

"CUSTOM IS WHAT WE DO"



YACHT REPAIRS & MAINTENANCE

CUSTOM CARPENTRY • CUSTOM STAINLESS & ALUMINUM • DOCKSIDE SERVICE & MAINTENANCE

DAVIT INSTRUCTIONAL MANUAL

OCEAN SERIES

OS-10 • OS-12 • OS-15



DAVIT INSTRUCTIONAL MANUAL

OCEAN SERIES

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NOTE: BEFORE PROCEEDING WITH INSTALLATION, BE SURE THAT DINGHY/OBJECTS BEING LIFTED DO NOT EXCEED MAXIMUM CAPACITY OF DAVIT. EXTRA GEAR, EQUIPMENT OR WATER CAN EASILY ADD WEIGHT AND OVERLOAD DAVIT CAPACITY. TO INSURE THE UTMOST IN SAFETY AND RELIABILITY, DO NOT LIFT WEIGHTS GREATER THAN THE DAVIT'S RATED CAPACITY.

CHECK WITH THE VESSEL MANUFACTURER TO DETERMINE IF VESSEL CAN SAFELY CARRY THE ADDED WEIGHT OF DAVIT AND ALL ACCESSORIES.

THE SYSTEM OPERATES ON 110VAC/20A OR 220VAC/15A.

DO NOT LIFT PEOPLE!!!

DAVIT LOCATION

1. DETERMINE PLACEMENT OF THE DAVIT ACCORDING TO THE FOLLOWING:
 - A. DECK STRENGTH (BASED ON VESSEL MANUFACTURERS RECOMMENDATIONS).
 - B. DINGHY/DAVIT LAYOUT ON DECK (FREE FROM OBSTACLES, E.G., RAILINGS, SEATS, ETC.).
 - C. AVAILABLE SPACE FOR STANDPIPE/LOW PROFILE BASE.
 - D. EASE OF OPERATION AND STOWAGE OF DAVIT.

2. WHEN DETERMINING DAVIT/CRANE PLACEMENT, REMEMBER THAT FACTORS SUCH AS VERTICAL LIFT AND REACH ARE IMPORTANT. THE CENTER OF GRAVITY ON THE DINGHY AND ITS BEAM MUST ALSO BE CONSIDERED. REMEMBER: AS THE DAVIT REACH IS INCREASED, THE VERTICAL LIFT HEIGHT IS DECREASED AND VICE VERSA.

3. THE DINGHY MUST BE ABLE TO BE LAUNCHED AND RETRIEVED WITHOUT HITTING THE SIDE OF THE VESSEL AS WELL AS CLEARING OVER OBSTACLES SUCH AS RAILINGS, SEATS, CHOCKS, HATCHES, ETC.

4. THE DAVIT MUST ALSO BE FREE TO ROTATE AS REQUIRED.



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STANDPIPE INSTALLATION

NOTE: BE SURE THE SELECTED AREA IS FREE FROM OBSTRUCTIONS SUCH AS A/C DUCTS, WIRING, ETC.

REFERENCE TO STANDPIPE DIAGRAM ON PAGE 10.

1. MARK POSITION OF STANDPIPE AT ITS CENTER, INSIDE AND OUTSIDE OF VESSEL. BE SURE THAT PIPE WILL INSTALL VERTICAL/PLUMB AND DOES NOT CONTACT VESSEL STRUCTURE FROM OVERHEAD TO BASE. THIS WILL ALLOW ROOM FOR PIPE TO FLEX AS SYSTEM IS USED.

IMPORTANT: MINIMUM PIPE LENGTH BELOW FLANGE IS 60”.

2. USING 1/4” PILOT BIT, DRILL VERTICALLY AT CENTER MARK OF PIPE FROM INSIDE LOCATION OF PIPE TO OUTSIDE DECK. USING A 4-1/8” HOLE SAW, DRILL HOLE COMPLETELY THROUGH DECK. FILE THE HOLE UNTIL SMOOTH AND CHAMFER THE EDGES TO REDUCE THE POSSIBILITY OF SCRATCHING THE STANDPIPE AS ITS BEING INSERTED INTO THE HOLE.
3. WITH ASSISTANCE, INSERT FULL LENGTH STANDPIPE INTO THE HOLE AND SET ON STANDPIPE BASE, ALLOWING PIPE TO SLIP OVER CONE ON BASE. USE LEVEL OR INCLINOMETER TO PLUMB THE PIPE BY SLIDING BASE AND PIPE TOGETHER. MARK BASE LOCATION AND REMOVE PIPE.
4. STANDPIPE MUST BE CUT TO LENGTH BELOW THE FLANGE. MEASURE VERTICALLY FROM TOP OF UPPER DECK TO TOP OF STANDPIPE BASE FLANGE IN 2 LOCATIONS: OUTBOARD & INBOARD. THIS WILL COMPENSATE FOR VARIATIONS IN DECK ANGLE WHICH WILL CAUSE PIPE FLANGE AND CUT END TO REST ON THEIR SURFACES SIMULTANEOUSLY. THIS WILL PROPERLY DISTRIBUTE THE LOAD CARRIED BY THE DAVIT.
5. TRANSFER MEASUREMENTS TO STANDPIPE, NOTING OUTBOARD AND INBOARD SIDES OF FLANGE. MEASURE ADJACENT TO WELD FROM UNDER SIDES OF FLANGE DOWN THE PIPE AND MARK. CONNECT TWO MEASUREMENTS WITH A LINE AROUND PIPE AND TAPE PIPE JUST ABOVE THIS LINE TO PROTECT PAINT FINISH WHEN CUTTING.



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STANDPIPE INSTALLATION

6. CUT PIPE TO LENGTH USING A SUITABLE SAW WITH A METAL CUTTING BLADE. WE RECOMMEND A CHOPSAW OR MITER SAW. FILE ALL SHARP EDGES AND “HIGHSPOTS” AT CUT.

NOTE: TEST FIT STANDPIPE ON VESSEL BEFORE SECURING. BE SURE PIPE CONTACTS BASE AND UPPER DECK SIMULTANEOUSLY.

REMEMBER: SLIDE INTERIOR TRIM RING UP AROUND PIPE BEFORE SETTING PIPE ON BASE. SECURE TRIM RING AFTER PIPE IS INSTALLED.

