

“PULSE* 120” – SG-1A

ELECTRONIC PRIVATE AUTOMATIC BRANCH EXCHANGE

STATION LINE TRANSMISSION AND/OR DIALING FAULT

CLEARING PROCEDURE

1. GENERAL

1.01 This section describes the procedure for clearing transmission and/or dialing faults. Transmission faults include noise, crosstalk, hum, and audible dial pulses at the faulty station lines in the PULSE 120 Electronic Private Automatic Branch Exchange (EPABX).

1.02 This section also describes the rotary dial fault clearing procedure. (For DIGITONE* fault clearing procedures, see Section 553-5011-508.) The rotary dial faults usually occur in a single line, a 10's group, a complete shelf, or the whole system, and not in several lines in different 10's groups or line shelves.

2. FAULT CLEARING PROCEDURE

2.01 When the substitution of a circuit pack is required during the fault clearing procedure, the contacts on the new circuit pack must be cleaned as described in Section 553-5011-500 before inserting the circuit pack into the connector.

Note: This asterisk (*) after the circuit pack code replaces the suffix letter.

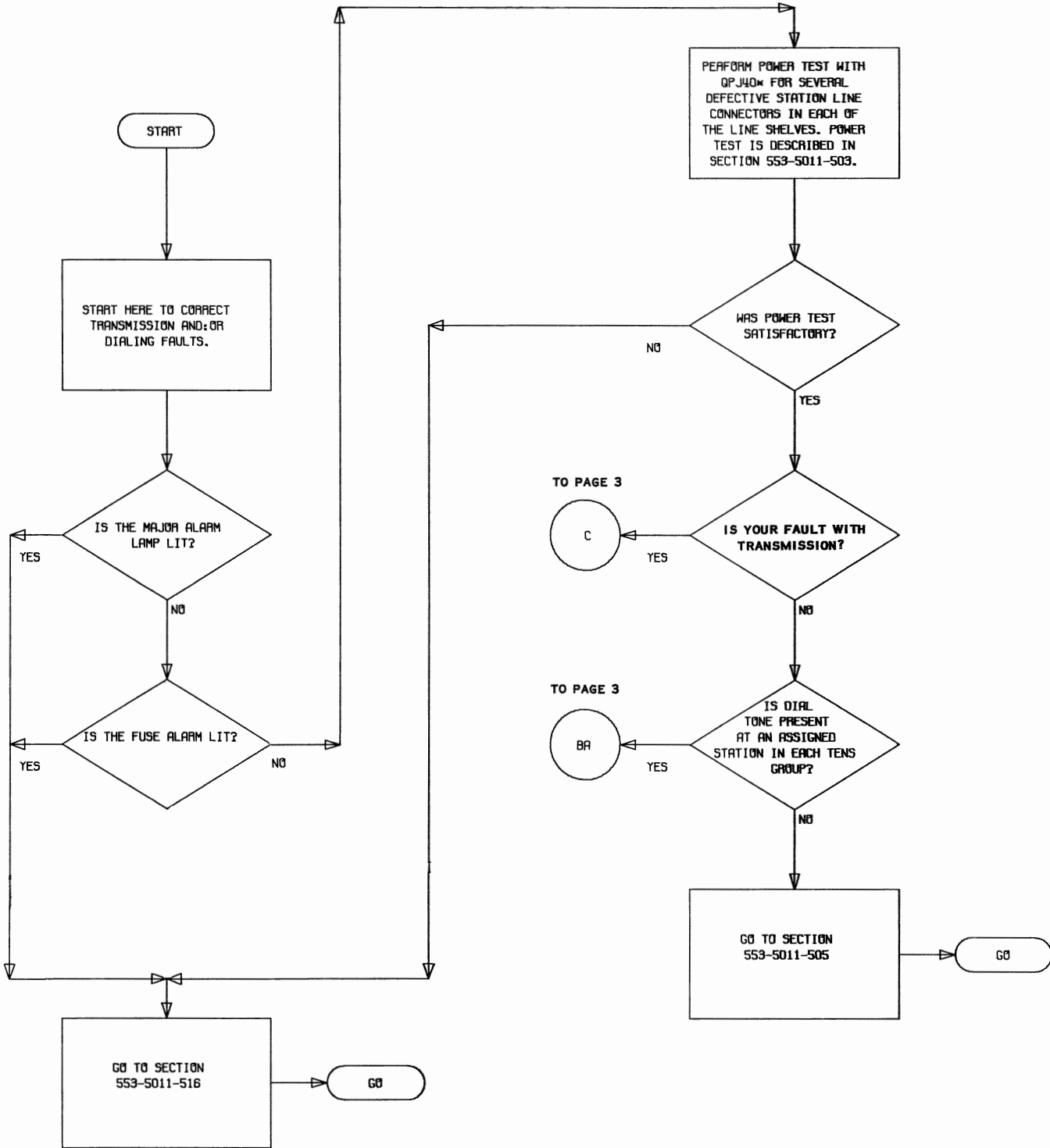
2.02 If a fault is cleared by circuit pack substitution and *the original circuit pack has not caused a fuse to blow and/or there is no visual evidence of burnt or damaged components*, the contacts on this circuit pack and its associated connector must be cleaned. The original circuit pack is then inserted in the connector and if the fault reappears the new circuit pack is reinserted.

2.03 If different and/or additional faults are created in the system by substituting a circuit pack, tag and return the replacement as a defective unit.

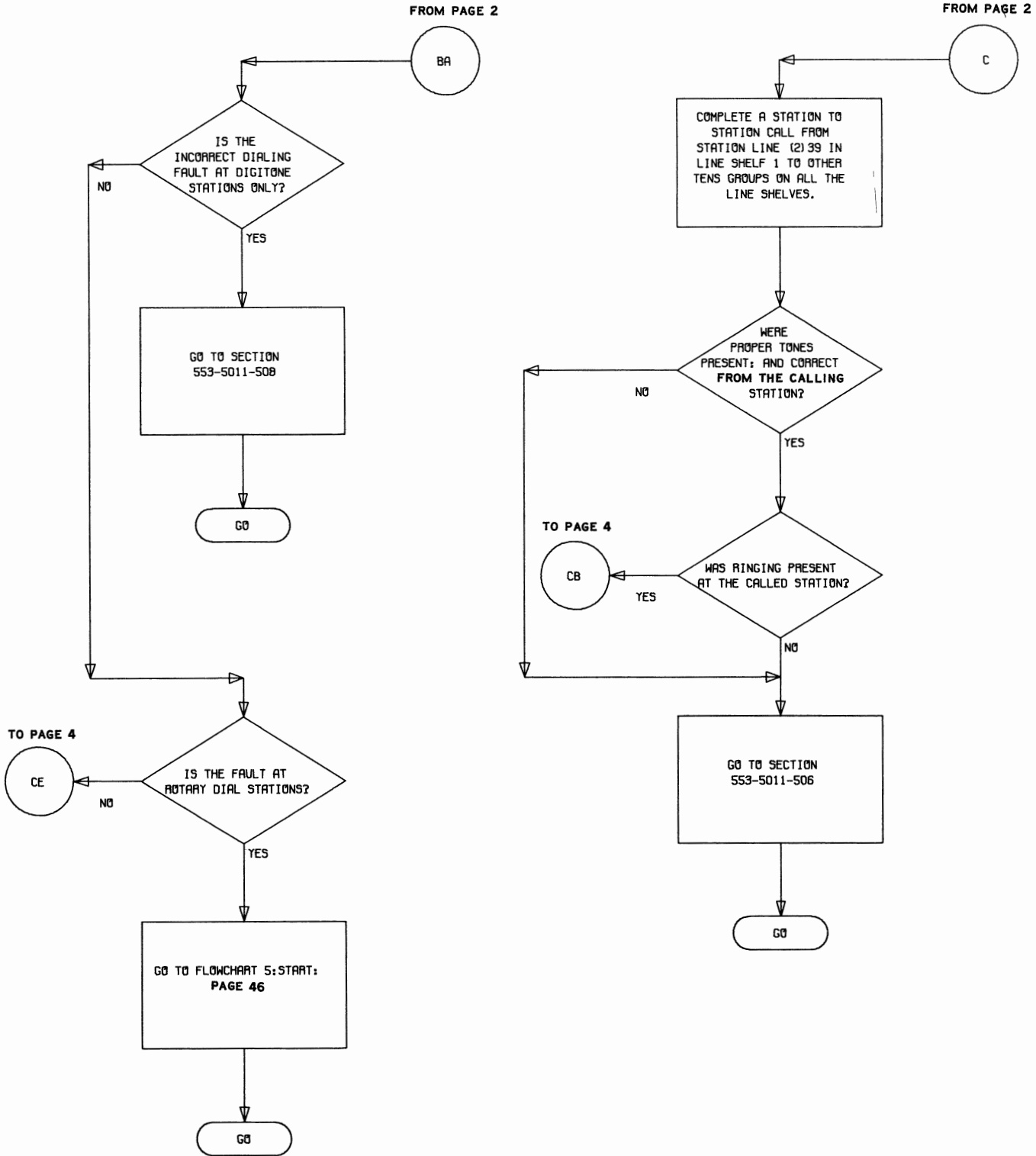
2.04 If the fault is not cleared by substitution of a circuit pack, the original circuit pack must be reinserted in the connector.

2.05 The instructions for substituting a shelf are given in Section 553-5011-202.

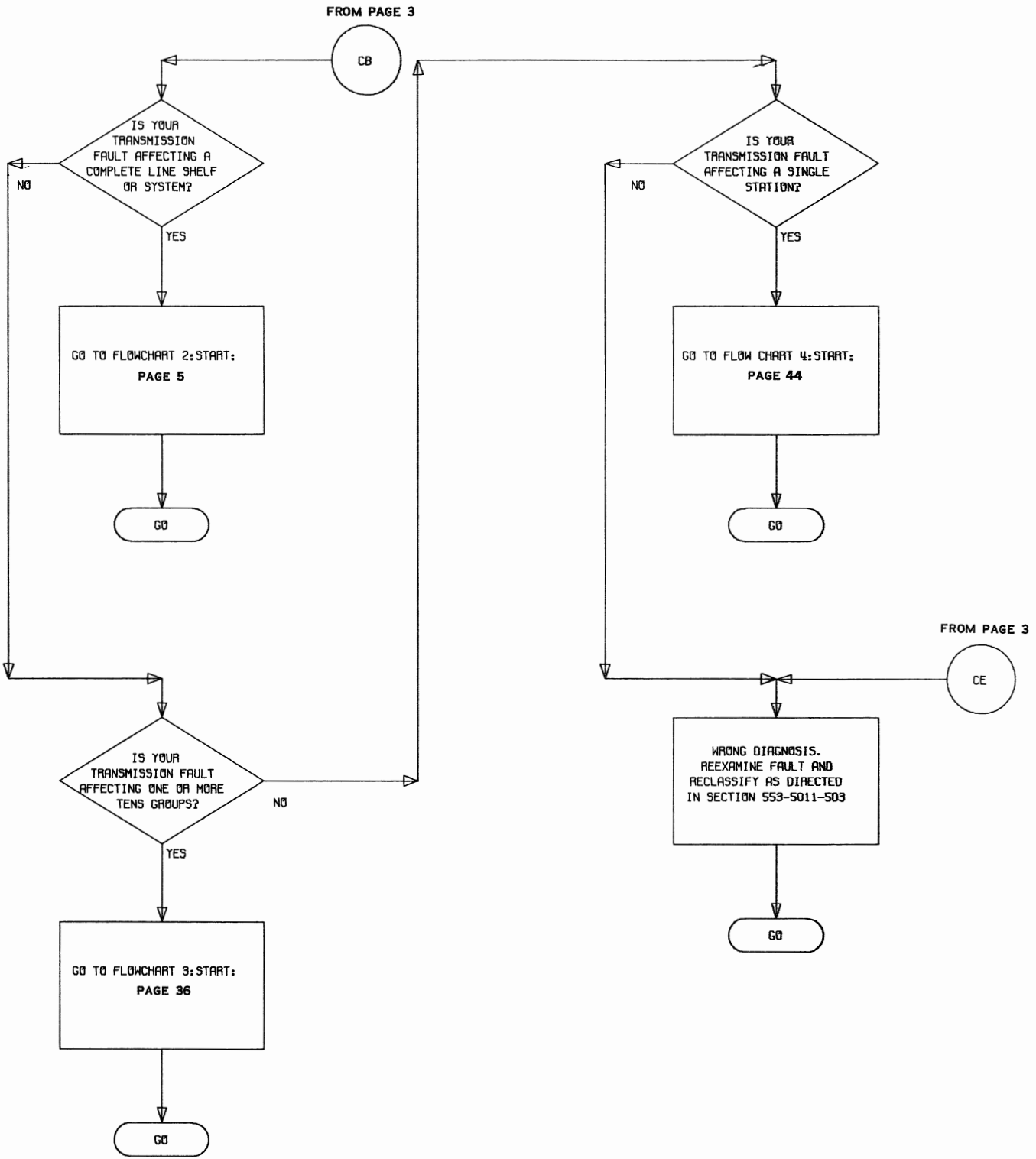
2.06 When the fault clearing procedure is completed, make a visual check to ensure that all circuit packs are well seated in their connectors and screws are tight in connector plugs and jacks. The EPABX internal cable arrangement is given in Section 553-5011-501.



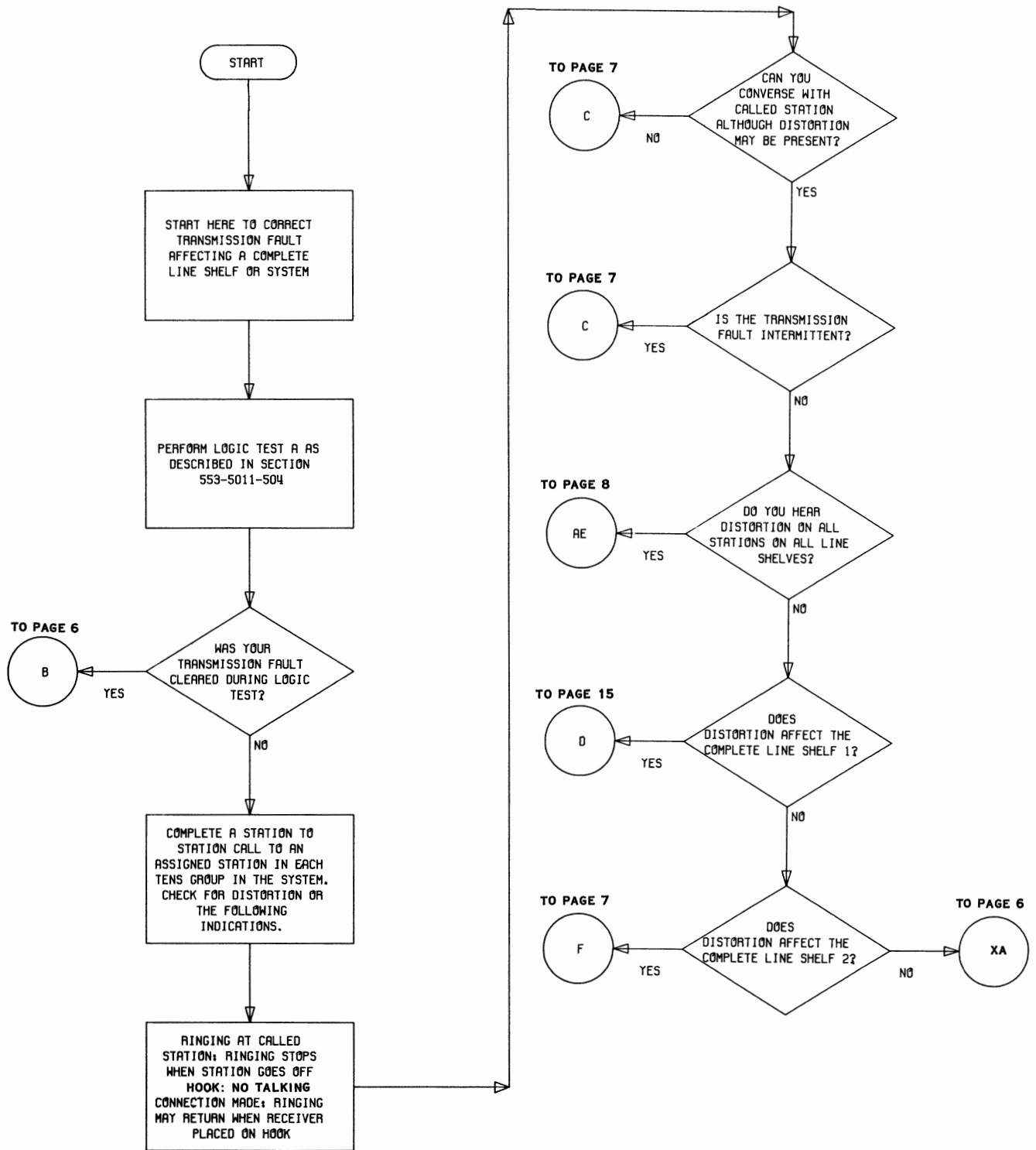
Flowchart 1 – Transmission and/or Dialing Fault Classification



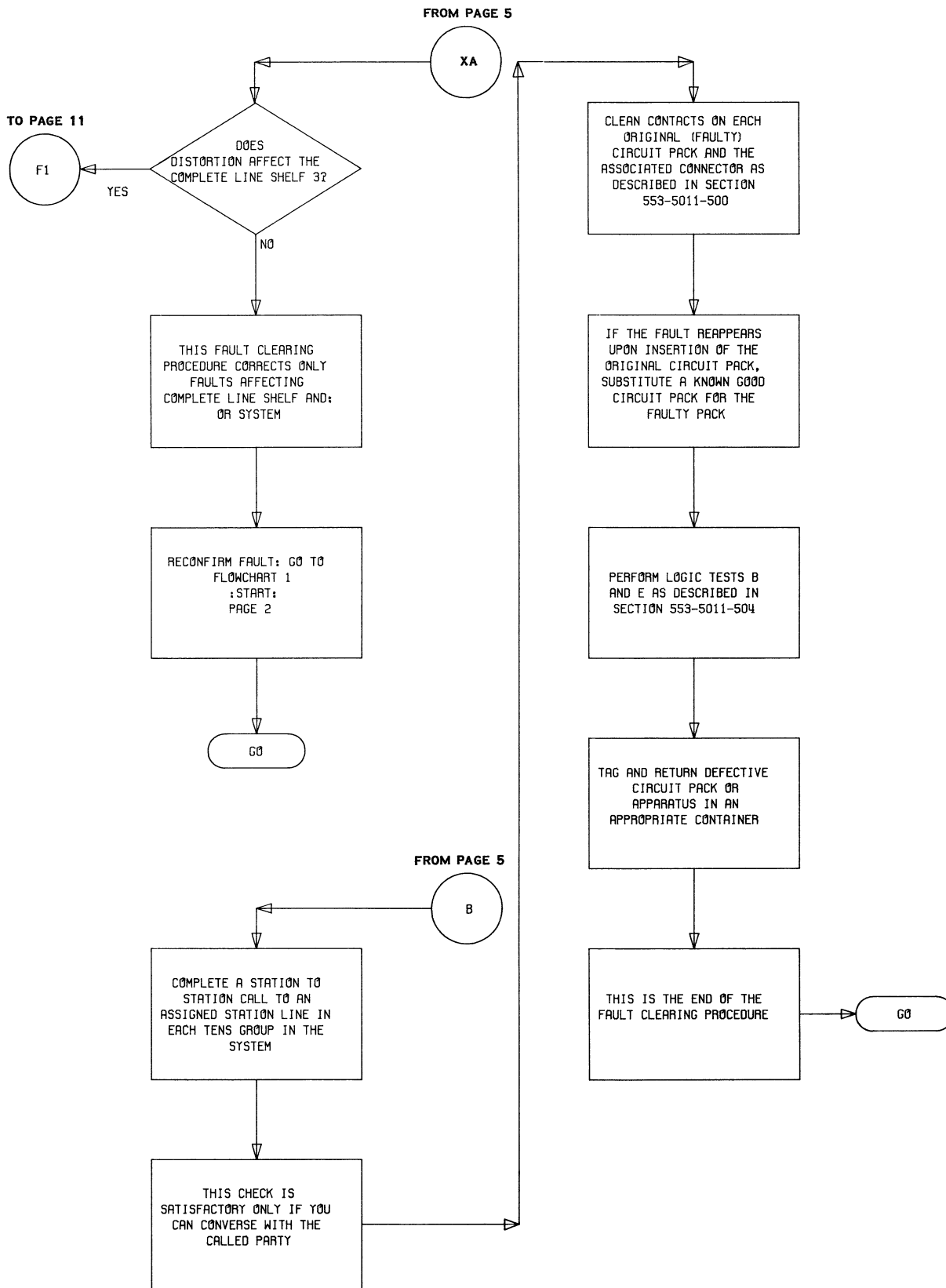
Flowchart 1 (Cont)



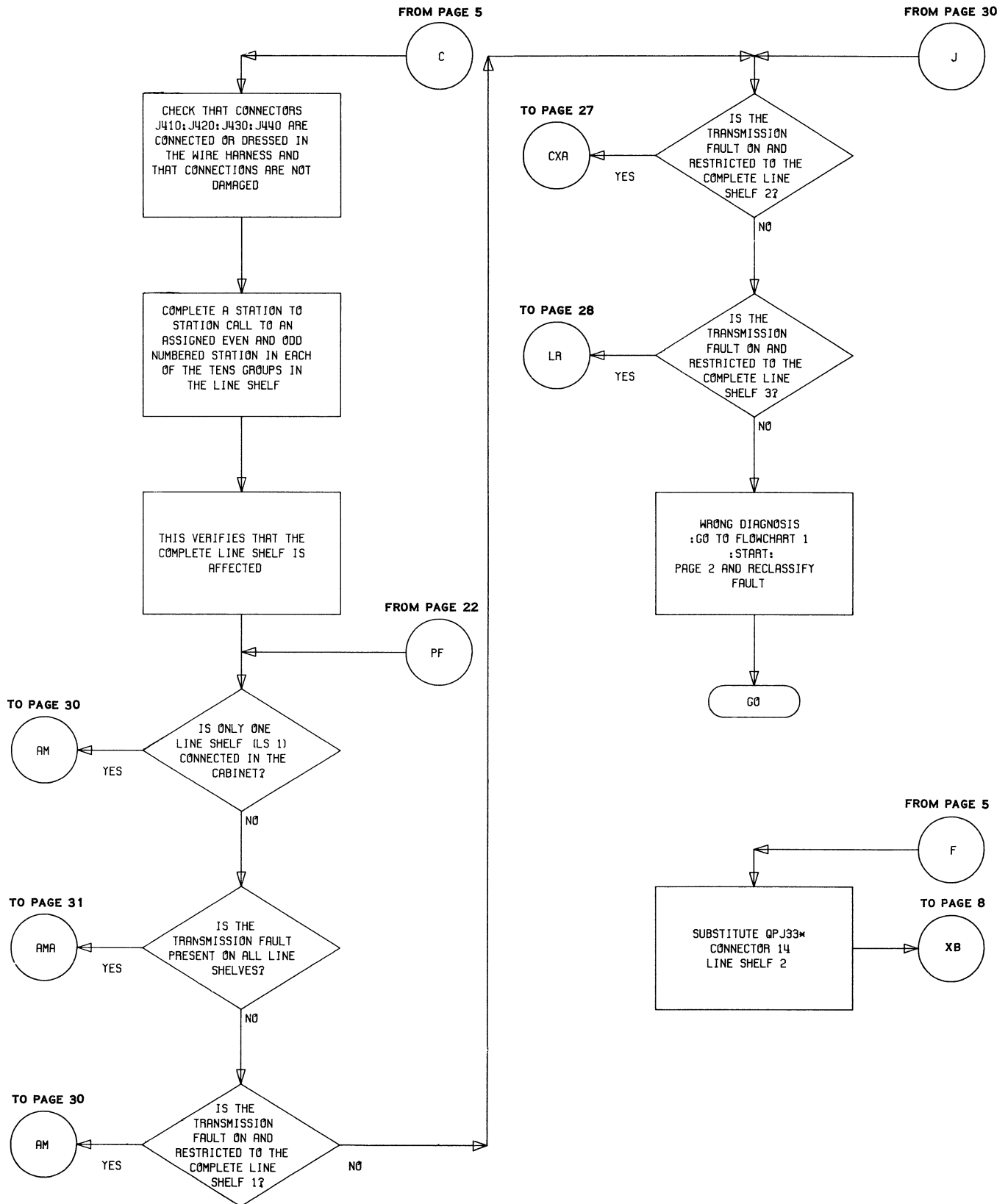
Flowchart 1 (Cont)



