

DATA SET 201C

TRANSMITTER-RECEIVER

MAINTENANCE

1. GENERAL

1.01 This section contains information on the maintenance of data set (DS) 201C. The section coordinates the efforts of a craft employee with those of a test center when investigating trouble reports on DS 201C.

1.02 This section is reissued to add maintenance information on DS 201C when it is used as a remote extension of a DS 209A-L1 multiplex system or as a substrate off-net extension of the digital data system (DDS). Since this reissue is a general revision, arrows normally used to indicate changes have been omitted.

1.03 Routine maintenance is not required for DS 201C. For information on the maintenance of data auxiliary sets used with DS 201C, refer to the applicable sections listed in Part 3, References.

2. MAINTENANCE

2.01 When investigating a trouble report, proceed as directed in the following figures:

Fig. 1—Maintenance Sequence (2-Wire Switched Network)

Fig. 2—Maintenance Sequence (2-Wire Private Line)

Fig. 3—Maintenance Sequence (4-Wire Private Line)

Refer to Section 592-029-500 for the maintenance test procedures for DS 201C.

2.02 When DS 201C is used as an extension of a DS 209A-L1 multiplex system, refer to Section 592-032-300 for maintenance information. Procedures used at the serving test center (STC) to maintain this system are contained in Section 666-511-504.

2.03 When DS 201C is used as a substrate off-net extension of the DDS, refer to Section 314-919-300 for maintenance information. Procedures used at the hub office STC to maintain the analog portion of this system are contained in Section 666-511-501.

2.04 If DS 201C is used as a remote extension of a DS 209A-L1 multiplex system or as a substrate off-net extension of the DDS, the following restrictions apply to the use of the self tests:

(a) The analog loop-back self test cannot be performed at a remote extension with options as installed. If the M23B cord is temporarily installed at the remote extension, this test can be performed.

(b) The digital loop-back self test cannot be performed from a remote extension (with options as installed) in toward DS 201C collocated with DS 209A-L1. If the M23B cord is temporarily installed at the remote extension, this test can be performed.

(c) The digital loop-back self test cannot be performed from a remote extension (with options as installed) in toward a hub office of the DDS. If the internal timing option is temporarily installed at the remote extension, this test can be performed.

2.05 If it becomes necessary to dispatch a telephone company (telco) employee to the data set location, the following equipment should be taken along:

- 914C data test set (DTS) *or* 914B and 903 DTS
- Spare DS 201C.

NOTICE

Not for use or disclosure outside the
Bell System except under written agreement

SECTION 592-029-300

2.06 If the data set is replaced, the defective data set should be tagged with a tag describing the nature of the trouble, carefully packed, and returned to a service center for repair. After the data set has been replaced, verify with the customer that service is satisfactory.

2.07 If the trouble persists, proceed as follows:

- (a) Check that the options installed in the data set agree with those specified on the service order.
- (b) Verify that the customer provided equipment (CPE) has been tested and is operating satisfactorily.
- (c) Verify that all the cords and connectors are properly connected.
- (d) Check for physical damage.
- (e) Check for intermittent trouble in the station wiring.
- (f) Verify that the data set and the CPE are connected to a common ground.
- (g) If the trouble cannot be cleared, request help from immediate supervisor.

