 | 2 PLACES ± 0.03 | ANGULAR ± 1° |
| NAME OF JOB: MTT UNITS | | |
| DRAWING TITLE: SOL. BOX MOD. FOR DUMP BAR B.F.V. INSTALL | | |
| SCALE: NTS | Oct-10-10 | DWG. No. 044360 |
| DRAWN BY: DMG | SHEET 1 OF 1 | |

BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|-----|----------|---------------------------------|-----|---------|------|
| 1 | 352641 | JIC/JIC 2041-4-4S BULKHD. | 2 | | STK |
| 2 | 043810 | HOSE ASSY. -4 X 11.50" | 1 | | STK |
| 3 | 305590 | COIL, 24VDC | 1 | | STK |
| 4 | 305156 | SOLENOID VALVE 4WAY-2POS | 1 | | STK |
| 5 | 352481 | JIC/ORB -4-4 90° | 1 | | STK |
| 6 | 355424 | JIC/ORB -4-4 90° LONG | 1 | | STK |
| 7 | 353487 | JIC DUST CAP -4 | 2 | | SPLY |
| 8 | 043811 | HOSE ASSY. -4 X 11.00" | 1 | | STK |
| 9 | 353475 | PLUG, ORB -4 | -2 | | REM |
| 10 | 304860 | PLUG, CAVITY C-8-4 | -1 | | REM |
| 11 | 353314 | STAR WASHER INTERNAL TOOTH 7/16 | 2 | | SPLY |



FRONT VIEW
W/LID REMOVED



BOTTOM VIEW

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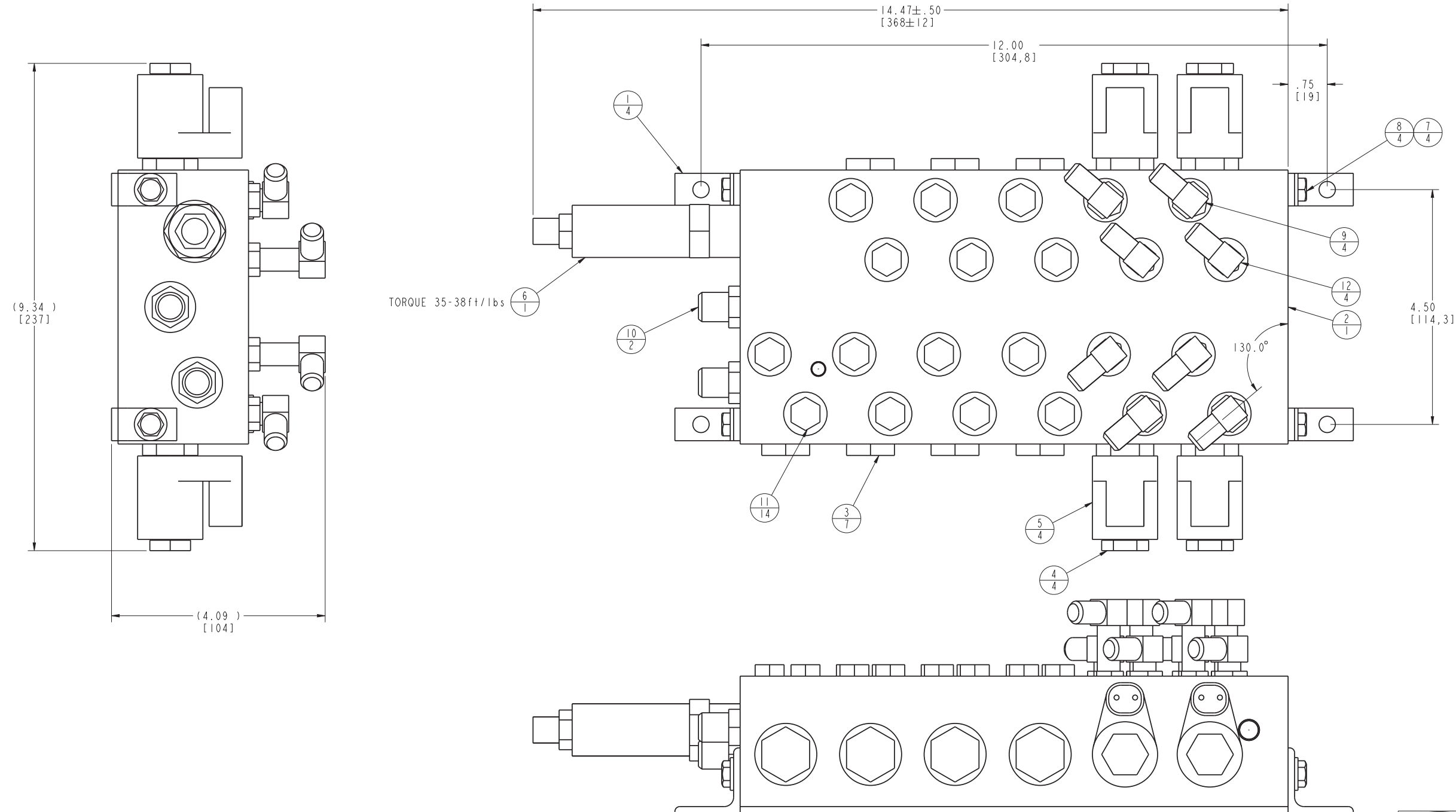
| REVISIONS | | | | TOLERANCE: UNLESS OTHERWISE SPECIFIED | | |
|-----------|-----------------------|----------|----------|---|-----------------|------------------|
| REV | DESCRIPTION | DATE | APPROVED | 3 PLACES ± 0.010 | 2 PLACES ± 0.03 | ANGULAR ± 1° |
| A | HOSES CHANGED TO STK | 05-23-12 | LAP | NAME OF JOB: MTT UNITS | | |
| B | ADDED 353475 & 304860 | 8-27-14 | RRH | DRAWING TITLE: SOL. BOX MOD. FOR REMOTE DRAIN BFV INSTALL | | |
| C | ADDED 353314 | 3-24-20 | RRH | SCALE: 1/2"=0-1 | 10-10-10 | DWG. No.: 044361 |
| | | | | DRAWN BY: DMG | SHEET 1 OF 1 | |

NOTES:
 FOLLOW TORQUE SPEC. DO NOT OVER TIGHTEN
 PORT ORB-4 TORQUE 14-16ft/lbs
 PORT ORB-6 TORQUE 24-26ft/lbs
 PORT C-8-4 TORQUE 25-30ft/lbs
 PORT C-10-3 TORQUE 35-38ft/lbs

GENERAL NOTES:
 USING 4 WAY, 2 POSITION VALVES

SET REGULATOR PRESSURE TO 650 PSI

| ITEM | PART NO. | PART NAME | QTY | REF NO. | IND. | WT. |
|------|----------|--|-----|---------|------|------|
| 1 | 043503 | ANGLE, MOUNTING HYDRAULIC MANIFOLD | 4 | | | STK |
| 2 | 045703 | 6061-T6511 ALUM. 5.25 X 10.50 | 1 | | | STK |
| 3 | 304860 | PLUG, CAVITY C-8-4 | 7 | | | STK |
| 4 | 305156 | SOLENOID VALVE, SV1-8V-4-0-00, 4WAY-2POS | 2 | | | STK |
| 5 | 305590 | COIL, 24VDC | 4 | | | STK |
| 6 | 309093 | REGULATOR, 1200PSI MAX | 1 | | | STK |
| 7 | 350001 | WASHER, FLAT 1/4 | 4 | | | SPLY |
| 8 | 350057 | SCREW, CAP 1/4-20 UNC X0.50 | 4 | | | SPLY |
| 9 | 352481 | ADP JIC/ORB 4-4 90° | 4 | | | STK |
| 10 | 352606 | ADP JIC/ORB 6-6 0° | 2 | | | STK |
| 11 | 353475 | PLUG, ORB-4 | 14 | | | STK |
| 12 | 355424 | ADP JIC/ORB 4-4 90° LNG | 4 | | | STK |



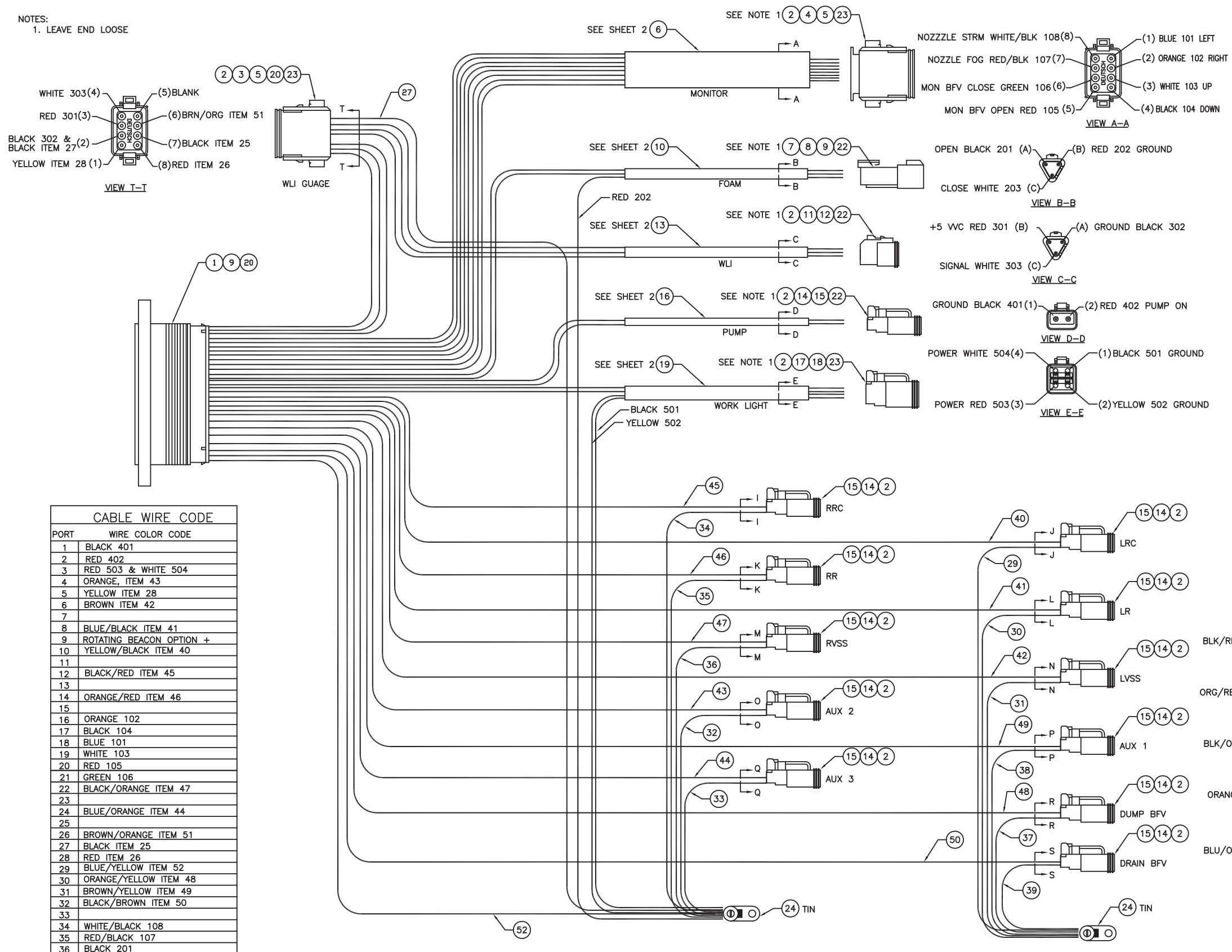
| REVISIONS | | | |
|-----------|---------------------------|-----------|-------|
| REV | DESCRIPTION | DATE | ECR |
| A | REPLACED NPT PLUGS W/ LEE | 11-17-11 | DE |
| B | ADD 650 PSI NOTE | 1-22-15 | 14026 |
| C | 350000 NOW 350001 | Sep-06-18 | RRH |
| D | REPLACE 304861>309093 | Nov-06-18 | 18108 |



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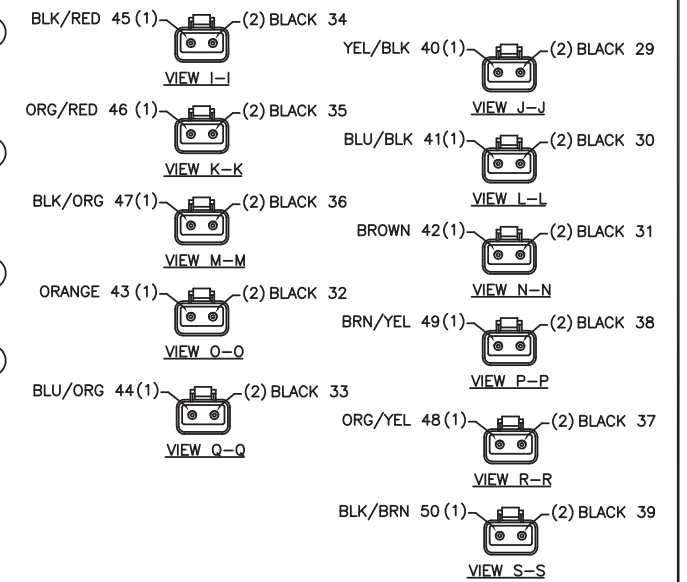
| | |
|--|-------------------------------|
| TOLERANCE: UNLESS OTHERWISE SPECIFIED | |
| 3 PLACES ± 0.010 | 2 PLACES ± 0.030 ANGULAR ± 1° |
| DWG. TITLE: HYDRAULIC CONTROL MANIFOLD, 4 HEAD | |
| SCALE: NTS | DATE: 16-Sep-10 |
| DRAWN BY: DMG | SHEET 1 OF 1 |
| DWG. NO. 044297 | |

NOTES:
1. LEAVE END LOOSE



| PORT | WIRE COLOR CODE |
|------|---|
| 1 | BLACK 401 |
| 2 | RED 402 |
| 3 | RED 503 & WHITE 504 |
| 4 | ORANGE, ITEM 43 |
| 5 | YELLOW ITEM 28 |
| 6 | BROWN ITEM 42 |
| 7 | |
| 8 | BLUE/BLACK ITEM 41 |
| 9 | ROTATING BEACON OPTION + YELLOW/BLACK ITEM 40 |
| 10 | BLACK/RED ITEM 45 |
| 11 | |
| 12 | ORANGE/RED ITEM 46 |
| 13 | |
| 14 | ORANGE 102 |
| 15 | BLACK 104 |
| 16 | WHITE 103 |
| 17 | RED 105 |
| 18 | GREEN 106 |
| 19 | BLACK/ORANGE ITEM 47 |
| 20 | BLUE/ORANGE ITEM 44 |
| 21 | BROWN/ORANGE ITEM 51 |
| 22 | BLACK ITEM 25 |
| 23 | RED ITEM 26 |
| 24 | BLUE/YELLOW ITEM 52 |
| 25 | ORANGE/YELLOW ITEM 48 |
| 26 | BROWN/YELLOW ITEM 49 |
| 27 | BLACK/BROWN ITEM 50 |
| 28 | WHITE/BLACK 108 |
| 29 | RED/BLACK 107 |
| 30 | BLACK 201 |
| 31 | WHITE 203 |
| 32 | |
| 33 | |
| 34 | BLACK 501 |
| 35 | YELLOW 502 |
| 36 | |
| 37 | |
| 38 | |
| 39 | |
| 40 | |

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|-----|----------|---------------------------------|-----|---------|-----|
| 1 | 304229 | 40 PIN CONNECTOR, RECPT. | 1 | | STK |
| 2 | 303380 | SOCKET, FEMALE DEUTSCH 16-20 | 46 | | SUP |
| 3 | 304287 | PLUG, 8 PIN DEUTSCH | 1 | | STK |
| 4 | 305007 | PLUG, 8 PIN DEUTSCH W/SHRINK | 1 | | STK |
| 5 | 304387 | WEDGE LOCK 8 SOCKET | 5 | | SUP |
| 6 | 303248 | CABLE, 8 CON 16GA | 84 | | SUP |
| 7 | 304464 | RECEPTACLE, 3 PIN DEUTSCH | 1 | | STK |
| 8 | 304465 | WEDGE LOCK 3 PIN | 1 | | SUP |
| 9 | 303366 | PIN, MALE DEUTSCH 16-18 | 15 | | SUP |
| 10 | 300497 | CABLE, 3 CON 16GA | 84 | | SUP |
| 11 | 303626 | PLUG, 3 PIN DEUTSCH | 1 | | STK |
| 12 | 304706 | WEDGE LOCK 3 SOCKET | 1 | | SUP |
| 13 | 306381 | CABLE, 3 CON 18GA | 84 | | SUP |
| 14 | 304285 | PLUG, 2 PIN DEUTSCH | 12 | | STK |
| 15 | 304385 | WEDGE LOCK 2 SOCKET | 12 | | SUP |
| 16 | 300484 | CABLE, 2 CON 14GA | 84 | | SUP |
| 17 | 304468 | PLUG, 4 PIN DEUTSCH | 1 | | STK |
| 18 | 304469 | WEDGE LOCK 4 SOCKET | 1 | | SUP |
| 19 | 306377 | CABLE, 4 CON 16GA | 84 | | SUP |
| 20 | 304471 | PIN BLANK | 16 | | SUP |
| 21 | | | | | |
| 22 | 305266 | HEAT SHRINK .44" X 6" | 3 | | SUP |
| 23 | 304727 | HEAT SHRINK .75" X 6" | 3 | | SUP |
| 24 | 305901 | GROUND LUG | 2 | | STK |
| 25 | 305202 | WIRE, SINGLE 18GA BLACK | 12 | | SUP |
| 26 | 303074 | WIRE, SINGLE 18GA RED | 12 | | SUP |
| 27 | 305202 | WIRE, SINGLE 18GA BLACK | ?? | | SUP |
| 28 | 305201 | WIRE, SINGLE 18GA YELLOW | ?? | | SUP |
| 29 | 305202 | WIRE, SINGLE 16GA BLACK | ?? | | SUP |
| 30 | 305202 | WIRE, SINGLE 16GA BLACK | ?? | | SUP |
| 31 | 305202 | WIRE, SINGLE 16GA BLACK | ?? | | SUP |
| 32 | 305202 | WIRE, SINGLE 16GA BLACK | ?? | | SUP |
| 33 | 305202 | WIRE, SINGLE 16GA BLACK | ?? | | SUP |
| 34 | 305202 | WIRE, SINGLE 16GA BLACK | ?? | | SUP |
| 35 | 305202 | WIRE, SINGLE 16GA BLACK | ?? | | SUP |
| 36 | 305202 | WIRE, SINGLE 16GA BLACK | ?? | | SUP |
| 37 | 305202 | WIRE, SINGLE 16GA BLACK | ?? | | SUP |
| 38 | 305202 | WIRE, SINGLE 16GA BLACK | ?? | | SUP |
| 39 | 305202 | WIRE, SINGLE 16GA BLACK | ?? | | SUP |
| 40 | | WIRE, SINGLE 16GA YELLOW/BLACK | 3' | | STK |
| 41 | | WIRE, SINGLE 16GA BLUE/BLACK | 3' | | STK |
| 42 | | WIRE, SINGLE 16GA BROWN | 3' | | STK |
| 43 | | WIRE, SINGLE 16GA ORANGE | 3' | | STK |
| 44 | | WIRE, SINGLE 16GA BLUE/ORANGE | 3' | | STK |
| 45 | 303068 | WIRE, SINGLE 16GA BLACK/RED | 3' | | STK |
| 46 | | WIRE, SINGLE 16GA ORANGE/RED | 3' | | STK |
| 47 | | WIRE, SINGLE 16GA BLACK/ORANGE | 3' | | STK |
| 48 | | WIRE, SINGLE 16GA ORANGE/YELLOW | 3' | | STK |
| 49 | | WIRE, SINGLE 16GA BROWN/YELLOW | 3' | | STK |
| 50 | | WIRE, SINGLE 16GA BLACK/BROWN | 3' | | STK |
| 51 | | WIRE, SINGLE 16GA BROWN/ORANGE | 3' | | STK |
| 52 | | WIRE, SINGLE 16GA BLUE/YELLOW | 3' | | STK |



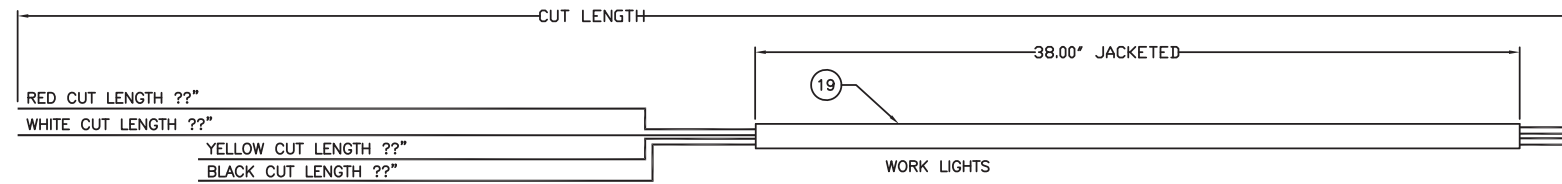
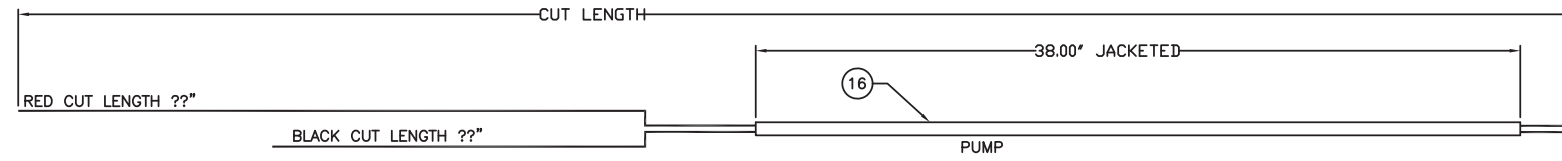
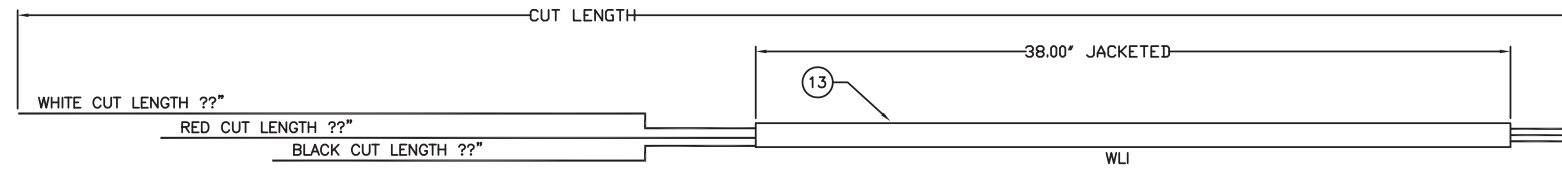
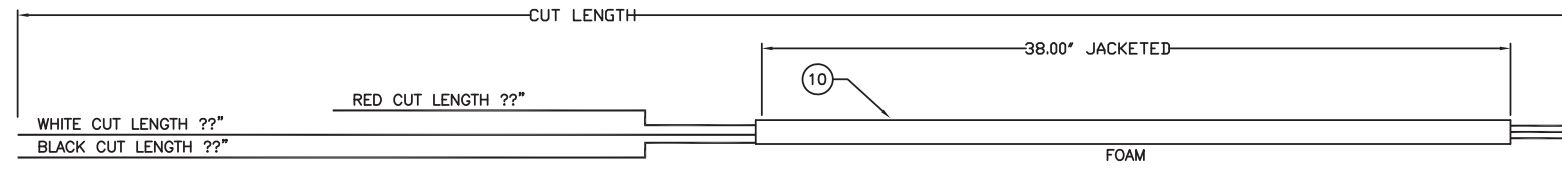
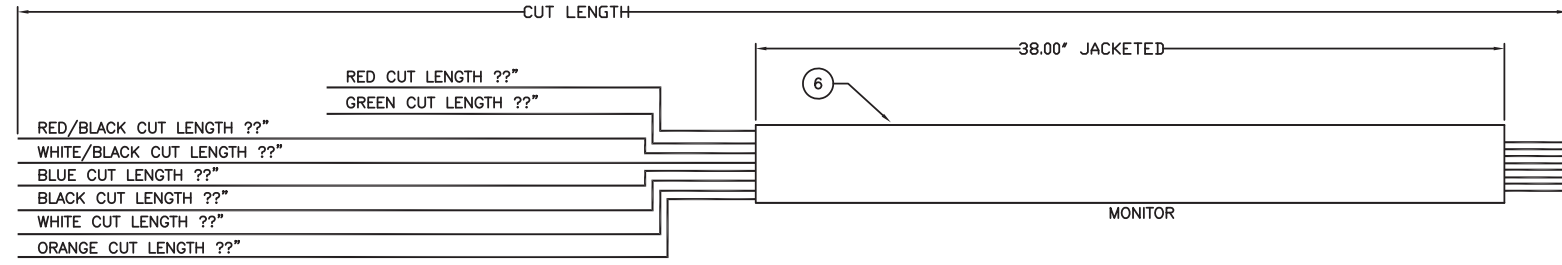
| REV | DESCRIPTION | DATE | APPROVED |
|-----|---|----------|----------|
| A | CHGD. PR. PIN WIRING | 5-22-12 | 12043 |
| B | UPDATED WITH PIG TAILS, RE-MADE DRAWING | 11-2-12 | 12099 |
| C | 303068 WAS 305203 | 9-12-13 | RRH |
| D | SUPPLY ELECTRICAL COMPONENTS | 4-30-14 | 14007 |
| E | CHANGED COLOR 301, 302, 428 | 12-14-15 | 15085 |
| F | PORT #5 IN 40 CON WAS "RED" ITEM 28 | 1-20-20 | RRH |

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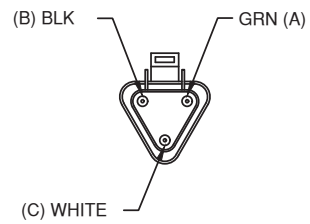
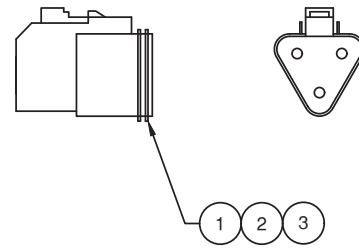
NAME OF JOB: STANDARD SPRAY CONTROL SYSTEM
 DRAWING TITLE: SOLENOID BOX WIRE HARNESS
 SCALE: 1/2"=0-1 | DATE: 3-13-11 | DWG. No.: 044740
 DRAWN BY: RRH | SHEET 1 OF 2



| | | | | | |
|--|-----------------|---|--|--|--|
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| TOLERANCE: UNLESS OTHERWISE SPECIFIED | | | | | |
| 3 PLACES ± 0.010 | 2 PLACES ± 0.03 | ANGULAR ± 1° | | | |
| NAME OF JOB: STANDARD SPRAY CONTROL SYSTEM | | | | | |
| DRAWING TITLE: SOLENOID BOX WIRE HARNESS | | | | | |
| SCALE: 1/2=0-1 | DATE: 3-13-11 | DWG. No.: 044740-2 | | | |
| DRAWN BY: RRH | SHEET 2 | OF 2 | | | |

BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|--------|----------|-----------------------------|-----|---------|-----|
| 1 | 303626 | PLUG, 3 PIN (DEUTSCH) | 1 | | STK |
| 043425 | 2 304706 | WEDGE LOCK, 3 SOCKET | 1 | | SUP |
| 052549 | 2 308576 | LOCK, 3 SOCKET TRIANGLE KEY | 1 | | STK |
| 3 | 304471 | SEALING PLUG | 3 | | SUP |



VIEW B-B



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TOLERANCE: UNLESS OTHERWISE SPECIFIED

| | | |
|------------------|-----------------|--------------|
| 3 PLACES ± 0.010 | 2 PLACES ± 0.03 | ANGULAR ± 1° |
|------------------|-----------------|--------------|

NAME OF JOB:

DRAWING TITLE: CONNECTOR, TERMINATING, PLUG, 3CON

| REVISIONS | | | |
|-----------|-------------|------|----------|
| REV | DESCRIPTION | DATE | APPROVED |
| A | | | |

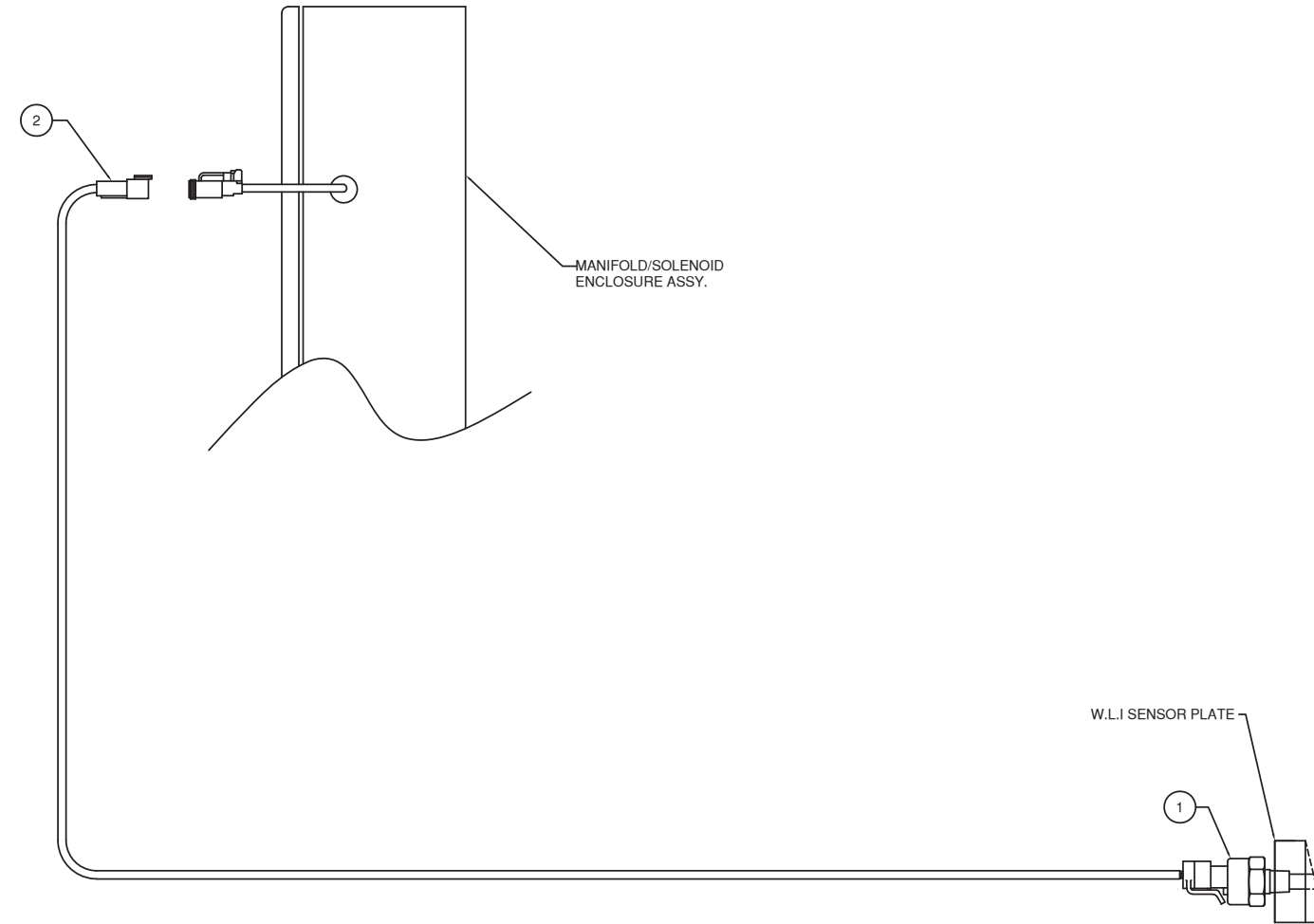
SCALE: NONE DATE: 11-01-09

DRAWN BY: DE SHEET 1 OF 1

DWG. No.: 043425

BILL OF MATERIAL

| ITEM | Part No. | Description | Qty. | Ref. No. | Wt. |
|------|----------|---------------------------|------|----------|-----|
| 1 | 303822 | TANK VOLUME SENSOR | 1 | | STK |
| 2 | 039768 | WATER LEVEL INDICATOR 20' | 1 | 039594 | REF |
| 3 | | | | | |



913

SECTIONAL SIDE VIEW

SEE WELDON DRAWING FOR W.L.I SENSOR PLATE LOCATION.

| REVISIONS | | | |
|-----------|--------------------------------|-----------|-------|
| REV | DESCRIPTION | DATE | ECR |
| A | ITEM 6 WAS 043526 (REF 043525) | Apr-28-10 | RRH |
| B | REMOVED WIRING DIAGRAM | Nov-02-10 | DMG |
| C | REMOVED 024635 & 041461 | Dec-13-10 | 11007 |
| D | ADDED CALIBRATION UNIT #3 | Mar-07-11 | DMG |
| E | CHGD. CABLE TO STK. 039594 | Sep-22-11 | DMG |
| F | 303824 -> 308222 | Mar-01-17 | 17015 |
| G | RMV 308222 | 16-APR-17 | 18027 |

PRODUCED FROM 038517



700 USNA Rd. NE
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TOLERANCE: UNLESS OTHERWISE SPECIFIED

3 PLACES ± 0.010 2 PLACES ± 0.03 ANGULAR ± 1°

DRAWING TITLE: WATER LEVEL INDICATOR W/GAUGE IN CAB

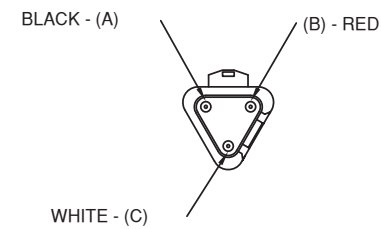
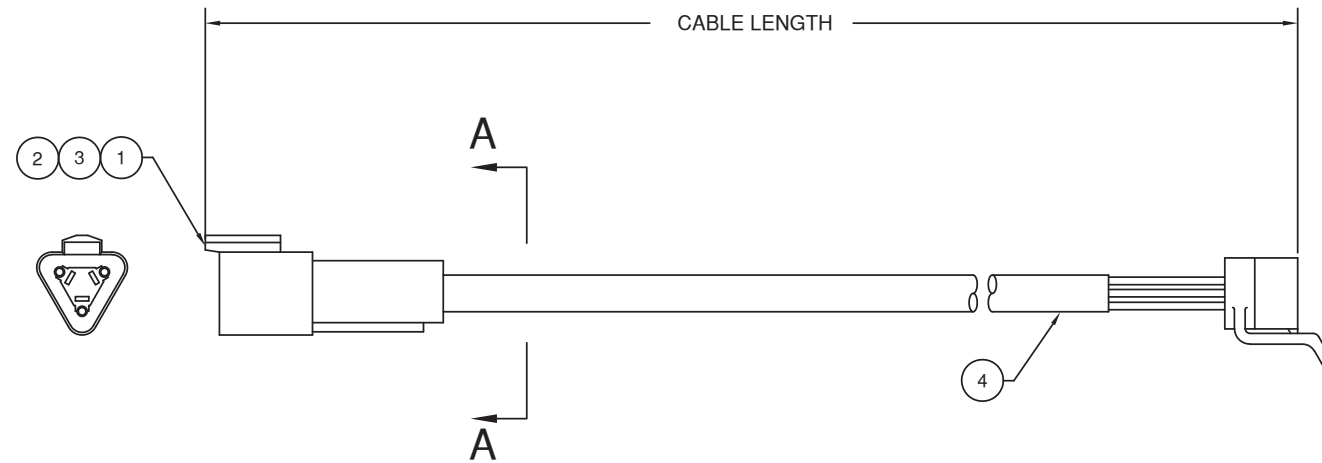
SCALE: NONE DATE: Feb-11-10 DWG. No. 043627

DRAWN BY: DMG SHEET 1 OF 1

BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|-------------------|--------------|-------------------|---------------------------------------|--------------|----------------|
| CABLE ASSY | 1 | 304464 | RECEPTACLE, 3 PIN (DEUTSCH) | 1 | STK |
| | 2 | 304465 | WEDGE LOCK, 3 PIN | 1 | SUP |
| | 3 | 303366 | PIN, MALE, 16-18 GA. | 3 | SUP |
| 039594 | 4 | 303825 | WLI CABLE, 3 COND' X 30ft. | 1 | STK |
| 039767 | 4 | 304272 | WLI CABLE, 3 COND' X 12ft. | 1 | STK |
| 039768 | 4 | 304591 | WLI CABLE, 3 COND' X 20ft. | 1 | STK |
| 039769 | 4 | 304592 | WLI CABLE, 3 COND' X 50ft. | 1 | STK |
| 041485 | 4 | 304272 | WLI CABLE, 3 COND' X 4ft. | 1 | STK |