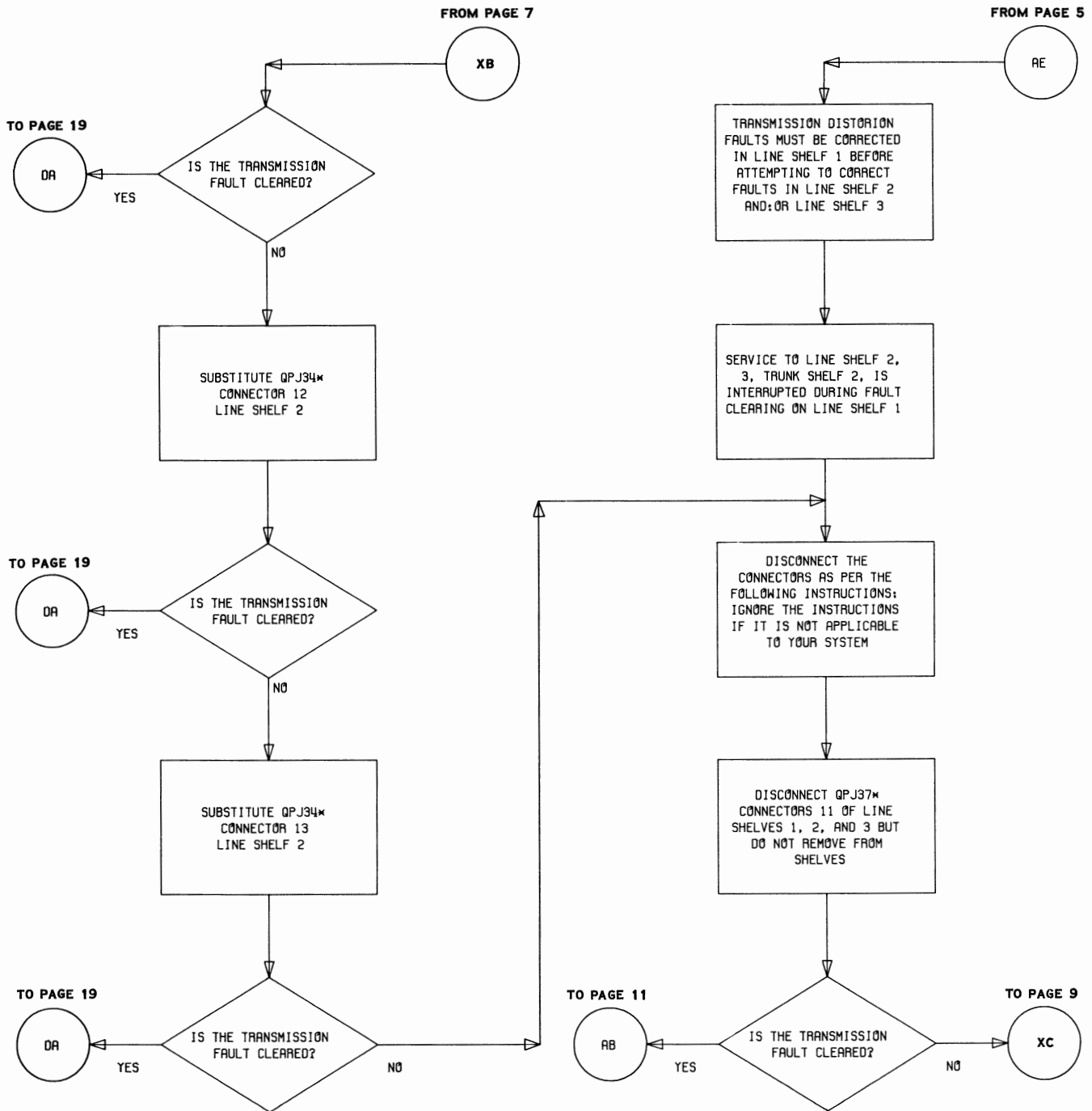
Flowchart 2 – Transmission Fault Affecting a Complete Line Shelf or System



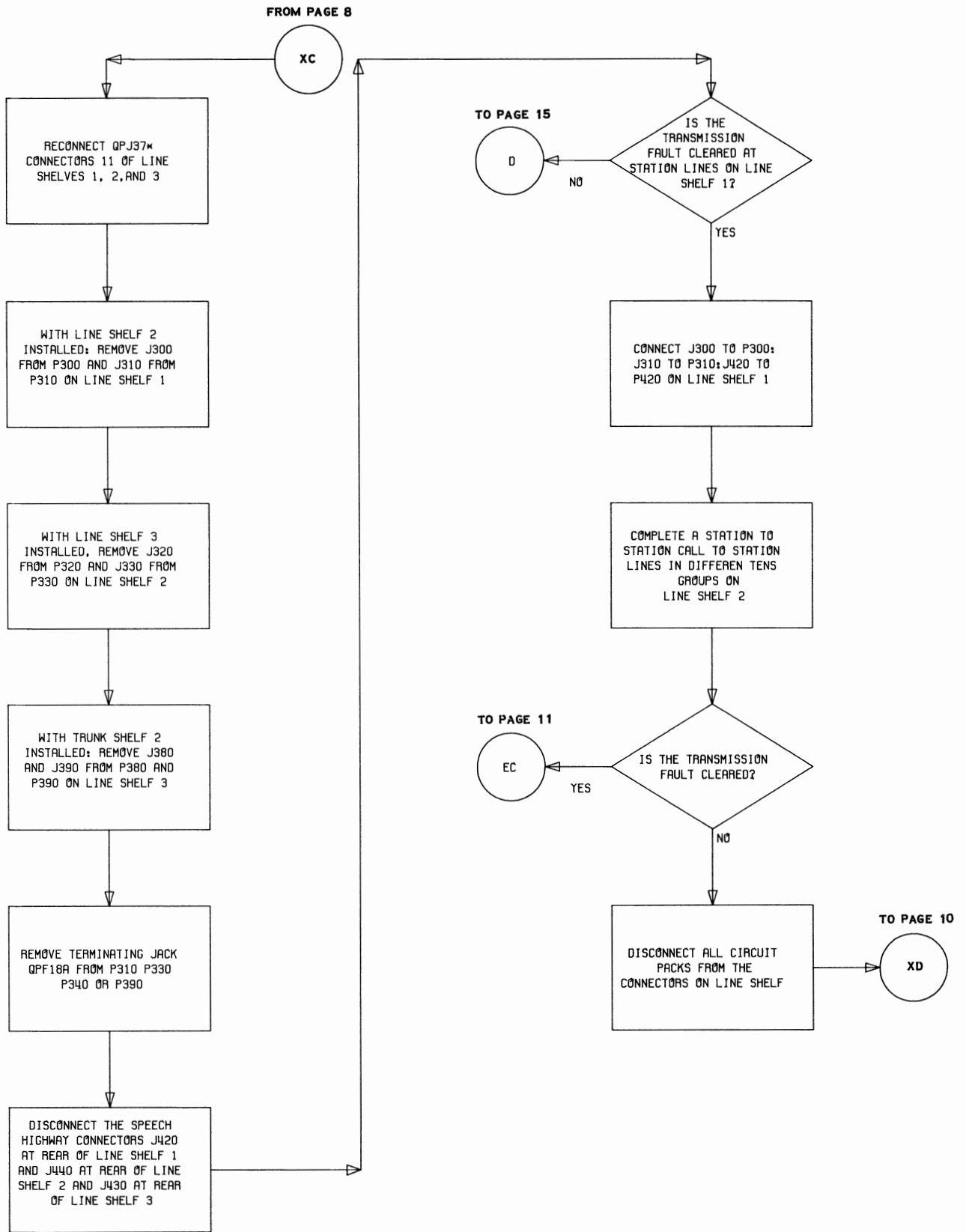
Flowchart 2 (Cont)



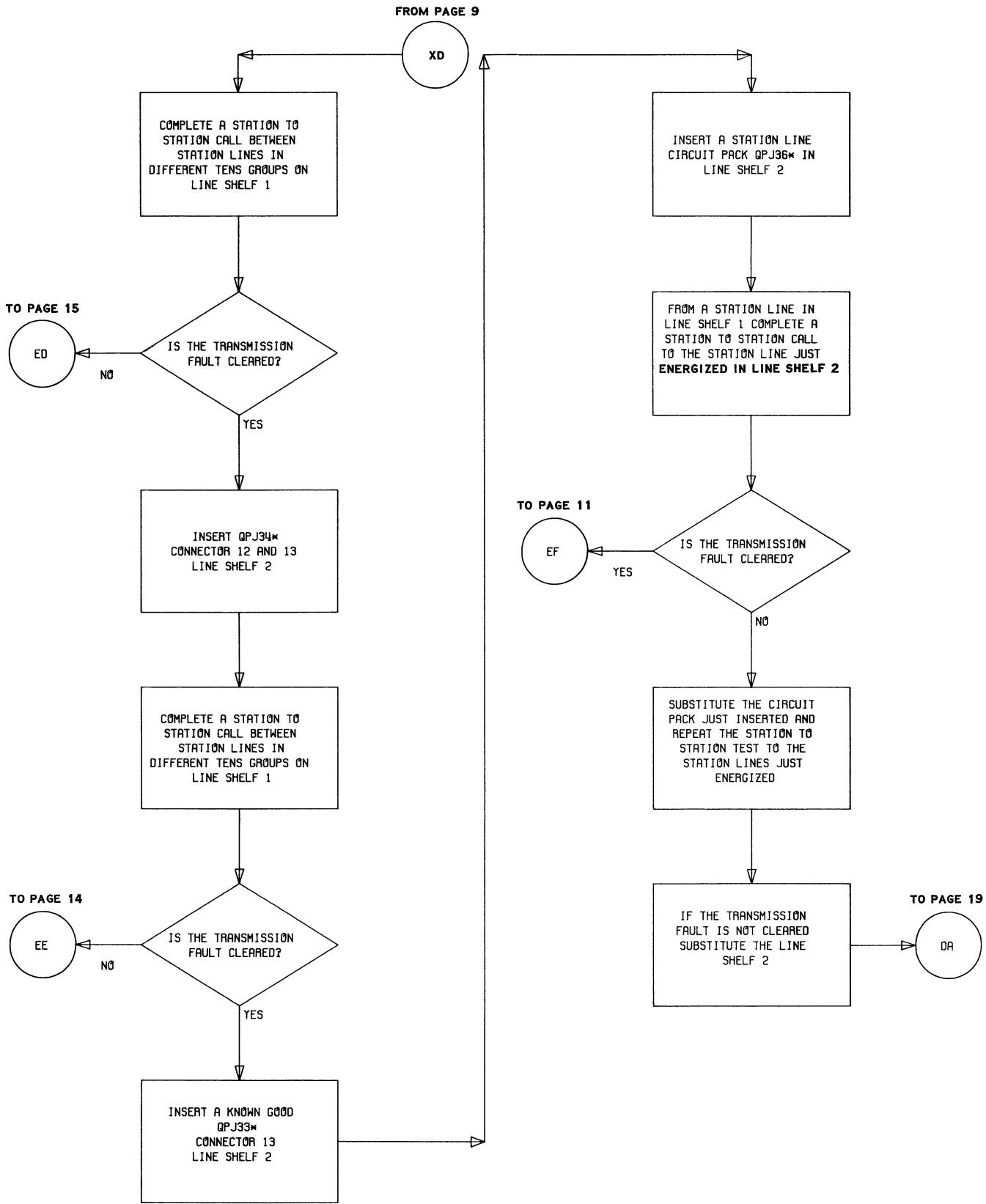
Flowchart 2 (Cont)



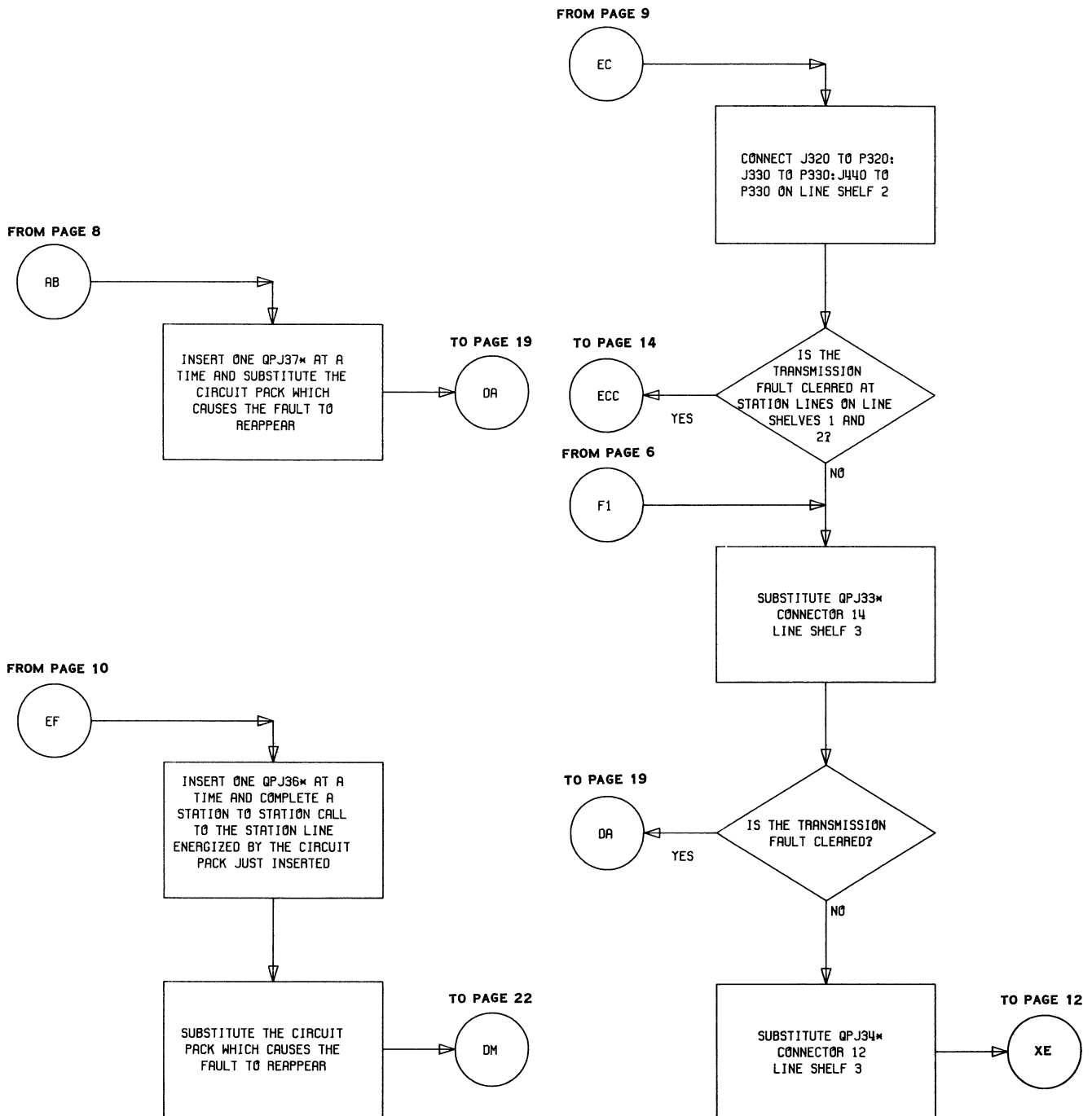
Flowchart 2 (Cont)



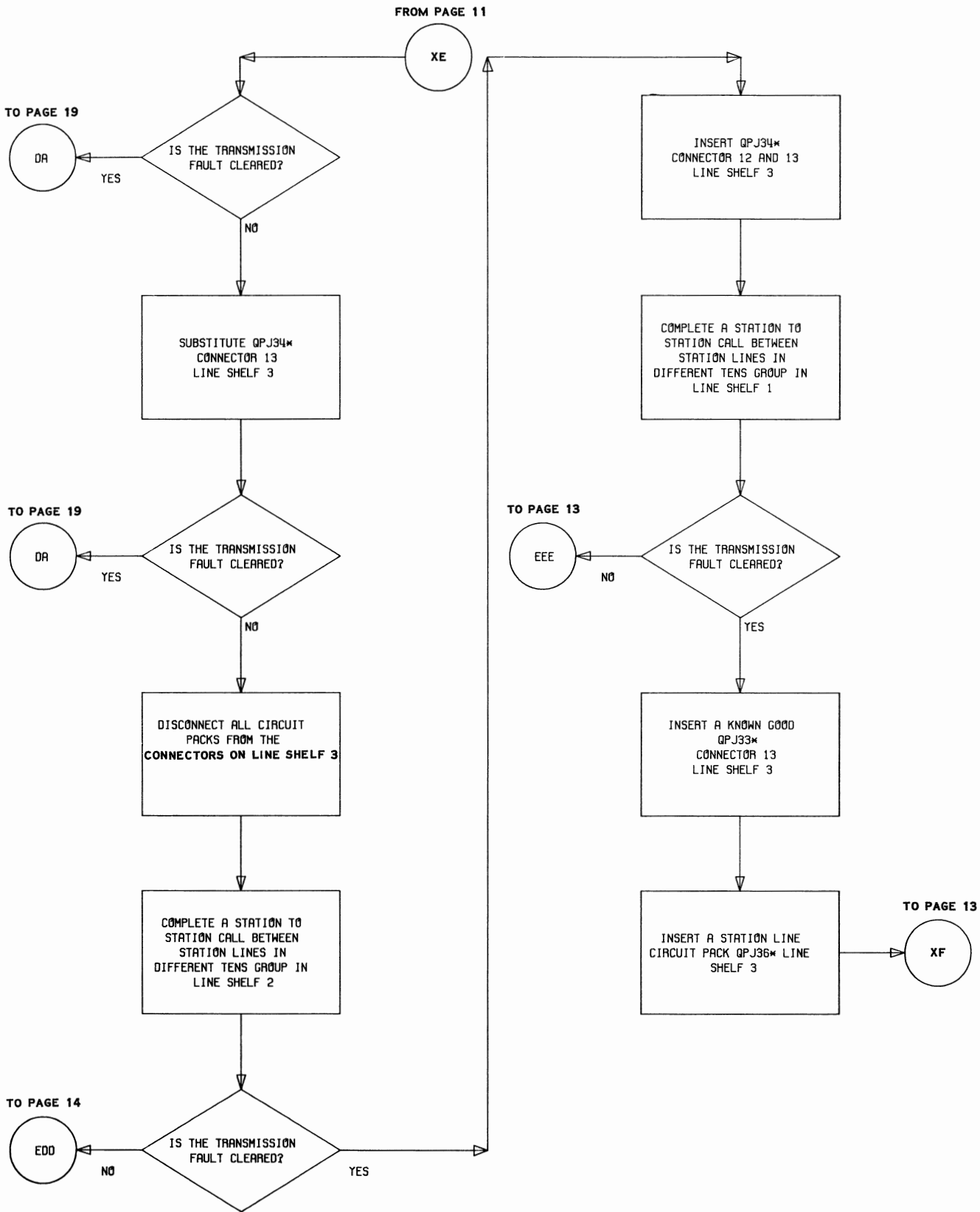
Flowchart 2 (Cont)



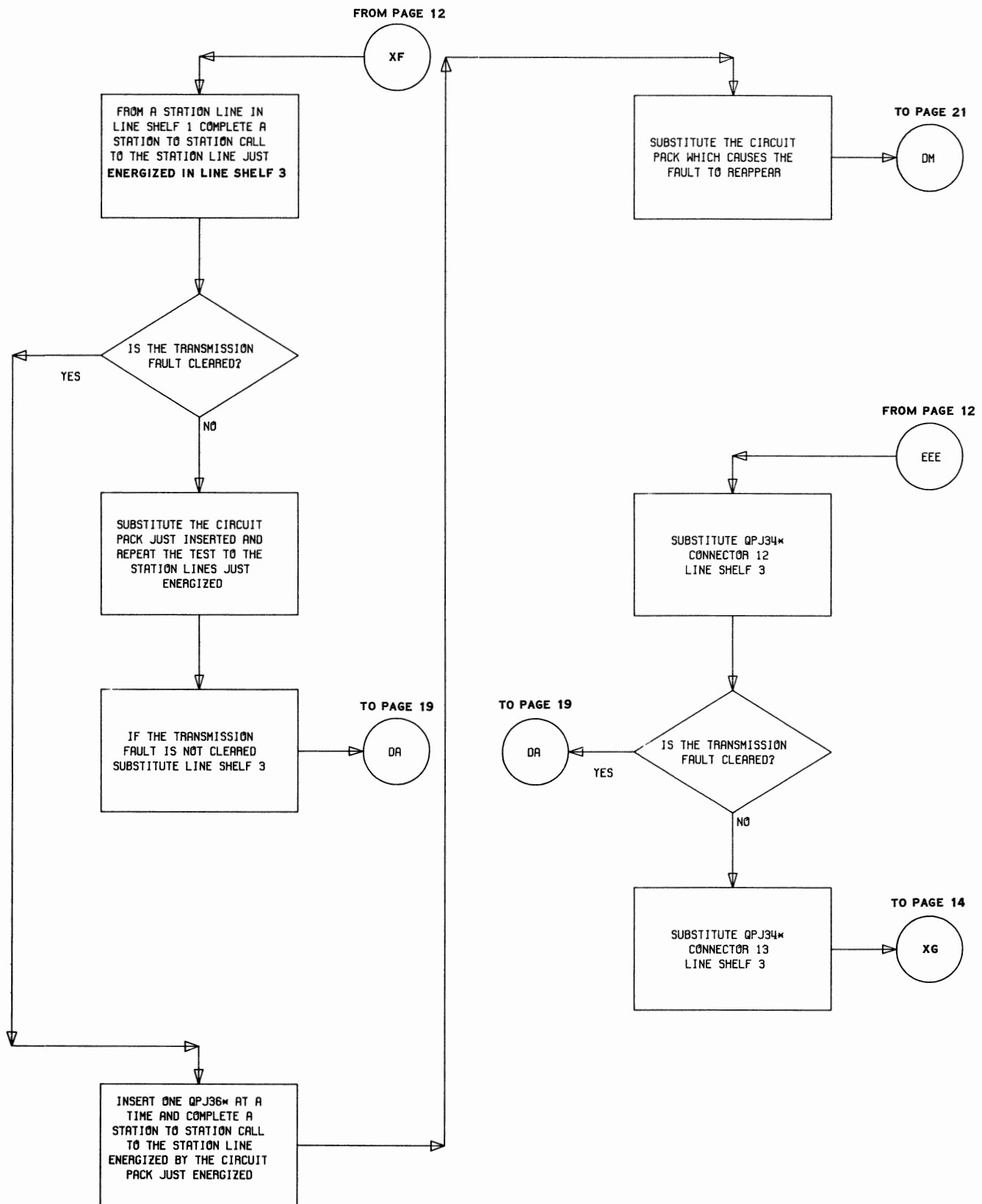
Flowchart 2 (Cont)



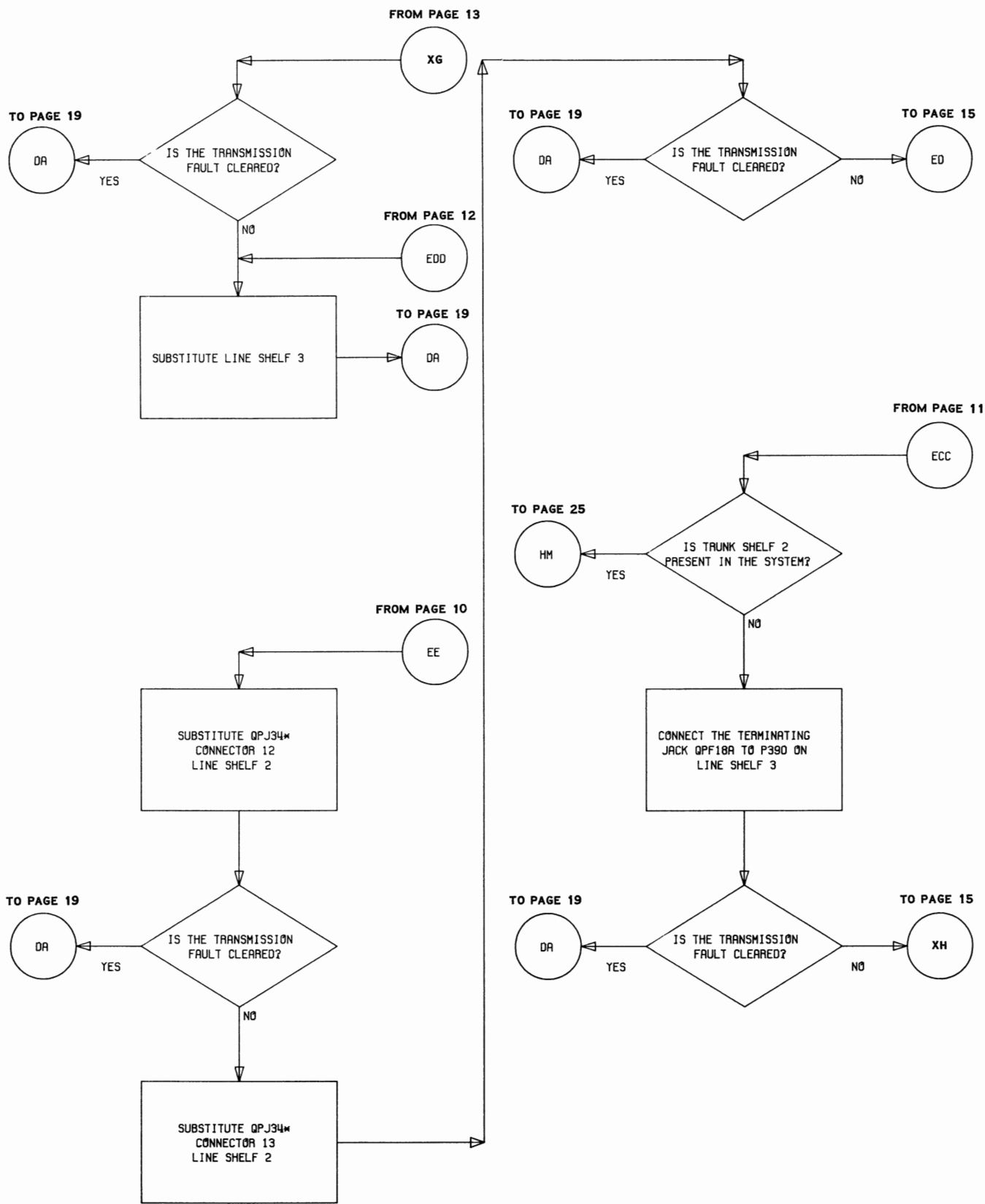
Flowchart 2 (Cont)