7. THROUGH-BOLTING OF THE BASE IS RECOMMENDED USING 1/4” OHMS* OR USING #14 X 1 1/2” OHSTS*. MARK HOLES IN FLANGE ON DECK, REMOVE STANDPIPE AND DRILL MARKED HOLES; 1/4” FOR THROUGH BOLTING (RECOMMENDED WHERE POSSIBLE) OR DRILL HOLES TO 3/16” FOR #14 X 1 1/2” OHSTS. FOR ALUMINUM OR STEEL DECKS, USE 13/64” BIT, 1/4 X 20 TAP AND SECURE USING 1/4 X 20 OHMS.

** BE SURE TO THOROUGHLY CLEAN DECK MOUNTING AREA AND BED UNDER FLANGE WITH 3M 5200 ADHESIVE SEALANT AS WELL AS ALL SCREW HOLES. TIGHTLY SECURE BASE TO DECK USING APPROPRIATE FASTENING METHOD.

OPTIONAL

(IF THE HOSES & CABLES CAN NOT EXIT THROUGH THE BOTTOM OF THE STANDPIPE BASE)

8. MARK AND DRILL A 1/2” HOLE APPROXIMATELY 2” ABOVE STANDPIPE BASE. FILE ALL SHARP EDGES AND “HIGHSPOTS” AT THE HOLE.

* OHMS = OVAL HEAD MACHINE SCREW

* OHSTS = OVAL HEAD SELF TAPPING SCREW



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DAVIT INSTALLATION

1. WITH ASSISTANCE, CAREFULLY PLACE DAVIT ON STANDPIPE; MAKE SURE THE DAVIT BASE SLIPS OVER THE PIPE AND SEATS COMPLETELY DOWN ON TOP OF STANDPIPE. ROCK THE DAVIT SLIGHTLY TO ASSURE PIPE IS SEATED ON BEARING. DAVIT SHOULD ROTATE FREELY ON PIPE.
2. FEED THE HOSES DOWN THE STANDPIPE.
3. CONNECT THE HOSES TO THE HYDRAULIC POWER UNIT.

VENTED PLUG INSTALLATION

1. DISCONNECT POWER SUPPLY AND REMOVE (2) PHILLIPS HEAD SCREWS HOLDING HYDRAULIC POWER UNIT (H.P.U.) COVER IN PLACE. LIFT AND SUPPORT COVER (DO NOT REMOVE).
2. LOCATE THE H.P.U. RESERVOIR. REMOVE THE SOLID SHIPPING PLUG LOCATED AT THE TOP OF THE RESERVOIR USING A 1/2" WRENCH. REPLACE THIS PLUG WITH ENCLOSED PLASTIC VENTED PLUG (HAND-TIGHTEN ONLY). RE-SECURE H.P.U. COVER.

NOTE: UPON RECEIVING THE DAVIT, CHECK RESERVOIR FOR CORRECT FLUID LEVEL (1" TO 1-1/2" FROM THE TOP OF THE RESERVOIR) BEFORE PROCEEDING TO OPERATE THE DAVIT. THE FLUID LEVEL SHOULD BE CHECKED WITH NONE OF THE DAVIT'S FUNCTIONS DEPLOYED (I.E. CABLE RETRACTED AND BOOM IN STOWED POSITION).



DAVIT INSTRUCTIONAL MANUAL

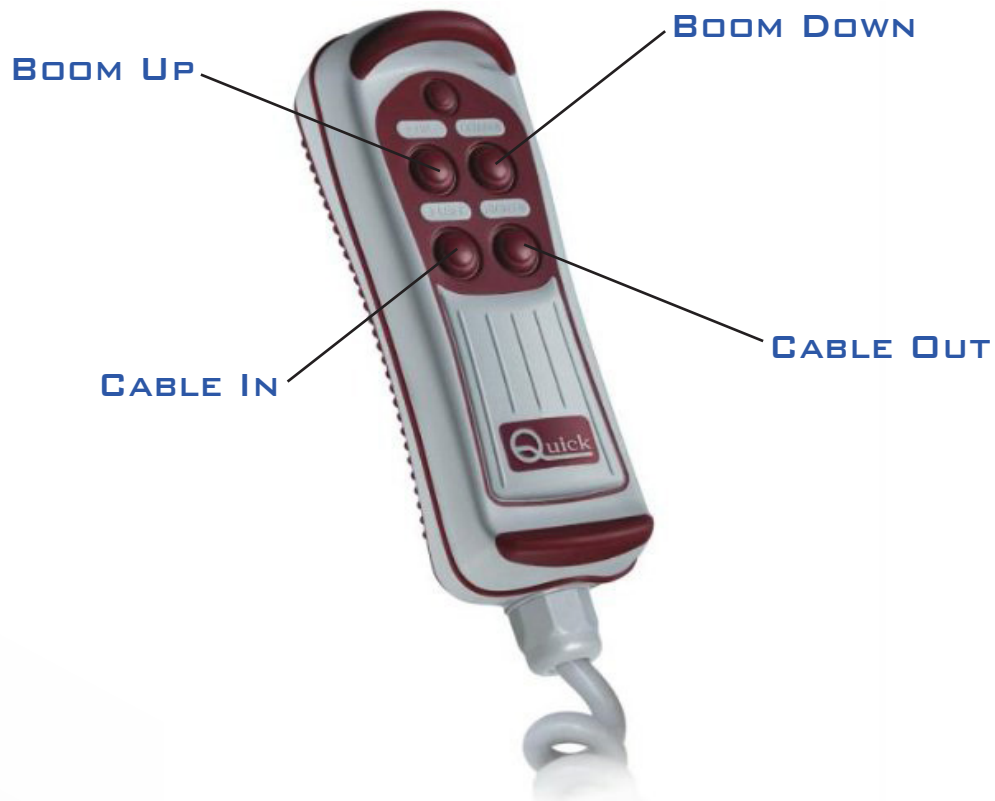
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DAVIT OPERATION

CAUTION: BE SURE THE AREA AROUND AND UNDER THE LIFTING AREA IS CLEAR BEFORE RAISING OR LOWERING ANY OBJECTS WITH THE DAVIT. DO NOT LIFT LOADS OVER AREAS WHERE PEOPLE ARE LOCATED.

DO NOT LIFT PEOPLE!!!

1. CONNECT THE HAND CONTROL PENDANT TO THE DAVIT BASE.
2. PUSH THE DESIRED FUNCTION BUTTON ON THE PENDANT TO OPERATE THE DAVIT.





DAVIT INSTRUCTIONAL MANUAL

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DAVIT MAINTENANCE

WARNING: DO NOT OPERATE DAVIT WITH A DAMAGED CABLE!!!

