

**“PULSE\* 120” – SG-1A****ELECTRONIC PRIVATE AUTOMATIC BRANCH EXCHANGE****TRUNK TRANSMISSION FAULT CLEARING PROCEDURE****1. GENERAL**

1.01 This section describes the procedure to follow for clearing trunk transmission faults in the PULSE 120 Electronic Private Automatic Branch Exchange (EPABX).

**2. TRUNK CIRCUIT PACKS**

2.01 The locations of the trunk circuit pack on trunk shelf 1 and trunk shelf 2 are shown in Fig. 1. Each trunk circuit pack provides an interface between the system and one external trunk line, giving voice-transmission capability.

2.02 A Light-Emitting Diode (LED) on the component side of the trunk circuit pack provides a busy trunk indication when lit.

**3. FAULT CLEARING**

3.01 Station-line faults must be corrected before attempting to correct trunk faults.

3.02 If the reported fault is a noise condition throughout the system, the power-supply tests described in Chart 1 of Section 553-5011-516 must be performed before beginning this fault-clearing procedure.

3.03 Before starting the fault-clearing procedure, a trunk transmission test from the cross-connecting terminal must be performed to ensure that the fault is in the PULSE 120 Electronic Private Automatic Branch Exchange (EPABX).

3.04 A faulty trunk can be found by dialing trunk access codes on a handset connected to the maintenance test unit (QPJ97-type circuit pack) in the control shelf as described in logic Test E in Section 553-5011-504.

3.05 If faults are present on both trunk shelves, clear first the faults on trunk shelf 1.

3.06 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:* The asterisk (\*) after the circuit pack code replaces the suffix letter.

3.07 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 visible 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.

3.08 If different or additional faults or both are created in the system by substituting a circuit pack, the replacement is to be tagged and returned as a defective unit.

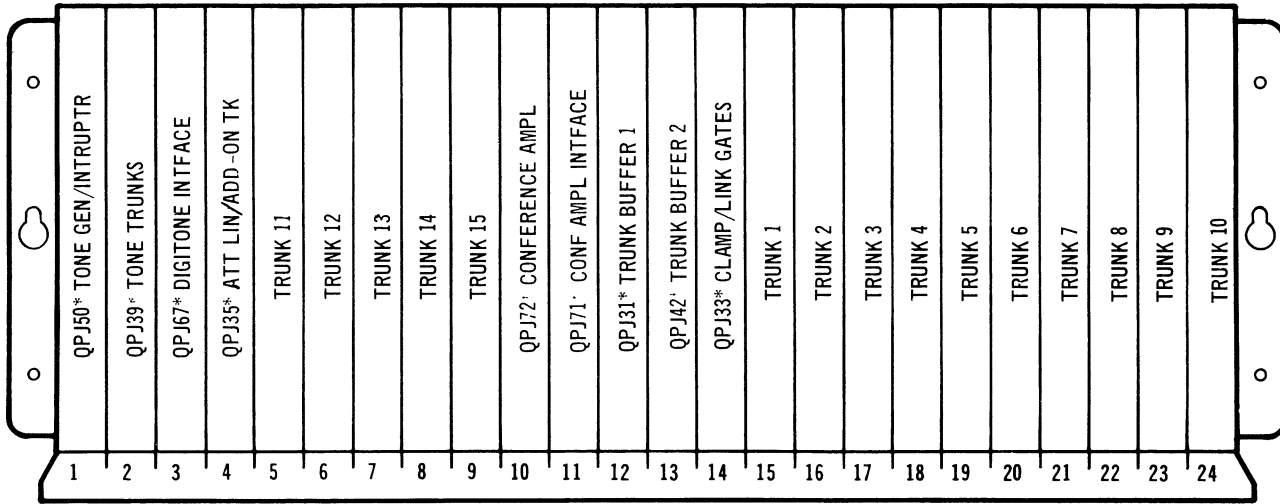
3.09 If the fault is not cleared by substitution of a circuit pack, the original circuit pack must be reinserted into the connector.

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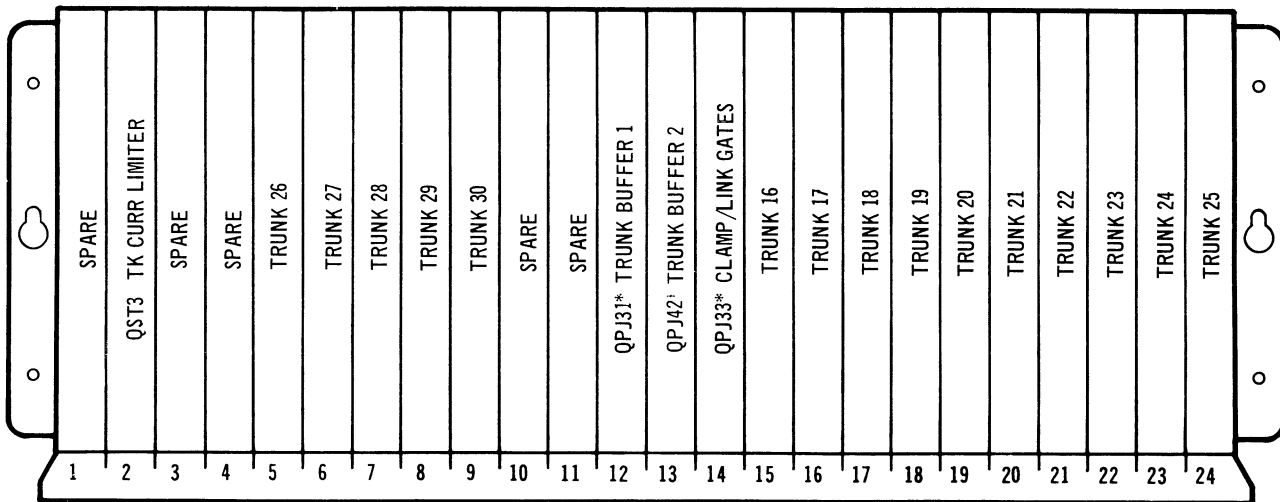
**SECTION 553-5011-513**