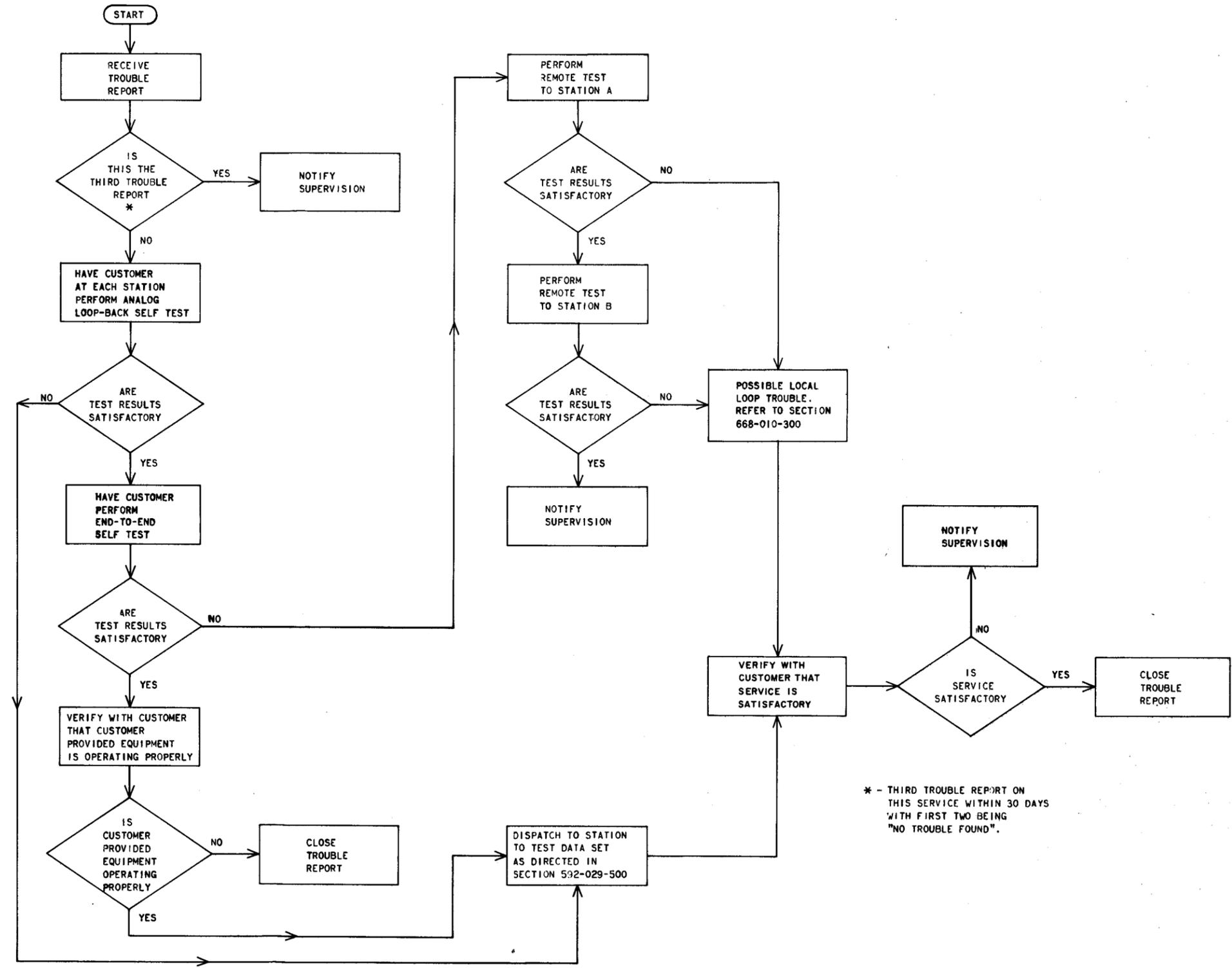
3. REFERENCES

3.01 Additional information concerning DS 201C and auxiliary apparatus is contained in the following publications:

SECTION	TITLE
314-205-501	Data Systems—DATA-PHONE® Service and Data Access Arrangements on Direct Distance Dialing Network—Test Requirements for Subscriber, Foreign Exchange, and Remote Exchange Lines
314-410-500	Voice Bandwidth Private Line Data Circuits—Tests and Requirements
314-901-300	Digital Data System—Serving Test Center—Two-Point Private

