

THE FOLLOWING IS A NON-COMPREHENSIVE LIST OF ITEMS SUGGESTED FOR INSTALLING THE TPA 15. IT IS THE INSTALLER'S RESPONSIBILITY TO UNDERSTAND THE INSTALLATION PROCESS AND THE TOOLS REQUIRED PRIOR TO PERFORMING THE WORK.

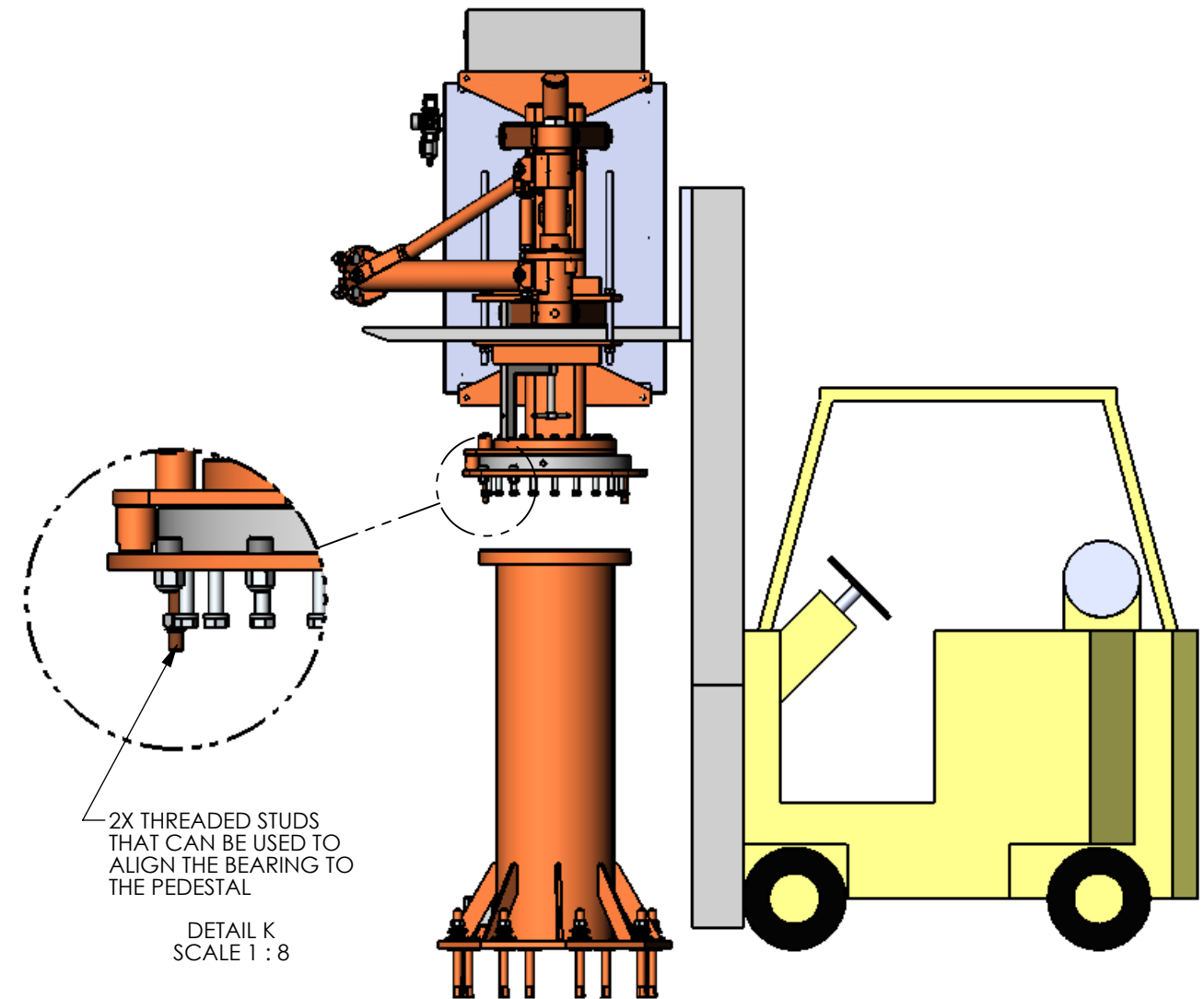
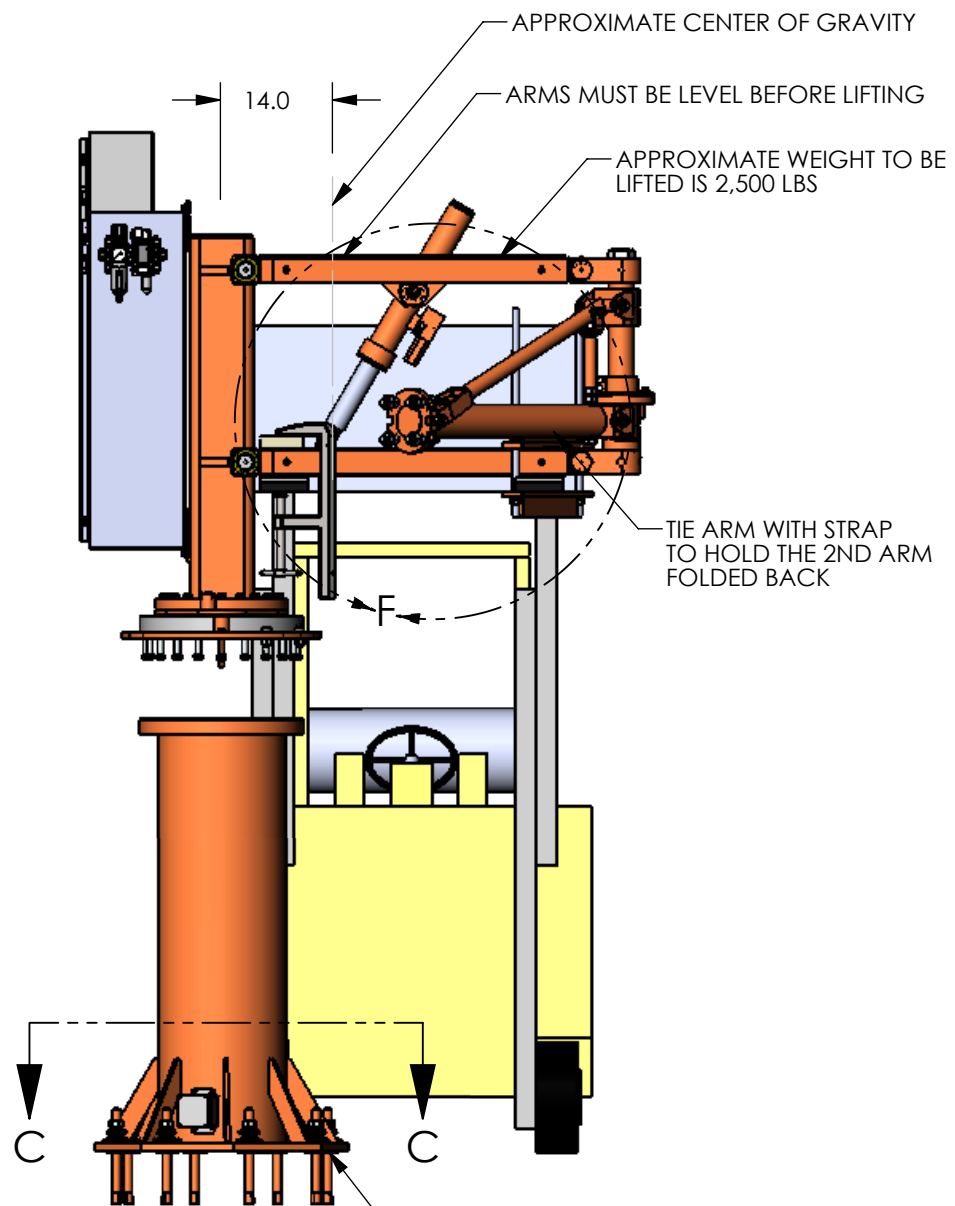
3" HEX WRENCH	MACHINIST LEVEL & BUBBLE LEVEL	CHALK TO MARK PEDESTAL LOCATION
2 1/4" HEX WRENCH	HAMMER DRILL	DRILL
1 1/2" HEX WRENCH	1" CONCRETE BIT	BANDING SHEAR FOR PALLET DISASSEMBLY
15/16" HEX WRENCH	VACUUM TO CLEAR ANCHOR BOLT HOLES	FISH TAPE FOR ROUTING HOSES
3/4" HEX WRENCH	EXTENSION CORDS	5/8" X 3" L - EYE BOLTS FOR LIFTING PEDESTAL
5/8" ALLEN HEX	LADDERS	SLINGS
9/16" ALLEN HEX	MAN LIFT	PERSONAL PROTECTIVE EQUIPMENT
3/8" ALLEN HEX	PLUMBING TOOLS	ELECTRICAL TOOLS / HOLE PUNCH
5/16" ALLEN HEX	WILTON 6516B C-CLAMPS	RECOMMENDED 4,000 LB FORKLIFT OR CRANE TO LIFT THE TPA 15 INTO POSITION (NO TOOL)
TORQUE WRENCH	LAYOUT PRINT & TAPE MEASURE	