3.10 The QPY112A and QPY113A decoupling units are mounted on the shelf side of the hinged backplate at the rear of the trunk shelves. The decoupling units are substituted by removing the screws, which secure the unit to the backplate and by disconnecting the slip-on connectors. The backplate is released to tilt on its lower edge by removing the screw in the retaining clip at the upper centre edge of the backplate.

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

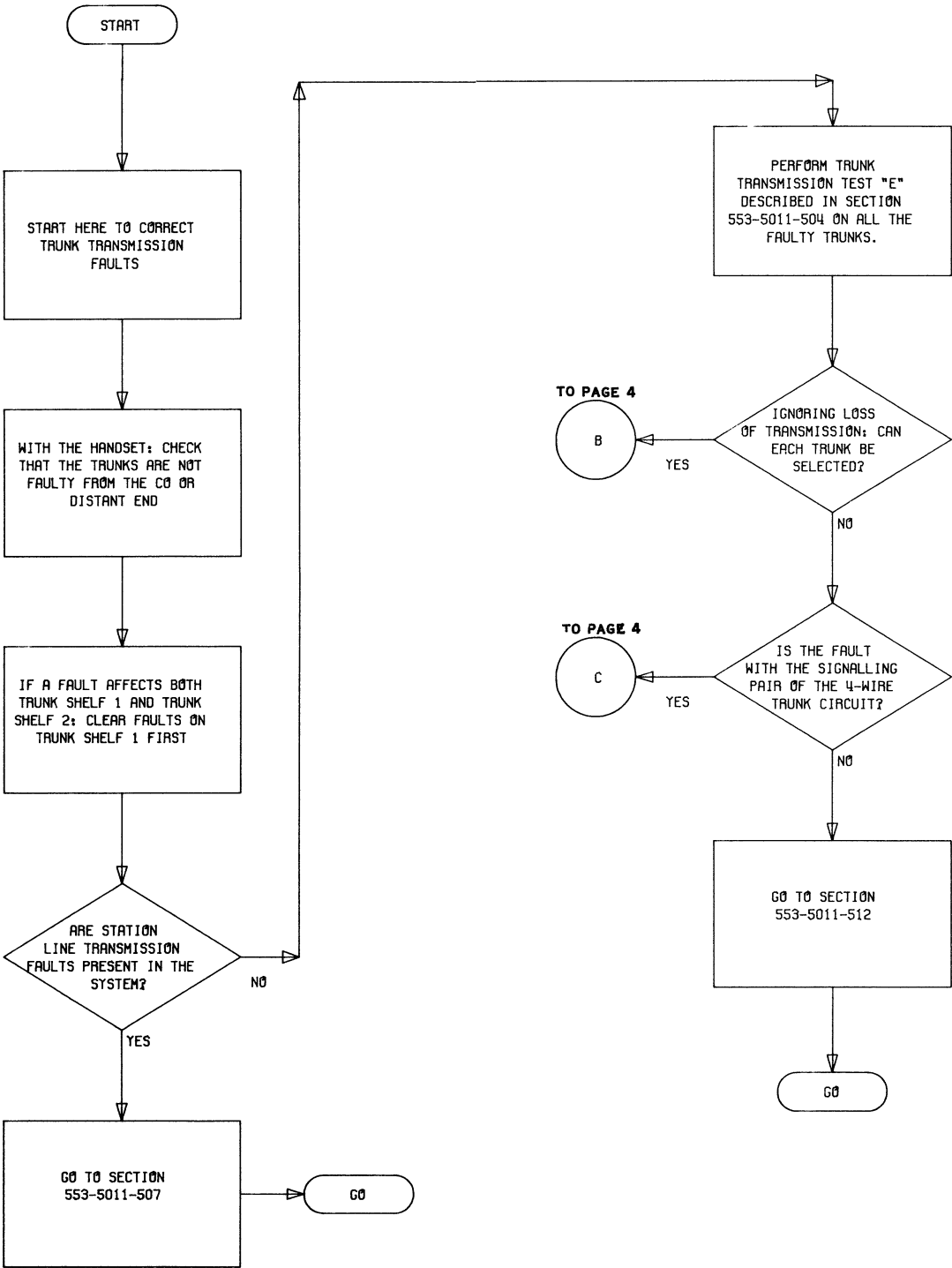


**(a) Trunk Shelf No. 1**

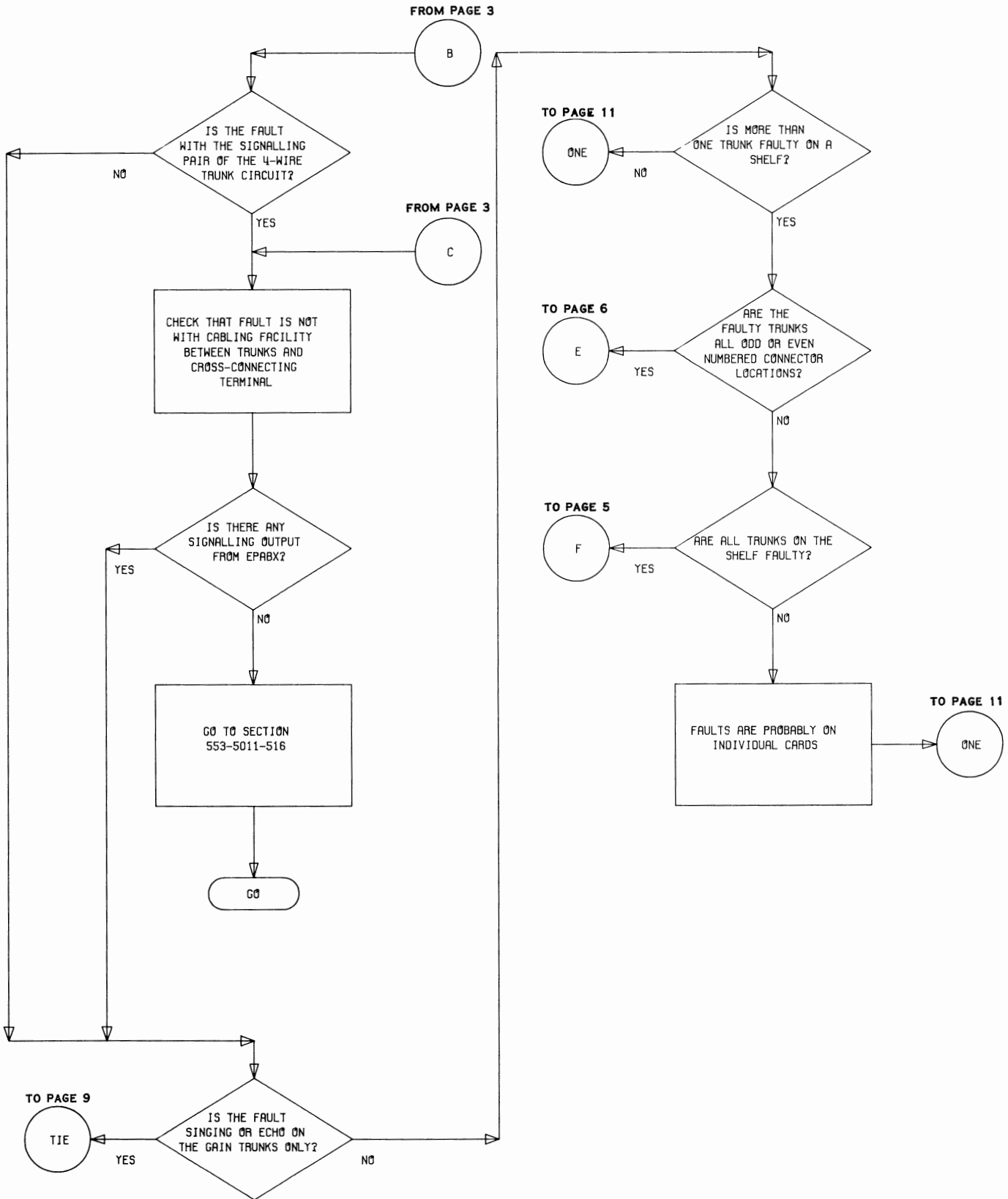


**(b) Trunk Shelf No. 2**

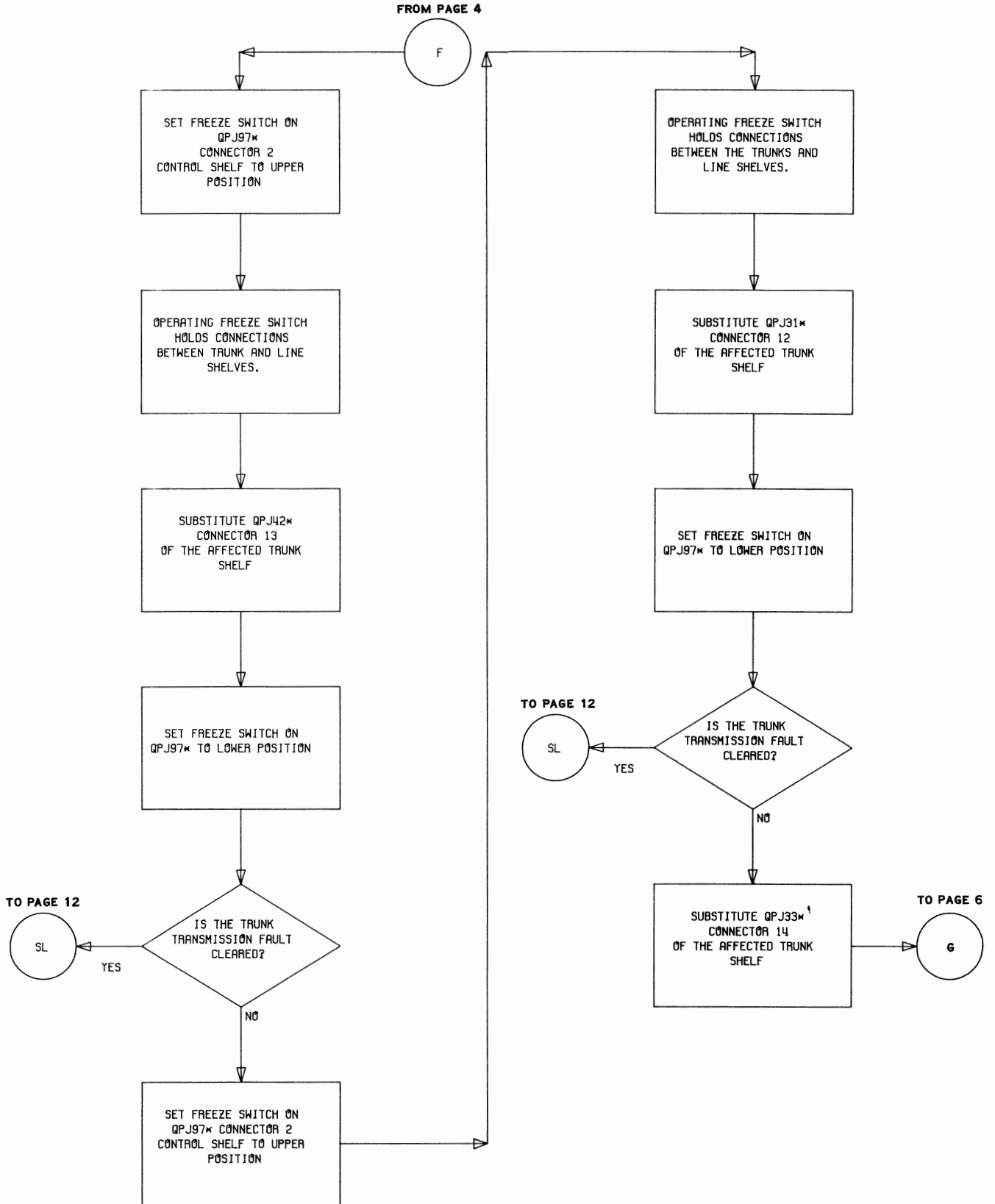
**Fig. 1 – Trunk Circuit Pack Locations**