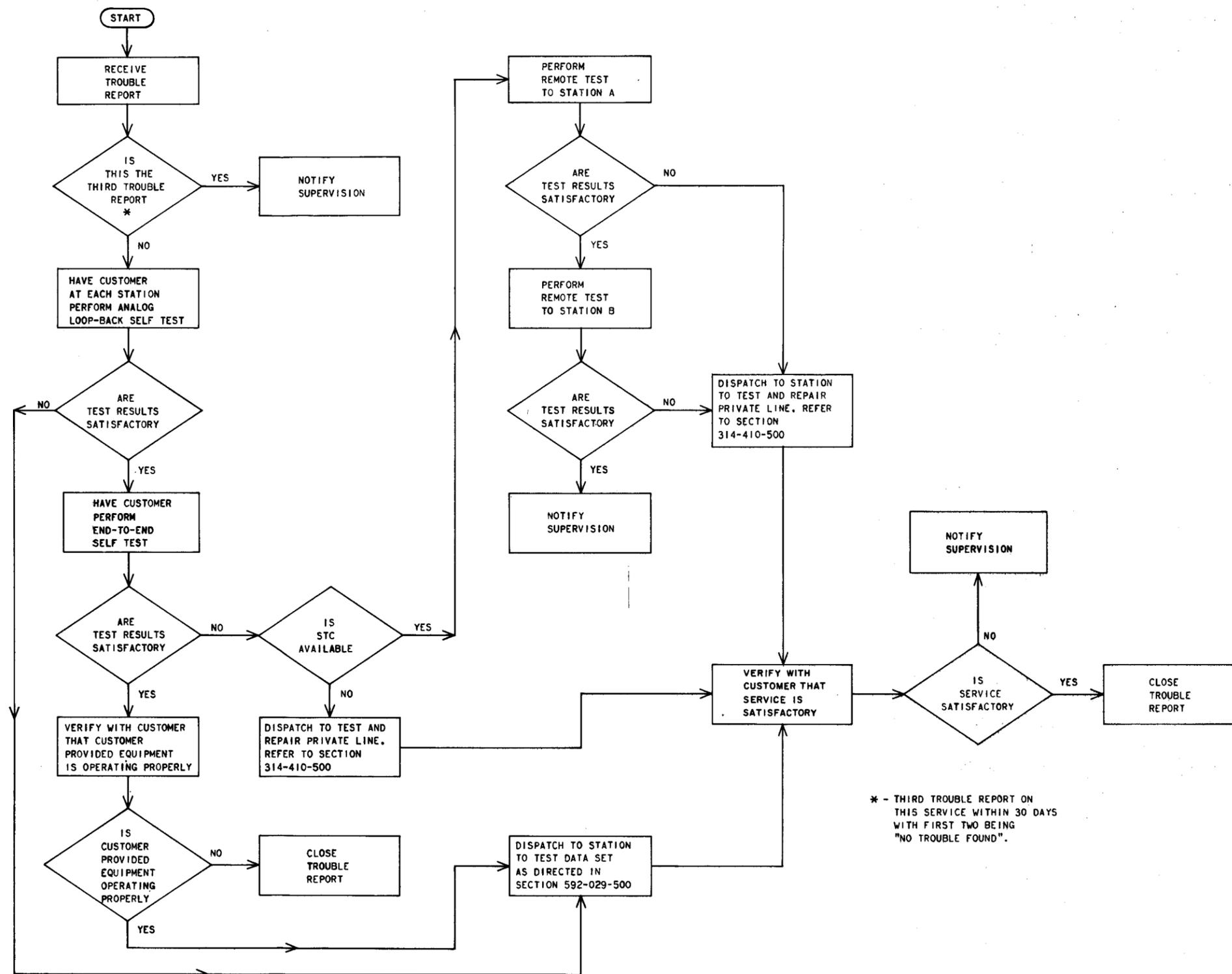
SECTION	TITLE
	Line Circuit—Maintenance Procedures
314-919-300	Digital Data System—Substrate Off-Net Extension Arrangement—Maintenance
592-029-100	Data Set 201C—Transmitter-Receiver—Description and Operation
592-029-200	Data Set 201C—Transmitter-Receiver—Installation and Connections
592-029-500	Data Set 201C—Transmitter-Receiver—Test Procedures Using 914-Type Data Test Set
592-032-300	Data Set 209A-L1—Transmitter-Receiver—Maintenance
598-010-101	Data Auxiliary Sets 801A5 and 801A6 for Automatic Calling—Description and Operation
598-010-201	Data Auxiliary Sets 801A5 and 801A6 for Automatic Calling—Installation and Connections
598-010-301	Data Auxiliary Sets 801A5 and 801A6 for Automatic Calling—Maintenance
598-010-501	Data Auxiliary Sets 801A5 and 801A6 for Automatic Calling—Test Procedures
598-012-101	Data Auxiliary Sets 801C3 and 801C4—Description and Operation
598-012-102	Data Auxiliary Set 801C-L1/2—Description and Operation
598-012-201	Data Auxiliary Sets 801C3 and 801C4—Installation and Connections
598-012-202	Data Auxiliary Set 801C-L1/2—Installation and Connections
598-012-301	Data Auxiliary Sets 801C3 and 801C4—Maintenance