OBSOLETE



VIEW A-A



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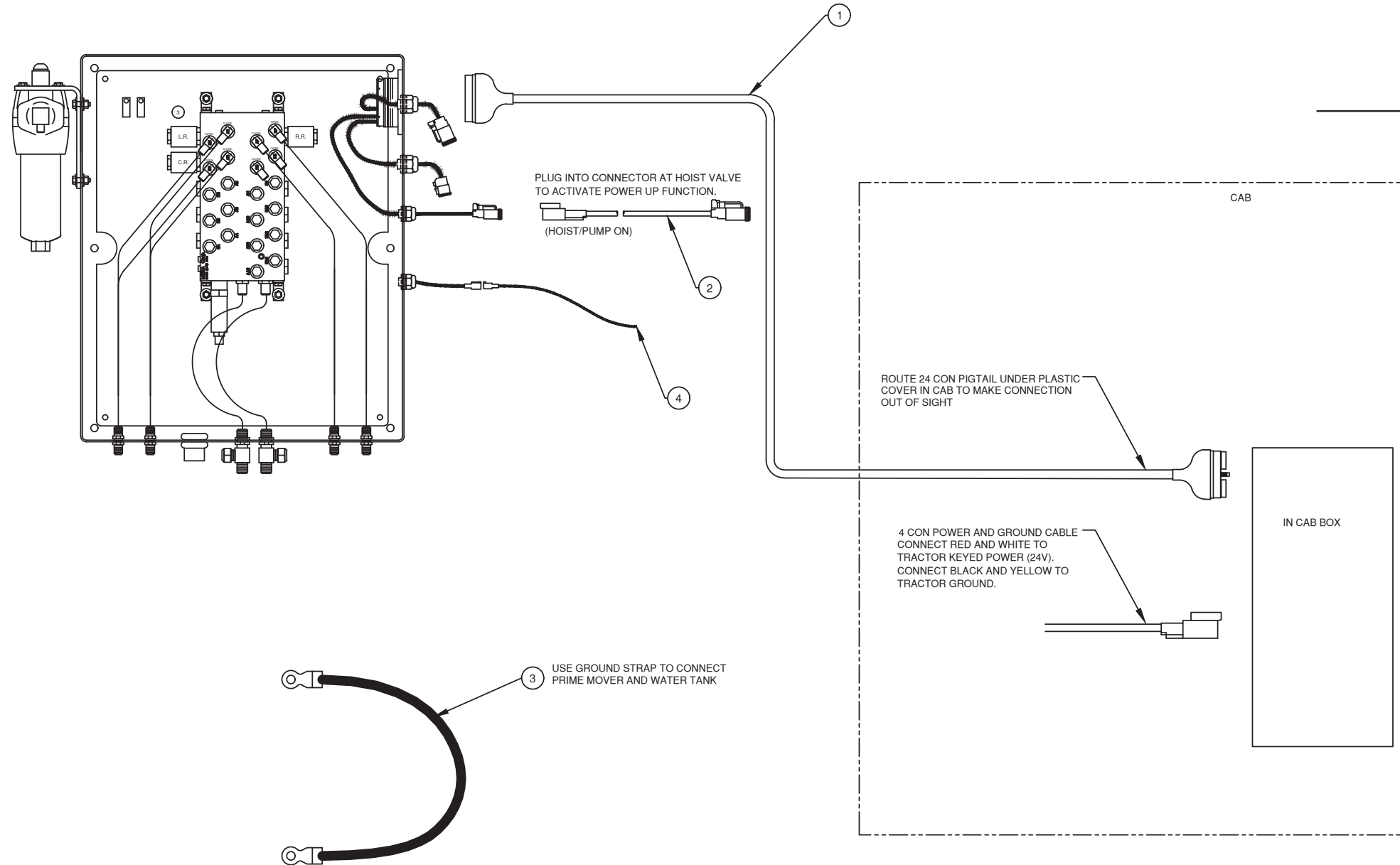
TOLERANCE: UNLESS OTHERWISE SPECIFIED
 3 PLACES ± 0.010 2 PLACES ± 0.03 ANGULAR ± 1°

| REVISIONS | | | | 3 COND. 30ft. CABLE ASSY, STRAIGHT AIR BOX | | |
|-----------|---------------------------|----------|----------|--|--------------|----------|
| REV | DESCRIPTION | DATE | APPROVED | NAME OF JOB: | DATE: | DWG. No. |
| A | ITEM 4 WAS 304678 | 08/17/06 | PRF | DRAWING TITLE: | 10-06-05 | 039594 |
| B | CHANGED GREEN WIRE TO RED | 04/11/08 | RED | SCALE: | 10-06-05 | |
| C | MADE 12' OBSOLETE | 05/14/08 | TCS | DRAWN BY: | SHEET 1 OF 1 | |

NOTE: USE ITEMS 5 THRU 9 AS NEEDED TO SECURE CABLING

916

| BILL OF MATERIAL | | | | | | |
|------------------|----------|-----------------------|---------------------------------|---------|--------|-----|
| No. | Part No. | PART NAME | QTY | REF No. | WT. | |
| 052403 | 1 | 051890 | CABLE ASM, 16' 24 PIN | 1 | 051837 | REF |
| | 2 | 041196 | HOIST EXTENSION CABLE, 25' | 1 | | STK |
| | 3 | 042073 | GROUND STRAP, 6' | 1 | | STK |
| | 4 | 046086 | GROUND STRAP, 20' | 1 | | STK |
| 052404 | 1 | 051839 | CABLE ASM, 25' 24 PIN | 1 | 051837 | REF |
| | 2 | 041196 | HOIST EXTENSION CABLE, 25' | 1 | | STK |
| | 3 | 042073 | GROUND STRAP, 6' | 1 | | STK |
| | 4 | 046086 | GROUND STRAP, 20' | 1 | | STK |
| 052405 | 1 | 051839 | CABLE ASM, 25' 24 PIN | 1 | 051837 | REF |
| | 2 | 041532 | HOIST EXTENSION CABLE, 45' | 1 | 041196 | REF |
| | 3 | 042073 | GROUND STRAP, 6' | 1 | | STK |
| | 4 | 046086 | GROUND STRAP, 20' | 1 | | STK |
| 052406 | 1 | 052399 | CABLE ASM, 35' 24 PIN | 1 | 051837 | REF |
| | 2 | 041196 | HOIST EXTENSION CABLE, 25' | 1 | | STK |
| | 3 | 043724 | GROUND STRAP, 20' | 1 | 042073 | STK |
| | 4 | 048495 | GROUND STRAP, 35' | 1 | 046086 | REF |
| 053426 | 1 | 052399 | CABLE ASM, 35' 24 PIN | 1 | 051837 | REF |
| | 2 | | | | | |
| | 3 | 043724 | GROUND STRAP, 20' | 1 | 042073 | STK |
| | 4 | 048495 | GROUND STRAP, 35' | 1 | 046086 | REF |
| 061443 | 1 | 054133 | CABLE ASM, 21' 24 PIN TO 40 PIN | 1 | | REF |
| | 2 | 041196 | HOIST EXTENSION CABLE, 25' | 1 | | STK |
| | 3 | 043724 | GROUND STRAP, 20' | 1 | 042073 | STK |
| | 4 | | | | | |
| 5 | 305251 | CABLE TIE, 12" X 100 | 1 | | SPLY | |
| 6 | 049008 | STANDOFF M10X1.5X25MM | 10 | 024634 | STK | |
| 7 | 309407 | HEAVY DUTY MOUNT | 10 | | SPLY | |
| 8 | 355264 | WASHER, M10 | 10 | | SPLY | |
| 9 | 355475 | HHCS M10X1.5X25MM | 10 | | SPLY | |



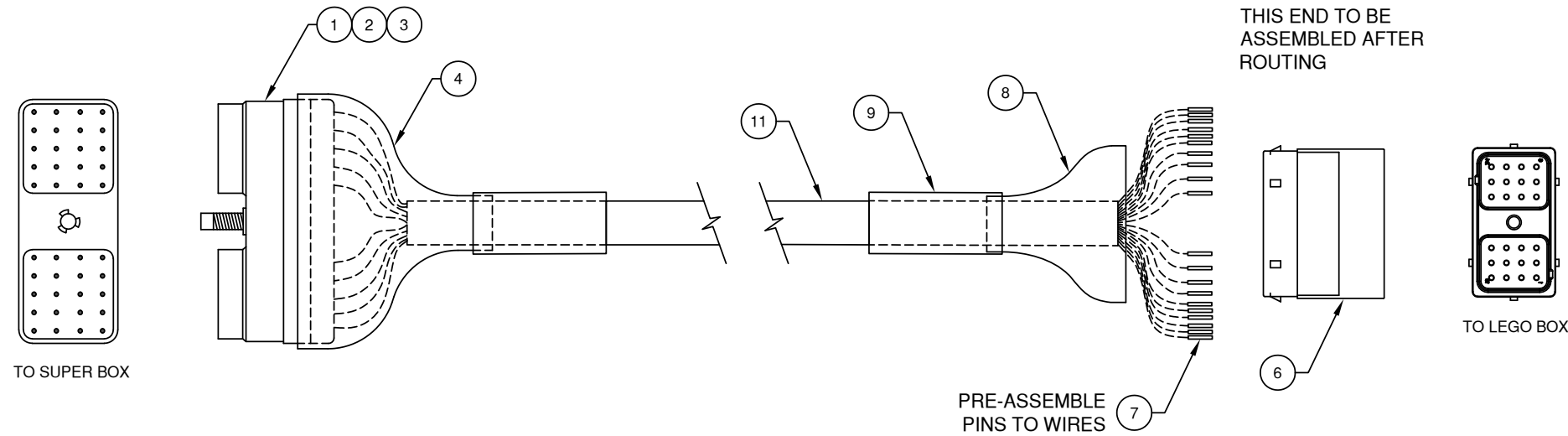
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| REVISIONS | | | | TOLERANCE: UNLESS OTHERWISE SPECIFIED | | |
|-----------|------------------|-----------|----------|---------------------------------------|-----------------|--------------|
| REV | DESCRIPTION | DATE | APPROVED | 3 PLACES ± 0.010 | 2 PLACES ± 0.03 | ANGULAR ± 1° |
| A | ITEM 1 WAS STOCK | 11-6-17 | CSB | NAME OF JOB: ELECTRO-HYD SCS BASE KIT | | |
| B | ADDED ITEM 4 | 11-14-17 | CSB | DRAWING TITLE: CABLE KIT | | |
| C | ADDED 053426 | 8-6-18 | CSB | SCALE: NTS | DATE: 10-4-17 | DWG. No.: |
| D | 305238->309407 | 20-DEC-23 | TCS | DRAWN BY: DSD | SHEET 1 OF 1 | 052403 |

BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|-----|----------|--------------------------------|-----|---------|-----|
| 1 | 305026 | 40 PIN CONNECTOR, PLUG | 1 | | STK |
| 2 | 304288 | SOCKET, FEMALE, (DEUTSCH) | 24 | | SUP |
| 3 | 304471 | PIN, BLANK (DEUTSCH) | 16 | | SUP |
| 4 | 305024 | BOOT, 40 PIN | 2 | | STK |
| 6 | 306152 | RECEPTACLE, 24 PIN, DRC SERIES | 1 | | STK |
| 7 | 303366 | PIN, MALE, DEUTSCH | 24 | | SUP |
| 8 | 306153 | BOOT 24 | 1 | | STK |
| 9 | 305267 | HEAT SHRINK 4" | 2 | | SUP |
| 10 | | | | | |
| 11 | 308301 | CABLE, 18GA 25CON X 21'-0" | 1 | | SUP |



| 40 CONDUCTOR CONNECTOR | | |
|------------------------|------------|-----------------------------|
| PIN | WIRE COLOR | FUNCTION |
| 1 | BLACK | PUMP - (SOL. DRIVER) |
| 2 | RED | PUMP + |
| 3 | BLUE | WORK LIGHT |
| 4 | BLK/RED | AUX REGULATED |
| 5 | | |
| 6 | ORANGE | LT VSS (OPEN) |
| 7 | | |
| 8 | YELLOW | LT REAR (OPEN) |
| 9 | | |
| 10 | BROWN | LT CENTER REAR (OPEN) |
| 11 | | |
| 12 | RED/BLK | RT CENTER REAR (OPEN) |
| 13 | | |
| 14 | BLU/BLK | RT REAR (OPEN) |
| 15 | | |
| 16 | YEL/RED | MONITOR (RIGHT) |
| 17 | BRN/RED | MONITOR (DOWN) |
| 18 | BLK/BLU | MONITOR (LEFT) |
| 19 | RED/BLU | MONITOR (UP) |
| 20 | ORG/BLU | MONITOR BFV (OPEN) |
| 21 | YEL/BLU | MONITOR BFV (CLOSED) |
| 22 | ORG/BLK | RT VSS (OPEN) |
| 23 | | |
| 24 | | |
| 25 | | |
| 26 | ORG/RED | WATER LEVEL GAUGE (WHITE) |
| 27 | | |
| 28 | BLU/RED | WLI POWER |
| 29 | | |
| 30 | YEL/BLK | DUMP BAR BFV (OPEN) |
| 31 | | |
| 32 | BRN/BLK | DRAIN BFV (OPEN) |
| 33 | | |
| 34 | BRN/BLU | ADJUSTABLE NOZZLE (STEAM) |
| 35 | BLK/ORG | ADJUSTABLE NOZZLE (FOG/FAN) |
| 36 | RED/ORG | FOAM VALVE (OPEN) |
| 37 | BLU/ORG | FOAM VALVE (CLOSED) |
| 38 | | |
| 39 | | |
| 40 | | |

| 24 CONDUCTOR CONNECTOR | | |
|------------------------|------------|---------------------|
| PIN | WIRE COLOR | FUNCTION |
| 1 | BLACK | (SOLENOID -) |
| 2 | RED | (SOLENOID +) |
| 3 | BLUE | WORK LIGHT |
| 4 | ORANGE | LEFT VSS |
| 5 | YELLOW | LEFT REAR |
| 6 | BROWN | LEFT REAR CENTER |
| 7 | RED/BLK | RIGHT REAR CENTER |
| 8 | BLU/BLK | RIGHT REAR |
| 9 | ORG/BLK | RIGHT VSS |
| 10 | YEL/BLK | DUMP BAR BFV |
| 11 | BRN/BLK | DRAIN BFV |
| 12 | BLK/RED | AUX REGULATED |
| 13 | BLU/RED | WLI POWER |
| 14 | ORG/RED | WLI SIGNAL |
| 15 | YEL/RED | MONITOR RIGHT |
| 16 | BRN/RED | MONITOR DOWN |
| 17 | BLK/BLU | MONITOR LEFT |
| 18 | RED/BLU | MONITOR UP |
| 19 | ORG/BLU | MONITOR BFV OPEN |
| 20 | YEL/BLU | MONITOR BFV CLOSE |
| 21 | BRN/BLU | ADJ. NOZZLE STREAM |
| 22 | BLK/ORG | ADJ. NOZZLE FOG/FAN |
| 23 | RED/ORG | FOAM OPEM |
| 24 | BLU/ORG | FOAM CLOSE |
| N/A | YEL/ORG | NOT USED |

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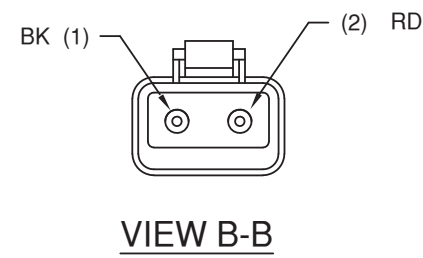
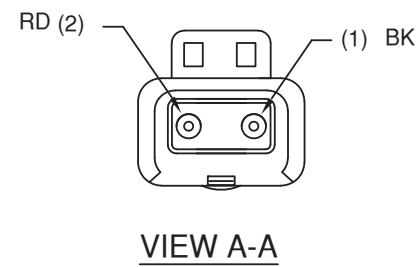
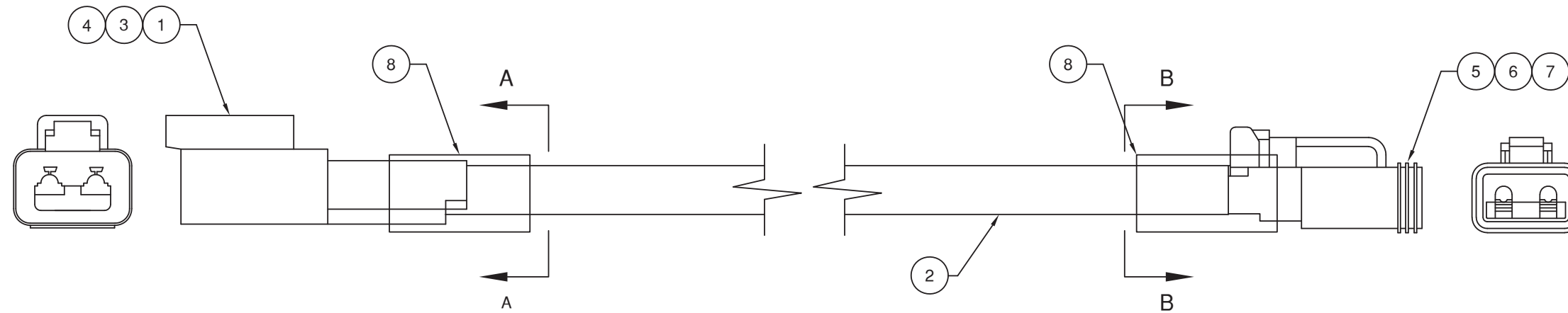
TOLERANCE: UNLESS OTHERWISE SPECIFIED
3 PLACES ± 0.010 2 PLACES ± 0.03 ANGULAR ± 1°

NAME OF JOB: IN CAB CONTROL BOX
DRAWING TITLE: CABLE, 24 CON. RECP. TO 40 CON. PLUG, ONE END LOOSE

| REVISIONS | | | | SCALE: | DATE: | DWG. No.: |
|-----------|----------------------------------|----------|----------|--------|--------------|-----------|
| REV | DESCRIPTION | DATE | APPROVED | NONE | 05/15/19 | 054133 |
| A | CHG'D PIN 27 TO PIN 28 WLI POWER | 09/25/24 | JAL | DE | SHEET 1 OF 1 | |

BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|--------|----------|-----------------------------------|-----|---------|------|
| 1 | 304284 | RECEPTACLE, 2 PIN (DEUTSCH) | 1 | | STK |
| 041196 | 2 309200 | CABLE, 2 COND' 18GA | 25' | | SPLY |
| 041405 | 2 309200 | CABLE, 2 COND' 18GA | 30' | | SPLY |
| 041532 | 2 309200 | CABLE, 2 COND' 18GA | 45' | | SPLY |
| 044908 | 2 309200 | CABLE, 2 COND' 18GA | 50' | | SPLY |
| 045987 | 2 309200 | CABLE, 2 COND' 18GA | 5' | | SPLY |
| 047397 | 2 309200 | CABLE, 2 COND' 18GA | 17' | | SPLY |
| 056449 | 2 309200 | CABLE, 2 COND' 18GA | 18' | | SPLY |
| 3 | 304289 | PIN, MALE, (DEUTSCH) | 2 | | SPLY |
| 4 | 304384 | SECONDARY LOCK, 2 PIN | 1 | | SPLY |
| 5 | 304285 | PLUG, 2 PIN (DEUTSCH) | 1 | | STK |
| 6 | 303380 | SOCKET 16-20ga, FEMALE, (DEUTSCH) | 2 | | SPLY |
| 7 | 304385 | SECONDARY LOCK, 2 SOCKET | 1 | | SPLY |
| 8 | 305267 | HEAT SHRINK 1" X 6" | 2 | | SPLY |



| REV | DESCRIPTION | DATE | APPROVED |
|-----|-------------------------------|----------|-------------|
| A | ADDED CABLE 044908 50' | 4-25-11 | DMG |
| B | ADDED CABLE 045987 5' | 2-28-12 | RRH |
| C | ADDED CABLE 047397 17' | 6-26-13 | RRH |
| D | ADDED 305627 | 11-19-19 | CSB |
| E | 300484(14GA) NOW 309200(18GA) | 1-24-20 | 19009,20012 |
| F | ADD CABLE 056449 18' | 3-29-21 | JTI |

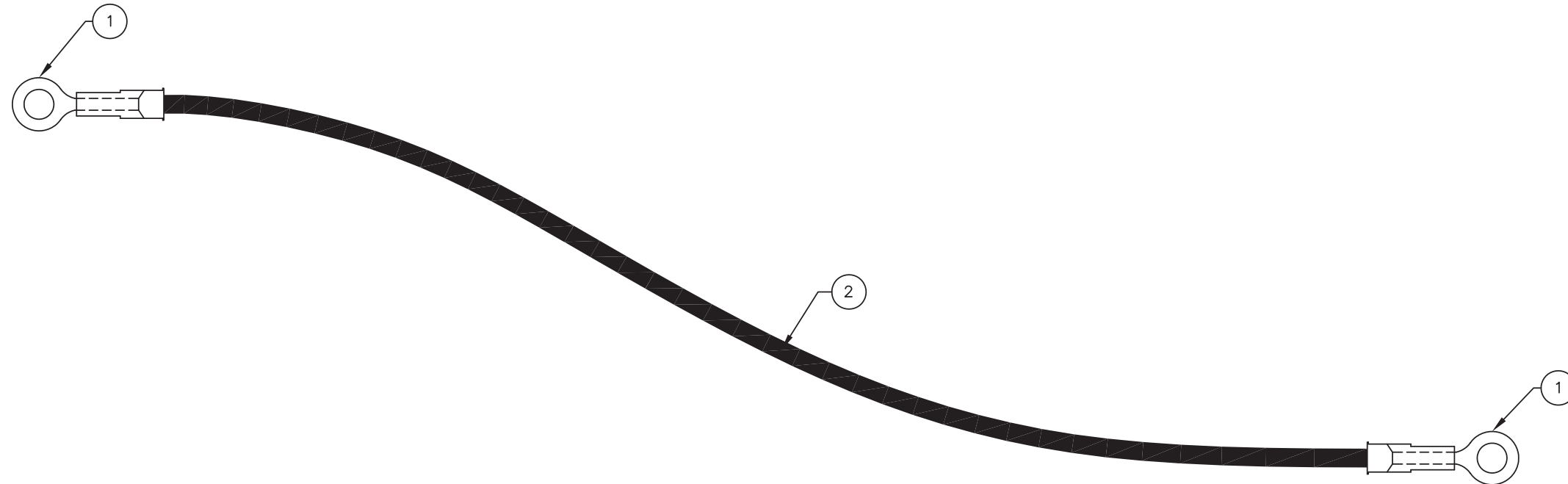
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NAME OF JOB: EXTENSION CABLE ASSY.
DRAWING TITLE: CABLE, HOIST
SCALE: NONE DATE: 08-17-07 DWG. No. 041196
DRAWN BY: DE SHEET 1 OF 1

| | NO. | QTY. | PART NO. | DESCRIPTION | REF. NO. | WEIGHT |
|--------|-----|------|----------|--|----------|--------|
| | 1 | 2 | 305228 | RING TERMINAL, 6-9ga WITH 3/8" STUD SIZE | 305217 | SUP |
| 042073 | 2 | 1 | 305257 | SINGLE CON WIRE, 6ga BLACK X 6' | 303074 | SUP |
| 043724 | 2 | 1 | 305257 | SINGLE CON WIRE, 6ga BLACK X 20' | 303074 | SUP |
| | 4 | | | | | |



| REVISIONS | | | |
|-----------|--------------|---------|----------|
| REV | DESCRIPTION | DATE | APPROVED |
| A | ADDED 043724 | 3-12-10 | RRH |

| | | | | | | | | |
|---|---|-------------|-------------|--------------|-----|---------|--|----------|
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| | | DATE DRAWN | DRAWN BY | NO. | FOR | TO SHOP | | DWG. NO. |
| | | 6-25-08 | RRH | | | | | 042073 |
| | | DATE APPRV. | APPRV. BY | | | | | |

NOTES:

- SWITCH COVERS ARE STOCKED.
- SEE REFERENCE CODE ON COVER SHEET FOR UNIT OPTIONS.
- FOR CHARACTERS 1 THRU 5, CODE REPRESENTS IF SWITCH IS PRESENT OR REMOVED AND REPLACED WITH COVER (ITEM 3).

EXAMPLES:

CHARACTER 2

- A- SYSTEM WITH FOAM AGENT AND FOG/STREAM.
- B- SYSTEM WITH JOYSTICK NO FOAM, AND NO FOG/STREAM.
- C- SYSTEM WITH NO FOAM, BUT HAS FOG/STREAM.
- D- NO JOYSTICK SO THEREFORE NO SWITCHES.

CHARACTER 4

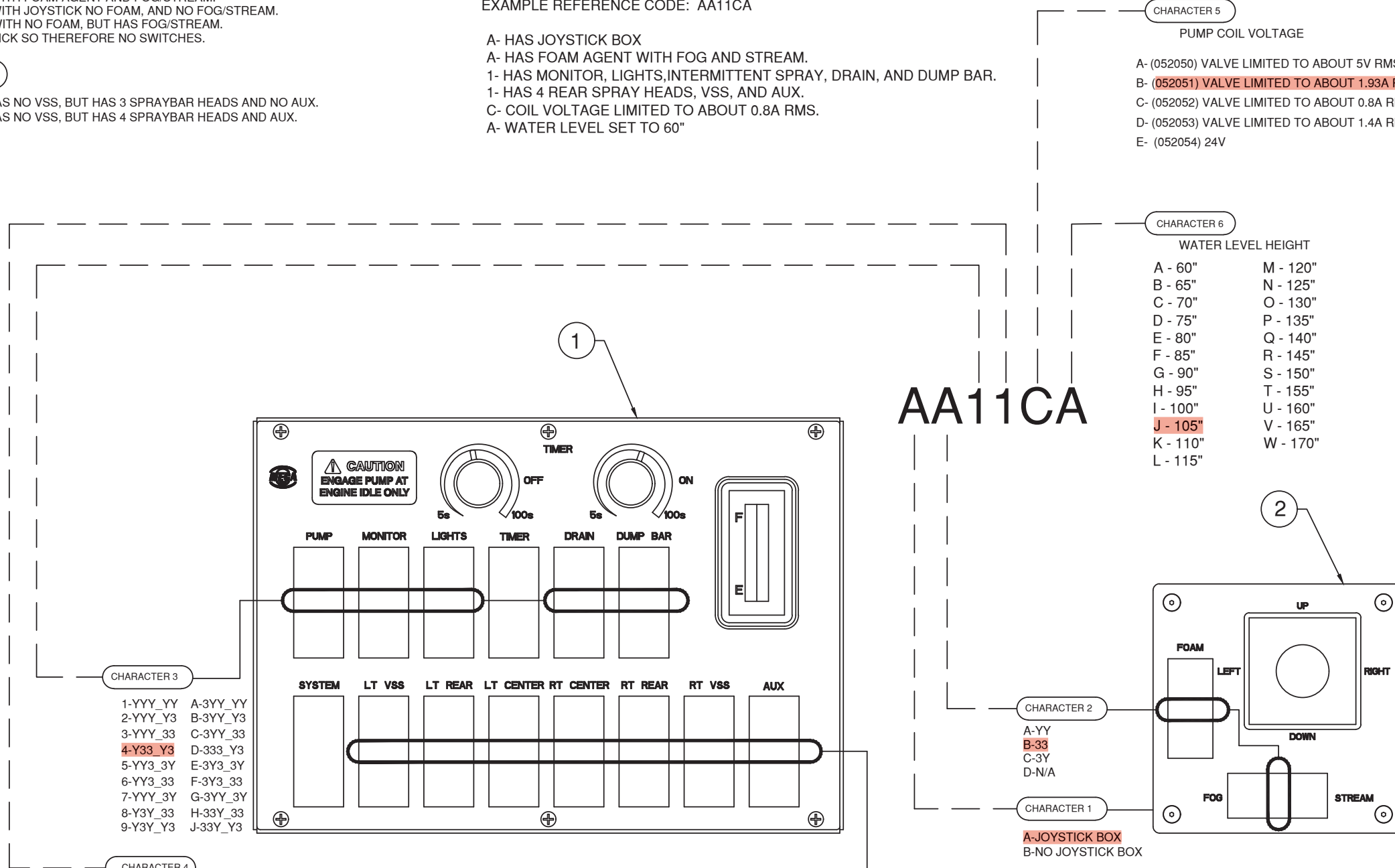
- 3-SYSTEM HAS NO VSS, BUT HAS 3 SPRAYBAR HEADS AND NO AUX.
- 4-SYSTEM HAS NO VSS, BUT HAS 4 SPRAYBAR HEADS AND AUX.

EXAMPLE REFERENCE CODE: AA11CA

- A- HAS JOYSTICK BOX
- A- HAS FOAM AGENT WITH FOG AND STREAM.
- 1- HAS MONITOR, LIGHTS, INTERMITTENT SPRAY, DRAIN, AND DUMP BAR.
- 1- HAS 4 REAR SPRAY HEADS, VSS, AND AUX.
- C- COIL VOLTAGE LIMITED TO ABOUT 0.8A RMS.
- A- WATER LEVEL SET TO 60"

| BILL OF MATERIAL | | | | | |
|------------------|----------|--------------------------|-----|---------|-----|
| No. | Part No. | PART NAME | QTY | REF No. | WT. |
| 1 | 051380 | SWITCH BOX, LEGO | 1 | | STK |
| 2 | 051385 | JOY STICK BOX, LEGO | 1 | | REF |
| 3 | 303128 | COVER, SWITCH | AR | | STK |
| 4 | CHAR 5 | CONFIG INST, DRIVER CARD | 1 | 052050 | REF |

918



- CHARACTER 3
- | | |
|----------|----------|
| 1-YYY_YY | A-3YY_YY |
| 2-YYY_Y3 | B-3YY_Y3 |
| 3-YYY_33 | C-3YY_33 |
| 4-Y33_Y3 | D-333_Y3 |
| 5-YY3_3Y | E-3Y3_3Y |
| 6-YY3_33 | F-3Y3_33 |
| 7-YYY_3Y | G-3YY_3Y |
| 8-Y3Y_33 | H-33Y_33 |
| 9-Y3Y_Y3 | J-33Y_Y3 |

- CHARACTER 4
- 1-YYYYYYY
 - 2-3YYYY33
 - 3-3 HEADS USE 051885
 - 4-3YYYY3Y
 - 5-3 HEADS USE 051885
 - 6-YYYYY3
 - 7-3 HEADS USE 051885

CHARACTER 5

- PUMP COIL VOLTAGE
- A- (052050) VALVE LIMITED TO ABOUT 5V RMS
 - B- (052051) VALVE LIMITED TO ABOUT 1.93A RMS
 - C- (052052) VALVE LIMITED TO ABOUT 0.8A RMS
 - D- (052053) VALVE LIMITED TO ABOUT 1.4A RMS
 - E- (052054) 24V

CHARACTER 6

- WATER LEVEL HEIGHT
- | | |
|----------|----------|
| A - 60" | M - 120" |
| B - 65" | N - 125" |
| C - 70" | O - 130" |
| D - 75" | P - 135" |
| E - 80" | Q - 140" |
| F - 85" | R - 145" |
| G - 90" | S - 150" |
| H - 95" | T - 155" |
| I - 100" | U - 160" |
| J - 105" | V - 165" |
| K - 110" | W - 170" |
| L - 115" | |

AA11CA

- CHARACTER 2
- A-YY
 - B-33
 - C-3Y
 - D-N/A
- CHARACTER 1
- A-JOYSTICK BOX
 - B-NO JOYSTICK BOX

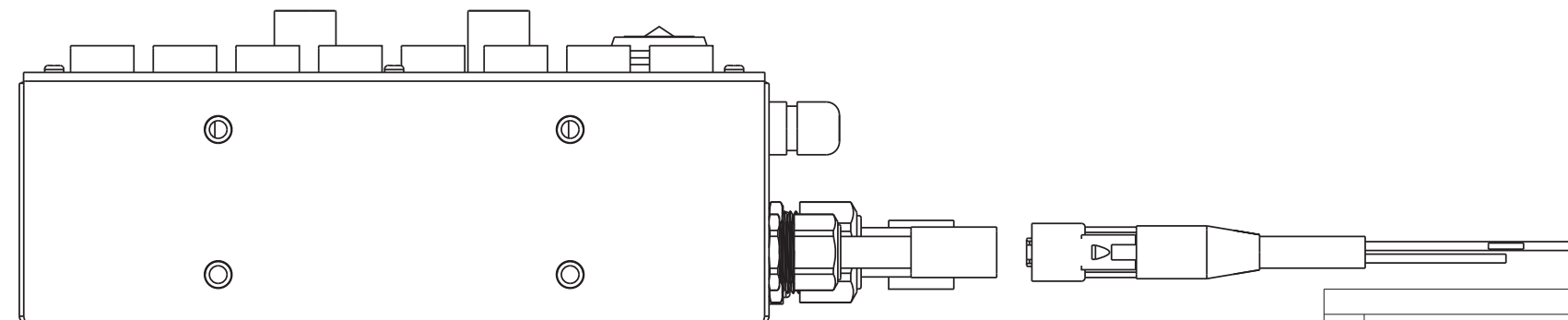
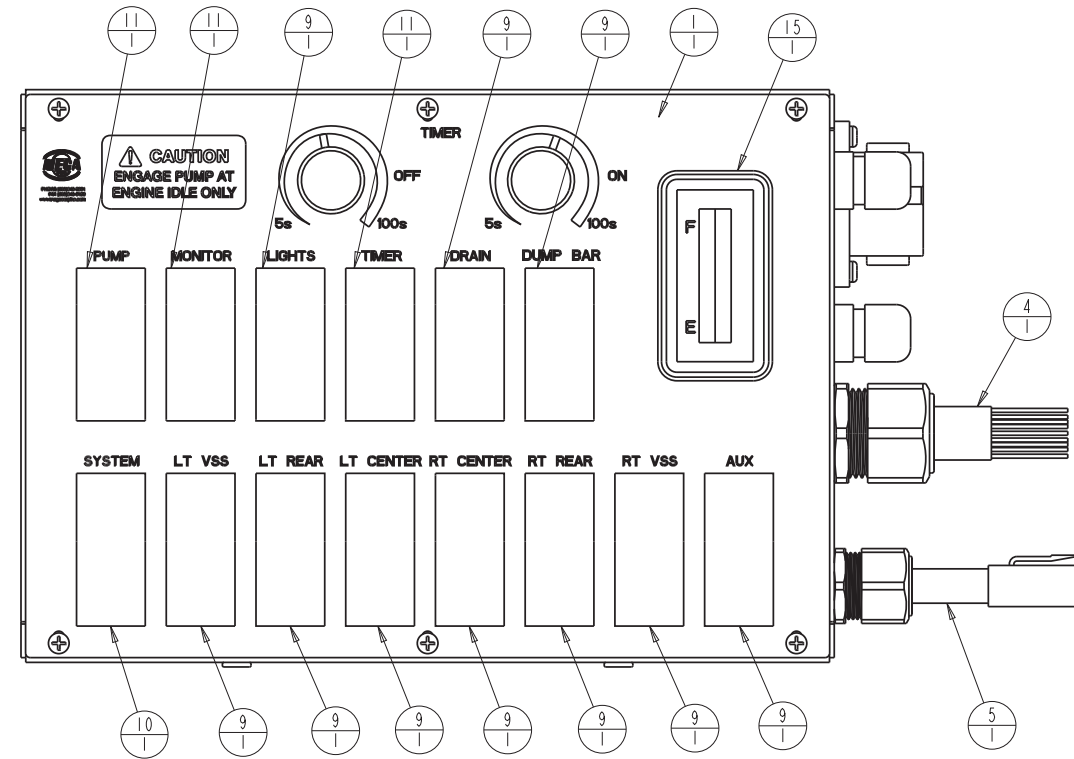
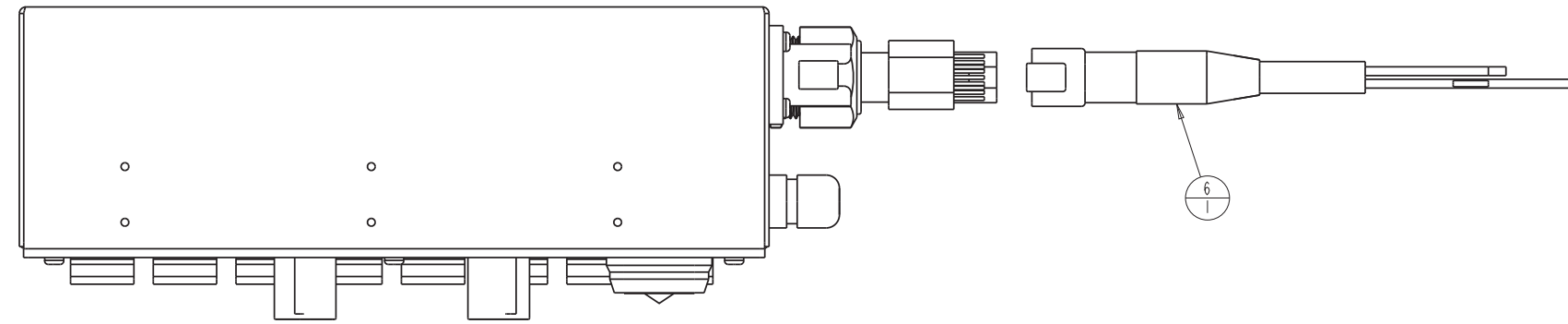
| REV | DESCRIPTION | DATE | APPROVED |
|-----|---|------------|----------|
| A | REMOVED TIMER SWITCH FROM CODE | 7-19-17 | LAP/RRH |
| B | ADDED 052050 | 21-JULY-17 | TCS |
| C | CORRECTED COVER # FROM 305409 TO 303128 | 8/25/17 | LAP |
| D | ADDED CHARACTER 6 | 12-17-18 | 18051 |
| E | ADDED "NO PUMP" OPTIONS TO CHAR 3 | 10-12-23 | DSD |

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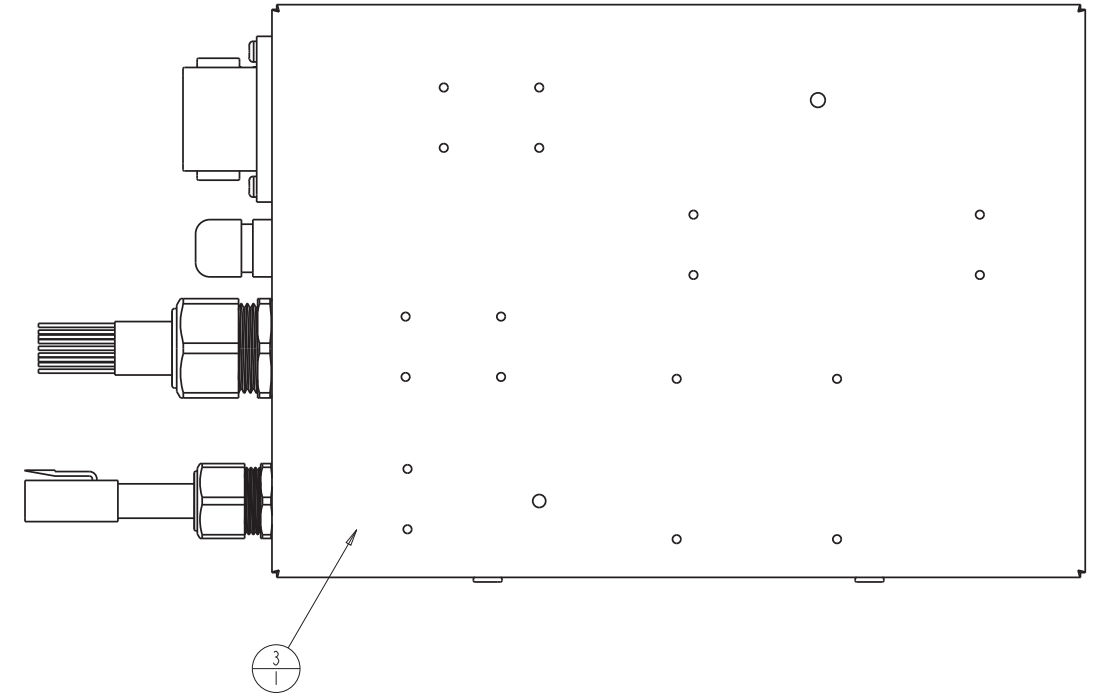
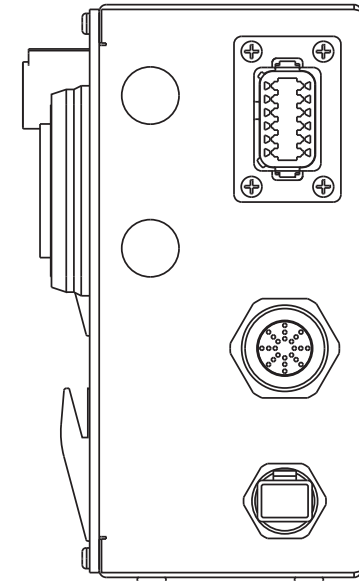
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 3 PLACES ± 0.010 2 PLACES ± 0.03 ANGULAR ± 1°