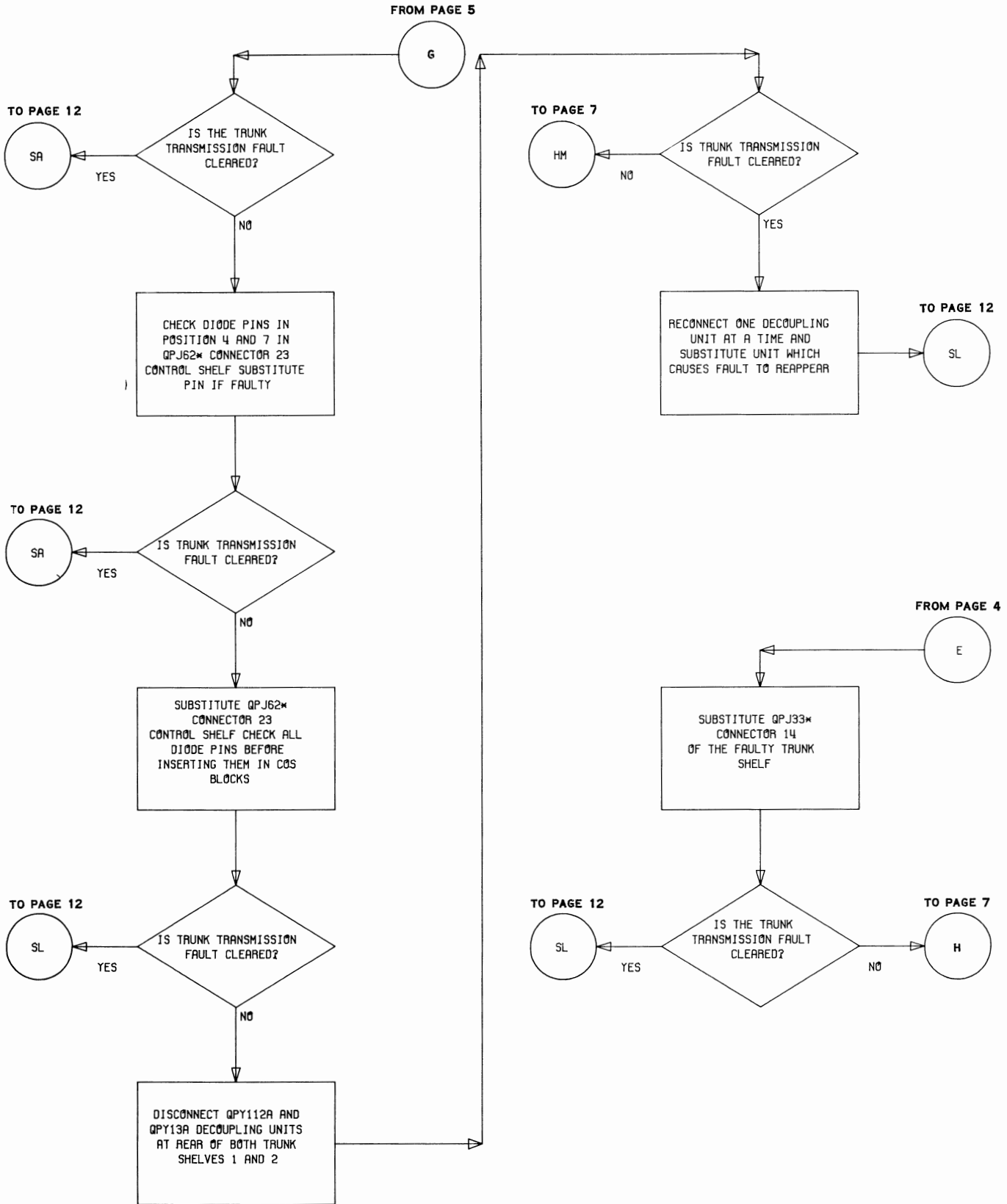
Flowchart 1 - Trunk Transmission Faults



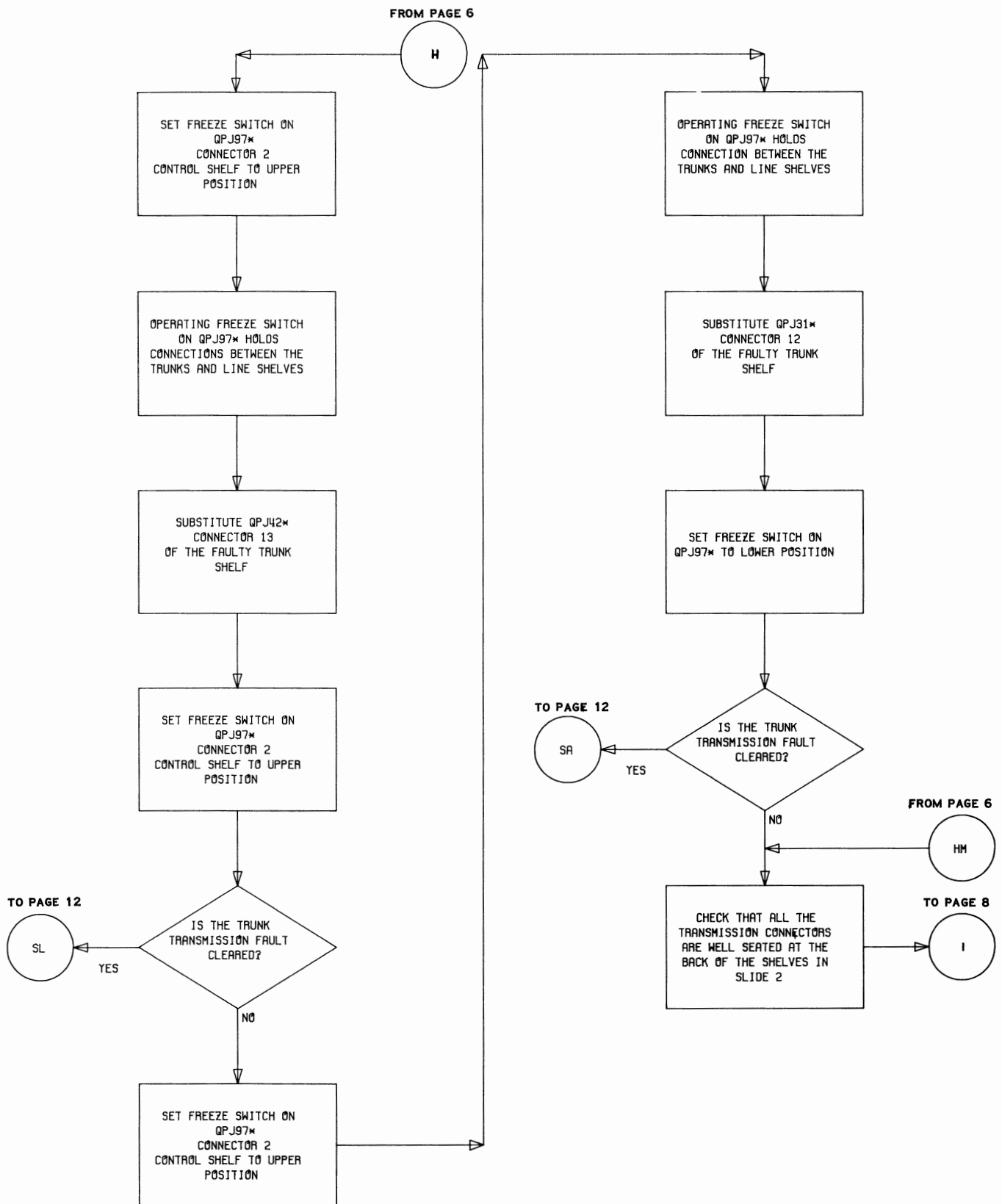
Flowchart 1 (Cont)