ALL SPECIFIED NOTES AND REQUIREMENTS ARE TYPICAL REFER TO EACH PROJECT PROFILE DRAWING FOR AND CUSTOM FEATURES.

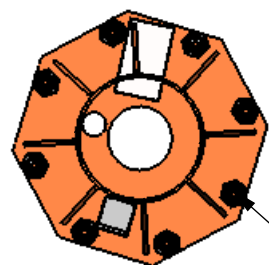
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TPA 15 - INSTALLATION INSTRUCTIONS			
SCALE: 1:24	DATE: 12/Sep/2014	DRAWN BY: WAK	
CLASS CODE: 500	DWG NO: TPA 15 INSTALL	SHT: 1 of 4	REV:



- NO GROUTING IS NEEDED TO INSTALL THIS PEDESTAL:
1. BE SURE TO PLACE THE WASHERS UNDER THE JACKS - ON THE CONCRETE.
 2. SEAT THE ANCHOR BOLTS BEFORE LEVELING.
 3. LEVEL THE PEDESTAL BEFORE INSTALLING THE MANIPULATOR.
 4. PLACE A LEVEL ON THE BEARING MOUNTING SURFACE TO LEVEL TO PEDESTAL.



SECTION C-C

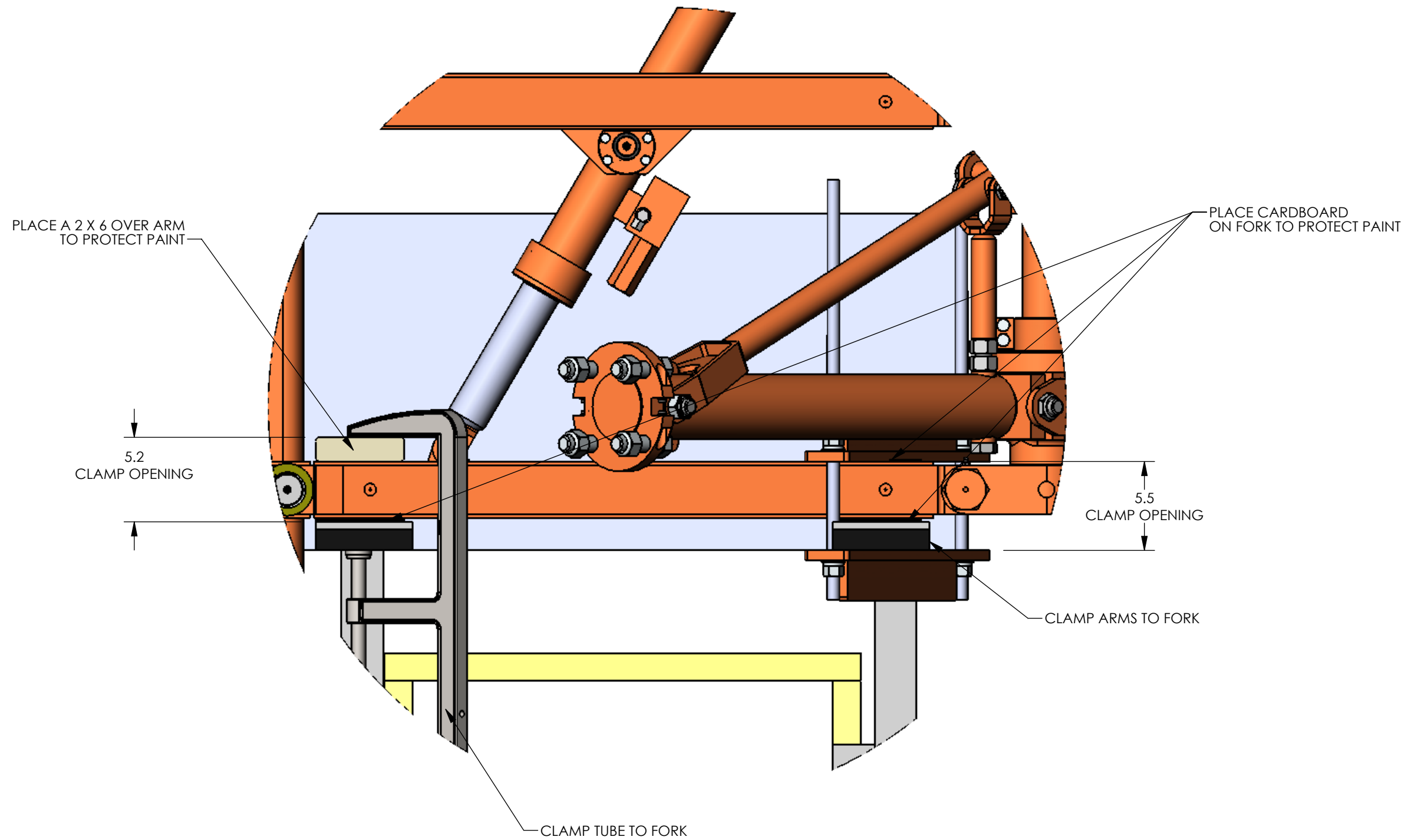
SEAT BOLTS AT 250-350 FT-LBS [340-476 N-M]
 LOOSEN AND THEN TORQUE TO 250 FT-LBS [340 N-M]
 RECHECK AFTER ONE WEEK OF SERVICE
 CHECK EVERY PERIODIC EVALUATION

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TPA 15 - INSTALLATION INSTRUCTIONS

