

MP1570A
SONET/SDH/PDH/ATM Analyzer
Remote Command
Reference Manual

First Edition

To ensure that the equipment is used safely, read the "For Safety" in the MP1570A SONET/SDH/PDH/ATM Analyzer Operation Manual Vol. 1 Basic Operation Sonet Edition or SDH Edition first.

Keep this manual with the equipment.

Measurement Solutions
ANRITSU CORPORATION

MP1570A
SONET/SDH/PDH/ATM Analyzer
Remote Command Reference Manual

31 August 2001 (First Edition)

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Introduction

This Reference Manual describes remote commands related to each screen of MP1570A. As for the screens listed, see [1.2 Screen List Table].

Note:

The remote commands described in this Reference Manual correspond to [Vol. 2 Remote Control, The 6th Edition] and [Vol. 4 2.5G/10G Measurement, The 6th Edition] which are the operation manuals for MP1570A SONET/SDH/PDH/ATM Analyzer, but do not correspond to other operation manuals, [Vol. 3 ATM Measurement], [Vol. 5 Add/Drop Measurement], [Vol.6 Jitter/Wander Measurement] and [Vol. 7 2.5G Jitter/Wander Measurement].

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Section 1 Overview

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1.1 About remote control

The measurement by M1570A SONET/SDH/PDH/ATM Analyzer can be automated by connecting it with an external controller. For the connection, GPIB interface, RS-232C interface or Ethernet interface is used. This analyzer supports the commands common to IEEE488.2 and adopts SCPI (Standard Commands for Programmable Instrument) to execute the remote control. For more information, see [MP1570A SONET/SDH/ATM Analyzer Operation Manual Vol. 2 Remote Control].

1.2 Screen List Table

This Reference Manual describes the remote commands related to the following screens.

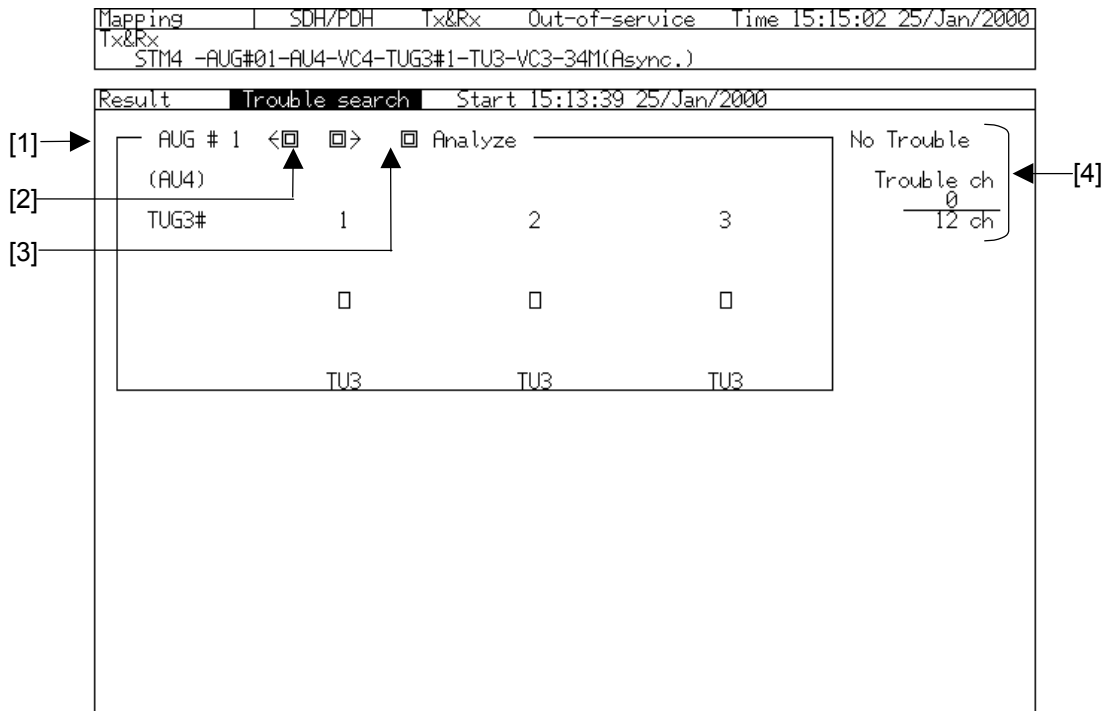
Main screen	Sub screen
Setup	Mapping Memory Print Floppy disk System OH preset Tandem Dummy preset Measurement condition APS programmable data PTR64 frame OH change data Frame memory Signalling preset Custom function Sequence test Auto setup S1 programmable data
Test menu	Trouble search Manual Pointer sequence Delay OH test APS test Performance check Frame memory
Result	Trouble search Error/Alarm Justification Zoom Performance B2 error Simultaneous Delay APS test
Analyze	Trouble search Error/Alarm OH monitor Opt. power meter OH capture APS capture Pointer monitor Frame capture Freq. monitor Frequency Sequence test

Note:

As for the command concerning the setting of Mapping route, see [Section 6 Appendix].

1.3 About Remote Command Reference

This Reference Manual describes the remote commands that correspond to the screen and items in the screen as follows.



No.	Command	Page of manual
[1]	:DISPlay:RESult:TSEarch:AUG :DISPlay:RESult:TSEarch:AUG? :DISPlay:RESult:TSEarch:STS :DISPlay:RESult:TSEarch:STS?	Vol. 2, 10-345
[2]	:DISPlay:RESult:TSEarch:SEARCh	Vol. 2, 10-345
[3]	:DISPlay:RESult:TSEarch:ANALyze	Vol. 2, 10-346
[4]	:CALCulate:TSEarch:RESult?	Vol. 2, 10-487

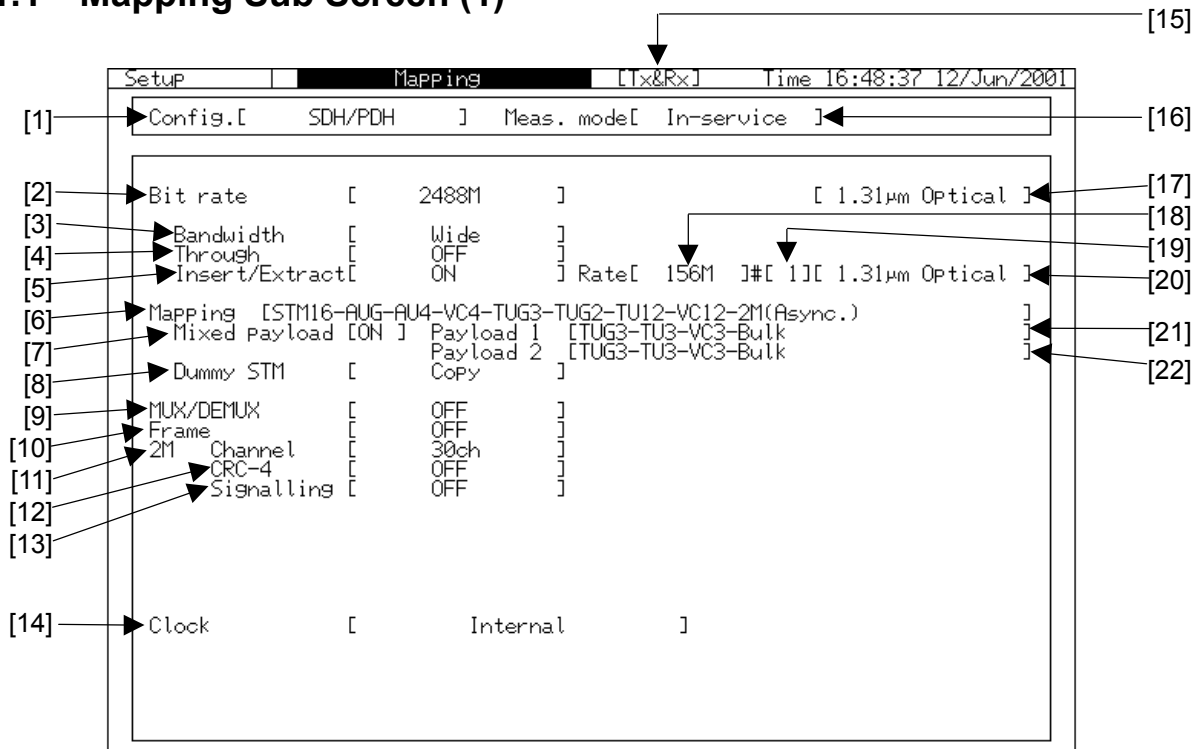
- No:
Indicates the number allocated to each remote control relevant item in the screen.
- Command:
Indicates the remote command that sets and asks the place of No.
- Page of manual:
Indicates the Vol. number and page of the operation manual that contains the remote command indicated by Command.

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2.1 Mapping Sub Screen

2.1.1 Mapping Sub Screen (1)



No.	Command	Page of manual
[1]	:INSTRUMENT:CONFIG :INSTRUMENT: CONFIG?	Vol.2, 10-8
[2]	:SOURCE:TELECOM:BRATE :SOURCE:TELECOM:BRATE? :SENSE:TELECOM:BRATE :SENSE:TELECOM:BRATE?	Vol.2, 10-36 Vol.2, 10-238
[3]	:SENSE:TELECOM:M9953:BWIDTh :SENSE:TELECOM:M9953:BWIDTh?	Vol.4, 6-42
[4]	:ROUTE:THROUGH[:TYPE] :ROUTE:THROUGH[:TYPE]?	Vol.2, 10-436
[5]	:SOURCE:TELECOM:INSERT:MODE :SOURCE:TELECOM:INSERT:MODE? :SENSE:TELECOM:EXTRACT:MODE :SENSE:TELECOM:EXTRACT:MODE?	Vol.2, 10-36, 37 Vol.2, 10-238, 239

No.	Command	Page of manual
[6]	:SOURCE:TELECOM:MAPPING:TYPE :SOURCE:TELECOM:MAPPING:TYPE? :SENSE:TELECOM:MAPPING:TYPE :SENSE:TELECOM:MAPPING:TYPE? :SOURCE:TELECOM:MAPPING:AU :SOURCE:TELECOM:MAPPING:AU? :SENSE:TELECOM:MAPPING:AU :SENSE:TELECOM:MAPPING:AU? :SOURCE:TELECOM:MAPPING:STS :SOURCE:TELECOM:MAPPING:STS? :SENSE:TELECOM:MAPPING:STS :SENSE:TELECOM:MAPPING:STS? :SOURCE:TELECOM:MAPPING:TU :SOURCE:TELECOM:MAPPING:TU? :SENSE:TELECOM:MAPPING:TU :SENSE:TELECOM:MAPPING:TU? :SOURCE:TELECOM:MAPPING:VT :SOURCE:TELECOM:MAPPING:VT? :SENSE:TELECOM:MAPPING:VT :SENSE:TELECOM:MAPPING:VT?	Vol.2, 10-39, 40 Vol.2, 10-240, 242 Vol.2, 10-40, 41 Vol.2, 10-242 Vol.2, 10-41 Vol.2, 10-242, 243 Vol.2, 10-41, 42 Vol.2, 10-243 Vol.2, 10-42 Vol.2, 10-243
[7]	:SOURCE:TELECOM:MAPPING:MPAYLOAD:MODE :SOURCE:TELECOM:MAPPING:MPAYLOAD:MODE?	Vol.2, 10-45
[8]	:SOURCE:TELECOM:MAPPING:DUMMY :SOURCE:TELECOM:MAPPING:DUMMY?	Vol.2, 10-50, 51
[9]	:SOURCE:TELECOM:MUX:MRATE :SOURCE:TELECOM:MUX:MRATE? :SENSE:TELECOM:DEMUX:MRATE :SENSE:TELECOM:DEMUX:MRATE?	Vol.2, 10-56, 57 Vol.2, 10-247, 248
[10]	:SOURCE:TELECOM:FRAMING :SOURCE:TELECOM:FRAMING? :SENSE:TELECOM:FRAMING :SENSE:TELECOM:FRAMING?	Vol.2, 10-60 Vol.2, 10-253
[11]	:SOURCE:TELECOM:M2:MCHANNEL :SOURCE:TELECOM:M2:MCHANNEL? :SENSE:TELECOM:M2:MCHANNEL :SENSE:TELECOM:M2:MCHANNEL?	Vol.2, 10-61, 62 Vol.2, 10-256
[12]	:SOURCE:TELECOM:M2:CRC :SOURCE:TELECOM:M2:CRC? :SENSE:TELECOM:M2:CRC :SENSE:TELECOM:M2:CRC?	Vol.2, 10-60, 61 Vol.2, 10-254, 255
[13]	:SENSE:TELECOM:M2:SIGNaling :SENSE:TELECOM:M2:SIGNaling?	Vol.2, 10-255
[14]	:SOURCE:TELECOM:CLOCK:SOURCE :SOURCE:TELECOM:CLOCK:SOURCE?	Vol.2, 10-78

