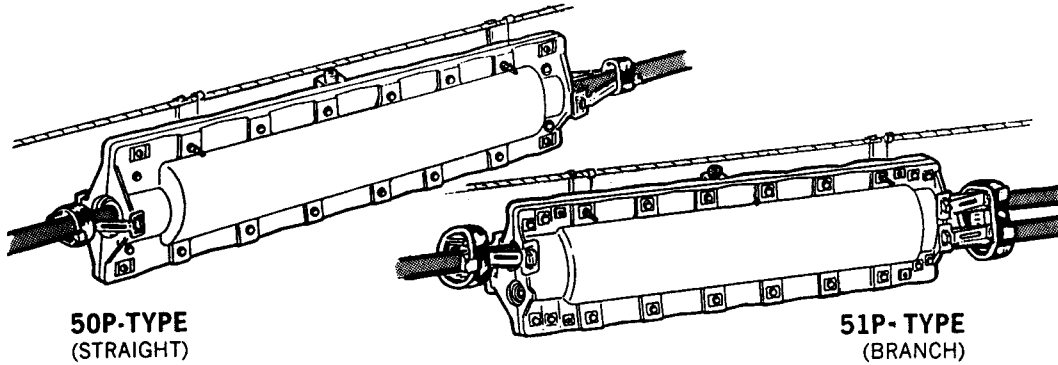
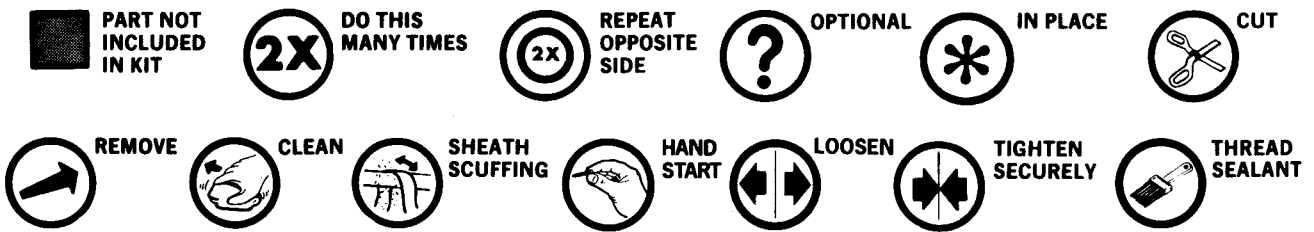


3M™ INSTALLATION PROCEDURES FOR 3M™ 50P-TYPE & 51P TYPE PRESSURIZED CLOSURE SYSTEM NOT INTENDED FOR BURIED APPLICATIONS ES