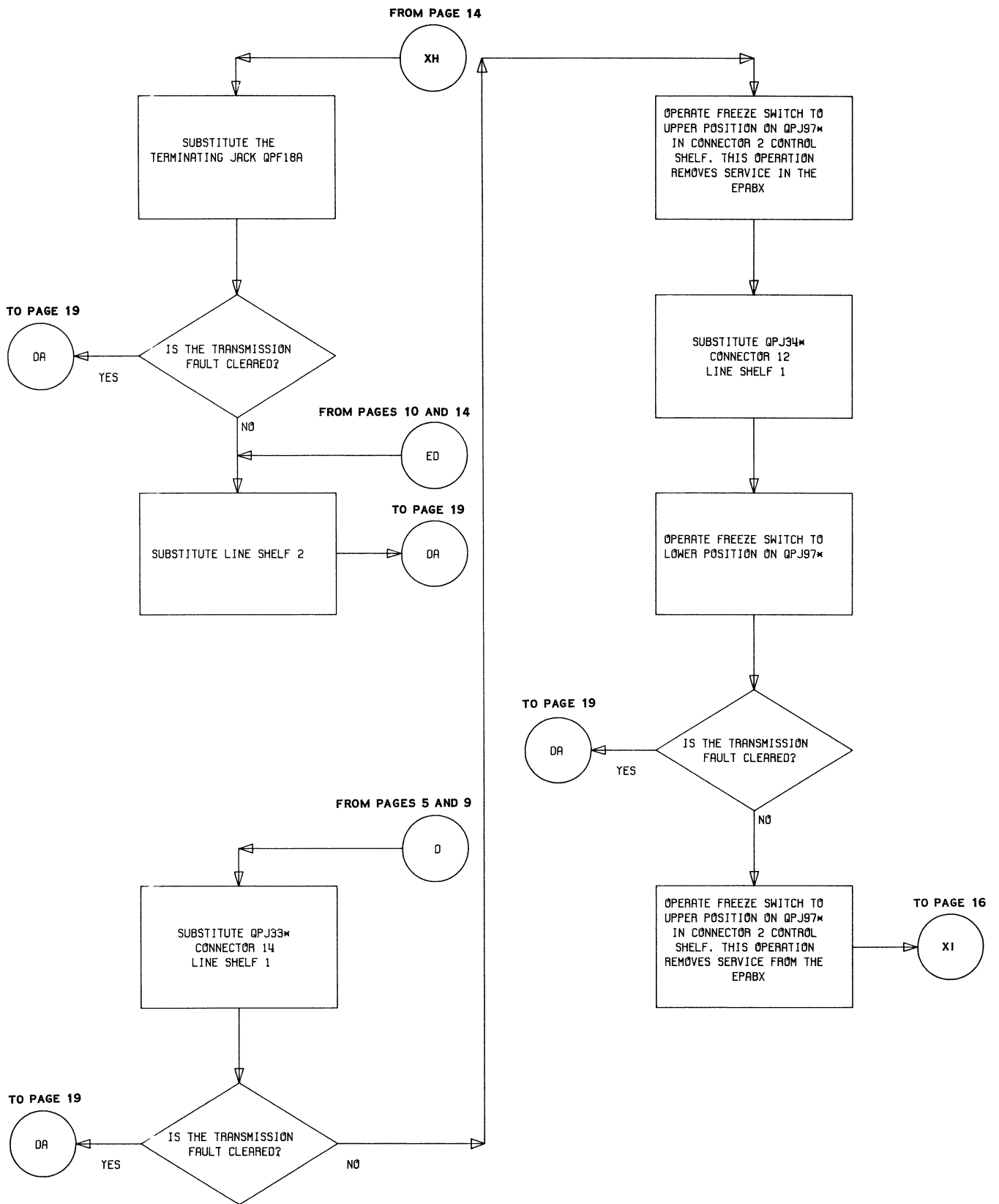
Flowchart 2 (Cont)



Flowchart 2 (Cont)

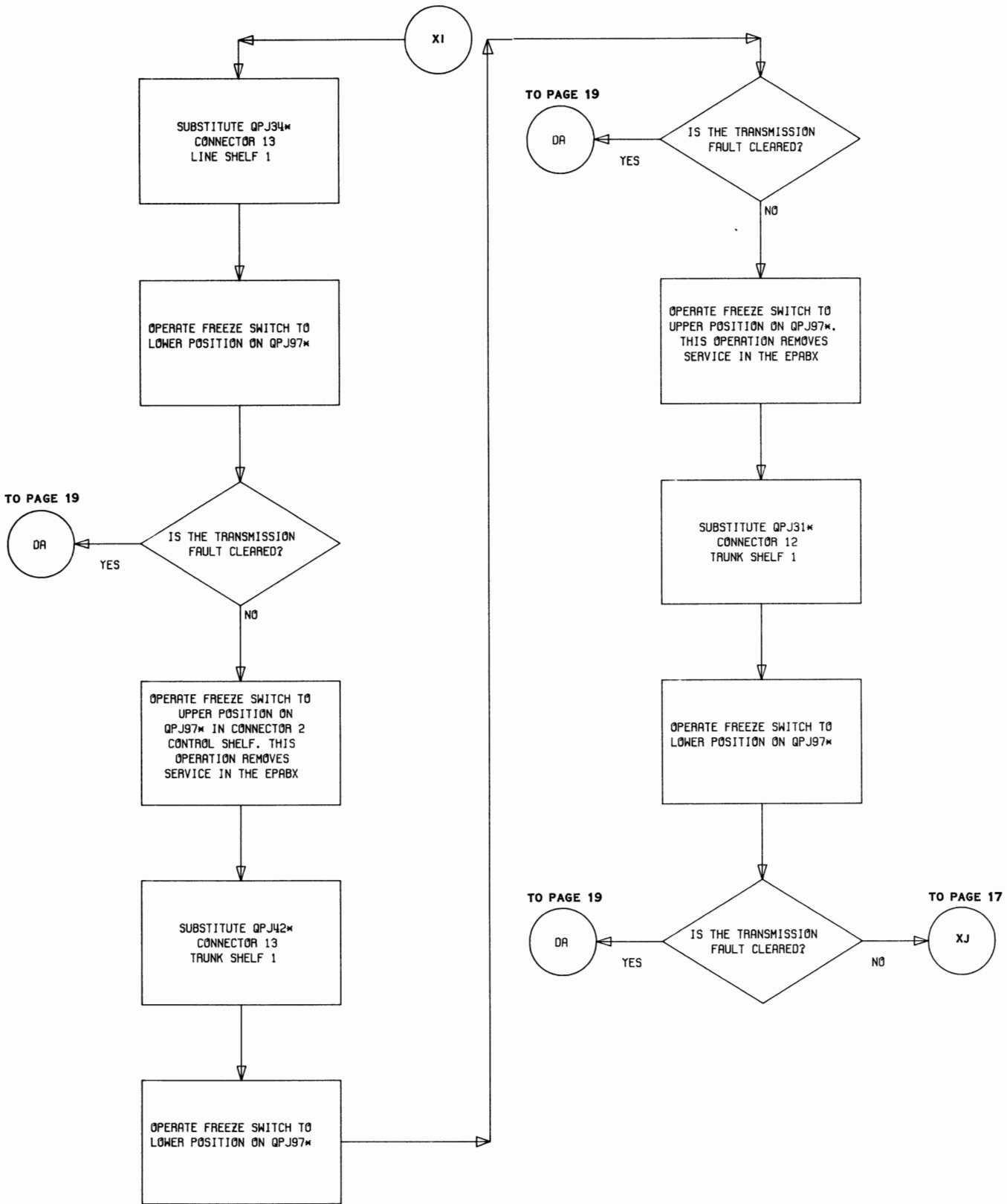


Flowchart 2 (Cont)

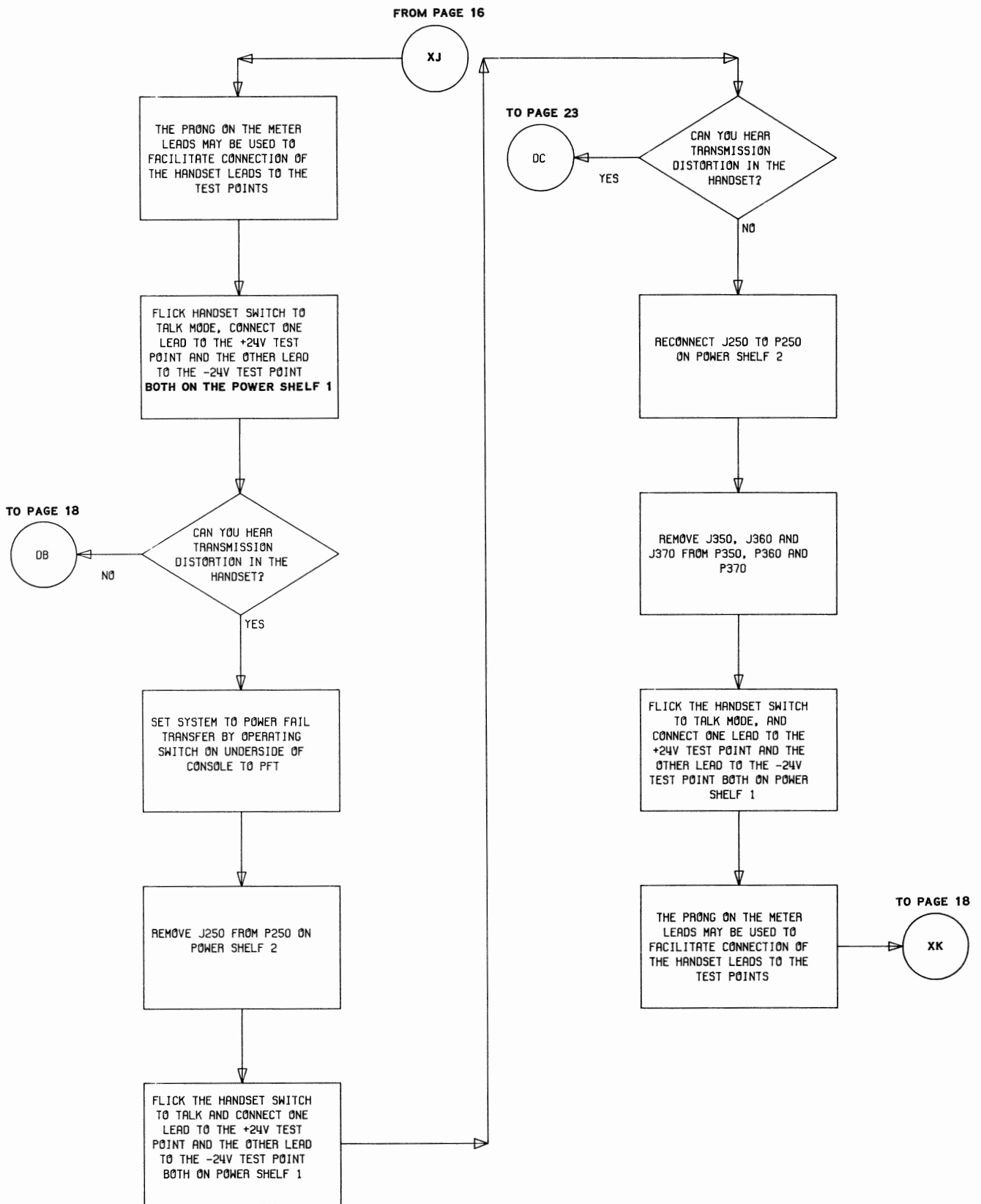


Flowchart 2 (Cont)

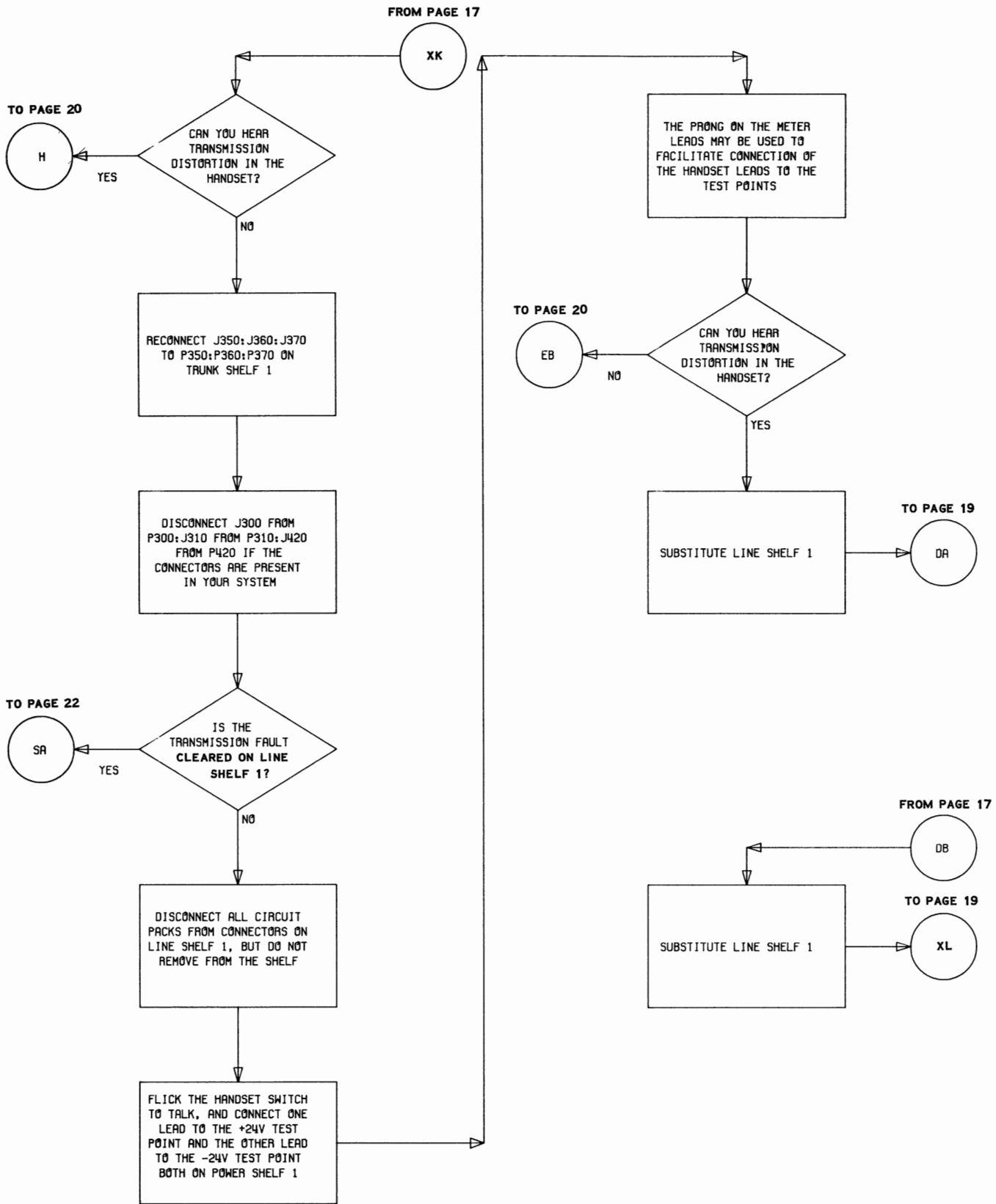
FROM PAGE 15



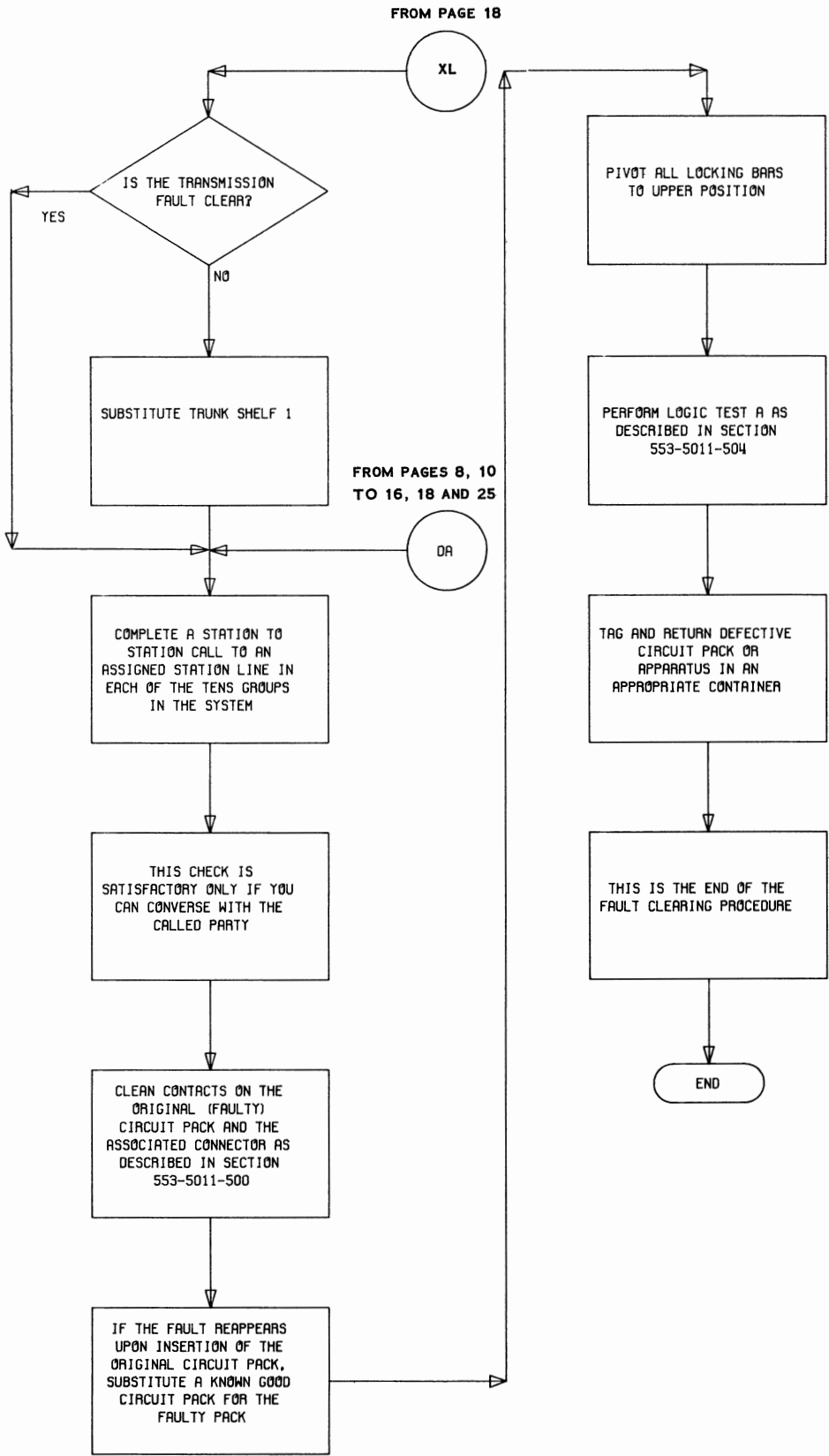
Flowchart 2 (Cont)



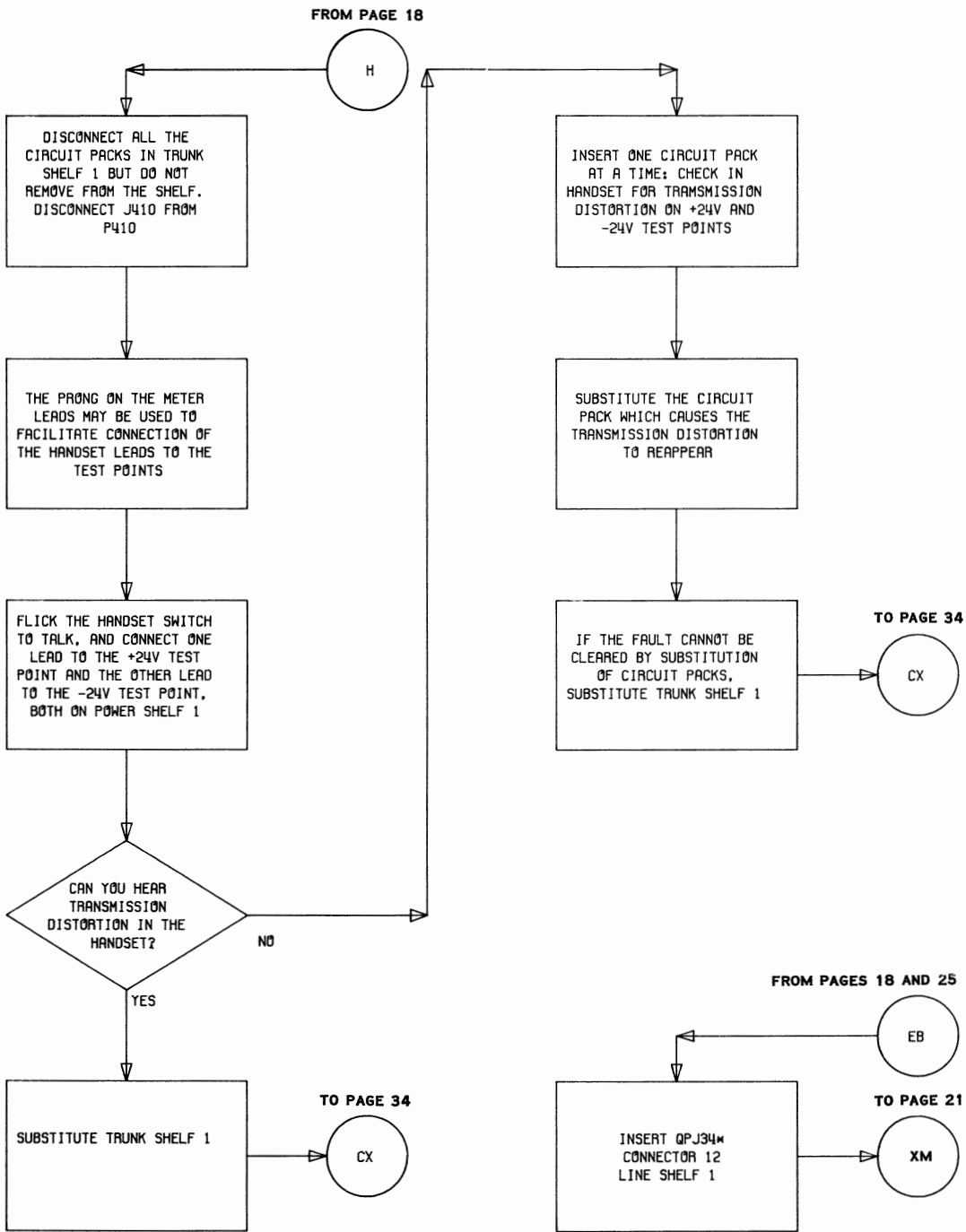
Flowchart 2 (Cont)



