Journeyman Event - Crossarm Replacement

Chief Judge: Jason Hucks

Event Time: 8 Minutes
Drop Dead Time: 12 Minutes

Team is required to replace an 8ft. crossarm on a simulated de-energized and grounded "3" phase structure. New crossarm, braces, insulator pins, insulators, brace bolts, preformed ties and rubber grommets will be provided and all must be replaced. The old through bolt can be re-used. The primary can be floated while the crossarm is being replaced. The old arm must be disassembled before time stops.

- 1. Time starts at the judge's signal.
- 2. Teams will be allowed a 5-minute setup time. The team may direct questions to the judge at this time.
- 3. Rubber gloves are not required for this event. The team must wear work gloves at all times.
- 4. The new crossarm must be assembled after the event time begins.
- 5. A screwdriver will be the only tool allowed for picking the old preformed ties.
- 6. All tools, materials and equipment must be sent up and down using the handline with the exception of the rubber grommets.
- 7. Tools and equipment must remain inside the circle.
- 8. Climbers must wear gaff guards outside of the event circle.
- 9. Time stops when the task has been completed, the old crossarm has been disassembled (all nuts and washers on bolts), and the last climber is on the ground.
- 10. Battery powered tools will not be permitted.
- 11. Judging will continue until all material is packed up and the event site is restored to the original condition.
- 12. All general rules apply.

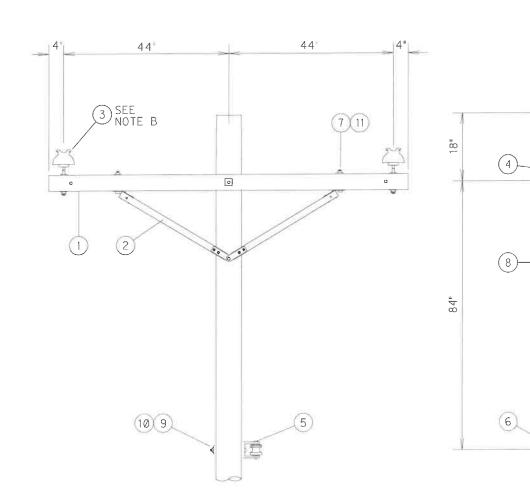


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NOTES:

A. GROUNDING DETAILS CAN BE FOUND IN THE GROUNDING SECTION OF THIS MANUAL.

► B. IN COASTAL AREAS USE INSULATOR #022-220125.