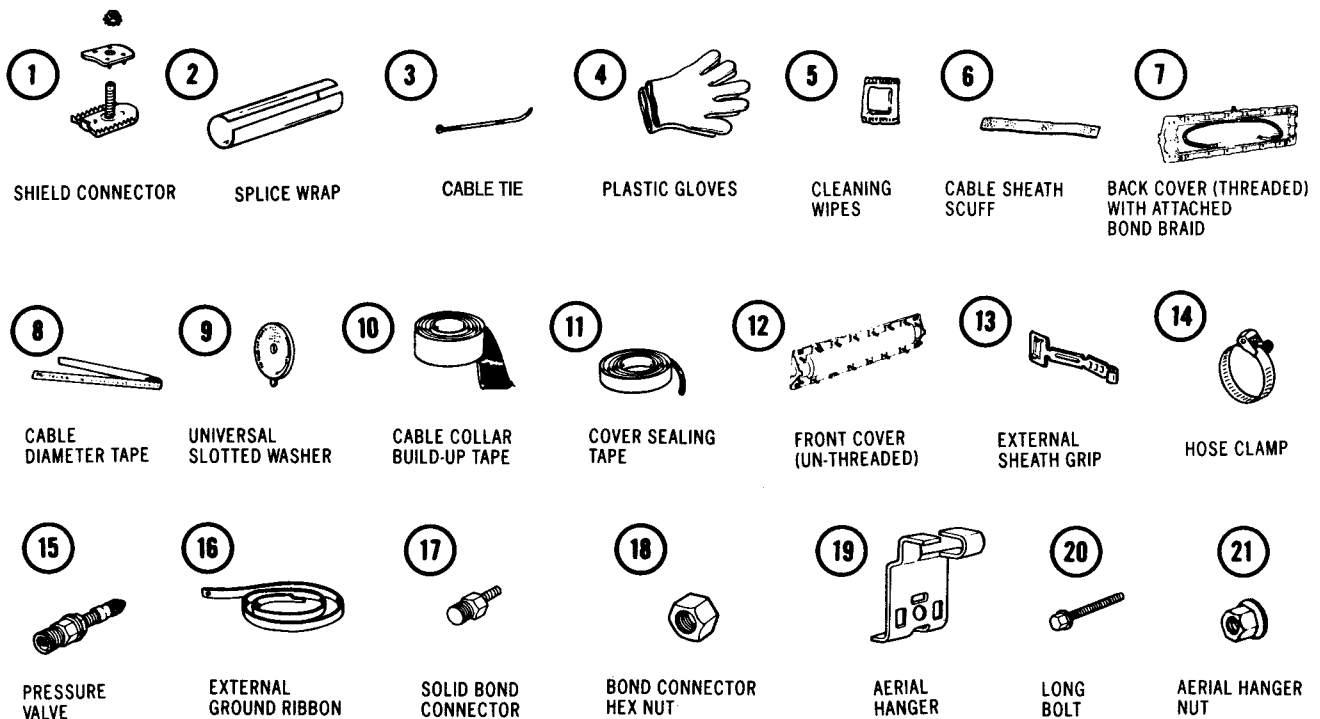
EXTERNAL SHEATH GRIP METHOD



PLEASE BECOME FAMILIAR WITH THE SYMBOLS ★ = EXTREMELY IMPORTANT STEPS TO FOLLOW



MATERIAL LIST



1 **CABLE PREPARATION 50P-TYPE**

SHEATH OPENING CLOSURE SHEATH OPENING

50AA3P	13" (330mm)
50B3P	19" (483mm)
50C3P	19" (483mm)
50D3P	19" (483mm)

CUT AND REMOVE OUTER SHEATH AND METALLIC SHIELD.

2

★ **CUT FACING FORWARD.**

CUT OUTER SHEATH AND METALLIC SHIELD FOR PLACEMENT OF THE SHIELD CONNECTOR

3

VINYL TAPE

(2X) TURNS (STICKY SIDE OUT)
TURN TAPE
(2X) TURNS (STICKY SIDE IN)

4

VINYL TAPE

CORE WRAP

METALLIC SHIELD

SLIDE TAPE BETWEEN CORE WRAP AND METALLIC SHIELD

5

SIZE	CABLE O. D.
1	UP TO 0.9 (23mm)
2	0.9 TO 1.6 (23-41mm)
3	OVER 1.6 (41mm)

SELECT PROPER SHIELD CONNECTOR AND INSTALL **FACING FORWARD.** ★

6

VINYL TAPE

7

TEMPORARY BOND

?

8

SEE STEPS 24 THRU 27.

9

CORE WRAP

CUT AND REMOVE CORE WRAP.

10

SPLICE CONDUCTORS PER COMPANY STANDARDS AND SECURE SPLICE WRAP.

DO NOT PUT BOND INSIDE WRAP.

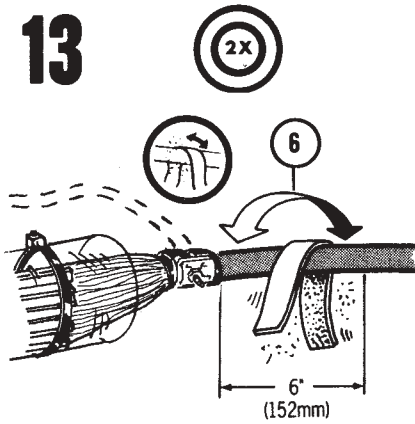
11

12

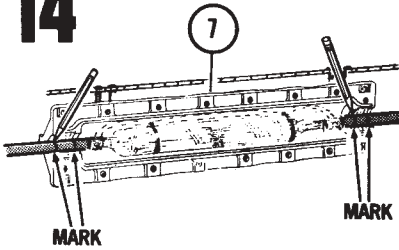
6" (152mm)

NOTE: See Cleaner MSDS for health, safety and environmental information.