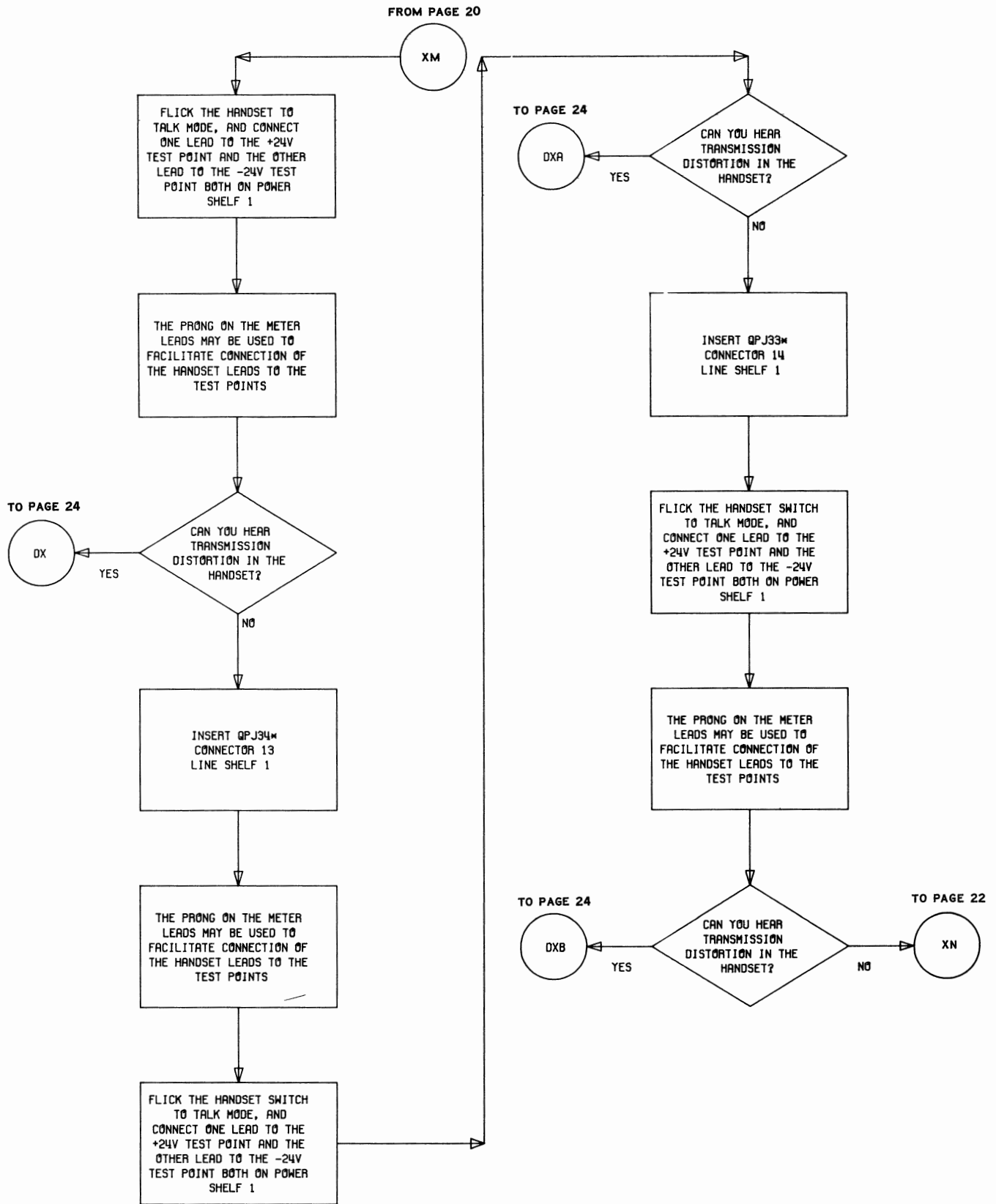
Flowchart 2 (Cont)



Flowchart 2 (Cont)

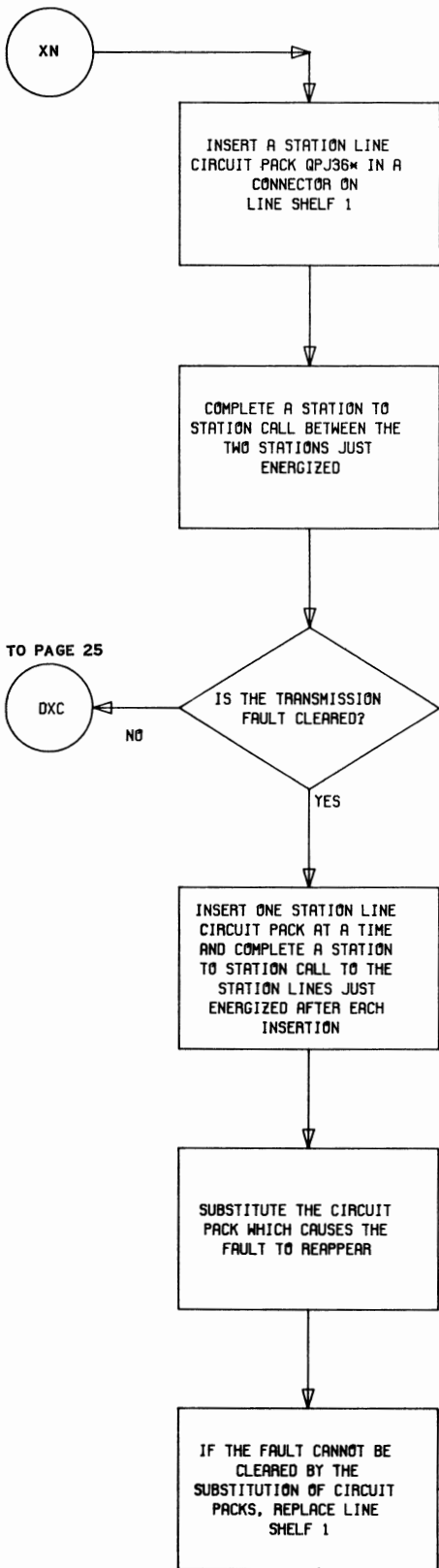


Flowchart 2 (Cont)



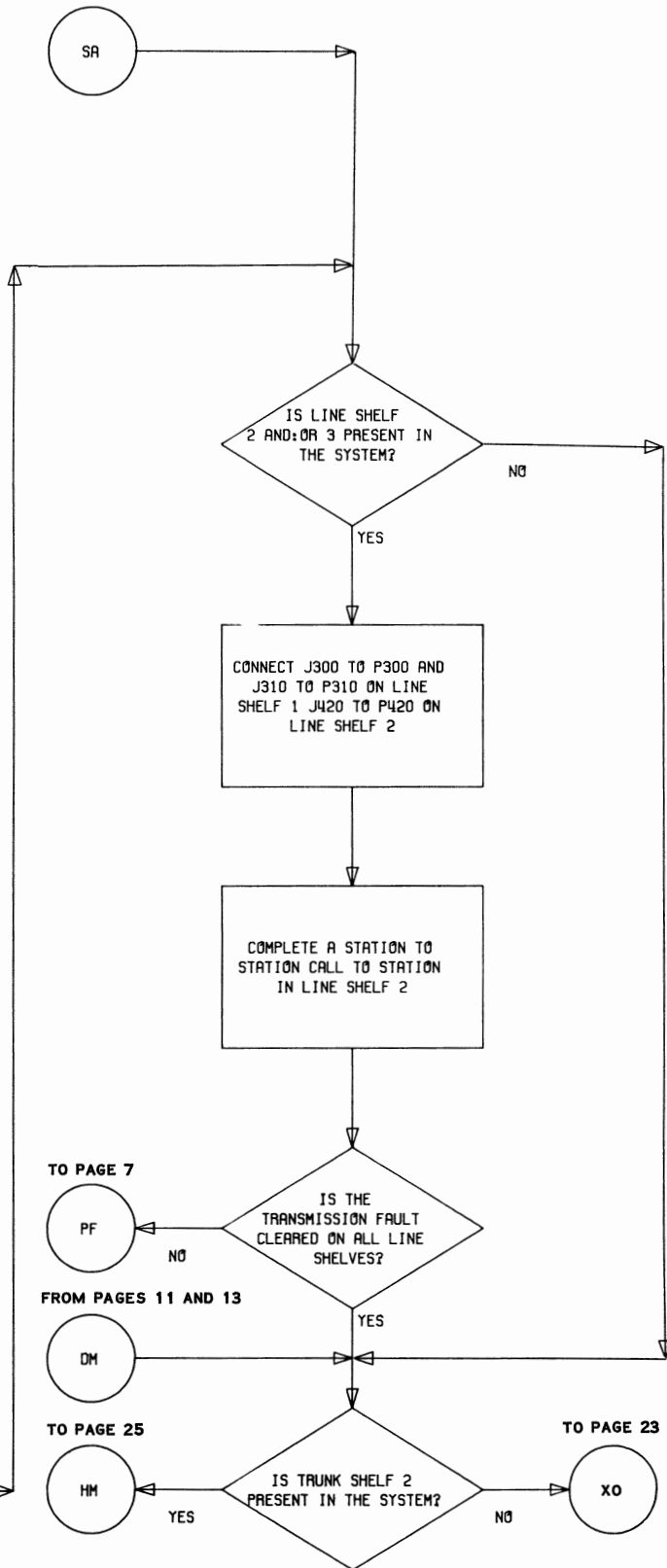
Flowchart 2 (Cont)

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TO PAGE 25

FROM PAGE 18



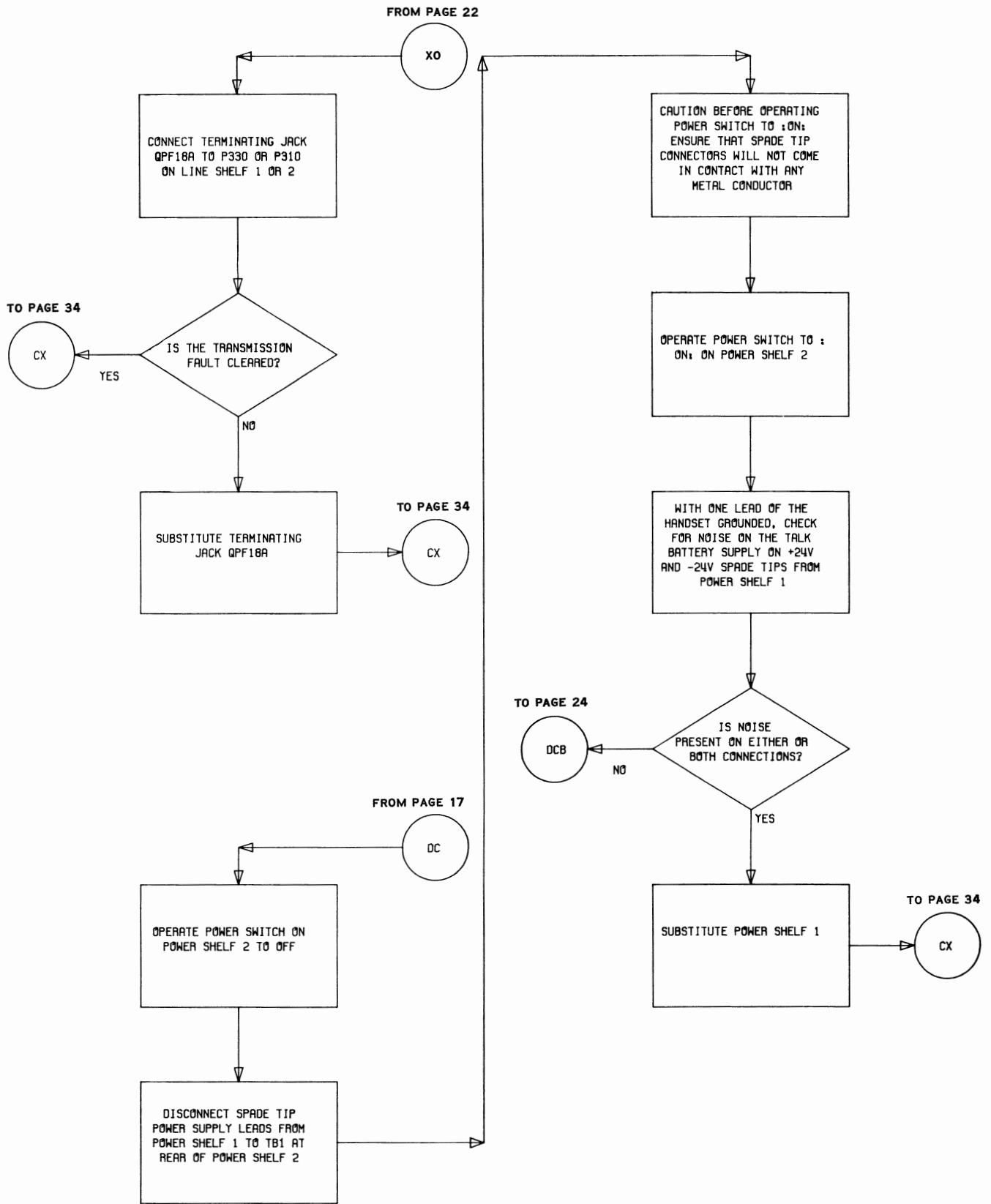
TO PAGE 7

FROM PAGES 11 AND 13

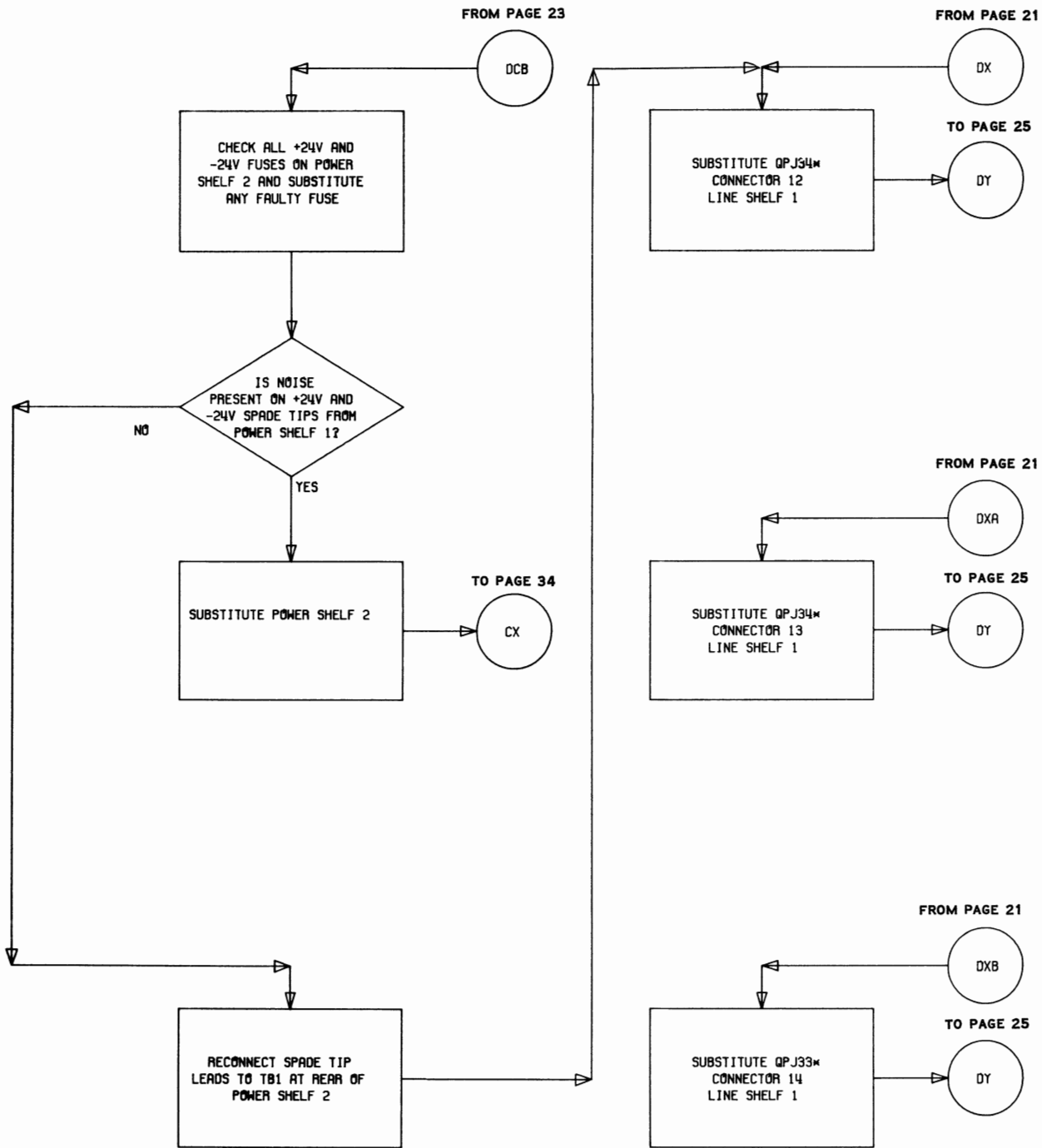
TO PAGE 25

TO PAGE 23

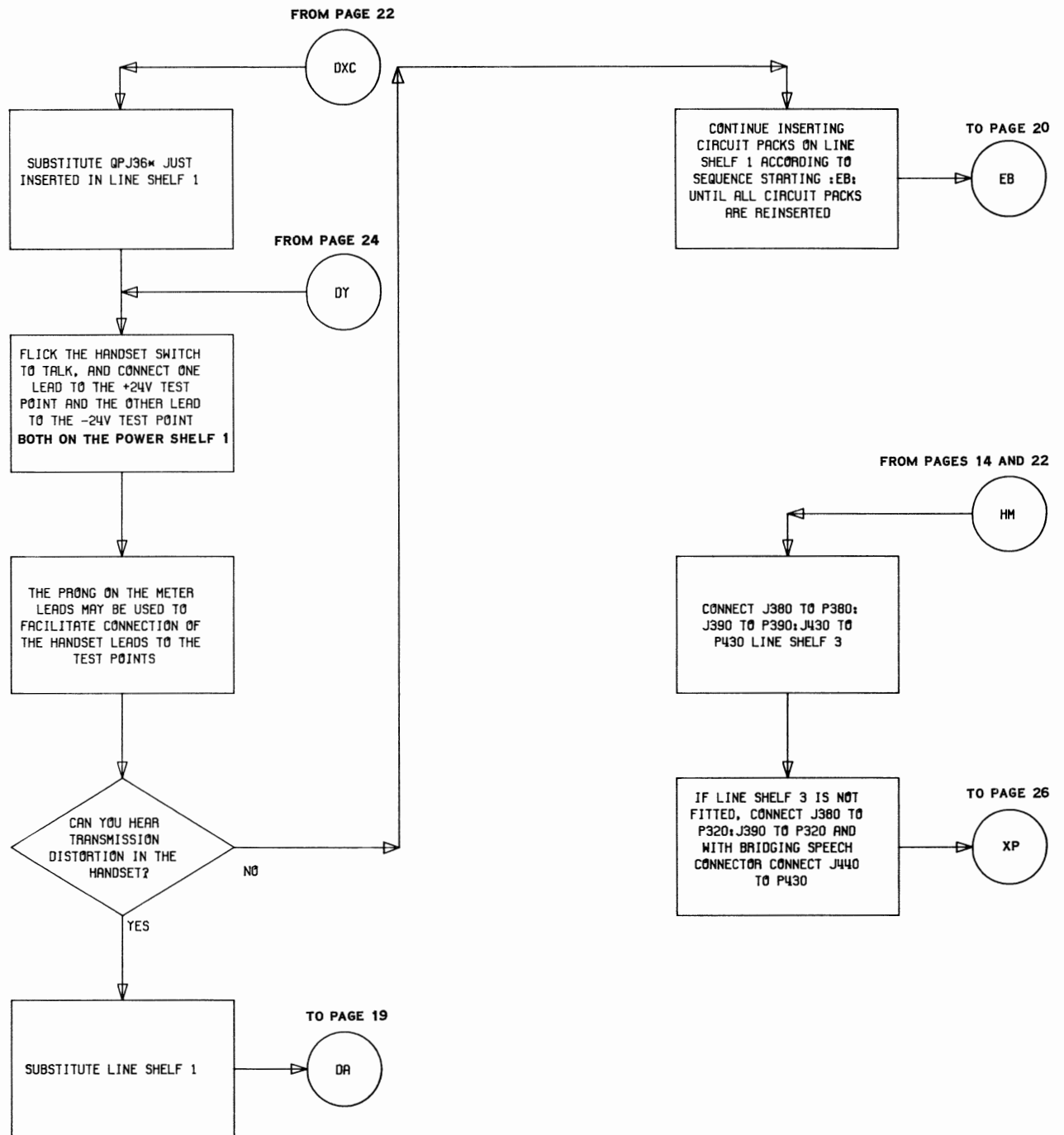
Flowchart 2 (Cont)



Flowchart 2 (Cont)

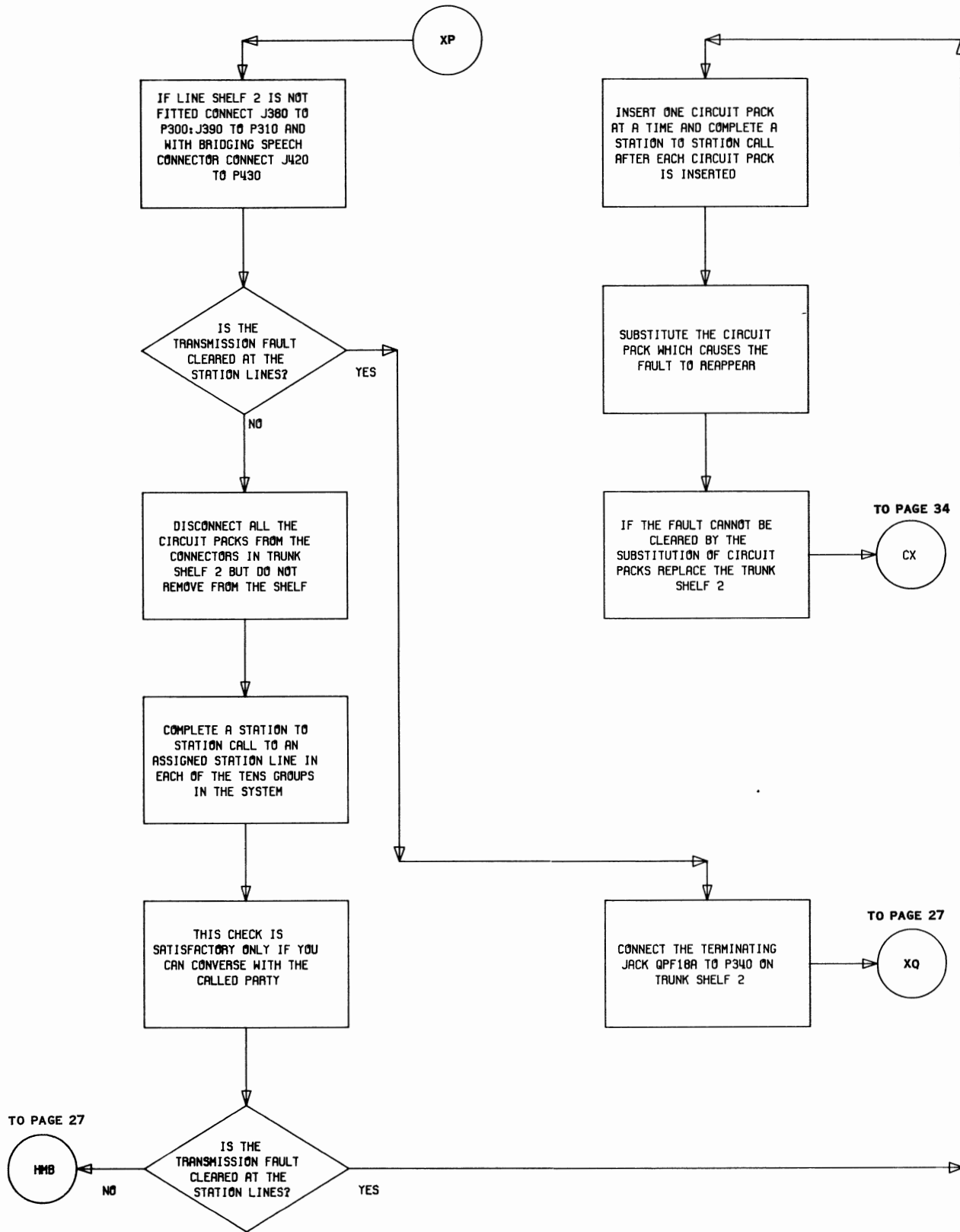


Flowchart 2 (Cont)