Section 2 Setup Main Screen

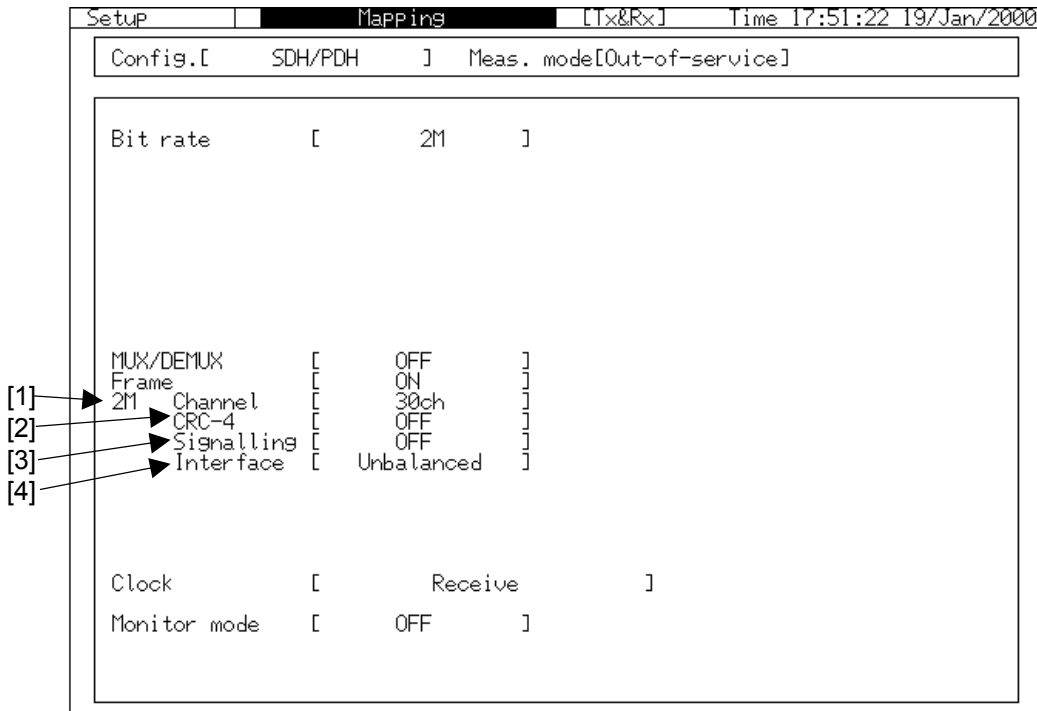
No.	Command	Page of manual
[15]	:INSTrument:COUPlE :INSTrument:COUPlE?	Vol.2, 10-8
[16]	:SENSe:TELEcom:MMODE :SENSe:TELEcom:MMODE?	Vol.2, 10-253, 254
[17]	:ROUte:STM64:INPut :ROUte:STM64:OUTPut? :ROUte:STM192:INPut :ROUte:STM192:OUTPut?	Vol.4, 6-60, 61 Vol.4, 6-60, 61
[18]	:SOURce:TELEcom:INSert:RATE :SOURce:TELEcom:INSert:RATE? :SENSe:TELEcom:EXTRact:RATE :SENSe:TELEcom:EXTRact:RATE?	Vol.2, 10-37 Vol.2, 10-239
[19]	:SOURce:TELEcom:INSert:CH :SOURce:TELEcom:INSert:CH?	Vol.2, 10-38
[20]	:SOURce:TELEcom:INSert:INTerface :SOURce:TELEcom:INSert:INTerface? :SENSe:TELEcom:EXTRact:INTerface :SENSe:TELEcom:EXTRact:INTerface?	Vol.2, 10-38, 39 Vol.2, 10-240
[21]	:SOURce:TELEcom:MAPPing:MPAYload:PAYload1:TYPE :SOURce:TELEcom:MAPPing:MPAYload:PAYload1:TYPE? :SOURce:TELEcom:MAPPing:MPAYload:PAYload1:TU :SOURce:TELEcom:MAPPing:MPAYload:PAYload1:TU? :SOURce:TELEcom:MAPPing:MPAYload:PAYload1:VT :SOURce:TELEcom:MAPPing:MPAYload:PAYload1:VT?	Vol.2, 10-46 Vol.2, 10-46, 47 Vol.2, 10-47
[22]	:SOURce:TELEcom:MAPPing:MPAYload:PAYload2:TYPE :SOURce:TELEcom:MAPPing:MPAYload:PAYload2:TYPE? :SOURce:TELEcom:MAPPing:MPAYload:PAYload2:TU :SOURce:TELEcom:MAPPing:MPAYload:PAYload2:TU? :SOURce:TELEcom:MAPPing:MPAYload:PAYload2:VT :SOURce:TELEcom:MAPPing:MPAYload:PAYload2:VT?	Vol.2, 10-47, 48 Vol.2, 10-48, 49 Vol.2, 10-49

2.1.2 Mapping Sub Screen (2)

Setup	MaPPing	[Tx/Rx]	Time 09:38:28 10/Sep/2001
Config.[SDH/PDH] Meas. mode[Out-of-service]			
Tx Bit rate [1.5M]			
[1]	MUX	[OFF]	
	Frame	[ON]	
[2]	1.5M Code	[B8ZS]	
	Framed	[D4]	
Clock [Internal] DSX [0ft]			
Rx Bit rate [1.5M]			
DEMUX			
	Frame	[ON]	
[3]	1.5M Code	[B8ZS]	
[4]	Framed	[D4]	
Monitor mode [OFF]			

No.	Command	Page of manual
[1]	:SOURCE:TELEcom:M1_5:CODE :SOURCE:TELEcom:M1_5:CODE?	Vol.2, 10-63
[2]	:SOURCE:TELEcom:M1_5:FRAMED :SOURCE:TELEcom:M1_5:FRAMED?	Vol.2, 10-63
[3]	:SENSE:TELEcom:M1_5:CODE :SENSE:TELEcom:M1_5:CODE?	Vol.2, 10-257, 258
[4]	:SENSE:TELEcom:M1_5:FRAMED :SENSE:TELEcom:M1_5:FRAMED?	Vol.2, 10-256, 257

2.1.3 Mapping Sub Screen (3)



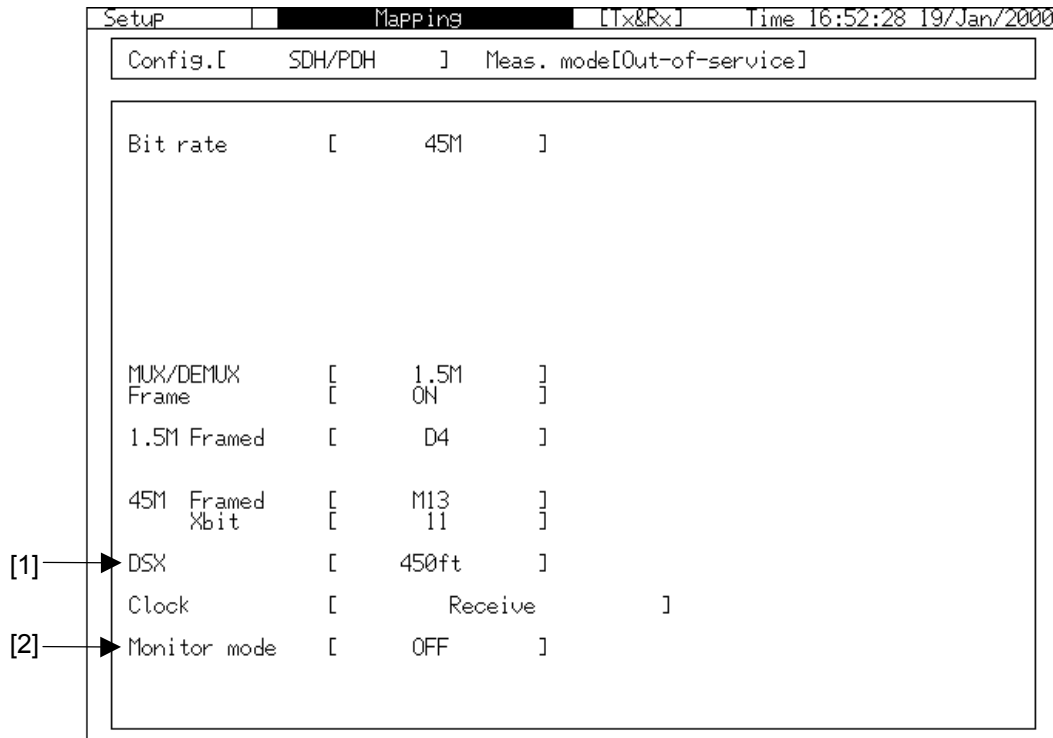
No.	Command	Page of manual
[1]	:SOURCE:TELEcom:M2:MCHannel :SOURCE:TELEcom:M2:MCHannel? :SENSE:TELEcom:M2:MCHannel :SENSE:TELEcom:M2:MCHannel?	Vol.2, 10-61, 62 Vol.2, 10-256
[2]	:SOURCE:TELEcom:M2:CRC :SOURCE:TELEcom:M2:CRC? :SENSE:TELEcom:M2:CRC :SENSE:TELEcom:M2:CRC?	Vol.2, 10-60, 61 Vol.2, 10-254, 255
[3]	:SENSE:TELEcom:M2:SIGNaling :SENSE:TELEcom:M2:SIGNaling?	Vol.2, 10-255
[4]	:ROUTE:INPut:SElect :ROUTE:INPut:SElect?	Vol.2, 10-436

2.1.4 Mapping Sub Screen (4)

Setup	Mapping	[Tx&Rx]	Time 16:10:45 19/Jan/2000
Config.[SDH/PDH] Meas. mode[Out-of-service]			
Bit rate	[9953M]	[Electrical]	
Insert/Extract	[OFF]		
Mapping	[STM64-AUG-AU4-VC4-TUG3-TU3-VC3-45M(Async.)]		
Mixed Payload	[OFF]		
Dummy STM	[Copy]		
MUX/DEMUX	[1.5M]		
Frame	[ON]		
1.5M Framed	[D4]		
[1] → 45M Framed	[M13]		
[2] → Xbit	[11]		
Clock	[Internal]		

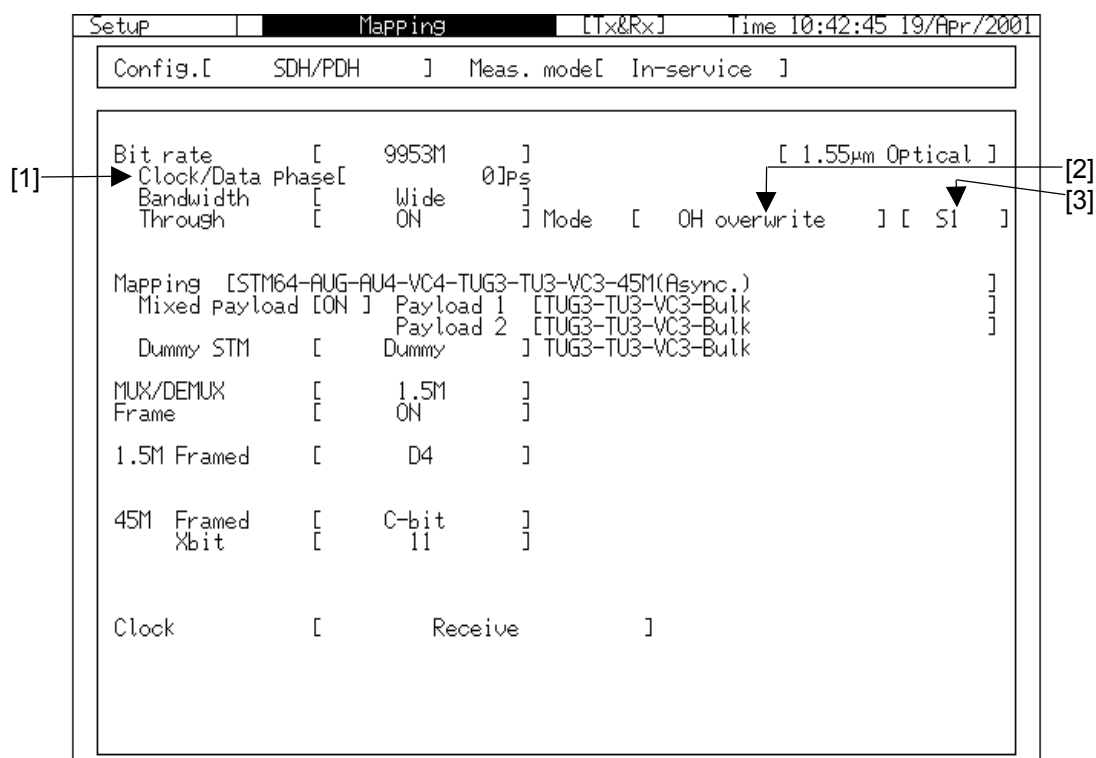
No.	Command	Page of manual
[1]	:SOURCE:TELEcom:M45:FRAMED :SOURCE:TELEcom:M45:FRAMED? :SENSE:TELEcom:M45:FRAMED :SENSE:TELEcom:M45:FRAMED?	Vol.2, 10-63 Vol.2, 10-258
[2]	:SOURCE:TELEcom:M45:XBIT :SOURCE:TELEcom:M45:XBIT?	Vol.2, 10-63, 64

2.1.5 Mapping Sub Screen (5)



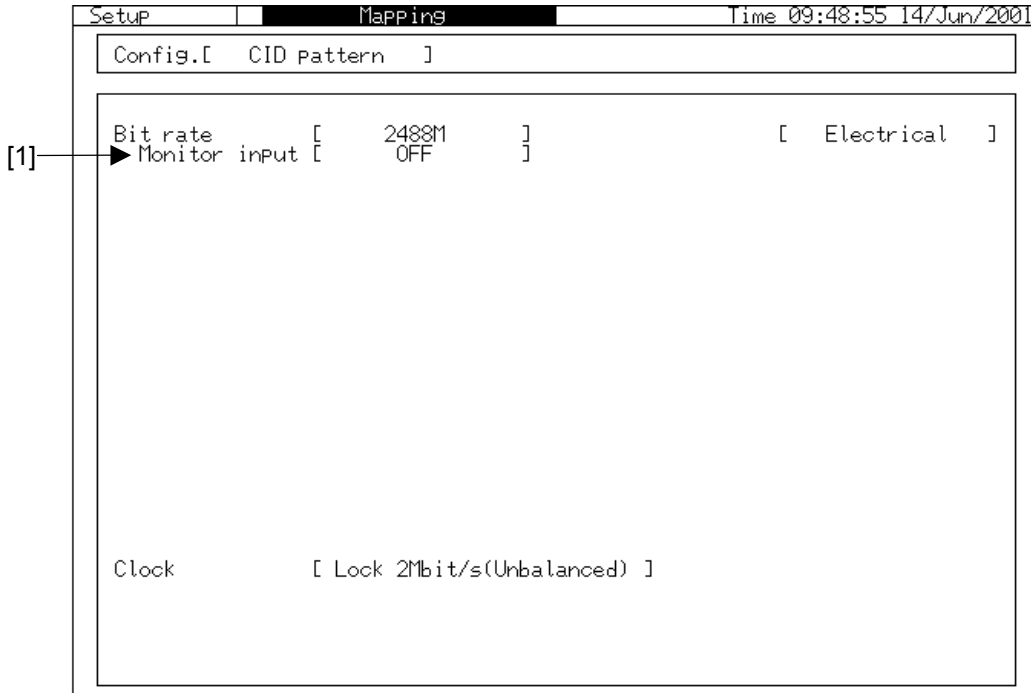
No.	Command	Page of manual
[1]	:SOURce:TELEcom:DSX :SOURce:TELEcom:DSX? :SENSe:TELEcom:DSX :SENSe:TELEcom:DSX?	Vol.2, 10-64 Vol.2, 10-259
[2]	:SENSe:TELEcom:IMODE :SENSe:TELEcom:IMODE?	Vol.2, 10-258, 259