NAME OF JOB: SWITCH AND JOY STICK BOX
 DRAWING TITLE: ALL WATER
 SCALE: FULL DATE: 05-18-17 DWG. No.: 051856
 DRAWN BY: LAP SHEET 1 OF 1



| ITEM | PART NO. | PART NAME | QTY | REF NO. | IND. | WT. |
|------|----------|---|-----|---------|------|------|
| 1 | 051382 | COVER PANEL, LEGO CONTROL BOX, 4 HEAD | 1 | | | STK |
| 2 | 051578 | SWITCH BOX SCHEMATIC, LEGO CONTROLS, 4 HEAD | 1 | | | REF |
| 3 | 051828 | BOX, LEGO CONTROL, ONE PIECE | 1 | | | STK |
| 4 | 051836 | CABLE, 25 CON 18 GAUGE | 1 | | | REF |
| 5 | 051840 | CABLE, 4 CON 16 GAUGE | 1 | | | REF |
| 6 | 051841 | 4 CON EXTENSION POWER CABLE | 1 | | | REF |
| 7 | 300083 | FUSE HOLDER 15 AMP | 2 | | | STK |
| 8 | 304751 | TIMER | 1 | | | STK |
| 9 | 305019 | SWITCH, SPST, GREEN LIGHT | 10 | | | STK |
| 10 | 305020 | SWITCH, SPST, WHITE LIGHT | 1 | | | STK |
| 11 | 305021 | SWITCH, DPDT, NO LIGHT | 3 | | | STK |
| 12 | 305028 | POTENTIOMETER/ THERMO ASSY. | 2 | | | STK |
| 13 | 305029 | POTENTIOMETER KNOB | 2 | | | STK |
| 14 | 305189 | RESISTOR, 4.99K 1/4 WT 1% | 2 | | | STK |
| 15 | 305967 | LEVEL INDICATOR SM. | 1 | | | 0.6 |
| 16 | 308193 | DRIVER CARD, SINGLE OUTPUT | 1 | | | STK |
| 17 | 308202 | STRAIN RELIEF, HEYCO M4340 | 1 | | | STK |
| 18 | 308293 | CONNECTOR 12 CON DEUTCH DT04-12PA-BL08 | 1 | | | STK |
| 19 | 308298 | STRAIN RELIEF, HEYCO M4344 | 1 | | | STK |
| 20 | 308312 | 12 PIN DUST CAP | 1 | | | STK |
| 21 | 353088 | NUT, KEP 10-32 | 1 | | | SPLY |
| 22 | 355459 | NUT, 6-32 LOCKING | 4 | | | SUP |
| 23 | 355460 | NUT, KEP 8-32 | 1 | | | SPLY |
| 24 | 355464 | BUTTON HEAD SCREW 6-32 X 1/2" | 10 | | | SUP |
| 25 | 355466 | CRADLE, TIE WRAP, MOUNT | 9 | | | SUP |
| 26 | 355949 | NUT, 4-40 KEPS | 22 | | | SUP |
| 27 | 355950 | STAND-OFF 3/8", 4-40 | 4 | | | SUP |

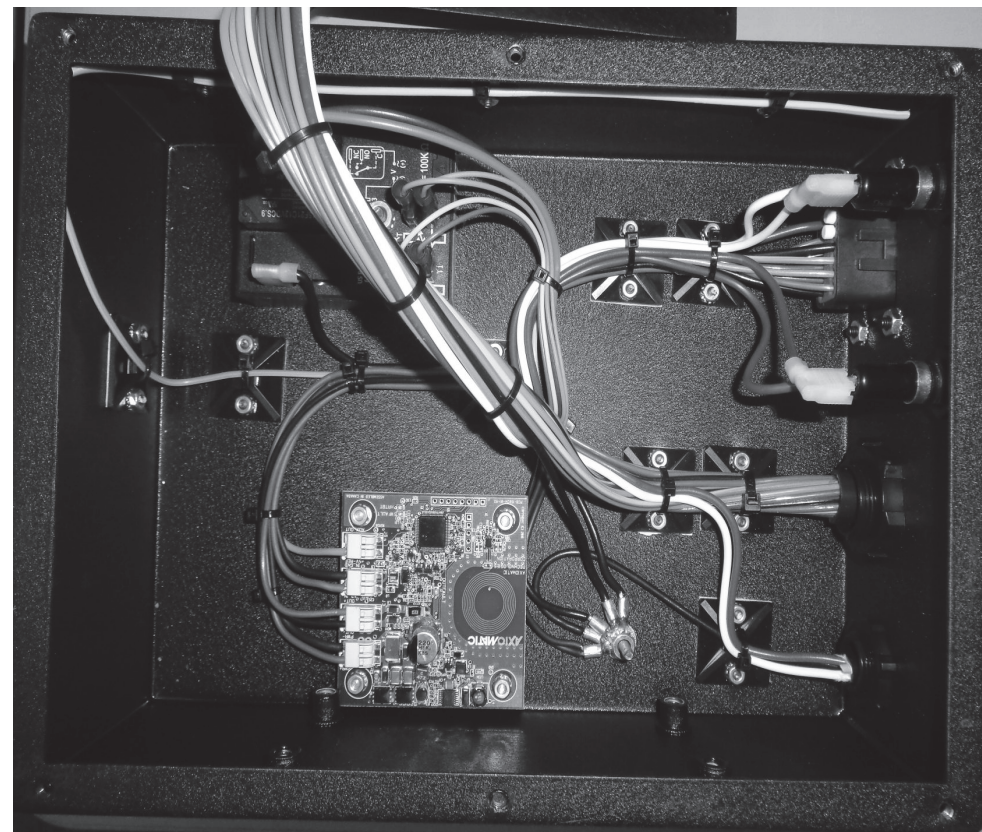
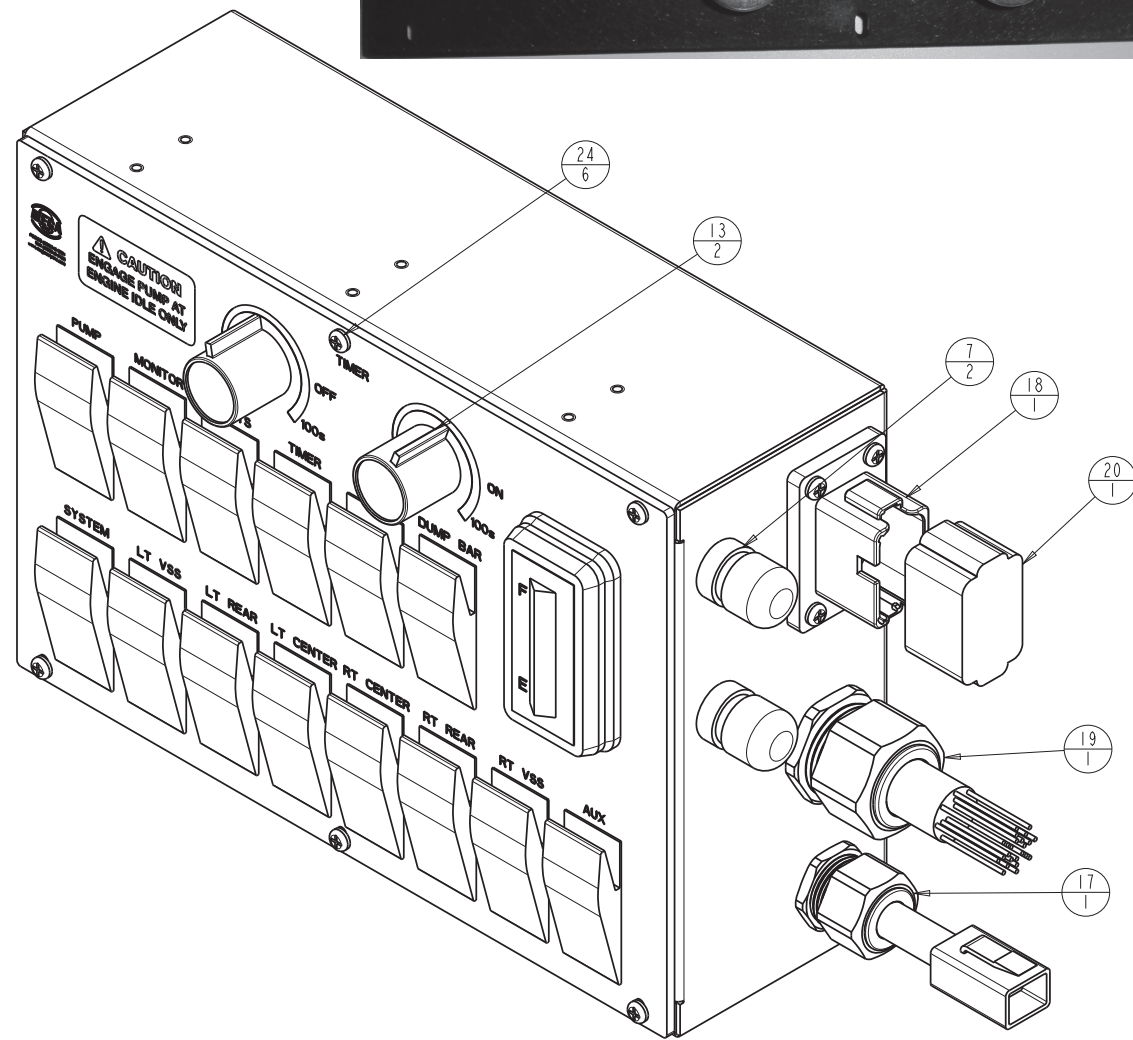
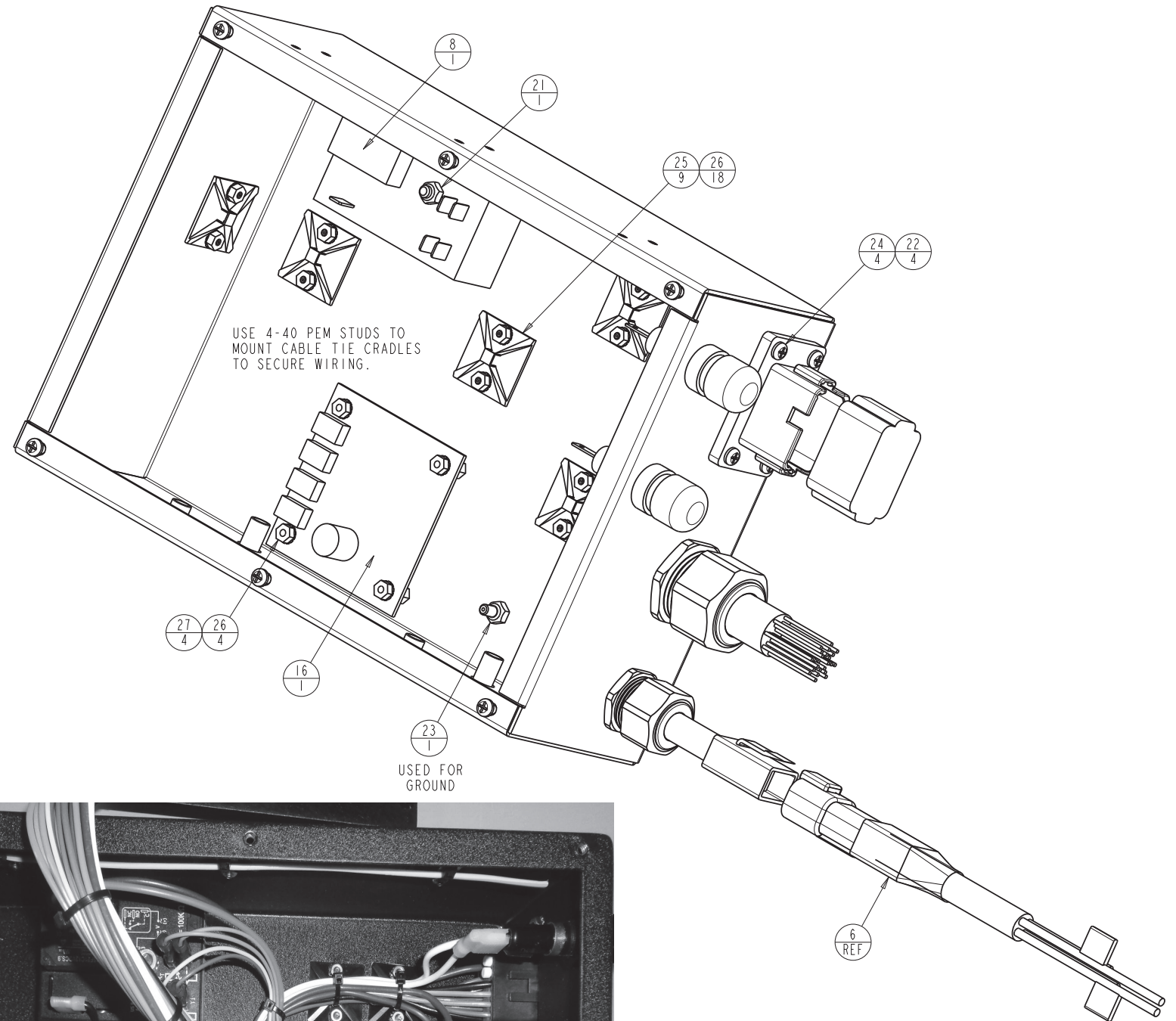
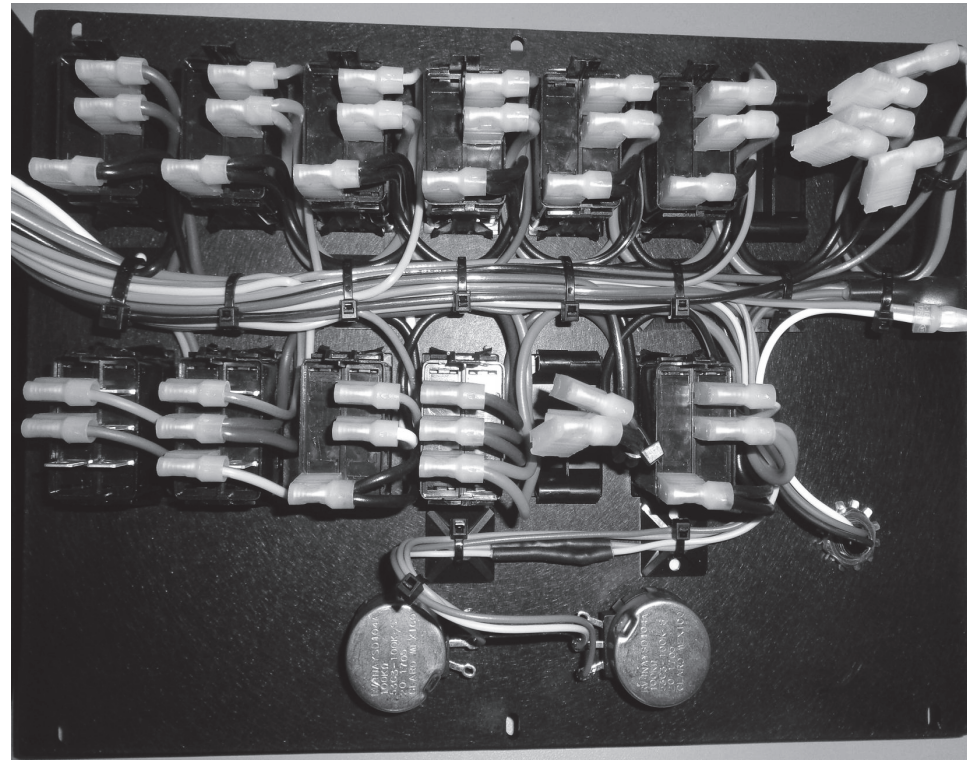


| REV | DESCRIPTION | DATE | APPROVED |
|-----|---|------------|----------|
| A | REPLACED 8-32 & 10-32 NUT AND WASHER WITH KEP NUTS | 6/6/2017 | LAP |
| B | ADDED 051841 | 12-JUNE-17 | 17049 |
| C | ADDED ONE 305189, 305028, REPLACED 355305 WITH 355949 | 20-JUL-17 | LAP |

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TOLERANCE: UNLESS OTHERWISE SPECIFIED
 3 PLACES ± 0.010 2 PLACES ± 0.030 ANGULAR ± 1°
 DWG. TITLE: IN-CAB CONTROL BOX, LEGO, 4 HEAD
 SCALE: NTS DATE: JAN-23-17 DWG. NO. 051380
 DRAWN BY: LAP SHEET 1 OF 2

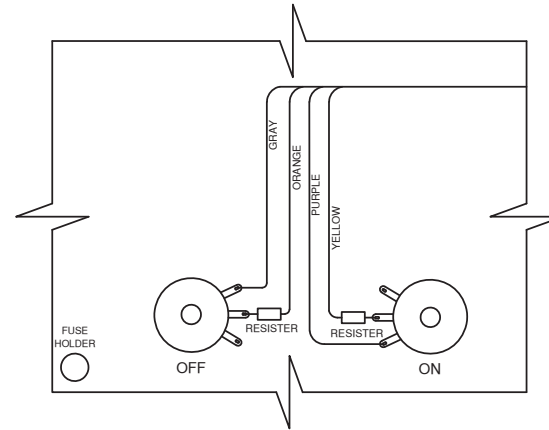


NOTE:
PHOTOS ARE OF PROTOTYPE. FUSE HOLDERS
MOVED TO SIDE OF BOX AND FOAM AGENT
SWITCHES MOVED TO JOYSTICK BOX

| | | | |
|--|------------------|---|--|
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| 3 PLACES ± 0.010 | 2 PLACES ± 0.030 | ANGULAR ± 1° | |
| DWG. TITLE: IN-CAB CONTROL BOX, LEGO, 4 HEAD | | | |
| SCALE: NTS | DATE: JAN-23-17 | DWG. NO. 051380 | |
| DRAWN BY: LAP | | SHEET 2 OF 2 | |

BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|-----|----------|-----------|-----|---------|-----|
|-----|----------|-----------|-----|---------|-----|



DETAIL A
POTENTIOMETER & RESISTOR WIRING

| | | |
|--------|----------|---------------------|
| PIN 1 | RED | POWER |
| PIN 2 | BRN/RED | MONITOR DOWN |
| PIN 3 | BLK/BLUE | MONITOR LEFT |
| PIN 4 | RED/BLUE | MONITOR UP |
| PIN 5 | BRN/BLUE | ADJ NOZZLE(STREAM) |
| PIN 6 | BLK/ORG | ADJ NOZZLE(FOG/FAN) |
| PIN 7 | RED/ORG | FOAM OPEN |
| PIN 8 | BLU/ORG | FOAM CLOSE |
| PIN 9 | YEL/RED | MONITOR RIGHT |
| PIN 10 | BLK | GROUND |
| PIN 11 | NONE | NONE |
| PIN 12 | NONE | NONE |

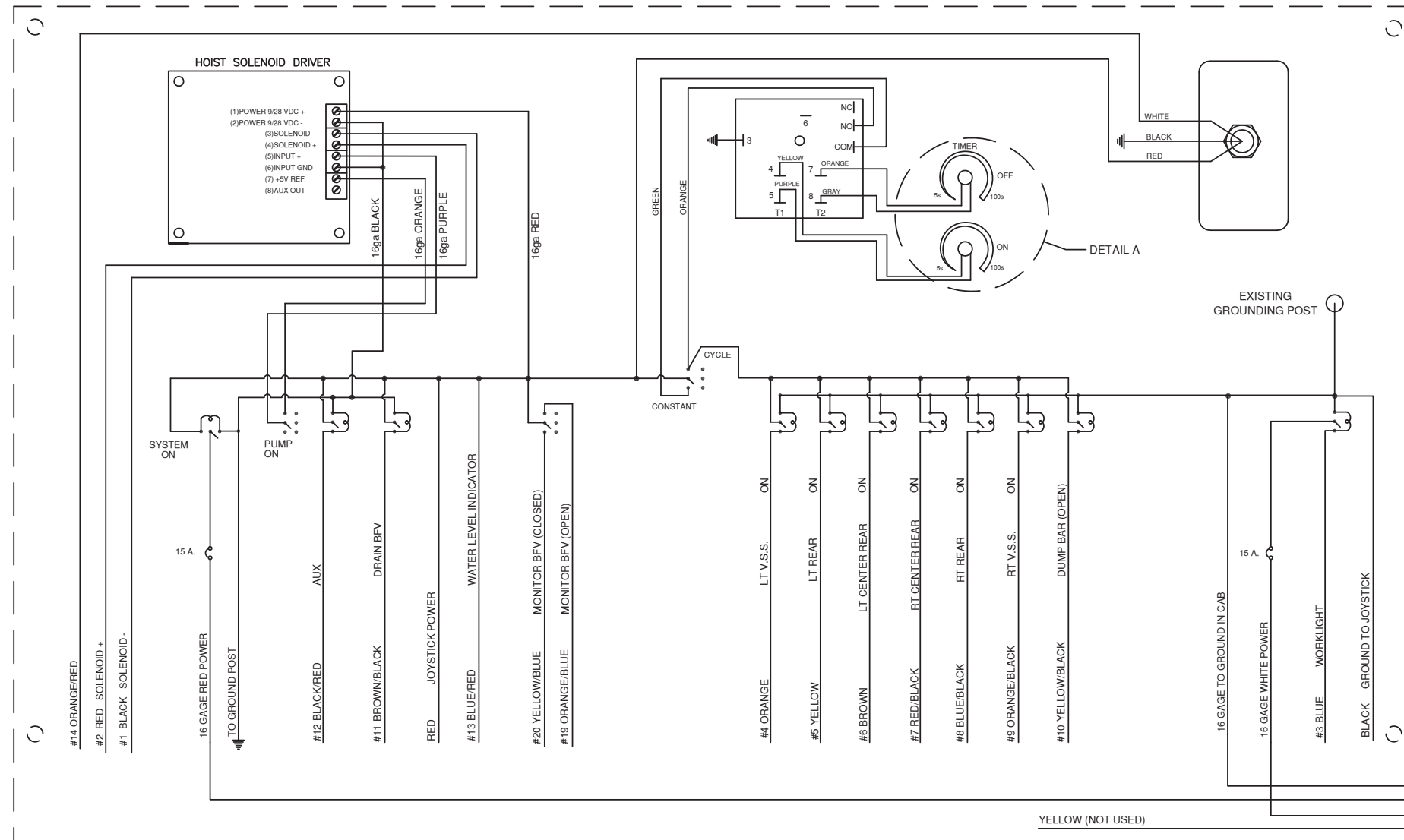
12 CONDUCTOR TO JOYSTICK

| | | |
|--------|---------|--------------------|
| PIN 1 | BLACK | SOLENOID- |
| PIN 2 | RED | SOLENOID+ |
| PIN 3 | BLUE | WORKLIGHT |
| PIN 4 | ORANGE | LEFT VSS |
| PIN 5 | YELLOW | LEFT REAR |
| PIN 6 | BROWN | LEFT REAR CENTER |
| PIN 7 | RED/BLK | RIGHT REAR CENTER |
| PIN 8 | BLU/BLK | RIGHT REAR |
| PIN 9 | ORG/BLK | RIGHT VSS |
| PIN 10 | YEL/BLK | DUMP BAR BFV |
| PIN 11 | BRN/BLK | DRAIN BFV |
| PIN 12 | BLK/RED | AUX REGULATED |
| PIN 13 | BLU/RED | WLI POWER |
| PIN 14 | ORG/RED | WLI SIGNAL |
| PIN 15 | YEL/RED | MONITOR RIGHT |
| PIN 16 | BRN/RED | MONITOR DOWN |
| PIN 17 | BLK/BLU | MONITOR LEFT |
| PIN 18 | RED/BLU | MONITOR UP |
| PIN 19 | ORG/BLU | MONITOR BFV OPEN |
| PIN 20 | YEL/BLU | MONITOR BFV CLOSE |
| PIN 21 | BRN/BLU | ADJ NOZZLE STREAM |
| PIN 22 | BLK/ORG | ADJ NOZZLE FOG/FAN |
| PIN 23 | RED/ORG | FOAM OPEN |
| PIN 24 | BLU/ORG | FOAM CLOSE |
| | YEL/ORG | NOT USED |

24 CONDUCTOR TO SOLENOID BOX

| | |
|--------|------------------------|
| RED | POWER IN +24V SWITCHED |
| WHITE | POWER IN +24V SWITCHED |
| BLACK | GROUND |
| YELLOW | NOT USED |

4 CONDUCTOR POWER TO CAB



CONTROL BOX



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TOLERANCE: UNLESS OTHERWISE SPECIFIED

| | | |
|------------------|-----------------|--------------|
| 3 PLACES ± 0.010 | 2 PLACES ± 0.03 | ANGULAR ± 1° |
|------------------|-----------------|--------------|

NAME OF JOB: LEGO SPRAYHEAD CONTROL SYSTEM KIT, 4 HEAD

DRAWING TITLE: 4R, 2VSS, WLI, INTSPRAY, HYD. MON., GRV, DUMP, QUICK DUMP, FOAM, AUX

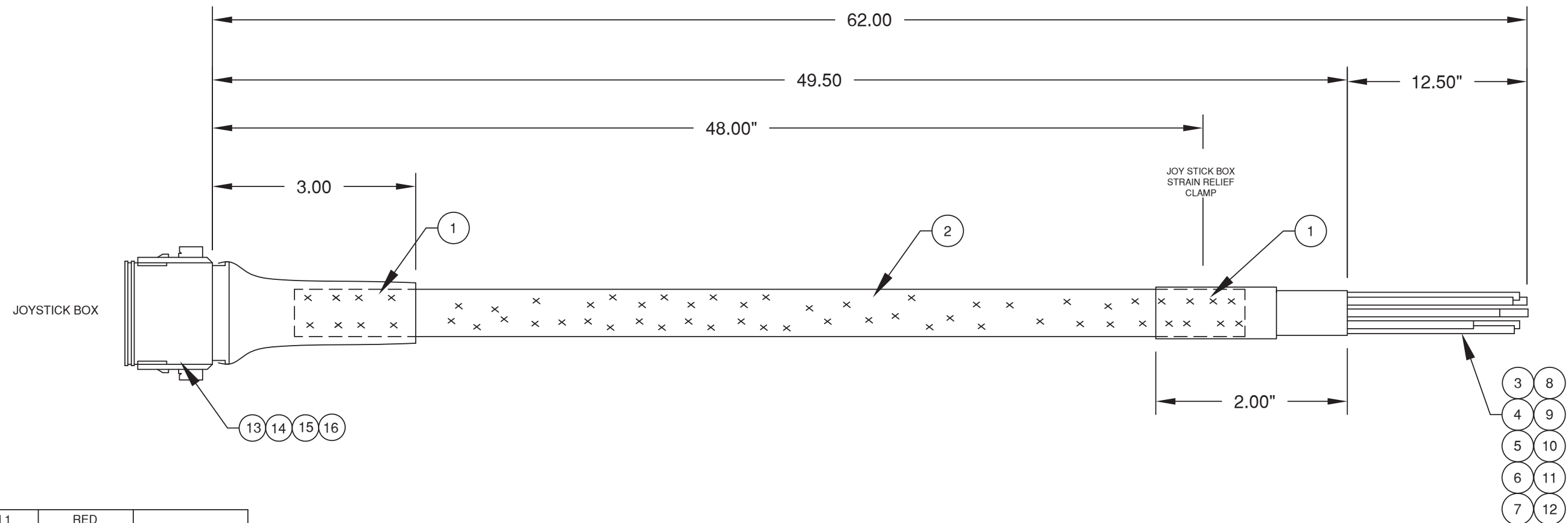
SCALE: NONE DATE: 2/24/17 DWG. No.: 051578

DRAWN BY: LAP SHEET OF 1

| REVISIONS | | | |
|-----------|---|-----------|----------|
| REV | DESCRIPTION | DATE | APPROVED |
| A | MOVED QUICK DRAIN OFF OF INTERMITTENT CIRCUIT | 7/21/17 | LAP |
| B | MOVED AUX OFF OF INTERMITTENT CIRCUIT | 17-APR-18 | TCS |

BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|-----|----------|---------------------------------------|-----|---------|-----|
| 1 | 305266 | HEAT SHRINK 5.00" | 2 | | SUP |
| 2 | 306493 | BRAIDED WIRE PROTECTION 3/8 X 48" | 1 | | SUP |
| 3 | 308278 | WIRE, RED 18 GA. X 60" | 1 | | SUP |
| 4 | 308279 | WIRE, BROWN/RED STRIPE 18 GA X 60" | 1 | | SUP |
| 5 | 308280 | WIRE, BLACK/BLUE STRIPE 18 GA X 60" | 1 | | SUP |
| 6 | 308281 | WIRE, RED/BLUE STRIPE 18 GA X 60" | 1 | | SUP |
| 7 | 308282 | WIRE, BROWN/BLUE STRIPE 18 GA X 60" | 1 | | SUP |
| 8 | 308283 | WIRE, BLACK/ORANGE STRIPE 18 GA X 60" | 1 | | SUP |
| 9 | 308284 | WIRE, RED/ORANGE STRIPE 18 GA X 60" | 1 | | SUP |
| 10 | 308285 | WIRE, BLUE/ORANGE STRIPE 18 GA X 60" | 1 | | SUP |
| 11 | 308286 | WIRE, YELLOW/RED 18 GA X 60" | 1 | | SUP |
| 12 | 308321 | WIRE, BLACK 18 GA X 60" | 1 | | SUP |
| 13 | 308311 | PLUG, 12 PIN, DT SERIES | 1 | | STK |
| 14 | 303380 | SOCKET, 16-20GA | 10 | | SUP |
| 15 | 305193 | WEDGE LOCK, 12 SOCKET | 1 | | SUP |
| 16 | 304471 | SEALING PLUG | 2 | | SUP |



| PIN | COLOR | DESCRIPTION |
|--------|------------|------------------------|
| PIN 1 | RED | 12 CONDUCTOR (ITEM 13) |
| PIN 2 | BROWN/RED | |
| PIN 3 | BLK/BLUE | |
| PIN 4 | RED/BLUE | |
| PIN 5 | BROWN/BLUE | |
| PIN 6 | BLK/ORANGE | |
| PIN 7 | RED/ORANGE | |
| PIN 8 | BLU/ORANGE | |
| PIN 9 | YELLOW/RED | |
| PIN 10 | BLK | |
| PIN 11 | NONE | |
| PIN 12 | NONE | |

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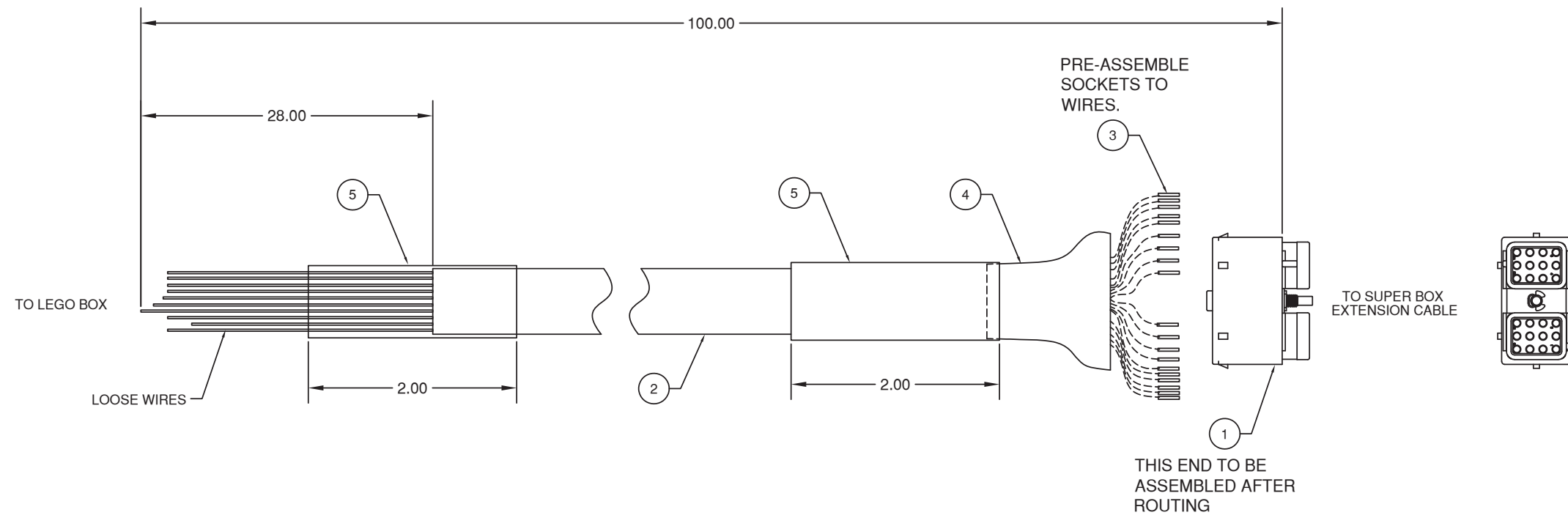
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| | | |
|---------------------------------------|-----------------|--------------|
| TOLERANCE: UNLESS OTHERWISE SPECIFIED | | |
| 3 PLACES ± 0.010 | 2 PLACES ± 0.03 | ANGULAR ± 1° |

| REVISIONS | | | | NAME OF JOB: LEGO CONTROL BOX | | |
|-----------|-------------------------------|-----------|----------|--|---------------|-----------|
| REV | DESCRIPTION | DATE | APPROVED | DRAWING TITLE: JOYSTICK CABLE ASSEMBLY, 10 CON | | DWG. No.: |
| A | 308286 CHANGED TO 308321 | 6/06/2017 | LAP | SCALE: NTS | DATE: 2-23-17 | 051572 |
| B | ADDED 4.50" TO OVERALL LENGTH | 7/24/2017 | LAP | DRAWN BY: LAP | SHEET OF 1 | |

BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|-----|----------|--------------------------|-----|---------|-----|
| 1 | 305844 | PLUG, 24 PIN, DRC SERIES | 1 | | STK |
| 2 | 308301 | CABLE, 18GA 25CON X 96" | 1 | | SUP |
| 3 | 303380 | SOCKET, FEMALE, DEUTSCH | 24 | | SUP |
| 4 | 306153 | BOOT | 1 | | STK |
| 5 | 305267 | HEAT SHRINK 6" | 2 | | SUP |



| | | |
|--------|---------|--------------------------|
| PIN 1 | BLACK | 24 CONDUCTOR (ITEM 1) |
| PIN 2 | RED | |
| PIN 3 | BLUE | |
| PIN 4 | ORANGE | |
| PIN 5 | YELLOW | |
| PIN 6 | BROWN | |
| PIN 7 | RED/BLK | |
| PIN 8 | BLU/BLK | |
| PIN 9 | ORG/BLK | |
| PIN 10 | YEL/BLK | |
| PIN 11 | BRN/BLK | |
| PIN 12 | BLK/RED | |
| PIN 13 | BLU/RED | |
| PIN 14 | ORG/RED | |
| PIN 15 | YEL/RED | |
| PIN 16 | BRN/RED | |
| PIN 17 | BLK/BLU | |
| PIN 18 | RED/BLU | |
| PIN 19 | ORG/BLU | |
| PIN 20 | YEL/BLU | |
| PIN 21 | BRN/BLU | |
| PIN 22 | BLK/ORG | |
| PIN 23 | RED/ORG | |
| PIN 24 | BLU/ORG | |
| | YEL/ORG | NOT USED |



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TOLERANCE: UNLESS OTHERWISE SPECIFIED

| | | |
|------------------|-----------------|--------------|
| 3 PLACES ± 0.010 | 2 PLACES ± 0.03 | ANGULAR ± 1° |
|------------------|-----------------|--------------|

NAME OF JOB: LEGO CONTROL BOX

DRAWING TITLE: 24 PIN PIG TAIL CABLE, PLUG

SCALE: NONE DATE: 5-12-17

DRAWN BY: LAP SHEET 1 OF 1

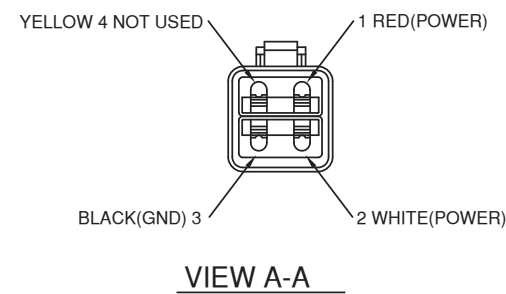
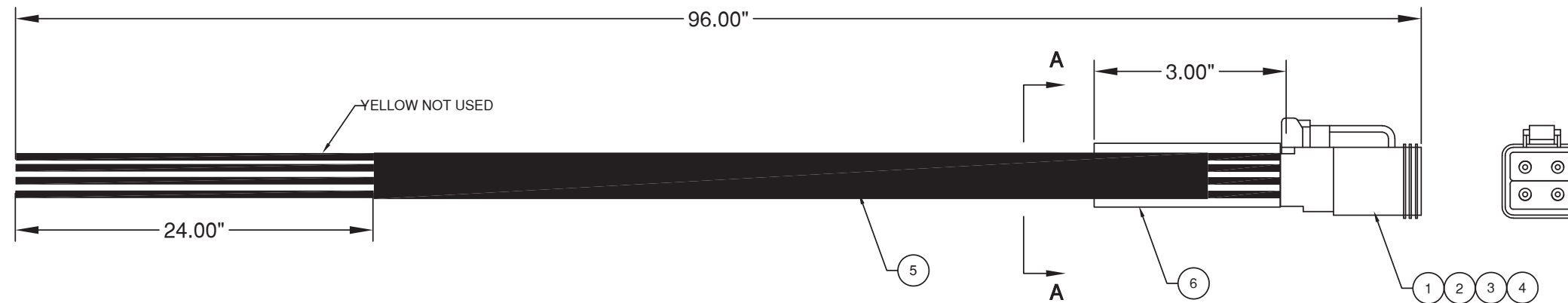
DWG. No.