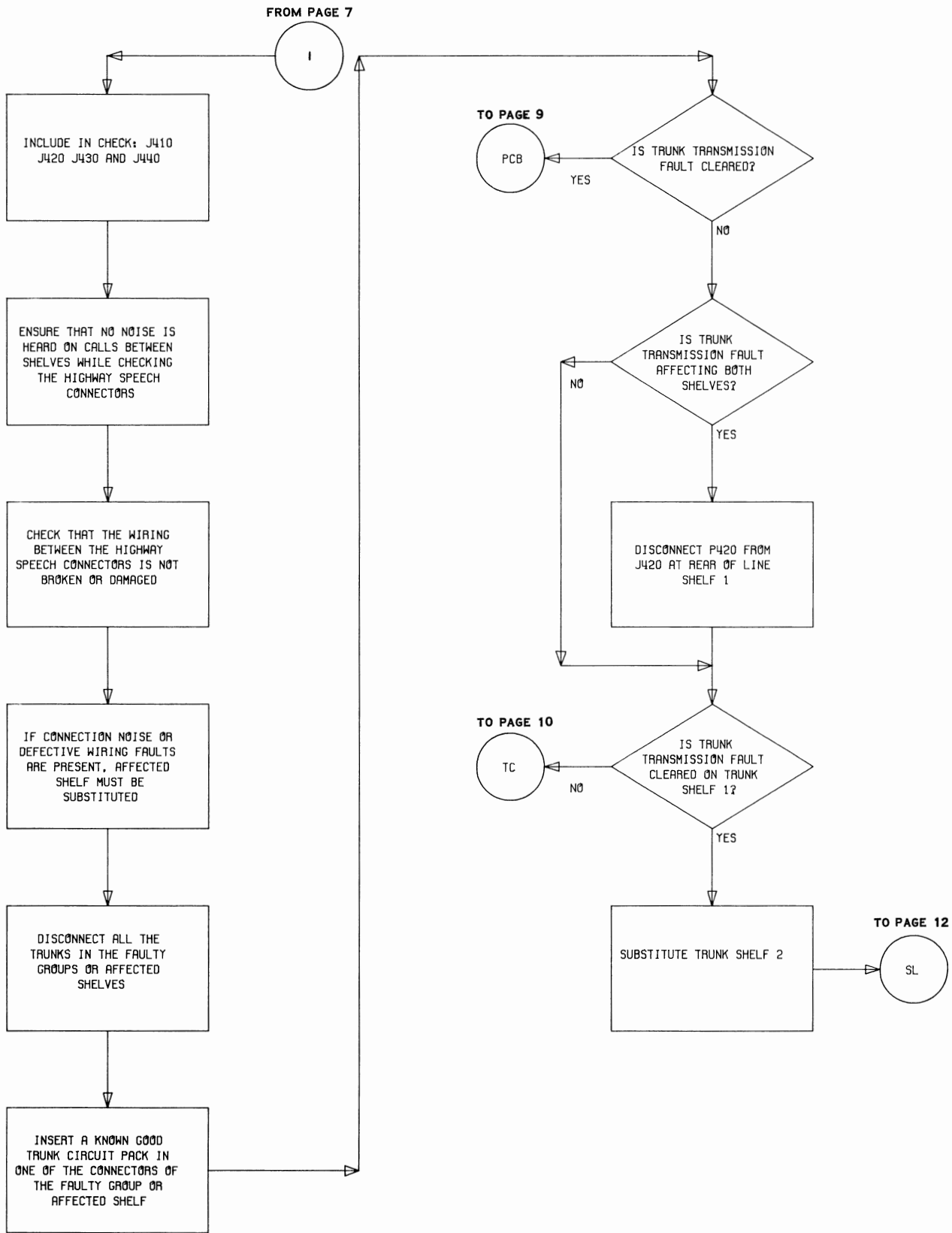
Flowchart 1 (Cont)



Flowchart 1 (Cont)