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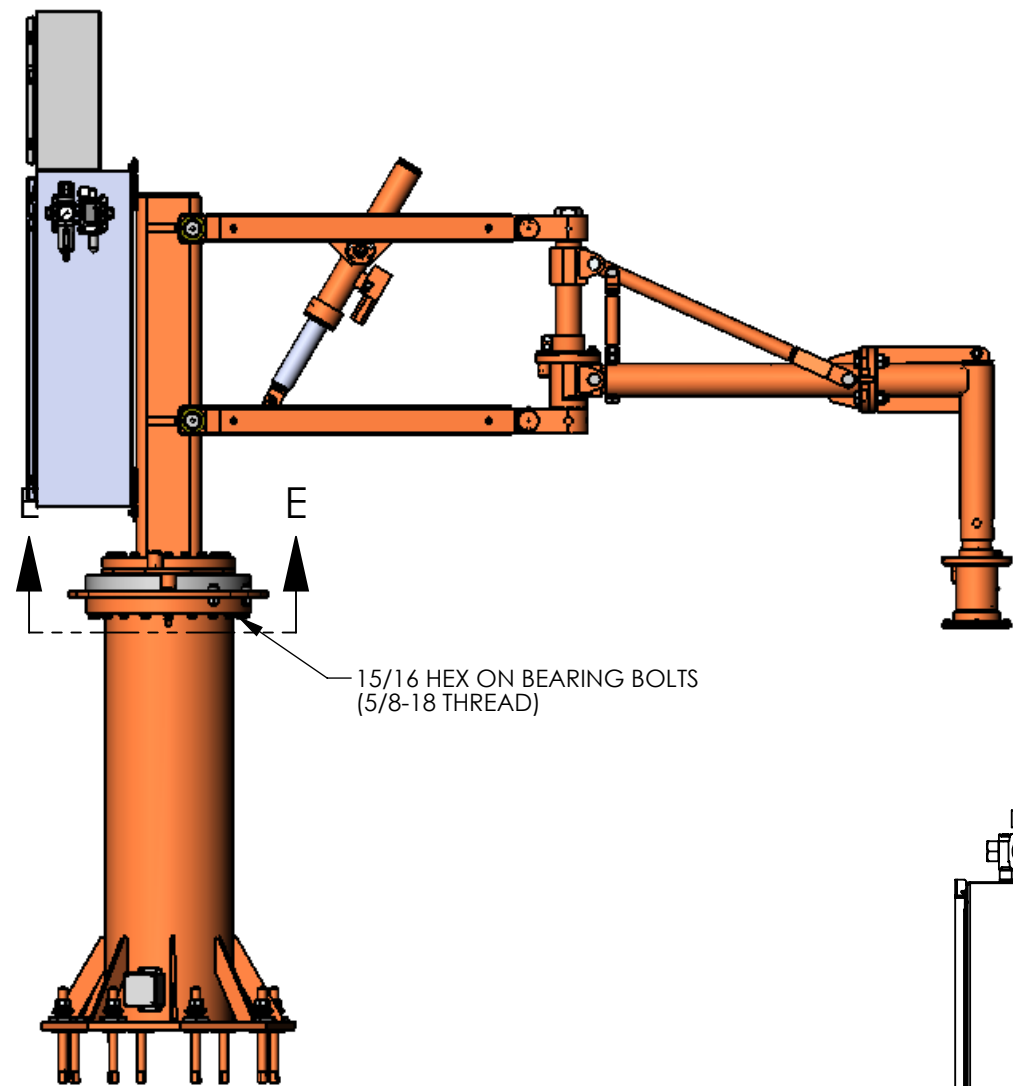


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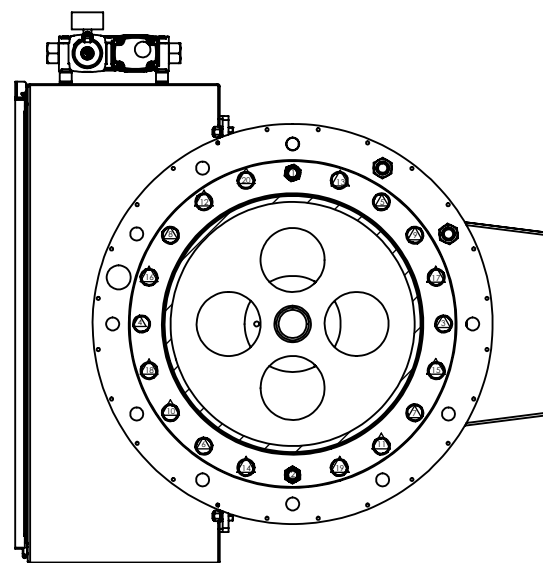