1. INSPECT CABLE REGULARLY FOR BREAKS OR FRAYED SPOTS. CONTACT OUR SERVICE DEPARTMENT REGARDING CABLE REPLACEMENT OR SERVICE FOR YOUR DAVIT/CRANE.
2. REGULAR WASH DOWNS, WITH MILD SOAP AND WATER, WILL PREVENT SALT BUILD UP AND PRESERVE THE EXTERNAL FINISH OF THE DAVIT/CRANE. BE SURE DAVIT IS UNPLUGGED BEFORE WASH DOWN. SPRAY FRESH WATER INTO THE PULLEY END OF THE DAVIT. ALSO WASH DOWN THE LOWER PART OF THE BOOM AND THE BASE WITH THE BOOM RAISED TO ITS MAXIMUM HEIGHT.
3. OCCASIONALLY, SPRAY THE PULLEYS AT THE END OF THE BOOM WITH A LUBRICANT, SUCH AS T-9 RUST AND CORROSION PROTECTION OR ITS EQUIVALENT. SPRAY ALL STAINLESS STEEL PARTS AS WELL. INSPECT DAVIT AND ALL ITS COMPONENTS REGULARLY FOR SIGNS OF DAMAGE OR INOPERABLE PARTS. REPAIR AND/OR REPLACE ALL DAMAGED PARTS AS NECESSARY. TOUCH-UP PAINT NICKS, AS NECESSARY, TO PRESERVE THE EXTERNAL FINISH OF THE DAVIT.

T-9 RUST AND CORROSION PROTECTION





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WARRANTY

CONDITIONS OF THE YRM LLC
DAVIT WARRANTY ARE AS FOLLOWS:

1. ONE YEAR WARRANTY ON PAINT
2. FIVE YEAR WARRANTY ON STRUCTURE
3. SIX MONTH LIMITED WARRANTY ON ALL ELECTRICAL PARTS
4. SIX MONTH LIMITED WARRANTY ON ALL HYDRAULIC PARTS
5. LABOR - COST OF LABOR FOR REPAIR, REPLACEMENT, REMOVAL
AND/OR REINSTALLATION

WARRANTY REPAIRS MUST BE APPROVED IN WRITING BY YRM LLC PRIOR TO SERVICES RENDERED. TRAVEL TO CUSTOMER MUST BE WITHIN A RADIUS OF 60 MILES FROM YRM LLC'S FORT LAUDERDALE, FLORIDA LOCATION. FURTHER DETAILS AVAILABLE UPON REQUEST.

NOTE: YRM LLC WILL NOT COVER ANY ITEMS THAT ARE DAMAGED DUE TO NEGLIGENCE, ABUSE AND/OR IMPROPER MAINTENANCE.

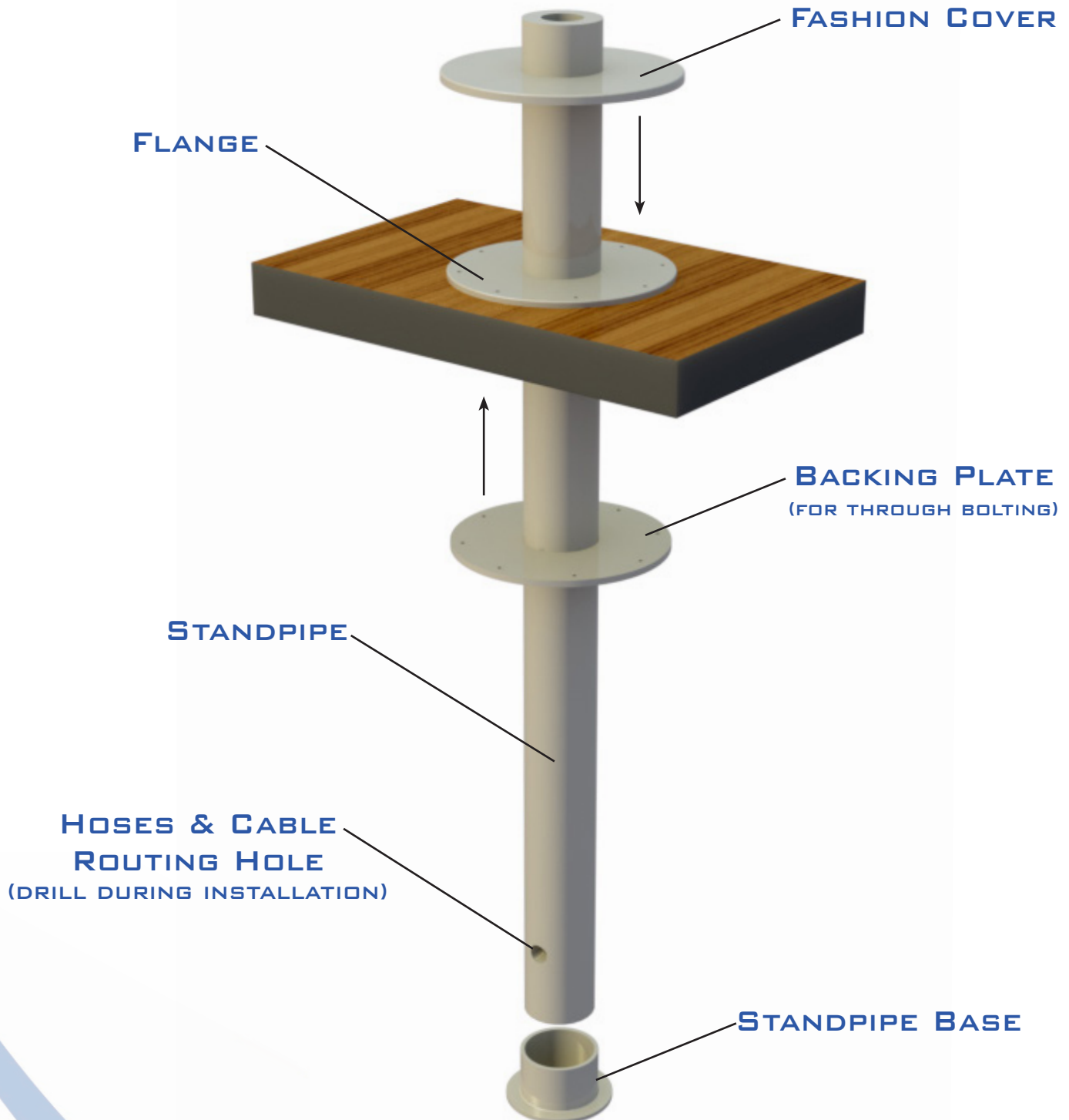
ALL FREIGHT AND TRAVEL COSTS OUTSIDE OF YRM LLC SERVICE AREA WILL NOT BE COVERED BY YRM LLC. ALL EXPENSES TO THE CUSTOMER MUST BE PAID IN FULL PRIOR TO RELEASING ANY GOODS.