2.1.6 Mapping Sub Screen (6)



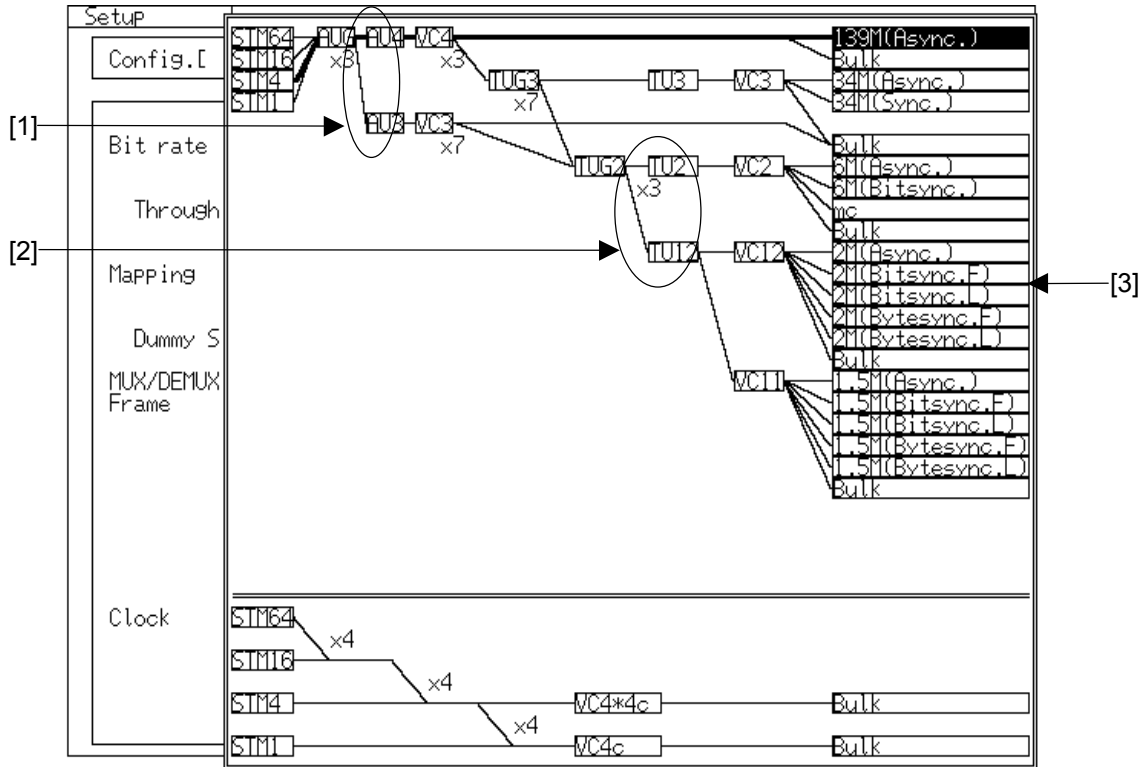
No.	Command	Page of manual
[1]	:SENSe:TELEcom:PHASe :SENSe:TELEcom:PHASe?	Vol.4, 6-41, 42
[2]	:ROUTE:THROUGH:MODE :ROUTE:THROUGH:MODE?	Vol.2, 10-437
[3]	:ROUTE:THROUGH:OH :ROUTE:THROUGH:OH?	Vol.2, 10-437, 438

2.1.7 Mapping Sub Screen (7)



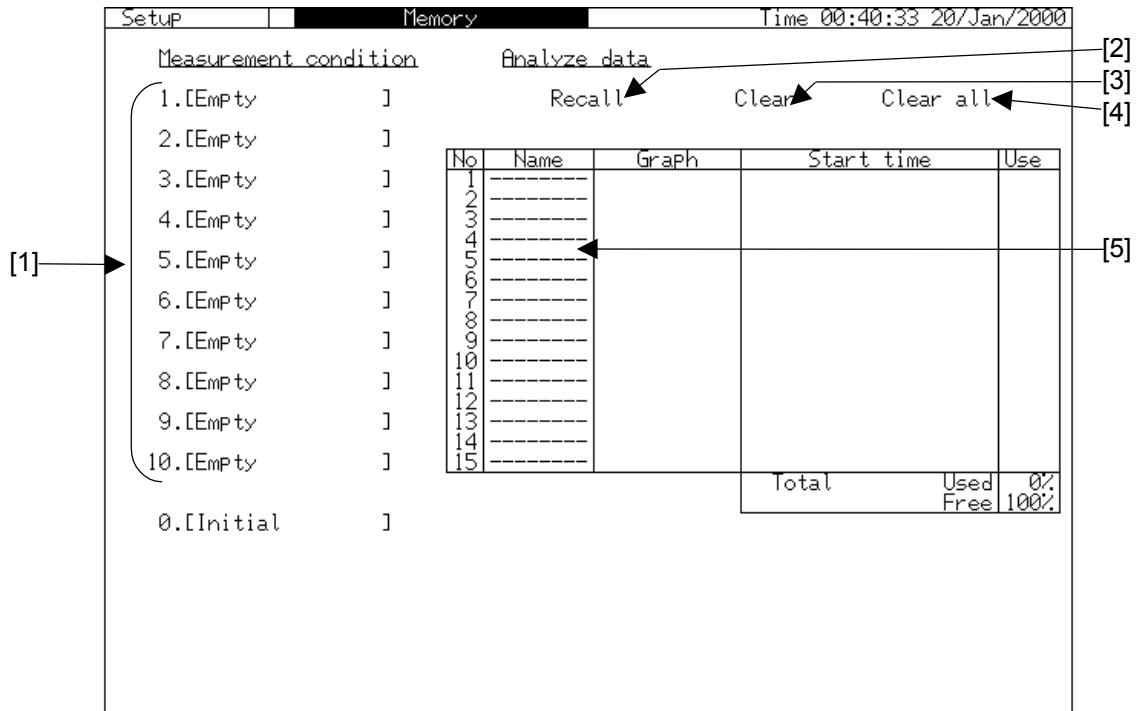
No.	Command	Page of manual
[1]	:SENSe:TELEcom:M2488:MPOInt :SENSe:TELEcom:M2488:MPOInt?	Vol.4, 6-40, 41

2.1.8 Mapping Sub Screen (8)



No.	Command	Page of manual
[1]	:SENSe:TELEcom:MAPPing:AU :SENSe:TELEcom:MAPPing:AU?	Vol.2, 10-242
[2]	:SENSe:TELEcom:MAPPing:TU :SENSe:TELEcom:MAPPing:TU?	Vol.2, 10-243
[3]	:SENSe:TELEcom:MAPPing:TYPE :SENSe:TELEcom:MAPPing:TYPE?	Vol.2, 10-240, 242

2.2 Memory Sub Screen



No.	Command	Page of manual
[1]	:SYSTem:MEMory:RECall :SYSTem:MEMory:STORE :SYSTem:MEMory:CLEar :SYSTem:MEMory:LABel	Vol.2, 10-508 Vol.2, 10-509
[2]	:SYSTem:MEMory:ANALysis:RECall	Vol.2, 10-510
[3]	:SYSTem:MEMory:ANALysis:CLEar	Vol.2, 10-511
[4]	:SYSTem:MEMory:ANALysis:AClear	Vol.2, 10-511
[5]	:SYSTem:MEMory:ANALysis:LABel? :SYSTem:MEMory:ANALysis:STORE	Vol.2, 10-510 Vol.2, 10-511

2.3 Print Sub Screen

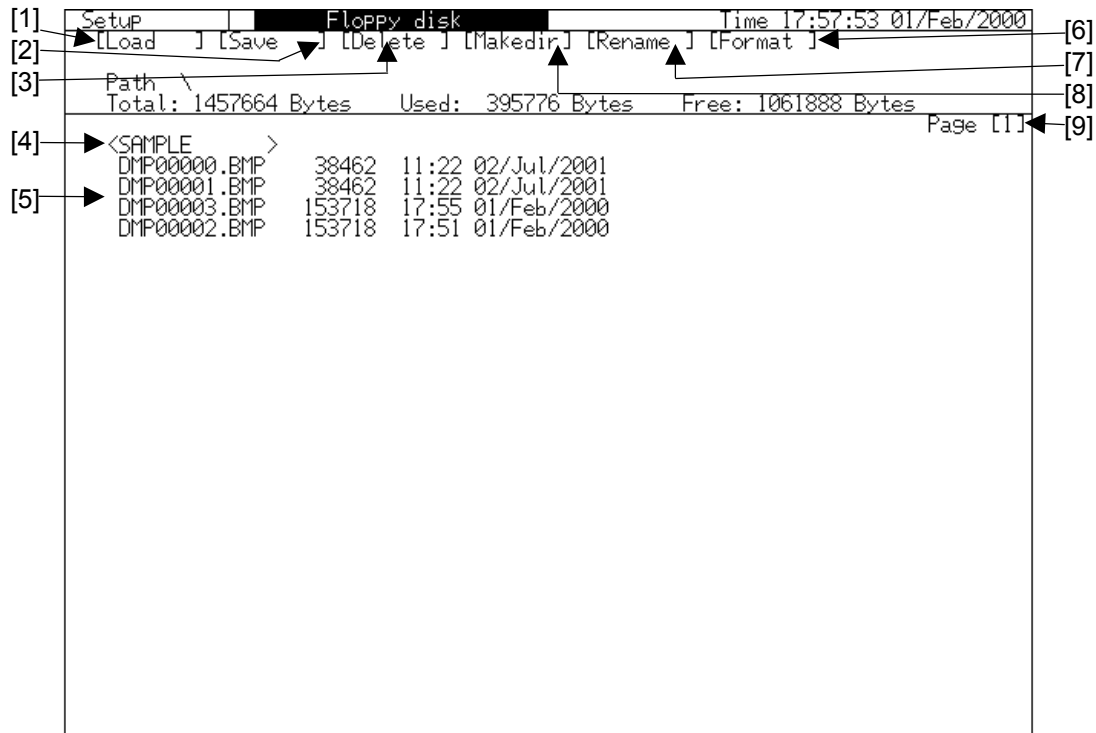
Setup	Print	Time 15:25:16 20/Jan/2000
[1] →	Intermediate data [OFF]	
	Print items	
[2] →	Measuring condition [OFF]	
[3] →	Error occurrence [ON]	
[4] →	Unit [Count]	
[5] →	Threshold [OFF]	
[6] →	Paper saving [OFF]	
[7] →	Alarm occurrence [ON]	
[8] →	Last data [ON]	
[9] →	Error [ON]	
[10] →	Alarm [ON]	
[11] →	Performance [ON]	
[12] →	Justification [ON]	

No.	Command	Page of manual
[1]	:SYSTem:PRINt:IDATa[:TYPE] :SYSTem:PRINt:IDATa[:TYPE]? :SYSTem:PRINt:IDATa:PERiod :SYSTem:PRINt:IDATa:PERiod?	Vol.2, 10-501 Vol.2, 10-501, 502
[2]	:SYSTem:PRINt:MCONdition :SYSTem:PRINt:MCONdition?	Vol.2, 10-502
[3]	:SYSTem:PRINt:ERRor:SET :SYSTem:PRINt:ERRor:SET?	Vol.2, 10-502
[4]	:SYSTem:PRINt:ERRor:TYPE :SYSTem:PRINt:ERRor:TYPE?	Vol.2, 10-503
[5]	:SYSTem:PRINt:ERRor:THReshold:EC :SYSTem:PRINt:ERRor:THReshold:EC? :SYSTem:PRINt:ERRor:THReshold:ER :SYSTem:PRINt:ERRor:THReshold:ER?	Vol.2, 10-503 Vol.2, 10-504
[6]	:SYSTem:PRINt:ERRor:SQUelch :SYSTem:PRINt:ERRor:SQUelch?	Vol.2, 10-504
[7]	:SYSTem:PRINt:ALARm:SET :SYSTem:PRINt:ALARm:SET?	Vol.2, 10-505
[8]	:SYSTem:PRINt:LDATEa:SET :SYSTem:PRINt:LDATEa:SET?	Vol.2, 10-505
[9]	:SYSTem:PRINt:LDATEa:ERRor :SYSTem:PRINt:LDATEa:ERRor?	Vol.2, 10-506