QTY.	DESCRIPTION		ITEM	ITEM ID NO.		OTY.	DESCRIPTION			ITEM ID NO.	
1	CROSSARM, 4" X 5" X 8'		562-203119		7	2	BOLT, MCH. 1/2" × 7"		070-181436		
2	BRACE, WOOD CA 60"		563-209104		8	1	SCREW, LAG 1/2"X4-1/2"		070-181866		
2	INSULATOR, PIN TYPE		022-220134		9	2	BOLT, MCH. 5/8"X REO'D				
2	PIN, STEEL INS. $\frac{5}{8}$ " × $6\frac{1}{2}$ "		072-1	85224	10	3	WASHER 2" SQ. 11/16" HOLE			070-181964	
1	CLEVIS, SEC.		071-229174		11	2	WASHER, 2" SQ. 9/16" HOLE			Ø7Ø-181961	
1	INSULATOR, SEC. SPOOL		023-2	25102	GROUNDING MATERIAL - SEE GROUNDING SECTION						
							CII	NOLE DOIM	NDV CII	IDDADT	-
7-03	POLY INSULATOR CHG	KT	JEC	SER	CROSSARM CONSTRUCTION TWO PHASE 7.2 / 12.47kV						
0-95	RM POLE FR BOM	EGD	JEC	GC							
9-94	REV. NOTES & BOM	PS	JEC	GC							
DATE	DESCRIPTION	BY	D.ENG	D.SUP	D.EN	G JEC) B	Y PBS	APVD	gc	APVD
	1 2 2 2 1 1 7-03 0-95 9-94	1 CROSSARM, 4" X 5" X 8' 2 BRACE, WOOD CA 60" 2 INSULATOR, PIN TYPE 2 PIN, STEEL INS. 5/8" × 61/2" 1 CLEVIS, SEC. 1 INSULATOR, SEC. SPOOL 7-03 POLY INSULATOR CHG 0-95 RM POLE FR BOM 9-94 REV. NOTES & BOM	1 CROSSARM, 4" X 5" X 8' 2 BRACE, WOOD CA 60" 2 INSULATOR, PIN TYPE 2 PIN, STEEL INS. 5%" × 61/2" 1 CLEVIS, SEC. 1 INSULATOR, SEC. SPOOL 7-03 POLY INSULATOR CHG KT 0-95 RM POLE FR BOM EGD 9-94 REV. NOTES & BOM PS	1 CROSSARM, 4" X 5" X 8' 562-2 2 BRACE, WOOD CA 60" 563-2 2 INSULATOR, PIN TYPE 022-2 2 PIN, STEEL INS. 5%" x 61/2" 072-1 1 CLEVIS, SEC. 071-2 1 INSULATOR, SEC. SPOOL 023-2 7-03 POLY INSULATOR CHG KT JEC 0-95 RM POLE FR BOM EGD JEC 9-94 REV. NOTES & BOM PS JEC	1 CROSSARM, 4" X 5" X 8' 562-203119 2 BRACE, WOOD CA 60" 563-209104 2 INSULATOR, PIN TYPE 022-220134 2 PIN, STEEL INS. 5%" x 6½" 072-185224 1 CLEVIS, SEC. 071-229174 1 INSULATOR, SEC. SPOOL 023-225102 7-03 POLY INSULATOR CHG KT JEC SER 0-95 RM POLE FR BOM EGD JEC GC 9-94 REV. NOTES & BOM PS JEC GC	1 CROSSARM, 4" X 5" X 8' 562-203119 7 2 BRACE, WOOD CA 60" 563-209104 8 2 INSULATOR, PIN TYPE 022-220134 9 2 PIN, STEEL INS. 5%" x 61/2" 072-185224 10 1 CLEVIS, SEC. 071-229174 11 1 INSULATOR, SEC. SPOOL 023-225102 GROUND 023-22	1 CROSSARM, 4" X 5" X 8' 562-203119 7 2 2 BRACE, WOOD CA 60" 563-209104 8 1 2 INSULATOR, PIN TYPE 022-220134 9 2 2 PIN, STEEL INS. 5%" x 61/2" 072-185224 10 3 1 CLEVIS, SEC. 071-229174 11 2 1 INSULATOR, SEC. SPOOL 023-225102 GROUNDING 7-03 POLY INSULATOR CHG KT JEC SER 0-95 RM POLE FR BOM EGD JEC GC 9-94 REV. NOTES & BOM PS JEC GC	1 CROSSARM, 4" X 5" X 8' 562-203119 7 2 BOL 2 BRACE, WOOD CA 60" 563-209104 8 1 SCR 2 INSULATOR, PIN TYPE 022-220134 9 2 BOL 2 PIN, STEEL INS. 5%" x 6½" 072-185224 10 3 WAS 1 CLEVIS, SEC. 071-229174 11 2 WAS 1 INSULATOR, SEC. SPOOL 023-225102 GROUNDING MAT 7-03 POLY INSULATOR CHG KT JEC SER 0-95 RM POLE FR BOM EGD JEC GC TW 9-94 REV. NOTES & BOM PS JEC GC	1 CROSSARM, 4" X 5" X 8' 2 BRACE, WOOD CA 60" 3 ESSARM, 4" X 5" X 8' 2 INSULATOR, PIN TYPE 3 PIN, STEEL INS. 5%" X 61/2" 4 O72-185224 5 O71-229174 7 O83 POLY INSULATOR CHG 6 O-95 RM POLE FR BOM 6 OF OF OR	1 CROSSARM, 4" X 5" X 8' 2 BRACE, WOOD CA 60" 3 FOR STREEL INS. 5%" X 61/2" 3 POLY INSULATOR CHG 4 FR BOM 5 FR	1 CROSSARM, 4" X 5" X 8' 2 BRACE, WOOD CA 60" 3 1 SCREW, LAG 1/2"X4-1/2" 2 INSULATOR, PIN TYPE 3 PIN, STEEL INS. 5%" X 61/2" 4 O72-185224 5 O71-229174 7 OR ONLY INSULATOR, SEC. SPOOL 5 OR ONLY INSULATOR CHG 6 OF ONLY INSULATOR CHG 6 OF ONLY INSULATOR CHG 7 OR ONLY INSULATOR CHG 6 OF ONLY INSULATOR CHG 7 OR ONLY INSULATOR CHG 6 OF ONLY INSULATOR CHG 7 OR ONLY INSULATOR CHG 6 OF ONLY INSULATOR CHG 7 OR ONLY INSULATOR CHG 8 OR ONLY INSULATOR CHG 9 OR O