SECTION	TITLE	SECTION	TITLE
598-012-501	Data Auxiliary Sets 801C3 and 801C4—Test Procedures		Private Line Channels—Installation and Connections
598-012-502	Data Auxiliary Set 801C-L1/2—Test Procedures	598-082-201	Data Auxiliary Set 829-Type—Supplementary Functions for Voiceband Private Line Channels—(Alternate Voice and Dial Backup)—Installation and Connections
598-080-100	Data Auxiliary Set 828A—Description and Operation		
598-080-101	Data Auxiliary Set 828C—Description and Operation	598-082-500	Data Auxiliary Set 829-Type—Channel Interface Units—Voiceband Private Line Channels—Maintenance and Test Procedures
598-080-200	Data Auxiliary Set 828A—Installation and Connections		
598-080-201	Data Auxiliary Set 828C—Installation and Connections	598-082-501	Data Auxiliary Set 829-Type—Supplementary Functions for Voiceband Private Line Channels—(Alternate Voice and Dial Backup)—Test Procedures
598-080-500	Data Auxiliary Set 828A—Maintenance and Test Procedures		
598-080-501	Data Auxiliary Set 828C—Maintenance and Test Procedures	666-511-501	Test of Data Services Provided by Data Set 201C From a Private Line Testroom
598-082-100	Data Auxiliary Set 829-Type—Channel Interface Units—Voiceband Private Line Channels—Description	666-511-504	Test of Data Services Provided by Data Set 209A-L1 From a Private Line Testroom
598-082-101	Data Auxiliary Set 829-Type—Supplementary Functions for Voiceband Private Line Channels—(Alternate Voice and Dial Backup)—Description	668-010-300	Data Systems—DATA-PHONE® Service on Direct Distance Dialing Network—Data Test Center—Trouble Analysis Procedures
598-082-200	Data Auxiliary Set 829-Type—Channel Interface Units—Voiceband	999-100-138	Data Set 201C—How to Operate Manual
		3.02	Detailed information concerning DS 201C is contained in CD- and SD-1D239-01.