Section 2 Setup Main Screen

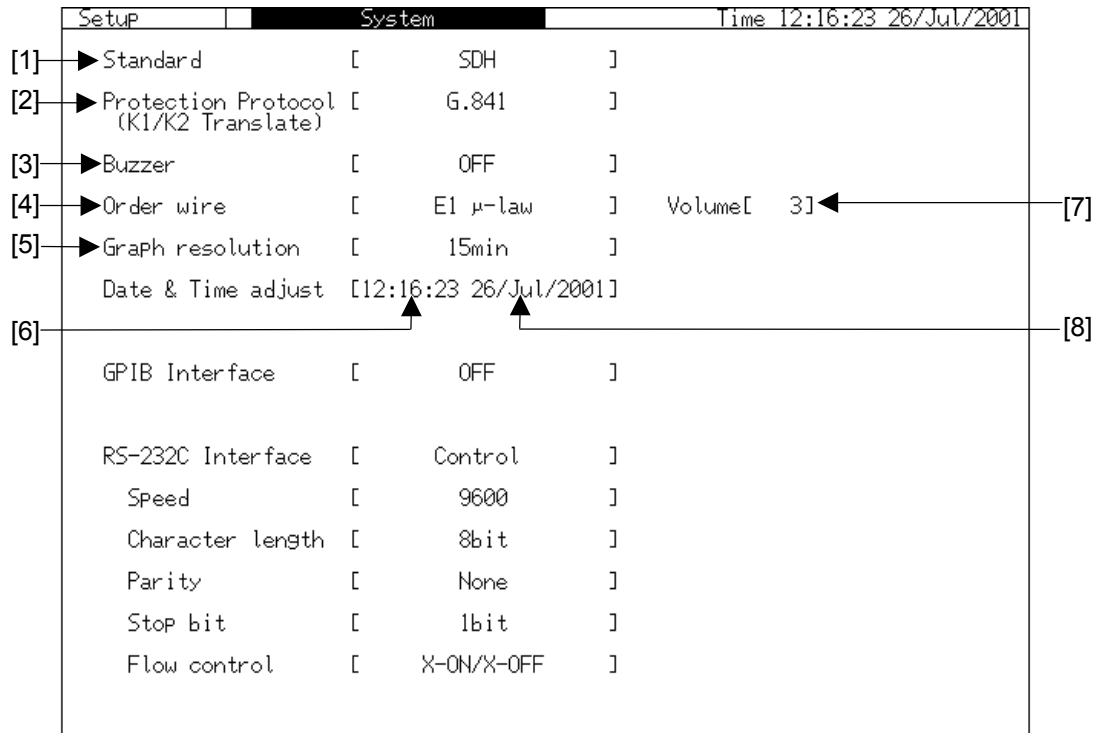
No.	Command	Page of manual
[10]	:SYSTem:PRINt:LDATa:ALARm :SYSTem:PRINt:LDATa:ALARm?	Vol.2, 10-506
[11]	:SYSTem:PRINt:LDATa:PERFormance :SYSTem:PRINt:LDATa:PERFormance?	Vol.2, 10-507
[12]	:SYSTem:PRINt:LDATa:JUSTificat :SYSTem:PRINt:LDATa:JUSTificat?	Vol.2, 10-507, 508

2.4 Floppy Disk Sub Screen



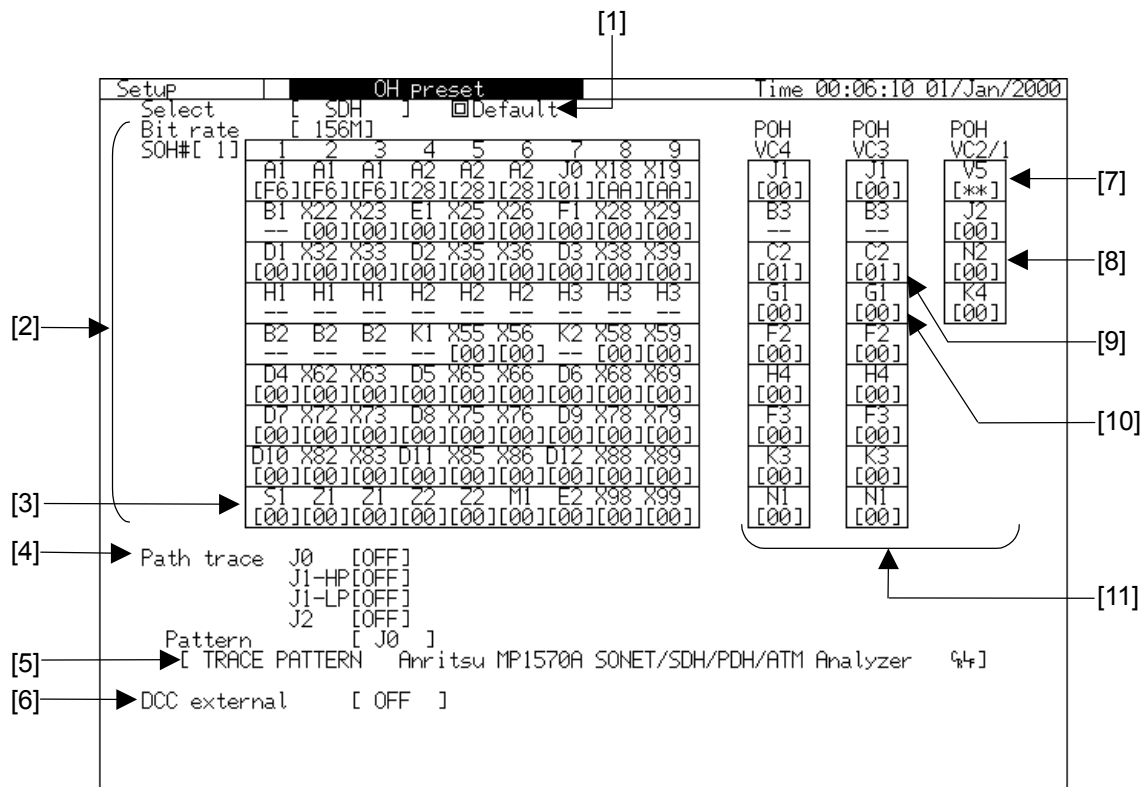
No.	Command	Page of manual
[1]	:SYSTem:MMEMory:RECall	Vol.2, 10-511
[2]	:SYSTem:MMEMory:STORe	Vol.2, 10-512
[3]	:SYSTem:MMEMory:DELeTe	Vol.2, 10-513
[4]	:SYSTem:MMEMory:CDIRectory	Vol.2, 10-515
[5]	:SYSTem:MMEMory:CATalog?	Vol.2, 10-514
[6]	:SYSTem:MMEMory:INITialize	Vol.2, 10-513
[7]	:SYSTem:MMEMory:REName	Vol.2, 10-513
[8]	:SYSTem:MMEMory:MDIRectory	Vol.2, 10-513
[9]	:DISPlay:SETup:FDPage :DISPlay:SETup:FDPage?	Vol.2, 10-431, 432

2.5 System Sub Screen



No.	Command	Page of manual
[1]	:INSTrument:STANdard :INSTrument:STANdard?	Vol.2, 10-8, 9
[2]	:SYSTem:PROTection :SYSTem:PROTection?	Vol.2, 10-515
[3]	:SYSTem:BUZZer :SYSTem:BUZZer?	Vol.2, 10-520
[4]	:SYSTem:ORDeRwire:TYPE :SYSTem:ORDeRwire:TYPE?	Vol.2, 10-515, 516
[5]	:SENSe:MEASure:GRESolution :SENSe:MEASure:GRESolution?	Vol.2, 10-264, 265
[6]	:SYSTem:TIME :SYSTem:TIME?	Vol.2, 10-520
[7]	:SYSTem:ORDeRwire:TYPE :SYSTem:ORDeRwire:TYPE?	Vol.2, 10-515, 516
[8]	:SYSTem:DATE :SYSTem:DATE?	Vol.2, 10-519, 520

2.6 OH Preset Sub Screen



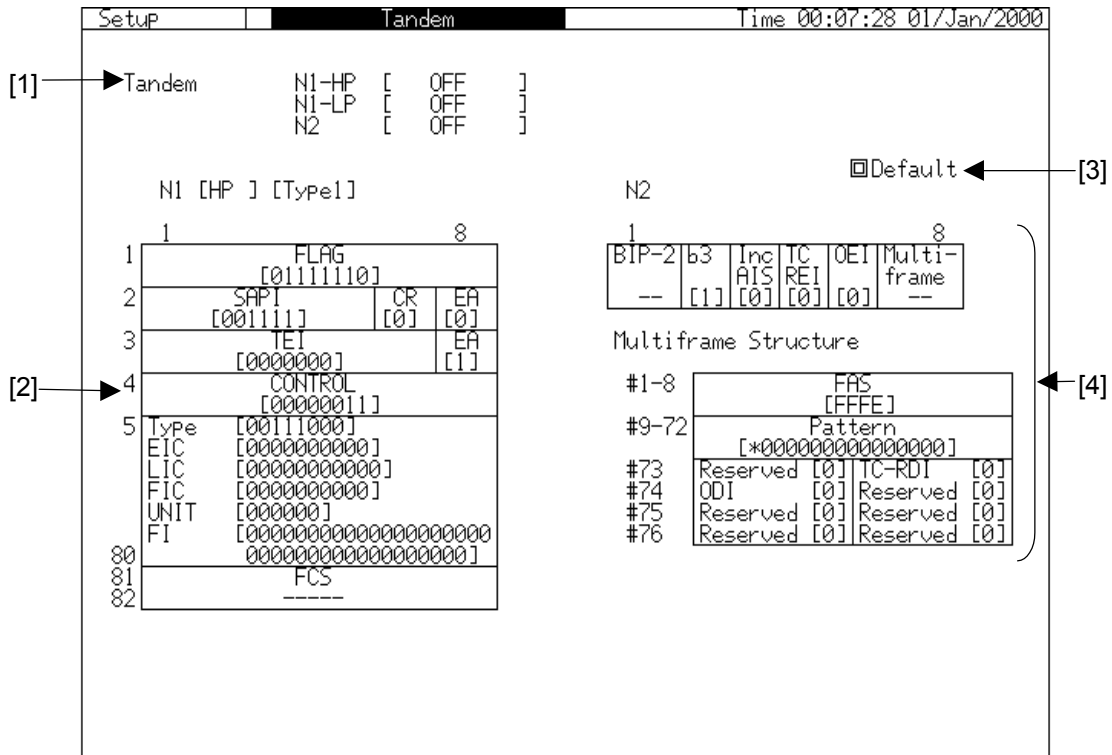
No.	Command	Page of manual
[1]	:SOURCE:TELEcom:OHPReset:DEFault	Vol.2, 10-114
[2]	:SOURCE:TELEcom:OHPReset:SOHPattern :SOURCE:TELEcom:OHPReset:TOHPattern? :SOURCE:TELEcom:OHPReset:TOHPattern?	Vol.2, 10-107, 108
[3]	:SOURCE:TELEcom:OHPReset:SSMessage :SOURCE:TELEcom:OHPReset:SSMessage?	Vol.2, 10-108
[4]	:SOURCE:TELEcom:OHPReset:PTCondition :SOURCE:TELEcom:OHPReset:PTCondition?	Vol.2, 10-114
[5]	:SOURCE:TELEcom:OHPReset:PTData :SOURCE:TELEcom:OHPReset:PTData?	Vol.2, 10-115
[6]	:SOURCE:TELEcom:OHPReset:DEXTernal :SOURCE:TELEcom:OHPReset:DEXTernal?	Vol.2, 10-115
[7]	:SOURCE:TELEcom:OHPReset:VLAbel :SOURCE:TELEcom:OHPReset:VLAbel?	Vol.2, 10-112
[8]	:SOURCE:TELEcom:OHPReset:KLAbel :SOURCE:TELEcom:OHPReset:KLAbel? :SOURCE:TELEcom:OHPReset:ZLAbel :SOURCE:TELEcom:OHPReset:ZLAbel?	Vol.2, 10-113

Section 2 Setup Main Screen

No.	Command	Page of manual
[9]	:SOURce:TELEcom:OHPReset:SLABel :SOURce:TELEcom:OHPReset:SLABel? :SOURce:TELEcom:OHPReset:PLABel :SOURce:TELEcom:OHPReset:PLABel?	Vol.2, 10-111
[10]	:SOURce:TELEcom:OHPReset:GLABel :SOURce:TELEcom:OHPReset:GLABel?	Vol.2, 10-112, 113
[11]	:SOURce:TELEcom:OHPReset:POHPattern :SOURce:TELEcom:OHPReset:POHPattern?	Vol.2, 10-110