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STANDPIPE

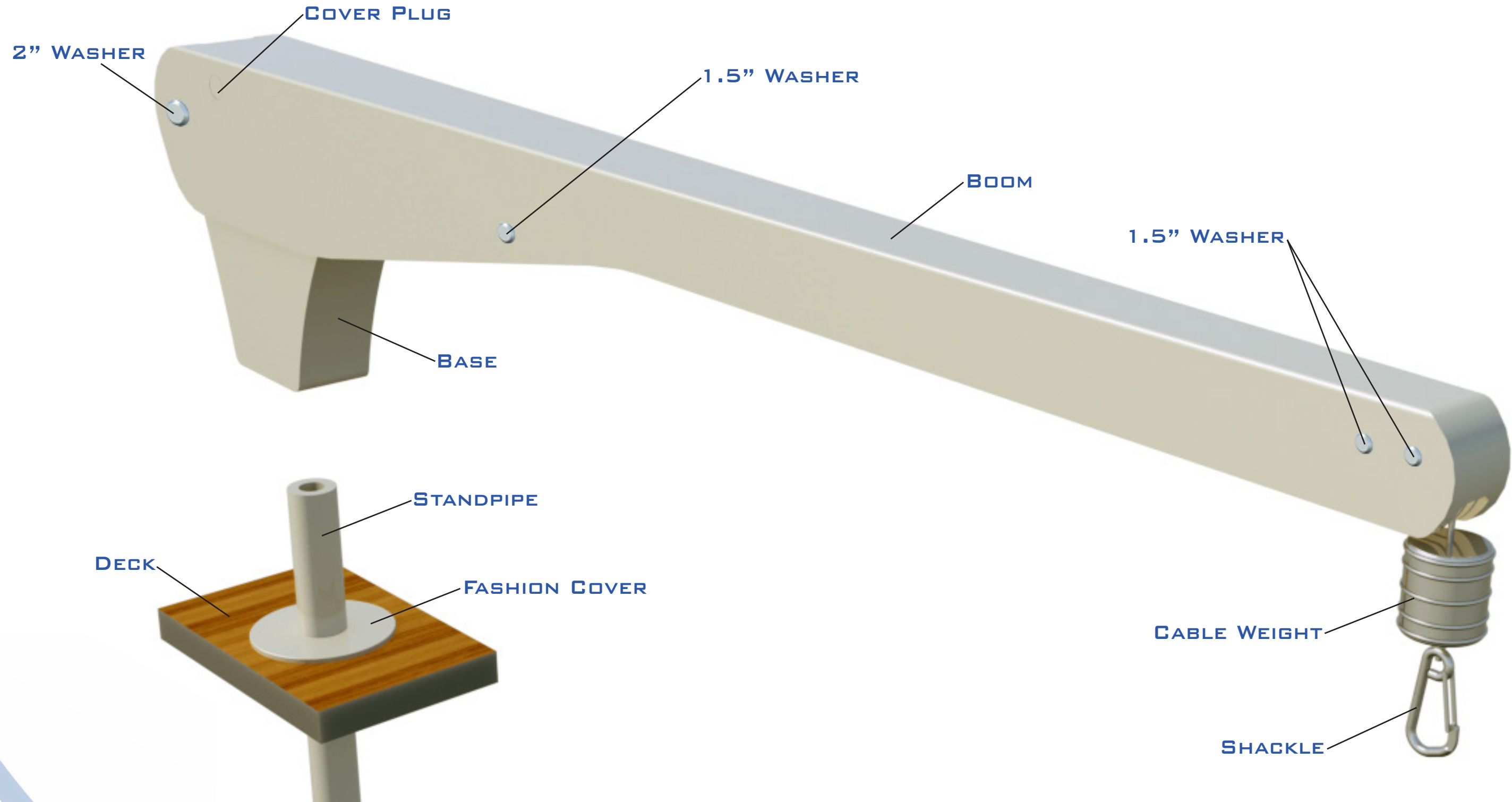




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DAVIT TO STANDPIPE

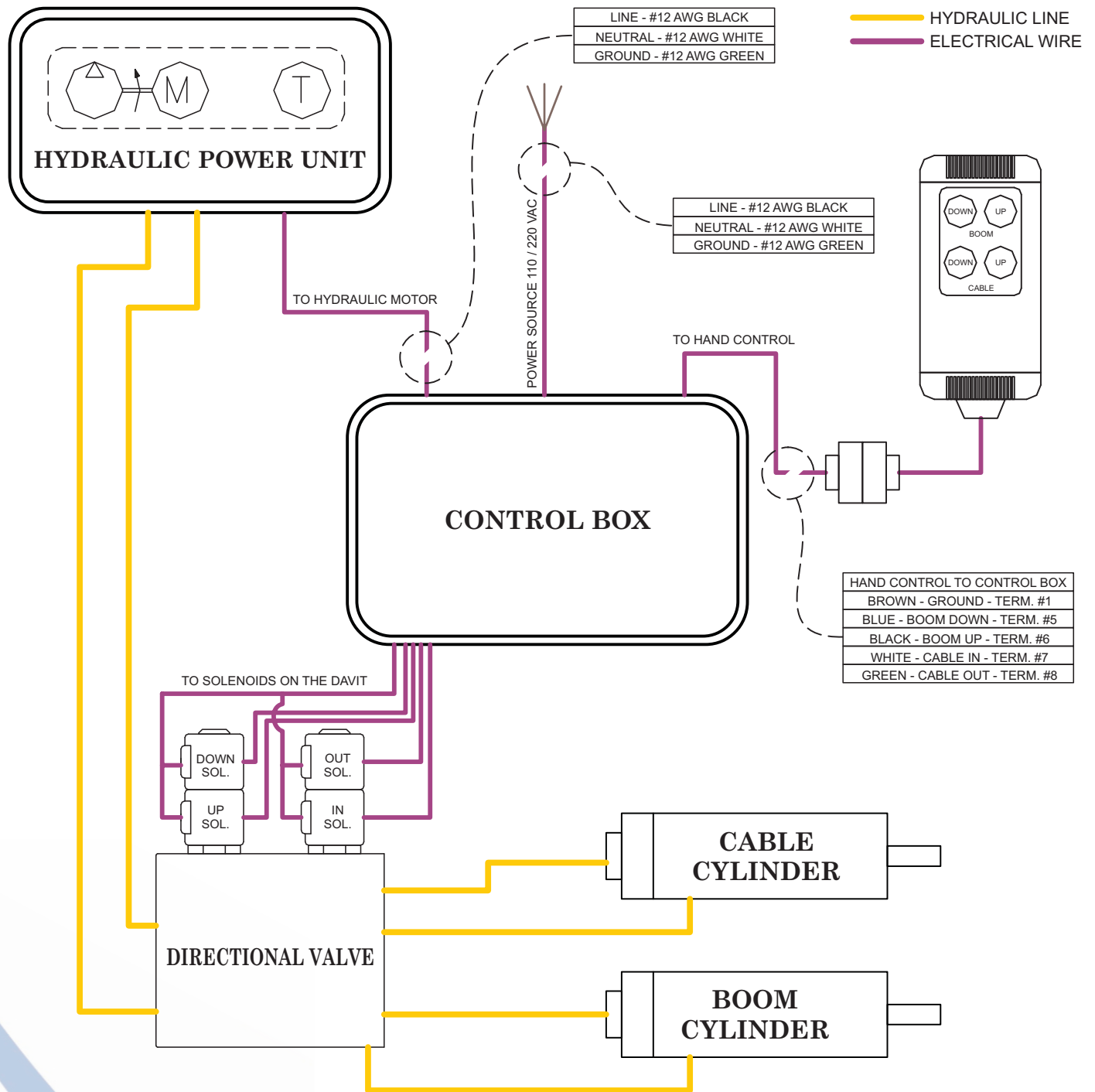




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OVERALL LOGIC SCHEMATIC