13

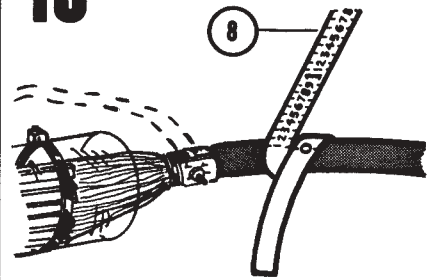


14



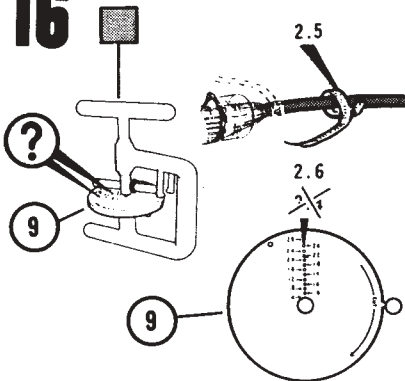
AFTER COMPLETING SPLICE, CENTER COVER OVER SPLICE. MARK CABLE WHERE WASHERS WILL FIT INTO BACK COVER.

15

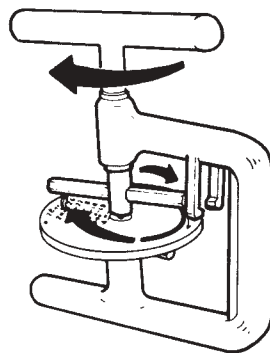


16

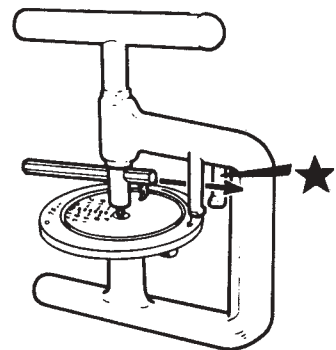
WCT11K WASHER CUTTER TOOL



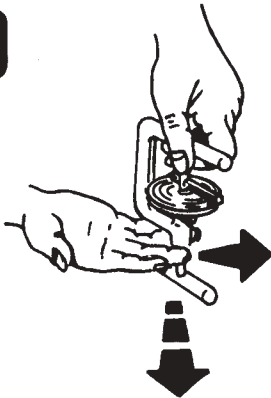
17



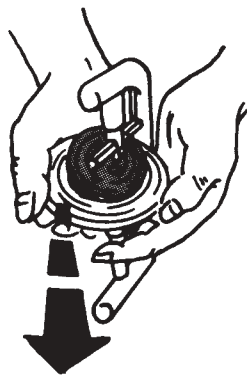
18



19



20

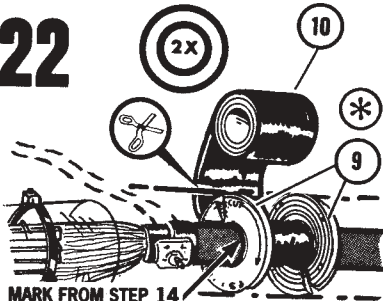


21

CUT WASHER AT DIMENSIONAL HOLES



22

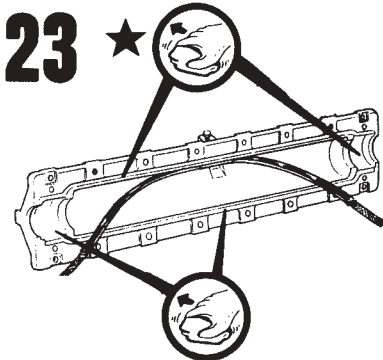


MARK FROM STEP 14

WASHER GROOVES SHALL BE INWARDS, FACING TAPE.

★ WRAP FLUSH WITH OR SLIGHTLY LARGER THAN WASHER DIAMETER.