051836

| REVISIONS | | | |
|-----------|-----------------------------------|----------|----------|
| REV | DESCRIPTION | DATE | APPROVED |
| A | CORRECTED ITEM 3 306152 TO 303380 | 06-07-17 | LAP |
| B | ADDED 4.00" TO OVERALL LENGTH | 07-24-17 | LAP |

BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|-----|----------|--------------------------|-----|---------|-----|
| 1 | 304468 | PLUG, 4 PIN (DEUTSCH) | 1 | | STK |
| 2 | 304469 | SECONDARY LOCK, 4 SOCKET | 1 | | SUP |
| 3 | 303380 | SOCKET, FEMALE, DEUTSCH | 4 | | SUP |
| 4 | 304471 | SEALING PLUG | 1 | | SUP |
| 5 | 306377 | CABLE 4 CON, 16 GA | 1 | | SUP |
| 6 | 305266 | HEAT SHRINK, 3.00" | 2 | | SUP |

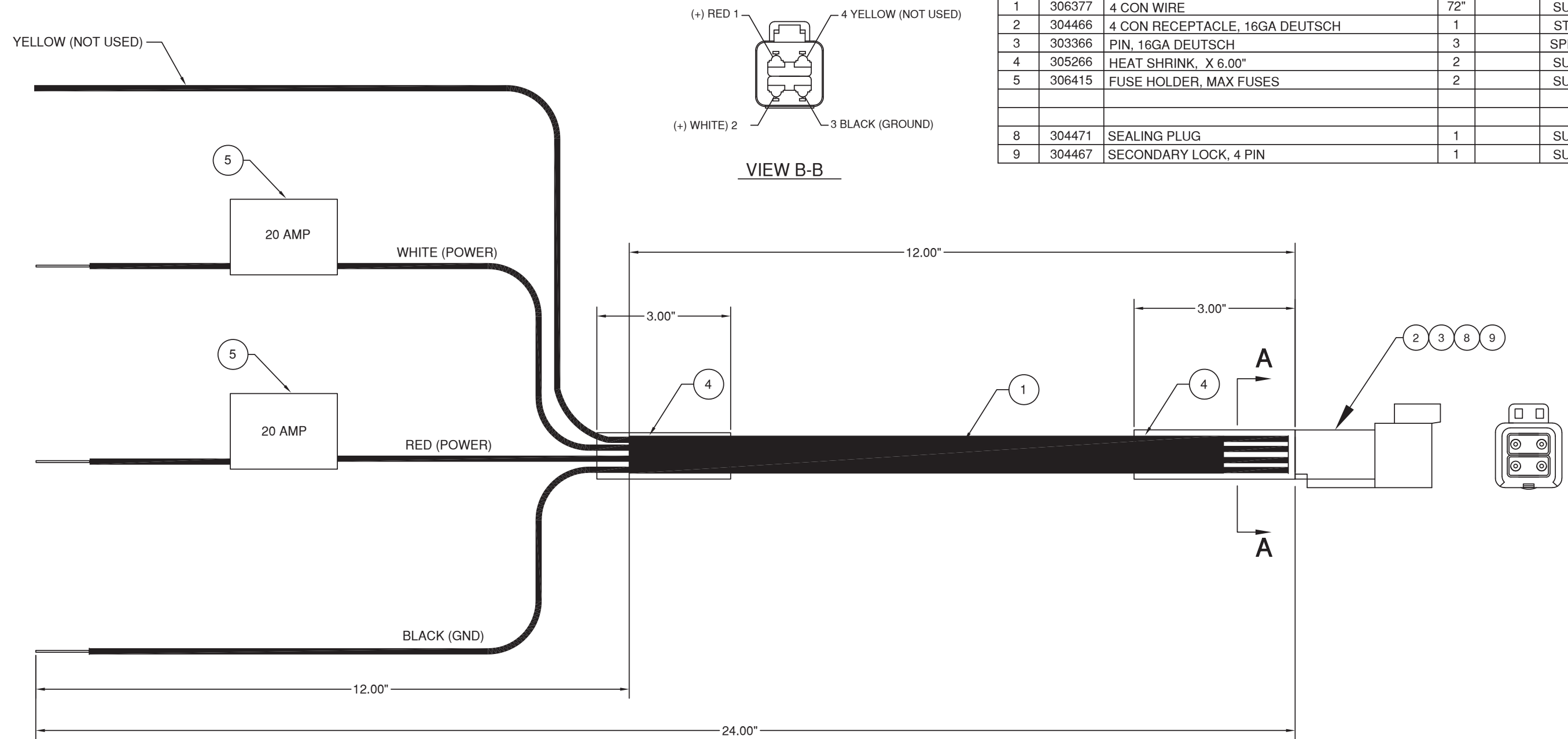


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TOLERANCE: UNLESS OTHERWISE SPECIFIED
3 PLACES ± 0.010 2 PLACES ± 0.03 ANGULAR ± 1°

| REVISIONS | | | | NAME OF JOB: LEGO CONTROL BOX | | |
|-----------|-------------------------------|------------|----------|-------------------------------------|--------------|------------------|
| REV | DESCRIPTION | DATE | APPROVED | DRAWING TITLE: CABLE, PIG TAIL 4CON | SCALE: NONE | DATE: 05-15-17 |
| A | 306377 PLUG CHANGED TO 304468 | 6/7/2017 | LAP | DRAWN BY: LAP | SHEET 1 OF 1 | DWG. No.: 051840 |
| B | CORRECTED ITEM 3 | 10/27/2017 | CSB | | | |

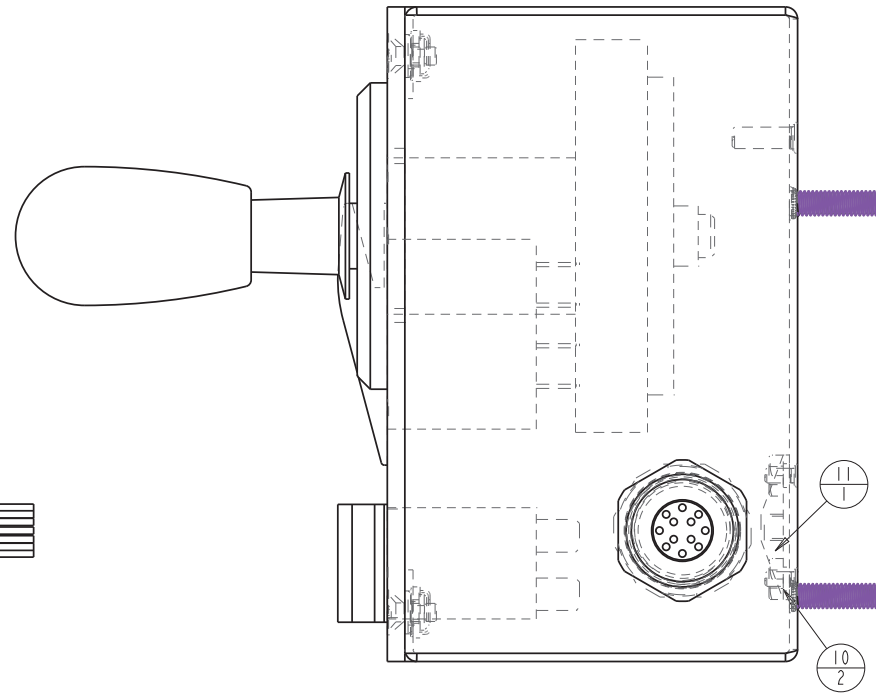
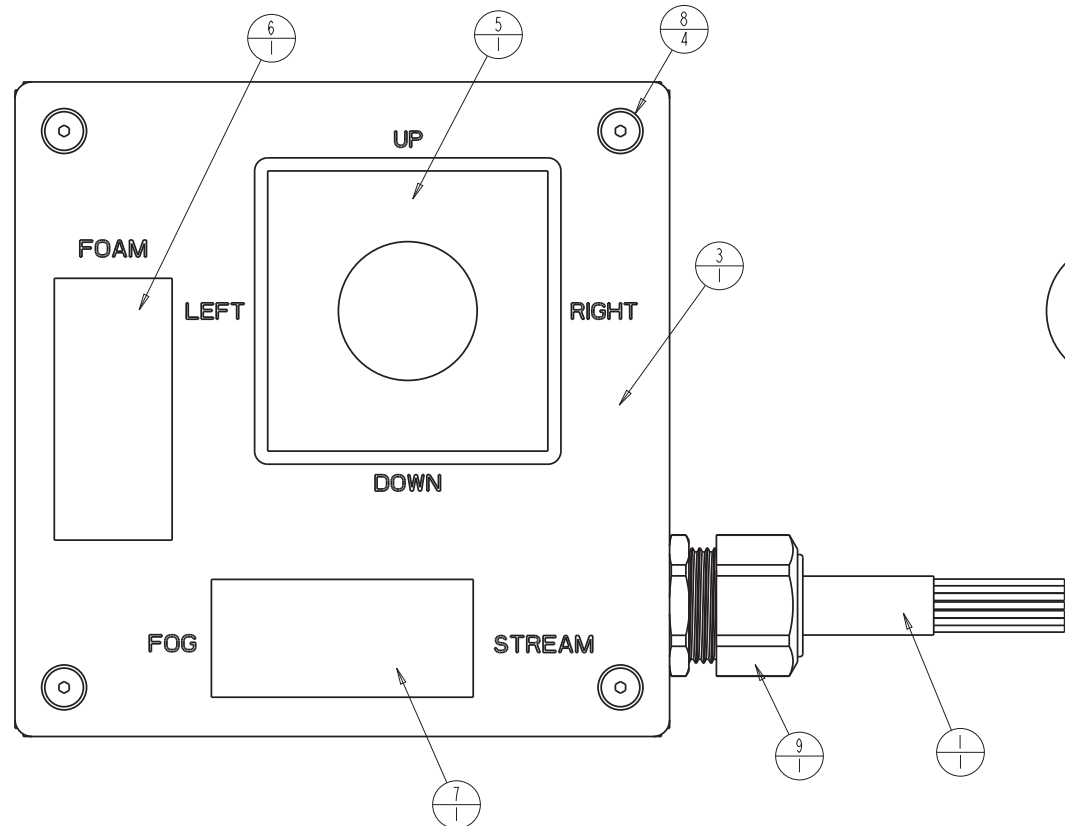
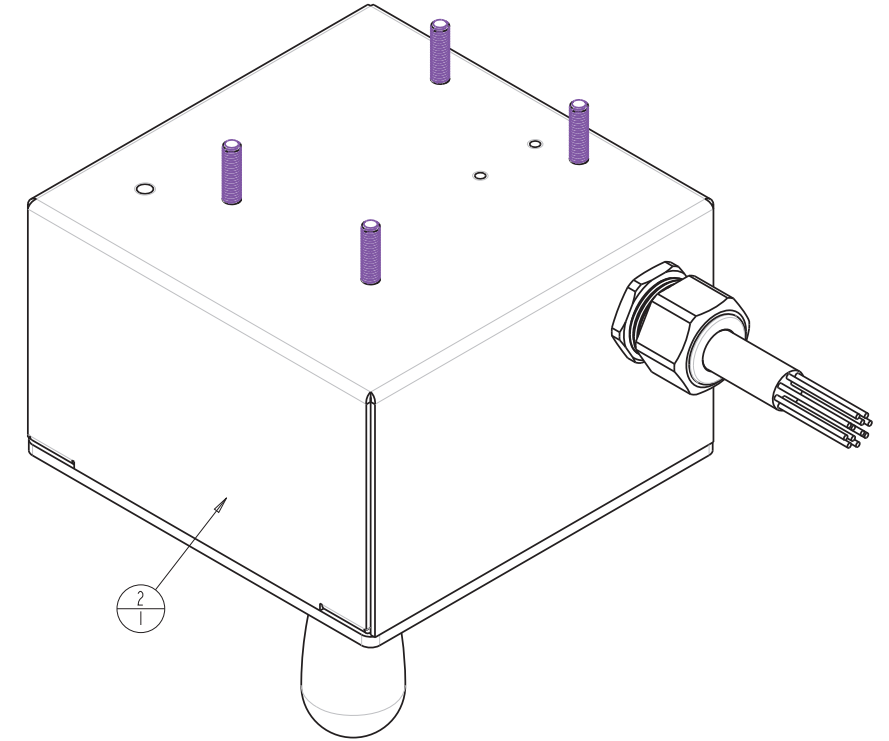
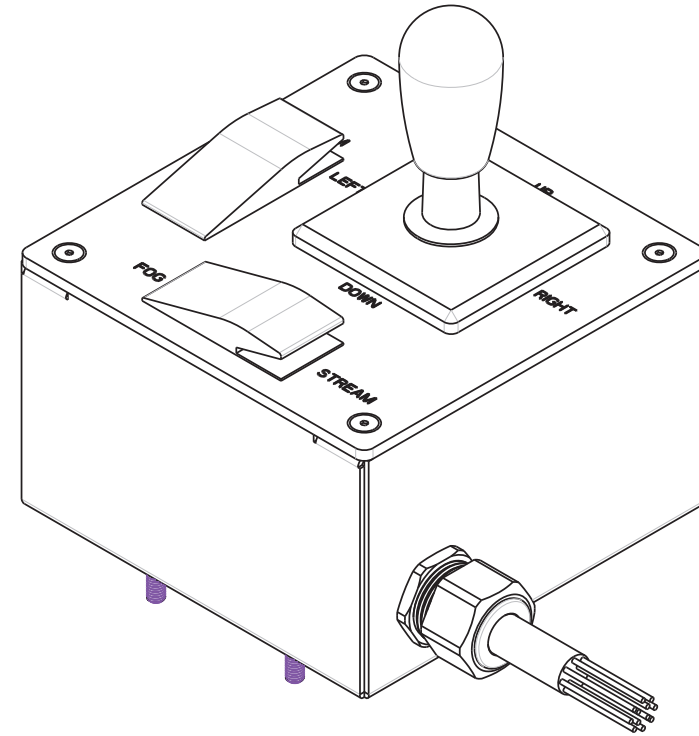
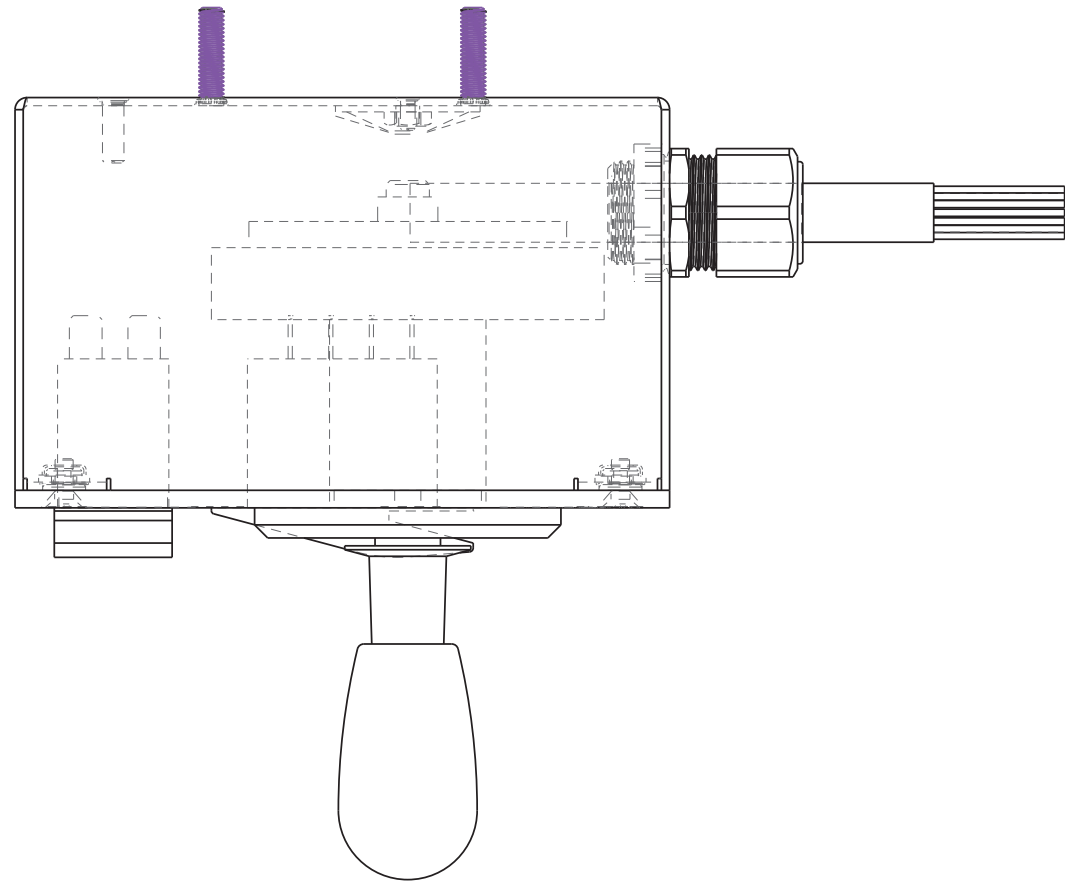


| NO. | PART NO. | DESCRIPTION | QTY. | REF. NO. | WEIGHT |
|-----|----------|--------------------------------|------|----------|--------|
| 1 | 306377 | 4 CON WIRE | 72" | | SUP |
| 2 | 304466 | 4 CON RECEPTACLE, 16GA DEUTSCH | 1 | | STK |
| 3 | 303366 | PIN, 16GA DEUTSCH | 3 | | SPLY |
| 4 | 305266 | HEAT SHRINK, X 6.00" | 2 | | SUP |
| 5 | 306415 | FUSE HOLDER, MAX FUSES | 2 | | SUP |
| 8 | 304471 | SEALING PLUG | 1 | | SUP |
| 9 | 304467 | SECONDARY LOCK, 4 PIN | 1 | | SUP |

| REVISIONS | | | |
|-----------|---|------------|----------|
| REV | DESCRIPTION | DATE | APPROVED |
| A | REMOVED ITEMS 6,7, CHANGED 306383 TO 306415 | 7/20/2017 | LAP |
| B | CHANGED 306415 TO SUPPLY | 10/16/2017 | LAP |

| | | | | | | | | |
|---|---|-------------|-------------|--------------|-----|---------|--|----------|
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| | | DATE DRAWN | DRAWN BY | NO. | FOR | TO SHOP | | DWG. NO. |
| | | 5-15-17 | LAP | | | | | 051841 |
| | | DATE APPRV. | APPRV. BY | | | | | |

| ITEM | PART NO. | PART NAME | QTY | REF NO. | IND. | WT. |
|------|----------|-------------------------------|-----|---------|------|------|
| 1 | 051572 | JOYSTICK CABLE | 1 | | | REF |
| 2 | 051573 | JOYSTICK BOX, LEGO CONTROL | 1 | | | STK |
| 3 | 051575 | LEGO JOYSTICK BOX COVER PLATE | 1 | | | STK |
| 4 | 051855 | JOYSTICK BOX SCHEMATIC | 1 | | | REF |
| 5 | 303041 | UNIVERSAL, JOYSTICK | 1 | | | STK |
| 6 | 305021 | SWITCH, DPDT, NO LIGHT | 1 | | | STK |
| 7 | 305022 | SWITCH, DPDT, MOMENTARY | 1 | | | STK |
| 8 | 306523 | FLAT HEAD SCREW, 6/32 X .25 | 4 | | | STK |
| 9 | 308202 | STRAIN RELIEF, HEYCO M4340 | 1 | | | STK |
| 10 | 355305 | NUT, HEX #6-32 UNC | 2 | | | SPLY |
| 11 | 355466 | CRADLE, TIE WRAP, MOUNT | 1 | | | SPLY |

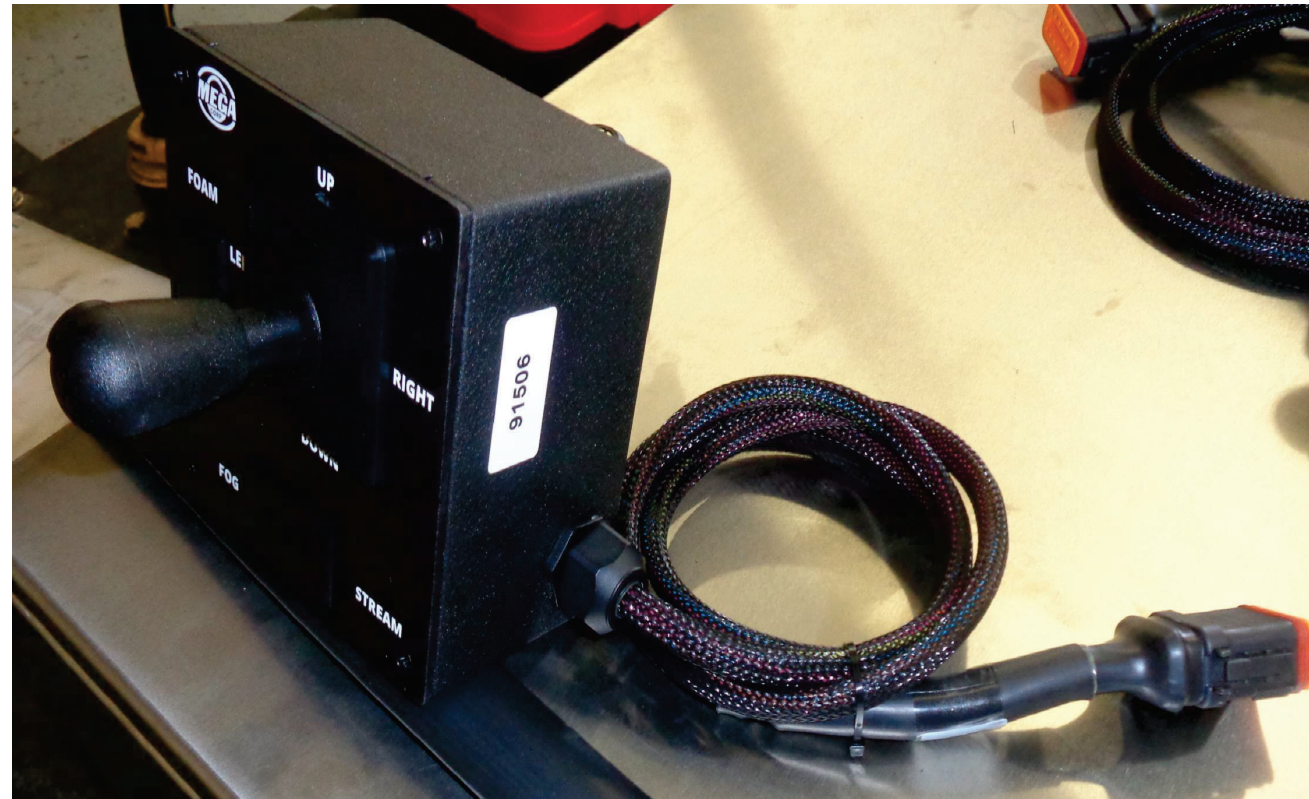


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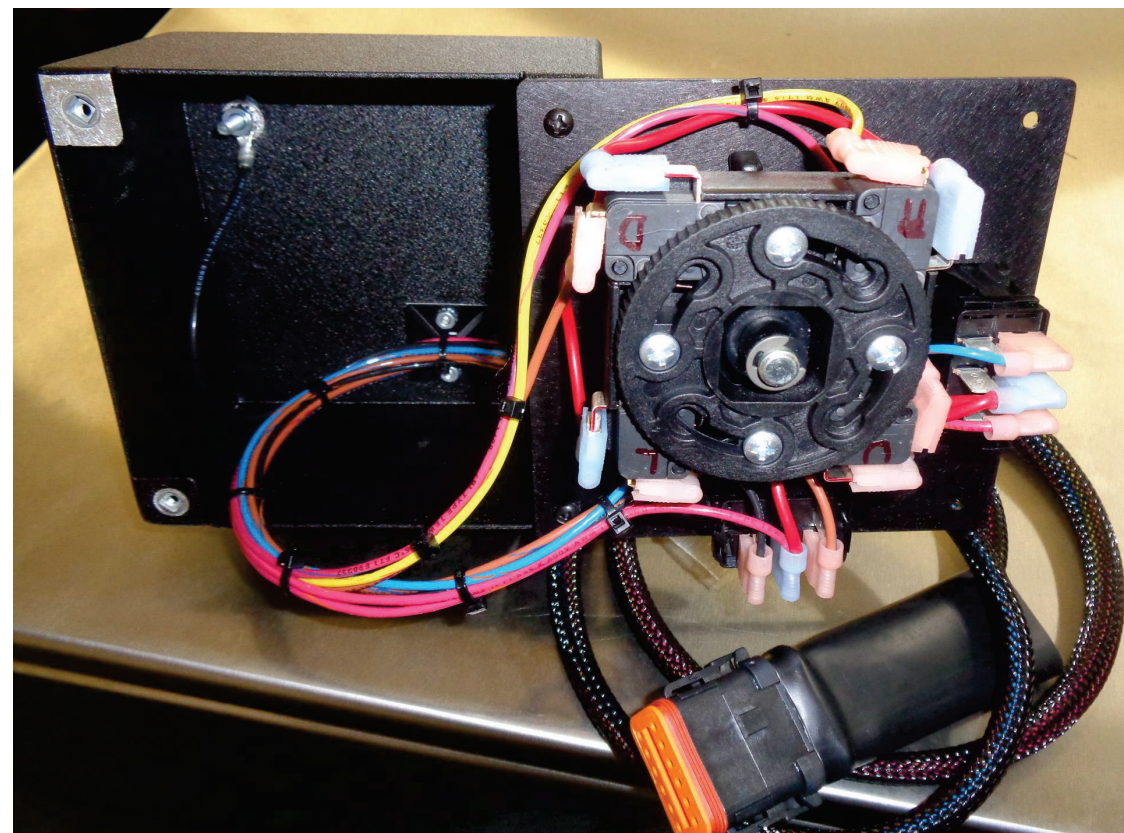
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TOLERANCE: UNLESS OTHERWISE SPECIFIED
 3 PLACES ± 0.010 2 PLACES ± 0.030 ANGULAR ± 1°


DWG. TITLE: LEGO JOYSTICK BOX
 SCALE: NTS DATE: Feb-23-17 DWG. NO. 051385
 DRAWN BY: LAP SHEET 1 OF 2

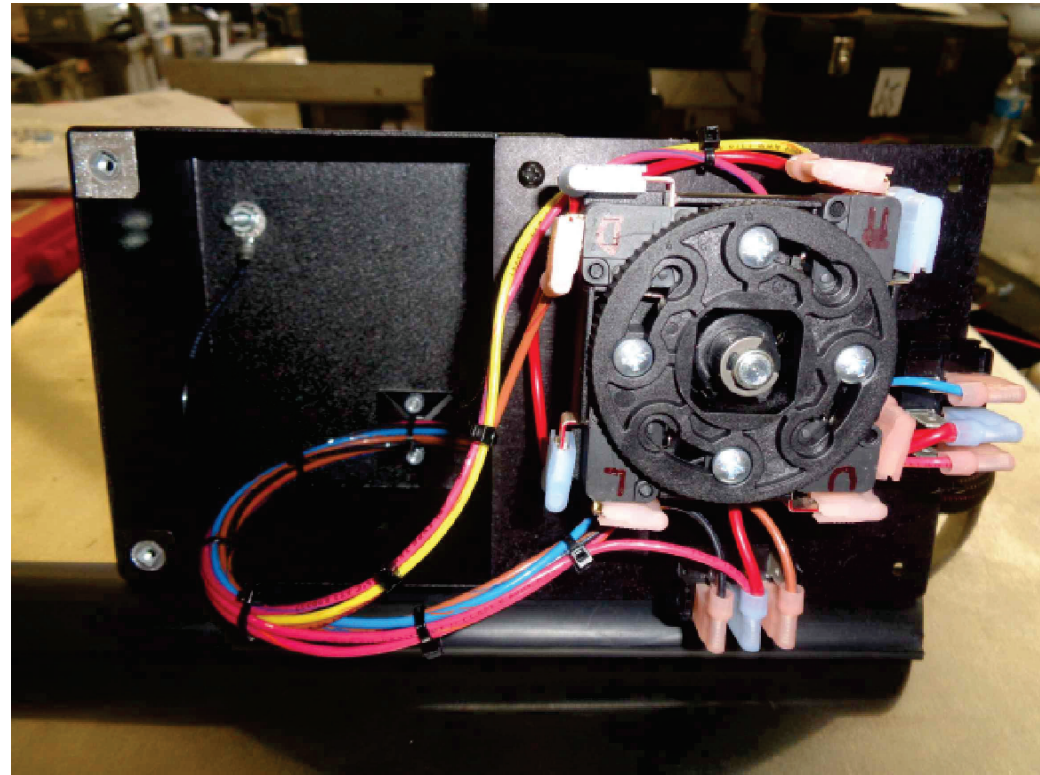


JOYSTICK SHOWN WITHOUT FOAM AGENT AND ADJUSTABLE NOZZLE OPTIONS

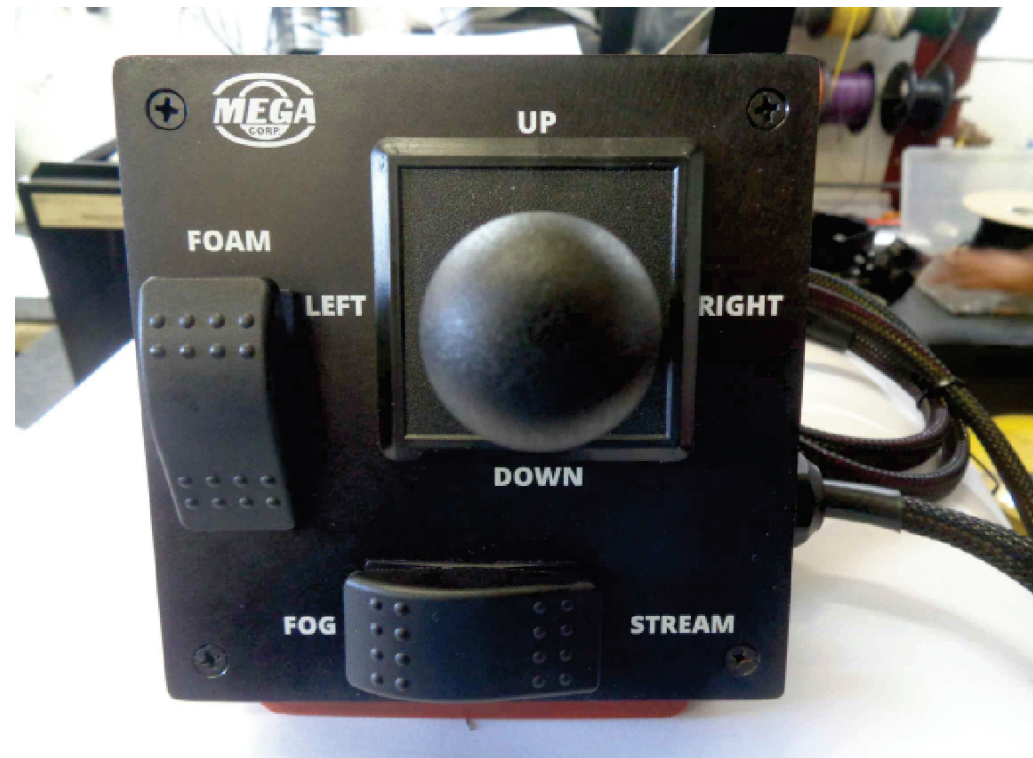


JOYSTICK WITH FOAM AGENT AND ADJUSTABLE NOZZLE OPTIONS

| | | | |
|---|---|---------------------------------|---|
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| | <small>TOLERANCE: UNLESS OTHERWISE SPECIFIED</small> | | |
| <small>3 PLACES ± 0.010</small> | | <small>2 PLACES ± 0.030</small> | <small>ANGULAR ± 1°</small> |
| <small>DWG. TITLE: LEGO JOYSTICK BOX</small> | | | |
| <small>SCALE: NTS</small> | <small>DATE: Jul-24-17</small> | <small>DWG. NO. 051385</small> | |
| <small>DRAWN BY: LAP</small> | <small>SHEET 2 OF 2</small> | | |



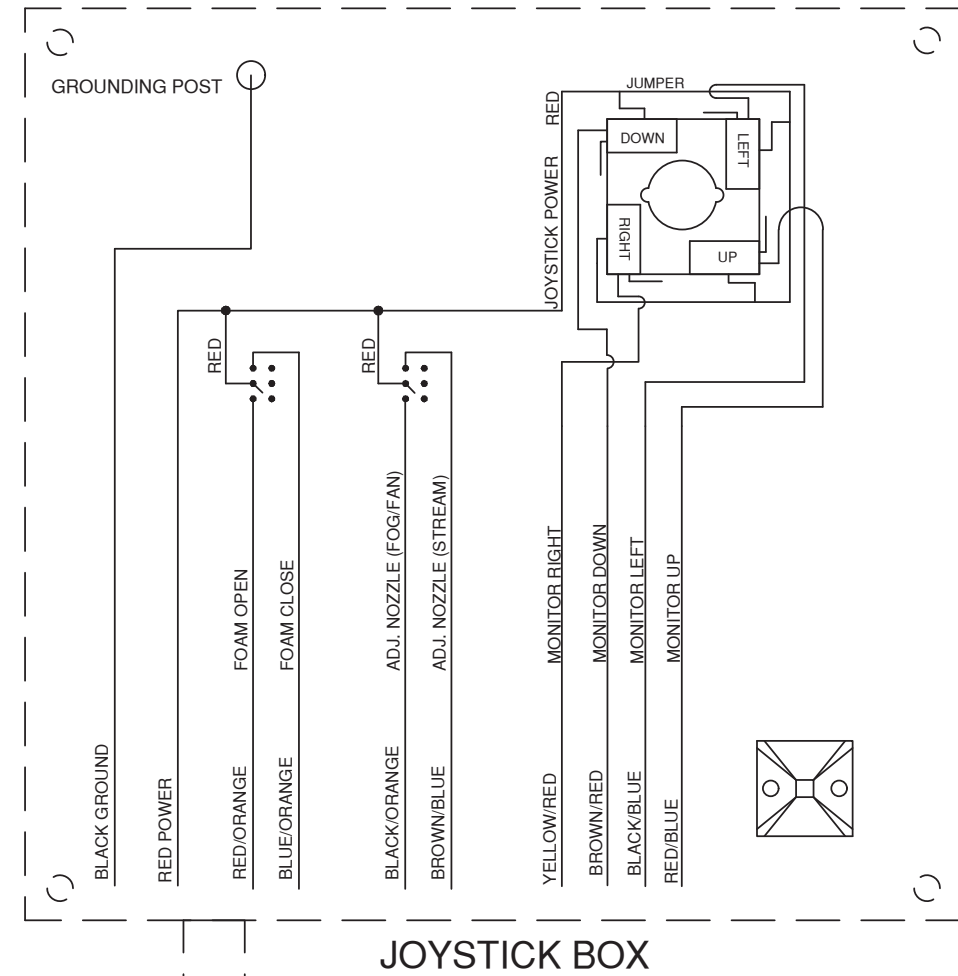
USE JOYSTICK MICRO SWITCHES WITH 90° WIRE LUGS AS SHOWN




JOYSTICK WITH FOAM AGENT AND ADJUSTABLE NOZZLE OPTIONS

TO SWITCH BOX

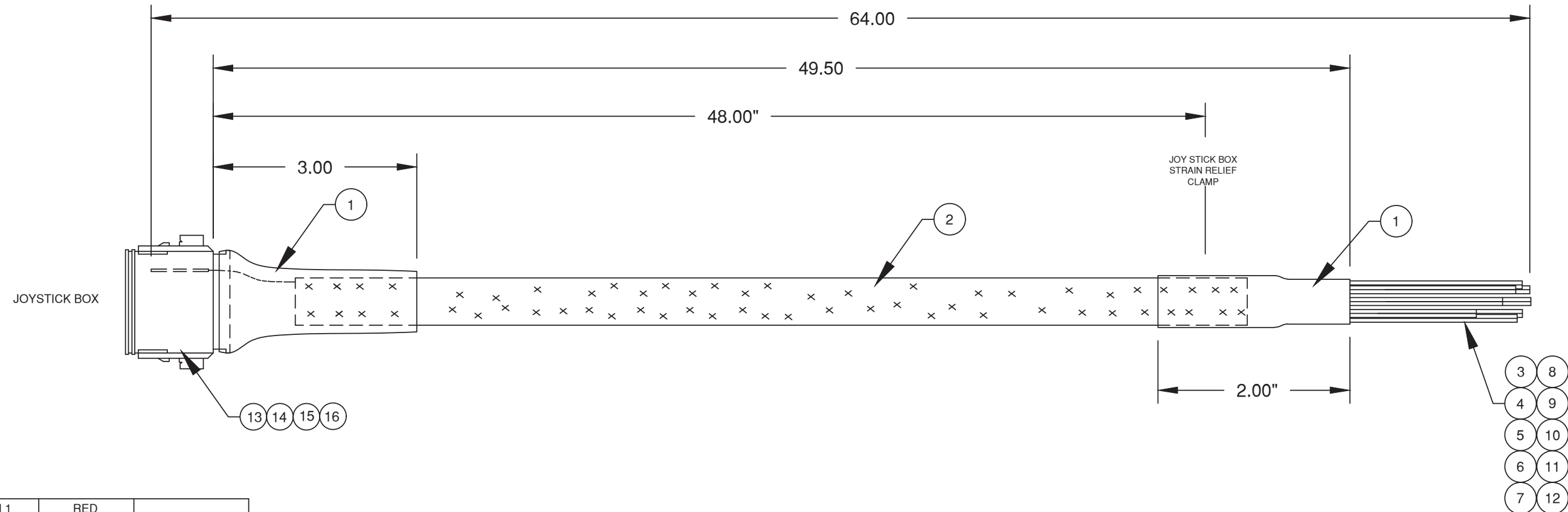
SEE 051572



| | | | | | |
|--|--|-----------------|--|------------------|--|
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| TOLERANCE: UNLESS OTHERWISE SPECIFIED | | | | | |
| 3 PLACES ± 0.010 | | 2 PLACES ± 0.03 | | ANGULAR ± 1° | |
| NAME OF JOB: LEGO SPRAYHEAD CONTROL SYSTEM KIT | | | | | |
| DRAWING TITLE: JOYSTICK SCHEMATIC | | | | | |
| SCALE: NONE | | DATE: 5/17/17 | | DWG. No.: 051855 | |
| DRAWN BY: LAP | | SHEET 1 OF 1 | | | |

BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|-----|----------|---------------------------------------|-----|---------|-----|
| 1 | 305266 | HEAT SHRINK 5.00" | 2 | | SUP |
| 2 | 306493 | BRAIDED WIRE PROTECTION 3/8 X 50" | 1 | | SUP |
| 3 | 308278 | WIRE, RED 18 GA. X 64" | 1 | | SUP |
| 4 | 308279 | WIRE, BROWN/RED STRIPE 18 GA X 64" | 1 | | SUP |
| 5 | 308280 | WIRE, BLACK/BLUE STRIPE 18 GA X 64" | 1 | | SUP |
| 6 | 308281 | WIRE, RED/BLUE STRIPE 18 GA X 64" | 1 | | SUP |
| 7 | 308282 | WIRE, BROWN/BLUE STRIPE 18 GA X 64" | 1 | | SUP |
| 8 | 308283 | WIRE, BLACK/ORANGE STRIPE 18 GA X 64" | 1 | | SUP |
| 9 | 308284 | WIRE, RED/ORANGE STRIPE 18 GA X 64" | 1 | | SUP |
| 10 | 308285 | WIRE, BLUE/ORANGE STRIPE 18 GA X 64" | 1 | | SUP |
| 11 | 308286 | WIRE, YELLOW/RED 18 GA X 64" | 1 | | SUP |
| 12 | 308321 | WIRE, BLACK 18 GA X 64" | 1 | | SUP |
| 13 | 308311 | PLUG, 12 PIN, DT SERIES | 1 | | STK |
| 14 | 303380 | SOCKET, 16-20GA | 10 | | SUP |
| 15 | 305193 | WEDGE LOCK, 12 SOCKET | 1 | | SUP |
| 16 | 304471 | SEALING PLUG | 2 | | SUP |



| | | |
|--------|------------|-----------------------------|
| PIN 1 | RED | 12 CONDUCTOR PLUG (ITEM 13) |
| PIN 2 | BROWN/RED | |
| PIN 3 | BLK/BLUE | |
| PIN 4 | RED/BLUE | |
| PIN 5 | BROWN/BLUE | |
| PIN 6 | BLK/ORANGE | |
| PIN 7 | RED/ORANGE | |
| PIN 8 | BLU/ORANGE | |
| PIN 9 | YELLOW/RED | |
| PIN 10 | BLK | |
| PIN 11 | NONE | |
| PIN 12 | NONE | |



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

| REVISIONS | | | | NAME OF JOB: LEGO CONTROL BOX |
|-----------|-------------------------------|-----------|----------|--|
| REV | DESCRIPTION | DATE | APPROVED | DRAWING TITLE: JOYSTICK CABLE ASSEMBLY |
| A | 308286 CHANGED TO 308321 | 6/06/2017 | LAP | SCALE: NTS DATE: 2-23-17 |
| B | ADDED 4.50" TO OVERALL LENGTH | 7/24/2017 | LAP | DRAWN BY: LAP SHEET 1 OF 1 |
| C | UPDATE WIRE LENGTHS AND BRAID | 7/07/2019 | LAP | DWG. No.: 051572 |

| PART NUMBER | CONFIGURATION FILE | OUTPUT |
|-------------|--------------------|-------------|
| 052050 | CAT SCRAPER.XML | 1.25±0.10 A |
| 052051 | CAT MTT.XML | 1.93±0.10 A |
| 052052 | KOMATSU.XML | 0.80±0.10 A |
| 052053 | CAT MAC.XML | 1.4±0.10 A |
| 052054 | 24V.XML | 24±0.5V |

SIMPLE CONFIGURATION

1. TURN ON NFC DEVICE AND ACTIVATE PROGRAMMING SOFTWARE (E-WRITE NFC).
2. REMOVE DRIVER CARD FROM CARDBOARD PACKAGING. IT IS NOT NECESSARY TO REMOVE THE PACKING WRAP.
3. SELECT FOLDER ICON TO LOAD CONFIGURATION FILE.
4. SELECT THE CONFIGURATION FILE TO MATCH THE PART NUMBER IN THE TABLE ON THE RIGHT.
5. DRAG FROM THE LEFT OF THE SCREEN TO BRING UP MAIN MENU.
6. SELECT "WRITE TO NFC CONTROLLER."
7. PLACE NFC DEVICE WITHIN 1 INCH OF DRIVER CARD ANTENNA.
8. ONCE THE NFC DEVICE DISPLAYS A MESSAGE INDICATING SUCCESS, THE DRIVER CARD IS CONFIGURED.
9. TEST PER PROCEDURE AS SPECIFIED

052050 CONFIGURATION PARAMETERS

INPUT CONFIGURATION
 INPUT TYPE: DIGITAL NORMAL
 ERROR DETECTION: FALSE
 PULSES PER REVOLUTION: 0
 MINIMUM ERROR: 0.00
 MINIMUM RANGE: 0.00
 MAXIMUM RANGE: 1.00
 MAXIMUM ERROR: 1.00
 ERROR HYSTERESIS: 0.50
 DIGITAL DEBOUNCE TIME: 0
 PULLUP/PULLDOWN: 10KOHM PULLDOWN
 INPUT FILTER TYPE: NOT USED
 INPUT FILTER CONSTANT:1

LOOKUP TABLE CONFIGURATION
 CONTROL SOURCE: NOT USED

OUTPUT CONFIGURATION
 CONTROL SOURCE: UNIVERSAL INPUT
 OUTPUT TYPE: PROPORTIONAL CURRENT
 OUTPUT AT MIN COMMAND: 0 MA
 OUTPUT AS MAX COMMAND: 1250MA
 RAMP UP TIME: 6000 MS
 RAMP DOWN TIME: 6000 MS
 OUTPUT FREQUENCY: 25000 HZ
 DITHER FREQUENCY: 100 HZ
 DITHER AMPLITUDE: 225 MA
 HOTSHOT TIME: 1000 MS
 HOTSHOT CURRENT: 1500 MA

NOTE: THE ABOVE PARAMETERS ARE CONTAINED IN THE CONFIGURATION FILES AND ARE ONLY INCLUDED FOR SITUATIONS IN WHICH THE FILES ARE HARD TO ACCESS OR LOST. SOFTWARE IS CALLED E-WRITE NFC AND IS AVAILABLE ON THE GOOGLE PLAY STORE.