2.7 Tandem Sub Screen

2.7.1 Tandem Sub Screen (1)

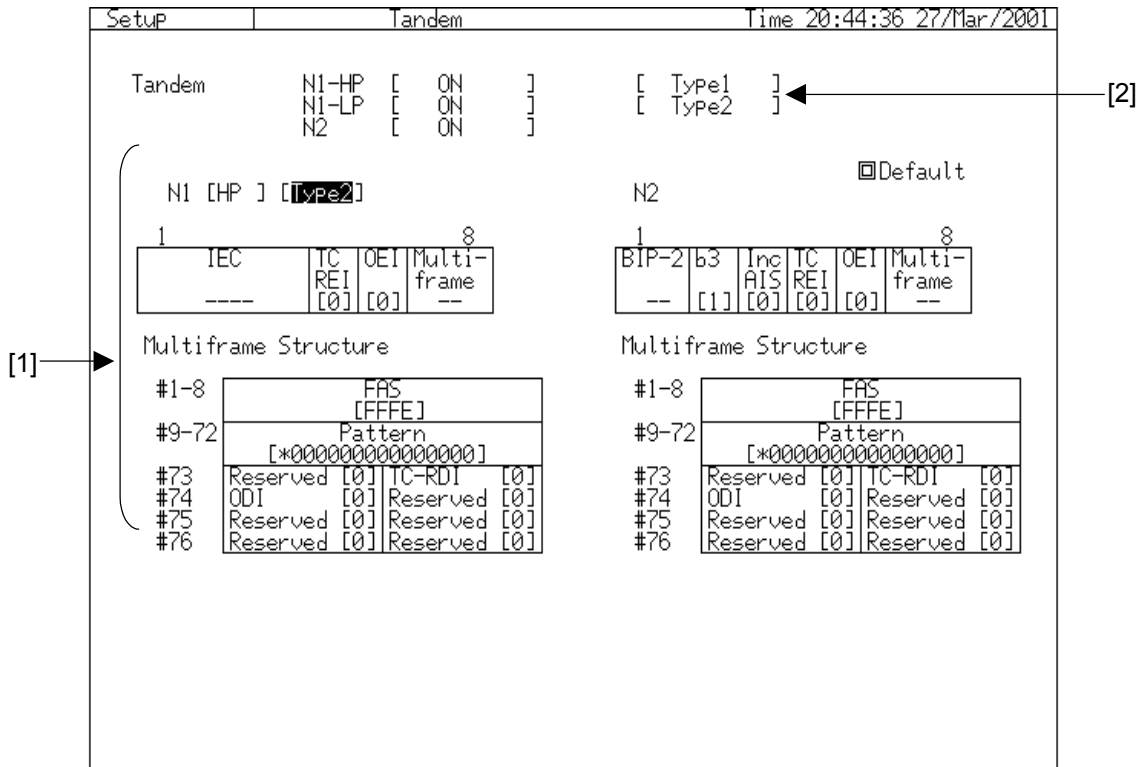


No.	Command	Page of manual
[1]	:SOURCE:TELEcom:TANDem:CONDition:N1HP:MODE :SOURCE:TELEcom:TANDem:CONDition:N1HP:MODE? :SOURCE:TELEcom:TANDem:CONDition:N1LP:MODE :SOURCE:TELEcom:TANDem:CONDition:N1LP:MODE? :SOURCE:TELEcom:TANDem:CONDition:N2:MODE :SOURCE:TELEcom:TANDem:CONDition:N2:MODE? :SOURCE:TELEcom:TANDem:CONDition:Z5HP:MODE :SOURCE:TELEcom:TANDem:CONDition:Z5HP:MODE? :SOURCE:TELEcom:TANDem:CONDition:Z5LP:MODE :SOURCE:TELEcom:TANDem:CONDition:Z5LP:MODE? :SOURCE:TELEcom:TANDem:CONDition:Z6:MODE :SOURCE:TELEcom:TANDem:CONDition:Z6:MODE?	Vol.2, 10-51, 52
[2]	:SOURCE:TELEcom:TANDem:N1HP:TYPE1 :SOURCE:TELEcom:TANDem:N1HP:TYPE1? :SOURCE:TELEcom:TANDem:Z5HP:TYPE1 :SOURCE:TELEcom:TANDem:Z5HP:TYPE1?	Vol.2, 10-53
[3]	:SOURCE:TELEcom:TANDem:DEFault	Vol.2, 10-53

Section 2 Setup Main Screen

No.	Command	Page of manual
[4]	:SOURce:TELEcom:TANDem:N2 :SOURce:TELEcom:TANDem:N2? :SOURce:TELEcom:TANDem:Z6 :SOURce:TELEcom:TANDem:Z6?	Vol.2, 10-55, 56

2.7.2 Tandem Sub Screen (2)



No.	Command	Page of manual
[1]	:SOURCE:TELEcom:TANDem:N1HP:TYPE2 :SOURCE:TELEcom:TANDem:N1HP:TYPE2? :SOURCE:TELEcom:TANDem:Z5HP:TYPE2 :SOURCE:TELEcom:TANDem:Z5HP:TYPE2? :SOURCE:TELEcom:TANDem:N1LP:TYPE2 :SOURCE:TELEcom:TANDem:N1LP:TYPE2? :SOURCE:TELEcom:TANDem:Z5LP:TYPE2 :SOURCE:TELEcom:TANDem:Z5LP:TYPE2?	Vol.2, 10-54, 55
[2]	:SOURCE:TELEcom:TANDem:CONDition:N1HP:TYPE :SOURCE:TELEcom:TANDem:CONDition:N1HP:TYPE? :SOURCE:TELEcom:TANDem:CONDition:N1LP:TYPE :SOURCE:TELEcom:TANDem:CONDition:N1LP:TYPE? :SOURCE:TELEcom:TANDem:CONDition:Z5HP:TYPE :SOURCE:TELEcom:TANDem:CONDition:Z5HP:TYPE? :SOURCE:TELEcom:TANDem:CONDition:Z5LP:TYPE :SOURCE:TELEcom:TANDem:CONDition:Z5LP:TYPE?	Vol.2, 10-52

2.8 Dummy Preset Sub Screen

No.	Command	Page of manual
[1]	:SOURce:TELEcom:DPReset:DEFAult	Vol.2, 10-91
[2]	:SOURce:TELEcom:DPReset:SLABel :SOURce:TELEcom:DPReset:SLABel? :SOURce:TELEcom:DPReset:PLABel :SOURce:TELEcom:DPReset:PLABel?	Vol.2, 10-87, 88
[3]	:SOURce:TELEcom:DPReset:GLABel :SOURce:TELEcom:DPReset:GLABel?	Vol.2, 10-89, 90
[4]	:SOURce:TELEcom:DPReset:POHPattern :SOURce:TELEcom:DPReset:POHPattern?	Vol.2, 10-87
[5]	:SOURce:TELEcom:DPReset:PTCondition :SOURce:TELEcom:DPReset:PTCondition?	Vol.2, 10-95, 96
[6]	:SOURce:TELEcom:DPReset:PTData :SOURce:TELEcom:DPReset:PTData?	Vol.2, 10-96
[7]	:SOURce:TELEcom:DPReset:DUMMy :SOURce:TELEcom:DPReset:DUMMy?	Vol.2, 10-98
[8]	:SOURce:TELEcom:DPReset:MPAYLoad:PAYLoad1 :SOURce:TELEcom:DPReset:MPAYLoad:PAYLoad1?	Vol.2, 10-97
[9]	:SOURce:TELEcom:DPReset:MPAYLoad:PAYLoad2 :SOURce:TELEcom:DPReset:MPAYLoad:PAYLoad2?	Vol.2, 10-97
[10]	:SOURce:TELEcom:DPReset:VLABel :SOURce:TELEcom:DPReset:VLABel?	Vol.2, 10-89

No.	Command	Page of manual
[11]	:SOURCE:TELECOM:DPRESET:KLABEL :SOURCE:TELECOM:DPRESET:KLABEL? :SOURCE:TELECOM:DPRESET:ZLABEL :SOURCE:TELECOM:DPRESET:ZLABEL?	Vol.2, 10-90, 91
[12]	:SOURCE:TELECOM:DPRESET:TANDEM:CONDITION:N1HP:TYPE :SOURCE:TELECOM:DPRESET:TANDEM:CONDITION:N1HP:TYPE? :SOURCE:TELECOM:DPRESET:TANDEM:CONDITION:N1LP:TYPE :SOURCE:TELECOM:DPRESET:TANDEM:CONDITION:N1LP:TYPE? :SOURCE:TELECOM:DPRESET:TANDEM:CONDITION:Z5HP:TYPE :SOURCE:TELECOM:DPRESET:TANDEM:CONDITION:Z5HP:TYPE? :SOURCE:TELECOM:DPRESET:TANDEM:CONDITION:Z5LP:TYPE :SOURCE:TELECOM:DPRESET:TANDEM:CONDITION:Z5LP:TYPE?	Vol.2, 10-92, 93
[13]	:SOURCE:TELECOM:DPRESET:TANDEM:CONDITION:N1HP:MODE :SOURCE:TELECOM:DPRESET:TANDEM:CONDITION:N1HP:MODE? :SOURCE:TELECOM:DPRESET:TANDEM:CONDITION:N1LP:MODE :SOURCE:TELECOM:DPRESET:TANDEM:CONDITION:N1LP:MODE? :SOURCE:TELECOM:DPRESET:TANDEM:CONDITION:N2:MODE :SOURCE:TELECOM:DPRESET:TANDEM:CONDITION:N2:MODE? :SOURCE:TELECOM:DPRESET:TANDEM:CONDITION:Z5HP:MODE :SOURCE:TELECOM:DPRESET:TANDEM:CONDITION:Z5HP:MODE? :SOURCE:TELECOM:DPRESET:TANDEM:CONDITION:Z5LP:MODE :SOURCE:TELECOM:DPRESET:TANDEM:CONDITION:Z5LP:MODE? :SOURCE:TELECOM:DPRESET:TANDEM:CONDITION:Z6:MODE :SOURCE:TELECOM:DPRESET:TANDEM:CONDITION:Z6:MODE?	Vol.2, 10-91
[14]	:SOURCE:TELECOM:DPRESET:TANDEM:N1HP:TYPE1 :SOURCE:TELECOM:DPRESET:TANDEM:N1HP:TYPE1? :SOURCE:TELECOM:DPRESET:TANDEM:Z5HP:TYPE1 :SOURCE:TELECOM:DPRESET:TANDEM:Z5HP:TYPE1? :SOURCE:TELECOM:DPRESET:TANDEM:N1HP:TYPE2 :SOURCE:TELECOM:DPRESET:TANDEM:N1HP:TYPE2? :SOURCE:TELECOM:DPRESET:TANDEM:Z5HP:TYPE2 :SOURCE:TELECOM:DPRESET:TANDEM:Z5HP:TYPE2? :SOURCE:TELECOM:DPRESET:TANDEM:N1LP:TYPE2 :SOURCE:TELECOM:DPRESET:TANDEM:N1LP:TYPE2? :SOURCE:TELECOM:DPRESET:TANDEM:Z5LP:TYPE2 :SOURCE:TELECOM:DPRESET:TANDEM:Z5LP:TYPE2?	Vol.2, 10-93, 94
[15]	:SOURCE:TELECOM:DPRESET:TANDEM:N2 :SOURCE:TELECOM:DPRESET:TANDEM:N2? :SOURCE:TELECOM:DPRESET:TANDEM:Z6 :SOURCE:TELECOM:DPRESET:TANDEM:Z6?	Vol.2, 10-95

2.9 Measurement Condition Sub Screen

The screenshot shows the 'Measurement condition' screen with the following elements:

- [1]**: Alarm Section/Line table with columns Meas., Det., and Rem. for LOS, LOP, OOF, AIS, and RDI.
- [2]**: STS Path table with columns Meas., Det., and Rem. for AIS, LOP, RDI, and PLM.
- [3]**: VT Path table with columns Meas., Det., and Rem. for AIS, LOP, RDI, PLM, RFI, LOM, TIM, and UNEQ.
- [4]**: Tandem Z5-HP and Z5-LP settings (OFF).
- [5]**: Tandem Z6 settings (OFF).
- [6]**: VC-AIS, ISF, FAS, IncAIS, TC-RDI, and ODI settings for both HP and LP paths.
- [7]**: Mask condition (ON) with a note: "Only highest ranking alarm is displayed. Lower ranking alarms and errors are masked."
- [8]**: PLM Detection Pattern (HP [Manual] [00], LP [Manual] [00]).
- [9]**: Error Bit error (ON).
- [10]**: LOP Detection (Without SS bit).
- [11]**: Performance Recommendation (G.826) and Frame (2M).
- [12]**: Trigger output (OFF).

No.	Command	Page of manual
[1]	:SENSe:MEASure:ALARm:SECTIon:MEAS :SENSe:MEASure:ALARm:SECTIon:MEAS?	Vol.2, 10-265
[2]	:SENSe:MEASure:ALARm:SECTIon:DETEction :SENSe:MEASure:ALARm:SECTIon:DETEction?	Vol.2, 10-266
[3]	:SENSe:MEASure:ALARm:HP:MEAS :SENSe:MEASure:ALARm:HP:MEAS?	Vol.2, 10-267
[4]	:SENSe:MEASure:TANDem:N1HP:MODE :SENSe:MEASure:TANDem:N1HP:MODE? :SENSe:MEASure:TANDem:Z5HP:MODE :SENSe:MEASure:TANDem:Z5HP:MODE?	Vol.2, 10-272, 273
[5]	:SENSe:MEASure:TANDem:N1LP:MODE :SENSe:MEASure:TANDem:N1LP:MODE? :SENSe:MEASure:TANDem:Z5LP:MODE :SENSe:MEASure:TANDem:Z5LP:MODE?	Vol.2, 10-272, 273
[6]	:SENSe:MEASure:TANDem:HP:MEAS :SENSe:MEASure:TANDem:HP:MEAS?	Vol.2, 10-274
[7]	:SENSe:MEASure:TANDem:HP:DETEction :SENSe:MEASure:TANDem:HP:DETEction?	Vol.2, 10-274, 275
[8]	:SENSe:MEASure:TANDem:HP:REMOve :SENSe:MEASure:TANDem:HP:REMOve?	Vol.2, 10-275