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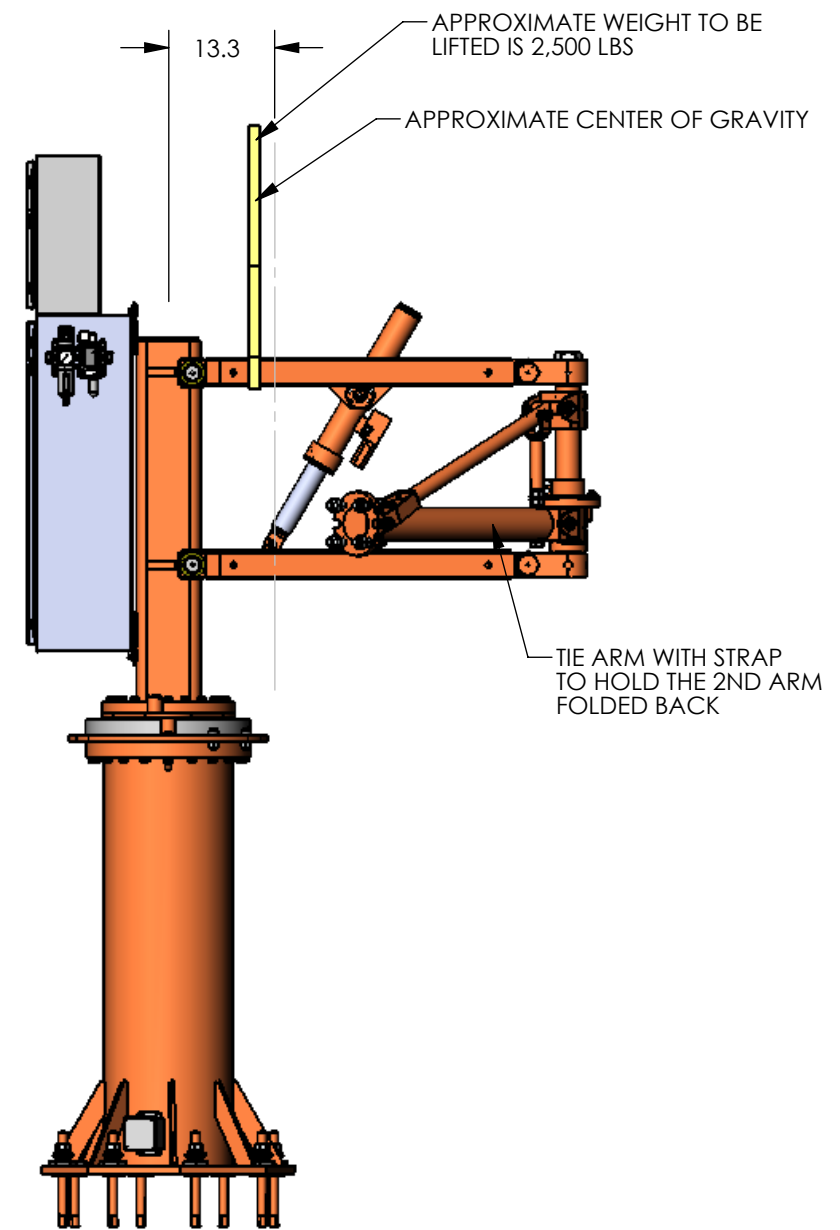
SCALE: 1:7	DATE: 12/Sep/2014	DRAWN BY: WAK
CLASS CODE: 500	DWG NO: TPA 15 INSTALL	SHT: 3 of 4 REV:



15/16 HEX ON BEARING BOLTS
(5/8-18 THREAD)



SECTION E-E
SCALE 1 : 12



13.3

APPROXIMATE WEIGHT TO BE
LIFTED IS 2,500 LBS

APPROXIMATE CENTER OF GRAVITY

TIE ARM WITH STRAP
TO HOLD THE 2ND ARM
FOLDED BACK

TORQUING THE BEARING BOLTS:

1. SEQUENCE FOR THE FIRST 10 BOLTS SHOWN.
2. ADD SERVICE GRADE THREAD LOCKER TO THE BOLTS.
3. TORQUE THE BOLTS TO 28 FT/LBS FOLLOWING THE SEQUENCE BELOW AND THEN ROTATE THE BEARING ONE FULL TURN EACH DIRECTION MAKING SURE THE BEARING ROTATES FREE.
4. TORQUE THE BOLTS TO 56 FT/LBS FOLLOWING THE SEQUENCE BELOW AND THEN ROTATE THE BEARING ONE FULL TURN EACH DIRECTION MAKING SURE THE BEARING ROTATES FREE.
5. FINAL TORQUE THE BOLTS TO 83 FT/LBS FOLLOWING THE SEQUENCE BELOW AND THEN ROTATE THE BEARING ONE FULL TURN EACH DIRECTION MAKING SURE THE BEARING ROTATES FREE.

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