052051 CONFIGURATION PARAMETERS

INPUT CONFIGURATION
 INPUT TYPE: DIGITAL NORMAL
 ERROR DETECTION: FALSE
 PULSES PER REVOLUTION: 0
 MINIMUM ERROR: 0.00
 MINIMUM RANGE: 0.00
 MAXIMUM RANGE: 1.00
 MAXIMUM ERROR: 1.00
 ERROR HYSTERESIS: 0.50
 DIGITAL DEBOUNCE TIME: 0
 PULLUP/PULLDOWN: 10KOHM PULLDOWN
 INPUT FILTER TYPE: NOT USED
 INPUT FILTER CONSTANT:1

LOOKUP TABLE CONFIGURATION
 CONTROL SOURCE: NOT USED

OUTPUT CONFIGURATION
 CONTROL SOURCE: UNIVERSAL INPUT
 OUTPUT TYPE: PROPORTIONAL CURRENT
 OUTPUT AT MIN COMMAND: 0 MA
 OUTPUT AS MAX COMMAND: 1930 MA
 RAMP UP TIME: 6000 MS
 RAMP DOWN TIME: 6000 MS
 OUTPUT FREQUENCY: 25000 HZ
 DITHER FREQUENCY: 100 HZ
 DITHER AMPLITUDE: 225 MA
 HOTSHOT TIME: 1000 MS
 HOTSHOT CURRENT: 1500 MA

NOTE: THE ABOVE PARAMETERS ARE CONTAINED IN THE CONFIGURATION FILES AND ARE ONLY INCLUDED FOR SITUATIONS IN WHICH THE FILES ARE HARD TO ACCESS OR LOST. SOFTWARE IS CALLED E-WRITE NFC AND IS AVAILABLE ON THE GOOGLE PLAY STORE.

052052 CONFIGURATION PARAMETERS

INPUT CONFIGURATION
 INPUT TYPE: DIGITAL NORMAL
 ERROR DETECTION: FALSE
 PULSES PER REVOLUTION: 0
 MINIMUM ERROR: 0.00
 MINIMUM RANGE: 0.00
 MAXIMUM RANGE: 1.00
 MAXIMUM ERROR: 1.00
 ERROR HYSTERESIS: 0.50
 DIGITAL DEBOUNCE TIME: 0
 PULLUP/PULLDOWN: 10KOHM PULLDOWN
 INPUT FILTER TYPE: NOT USED
 INPUT FILTER CONSTANT:1

LOOKUP TABLE CONFIGURATION
 CONTROL SOURCE: NOT USED

OUTPUT CONFIGURATION
 CONTROL SOURCE: UNIVERSAL INPUT
 OUTPUT TYPE: PROPORTIONAL CURRENT
 OUTPUT AT MIN COMMAND: 0 MA
 OUTPUT AS MAX COMMAND: 800 MA
 RAMP UP TIME: 6000 MS
 RAMP DOWN TIME: 6000 MS
 OUTPUT FREQUENCY: 25000 HZ
 DITHER FREQUENCY: 100 HZ
 DITHER AMPLITUDE: 225 MA
 HOTSHOT TIME: 1000 MS
 HOTSHOT CURRENT: 1500 MA

NOTE: THE ABOVE PARAMETERS ARE CONTAINED IN THE CONFIGURATION FILES AND ARE ONLY INCLUDED FOR SITUATIONS IN WHICH THE FILES ARE HARD TO ACCESS OR LOST. SOFTWARE IS CALLED E-WRITE NFC AND IS AVAILABLE ON THE GOOGLE PLAY STORE.

052053 CONFIGURATION PARAMETERS

INPUT CONFIGURATION
 INPUT TYPE: DIGITAL NORMAL
 ERROR DETECTION: FALSE
 PULSES PER REVOLUTION: 0
 MINIMUM ERROR: 0.00
 MINIMUM RANGE: 0.00
 MAXIMUM RANGE: 1.00
 MAXIMUM ERROR: 1.00
 ERROR HYSTERESIS: 0.50
 DIGITAL DEBOUNCE TIME: 0
 PULLUP/PULLDOWN: 10KOHM PULLDOWN
 INPUT FILTER TYPE: NOT USED
 INPUT FILTER CONSTANT:1

LOOKUP TABLE CONFIGURATION
 CONTROL SOURCE: NOT USED

OUTPUT CONFIGURATION
 CONTROL SOURCE: UNIVERSAL INPUT
 OUTPUT TYPE: PROPORTIONAL CURRENT
 OUTPUT AT MIN COMMAND: 0 MA
 OUTPUT AS MAX COMMAND: 1400 MA
 RAMP UP TIME: 6000 MS
 RAMP DOWN TIME: 6000 MS
 OUTPUT FREQUENCY: 25000 HZ
 DITHER FREQUENCY: 100 HZ
 DITHER AMPLITUDE: 225 MA
 HOTSHOT TIME: 1000 MS
 HOTSHOT CURRENT: 1500 MA

NOTE: THE ABOVE PARAMETERS ARE CONTAINED IN THE CONFIGURATION FILES AND ARE ONLY INCLUDED FOR SITUATIONS IN WHICH THE FILES ARE HARD TO ACCESS OR LOST. SOFTWARE IS CALLED E-WRITE NFC AND IS AVAILABLE ON THE GOOGLE PLAY STORE.

052054 CONFIGURATION PARAMETERS

INPUT CONFIGURATION
 INPUT TYPE: DIGITAL NORMAL
 ERROR DETECTION: FALSE
 PULSES PER REVOLUTION: 0
 MINIMUM ERROR: 0.00
 MINIMUM RANGE: 0.00
 MAXIMUM RANGE: 1.00
 MAXIMUM ERROR: 1.00
 ERROR HYSTERESIS: 0.50
 DIGITAL DEBOUNCE TIME: 0
 PULLUP/PULLDOWN: 10KOHM PULLDOWN
 INPUT FILTER TYPE: NOT USED
 INPUT FILTER CONSTANT:1

LOOKUP TABLE CONFIGURATION
 CONTROL SOURCE: NOT USED

OUTPUT CONFIGURATION
 CONTROL SOURCE: UNIVERSAL INPUT
 OUTPUT TYPE: PROPORTIONAL VOLTAGE
 OUTPUT AT MIN COMMAND: 0 MV
 OUTPUT AS MAX COMMAND: 24000 MV
 RAMP UP TIME: 0 MS
 RAMP DOWN TIME: 0 MS
 OUTPUT FREQUENCY: 25000 HZ
 DITHER FREQUENCY: 100 HZ
 DITHER AMPLITUDE: 0 V
 HOTSHOT TIME: 1000 MS
 HOTSHOT CURRENT: 1500 MA

NOTE: THE ABOVE PARAMETERS ARE CONTAINED IN THE CONFIGURATION FILES AND ARE ONLY INCLUDED FOR SITUATIONS IN WHICH THE FILES ARE HARD TO ACCESS OR LOST. SOFTWARE IS CALLED E-WRITE NFC AND IS AVAILABLE ON THE GOOGLE PLAY STORE.

| REVISIONS | | | |
|-----------|--------------------------------|----------|----------|
| REV | DESCRIPTION | DATE | APPROVED |
| A | ADDED 24VDC | 8-30-17 | DSD |
| B | CHANGED 052050 CONFIG TO 1.25A | 9-13-17 | DSD |
| C | ADDED NOTE TO ADD STICKER | 11-20-17 | DSD |
| D | MOVED NOTE TO 051906 | 2-7-18 | DSD |
| E | RAMP UP/DOWN TO 0 ON 052054 | 6-22-18 | 18051 |

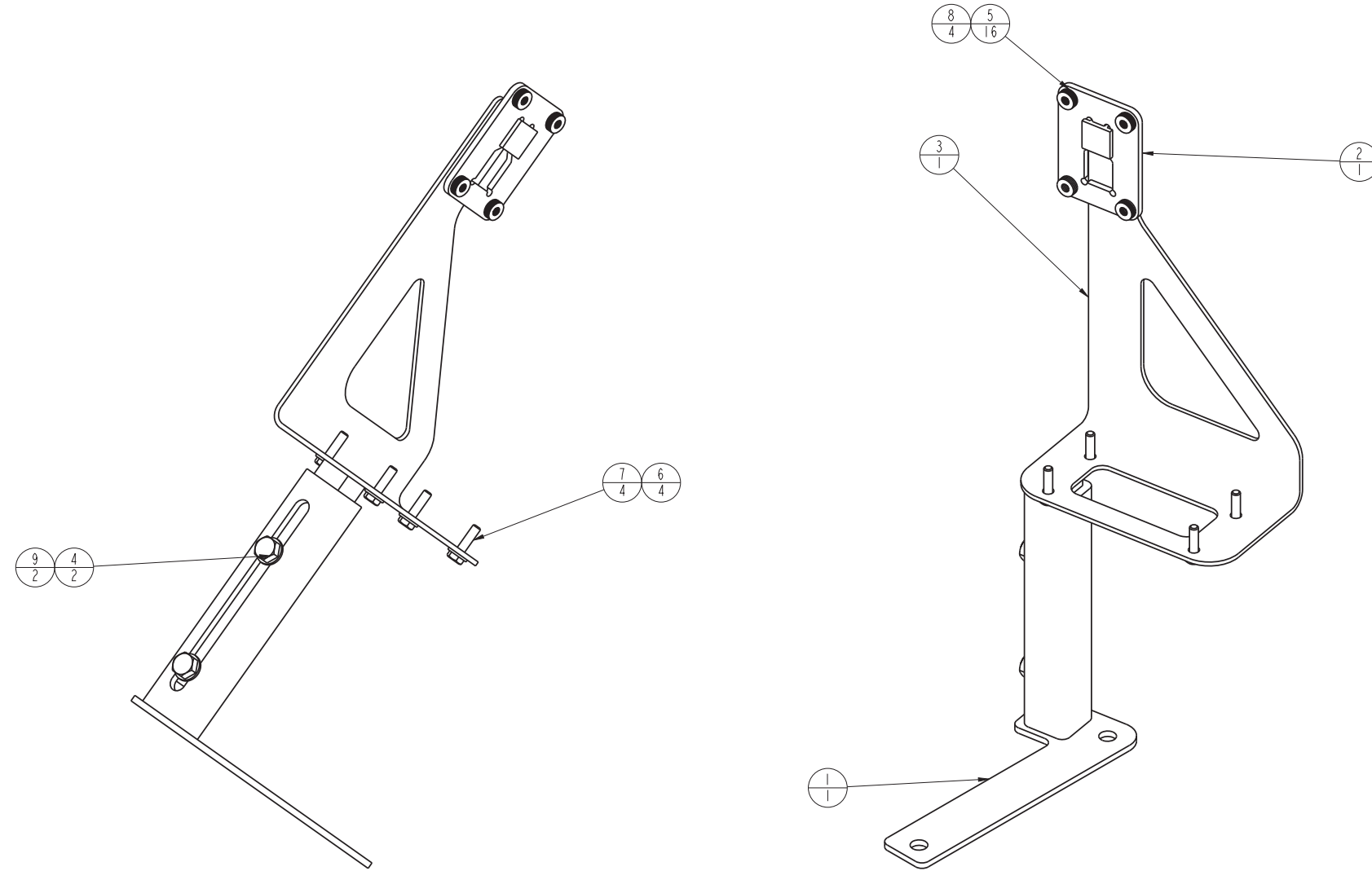
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TOLERANCE: UNLESS OTHERWISE SPECIFIED
 3 PLACES ± 0.010 2 PLACES ± 0.03 ANGULAR ± 1°

NAME OF JOB: DRIVER CARD
 DRAWING TITLE: DRIVER CARD CONFIGURATION PROCEDURE
 SCALE: NTS DATE: 7-21-17 DWG. No.: 052050
 DRAWN BY: DSD SHEET 1 OF 1

| ITEM | PART NO. | PART NAME | QTY | REF NO. | IND. | WT. |
|------|----------|-----------------------------|-----|---------|------|------|
| 1 | 044420 | PEDESTAL, LOWER | 1 | | | REF |
| 2 | 051577 | PLATE, JOYSTICK MOUNT | 1 | | | REF |
| 3 | 052429 | PEDESTAL, UPPER | 1 | | | REF |
| 4 | 305605 | SCREW, BH M10X1.5 X20MM | 2 | | | STK |
| 5 | 350000 | WASHER, FLAT #10 | 16 | | | SPLY |
| 6 | 350001 | WASHER, FLAT 1/4 | 4 | | | SPLY |
| 7 | 350061 | SCREW, CAP 1/4-20 UNC X1.00 | 4 | | | SPLY |
| 8 | 353088 | NUT, KEP 10-32 | 4 | | | SPLY |
| 9 | 355264 | WASHER, M10 | 2 | | | SPLY |

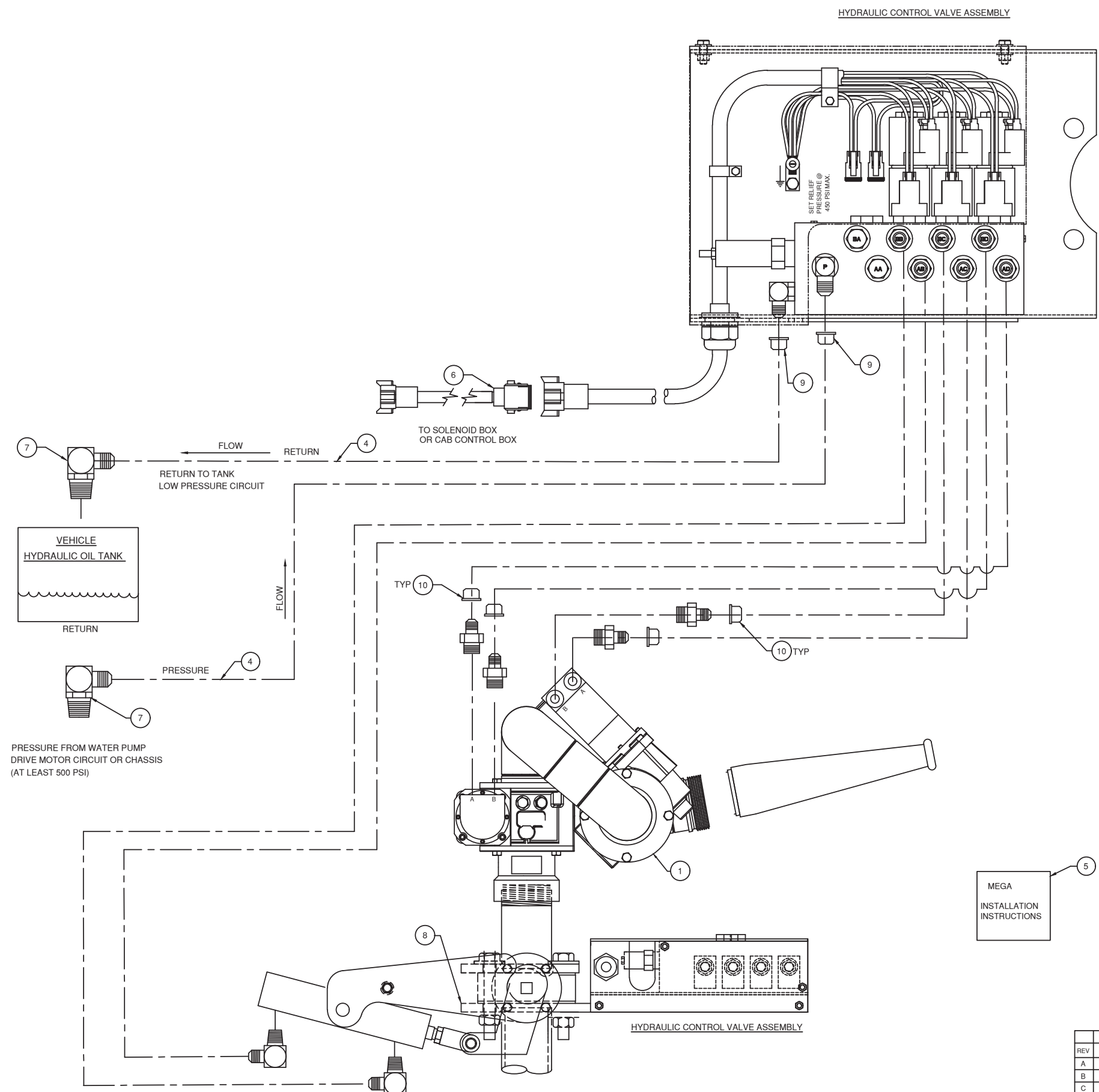


919

| | | |
|--|--|------------------|
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| | TOLERANCE: UNLESS OTHERWISE SPECIFIED 3 PLACES + 0.010 2 PLACES + 0.030 ANGULAR + P | |
| DWG. TITLE: PEDESTAL ASSEMBLY, SMALL CONTROL BOX | | |
| SCALE: 0.333 | DATE: Oct-25-17 | DWG. NO.: 052458 |
| DRAWN BY: CSB | NOTE: | SHEET 1 OF 1 |

| BILL OF MATERIAL | | | | | |
|---------------------------------|-----------|---------------------------|-----|---------|------|
| 041052 HYD MON KIT FULL INSTALL | | | | | |
| No. | Part No. | PART NAME | QTY | REF No. | WT. |
| 1 | 044309-6 | REMOTE MONITOR 1-1/2" | 1 | 044309 | REF |
| 2 | | | | | |
| 3 | | | | | |
| 4 | 051159-01 | HOSE ASM | 2 | | SHT1 |
| 5 | 040851 | INSTALLATION INSTRUCTIONS | 1 | | STK |
| 6 | 044344 | CABLE ASSEMBLY | 1 | 040955 | REF |
| 7 | 352438 | NPT/JIC 1/4 - 6 90° | 2 | | STK |
| 8 | 000194 | FLANGE, 3" | 1 | | STK |
| 9 | 353489 | JIC #6 CAPS | 2 | | SUP |
| 10 | 353487 | JIC #4 DUST COVER | 4 | | SUP |
| 11 | | | | | |
| 12 | 304632 | TRAVEL STOP, WATER CANNON | 1 | | STK |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |

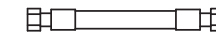
921



NOTES:

1. EXCEEDING SET HYDRAULIC RELIEF PRESSURE OF 600 PSI WILL VOID WARRANTY.
2. 3" BFV REQUIRED

051159-01



| ITEM | Part No. | PART NAME | QTY | REF No. | WT. |
|------|-----------|-----------------------------|-----|---------|-----|
| 1 | 356018 | HOSE END, -6 JIC 0° | 2 | | STK |
| 2 | H51159-01 | HOSE, SAE100R12 -6 X 118.00 | 1 | 354780 | STK |

| REVISIONS | | | |
|-----------|-----------------------------------|-----------|----------|
| REV | DESCRIPTION | DATE | APPROVED |
| A | MOVED 051161 TO OWN DRAWING | 08-20-17 | CSB |
| B | SYSTEM PRESSURE WAS 450 MAX | 08-29-17 | 17069 |
| C | ADDED NOZZLE & SHAPER BACK IN | 10-24-17 | CSB |
| D | ADDED 2X 304632, 048187 -> 044309 | 12-18-18 | 18125 |
| E | REMOVED 1 X 304632 | 07-10-19 | 18125 |
| F | 044309 -> 044309-6 | 02-JUN-22 | 22032 |

THIS DRAWING CREATED FROM 045026

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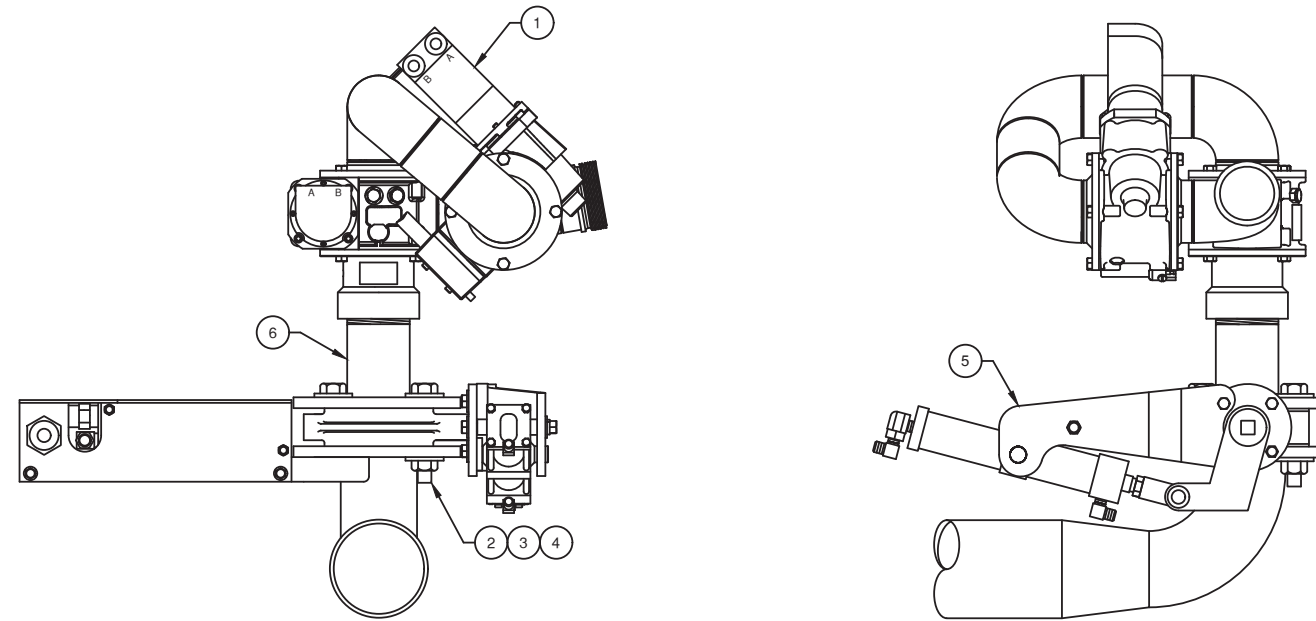
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TOLERANCE: UNLESS OTHERWISE SPECIFIED
 3 PLACES ± 0.010 2 PLACES ± 0.03 ANGULAR ± 1°

NAME OF JOB: SPRAY SYSTEM KITS
 DRAWING TITLE: MONITOR KIT ASSEMBLY (NO CONTROLS)
 SCALE: NTS DATE: 12-5-16 DWG. No.: 051159
 DRAWN BY: DSD SHEET 1 OF 1

BILL OF MATERIAL

| Find No. | Part No. | Description | Qty. | Ref. No. | Wt. |
|----------|----------|----------------------------|------|----------|-----|
| 1 | 044306 | HYDRAULIC MONITOR ASSEMBLY | 1 | | REF |
| 2 | 355536 | HCCS, M16X2.0 X110MM | 4 | | SUP |
| 3 | 355472 | NUT, HEX M16X2.0 | 4 | | SUP |
| 4 | 355266 | WASHER, FLAT M16 | 8 | | SUP |
| 5 | 011454 | ACTUATOR, 3" HYDRAULIC | 1 | | STK |
| 6 | 038441 | ADAPTER FLANGE | 1 | | STK |



922

SPRAY SYSTEMS

1. WATER CANNON IS SHIPPED CLOKED FULLY LEFT.
2. AT ITS LEFT POSITION, WATER STREAM MUST NOT HIT THE CAB OR MIRRORS.
3. AT ITS RIGHT POSITION, WATER STREAM MUST NOT HIT THE WATER TANK.
4. CLOK HYDRAULIC CONTROL MANIFOLD TO AVOID CONTACT WITH WATER TANK.
5. USE PROVIDED TRAVEL STOPS AS NEEDED (304632).

044309-6

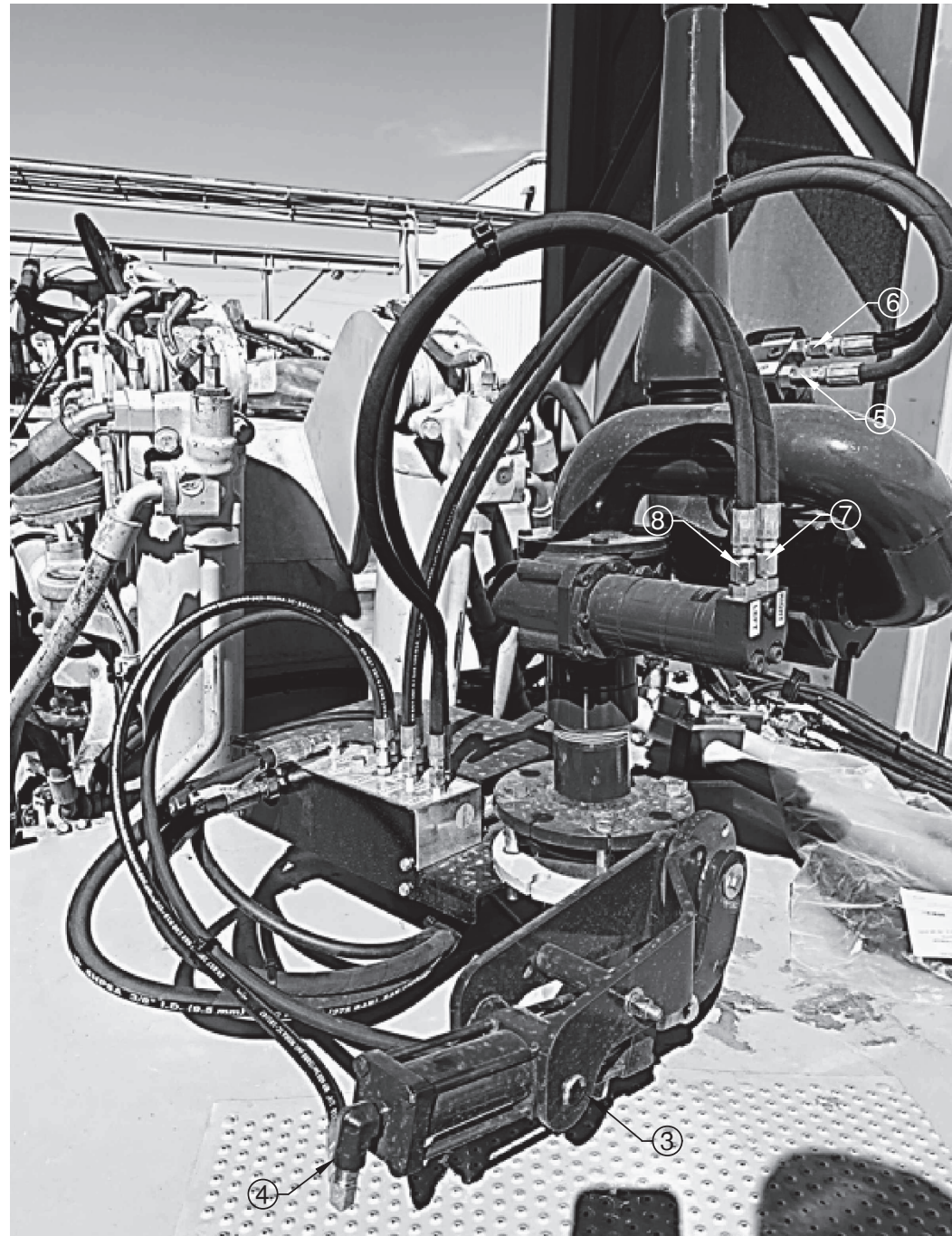
| REVISIONS | | | |
|-----------|---|------------|-------|
| REV | DESCRIPTION | DATE | ECR |
| A | ADDED 300091 | Nov-03-10 | RRH |
| B | ADDED 300822 | Jun-08-11 | 11065 |
| C | ADDED 300087 (SCHEDULE) | Sep-07-12 | RRH |
| D | METRIC HARDWARE | 31-JULY-14 | 14009 |
| E | ADDED PAGE 2 WITH VIEWS, SCHEDULE | 12-18-18 | 18125 |
| F | ADDED 053777, 053778 | 1-4-19 | DSD |
| G | REMOVED 300087, 300091 & 300822 | 3-21-22 | BC |
| H | REMOVED SHEET 2 & SWITCHED TO CONFIG. DWG | 4-18-22 | JE |



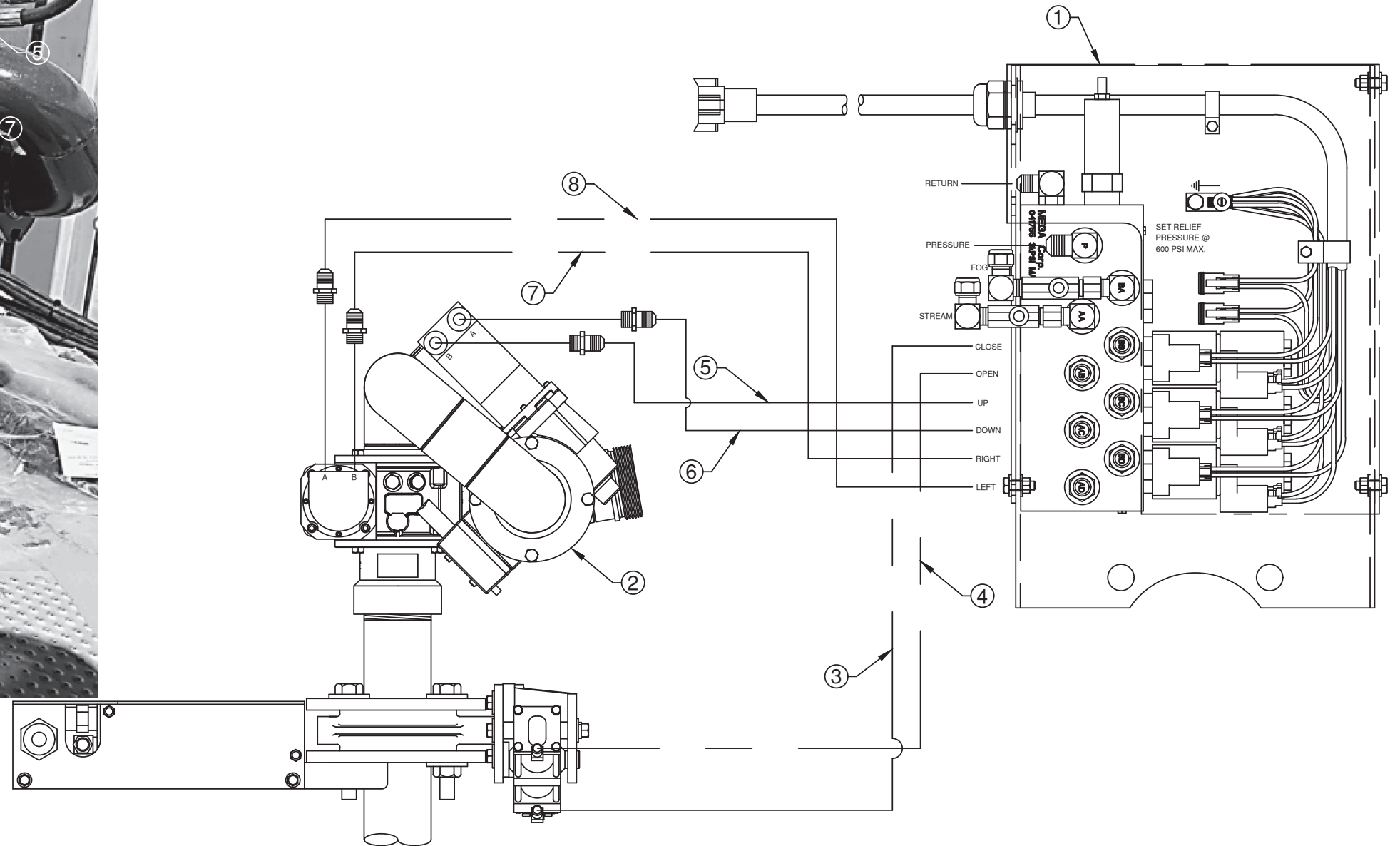
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| | | |
|---------------------------------------|--------------------------------------|-----------------|
| TOLERANCE: UNLESS OTHERWISE SPECIFIED | | |
| 3 PLACES ± 0.010 | 2 PLACES ± 0.03 | ANGULAR ± 1° |
| NAME OF JOB: | HYD REMOTE MONITOR INSTALL | |
| DRAWING TITLE: | HYD REMOTE MONITOR INSTALL W/HYD BFV | |
| SCALE: NTS | DATE: 9-22-10 | DWG. No. 044309 |
| DRAWN BY: DMG | SHEET 1 OF 1 | |