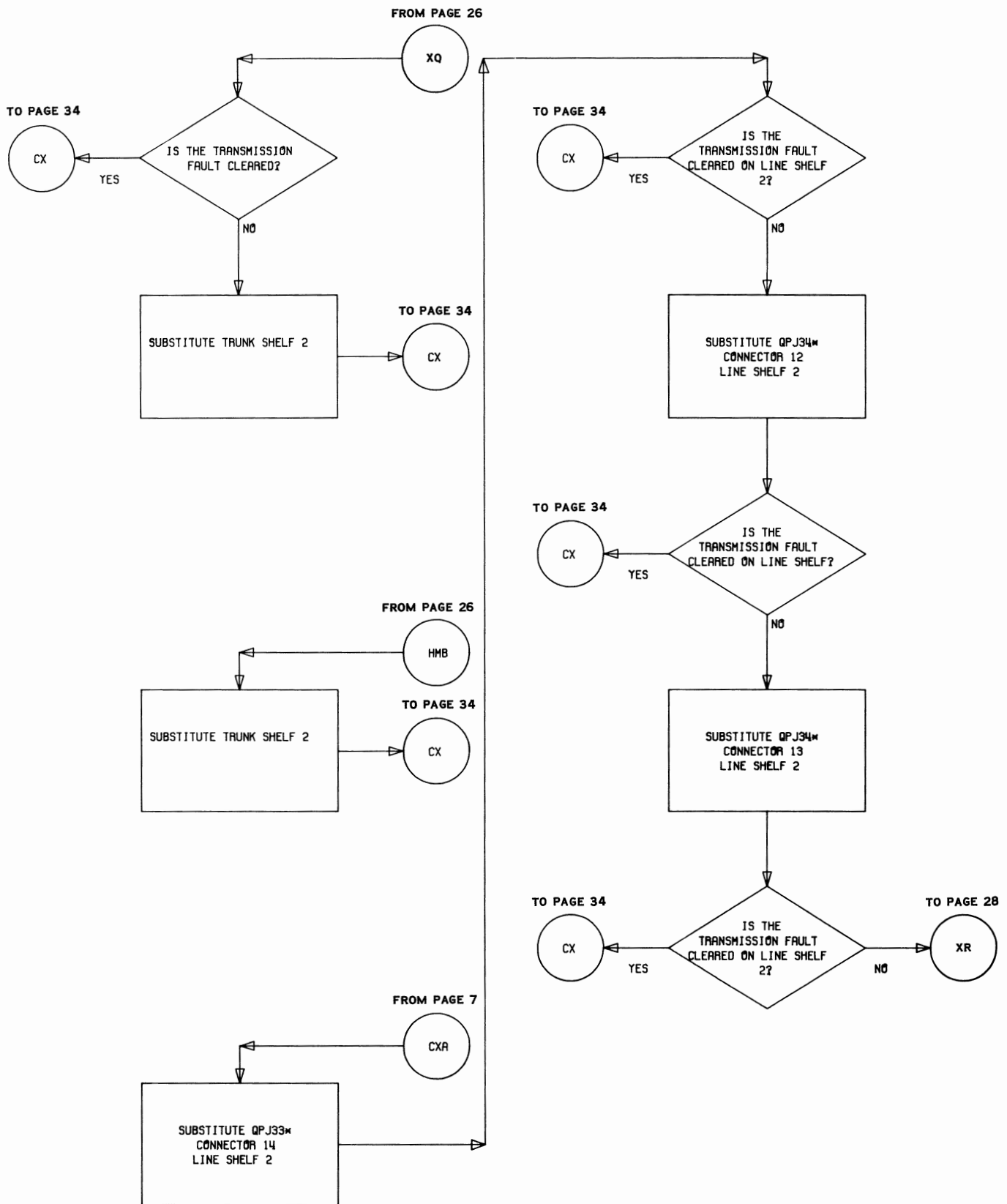


Flowchart 2 (Cont)

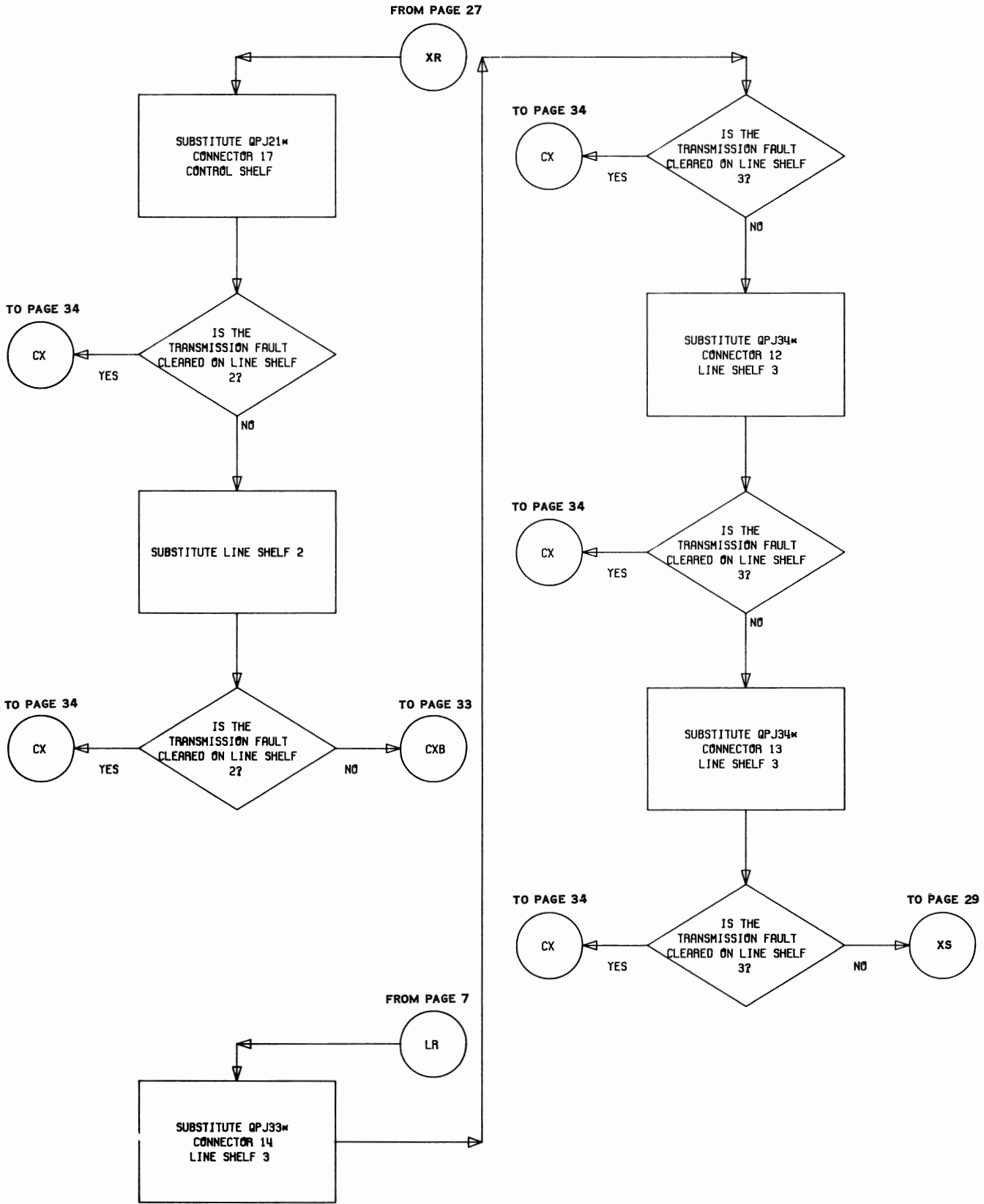
FROM PAGE 25



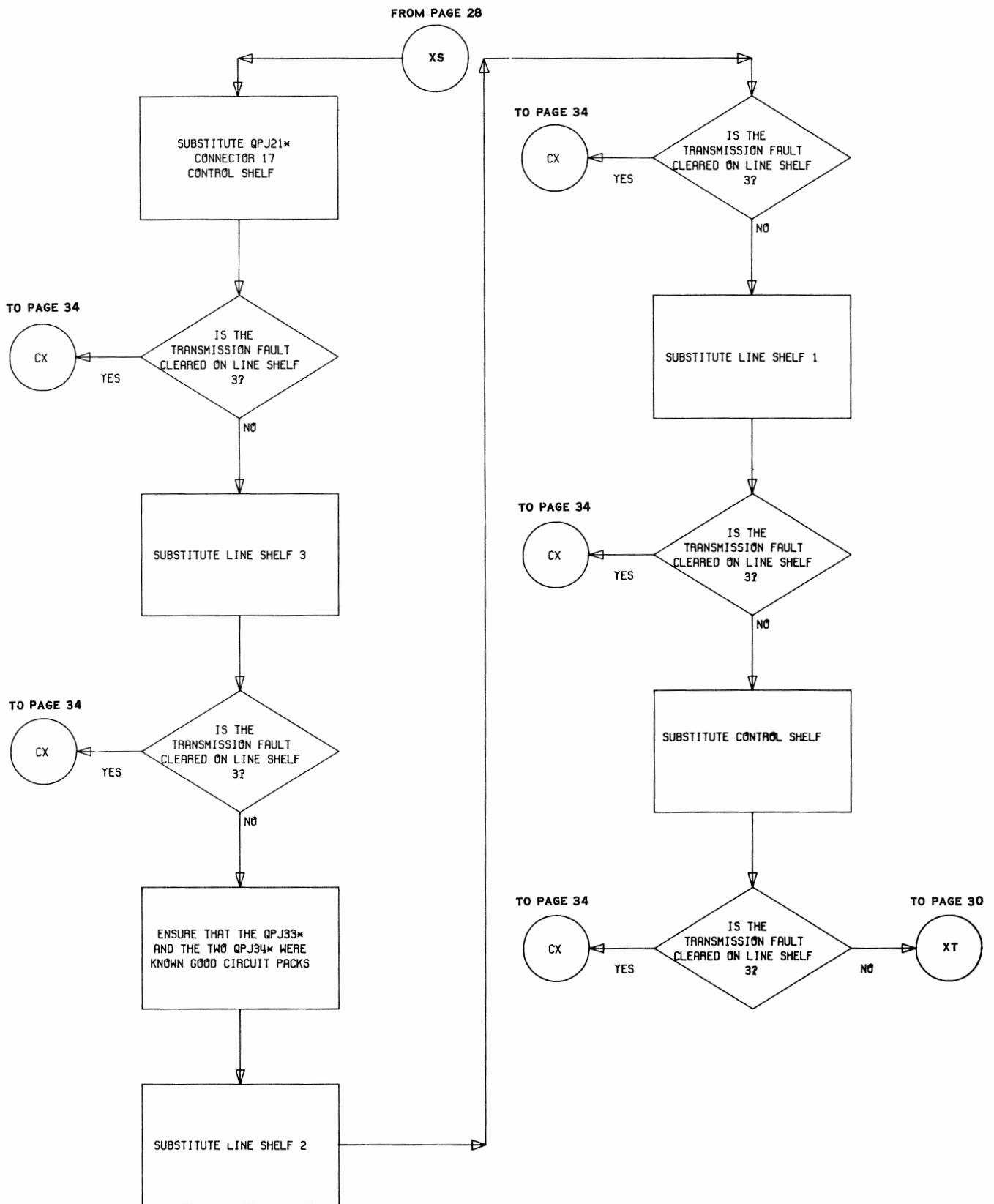
Flowchart 2 (Cont)



Flowchart 2 (Cont)

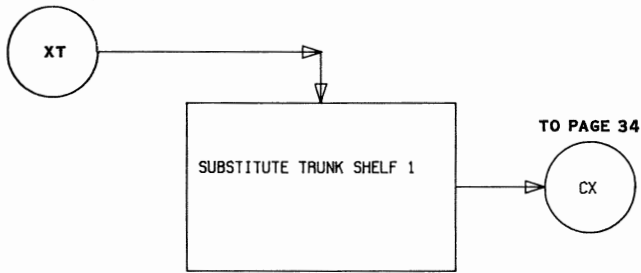


Flowchart 2 (Cont)

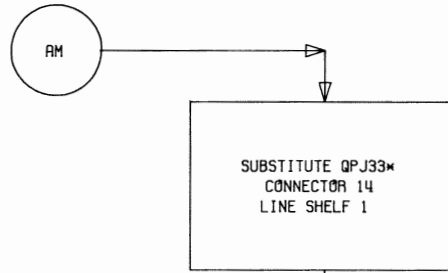


Flowchart 2 (Cont)

FROM PAGE 29



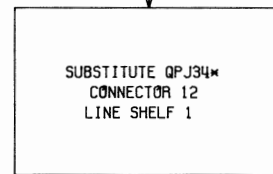
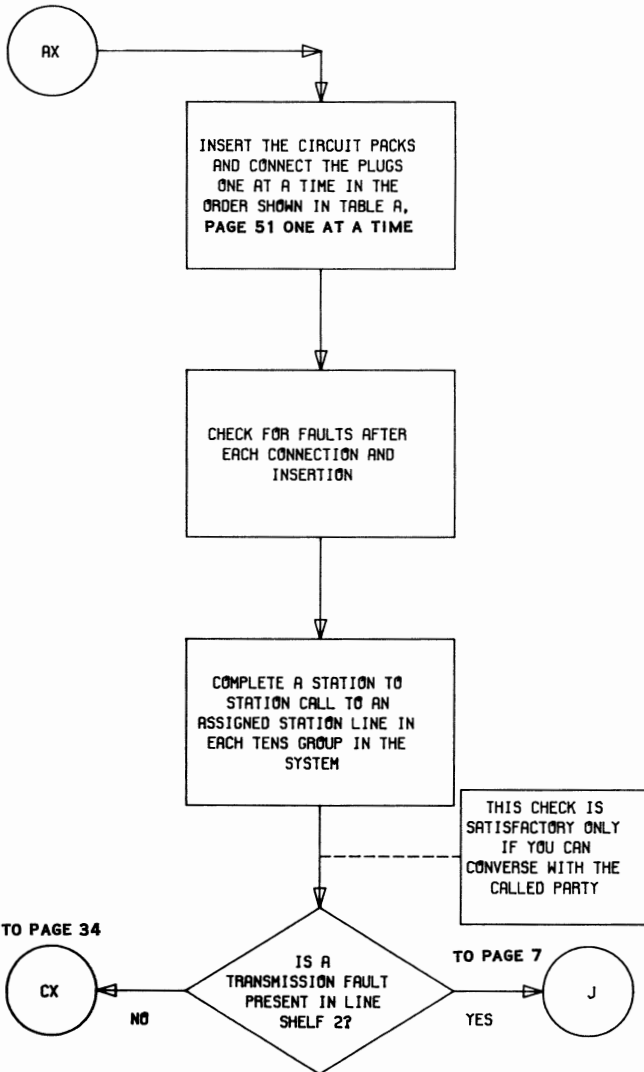
FROM PAGE 7



TO PAGE 34



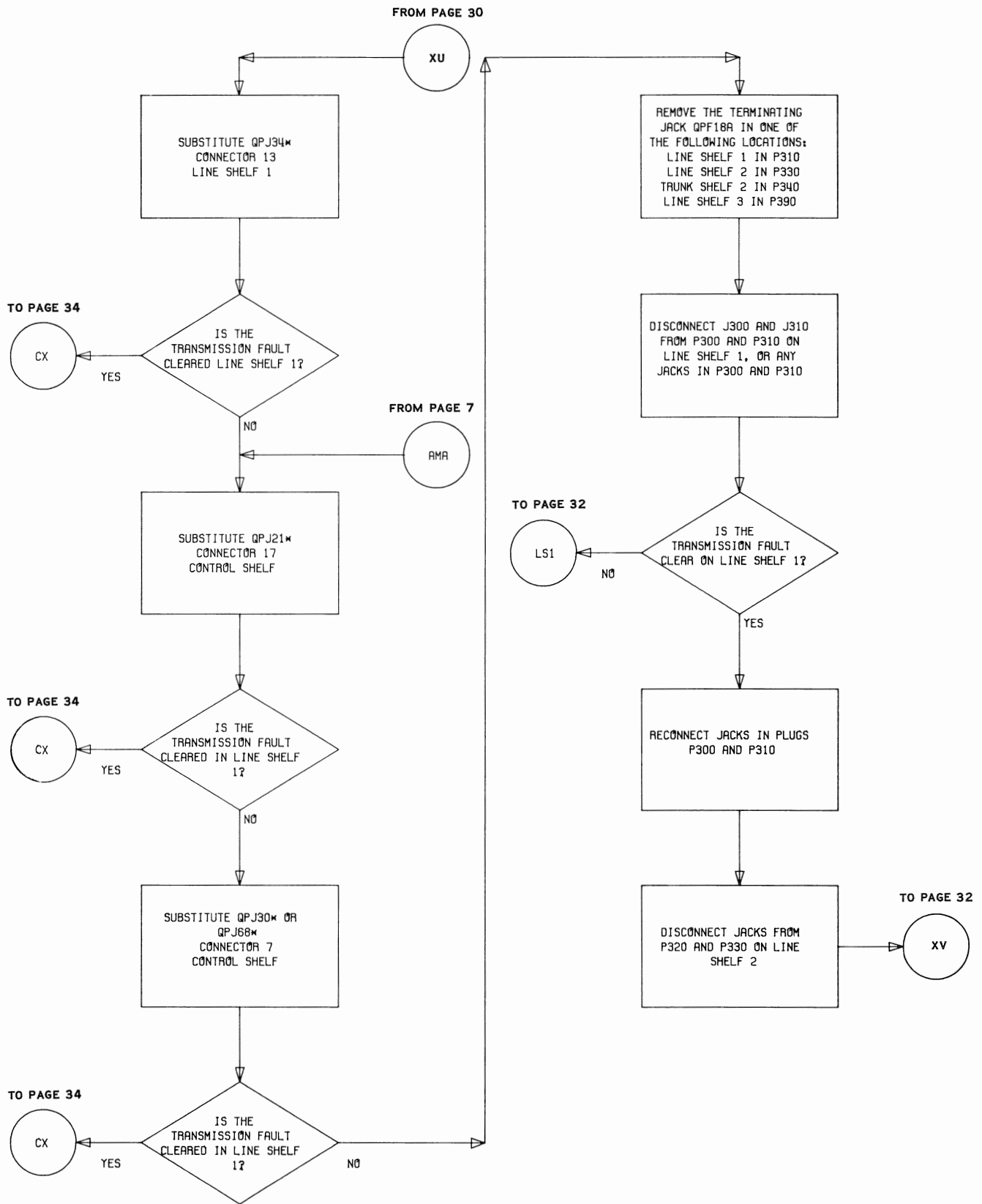
FROM PAGES 32, 33 AND 34



TO PAGE 34



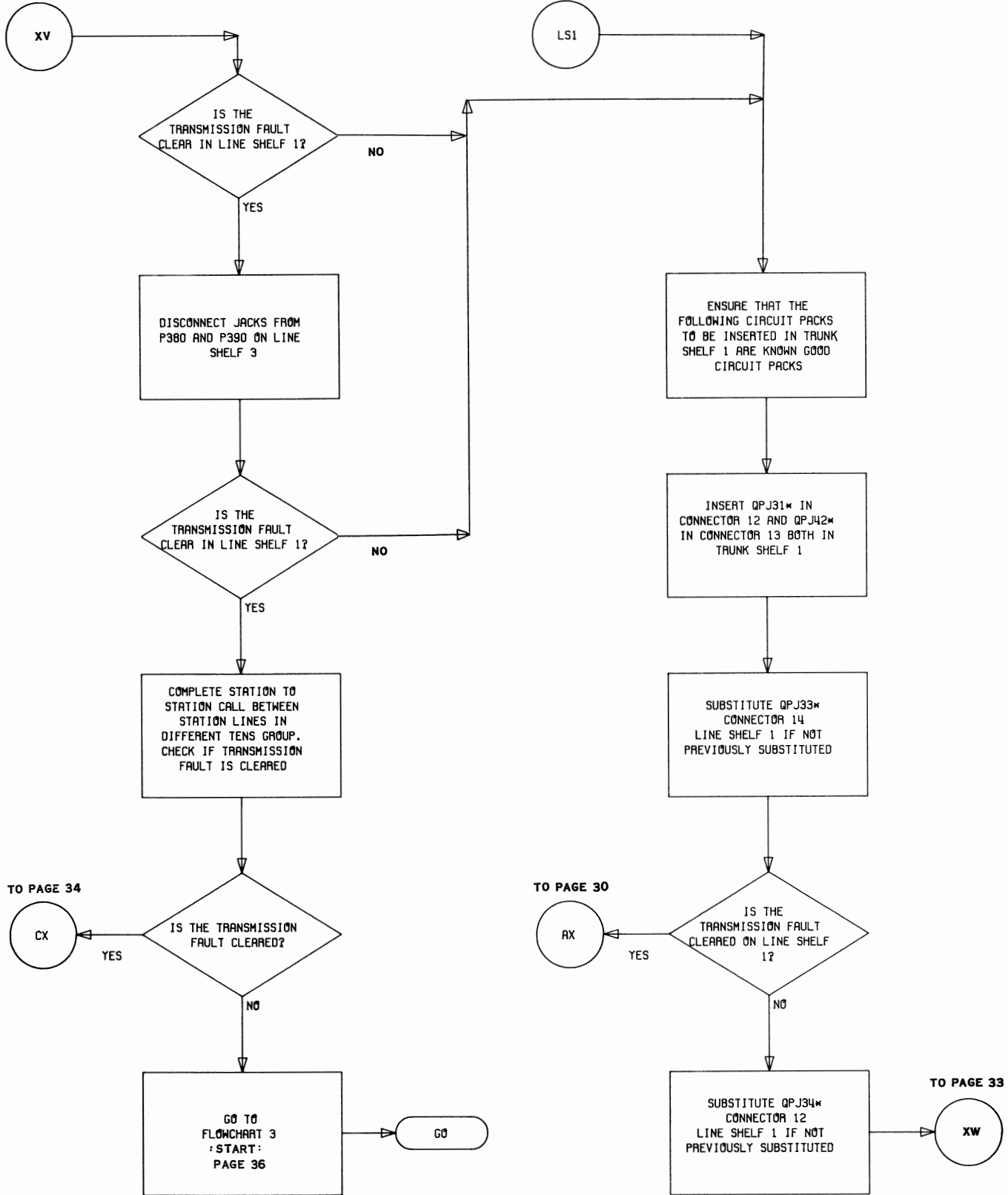
Flowchart 2 (Cont)



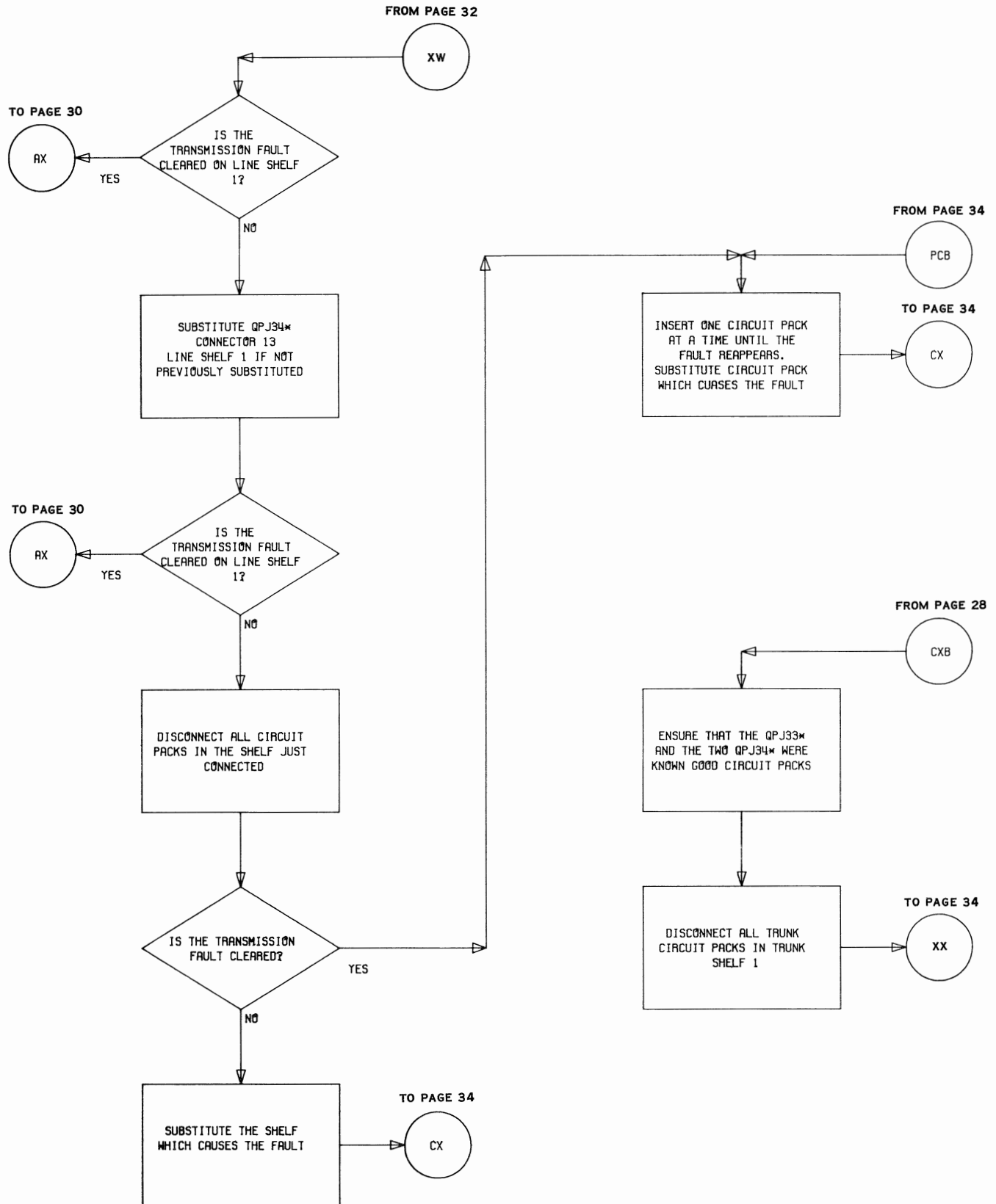
Flowchart 2 (Cont)