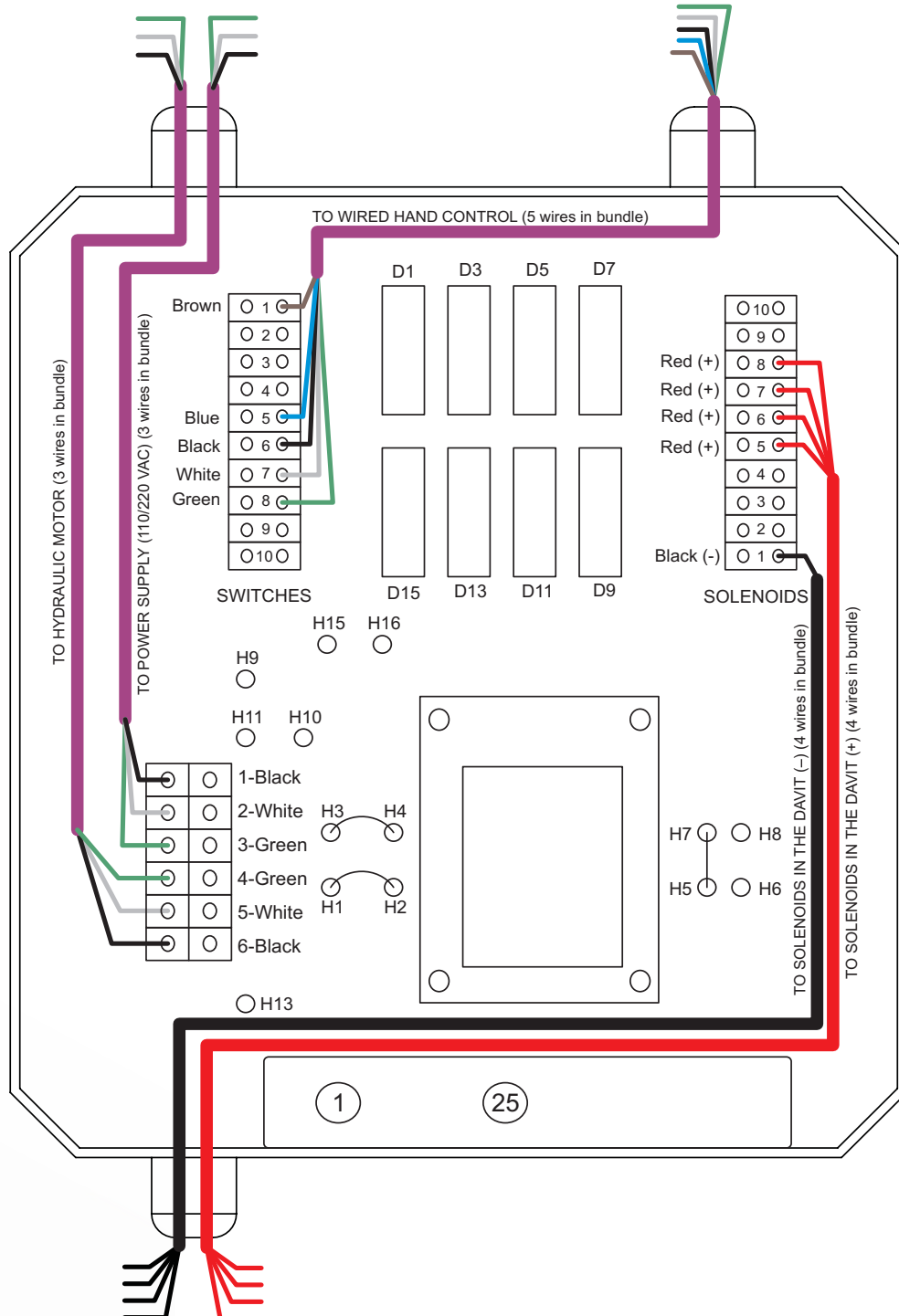


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CONTROL BOX SCHEMATIC

STANDARD 110V CONFIGURATION





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110/220 VOLTAGE CONVERSION

HOW TO CONVERT 110V TO 220V

STEP 1 REMOVE 2 JUMPER WIRES: ONE FROM H1 TO H2 AND ONE FROM H3 TO H4 (WITH A SOLDERING IRON). SHOWN IN FIG. 1