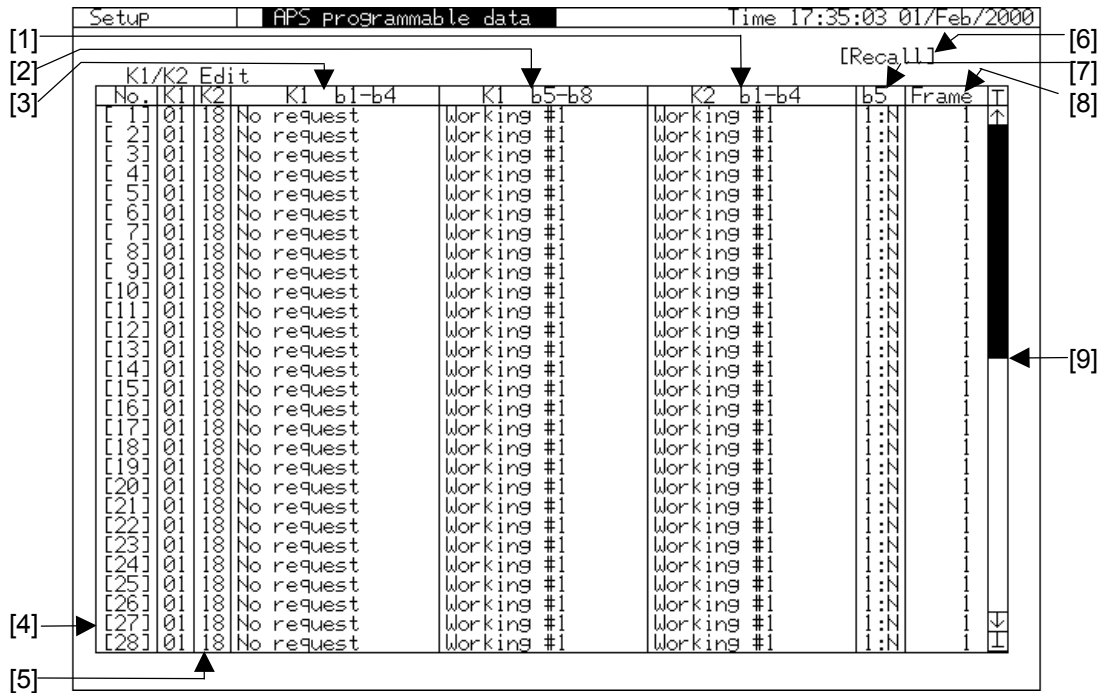
No.	Command	Page of manual
[9]	:SENSe:MEASure:ALARm:MASK :SENSe:MEASure:ALARm:MASK?	Vol.2, 10-272
[10]	:SENSe:MEASure:SLM:DETection:HP:MODE :SENSe:MEASure:SLM:DETection:HP:MODE? :SENSe:MEASure:PLM:DETection:HP:MODE :SENSe:MEASure:PLM:DETection:HP:MODE?	Vol.2, 10-277, 278
[11]	:SENSe:MEASure:SLM:DETection:LP:MODE :SENSe:MEASure:SLM:DETection:LP:MODE? :SENSe:MEASure:PLM:DETection:LP:MODE :SENSe:MEASure:PLM:DETection:LP:MODE?	Vol.2, 10-277, 278
[12]	:SENSe:MEASure:BERRor :SENSe:MEASure:BERRor?	Vol.2, 10-262
[13]	:SENSe:MEASure:LOPDetection :SENSe:MEASure:LOPDetection?	Vol.2, 10-279
[14]	:CALCulate:TELEcom:PERFormance:TYPE :CALCulate:TELEcom:PERFormance:TYPE?	Vol.2, 10-447
[15]	:SYSTem:TRIGgerout :SYSTem:TRIGgerout?	Vol.2, 10-521, 522
[16]	:SENSe:MEASure:ALARm:HP:MEAS :SENSe:MEASure:ALARm:HP:MEAS?	Vol.2, 10-267
[17]	:SENSe:MEASure:ALARm:HP:DETection :SENSe:MEASure:ALARm:HP:DETection?	Vol.2, 10-268
[18]	:SENSe:MEASure:ALARm:HP:REMOve :SENSe:MEASure:ALARm:HP:REMOve?	Vol.2, 10-268, 269
[19]	:SENSe:MEASure:ALARm:LP:REMOve :SENSe:MEASure:ALARm:LP:REMOve?	Vol.2, 10-271
[20]	:SENSe:MEASure:ALARm:LP:DETection :SENSe:MEASure:ALARm:LP:DETection?	Vol.2, 10-270
[21]	:SENSe:MEASure:ALARm:LP:MEAS :SENSe:MEASure:ALARm:LP:MEAS?	Vol.2, 10-269, 270
[22]	:SENSe:MEASure:TANDem:N1HP:TYPE :SENSe:MEASure:TANDem:N1HP:TYPE? :SENSe:MEASure:TANDem:Z5HP:TYPE :SENSe:MEASure:TANDem:Z5HP:TYPE?	Vol.2, 10-273
[23]	:SENSe:MEASure:TANDem:N1LP:TYPE :SENSe:MEASure:TANDem:N1LP:TYPE? :SENSe:MEASure:TANDem:Z5LP:TYPE :SENSe:MEASure:TANDem:Z5LP:TYPE?	Vol.2, 10-273
[24]	:SENSe:MEASure:TANDem:N2:MODE :SENSe:MEASure:TANDem:N2:MODE? :SENSe:MEASure:TANDem:Z6:MODE :SENSe:MEASure:TANDem:Z6:MODE?	Vol.2, 10-272, 273
[25]	:SENSe:MEASure:TANDem:LP:REMOve :SENSe:MEASure:TANDem:LP:REMOve?	Vol.2, 10-277

Section 2 Setup Main Screen

No.	Command	Page of manual
[26]	:SENSe:MEASure:TANDem:LP:DETection :SENSe:MEASure:TANDem:LP:DETection?	Vol.2, 10-276, 277
[27]	:SENSe:MEASure:TANDem:LP:MEAS :SENSe:MEASure:TANDem:LP:MEAS?	Vol.2, 10-276
[28]	:SENSe:MEASure:SLM:DETection:HP:PATtern :SENSe:MEASure:SLM:DETection:HP:PATtern? :SENSe:MEASure:PLM:DETection:HP:PATtern :SENSe:MEASure:PLM:DETection:HP:PATtern?	Vol.2, 10-278
[29]	:SENSe:MEASure:SLM:DETection:LP:PATtern :SENSe:MEASure:SLM:DETection:LP:PATtern? :SENSe:MEASure:PLM:DETection:LP:PATtern :SENSe:MEASure:PLM:DETection:LP:PATtern?	Vol.2, 10-278, 279
[30]	:CALCulate:TELEcom:PERFormance:FRAMe :CALCulate:TELEcom:PERFormance:FRAMe?	Vol.2, 10-447, 448

2.10 APS Programmable Data Sub Screen

2.10.1 APS Programmable Data Sub Screen (1)



No.	Command	Page of manual
[1]	:SOURCE:TELEcom:APROgram:MSPMessages:BRIDGe :SOURCE:TELEcom:APROgram:MSPMessages:BRIDGe?	Vol.2, 10-101
[2]	:SOURCE:TELEcom:APROgram:MSPMessages:CHANnel :SOURCE:TELEcom:APROgram:MSPMessages:CHANnel?	Vol.2, 10-100, 101
[3]	:SOURCE:TELEcom:APROgram:MSPMessages:REQuest :SOURCE:TELEcom:APROgram:MSPMessages:REQuest?	Vol.2, 10-99, 100
[4]	:SOURCE:TELEcom:APROgram:PROGram :SOURCE:TELEcom:APROgram:PROGram?	Vol.2, 10-105, 106
[5]	:SOURCE:TELEcom:APROgram:MSPMessages:REServed :SOURCE:TELEcom:APROgram:MSPMessages:REServed?	Vol.2, 10-102, 103
[6]	:SOURCE:TELEcom:APROgram:DEFault :SOURCE:TELEcom:APROgram:CAPTured :SOURCE:TELEcom:APROgram:COPIY	Vol.2, 10-98
[7]	:SOURCE:TELEcom:APROgram:MSPMessages:ARCHitect :SOURCE:TELEcom:APROgram:MSPMessages:ARCHitect?	Vol.2, 10-102
[8]	:SOURCE:TELEcom:APROgram:FRAMe :SOURCE:TELEcom:APROgram:FRAMe?	Vol.2, 10-105
[9]	:DISPlay:SETup:APS:SCRoll	Vol.2, 10-433

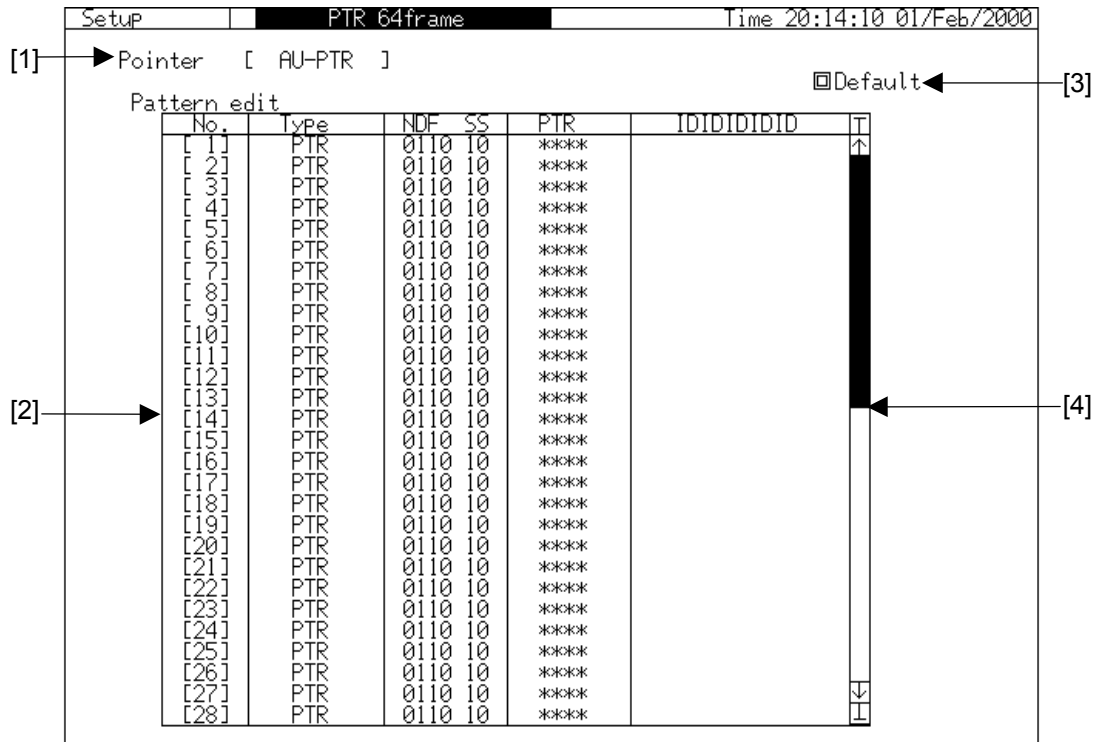
2.10.2 APS Programmable Data Sub Screen (2)

The screenshot shows a terminal window titled "Setup" with a sub-header "APS programmable data" and a timestamp "Time 17:41:25 01/Feb/2000". The main content is a table with columns: No., K1/K2, Edit, K1, b1-b4, K1 b5-b8, K2 b1-b4, K2 b5, K2 b6-b8, Frame, and T. The table contains 28 rows of data. Callouts [1] through [6] point to specific elements: [1] points to the title bar, [2] to the "Edit" column, [3] to the "K1" column, [4] to the "K1" column, [5] to the "[Recall]" button, and [6] to the "T" column.

No.	K1/K2	Edit	K1	b1-b4	K1 b5-b8	K2 b1-b4	K2 b5	K2 b6-b8	Frame	T
[1]	01	00	00				Long	Idle	1	↑
[2]	01	00	00		1		Long	Idle	1	
[3]	01	00	00		1		Long	Idle	1	
[4]	01	00	00		1		Long	Idle	1	
[5]	01	00	00		1		Long	Idle	1	
[6]	01	00	00		1		Long	Idle	1	
[7]	01	00	00		1		Long	Idle	1	
[8]	01	00	00		1		Long	Idle	1	
[9]	01	00	00		1		Long	Idle	1	
[10]	01	00	00		1		Long	Idle	1	
[11]	01	00	00		1		Long	Idle	1	
[12]	01	00	00		1		Long	Idle	1	
[13]	01	00	00		1		Long	Idle	1	
[14]	01	00	00		1		Long	Idle	1	
[15]	01	00	00		1		Long	Idle	1	
[16]	01	00	00		1		Long	Idle	1	
[17]	01	00	00		1		Long	Idle	1	
[18]	01	00	00		1		Long	Idle	1	
[19]	01	00	00		1		Long	Idle	1	
[20]	01	00	00		1		Long	Idle	1	
[21]	01	00	00		1		Long	Idle	1	
[22]	01	00	00		1		Long	Idle	1	
[23]	01	00	00		1		Long	Idle	1	
[24]	01	00	00		1		Long	Idle	1	
[25]	01	00	00		1		Long	Idle	1	
[26]	01	00	00		1		Long	Idle	1	
[27]	01	00	00		1		Long	Idle	1	
[28]	01	00	00		1		Long	Idle	1	↓

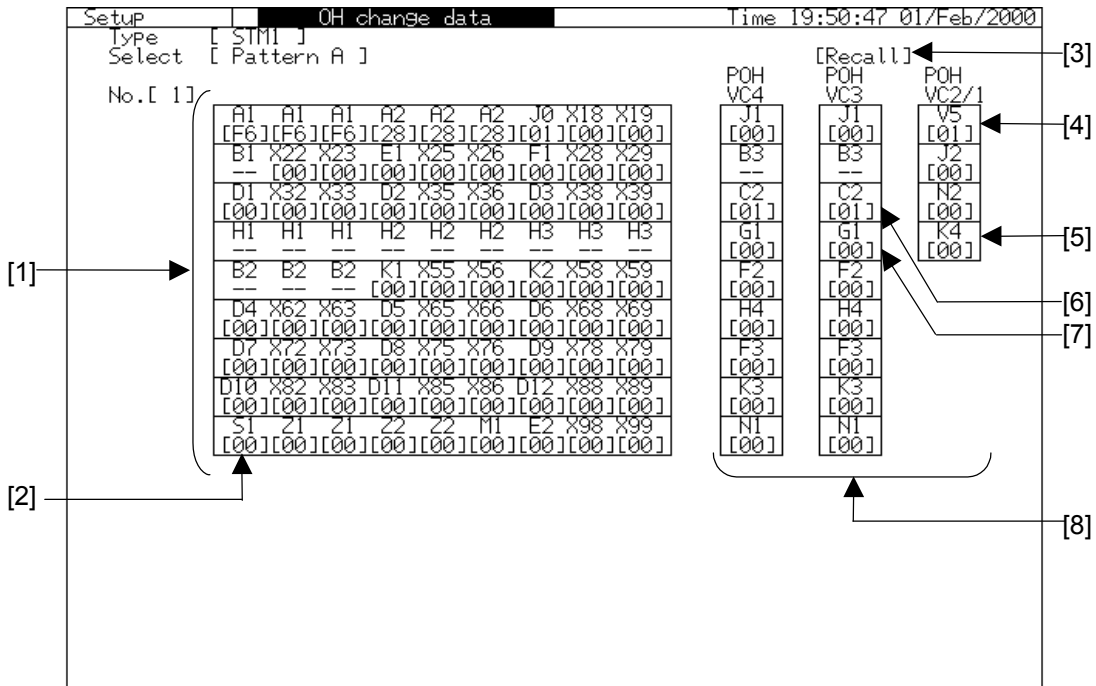
No.	Command	Page of manual
[1]	:SOURCE:TELEcom:APRogram:MSPBits:ARCHitect :SOURCE:TELEcom:APRogram:MSPBits:ARCHitect?	Vol.2, 10-104
[2]	:SOURCE:TELEcom:APRogram:MSPBits:BRIDGE :SOURCE:TELEcom:APRogram:MSPBits:BRIDGE?	Vol.2, 10-104
[3]	:SOURCE:TELEcom:APRogram:MSPBits:CHANnel :SOURCE:TELEcom:APRogram:MSPBits:CHANnel?	Vol.2, 10-103
[4]	:SOURCE:TELEcom:APRogram:MSPBits:REQuest :SOURCE:TELEcom:APRogram:MSPBits:REQuest?	Vol.2, 10-103
[5]	:SOURCE:TELEcom:APRogram:MSPBits:REServed :SOURCE:TELEcom:APRogram:MSPBits:REServed?	Vol.2, 10-104, 105
[6]	:SOURCE:TELEcom:APRogram:FRAME :SOURCE:TELEcom:APRogram:FRAME?	Vol.2, 10-105