FROM PAGE 31

FROM PAGE 31

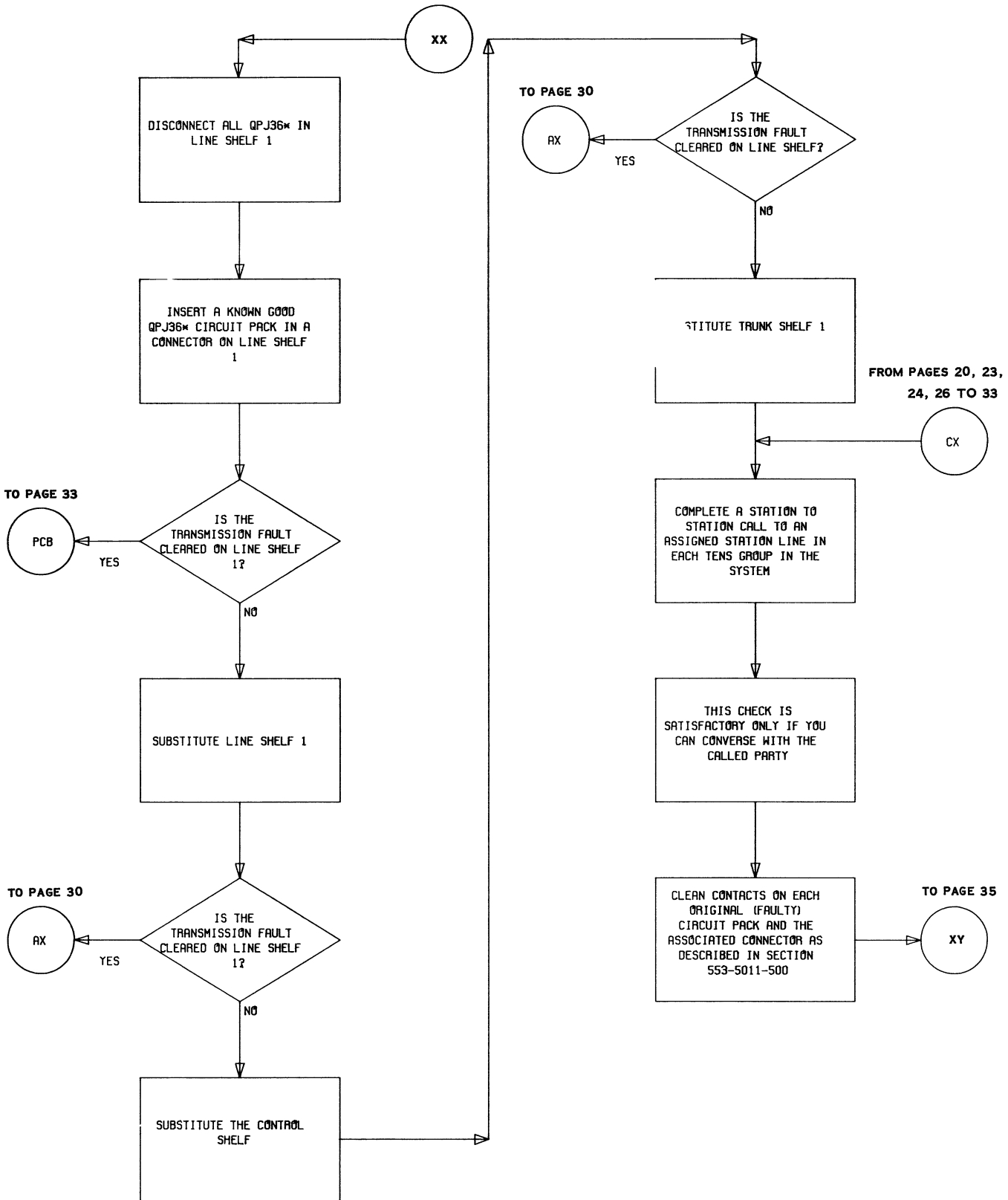


Flowchart 2 (Cont)



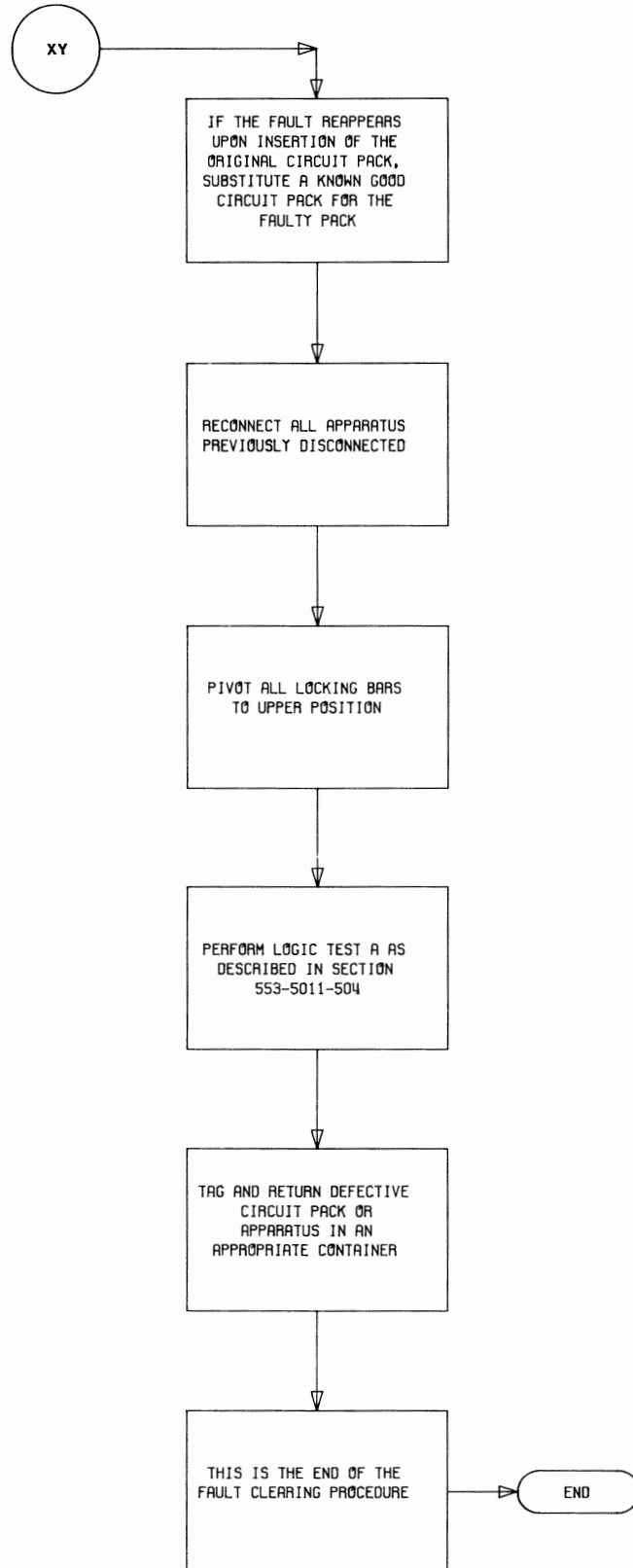
Flowchart 2 (Cont)

FROM PAGE 33

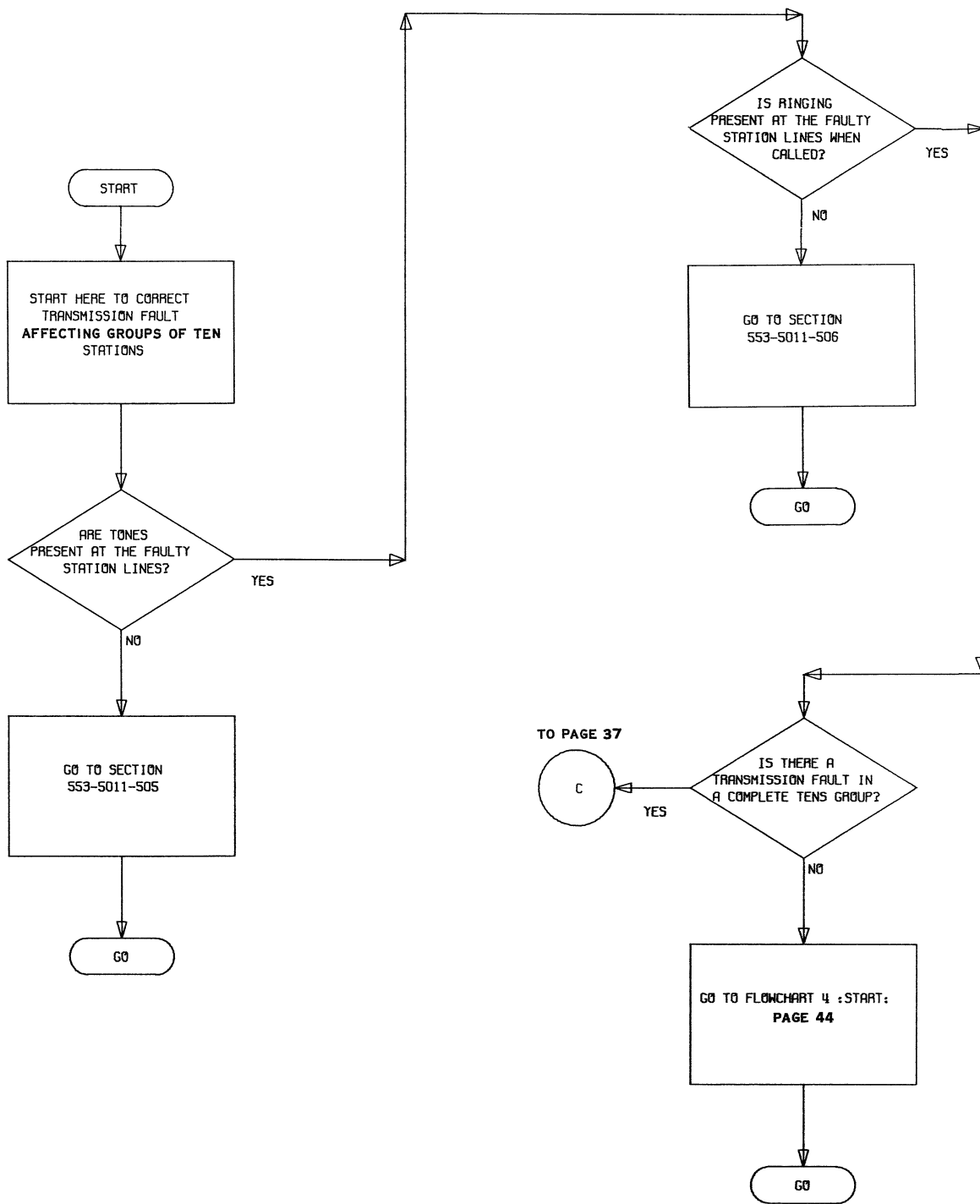


Flowchart 2 (Cont)

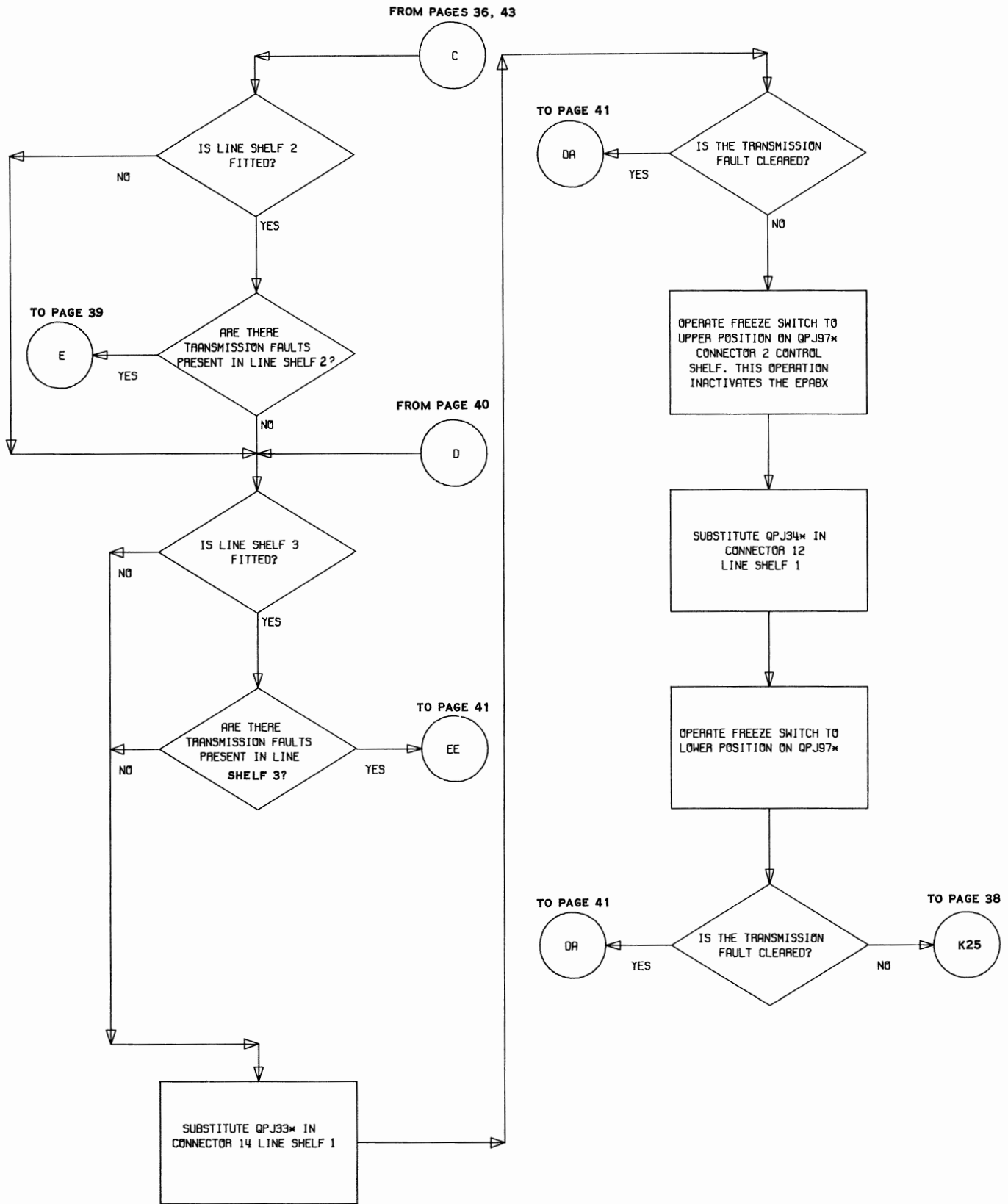
FROM PAGE 34



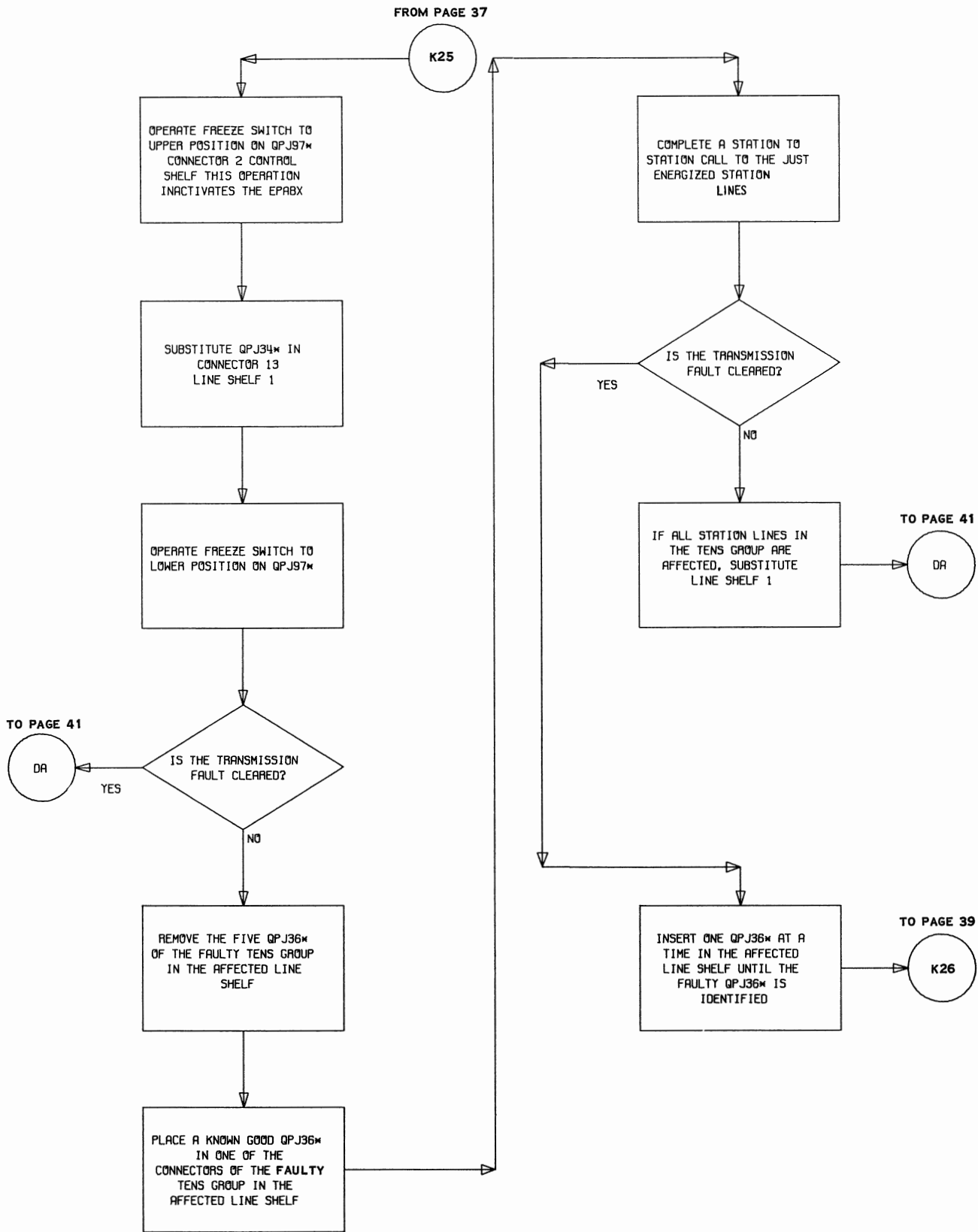
Flowchart 2 (Cont)



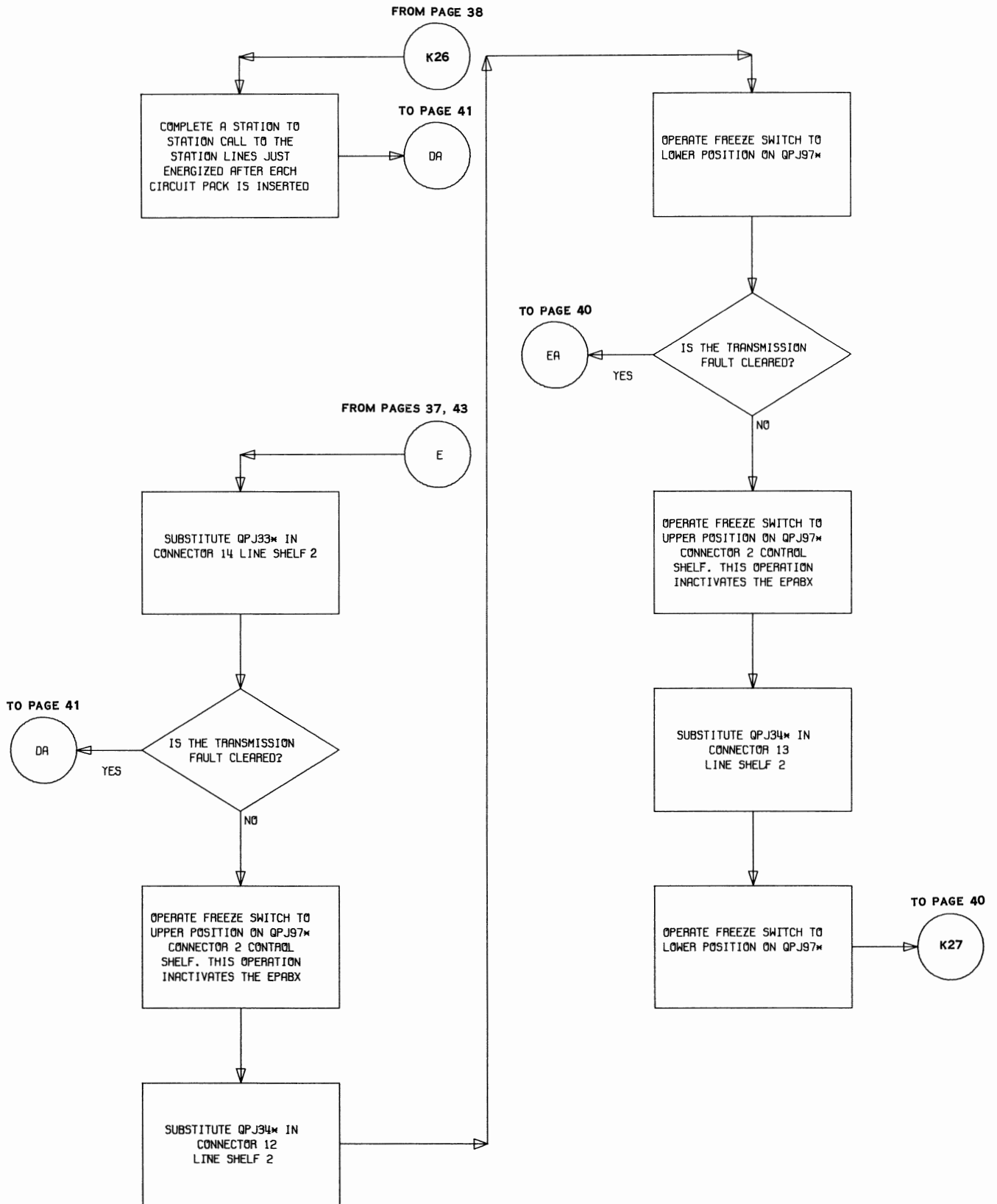
Flowchart 3 – Partial System Transmission Failure



Flowchart 3 (Cont)

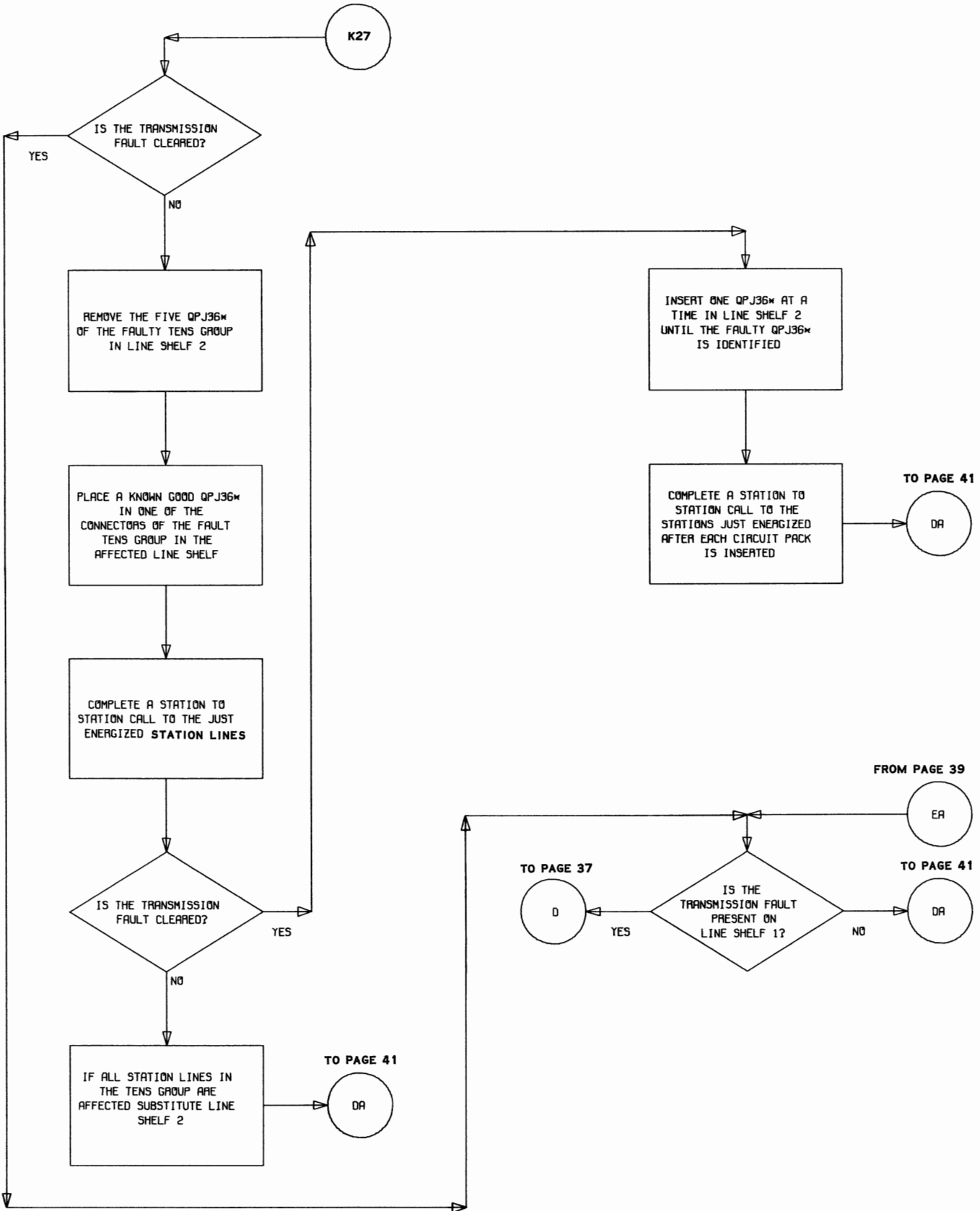


Flowchart 3 (Cont)