STEP 2 ADD ONE JUMPER WIRE FROM H2 TO H4. SHOWN IN FIG. 2

NOTE: DO NOT TOUCH H7 - H5 JUMPER

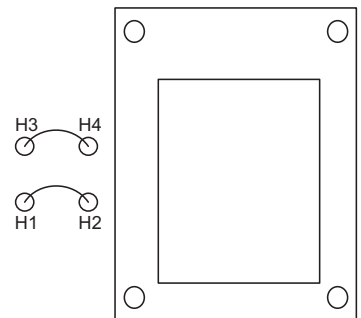
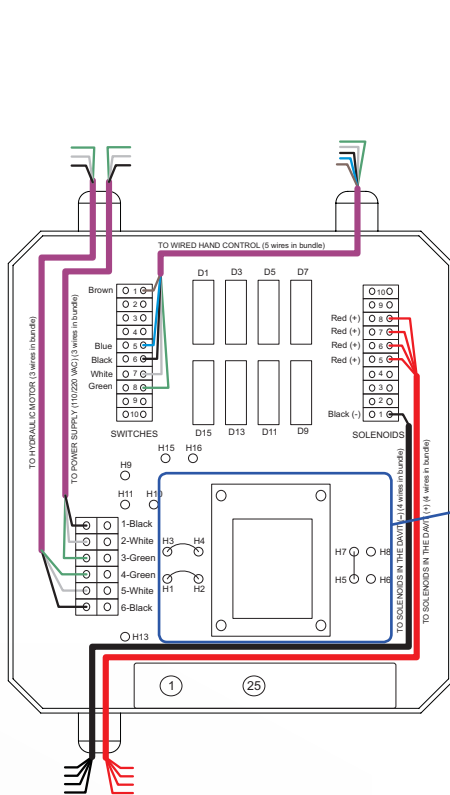


FIG. 1
110V CONFIG.

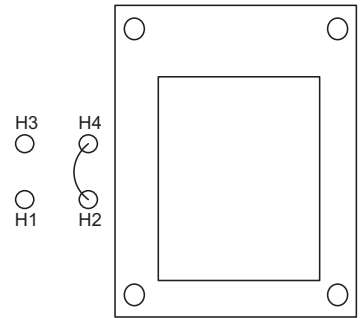
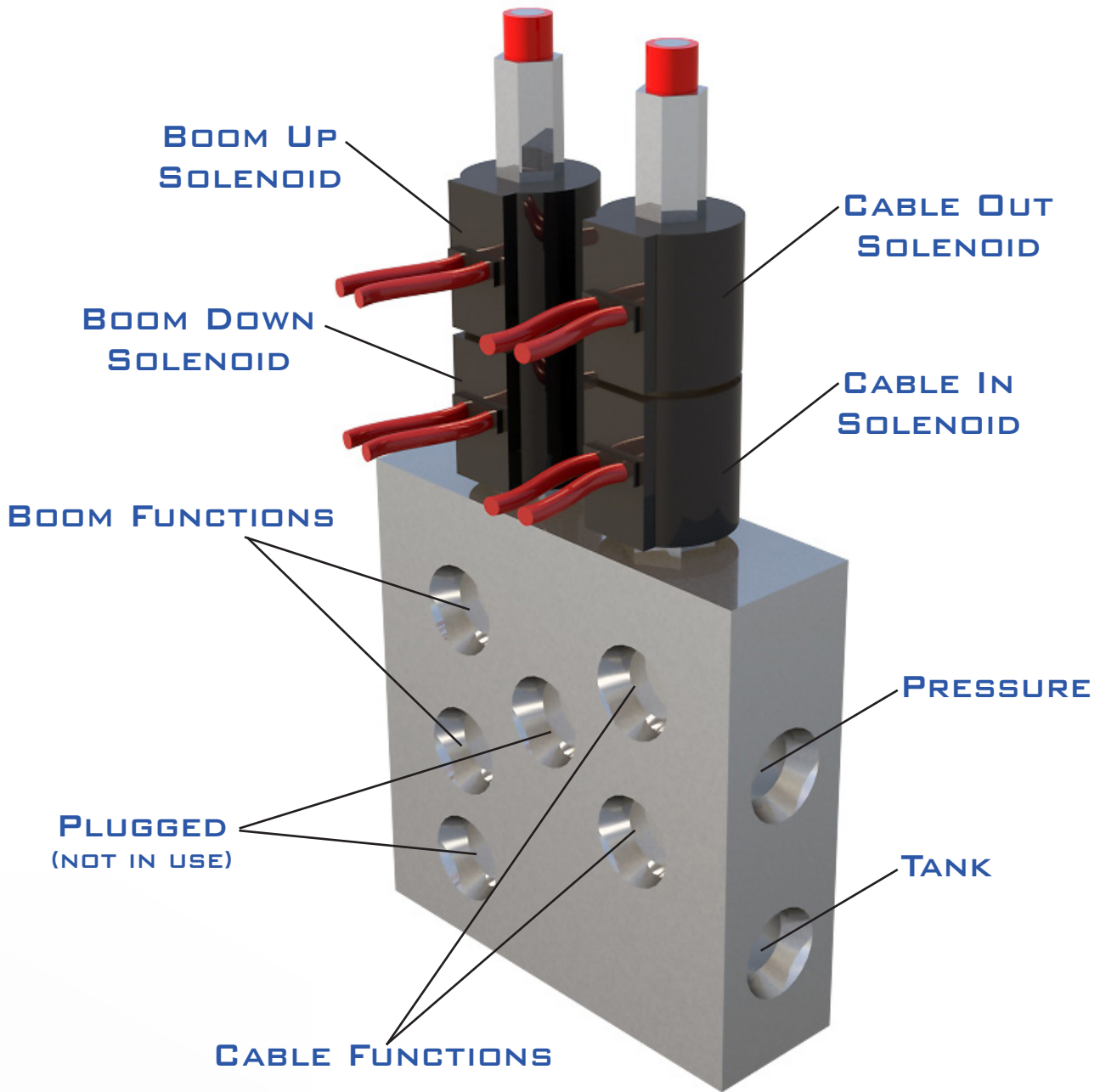


FIG. 2
220V CONFIG.