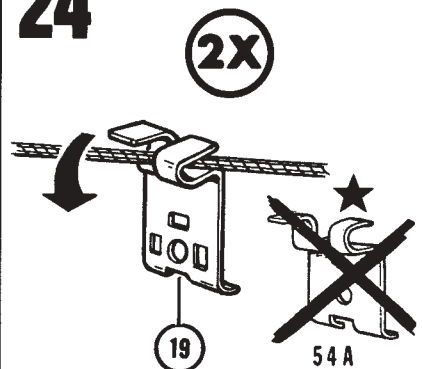
23

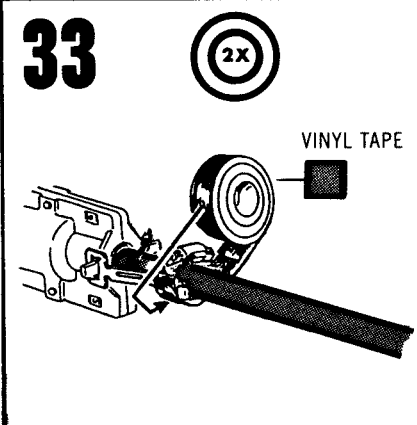
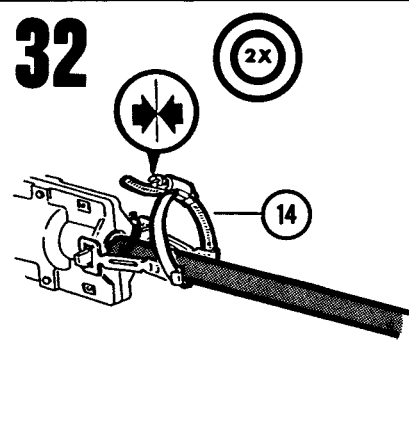
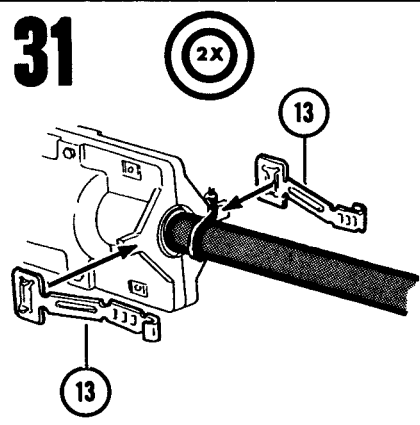
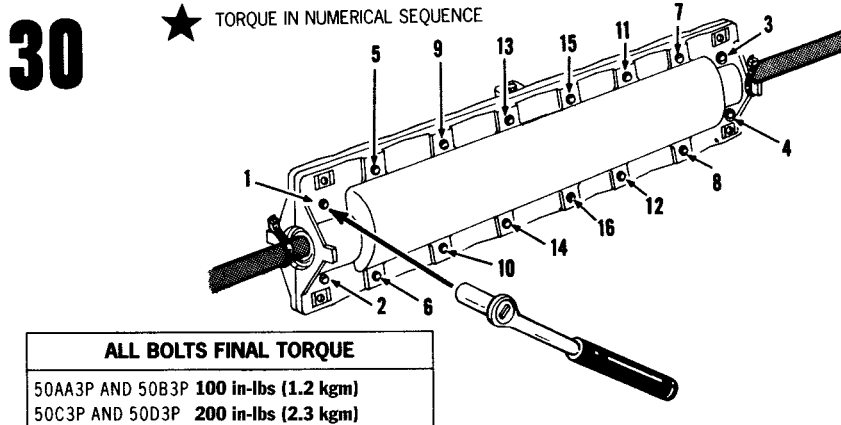
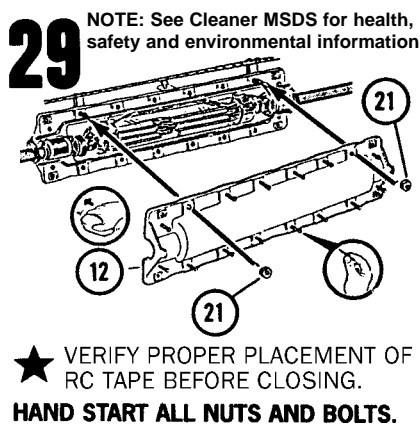
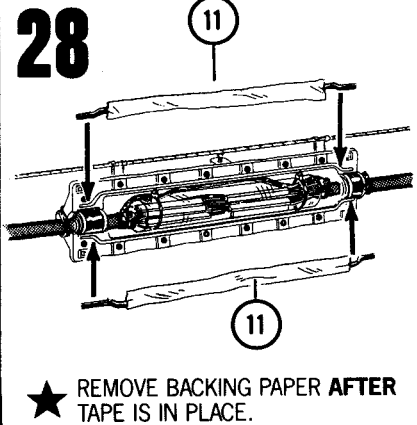
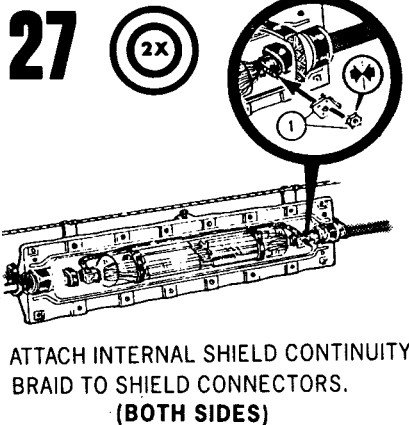
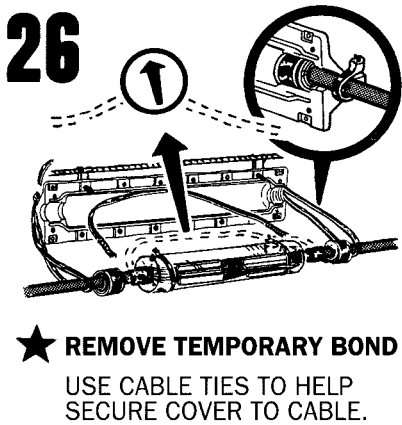
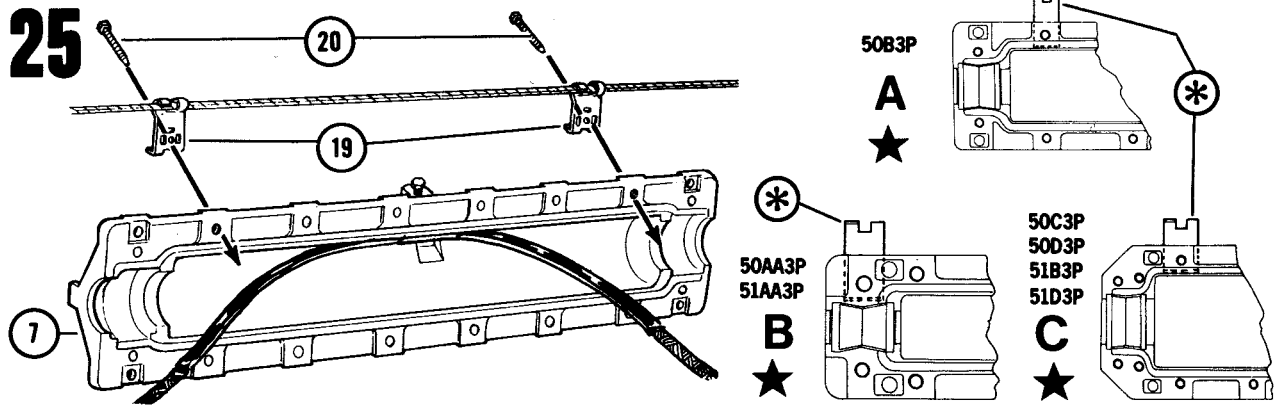