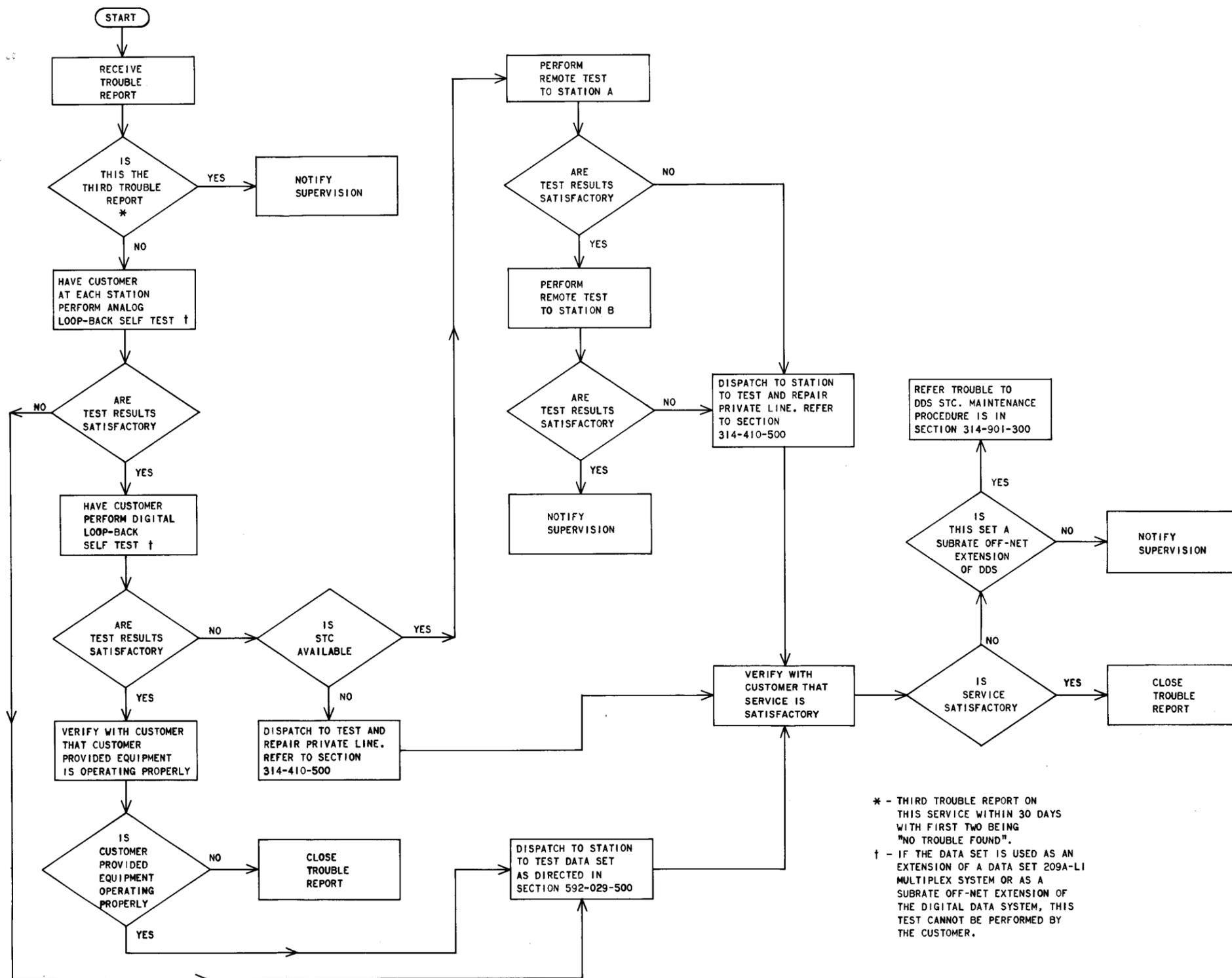
* - THIRD TROUBLE REPORT ON THIS SERVICE WITHIN 30 DAYS WITH FIRST TWO BEING "NO TROUBLE FOUND".

Fig. 1—Maintenance Sequence (2-Wire Switched Network)



* - THIRD TROUBLE REPORT ON THIS SERVICE WITHIN 30 DAYS WITH FIRST TWO BEING "NO TROUBLE FOUND".

Fig. 2—Maintenance Sequence (2-Wire Private Line)



* - THIRD TROUBLE REPORT ON THIS SERVICE WITHIN 30 DAYS WITH FIRST TWO BEING "NO TROUBLE FOUND".

† - IF THE DATA SET IS USED AS AN EXTENSION OF A DATA SET 209A-L1 MULTIPLEX SYSTEM OR AS A SUBRATE OFF-NET EXTENSION OF THE DIGITAL DATA SYSTEM, THIS TEST CANNOT BE PERFORMED BY THE CUSTOMER.

Fig. 3—Maintenance Sequence (4-Wire Private Line)