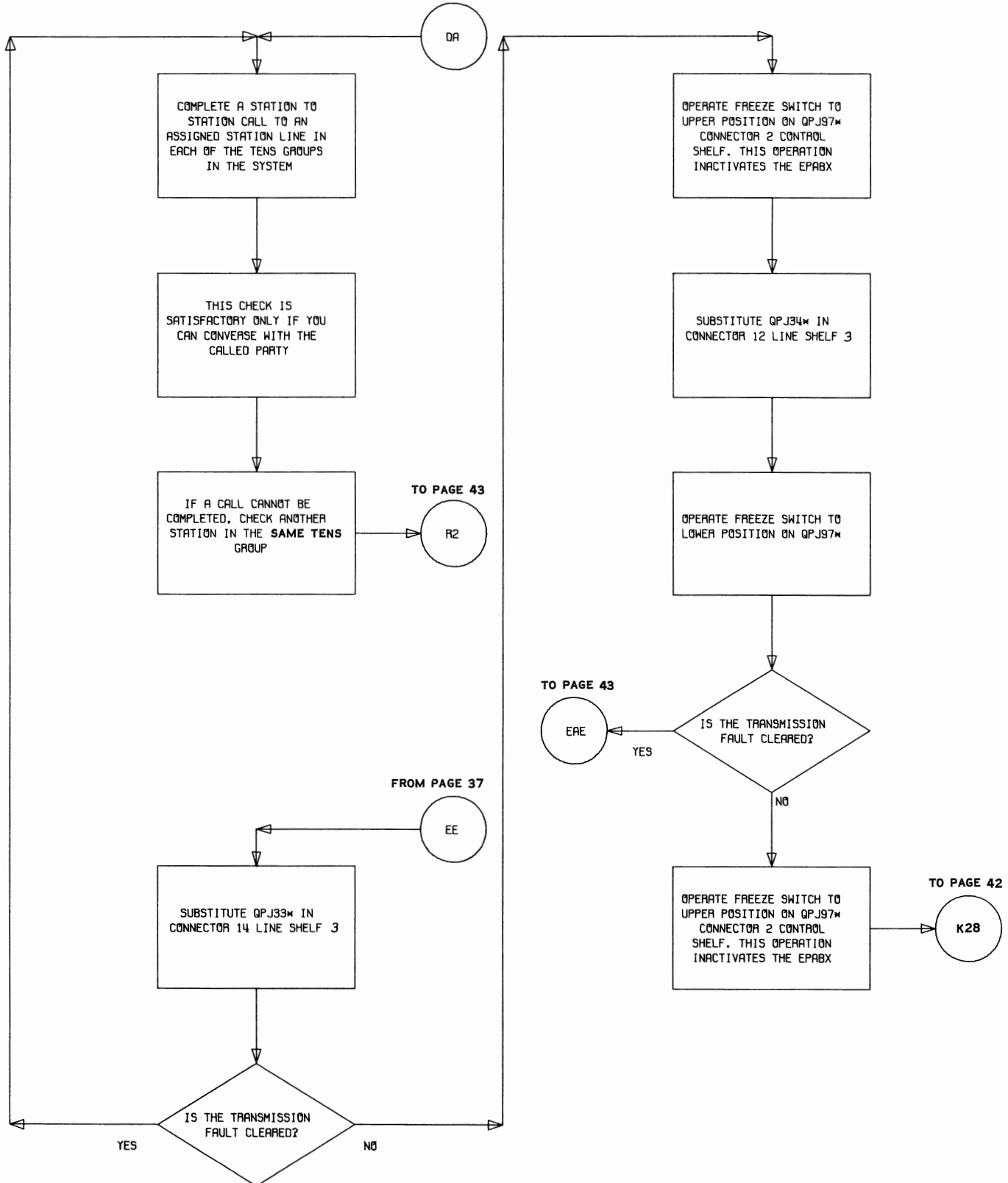
Flowchart 3 (Cont)

FROM PAGE 39

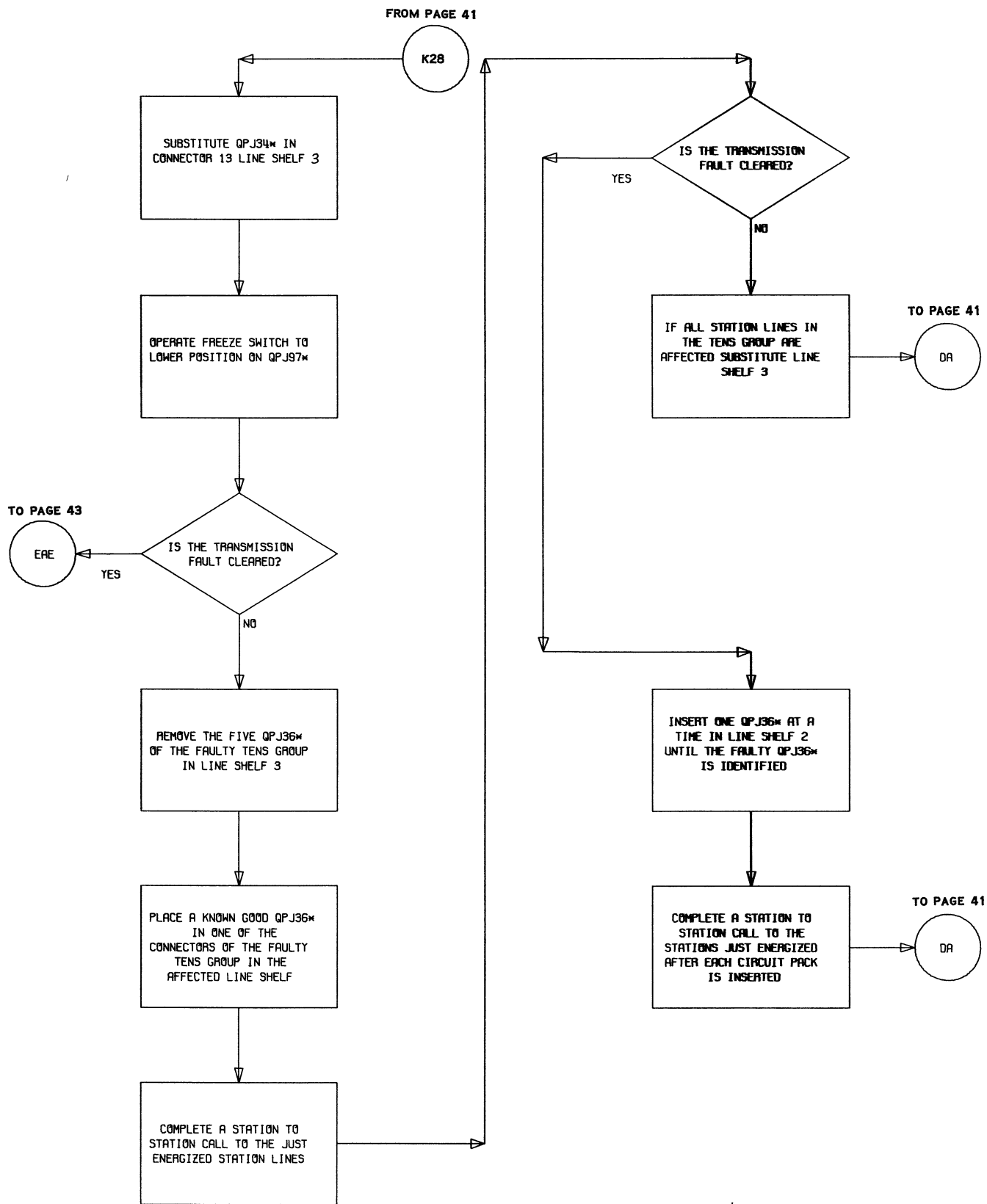


Flowchart 3 (Cont)

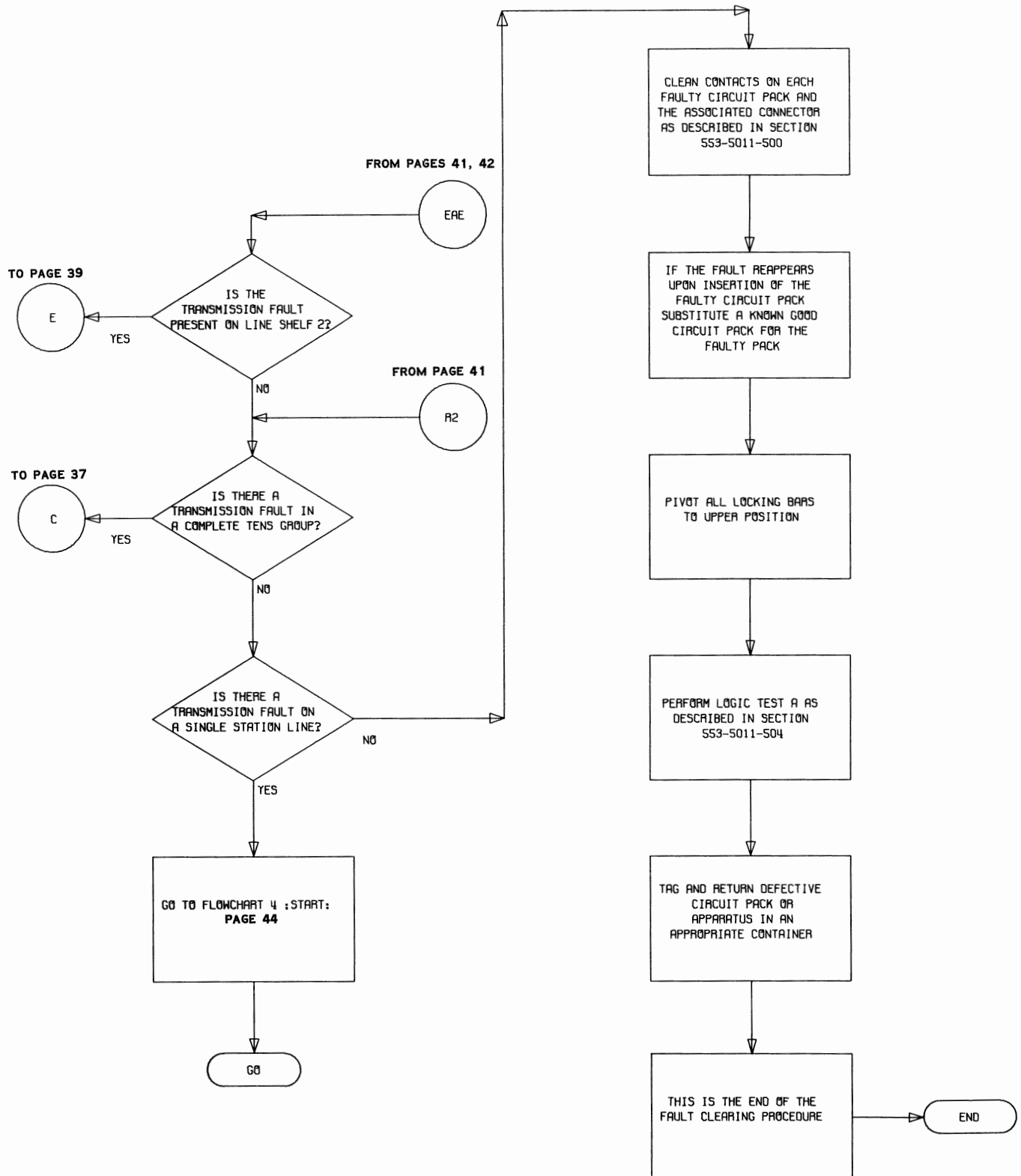
FROM PAGES 37-40,42



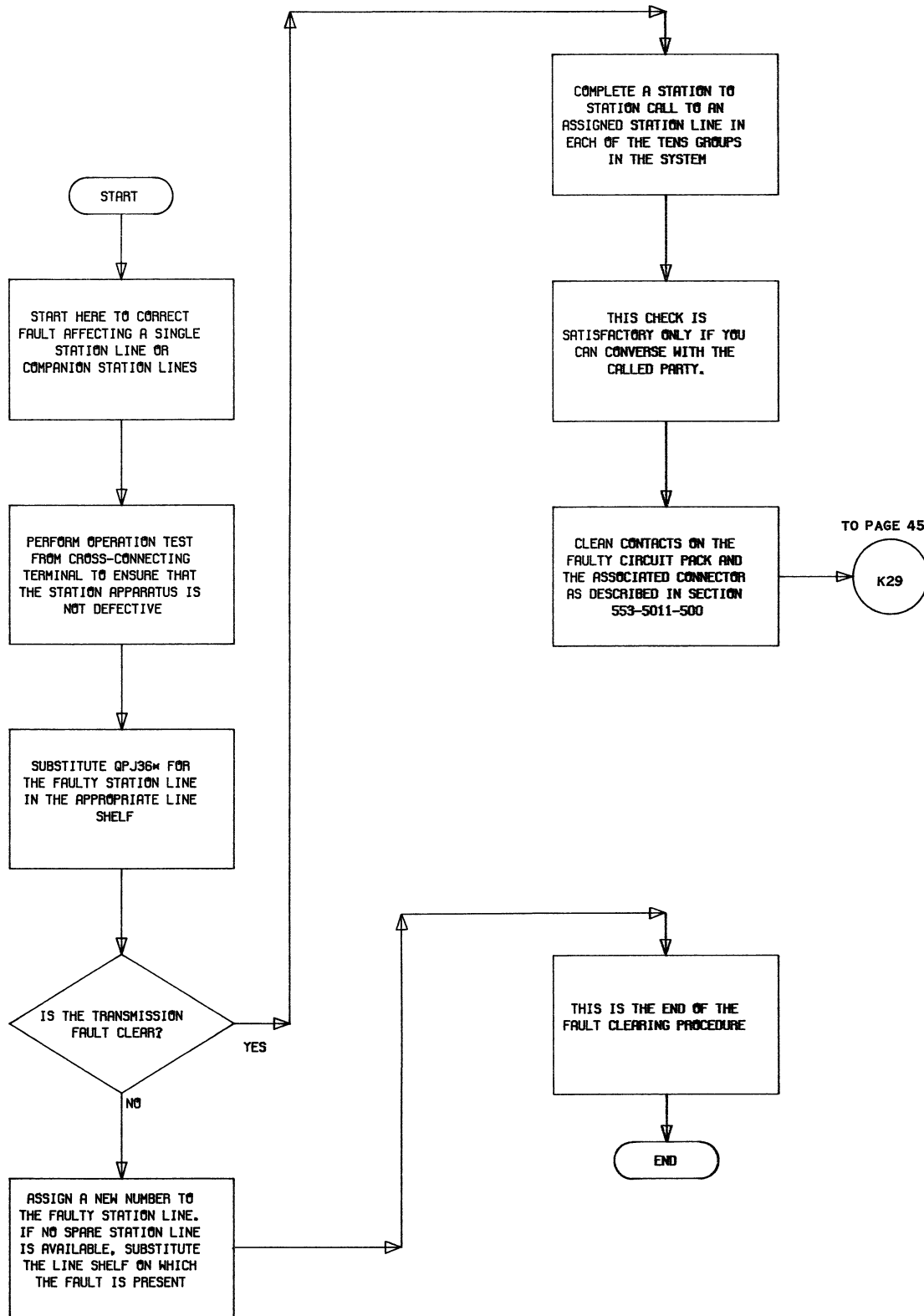
Flowchart 3 (Cont)



Flowchart 3 (Cont)

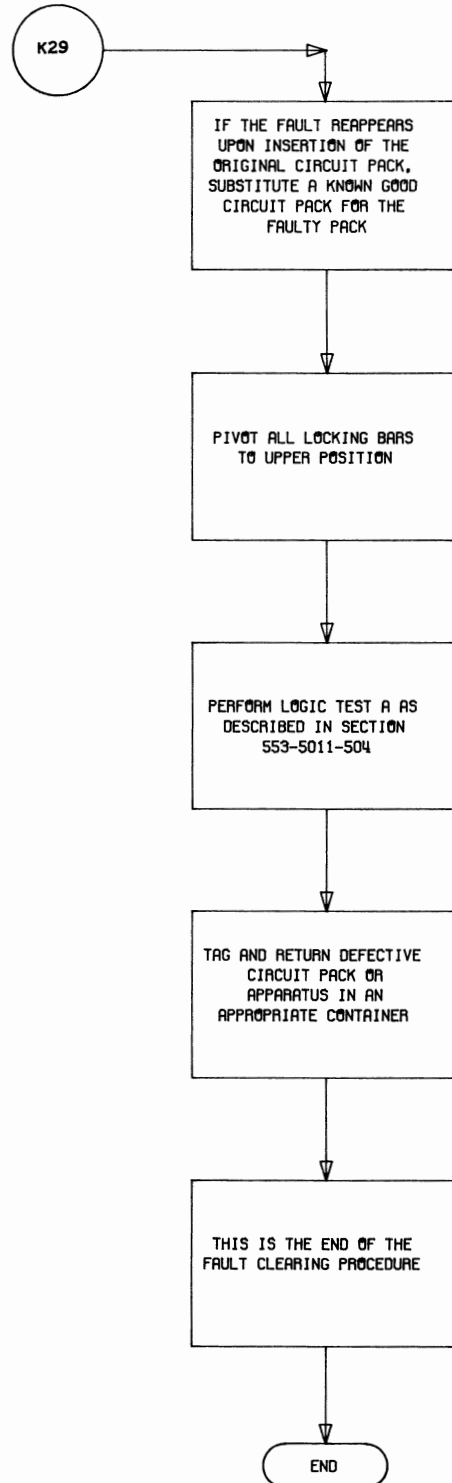


Flowchart 3 (Cont)

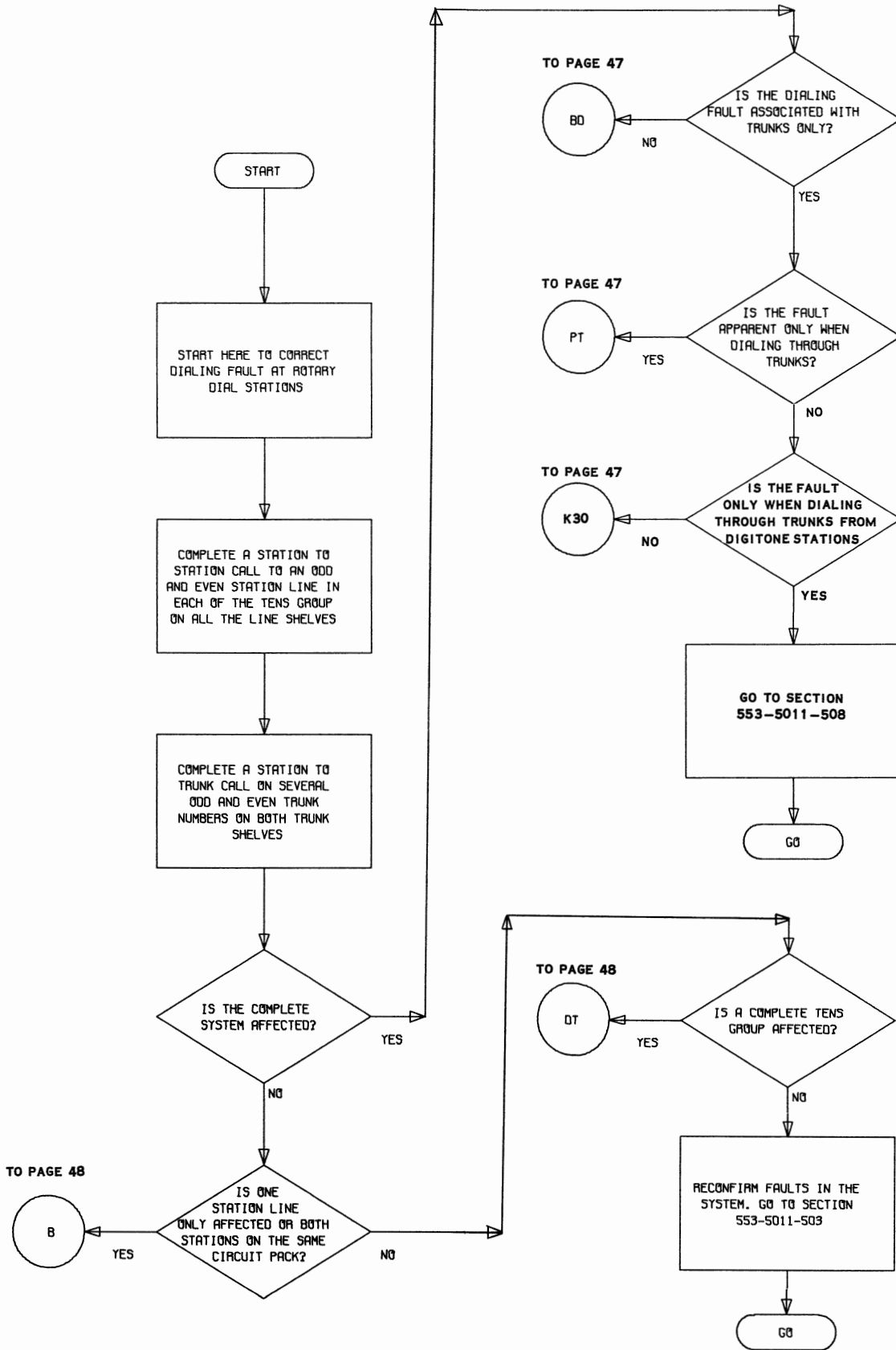


Flowchart 4 – Single Station Line Transmission Fault

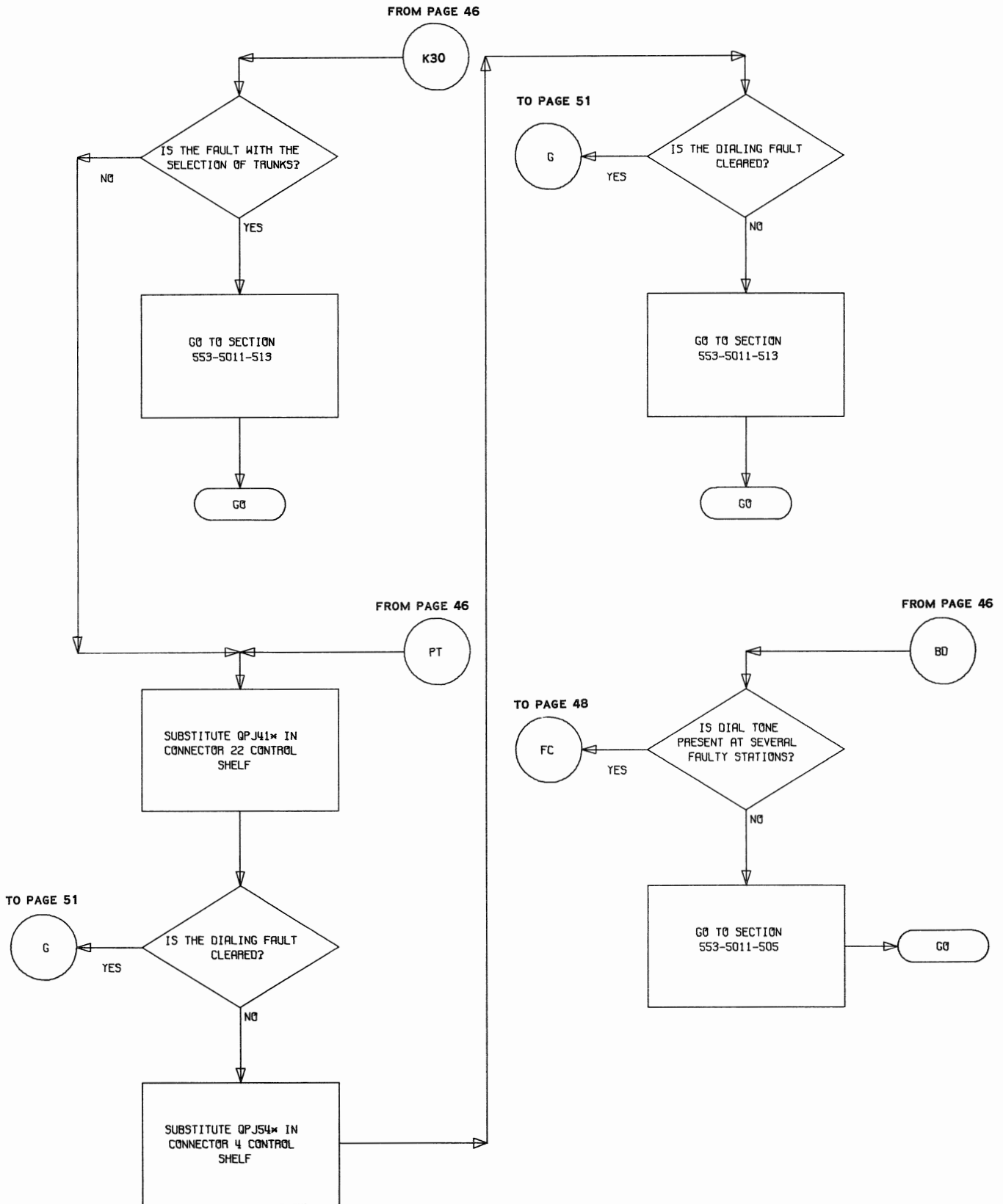
FROM PAGE 44



Flowchart 4 (Cont)