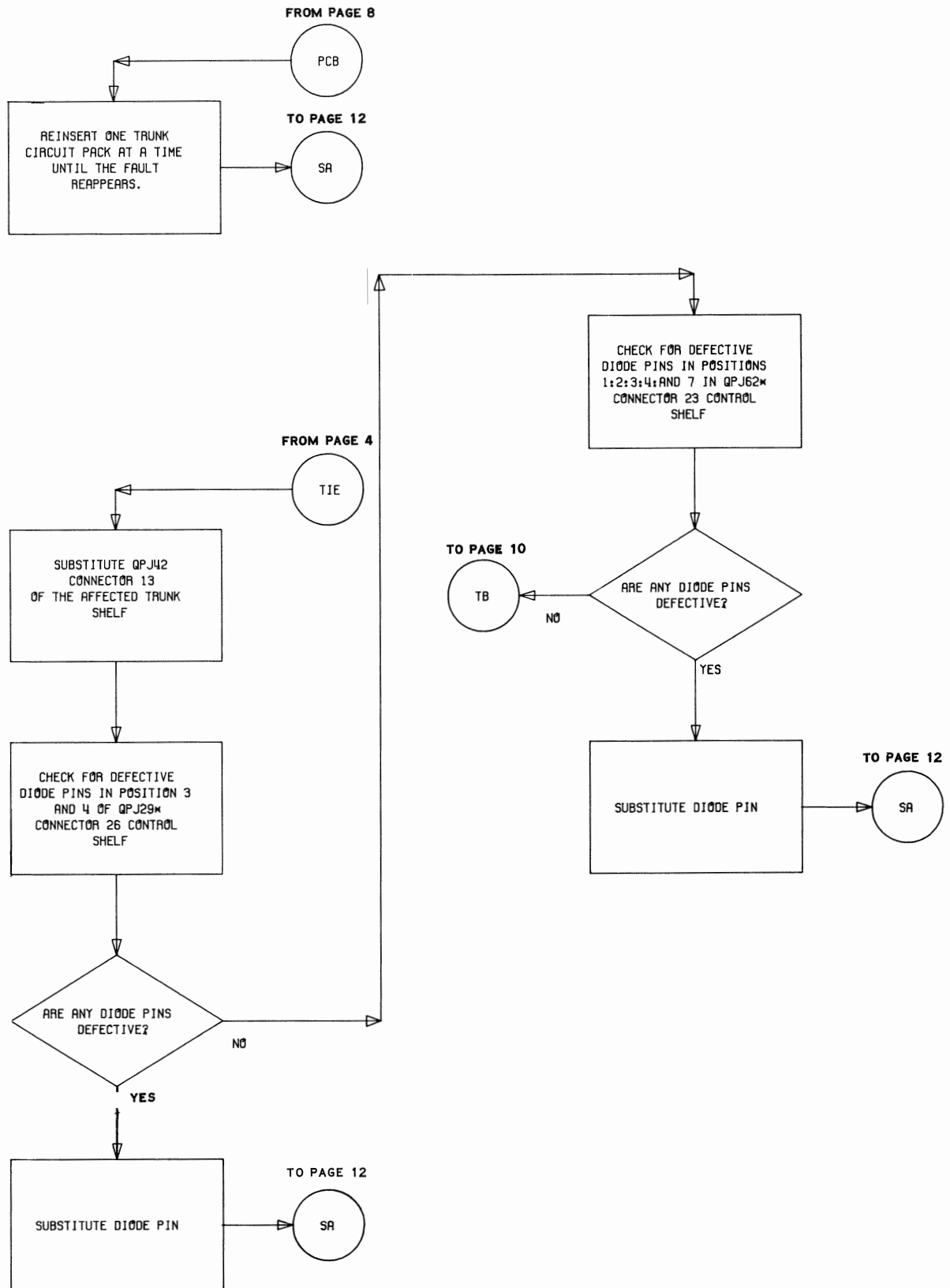


Flowchart 1 (Cont)