NOTE: PLEASE CONSULT A CERTIFIED ELECTRICIAN TO MAKE THESE CHANGES

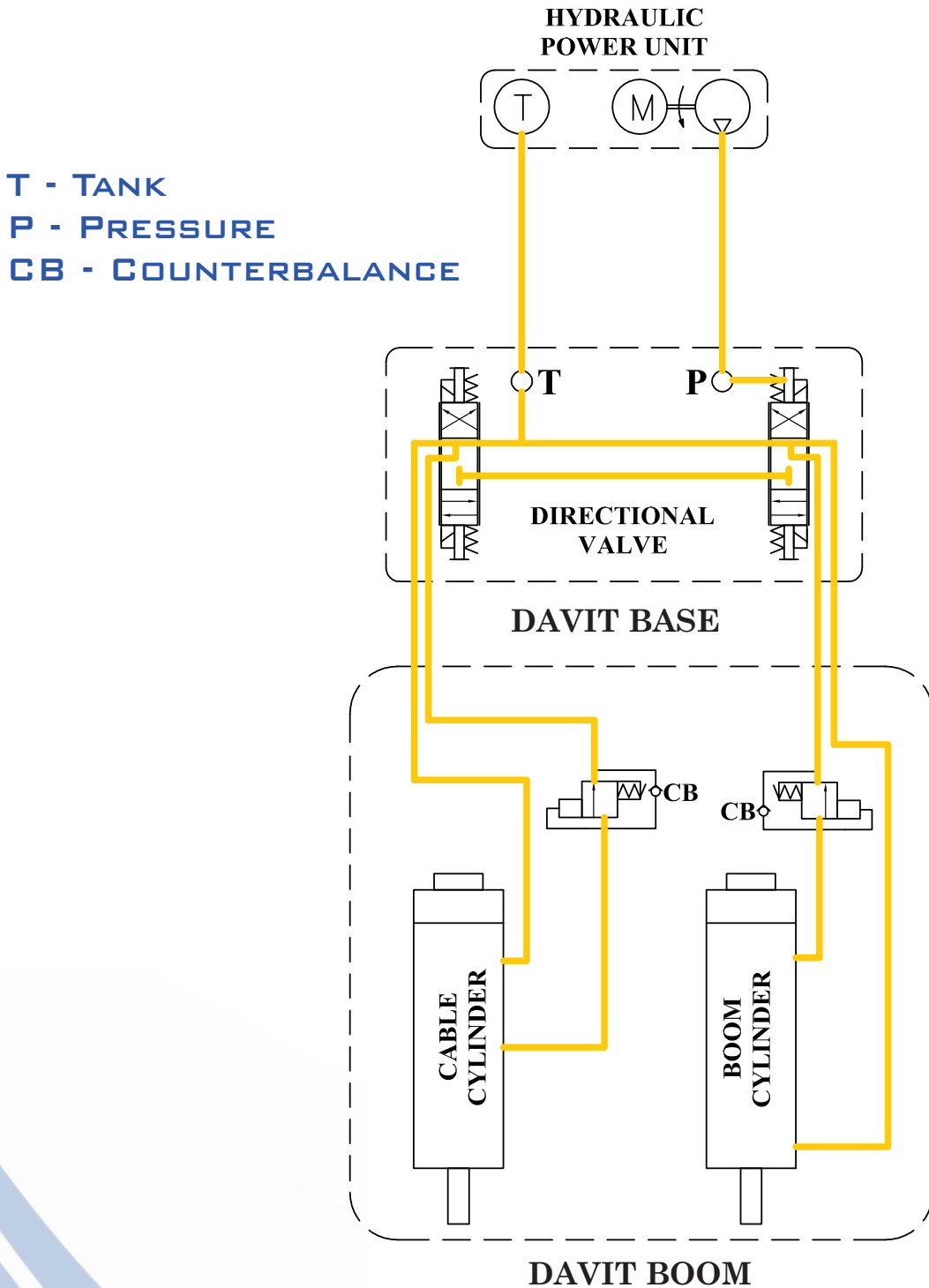


DIRECTIONAL VALVE BLOCK





HYDRAULIC SCHEMATIC





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SERVICE LOGS

DATE OF INSPECTION:			
BOOM INSPECTION	OK	POOR	BAD
-CABLE CYL.			
-CABLE CYL. HOSES			
-CABLE CYL. C'BAL.			
-PULLEYS			
-CABLE WEIGHT			
-SHACKLE			
BASE INSPECTION	OK	POOR	BAD
-BOOM CYL.			
-BOOM CYL. HOSES			
-BOOM CYL. C'BAL.			
-DIR. VALVE BLOCK			
-HYDRAULIC HOSES			
H.P.U. INSPECTION	OK	POOR	BAD
-HYDRAULIC HOSES			
-H.P.U. PRESSURE			
-HYDRAULIC FLUID			
-SOLENOIDS			
PAINT INSPECTION	OK	POOR	BAD
-BOOM PAINT			
-BASE PAINT			
-STANDPIPE PAINT			
YRM CERTIFIED SERVICE TECHNICIAN			

DATE OF INSPECTION:			
BOOM INSPECTION	OK	POOR	BAD
-CABLE CYL.			
-CABLE CYL. HOSES			
-CABLE CYL. C'BAL.			
-PULLEYS			
-CABLE WEIGHT			
-SHACKLE			
BASE INSPECTION	OK	POOR	BAD
-BOOM CYL.			
-BOOM CYL. HOSES			
-BOOM CYL. C'BAL.			
-DIR. VALVE BLOCK			
-HYDRAULIC HOSES			
H.P.U. INSPECTION	OK	POOR	BAD
-HYDRAULIC HOSES			
-H.P.U. PRESSURE			
-HYDRAULIC FLUID			
-SOLENOIDS			
PAINT INSPECTION	OK	POOR	BAD
-BOOM PAINT			
-BASE PAINT			
-STANDPIPE PAINT			
YRM CERTIFIED SERVICE TECHNICIAN			