NOTE: See Cleaner MSDS for health, safety and environmental information.

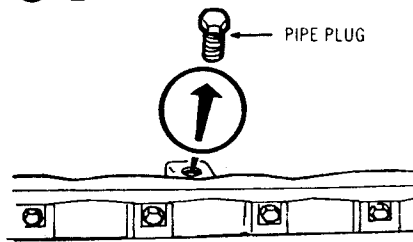
24

AERIAL PROCEDURE

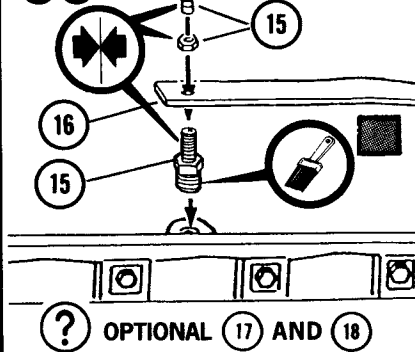




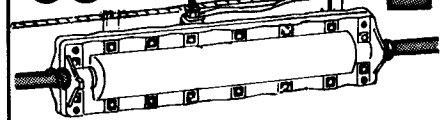
34 PRESSURIZATION



35 TORQUE TO 50-70 in-lbs (0.6-0.8 kgm)



36 FLASH TEST

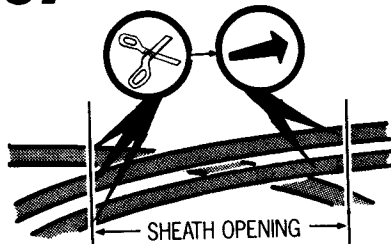


FLASH TEST TO MAXIMUM PRESSURE OF 20 P.S.I. (1.4 BARS). MAINTAIN A BACK PRESSURE OF 5 P.S.I. (0.4 BARS).