2.11 PTR64 frame Sub Screen



No.	Command	Page of manual
[1]	:DISPlay:PTR64:POINter :DISPlay:PTR64:POINter?	Vol.2, 10-331
[2]	:SOURce:PTR64:DATA :SOURce:PTR64:DATA?	Vol.2, 10-164, 165
[3]	:SOURce:PTR64:DEFault	Vol.2, 10-165
[4]	:DISPlay:SETup:PTR64:SCRoll	Vol.2, 10-433

2.12 OH Change Data Sub Screen



No.	Command	Page of manual
[1]	:SOURCE:TELEcom:OHCHange:SOHPattern :SOURCE:TELEcom:OHCHange:SOHPattern? :SOURCE:TELEcom:OHCHange:TOHPattern :SOURCE:TELEcom:OHCHange:TOHPattern?	Vol.2, 10-123, 124, 125, 126
[2]	:SOURCE:TELEcom:OHCHange:SSMessage :SOURCE:TELEcom:OHCHange:SSMessage?	Vol.2, 10-116, 117
[3]	:SOURCE:TELEcom:OHCHange:RECall:DEFault :SOURCE:TELEcom:OHCHange:RECall:PRESet	Vol.2, 10-122
[4]	:SOURCE:TELEcom:OHCHange:VLABEL :SOURCE:TELEcom:OHCHange:VLABEL?	Vol.2, 10-119
[5]	:SOURCE:TELEcom:OHCHange:KLABEL :SOURCE:TELEcom:OHCHange:KLABEL? :SOURCE:TELEcom:OHCHange:ZLABEL :SOURCE:TELEcom:OHCHange:ZLABEL?	Vol.2, 10-121, 122
[6]	:SOURCE:TELEcom:OHCHange:SLABEL :SOURCE:TELEcom:OHCHange:SLABEL? :SOURCE:TELEcom:OHCHange:PLABEL :SOURCE:TELEcom:OHCHange:PLABEL?	Vol.2, 10-117, 118
[7]	:SOURCE:TELEcom:OHCHange:GLABEL :SOURCE:TELEcom:OHCHange:GLABEL?	Vol.2, 10-120
[8]	:SOURCE:TELEcom:OHCHange:POHPattern :SOURCE:TELEcom:OHCHange:POHPattern?	Vol.2, 10-126, 127

2.13 Frame Memory Sub Screen

Setup Frame memory Time 19:55:05 01/Feb/2000

[1] Bit rate [156M] Print [1] to [18] [8]

[2] Concatenation B3 addition [ON] [Recall] [9]

[3] Pointer [0]

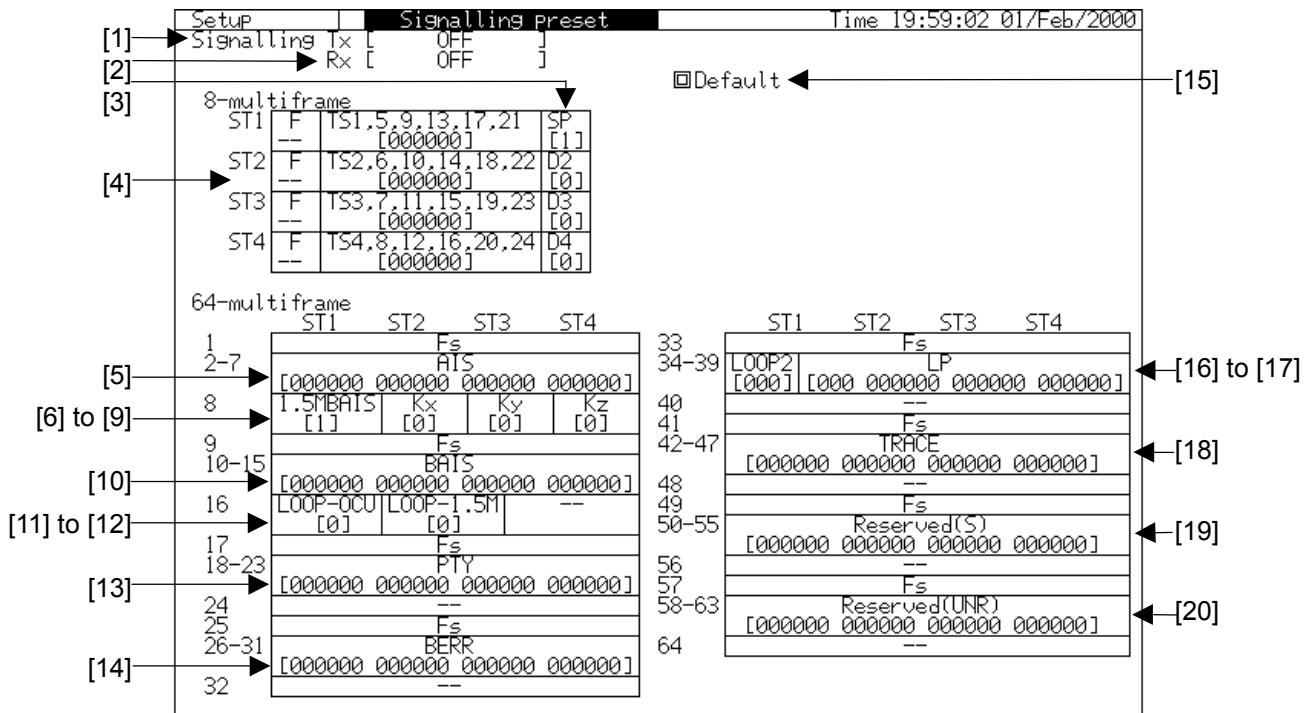
[4] Frame [1]

[5] Jump [1]

No.	1	2	3	4	5	6	7	8	9
	A1 A1 A1 A2 A2 A2 J0 X18 X19 F3								
	[F6][F6][F6][28][28][28][0][AA][AA][00][19][50][FF][FE][FF][FF][FF][FF]								
	B1 X22 X23 E1 X25 X26 F1 X28 X29 K3								
	-- [00][00][00][00][00][00][00][00][00][00][FD][FF][FF][FF][08][20][00][02]								
	D1 X32 X33 D2 X35 X36 D3 X38 X39 N1								
	[00][00][00][00][00][00][00][00][00][00][FF][FF][40][00][00][49][FF][FF]								
	H1 H1 H1 H2 H2 H2 H3 H3 H3 J1								
	-- -- -- -- -- -- -- -- -- [00][88][40][C0][00][FF][FF][FF][FE]								
[6]	B2 B2 B2 K1 X55 X56 K2 X58 X59 B3								
	-- -- -- [01][00][00][18][00][00] -- [10][00][FF][FF][FF][FF][10][00]								
	D4 X62 X63 D5 X65 X66 D6 X68 X69 C2								
	[00][00][00][00][00][00][00][00][00][FF][DF][FF][FF][FF][00][08][00][00]								
	D7 X72 X73 D8 X75 X76 D9 X78 X79 G1								
	[00][00][00][00][00][00][00][00][00][00][04][00][FF][00][08][00][FF][7F]								
	D10 X82 X83 D11 X85 X86 D12 X88 X89 F2								
	[00][00][00][00][00][00][00][00][00][FF][FF][FF][F7][FF][FF][FF][FF]								
	S1 Z1 Z1 Z2 Z2 M1 E2 X98 X99 H4								
	[00][00][00][00][00][00][00][00][00][00][FF][FF][00][00][90][00][FF][20]								
[7]	#01 #01 #01 #01 #01 #01 #01 #01 #01								

No.	Command	Page of manual
[1]	:SOURCE:TELEcom:FMEMemory:BRATe :SOURCE:TELEcom:FMEMemory:BRATe?	Vol.2, 10-137
[2]	:SOURCE:TELEcom:FMEMemory:B3Addition :SOURCE:TELEcom:FMEMemory:B3Addition?	Vol.2, 10-137, 138
[3]	:SOURCE:TELEcom:FMEMemory:POINter :SOURCE:TELEcom:FMEMemory:POINter?	Vol.2, 10-138
[4]	:SOURCE:TELEcom:FMEMemory:FRAMe :SOURCE:TELEcom:FMEMemory:FRAMe?	Vol.2, 10-138, 139
[5]	:DISPlay:SETup:FMEMemory:JUMP :DISPlay:SETup:FMEMemory:JUMP?	Vol.2, 10-433
[6]	:SOURCE:TELEcom:FMEMemory:PATTern :SOURCE:TELEcom:FMEMemory:PATTern?	Vol.2, 10-139
[7]	:DISPlay:SETup:FMEMemory:SCRoll	Vol.2, 10-426
[8]	:SOURCE:TELEcom:FMEMemory:PRINt :SOURCE:TELEcom:FMEMemory:PRINt?	Vol.2, 10-140, 141
[9]	:SOURCE:TELEcom:FMEMemory:RECall :SOURCE:TELEcom:FMEMemory:RECall?	Vol.2, 10-140

2.14 Signalling Preset Sub Screen

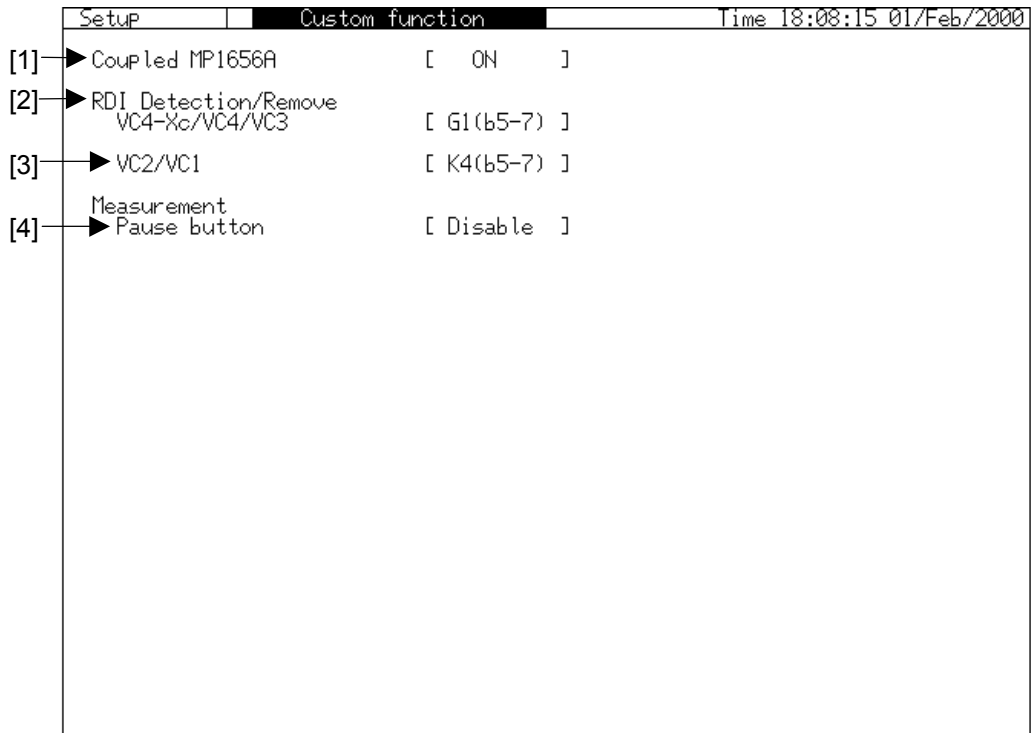


No.	Command	Page of manual
[1]	:SOURCE:SIGPreset:TX :SOURCE:SIGPreset:TX?	Vol.2, 10-156
[2]	:SENSE:SIGPreset:RX :SENSE:SIGPreset:RX?	Vol.2, 10-279, 280
[3]	:SOURCE:SIGPreset:MULTi8:SP :SOURCE:SIGPreset:MULTi8:SP?	Vol.2, 10-157
[4]	:SOURCE:SIGPreset:MULTi8:TS :SOURCE:SIGPreset:MULTi8:TS?	Vol.2, 10-157
[5]	:SOURCE:SIGPreset:MULTi64:AIS :SOURCE:SIGPreset:MULTi64:AIS?	Vol.2, 10-158
[6]	:SOURCE:SIGPreset:MULTi64:M15Bais :SOURCE:SIGPreset:MULTi64:M15Bais?	Vol.2, 10-162
[7]	:SOURCE:SIGPreset:MULTi64:KX :SOURCE:SIGPreset:MULTi64:KX?	Vol.2, 10-162
[8]	:SOURCE:SIGPreset:MULTi64:KY :SOURCE:SIGPreset:MULTi64:KY?	Vol.2, 10-162, 163
[9]	:SOURCE:SIGPreset:MULTi64:KZ :SOURCE:SIGPreset:MULTi64:KZ?	Vol.2, 10-163
[10]	:SOURCE:SIGPreset:MULTi64:AIS :SOURCE:SIGPreset:MULTi64:AIS?	Vol.2, 10-158
[11]	:SOURCE:SIGPreset:MULTi64:OCULoop :SOURCE:SIGPreset:MULTi64:OCULoop?	Vol.2, 10-163