OPTIONAL MAINTENANCE KIT

- T-9 RUST & CORROSION PROTECTION
- HYDRAULIC OIL
- PLUGS
- WRENCH

OPTIONAL EMERGENCY KIT

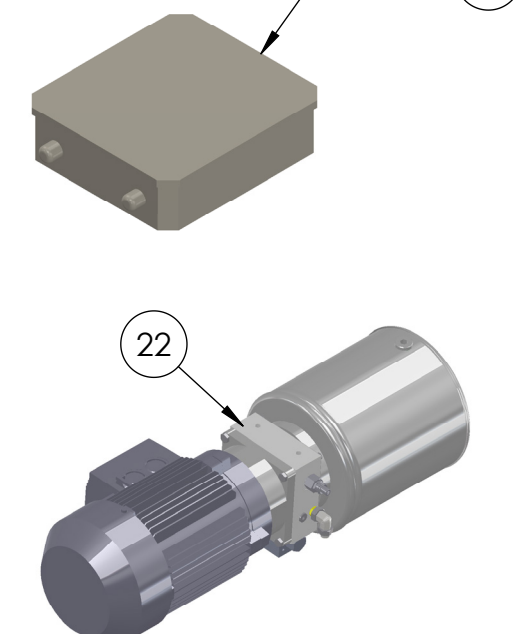
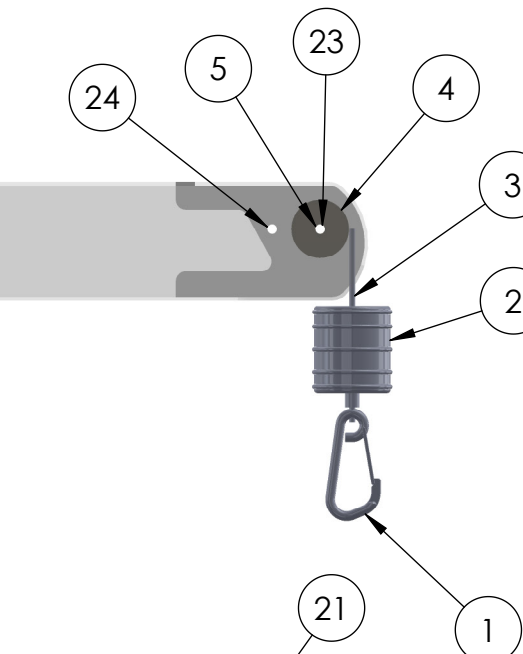
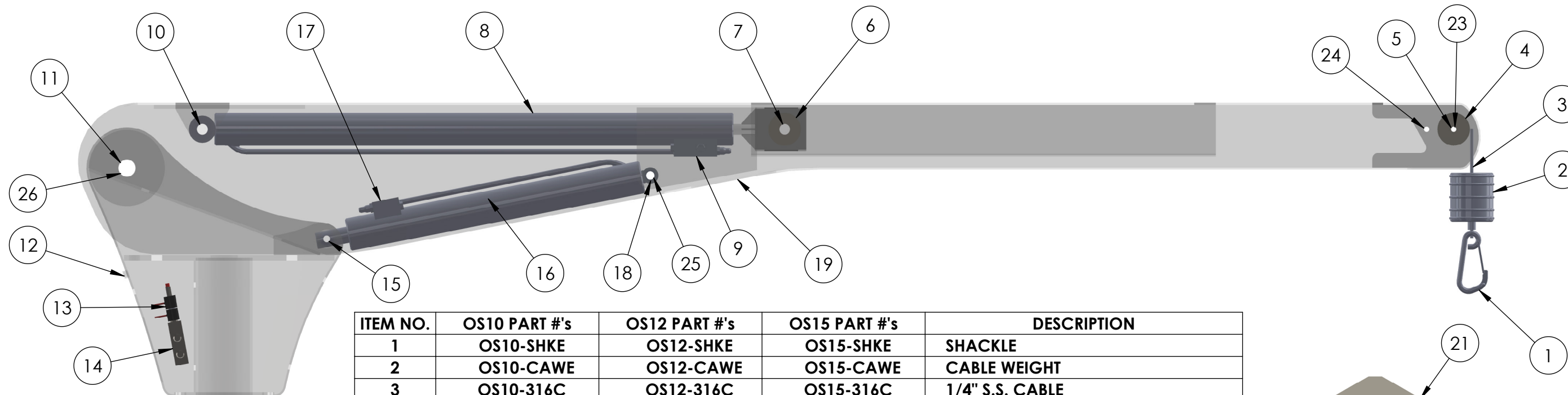
- HYDRAULIC HOSES (2 LENGTHS)
- SOLENOIDS (2)
- DIRECTIONAL VALVE BLOCK
- T-9 RUST & CORROSION PROTECTION
- HYDRAULIC OIL (2 X QT.)
- PLUGS
- WRENCH



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PARTS LIST



ITEM NO.	OS10 PART #'s	OS12 PART #'s	OS15 PART #'s	DESCRIPTION
1	OS10-SHKE	OS12-SHKE	OS15-SHKE	SHACKLE
2	OS10-CAWE	OS12-CAWE	OS15-CAWE	CABLE WEIGHT
3	OS10-316C	OS12-316C	OS15-316C	1/4" S.S. CABLE
4	OS10-3DPY	OS12-3DPY	OS15-3DPY	3.5" DIA. PULLEY
5	OS10-000P	OS12-000P	OS15-000P	PULLEY PIN
6	OS10-CCPY	OS12-CCPY	OS15-CCPY	CABLE CYL. PULLEY
7	OS10-000P	OS12-000P	OS15-000P	PULLEY PIN
8	OS10-CACY	OS12-CACY	OS15-CACY	CABLE CYLINDER
9	OS10-CACC	OS12-CACC	OS15-CACC	CABLE CYL. COUNTERBALANCE
10	OS10-CACP	OS12-CACP	OS15-CACP	CABLE CYL. PIN
11	OS10-PIVP	OS12-PIVP	OS15-PIVP	PIVOT PIN
12	OS10-HCSK	OS12-HCSK	OS15-HCSK	HAND CONTROL SOCKET
13	OS10-SOND	OS12-SOND	OS15-SOND	SOLENOIDS
14	OS10-DVAB	OS12-DVAB	OS15-DVAB	DIRECTIONAL VALVE BLOCK
15	OS10-LBCP	OS12-LBCP	OS15-LBCP	LOWER BOOM CYL. PIN
16	OS10-BOCY	OS12-BOCY	OS15-BOCY	BOOM CYLINDER
17	OS10-BOCC	OS12-BOCC	OS15-BOCC	BOOM CYL. COUNTERBALANCE
18	OS10-UBCP	OS12-UBCP	OS15-UBCP	UPPER BOOM CYL. PIN
19	OS10-INPL	OS12-INPL	OS15-INPL	INSPECTION PLATE
20	OS10-HACT	OS12-HACT	OS15-HACT	HAND CONTROL
21	OS10-CBOX	OS12-CBOX	OS15-CBOX	CONTROL BOX
22	OS10-HYPU	OS12-HYPU	OS15-HYPU	HYDRAULIC POWER UNIT
23	OS10-PUPW	OS12-PUPW	OS15-PUPW	PULLEY PIN WASHER (1.5")
24	OS10-CEPW	OS12-CEPW	OS15-CEPW	CABLE END PIN WASHER (1.5")
25	OS10-BCPW	OS12-BCPW	OS15-BCPW	BOOM CYL. PIN WASHER (1.5")
26	OS10-PIPW	OS12-PIPW	OS15-PIPW	PIVOT PIN WASHER (2")



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CUSTOMER INFORMATION

DATE: _____

NAME: _____

ADDRESS: _____

TELEPHONE: _____

EMAIL: _____

DAVIT INFORMATION

MODEL: _____

CAPACITY: _____

COLOR: _____

CABLE SIZE: _____

VOLTAGE: _____

SERIAL NUMBER: _____

NON-STANDARD CONFIGURATION

NOTES

NOTES