CHECK FOR LEAKS.

EXTERNAL GROUND AND CABLE SPACERS PER LOCAL PRACTICES.

37 CABLE PREPARATION 51P-TYPE

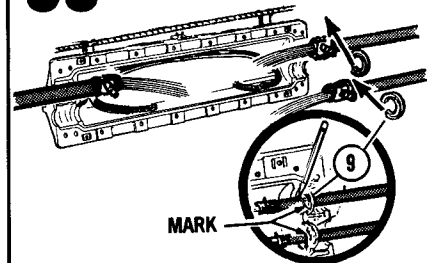


CLOSURE	SHEATH OPENING
51AA3P	13" (330mm)
51B3P	19" (483mm)
51D3P	19" (483mm)

CUT AND REMOVE OUTER SHEATH AND METALLIC SHIELD.

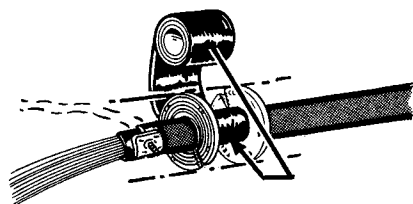
SEE STEPS 2 THRU 9.

38 BRANCH SIDE



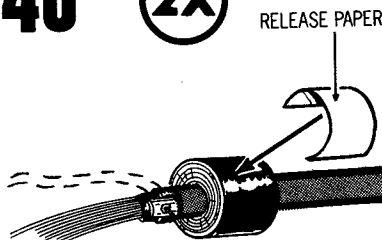
CENTER COVER OVER SPLICE. MARK CABLE ON BRANCH SIDE WHERE WASHERS WILL FIT INTO BACK COVER.

39 (2X)



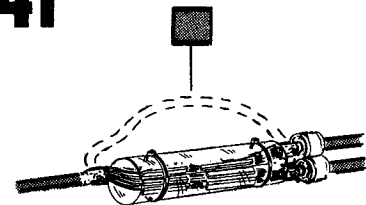
SEE STEPS 12 AND 13 THEN 15 THRU 22 FOR COLLAR BUILDUP.

40 (2X)



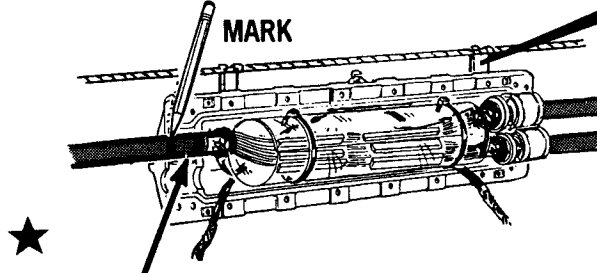
PLACE RELEASE PAPER AROUND COLLAR TO KEEP CLEAN.

41



SPLICE CONDUCTORS PER COMPANY STANDARDS AND SECURE SPLICE WRAP. DO NOT PUT BOND INSIDE WRAP.

42 SINGLE SIDE

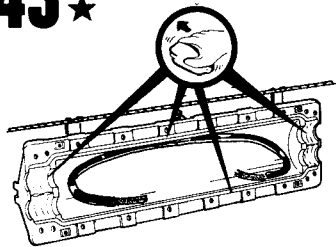


USE BACK COVER HALF TO MARK WASHER LOCATION ON SINGLE CABLE ENTRY SIDE.

SEE STEPS 24 AND 25 FOR AERIAL HANGER INSTALLATION.