Flowchart 5 – Dialing Faults

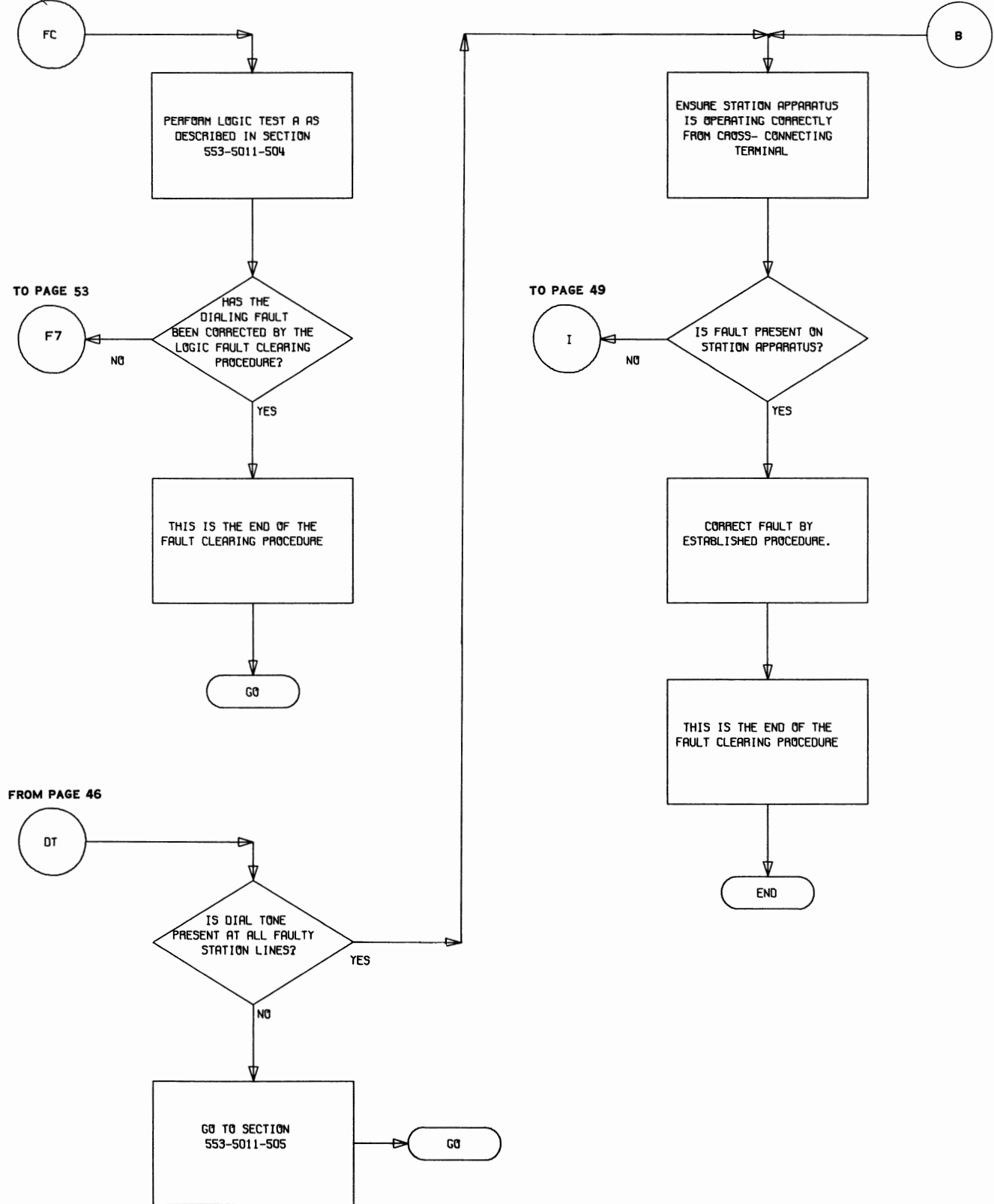


Flowchart 5 (Cont)

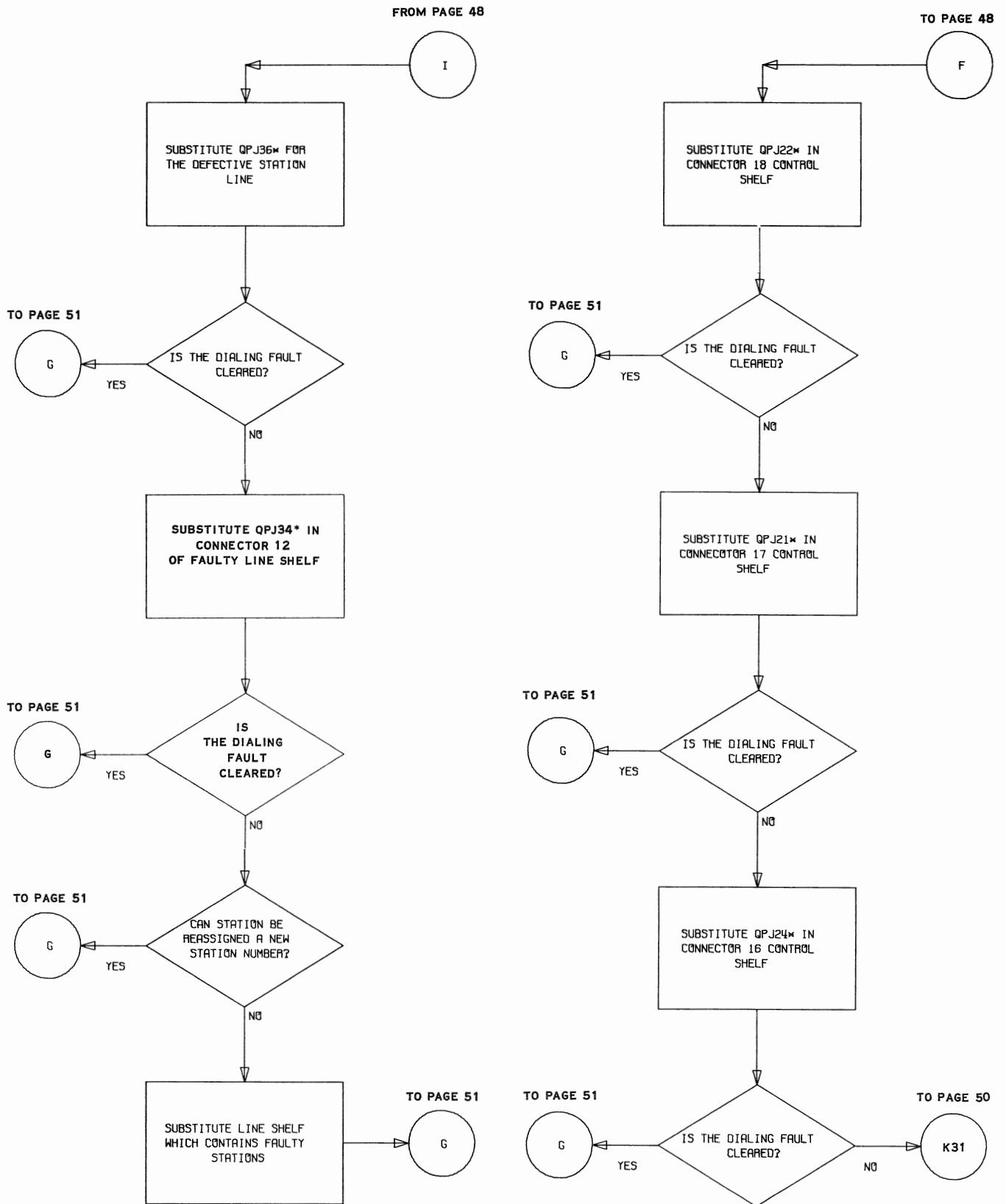
SECTION 553-5011-507

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FROM PAGE 46

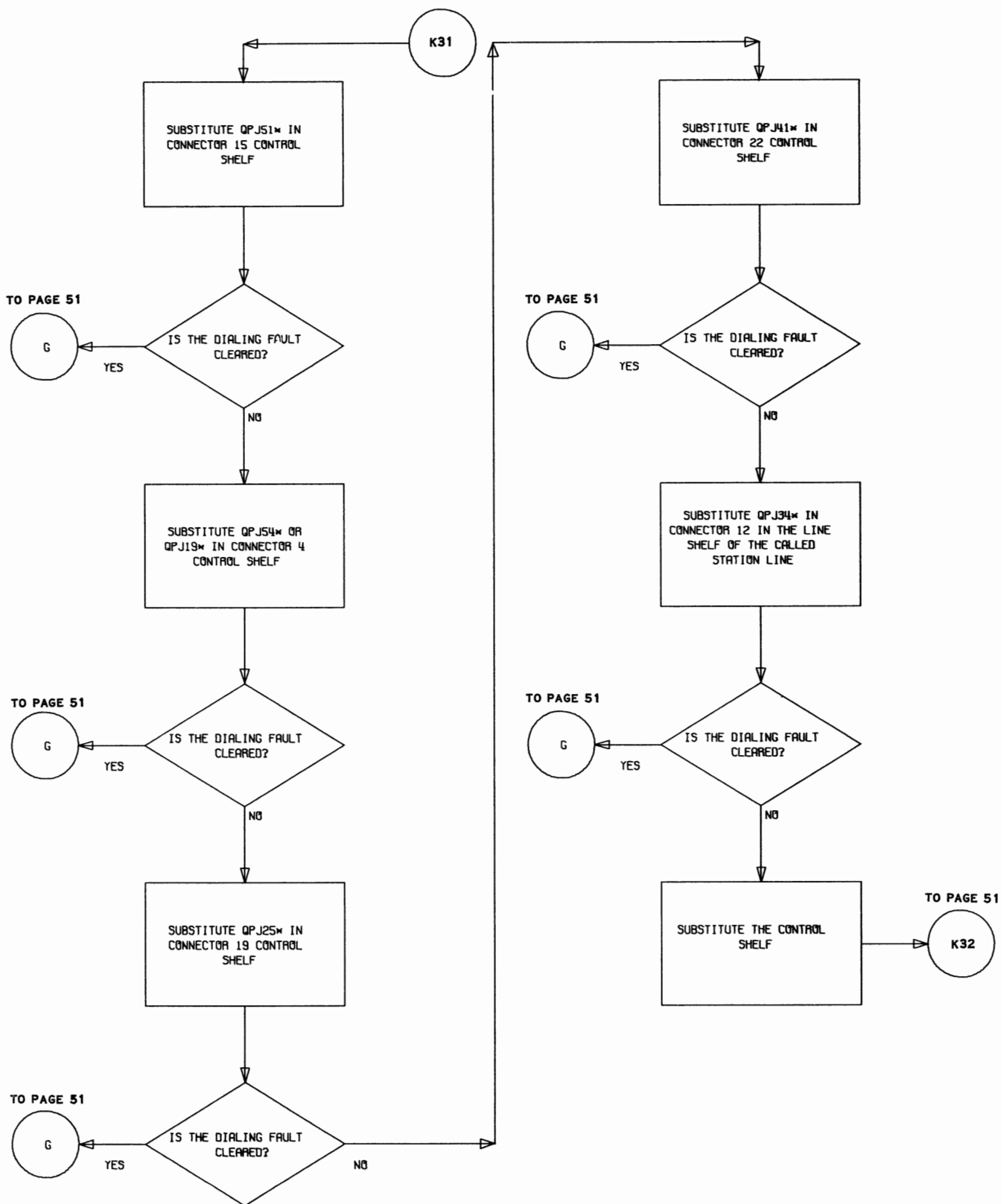


Flowchart 5 (Cont)

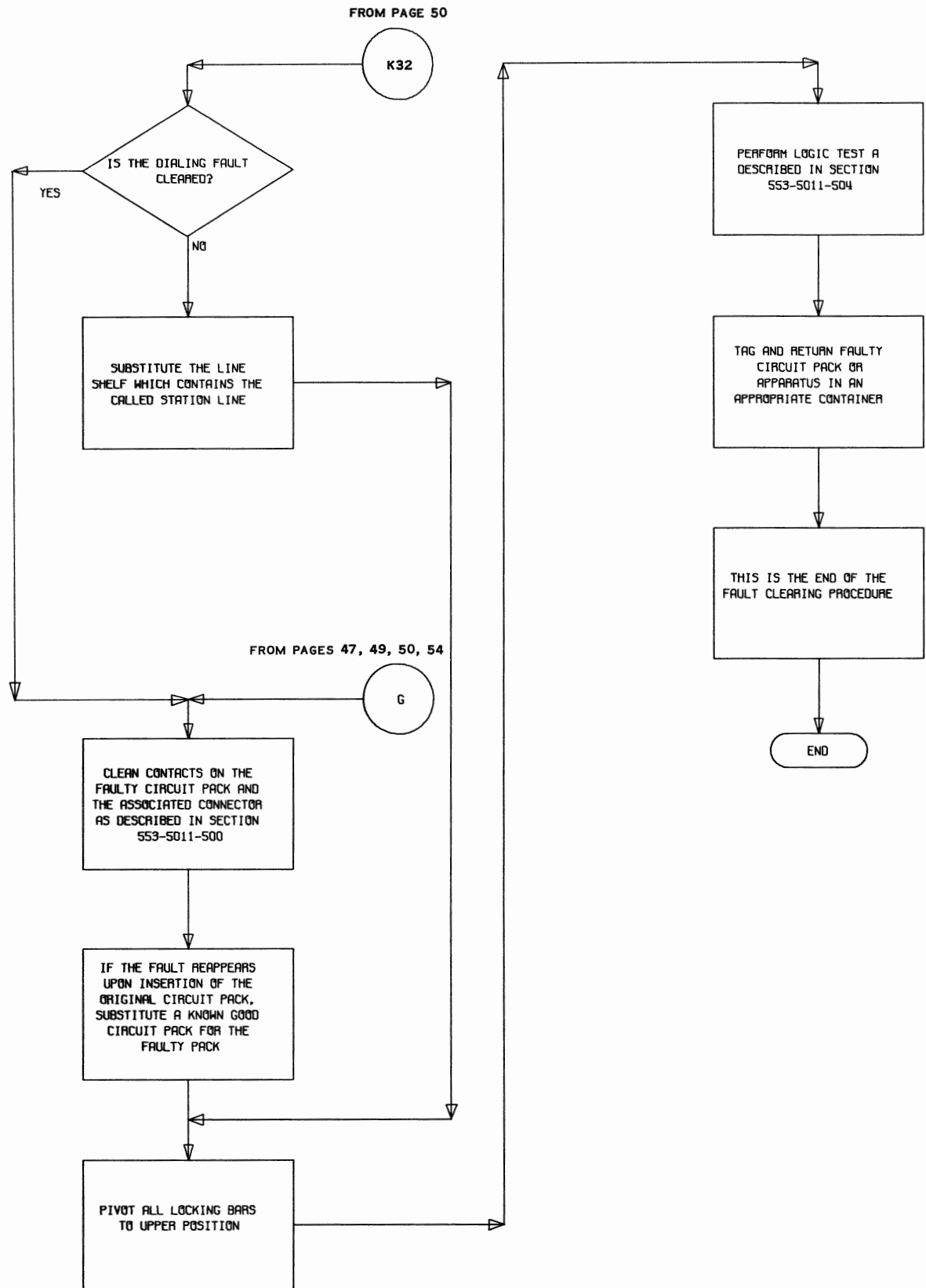


Flowchart 5 (Cont)

FROM PAGE 49



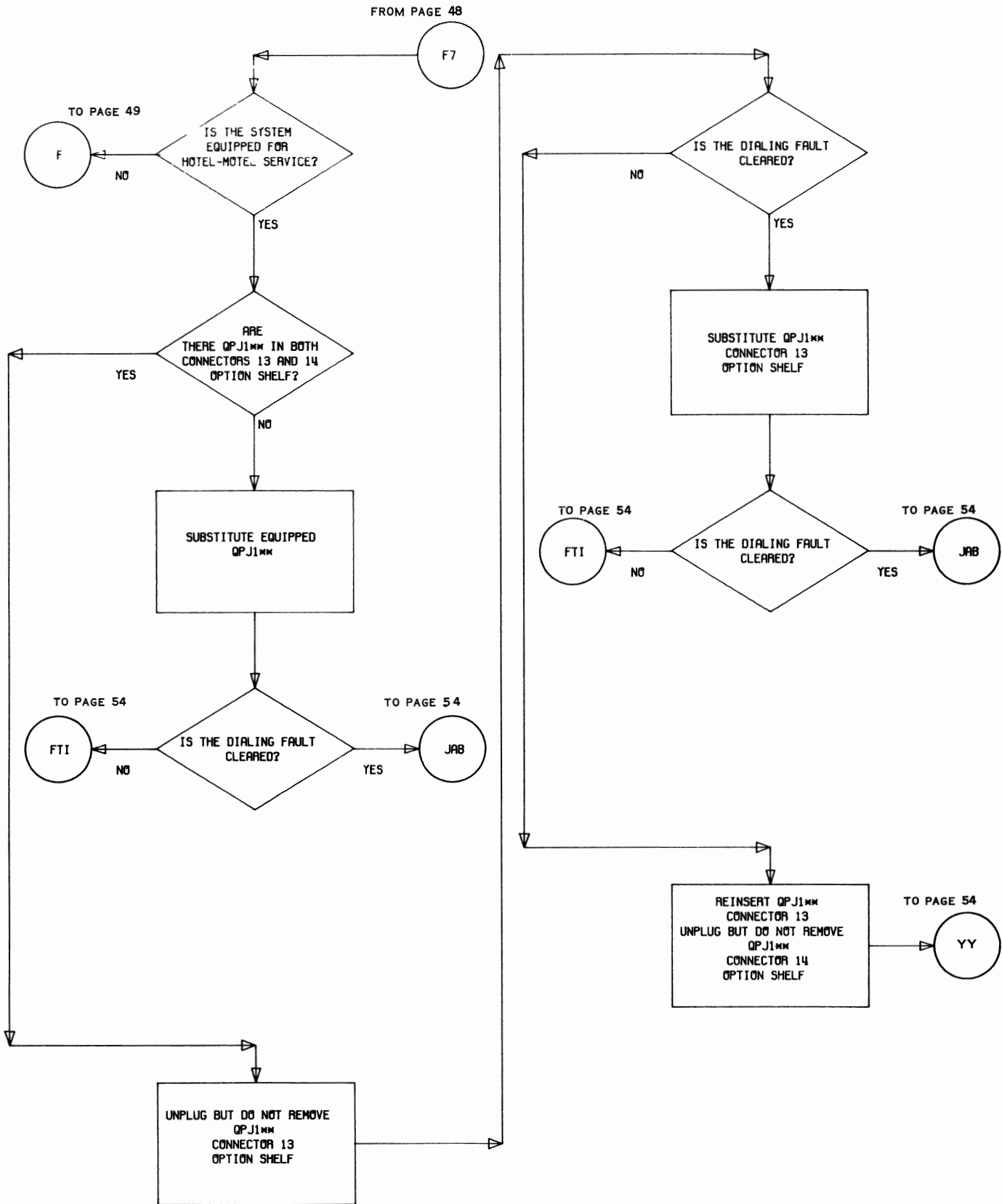
Flowchart 5 (Cont)



Flowchart 5 (Cont)

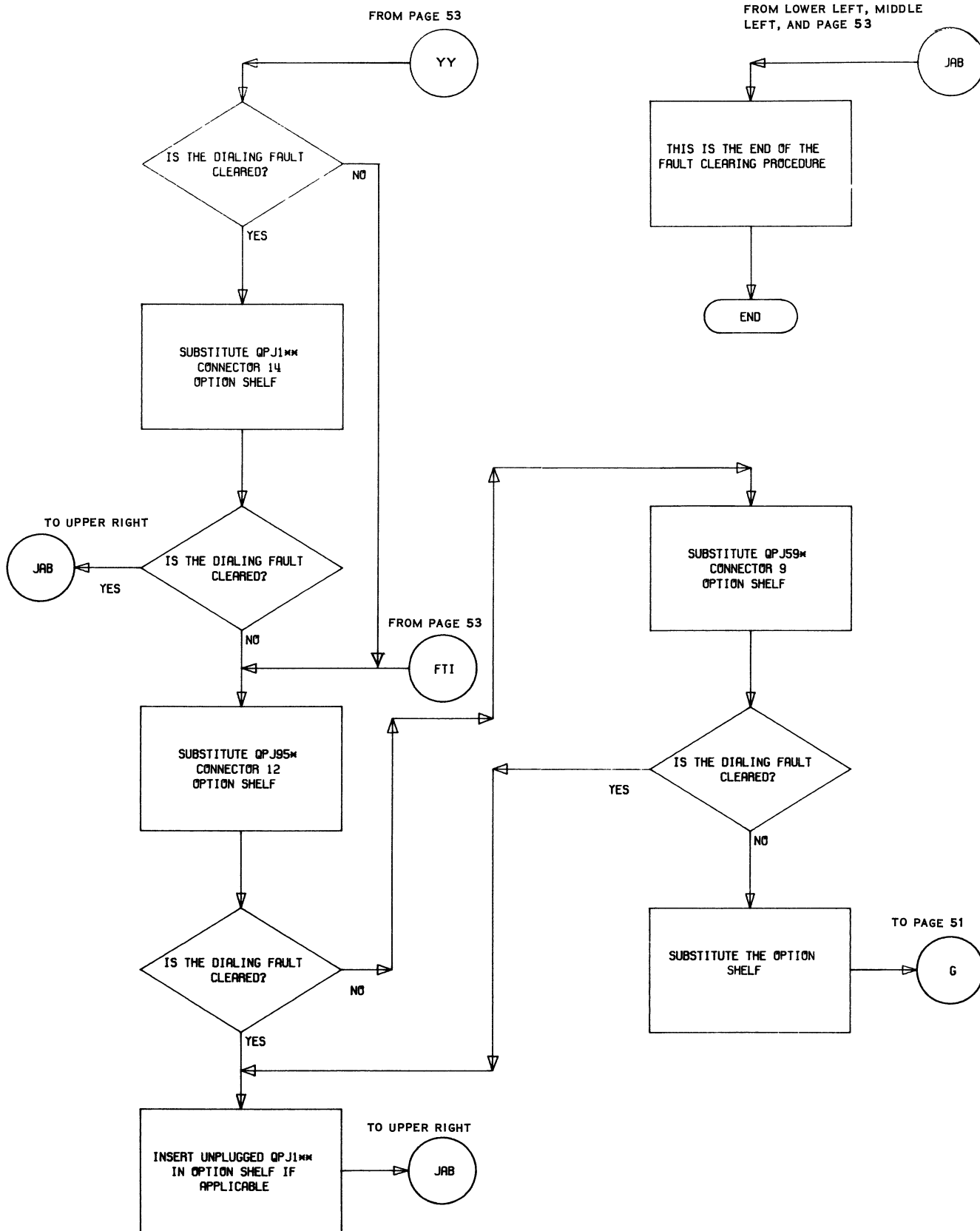
TABLE A
SEQUENCE FOR INSERTING CIRCUIT PACKS AND JACKS

SEQUENCE	CIRCUIT PACK	CONNECTOR	JACK	SHELF
1	—	—	J350	Trunk no. 1
	—	—	J360	Trunk no. 1
	—	—	J370	Trunk no. 1
2	QPJ34*	12	—	Line no. 1
3	QPJ34*	13	—	Line no. 1
4	—	—	J300	Line no. 1
	—	—	J310	Line no. 1
5	QPJ34*	12	—	Line no. 2
6	QPJ34*	13	—	Line no. 2
7	—	—	J320	Line no. 2
	—	—	J330	Line no. 2
8	QPJ34*	12	—	Line no. 3
9	QPJ34*	13	—	Line no. 3
10	—	—	J380	Line no. 3
	—	—	J390	Line no. 3
11	QPJ31*	12	—	Trunk no. 2
12	QPJ42*	13	—	Trunk no. 2
13	—	—	QPF18A	Trunk no. 2



NOTE: QPJ1** MAY BE QPJ10*, QPJ11*, QPJ12*, OR QPJ13*.

Flowchart 5 (Cont)



Flowchart 5 (cont)