923



| BILL OF MATERIAL | | | | | |
|------------------|-----------|-----------------------------|-----|---------|-----|
| No. | Part No. | PART NAME | QTY | REF No. | WT. |
| 1 | 044293 | HYD. MON. CONTROL BOX ASSY. | 1 | | STK |
| 2 | 053976 | REMOTE MONITOR ASS'Y. | 1 | | STK |
| 3 | 044306-01 | HOSE ASSEMBLY | 1 | 042759 | STK |
| 4 | 044306-02 | HOSE ASSEMBLY | 1 | 042759 | STK |
| 5 | 044306-03 | HOSE ASSEMBLY | 1 | 042759 | STK |
| 6 | 044306-04 | HOSE ASSEMBLY | 1 | 042759 | STK |
| 7 | 044306-05 | HOSE ASSEMBLY | 1 | 042759 | STK |
| 8 | 044306-06 | HOSE ASSEMBLY | 1 | 042759 | STK |

| REVISIONS | | | |
|-----------|-----------------------------------|-----------|----------|
| REV | DESCRIPTION | DATE | APPROVED |
| A | REMOVE ITEM 3 | 04-02-11 | DE |
| B | SYSTEM PRESSURE WAS 450 MAX | 08-30-17 | 17069 |
| C | SWAPPED BFV HOSE PORTS | 10-30-17 | 17078 |
| D | 044293 TO STK | 1-25-19 | 18120 |
| E | REMOVED 352605. 053976 WAS 304952 | 2-28-19 | RRH |
| F | ADD PHOTO | 15-MAR-24 | TCS |

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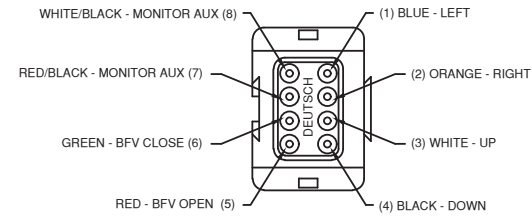
NAME OF JOB: HYDRAULIC REMOTE MONITOR ASSY.
DRAWING TITLE: HYD. CONTROL BLOCK ASSY. W/4 PORTS
SCALE: NTS DATE: 9-22-10 DWG. No. 044306
DRAWN BY: DMG SHEET 1 OF 1

BILL OF MATERIAL

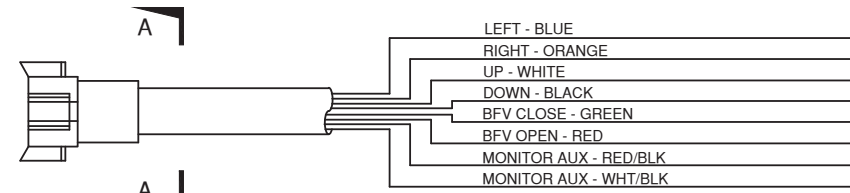
| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|-----|----------|-----------------------------|-----|---------|-----|
| 1 | 044218 | HYD. MON. CONTROL BOX ASSY. | 1 | | STK |
| 2 | 044296 | HYD. SOLENOID BLOCK ASSY. | 1 | | REF |
| 3 | 044292 | CONTROL BOX CABLE ASSY. | 1 | | STK |
| 4 | 354463 | STRAIN RELIEF, 3/4 | 1 | | STK |
| 5 | 355023 | STRAIN RELIEF, LOCK NUT 3/4 | 1 | | STK |
| 6 | 303057 | SUPPORT CLAMP 1/2 | 1 | | SUP |
| 7 | 303058 | SUPPORT CLAMP 5/8 | 1 | | SUP |
| 8 | | | | | |
| 9 | 355576 | HHCS, M6X1.0 X20MM | 3 | | SUP |
| 10 | 306813 | KEPS NUT M6X1.0 | 3 | | STK |
| 11 | 306986 | HHCS, M6X1.0 X110MM | 2 | | STK |
| 12 | 355251 | NUT, M6X1.0 | 2 | | SUP |
| 13 | 355262 | WASHER, M6 | 7 | | SUP |
| 14 | 044451 | CONNECTOR PLUG, 2 CON. | 2 | | STK |
| 15 | 353487 | CAP, -4 JIC | 6 | | SUP |

NOTES:

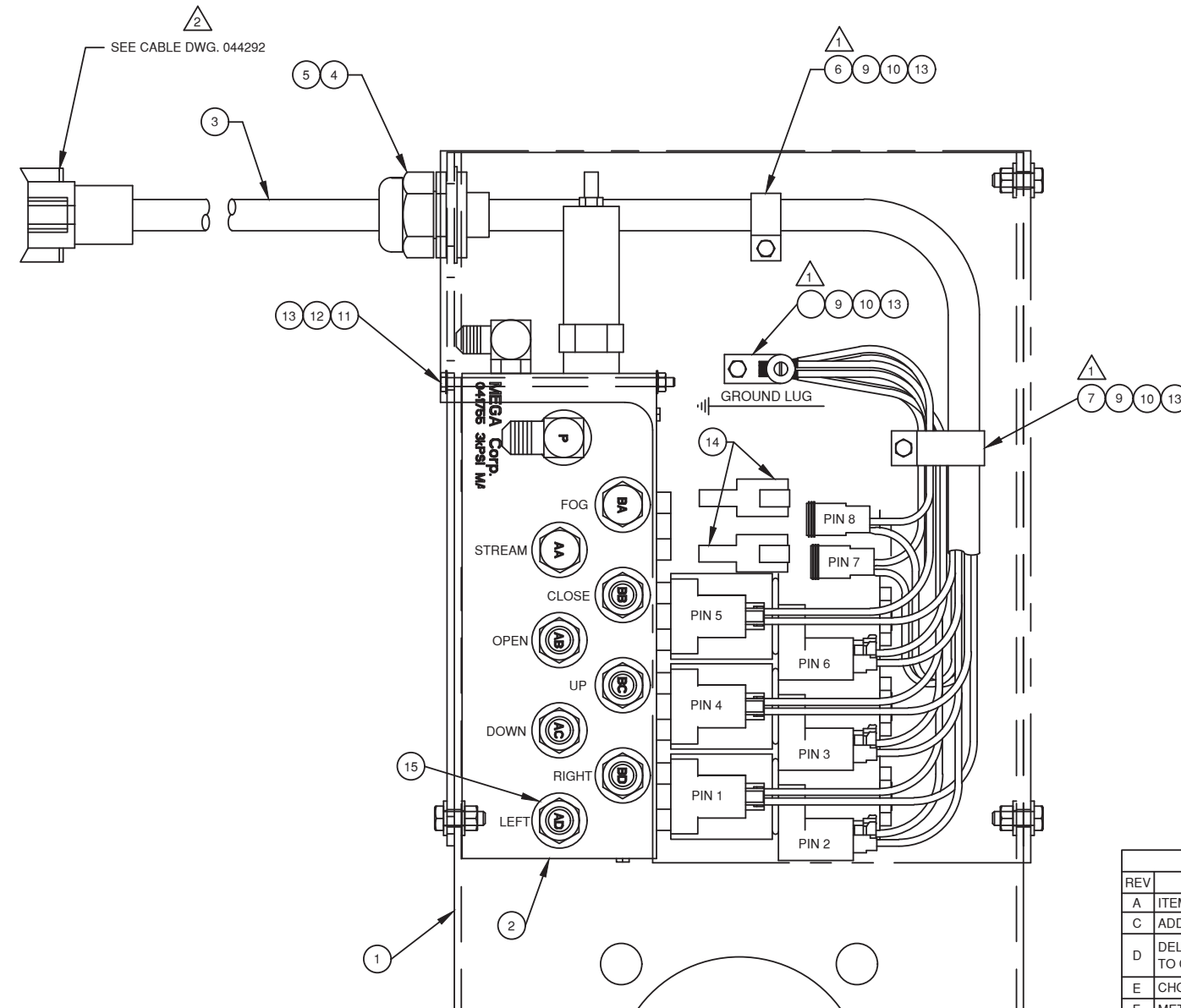
- 1. SHOP LOCATE ITEM 6, 7 & 8. DRILL AND TAP M6X1.0 -6H THRU BACK PANEL PLATE.
- 2. INSTALL RECEPTACLE, SECONDARY LOCK AND HEAT SHRINK AFTER CABLE IS THRU. STRAIN RELIEF.



VIEW A-A



CABLE COLOR CODE



| REVISIONS | | | |
|-----------|---|-----------|-------|
| REV | DESCRIPTION | DATE | ECR |
| A | ITEM 1 WAS REF | Nov-10-10 | RRH |
| C | ADDED ITEMS 15, 16, 17 | May-04-12 | JER |
| D | DELETED 15, 16, 17 ADDED NOTE TO CABLE CONNECTOR. | May-04-12 | DMG |
| E | CHGD. TO STOCK (044292, 044451) | Aug-29-12 | 12072 |
| F | METRIC HARDWARE | 17-FEB-14 | 14009 |
| G | UPDATED HARDWARE QUANTITIES REPLACED 306814 WITH 306986 | 6-26-14 | RRH |
| H | REPLACED 350058 WITH 303058 (TYPO) | 9-15-17 | RRH |
| I | RMV 305901 | 23-MAY-18 | TCS |
| J | ADDED 2X 353487 | 1-25-19 | 18120 |
| K | ADDED 6X 353487 | 3-19-19 | 18120 |
| L | UNDO REV J, ADD 044451 | JUL-08-21 | 21031 |

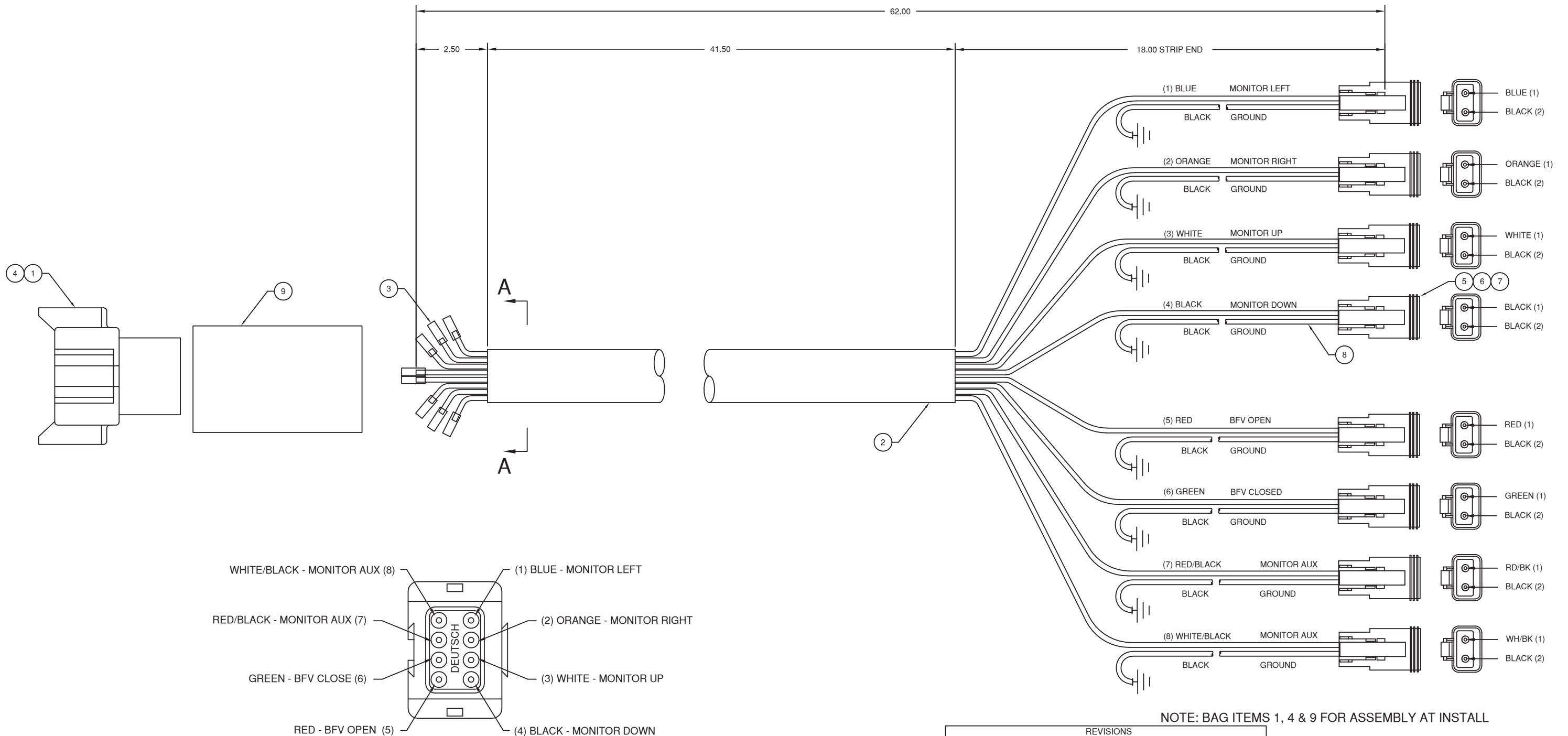
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 3 PLACES ± 0.010 2 PLACES ± 0.03 ANGULAR ± 1°

NAME OF JOB: HYDRAULIC MONITOR CONTROL
 DRAWING TITLE: HYDRAULIC MONITOR CONTROL BOX ASSEMBLY
 SCALE: NTS DATE: Sep-15-10 DWG. No. 044293
 DRAWN BY: DMG SHEET 1 OF 1

| | | | | | |
|----|--------|-----------------------------|----|--|-----|
| 1 | 304286 | RECEPTACLE, 8 PIN (DEUTSCH) | 1 | | STK |
| 2 | 303248 | CABLE, 8 COND' 16GA X 62.00 | 1 | | SUP |
| 3 | 304289 | PIN, MALE, (DEUTSCH) | 8 | | SUP |
| 4 | 304386 | SECONDARY LOCK, 8 PIN | 1 | | SUP |
| 5 | 304285 | PLUG, 2 PIN (DEUTSCH) | 8 | | STK |
| 6 | 304288 | SOCKET, FEMALE (DEUTSCH) | 16 | | SUP |
| 7 | 304385 | SECONDARY LOCK, 2 PIN | 8 | | SUP |
| 8 | 308321 | WIRE 18GA 1 COND. X 18" | 8 | | SUP |
| 9 | 305267 | SHRINK WRAP Ø1.00 X 3.00 | 1 | | SUP |
| 10 | 305901 | LUG, GROUND 1/4" | 1 | | STK |



NOTE: BAG ITEMS 1, 4 & 9 FOR ASSEMBLY AT INSTALL

| REV | DESCRIPTION | DATE | ECR |
|-----|---|-----------|---------|
| A | CHGD FROM 48 TO 36 | Nov-10-11 | DMG |
| B | CHGD TO PARTIAL ASSEMBLY, ADD #9 | Feb-14-12 | CSB |
| C | ADD 305901 | Jan-10-13 | DE |
| D | RMVD (7) 305901 | 16-OCT-13 | TCS |
| E | SUPPLY ELECTRICAL COMPONENTS | 3-14-14 | 14007 |
| F | ADDED RH WIRING VIEWS | 1-OCT-15 | CSB |
| G | RMVD (10) 305901 AGAIN | FEB-3-16 | CSB |
| H | UPDATED WIRE LENGTHS AND GAGE, ADDED OVERALL DIM. 8 CON 14 GA WIRE CHANGED TO 16 GA, 301865 TO 303248 | JUN-29-16 | LAP |
| I | 305246 (16GA) NOW 308321 18GA | 4-21-20 | RRH/DCR |

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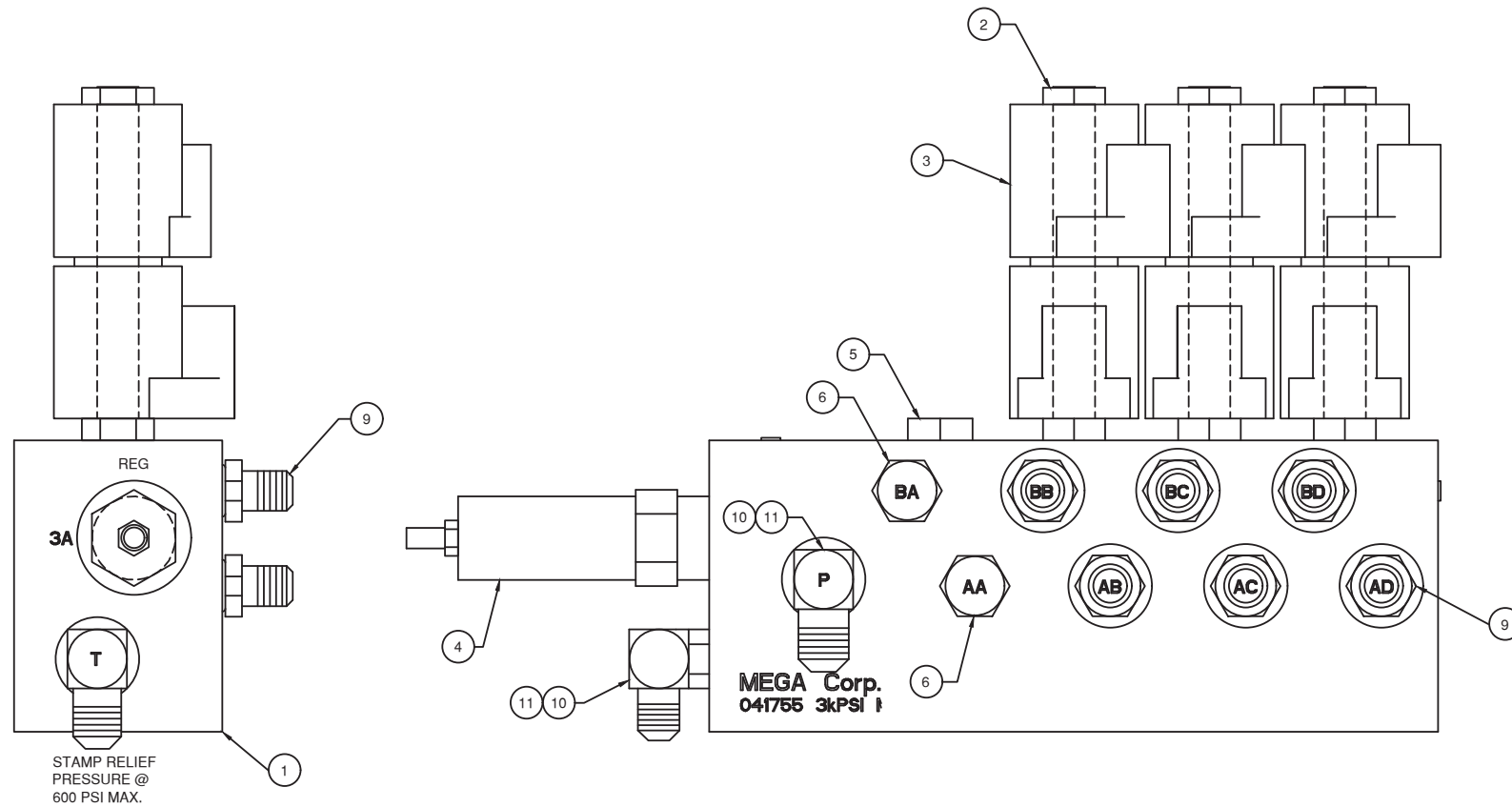
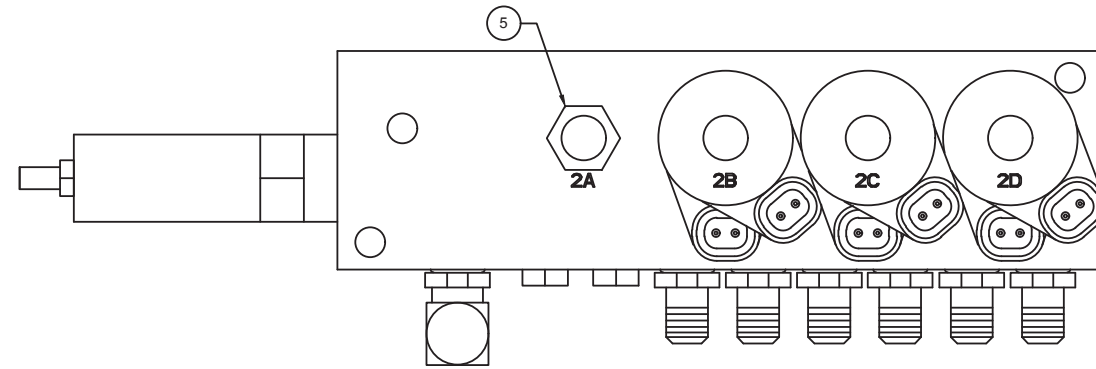
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TOLERANCE: UNLESS OTHERWISE SPECIFIED
 3 PLACES ± 0.010 2 PLACES ± 0.03 ANGULAR ± 1°

NAME OF JOB: MONITOR CABLE
 DRAWING TITLE: HYD. CONTROL MONITOR (RECEPTAL SIDE)
 SCALE: NTS DATE: Sep-15-10 DWG. No. 044292
 DRAWN BY: DMG SHEET 1 OF 1

BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|-----|----------|----------------------------------|-----|---------|-----|
| 1 | 046172 | DIRECTIONAL VALVE BLOCK (4 PORT) | 1 | | STK |
| 2 | 304858 | SOLENOID VALVE, 4W-3P | 3 | | STK |
| 3 | 305590 | COIL, 24VDC | 6 | | STK |
| 4 | 309093 | REGULATOR | 1 | | STK |
| 5 | 304860 | PORT PLUG, C-8-4 | 1 | | STK |
| 6 | 353475 | PLUG, ORB -4 | 2 | | STK |
| 7 | | | | | |
| 8 | | | | | |
| 9 | 352601 | JIC/ORB 202702-4-4 0° | 6 | | STK |
| 10 | 355611 | JIC/STOR BOSS 5P2645-6-4 90° | 2 | | STK |
| 11 | 354978 | O-RING, ORB -4 | 2 | | SUP |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | | | |



| REVISIONS | | | |
|-----------|---|-----------|-------|
| REV | DESCRIPTION | DATE | ECR |
| A | ADDED 354978 | Nov-22-10 | RRH |
| B | REPLACE 3-8NPT PLUG TO 305977 | Apr-17-12 | DE |
| C | ITEM 1 WAS 041755 | Jun-18-12 | 11135 |
| D | PRESSURE SETTING WAS 450 PSI MAX | 25-AUG-17 | 17069 |
| E | REMOVED (3) 042590 | 23-AUG-18 | 16049 |
| F | ADDED 1X 304858, 2X 305590, 1X 355424, 1X 352481, 2X 305902, 2X 300283, 2X 352436 REMOVED 2X 353475, 1X 304860 | 25-JAN-19 | 18120 |
| G | CORRECTED QTY ON 304858 & 305590 | 20-FEB-19 | CSB |
| H | REPLACED 304861 WITH 309093 | 6-7-19 | 18108 |
| I | UNDO REV F | JUL-08-21 | 21031 |

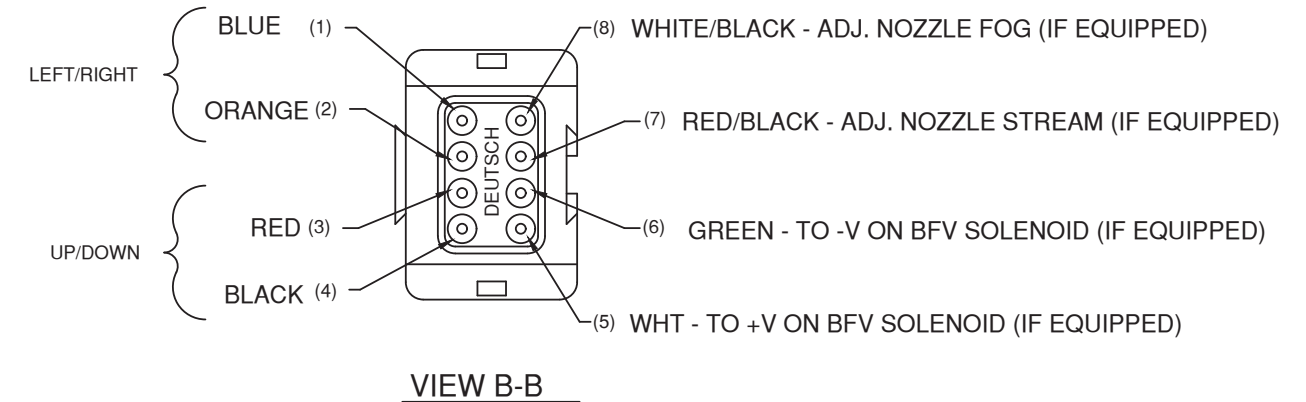
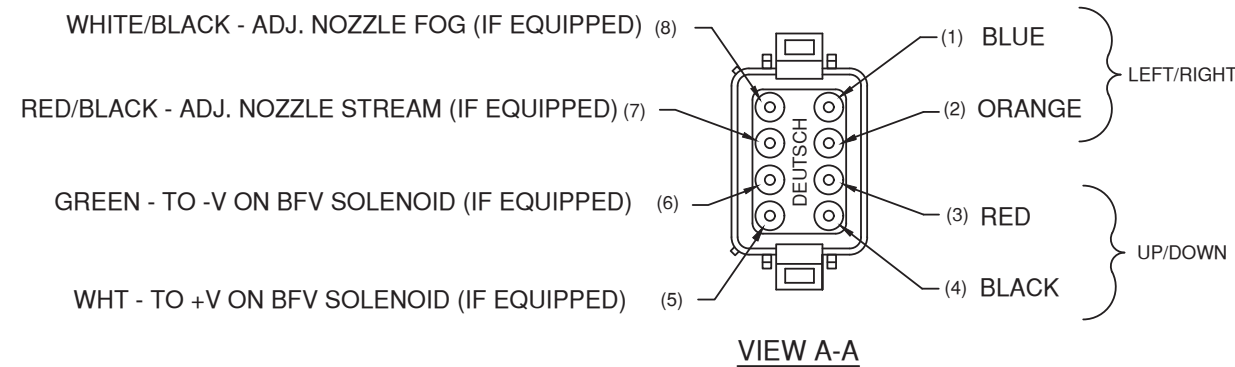
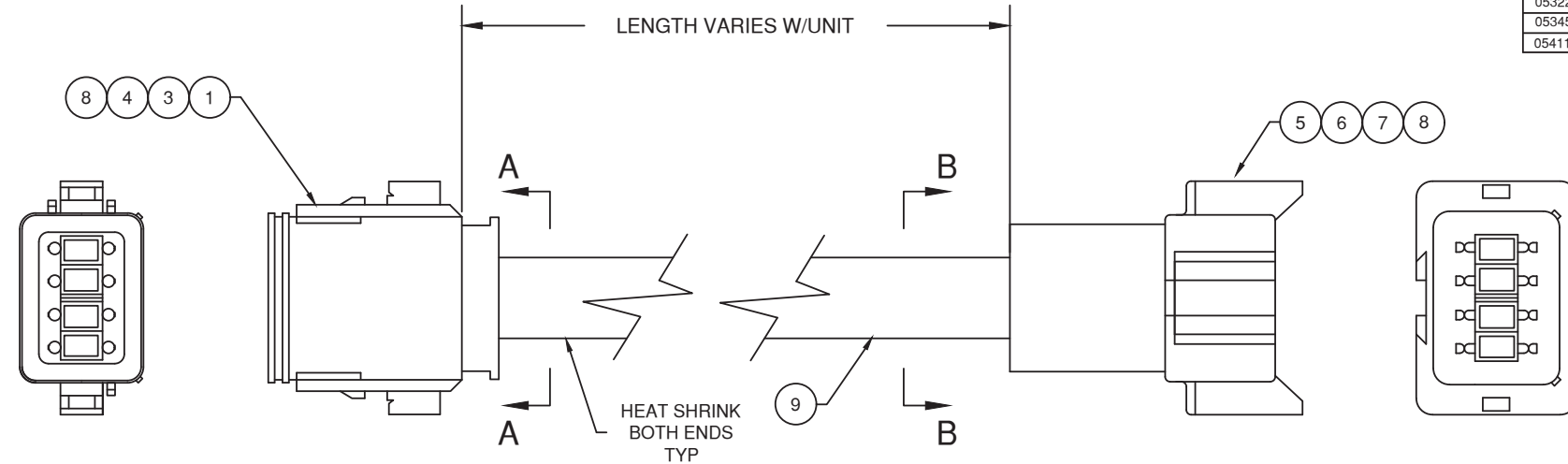


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| | | |
|---|-----------------|-----------------|
| TOLERANCE: UNLESS OTHERWISE SPECIFIED | | |
| 3 PLACES ± 0.010 | 2 PLACES ± 0.03 | ANGULAR ± 1° |
| NAME OF JOB: HYDRAULIC SOLENOID BLOCK ASSY., W/4 PORT | | |
| DRAWING TITLE: HYDRAULIC REMOTE MONITOR | | |
| SCALE: NTS | DATE: Sep-16-10 | DWG. No. 044296 |
| DRAWN BY: DMG | SHEET 1 OF 1 | |

BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|--------|----------|-----------------------------|-----|---------|-----|
| 1 | 305007 | PLUG, 8 PIN (DEUTSCH) | 1 | | STK |
| 2 | | | | | |
| 3 | 304288 | SOCKET, FEMALE, (DEUTSCH) | 8 | | SUP |
| 4 | 304387 | SECONDARY LOCK, 8 SOCKET | 1 | | SUP |
| 5 | 304286 | RECEPTICLE, 8 PIN (DEUTSCH) | 1 | | STK |
| 6 | 303366 | PIN, MALE, (DEUTSCH) | 8 | | SUP |
| 7 | 304386 | SECONDARY LOCK, 8 PIN | 1 | | SUP |
| 8 | | HEATSHRINK | | | SUP |
| 040955 | 9 303248 | CABLE, 8 COND' 16GA X 16' | 1 | | SUP |
| 043938 | 9 303248 | CABLE, 8 COND' 16GA X 10' | 1 | | SUP |
| 044087 | 9 303248 | CABLE, 8 COND' 16GA X 8' | 1 | | SUP |
| 044344 | 9 303248 | CABLE, 8 COND' 16GA X 36' | 1 | | SUP |
| 044909 | 9 303248 | CABLE, 8 COND' 16GA X 60' | 1 | | SUP |
| 044978 | 9 303248 | CABLE, 8 COND' 16GA X 6" | 1 | | SUP |
| 047122 | 9 303248 | CABLE, 8 COND' 16GA X 2' | 1 | | SUP |
| 049476 | 9 303248 | CABLE, 8 COND' 16GA X 12' | 1 | | SUP |
| 053131 | 9 303248 | CABLE, 8 COND' 16GA X 3' | 1 | | SUP |
| 053229 | 9 303248 | CABLE, 8 COND' 16GA X 105" | 1 | | SUP |
| 053454 | 9 303248 | CABLE, 8 COND' 16GA X 4' | 1 | | SUP |
| 054118 | 9 303248 | CABLE, 8 COND' 16GA X 13' | 1 | | SUP |



NOTE: FOR AKRON HYD. MONITOR

PRODUCED FROM 039329

| REVISIONS | | | |
|-----------|------------------------------|----------|----------|
| REV | DESCRIPTION | DATE | APPROVED |
| A | ADDED SCHEDULE | 04/29/10 | LAP |
| B | ADDED 044087 | 08/02/10 | LAP |
| C | ADDED 044344 | 10/12/10 | LAP |
| D | ADDED 044909 | 4/26/11 | DMG |
| E | ADDED 044978 | 5-4-11 | RRH |
| F | ADDED 047122 | 4-3-13 | LAP |
| G | SUPPLY ELECTRICAL COMPONENTS | 3-7-14 | 14007 |
| H | ADDED 054118 | 05/01/19 | JTI |



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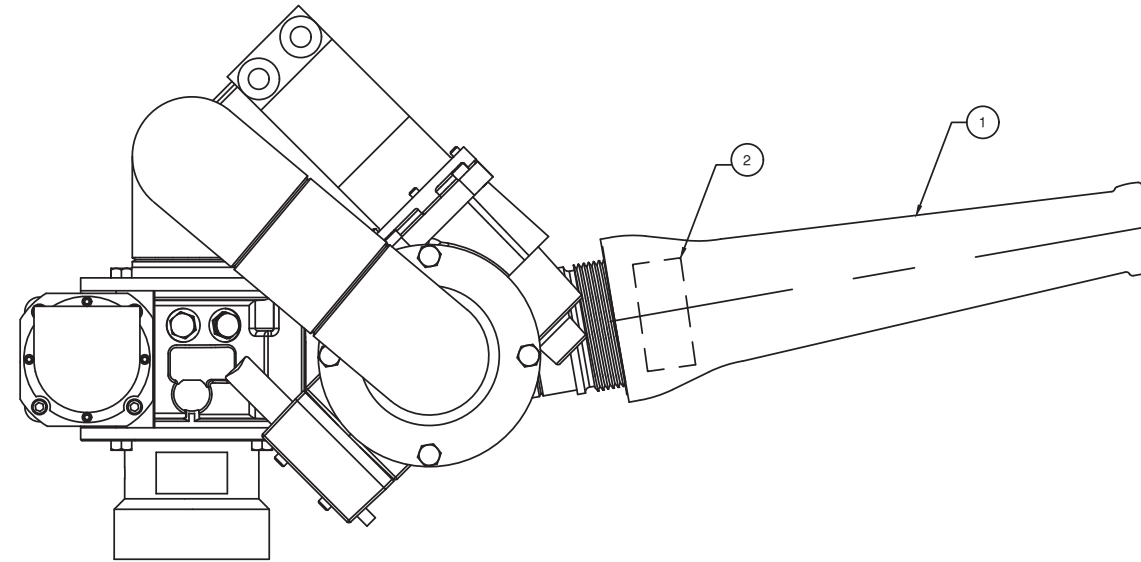
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|---|-----------------|-----------------|
| TOLERANCE: UNLESS OTHERWISE SPECIFIED | | |
| 3 PLACES ± 0.010 | 2 PLACES ± 0.03 | ANGULAR ± 1° |
| NAME OF JOB: HYD. MONITOR INSTALL (MONITOR TO TERMINAL BOX) | | |
| DRAWING TITLE: MONITOR CABLE 24V | | |
| SCALE: NTS | DATE: 6-07-07 | DWG. NO. 040955 |
| DRAWN BY: DMG | SHEET 1 OF 1 | |

BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|-----|----------|-----------------------------|-----|---------|-----|
| 1 | 300091 | MONITOR TIP 1-1/2" | 1 | | STK |
| 2 | 300822 | INSERT, STREAM STRAIGHTENER | 1 | | STK |

925



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TOLERANCE: UNLESS OTHERWISE SPECIFIED

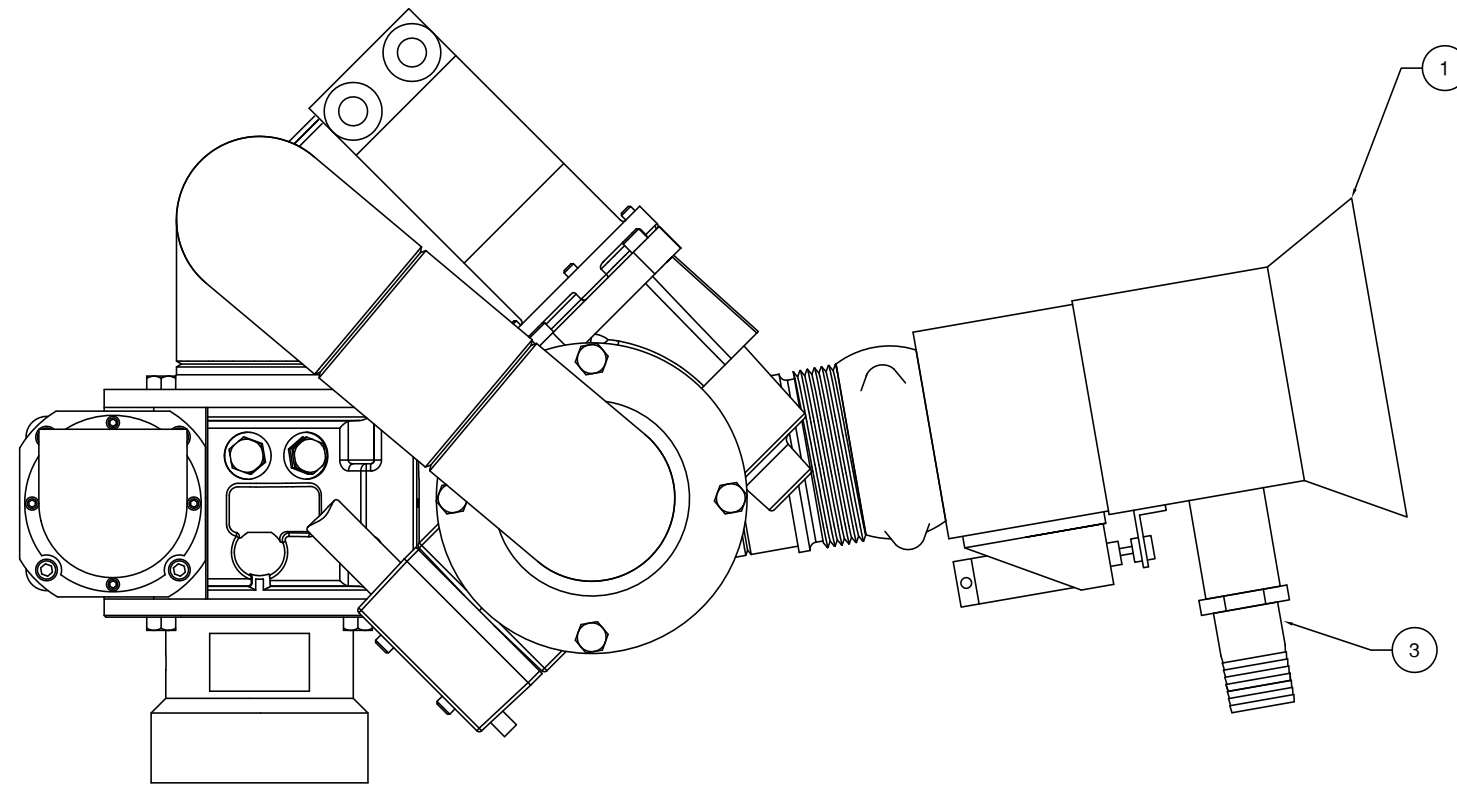
3 PLACES ± 0.010 2 PLACES ± 0.03 ANGULAR ± 1°

NAME OF JOB: MONITOR TIP INSTALL 1 1/2"

| REVISIONS | | | | DRAWING TITLE: | | |
|-----------|--------------|----------|----------|----------------|--------------|-----------|
| REV | DESCRIPTION | DATE | APPROVED | SCALE: | DATE: | DWG. No.: |
| A | REVISED VIEW | 10-15-10 | LAP | 1/2=0-1 | 1-29-10 | 043569 |
| B | ADDED 300822 | 6-8-11 | 11065 | DRAWN BY: RRH | SHEET 1 OF 1 | |

BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|-----|----------|---------------------------------|-----|---------|-----|
| 1 | 305876 | HYD. ADJ. NOZZLE W/FOAM | 1 | | STK |
| 2 | 044294 | ADJ. NOZZLE HOSE & WIRE INSTALL | 1 | | REF |
| 3 | 044378 | HOSE NIPPLE, 1 1/4" | 1 | | STK |