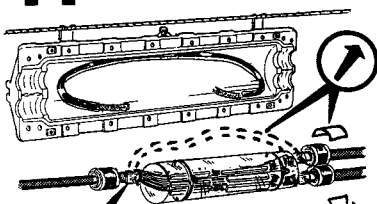
SEE STEPS 12 AND 13 THEN 15 THROUGH 22 FOR COLLAR BUILDUP.

43 ★ VERY IMPORTANT STEP



NOTE: See Cleaner MSDS for health, safety and environmental information.

44

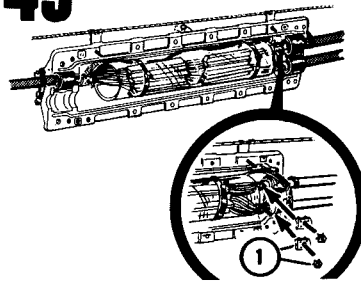


SEE STEPS 26 AND 27.

USE CABLE TIES TO HELP SECURE COVER TO CABLE.

RELEASE PAPER

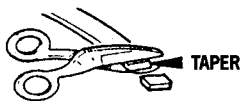
45



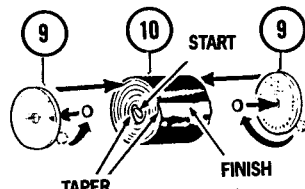
SEE STEP 26 AND 27 FOR ATTACHING SHIELD CONTINUITY BRAID.

46

PLUGGING UNUSED OPENING



TAPER

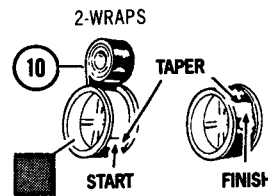


TAPER

FINISH

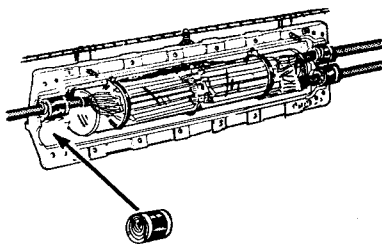


OVERLAP

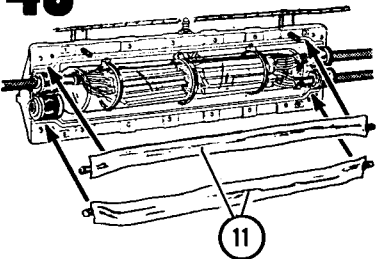


PLUGGING SPOOL

47



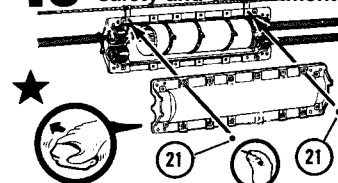
48



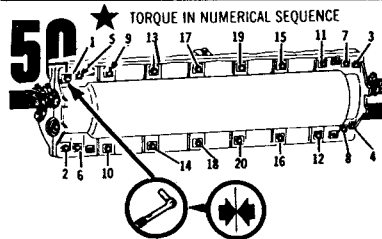
★ REMOVE BACKING PAPER AFTER TAPE IS IN PLACE.

49

NOTE: See Cleaner MSDS for health, safety and environmental information.



★ VERIFY PROPER PLACEMENT OF RC TAPE BEFORE CLOSING. HAND START ALL NUTS AND BOLTS. SEE STEPS 31 THRU 33 (BOTH ENDS) FOR EXTERNAL SHEATH RETENTION.



50

★ TORQUE IN NUMERICAL SEQUENCE

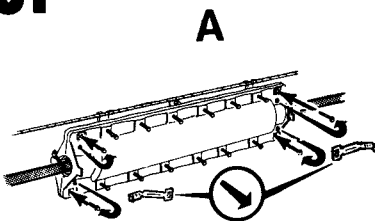
FINAL BOLT TORQUE

51AA3P	100 in-lbs (1.2 kgm)
51B3P AND 51D3P	200 in-lbs (2.3 kgm)

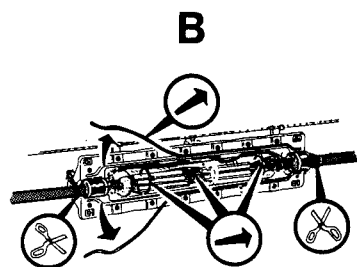
FOR EXTERNAL GROUNDING AND FLASH TEST, SEE STEPS 34 THRU 36.

51

RE-ENTRY PROCEDURE



A



B

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Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use.

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