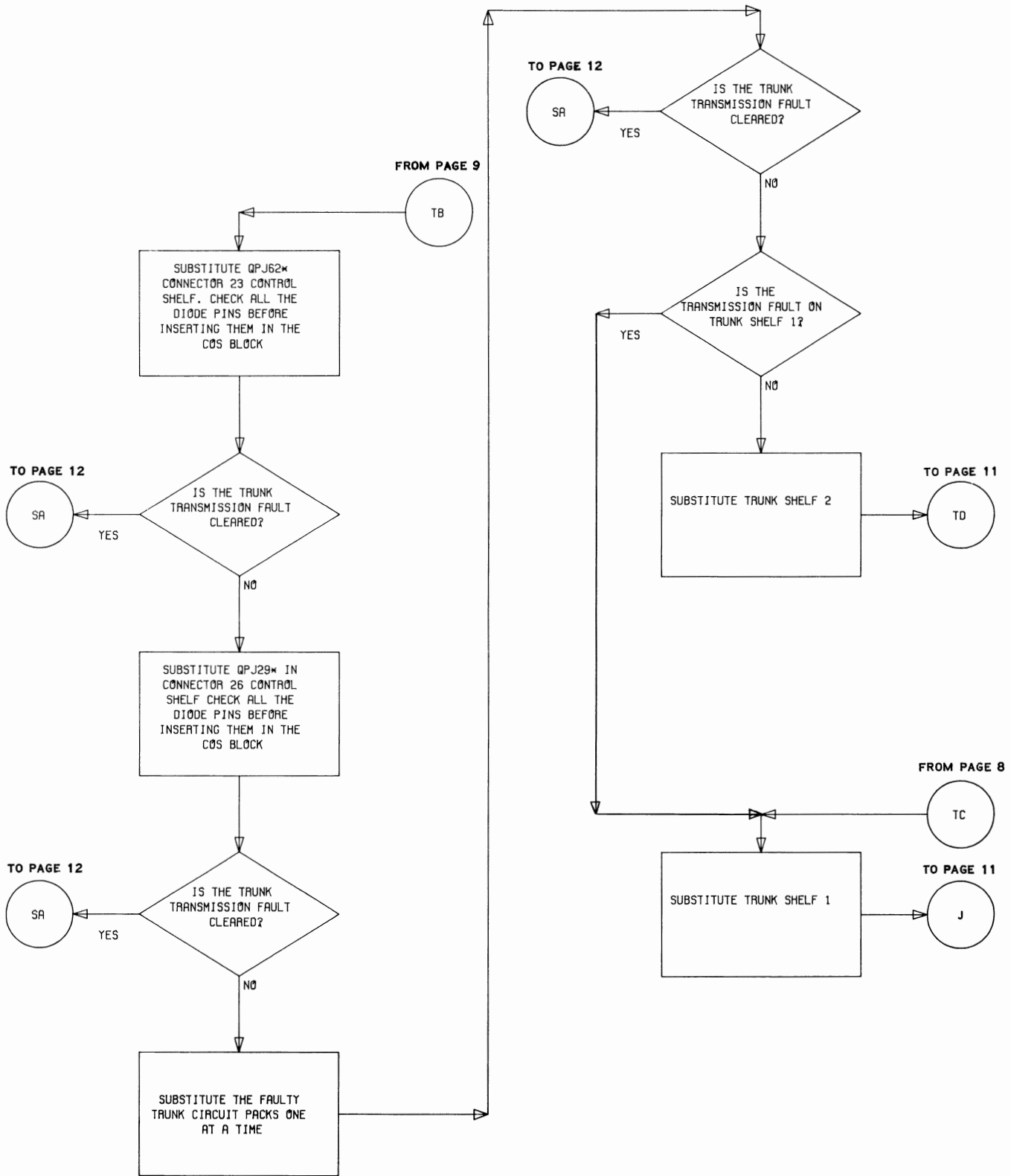


Flowchart 1 (Cont)

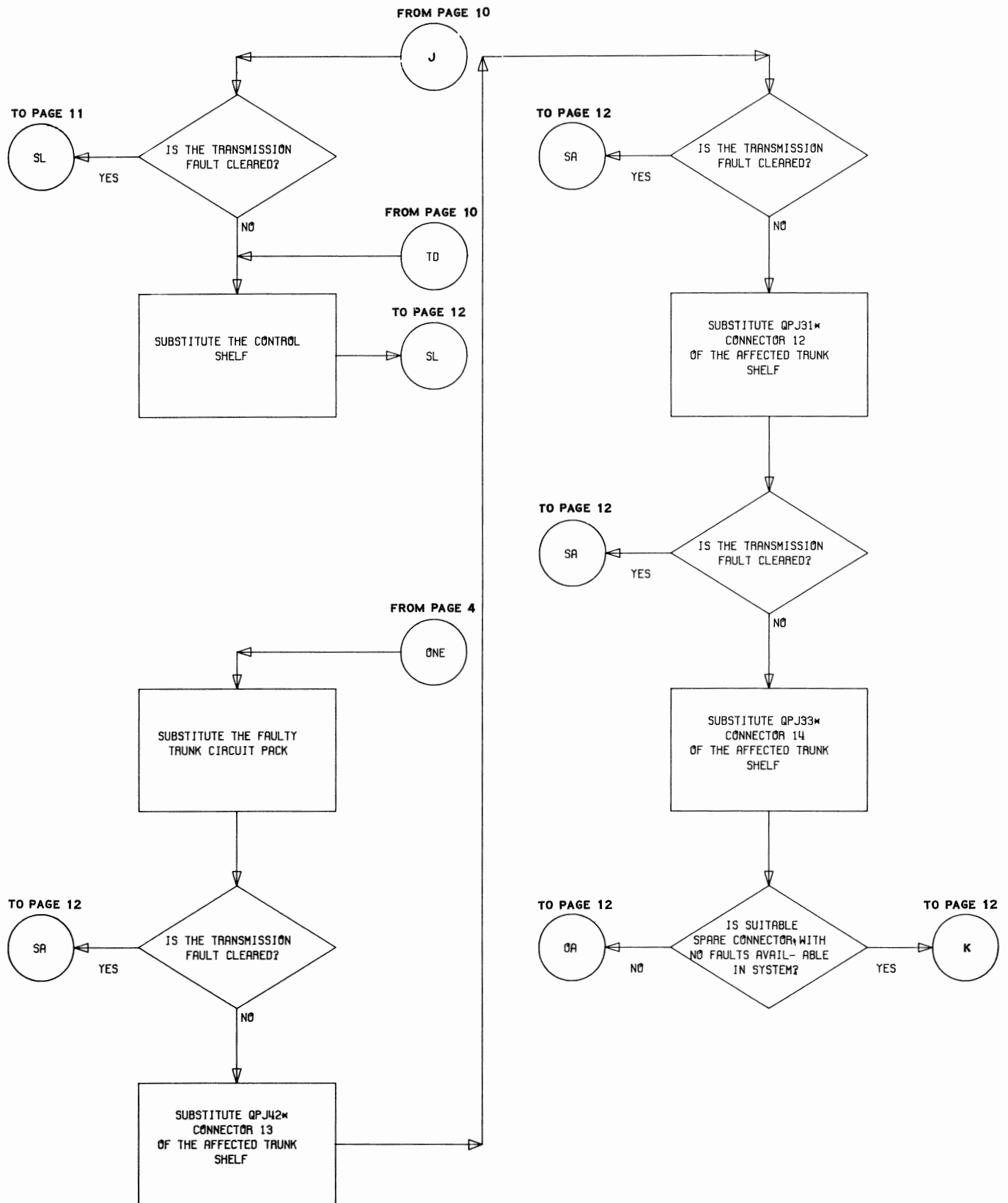




Flowchart 1 (Cont)



Flowchart 1 (Cont)



Flowchart 1 (Cont)