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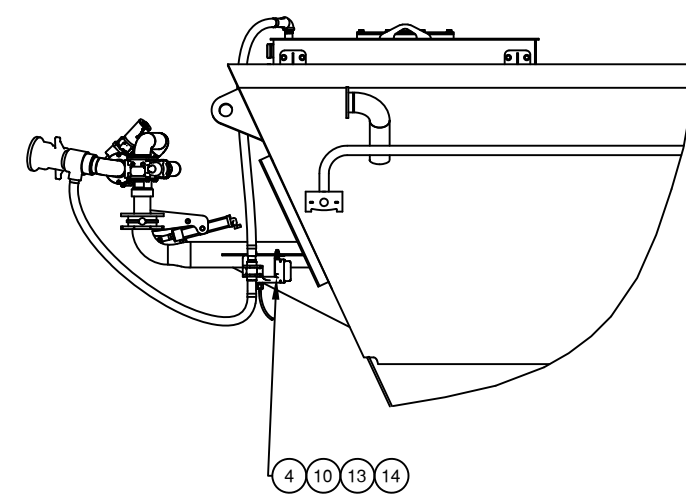
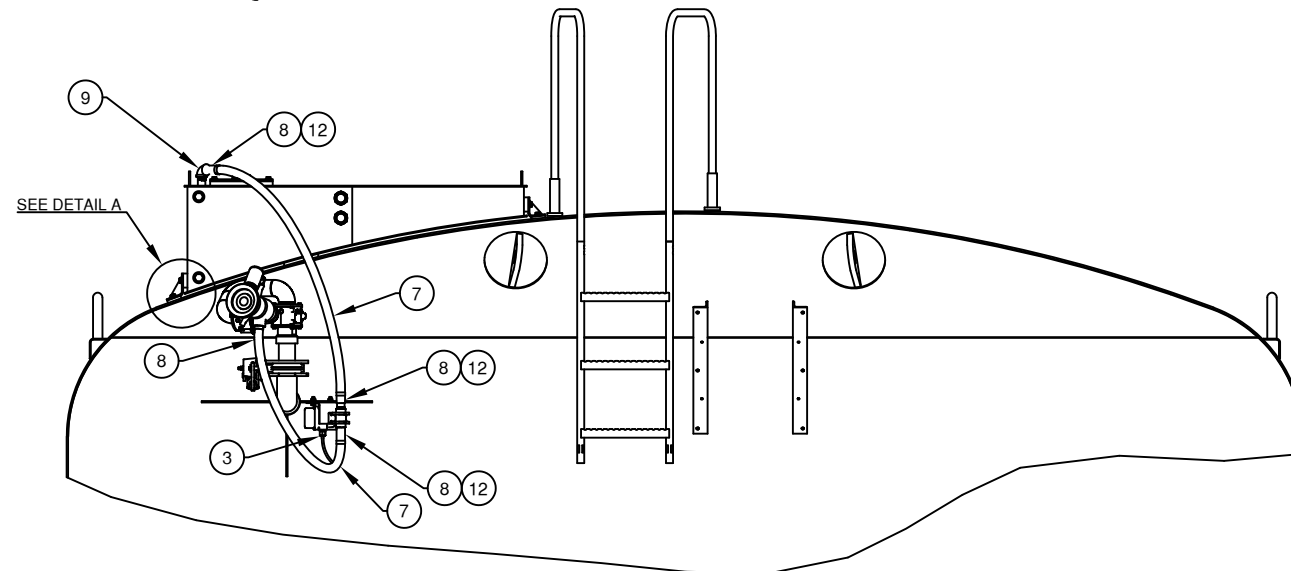
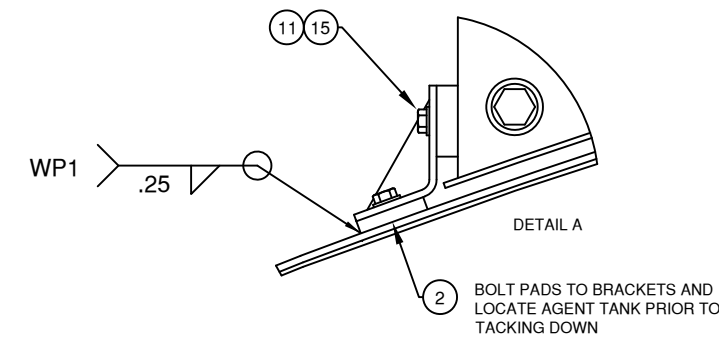
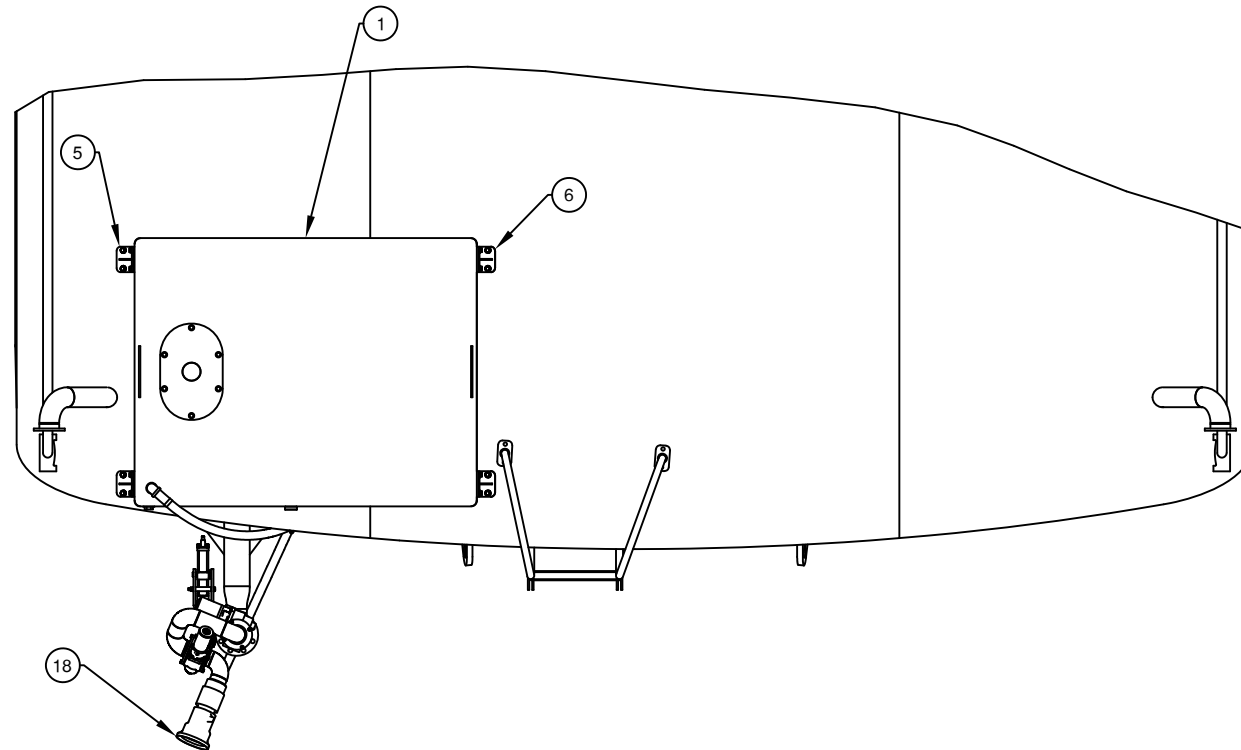
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| REV. | DESCRIPTION | DATE | APPROVED |
|------|------------------------------|----------|----------|
| A | ITEM 2 WAS 043566 NOW 044294 | 10-13-10 | DMG |
| B | REVISED VIEW | 10-15-10 | LAP |
| C | ADDED ITEM 3 | 11-12-10 | LAP |
| D | ITEM 2 WAS 044294 NOW 043566 | 11-15-10 | LAP |
| E | 044294 WAS 043566 | 7-22-13 | RRH |

| TOLERANCE: UNLESS OTHERWISE SPECIFIED | | | |
|--|-----------------|------------------|--|
| 3 PLACES ± 0.010 | 2 PLACES ± 0.03 | ANGULAR ± 1° | |
| DRAWING TITLE: ADJ. NOZZLE W/FOAM INSTALL OPTION | | | |
| SCALE: 1/2"=0'-1" | DATE: Jan-29-10 | DWG. No.: 043568 | |
| DRAWN BY: RRH | SHEET 1 OF 1 | | |

BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|--------|-----------|-----------------------------------|-----|---------|------|
| 051219 | 1 051270 | FOAM AGENT TANK 60 GALLON, LONG | 1 | | REF |
| 051229 | 1 049200 | FOAM AGENT TANK 60 GALLON, WIDE | 1 | | REF |
| 051239 | 1 050223 | FOAM AGENT TANK 120 GALLON | 1 | | REF |
| 051249 | 1 049783 | FOAM AGENT TANK 200 GALLON LH | 1 | | REF |
| 052394 | 1 053225 | FOAM AGENT TANK 200 GALLON RH | 1 | | REF |
| 2 | 049010 | LADDER, WELDON PLATE | 4 | | STK |
| 3 | 043515 | ACTUATOR ASSEMBLY E/H | 1 | | REF |
| 4 | 045049 | ACTUATOR BRACKET | 1 | | REF |
| 5 | 050229 | MOUNTING BRACKET OUTBOARD | 2 | | REF |
| 6 | 050231 | MOUNTING BRACKET, INBOARD | 2 | | REF |
| 7 | 051219-01 | CLEAR HOSE, 1.25X100" | 2 | 302815 | |
| 8 | 300635 | CLAM, WORM DRIVE | 4 | | SPLY |
| 9 | 309638 | ELBOW, NPT 1" SS SCH 40 | 1 | | STK |
| 10 | 355264 | WASHER, M10 | 4 | | SPLY |
| 11 | 355265 | WASHER, M12 | 16 | | SPLY |
| 12 | 309637 | NIPPLE, KC SS 1.25" HOSE X 1" NPT | 3 | | STK |
| 13 | 355476 | HHCS, M10X1.5X30MM | 2 | | SPLY |
| 14 | 355491 | LOCKNUT, M10X1.5 | 2 | | SPLY |
| 15 | 355517 | HHCS, M12X1.75X20MM | 16 | | SPLY |
| 16 | 052183 | GROUND LEVEL FILL | 1 | | REF |
| 17 | 052187 | SWITCH KIT, FOR MEGA BOXES | 1 | | REF |
| 18 | 043568 | FOAM NOZZLE KIT | 1 | | REF |



BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|--------|-----------|-----------------------------------|-----|---------|------|
| 055527 | 1 051270 | FOAM AGENT TANK 60 GALLON, LONG | 1 | | REF |
| 055528 | 1 049200 | FOAM AGENT TANK 60 GALLON, WIDE | 1 | | REF |
| 055529 | 1 050223 | FOAM AGENT TANK 120 GALLON | 1 | | REF |
| 055530 | 1 049783 | FOAM AGENT TANK 200 GALLON LH | 1 | | REF |
| 055531 | 1 053225 | FOAM AGENT TANK 200 GALLON RH | 1 | | REF |
| 2 | 049010 | LADDER, WELDON PLATE | 4 | | STK |
| 3 | 053562 | ACTUATOR ASSEMBLY DISCS | 1 | 043515 | REF |
| 4 | 045049 | ACTUATOR BRACKET | 1 | | REF |
| 5 | 050229 | MOUNTING BRACKET OUTBOARD | 2 | | REF |
| 6 | 050231 | MOUNTING BRACKET, INBOARD | 2 | | REF |
| 7 | 051219-01 | CLEAR HOSE, 1.25X100" | 2 | 302815 | |
| 8 | 300635 | CLAM, WORM DRIVE | 4 | | SPLY |
| 9 | 309638 | ELBOW, NPT 1" SS SCH 40 | 1 | | STK |
| 10 | 355264 | WASHER, M10 | 4 | | SPLY |
| 11 | 355265 | WASHER, M12 | 16 | | SPLY |
| 12 | 309637 | NIPPLE, KC SS 1.25" HOSE X 1" NPT | 3 | | STK |
| 13 | 355476 | HHCS, M10X1.5X30MM | 2 | | SPLY |
| 14 | 355491 | LOCKNUT, M10X1.5 | 2 | | SPLY |
| 15 | 355517 | HHCS, M12X1.75X20MM | 16 | | SPLY |
| 16 | 052183 | GROUND LEVEL FILL | 1 | | REF |
| 17 | 052187 | SWITCH KIT, FOR MEGA BOXES | 1 | | REF |
| 18 | 043568 | FOAM NOZZLE KIT | 1 | | REF |

NOTE: AGENT AND WATER TANKS ARE FOR REFERENCE ONLY. DETERMINE APPROPRIATE MOUNTING LOCATION AT INSTALL. LARGER FOAM TANKS MUST BE MOVED TO THE REAR OF THE LADDER HANDRAIL AND VSS TANK IS NOT DESIGNED WITH RESPECT TO SPLASH GUARDS, HAND RAIL SYSTEMS OR WATER CONTAINMENT STRUCTURES.

| REVISIONS | | | |
|-----------|---|----------|----------|
| REV | DESCRIPTION | DATE | APPROVED |
| A | ADDED 052183 & 052187 | 9-1-17 | NORM |
| B | ADDED 052394 | 10-19-17 | CSB |
| C | #1 ON 052394 WAS 052427 | 11-9-17 | CSB |
| D | 052394 -> 053225 | 9-5-18 | DSD |
| E | REMOVED 043515 | 11-16-18 | 18100 |
| F | ADDED 043515 & DISC CONFIG | 7/23/20 | CSB |
| G | ADDED NOZZLE KIT 043568 | 8/14/20 | CSB |
| H | 1x350688 -> 309638, 3x 355426 -> 309637 | 3-22-22 | 20023 |

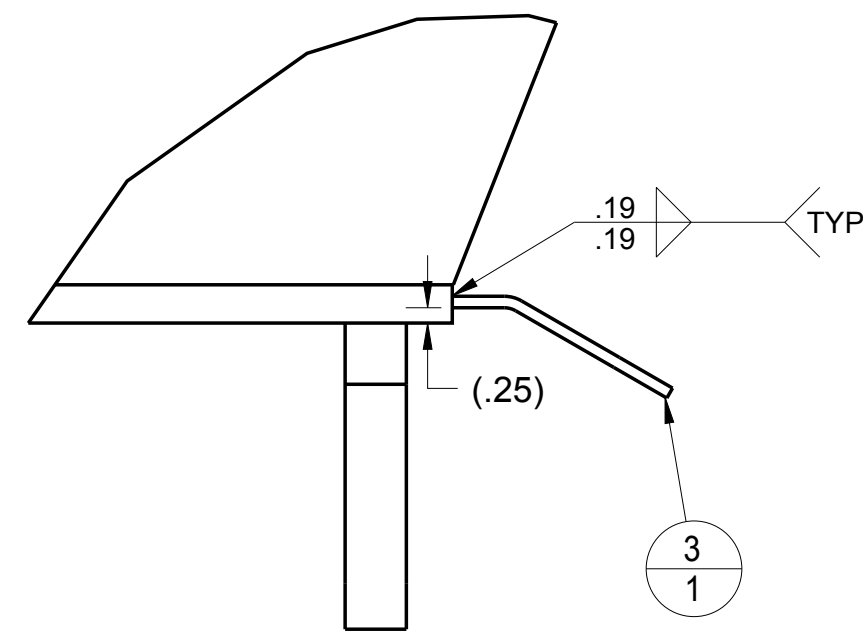


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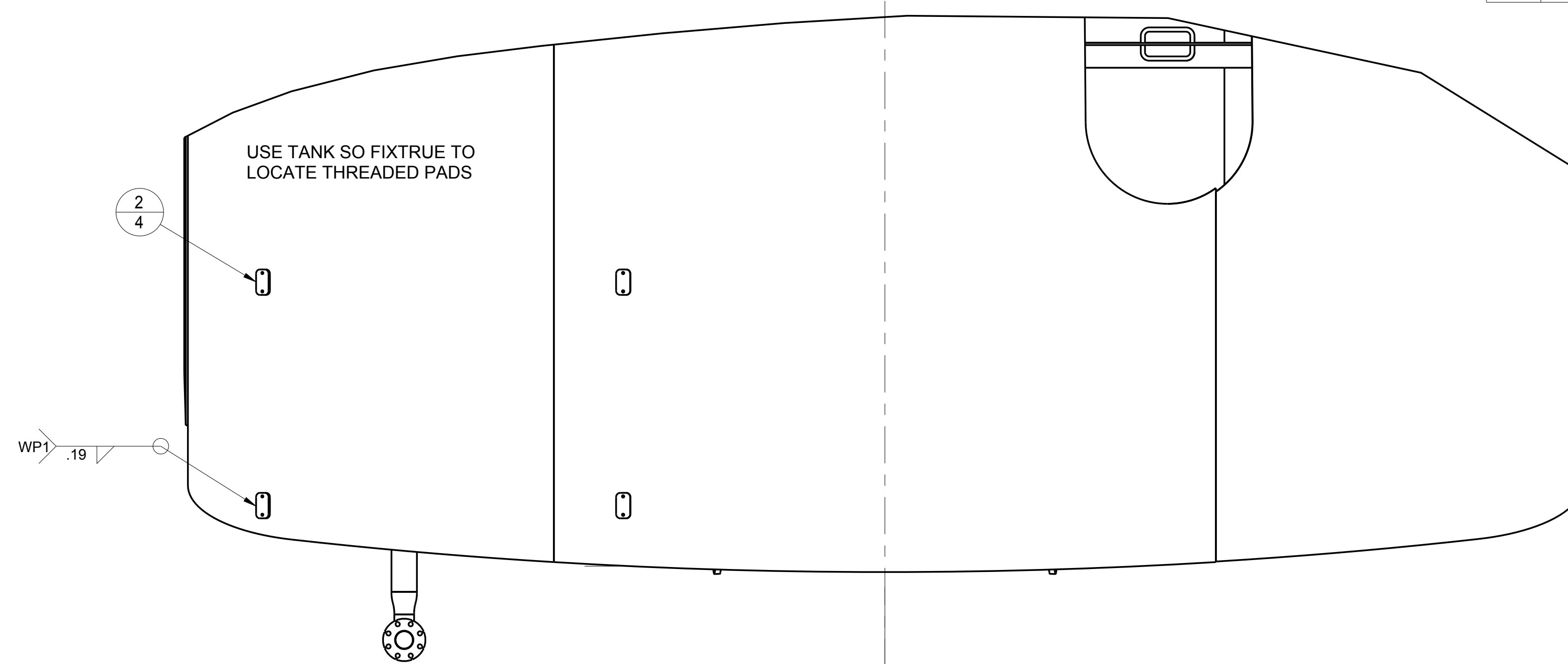
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|---------------------------------------|--|------------------|--|--|--|--------------|--|
| TOLERANCE: UNLESS OTHERWISE SPECIFIED | | 3 PLACES ± 0.010 | | 2 PLACES ± 0.03 | | ANGULAR ± 1° | |
| NAME OF JOB: SPRAY SYSTEMS | | | | DRAWING TITLE: FOAM KIT INSTALL, NO NOZZLE E/H & DISCS | | | |
| SCALE: NTS | | DATE: 12-12-16 | | DWG. No.: | | 051219 | |
| DRAWN BY: DSD | | SHEET 1 OF 1 | | | | | |

| ITEM | PART NO. | PART NAME | QTY | REF NO. | IND. WT. |
|------|----------|-------------------------|-----|---------|----------|
| 1 | 049008 | STANDOFF, M10X1.5 X25MM | 6 | | STK |
| 2 | 049010 | LADDER WELD-ON PLATE | 4 | | STK |
| 3 | 052186 | A36 PLATE .19" | 1 | | REF |

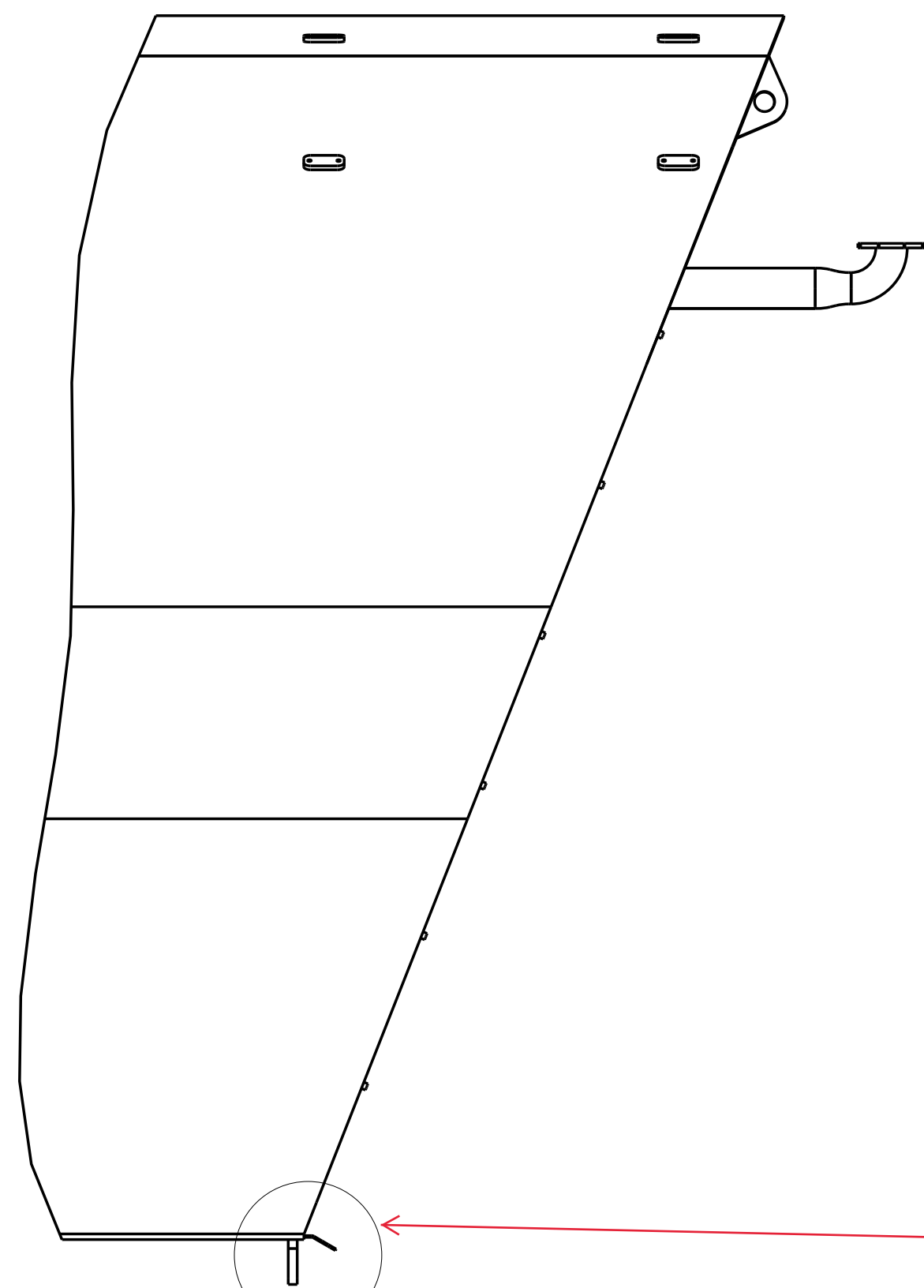


DETAIL A
SCALE 0.350

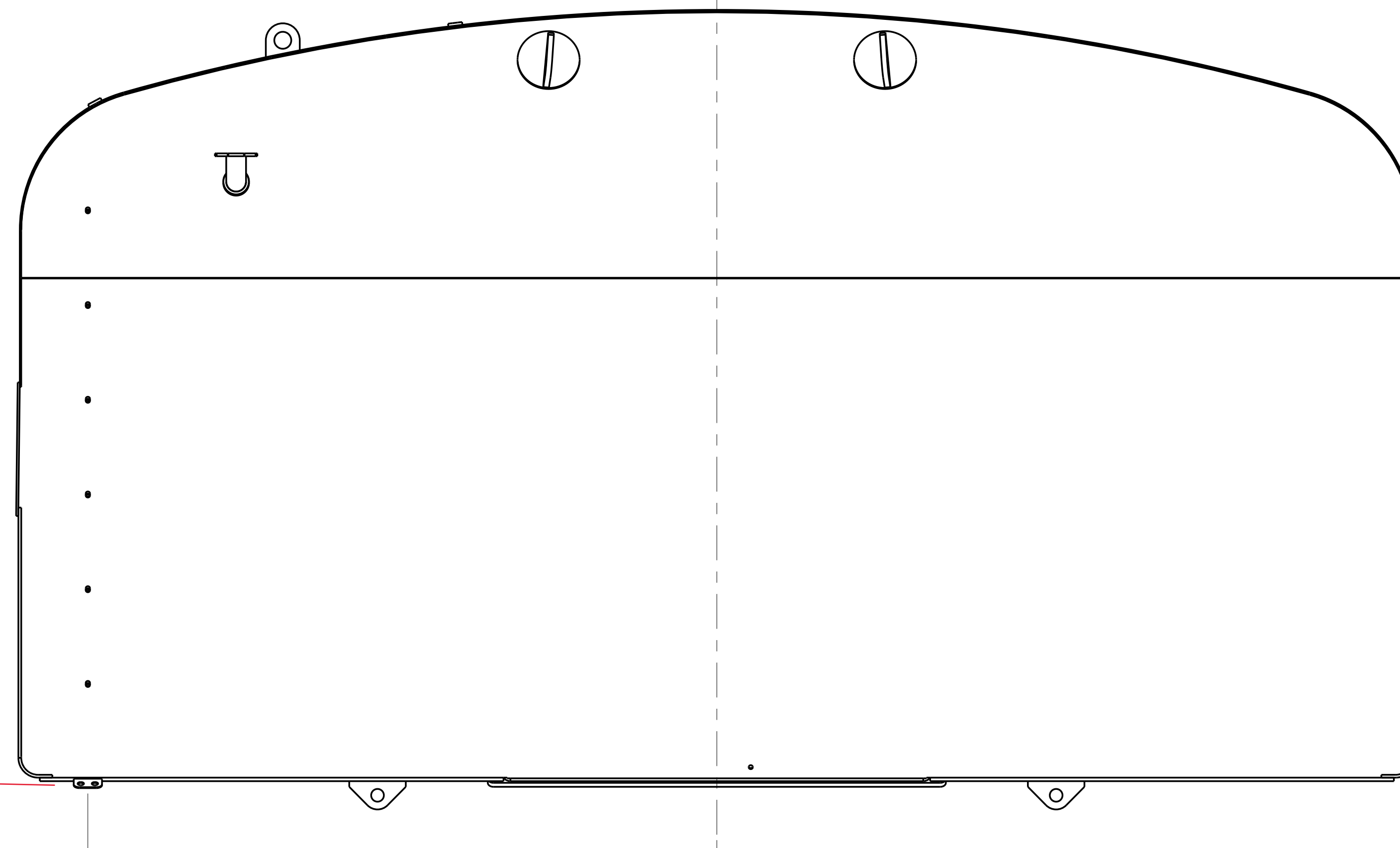



CUSTOMER IS TO SELECT SUITABLE LOCATION FOR FOAM AGENT TANK

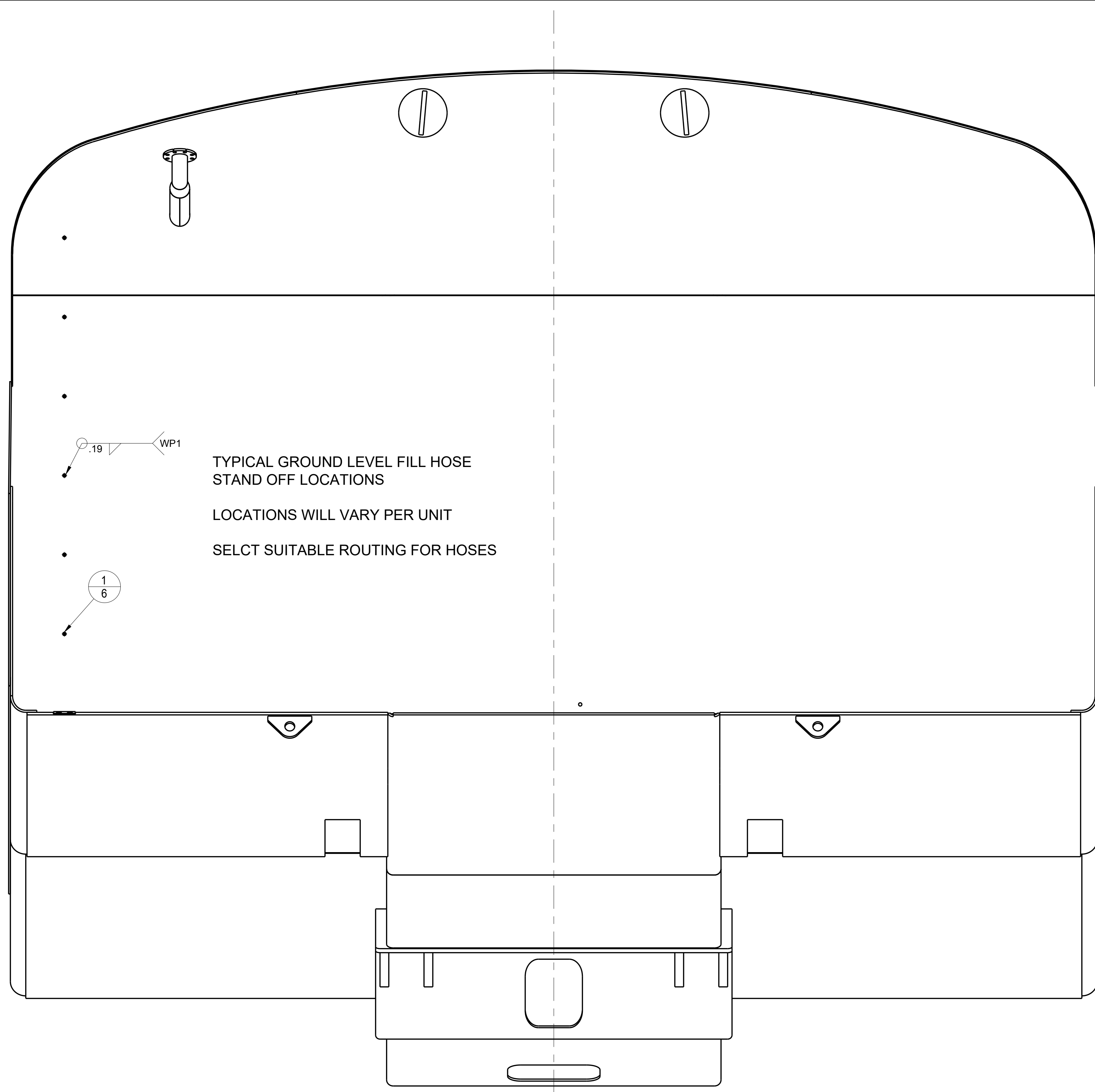
LOCATION WILL VARY WITH UNIT



SEE DETAIL A



| | | | |
|---|---|------------------|--|
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| | TOLERANCE: UNLESS OTHERWISE SPECIFIED | | |
| 3 PLACES ± 0.010 | | 2 PLACES ± 0.030 | ANGULAR ± 1° |
| DWG. TITLE: CAT 785 MTT30, FOAM, 120/200 GALLON, WELDON | | | |
| SCALE: NTS | DATE: Aug-22-18 | DWG. NO. 053443 | |
| DRAWN BY: RRH | SHEET 1 OF 2 | | |




TYPICAL GROUND LEVEL FILL HOSE
STAND OFF LOCATIONS

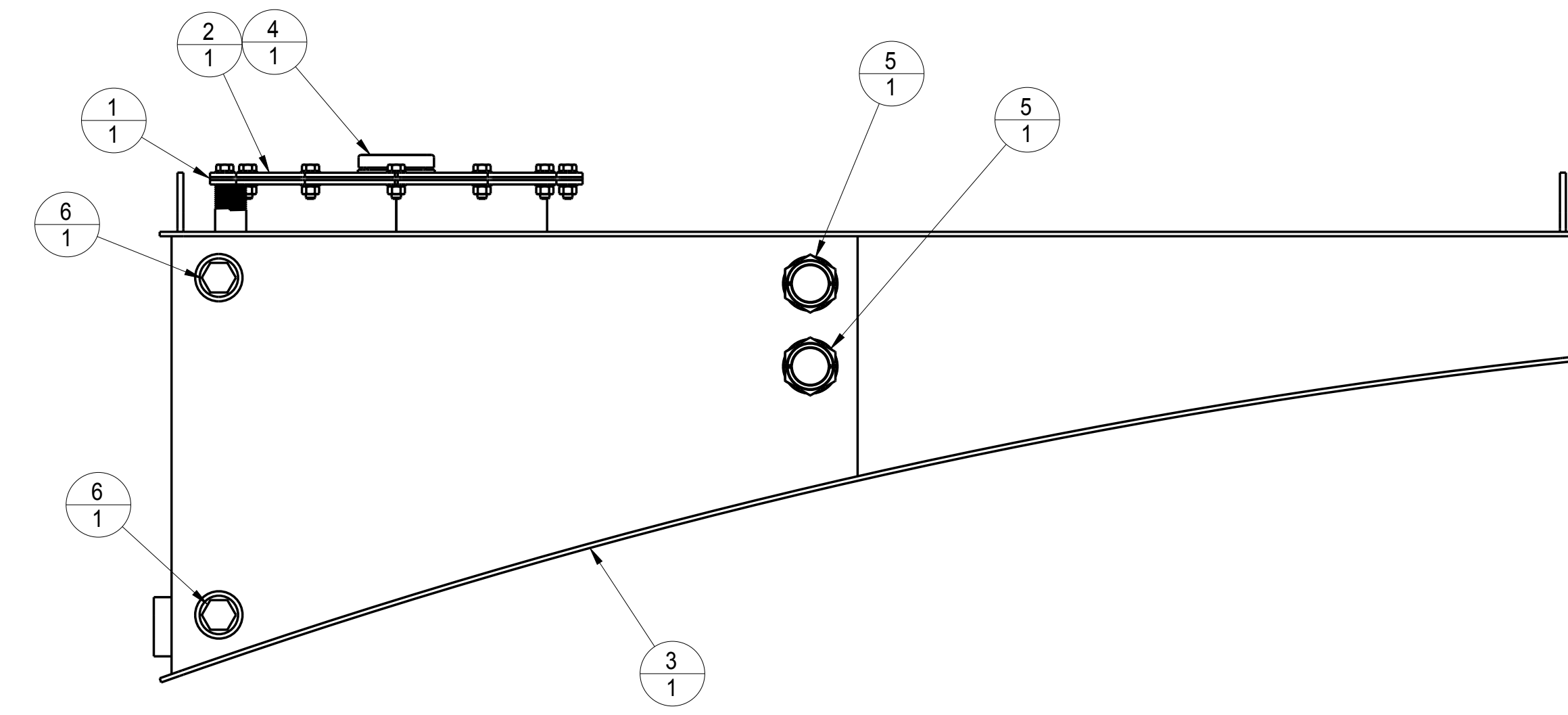
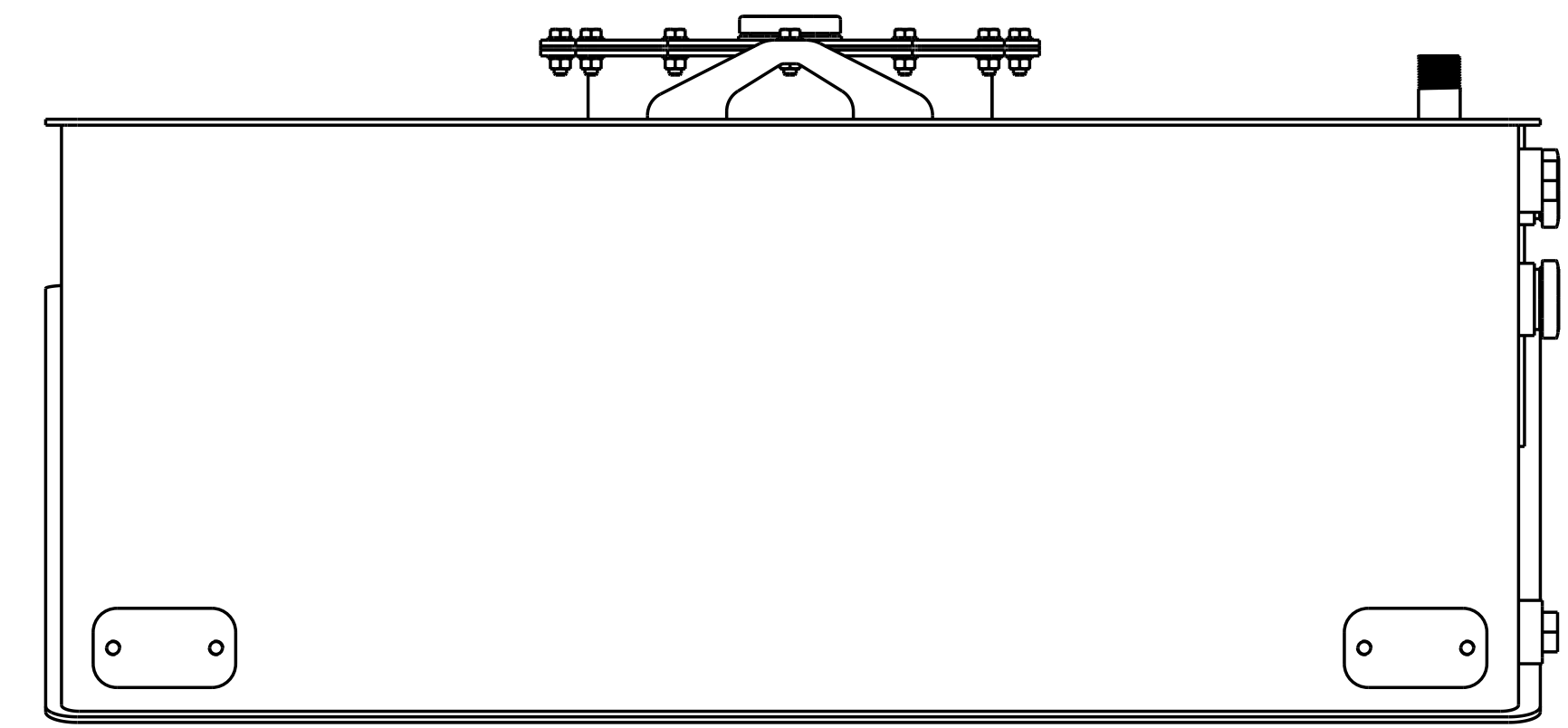
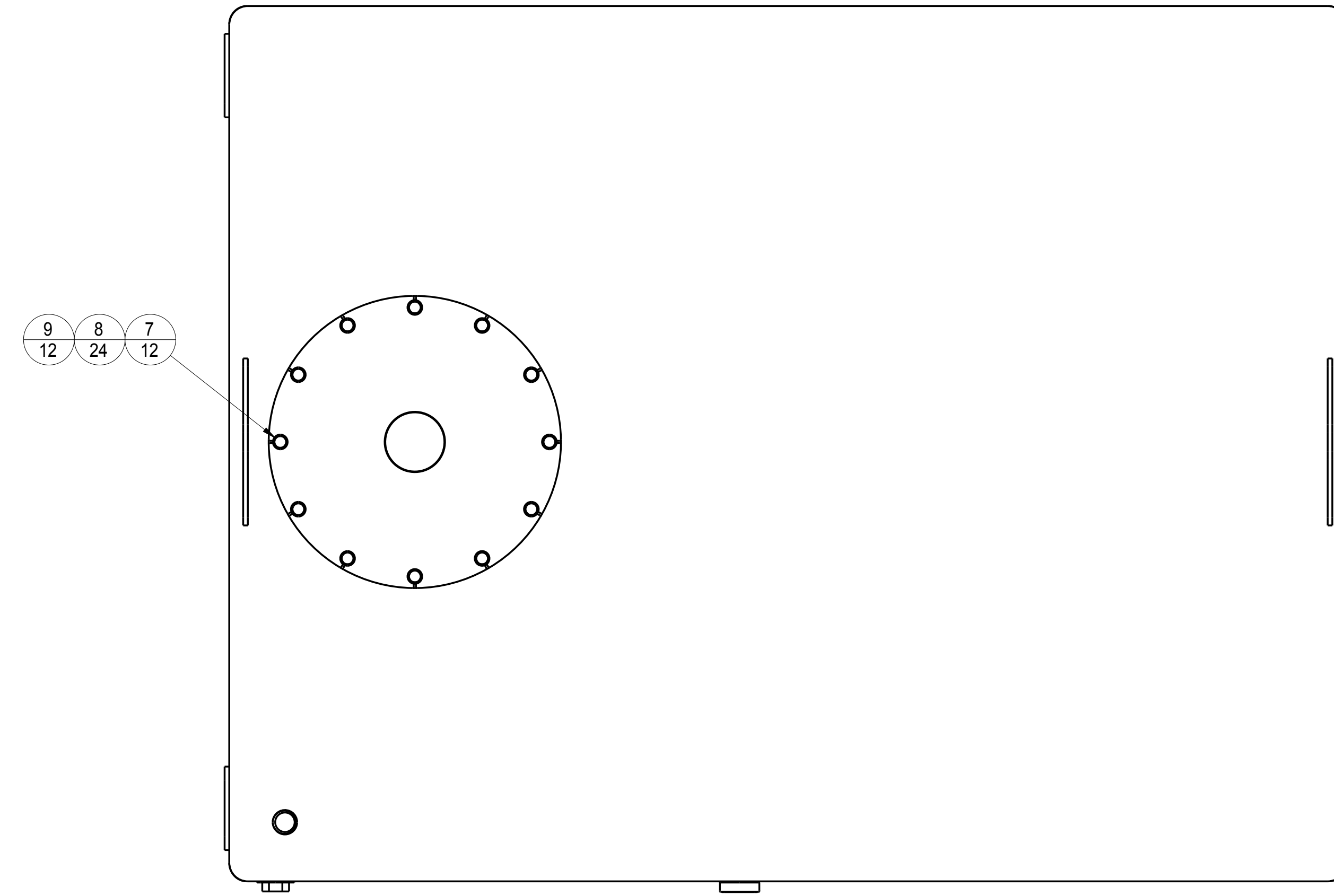
LOCATIONS WILL VARY PER UNIT

SELECT SUITABLE ROUTING FOR HOSES

VIEW WITH FRONT HEAD FLAT

| | | | |
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| | TOLERANCE: UNLESS OTHERWISE SPECIFIED | | |
| | 3 PLACES ± 0.010 | 2 PLACES ± 0.030 | ANGULAR ± 1° |
| DWG. TITLE: CAT 785 MTT30, FOAM, 120/200 GALLON, WELDON | | | |
| SCALE: NTS | DATE: Aug-22-18 | DWG. NO. 053443 | |
| DRAWN BY: RRH | SHEET 2 OF 2 | | |

| ITEM | PART NO. | PART NAME | QTY | REF NO. | IND. WT. |
|------|----------|----------------------------|-----|---------|----------|
| 1 | 049597 | GASKET, NEOPRENE 1/8 | 1 | | REF |
| 2 | 049598 | PLATE, A304 SS .19 | 1 | | REF |
| 3 | 050222 | 120 GALLON FOAM AGENT TANK | 1 | | REF |
| 4 | 300242 | FILLER CAP | 1 | | STK |
| 5 | 306477 | 1-1/2" SIGHT WINDOW | 2 | | STK |
| 6 | 353480 | PLUG, ORB -12 | 2 | | STK |
| 7 | 355254 | NUT, M10X1.5 | 12 | | SPLY |
| 8 | 355264 | WASHER, M10 | 24 | | SPLY |
| 9 | 355476 | HHCS, M10X1.5 X30MM | 12 | | SPLY |



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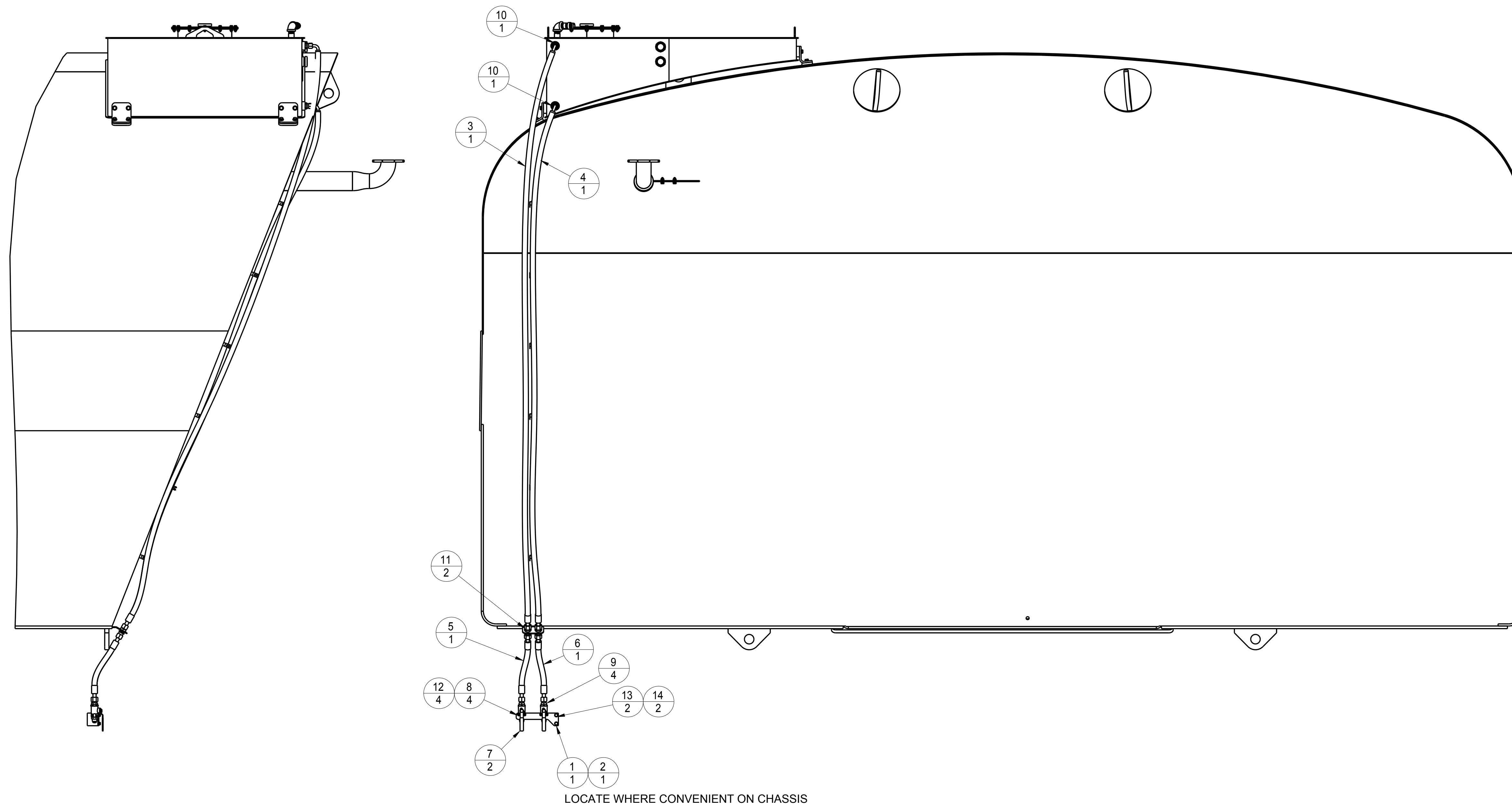
| | | |
|---------------------------------------|------------------|-----------------|
| TOLERANCE: UNLESS OTHERWISE SPECIFIED | | |
| 3 PLACES ± 0.010 | 2 PLACES ± 0.030 | ANGULAR ± 1° |
| DWG. TITLE: FOAM AGENT TANK 120GALLON | | |
| SCALE: NTS | DATE: Feb-23-16 | DWG. NO. 050223 |
| DRAWN BY: RRH | | SHEET 1 OF 1 |


| REVISIONS | | | |
|-----------|----------------------------------|-----------|-----|
| REV | DESCRIPTION | DATE | ECR |
| A | CHANGED CLEANOUT TO ROUND 049595 | Jan-09-17 | DSD |

| PART NO. | PART NAME | QTY | REF NO. | WEIGHT |
|-----------|---------------------------|-----|---------|--------|
| 053445-01 | HOSE ASSEMBLY | 1 | | |
| 305609 | HOSE END -12, 90° JIC -12 | 1 | | STK |
| 356038 | HOSE END -12, STR JIC -12 | 1 | | STK |
| H53445-01 | HOSE, 100R12-12 x 143" | 1 | 354782 | |
| 053445-02 | HOSE ASSEMBLY | 1 | | |
| 305609 | HOSE END -12, 90° JIC -12 | 1 | | STK |
| 356038 | HOSE END -12, STR JIC -12 | 1 | | STK |
| H53445-02 | HOSE, 100R12-12 x 130" | 1 | 354782 | |
| 053445-03 | HOSE ASSEMBLY | 1 | | |
| 356038 | HOSE END -12, STR JIC -12 | 2 | | STK |
| H53445-03 | HOSE, 100R12-12 x 13" | 1 | 354782 | |
| 053445-04 | HOSE ASSEMBLY | 1 | | |
| 356038 | HOSE END -12, STR JIC -12 | 2 | | STK |
| H53445-04 | HOSE, 100R12-12 x 13" | 1 | 354782 | |

NOTE: HOSE LENGTHS MARKED WITH * INDICATE ACTUAL LENGTHS

| ITEM | PART NO. | PART NAME | QTY | REF NO. | IND. WT. |
|------|-----------|--------------------------------|-----|---------|----------|
| 1 | 052184 | PLATE, A36 .25 | 1 | | REF |
| 2 | 052185 | A572 PLATE 1.00" | 1 | | REF |
| 3 | 053445-01 | HOSE ASSEMBLY | 1 | | DETAIL |
| 4 | 053445-02 | HOSE ASSEMBLY | 1 | | DETAIL |
| 5 | 053445-03 | HOSE ASSEMBLY | 1 | | DETAIL |
| 6 | 053445-04 | HOSE ASSEMBLY | 1 | | DETAIL |
| 7 | 307324 | BALL VALVE W/MOUNTING, 3/4" | 2 | | STK |
| 8 | 350000 | WASHER, FLAT #10 | 4 | | SPLY |
| 9 | 352316 | ADAPTER -12JIC/-12NPT STRAIGHT | 4 | | STK |
| 10 | 352623 | ADPT, -12 JIC -12 ORB | 2 | | STK |
| 11 | 352647 | BULKHEAD, -12 JIC | 2 | | STK |
| 12 | 354943 | SCREW, SH 10-24 UNC | 4 | | STK |
| 13 | 355264 | WASHER, M10 | 2 | | SPLY |
| 14 | 355475 | HHCS, M10X1.5 X25MM | 2 | | SPLY |




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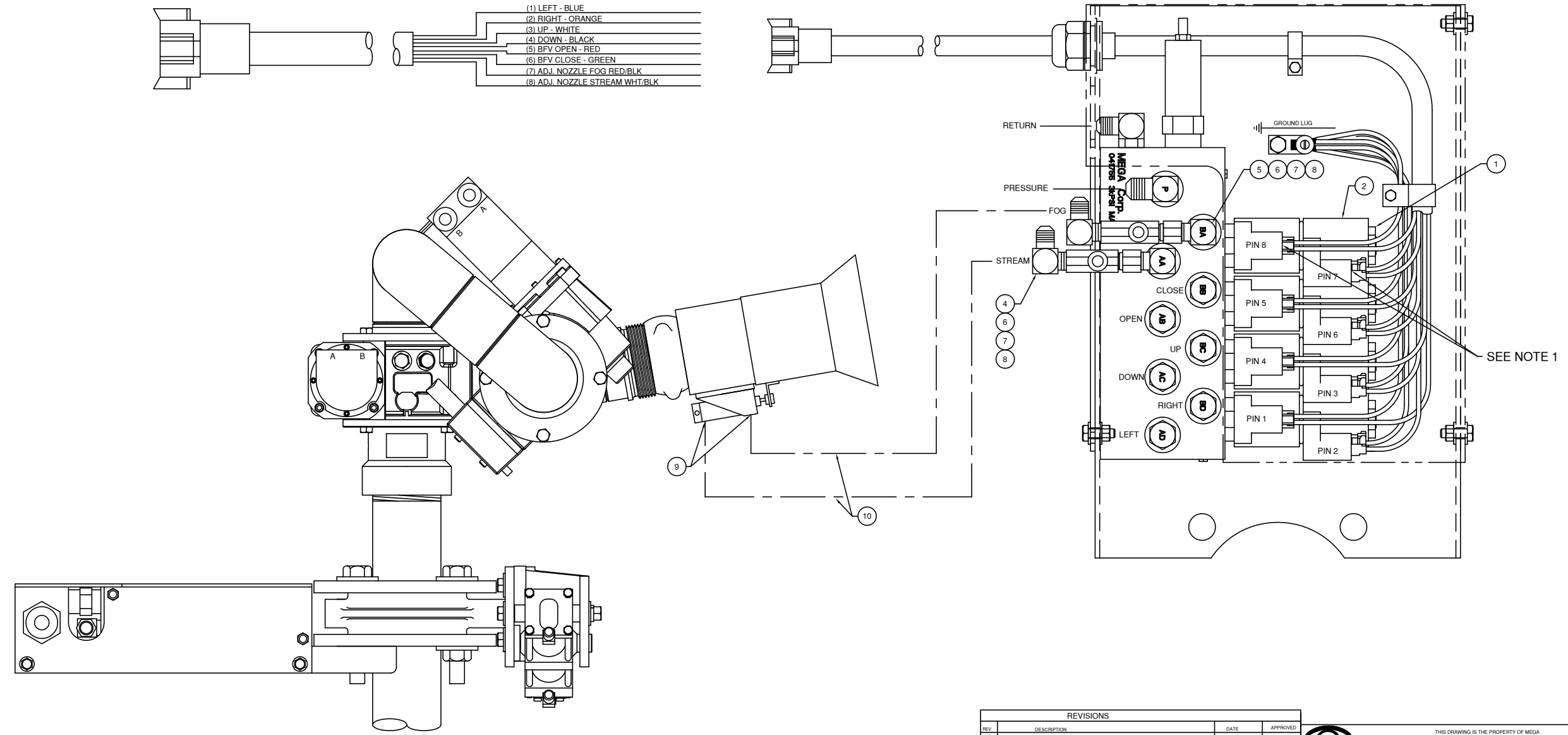
| | | |
|--|------------------|-----------------|
| TOLERANCE: UNLESS OTHERWISE SPECIFIED | | |
| 3 PLACES ± 0.010 | 2 PLACES ± 0.030 | ANGULAR ± 1° |
| DWG. TITLE: CAT 785 MTT30, FOAM, GROUND LEVEL FILL | | |
| SCALE: NTS | DATE: Aug-22-18 | DWG. NO. 053445 |
| DRAWN BY: RRH | SHEET 1 OF 1 | |

NOTES:


1. WITH FOAM AGENT NOZZLE OPTION REMOVE 2 CON CONNECTOR PLUGS (044451) FROM CABLE AND RETURN TO INVENTORY.
2. ADJUST ITEM 7 DURING BENCH TEST TO OBTAIN 4-5 SECONDS FOR NOZZLE TRAVEL

BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|-----|----------|-------------------------------|-----|---------|-----|
| 1 | 304858 | SOLENOID VALVE, 4W-3P | 1 | | STK |
| 2 | 305590 | COIL, 24VDC | 2 | | STK |
| 3 | | | | | |
| 4 | 352481 | JIC/ORB 2062-4-4S 90° | 1 | | STK |
| 5 | 355424 | JIC/ORB 206209-4-4S 90° LG | 1 | | STK |
| 6 | 305902 | JIC SWVLNPT 2018-4-4S 0° | 2 | | STK |
| 7 | 300283 | VALVE SPEED CONTROL 1/4" | 2 | | STK |
| 8 | 352436 | JIC/NPT 2024-4-4S 90° | 2 | | STK |
| 9 | 352296 | JIC/NPT 2021-2-4S 0° | 2 | | STK |
| 10 | 048993 | HOSE ASM | 2 | | STK |
| 11 | | | | | |
| 12 | 044358 | MON. HOSE AND CLAMP LOCATIONS | 1 | | REF |
| 13 | 353475 | PLUG, ORB -4 | -2 | | REM |
| 14 | 304860 | PLUG, CAVITY C-8-4 | -1 | | REM |



| REV. | DESCRIPTION | DATE | APPROVED |
|------|--------------------------------------|------------|----------|
| A | HOSE WAS 66.00 NOW 72.00 | 10-13-10 | DMG |
| B | ADDED ITEM 12 | 10-26-10 | DMG |
| C | ADDED NOTE 1 | 11-16-10 | LAP |
| D | CHGD HOSE DESCRIPTION | 10-31-11 | 11110 |
| E | HOSE ASM | 31-JULY-14 | 13117 |
| F | 354472->306234 354476->306236 ON -01 | 24-MAR-15 | 13025 |
| G | 044294-01->048993 | 25-MAR-15 | TCS |
| H | ADDED REMOVE ITEMS TO BOM | 26-OCT-15 | 14020 |
| J | REMOVED 042590 | 23-AUG-18 | 16049 |


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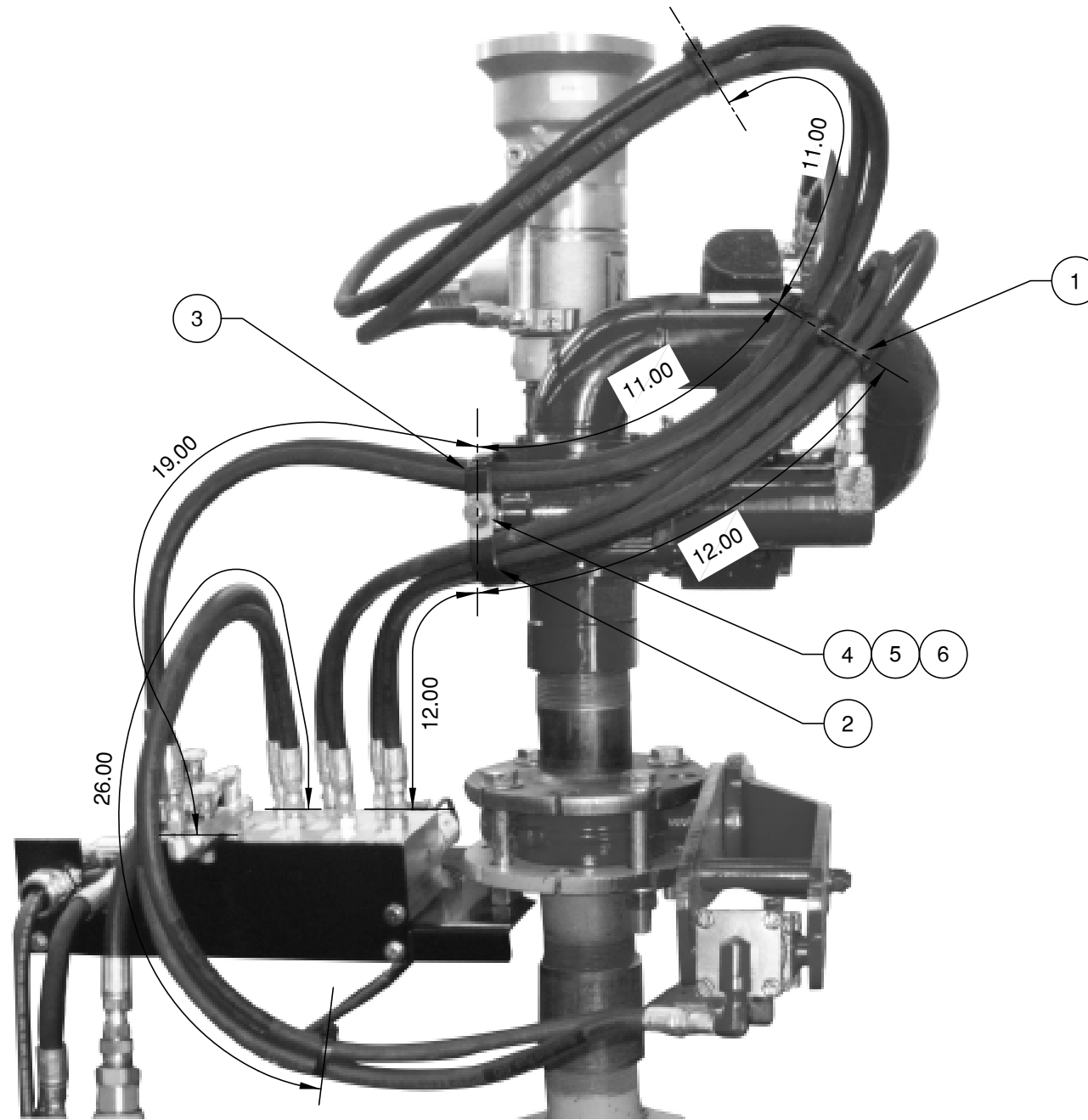
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 3 PLACES ± 0.010 2 PLACES ± 0.03 ANGULAR ± 1°

NAME OF JOB: ADJ. NOZZLE WIRE AND HOSE INSTALL
 DRAWING TITLE: HYDRAULIC MONITOR, ADJ. NOZZLE OPTION
 SCALE: NONE DATE: 9-15-10 DWG. No.: 044294
 DRAWN BY: DMG SHEET 1 OF 1

BILL OF MATERIAL

| Find No. | Part No. | Description | Qty. | Ref. No. | Wt. |
|----------|----------|-----------------------------|------|----------|-----|
| 1 | 305250 | CABLE TIE 15.00 | 4 | | SUP |
| 2 | 301059 | CLAMP, RUBBER COATED 1 1/4" | 1 | | SUP |
| 3 | 300231 | CLAMP, RUBBER COATED 1" | 1 | | SUP |
| 4 | 355521 | BOLT, HEX M12X1.75 X40MM | 1 | | SUP |
| 5 | 355492 | NUT, LOCK M12X1.75 | 1 | | SUP |
| 6 | 355265 | WASHER, M12 | 2 | | SUP |



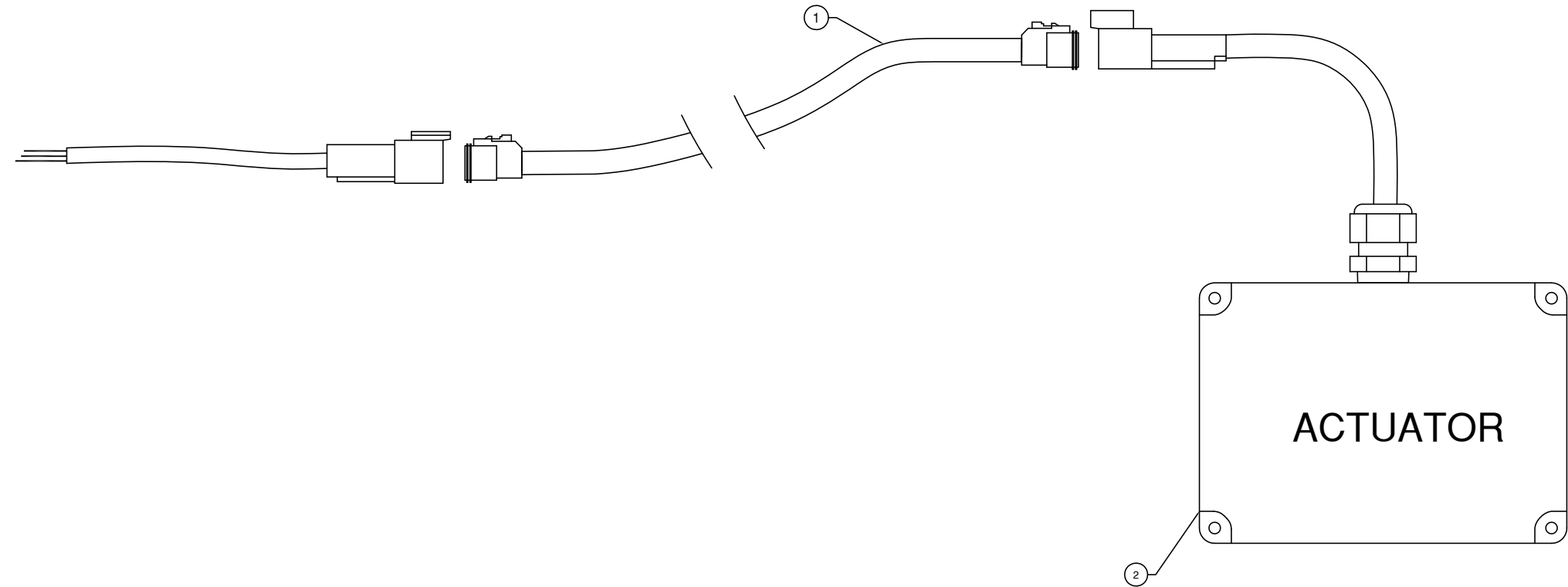
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| REVISIONS | | | |
|-----------|-----------------|------------|----------|
| REV | DESCRIPTION | DATE | APPROVED |
| A | METRIC HARDWARE | 31-JULY-14 | 14009 |

| | | |
|---|-----------------|------------------|
| TOLERANCE: UNLESS OTHERWISE SPECIFIED | | |
| 3 PLACES ± 0.010 | 2 PLACES ± 0.03 | ANGULAR ± 1° |
| NAME OF JOB: ADJUSTABLE NOZZLE | | |
| DRAWING TITLE: MONITOR HOSE AND CLAMP LOCATIONS | | |
| SCALE: 1/2"=1'-0 | DATE: 10-18-10 | DWG. No.: 044358 |
| DRAWN BY: DMG | | SHEET 1 OF 1 |

| | ITEM | PART NO. | PART NAME | QTY | REF NO. | IND.WT. |
|--------|------|----------|-------------------------|-----|---------|---------|
| 043515 | 1 | 043511 | EXT. CABLE ASSY, 3 CON. | 1 | | REF |
| 053562 | 1 | 053561 | EXT. CABLE ASSY, 6 CON. | 1 | | REF |
| 043515 | 2 | 049106 | ACTUATOR | 1 | | STK |
| 053562 | 2 | 053461 | ACTUATOR, DISC 2.0 | 1 | | REF |

FROM TERMINAL/SOLENOID BOX
OR MUTIPLEXER MODULE CABLE



| REVISIONS | | | |
|-----------|---|-----------|-------|
| REV | DESCRIPTION | DATE | ECR |
| A | REPLACED 043944 WITH 043510, ADDED 303668 | May-04-10 | LAP |
| B | REPLACED 303668 WITH 303691, ADDED 355022 | May-18-10 | RRH |
| C | ADDED 304464, 304465, AND 304289 | Apr-28-11 | RRH |
| D | REMOVED 043944, 303691, 355022 | Nov-08-12 | 12089 |
| E | ITEMS 2, 3 & 4 COMBINED IN 049106 | Apr-15-15 | 15026 |
| F | UPDATED VIEW | DEC-02-15 | LAP |

SEE ELEC. SCHEMATIC FOR SWITCH IN CAB CONTROL BOX

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(281) 466-2811

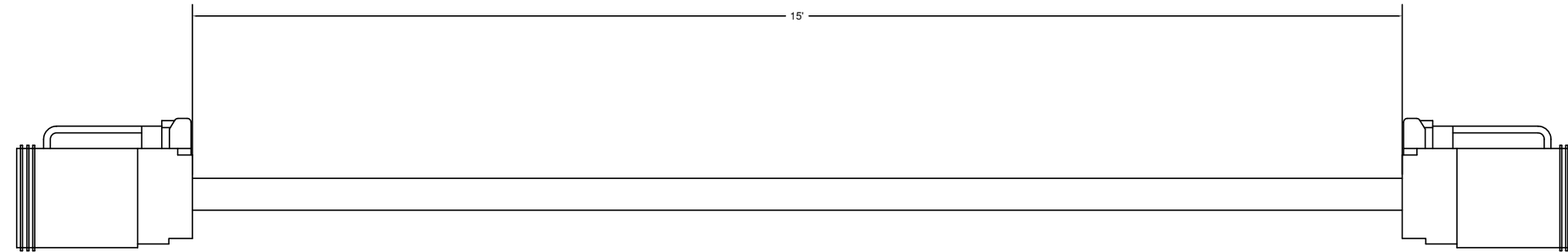
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DRAWING TITLE: WIRING INSTALL, FOAM AGENT
SCALE: NONE DATE: Jan-22-10 DWG. No. 043515
DRAWN BY: RRH SHEET 1 OF 1

BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|-----|----------|-----------------------|-----|---------|------|
| 1 | 305161 | PLUG, 6 PIN (DEUTSCH) | 1 | | STK |
| 2 | 305163 | LOCK, 6 PIN | 2 | | SPLY |
| 3 | 303380 | SOCKET, #16 16-20AWG | 12 | | SPLY |
| 4 | 305226 | HEATSHRINK | 2 | | SPLY |
| 5 | 308562 | CABLE, 6 CON 18GA | 1 | | SPLY |



| CLR-GA | WIRE NAME | POS | TERM/PLUG |
|-----------------|-------------------------|--------|-----------|
| GN-18 | 401 | 1 | 303380 |
| BR-18 | 402 | 2 | 303380 |
| BK-18 | 221 | 3 | 303380 |
| WH-18 | 403 | 4 | 303380 |
| BL-18 | 404 | 5 | 303380 |
| RD-18 | 151 | 6 | 303380 |
| ACCESSORY TABLE | | | |
| QTY | PART NAME | P/N | |
| 1 | PLUG, 6 SOCKET | 305161 | |
| 1 | SECONDARY LOCK 6 PIN | 305163 | |
| 1 | HEAT SHRINK | 305266 | |

| CLR-GA | WIRE NAME | POS | TERM/PLUG |
|-----------------|-------------------------|--------|-----------|
| GN-18 | 401 | 1 | 303380 |
| BR-18 | 402 | 2 | 303380 |
| BK-18 | 221 | 3 | 303380 |
| WH-18 | 403 | 4 | 303380 |
| BL-18 | 404 | 5 | 303380 |
| RD-18 | 151 | 6 | 303380 |
| ACCESSORY TABLE | | | |
| QTY | PART NAME | P/N | |
| 1 | PLUG, 6 SOCKET | 305161 | |
| 1 | SECONDARY LOCK 6 PIN | 305163 | |
| 1 | HEAT SHRINK | 305266 | |

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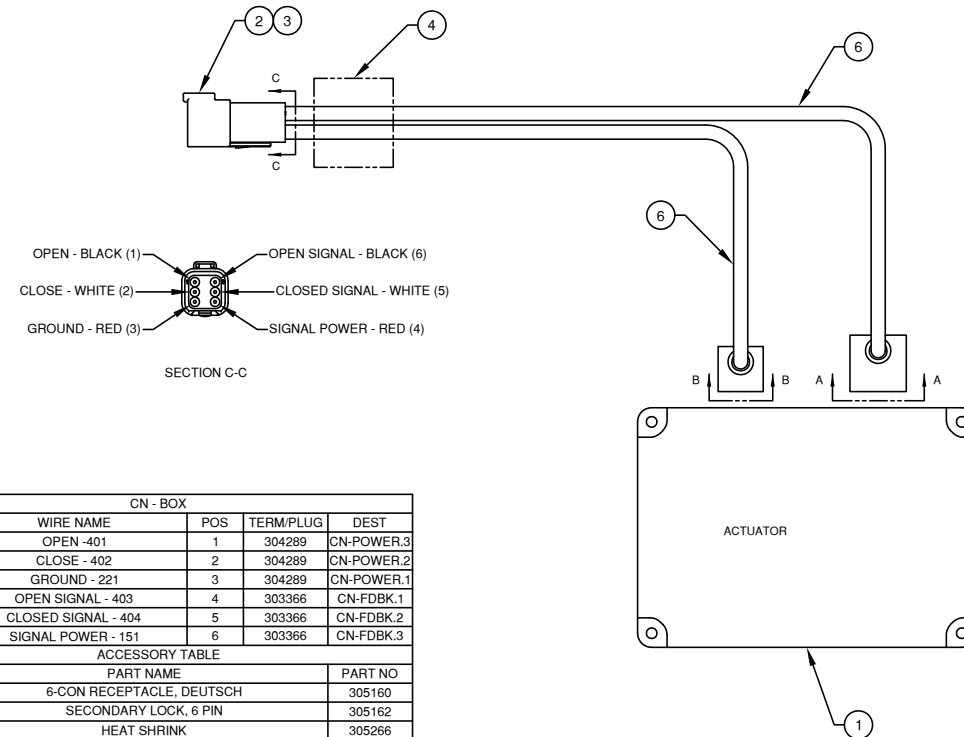
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| REVISIONS | | | | DRAWING TITLE: CABLE EXT. FOAM DISC 2.0 | | |
|-----------|-------------|------|----------|---|----------------|------------------|
| REV | DESCRIPTION | DATE | APPROVED | SCALE: NONE | DATE: 1-OCT-18 | DWG. No.: 053561 |
| | | | | DRAWN BY: TCS | SHEET 1 OF 1 | |

BILL OF MATERIAL

| No. | Part No. | PART NAME | QTY | REF No. | WT. |
|-----|-----------|---------------------------|-----|---------|-----|
| 1 | 308225 | FOAM ACTUATOR | 1 | | STK |
| 2 | 305160 | 6-CON RECEPTACLE, DEUTSCH | 1 | | STK |
| 3 | 305162 | SECONDARY LOCK, 6 PIN | 1 | | SUP |
| 4 | 053461-01 | HEAT SHRINK X 2" | 1 | 305266 | SUP |
| 5 | 053461-04 | CABLE, 3 CON, 14 GA x 18" | 1 | 300485 | SUP |
| 6 | 053461-03 | CABLE, 3 CON, 18 GA x 18" | 1 | 308316 | SUP |
| 7 | 304289 | PIN #16, 14AWG | 3 | | SUP |
| 8 | 303366 | PIN #16, 16-20AWG | 3 | | SUP |

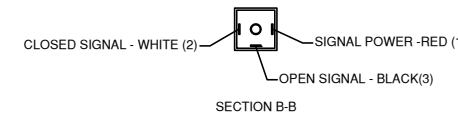
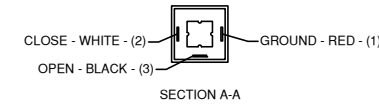


| CN - BOX | | | | |
|----------|---------------------|-----|-----------|------------|
| CLR-GA | WIRE NAME | POS | TERM/PLUG | DEST |
| BK-14 | OPEN -401 | 1 | 304289 | CN-POWER.3 |
| WT-14 | CLOSE - 402 | 2 | 304289 | CN-POWER.2 |
| RD-14 | GROUND - 221 | 3 | 304289 | CN-POWER.1 |
| BK-18 | OPEN SIGNAL - 403 | 4 | 303366 | CN-FDBK.1 |
| WT-18 | CLOSED SIGNAL - 404 | 5 | 303366 | CN-FDBK.2 |
| RD-18 | SIGNAL POWER - 151 | 6 | 303366 | CN-FDBK.3 |

| ACCESSORY TABLE | | |
|-----------------|---------------------------|---------|
| QTY | PART NAME | PART NO |
| 1 | 6-CON RECEPTACLE, DEUTSCH | 305160 |
| 1 | SECONDARY LOCK, 6 PIN | 305162 |
| 1 | HEAT SHRINK | 305266 |

| CN - POWER | | | | |
|------------|--------------|-----|-----------|----------|
| CLR-GA | WIRE NAME | POS | TERM/PLUG | DEST |
| RD-14 | GROUND - 221 | 1 | | CN-BOX.3 |
| WT-14 | CLOSE - 402 | 2 | | CN-BOX.2 |
| BK-14 | OPEN -401 | 3 | | CN-BOX.1 |

| ACCESSORY TABLE | | |
|-----------------|-------------|---------|
| QTY | PART NAME | PART NO |
| 1 | HEAT SHRINK | 305266 |



| CN - FDBK | | | | |
|-----------|---------------------|-----|-----------|----------|
| CLR-GA | WIRE NAME | POS | TERM/PLUG | DEST |
| RD-18 | SIGNAL POWER - 151 | 1 | | CN-BOX.4 |
| WT-18 | CLOSED SIGNAL - 404 | 2 | | CN-BOX.5 |
| BK-18 | OPEN SIGNAL - 403 | 3 | | CN-BOX.6 |

| ACCESSORY TABLE | | |
|-----------------|-------------|---------|
| QTY | PART NAME | PART NO |
| 1 | HEAT SHRINK | 305266 |

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| REVISIONS | | | | NAME OF JOB: FOAM ACTUATOR | |
|-----------|----------------------------------|----------|----------|----------------------------|------------------|
| REV | DESCRIPTION | DATE | APPROVED | SCALE: NTS | DATE: 8-31-18 |
| A | REMOVED -02, CHANGED -06 TO 18GA | 9-24-18 | DSD | DRAWN BY: DSD | DWG. No.: 053461 |
| B | CORRECT 6 CON PINOUTS, ADD -04 | 1-OCT-18 | TCS | SHEET 1 OF 1 | |