2.14 Signalling Preset Sub Screen

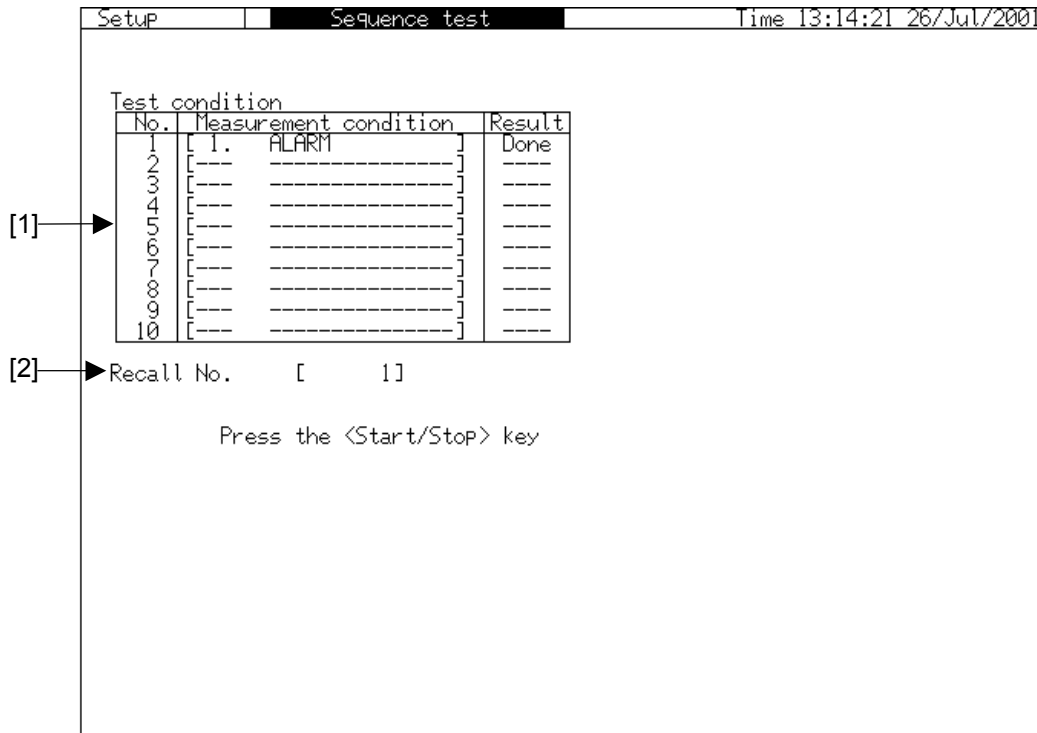
No.	Command	Page of manual
[12]	:SOURce:SIGPreset:MULTi64:M15Loop :SOURce:SIGPreset:MULTi64:M15Loop?	Vol.2, 10-164
[13]	:SOURce:SIGPreset:MULTi64:PTY :SOURce:SIGPreset:MULTi64:PTY?	Vol.2, 10-158, 159
[14]	:SOURce:SIGPreset:MULTi64:BERR :SOURce:SIGPreset:MULTi64:BERR?	Vol.2, 10-159
[15]	:SOURce:SIGPreset:DEFault	Vol.2, 10-164
[16]	:SOURce:SIGPreset:MULTi64:LOOP2 :SOURce:SIGPreset:MULTi64:LOOP2?	Vol.2, 10-161
[17]	:SOURce:SIGPreset:MULTi64:LP :SOURce:SIGPreset:MULTi64:LP?	Vol.2, 10-161
[18]	:SOURce:SIGPreset:MULTi64:TRACe :SOURce:SIGPreset:MULTi64:TRACe?	Vol.2, 10-159, 160
[19]	:SOURce:SIGPreset:MULTi64:S :SOURce:SIGPreset:MULTi64:S?	Vol.2, 10-160
[20]	:SOURce:SIGPreset:MULTi64:UNR :SOURce:SIGPreset:MULTi64:UNR?	Vol.2, 10-160, 161

2.15 Custom Function Sub Screen



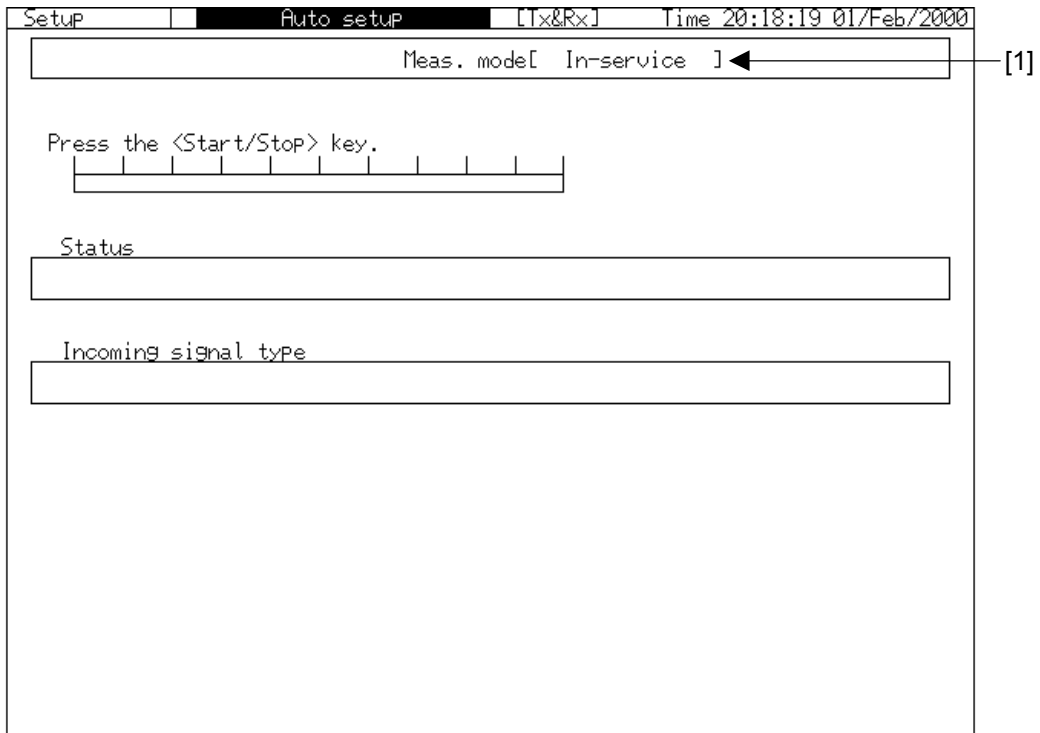
No.	Command	Page of manual
[1]	:SYSTem:COUPled:M1656 :SYSTem:COUPled:M1656?	Vol.2, 10-521
[2]	:SYSTem:RDI:VC43 :SYSTem:RDI:VC43? :SYSTem:RDI:STS :SYSTem:RDI:STS?	Vol.2, 10-516, 517
[3]	:SYSTem:RDI:VC21 :SYSTem:RDI:VC21? :SYSTem:RDI:VT :SYSTem:RDI:VT?	Vol.2, 10-517, 518
[4]	:SYSTem:MPAuse :SYSTem:MPAuse?	Vol.2, 10-518

2.16 Sequence Test Sub Screen



No.	Command	Page of manual
[1]	:SYSTem:SEQuence:SET :SYSTem:SEQuence:SET?	Vol.2, 10-518, 519
[2]	:SYSTem:SEQuence:RECall :SYSTem:SEQuence:RECall?	Vol.2, 10-519

2.17 Auto Setup Sub Screen



No.	Command	Page of manual
[1]	:SENSe:TELEcom:MMODE :SENSe:TELEcom:MMODE?	Vol.2, 253, 254

2.18 S1 Programmable Data Sub Screen

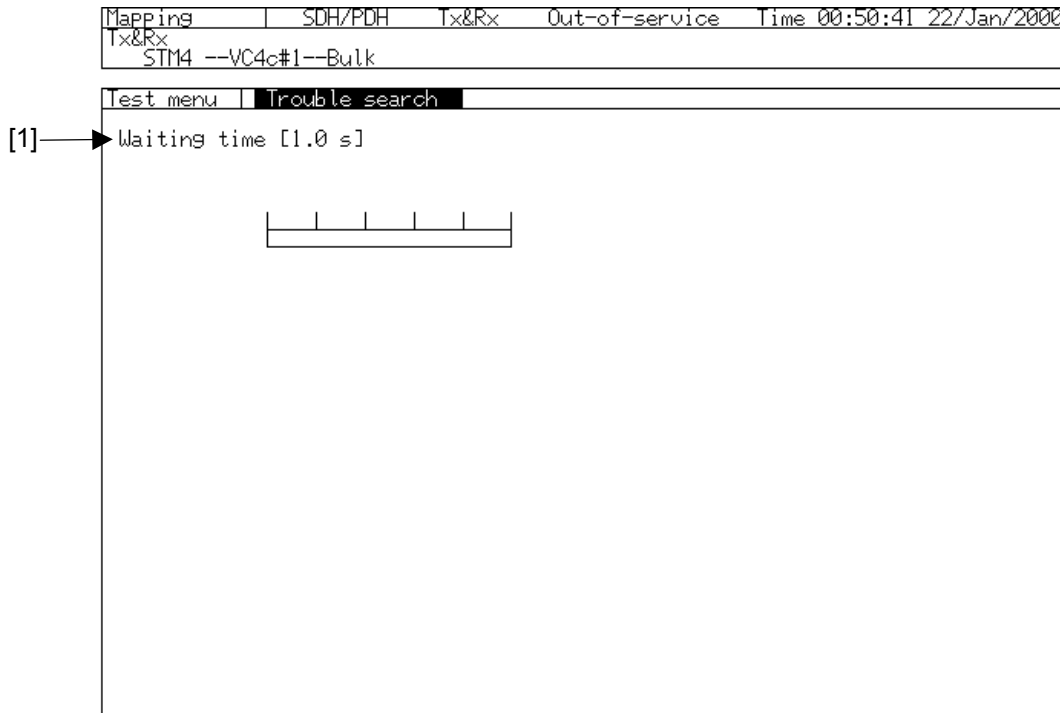
No.	S1	b1-b8	Frame
[1]	00	0000 0000 (Quality Unknown)	1
[2]	00	0000 0000 (Quality Unknown)	1
[3]	00	0000 0000 (Quality Unknown)	1
[4]	00	0000 0000 (Quality Unknown)	1
[5]	00	0000 0000 (Quality Unknown)	1
[6]	00	0000 0000 (Quality Unknown)	1
[7]	00	0000 0000 (Quality Unknown)	1
[8]	00	0000 0000 (Quality Unknown)	1
[9]	00	0000 0000 (Quality Unknown)	1
[10]	00	0000 0000 (Quality Unknown)	1
[11]	00	0000 0000 (Quality Unknown)	1
[12]	00	0000 0000 (Quality Unknown)	1
[13]	00	0000 0000 (Quality Unknown)	1
[14]	00	0000 0000 (Quality Unknown)	1
[15]	00	0000 0000 (Quality Unknown)	1
[16]	00	0000 0000 (Quality Unknown)	1
[17]	00	0000 0000 (Quality Unknown)	1
[18]	00	0000 0000 (Quality Unknown)	1
[19]	00	0000 0000 (Quality Unknown)	1
[20]	00	0000 0000 (Quality Unknown)	1
[21]	00	0000 0000 (Quality Unknown)	1
[22]	00	0000 0000 (Quality Unknown)	1
[23]	00	0000 0000 (Quality Unknown)	1
[24]	00	0000 0000 (Quality Unknown)	1
[25]	00	0000 0000 (Quality Unknown)	1
[26]	00	0000 0000 (Quality Unknown)	1
[27]	00	0000 0000 (Quality Unknown)	1
[28]	00	0000 0000 (Quality Unknown)	1

No.	Command	Page of manual
[1]	:SOURCE:TELEcom:SPRogram:SSMessages:REQuest :SOURCE:TELEcom:SPRogram:SSMessages:REQuest?	Vol.2, 10-152, 153
[2]	:SOURCE:TELEcom:SPRogram:SSBits:REQuest :SOURCE:TELEcom:SPRogram:SSBits:REQuest?	Vol.2, 10-154
[3]	:SOURCE:TELEcom:SPRogram:PROGram :SOURCE:TELEcom:SPRogram:PROGram?	Vol.2, 10-155, 156
[4]	:SOURCE:TELEcom:SPRogram:DEFault :SOURCE:TELEcom:SPRogram:COPI	Vol.2, 10-151, 152
[5]	:SOURCE:TELEcom:SPRogram:FRAMe :SOURCE:TELEcom:SPRogram:FRAMe?	Vol.2, 10-155
[6]	:DISPlay:SETup:SPR:SCRoll	Vol.2, 10-434

Section 3 Test Menu Main Screen

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3.2.3	Manual Sub Screen (3).....	3-7
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3.5	OH Test Sub Screen	3-15
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3.5.3	OH Test Sub Screen (3)	3-18
3.5.4	OH Test Sub Screen (4)	3-19
3.6	APS Test Sub Screen	3-20
3.7	Performance Check Sub Screen.....	3-22
3.8	Frame Memory Sub Screen	3-23

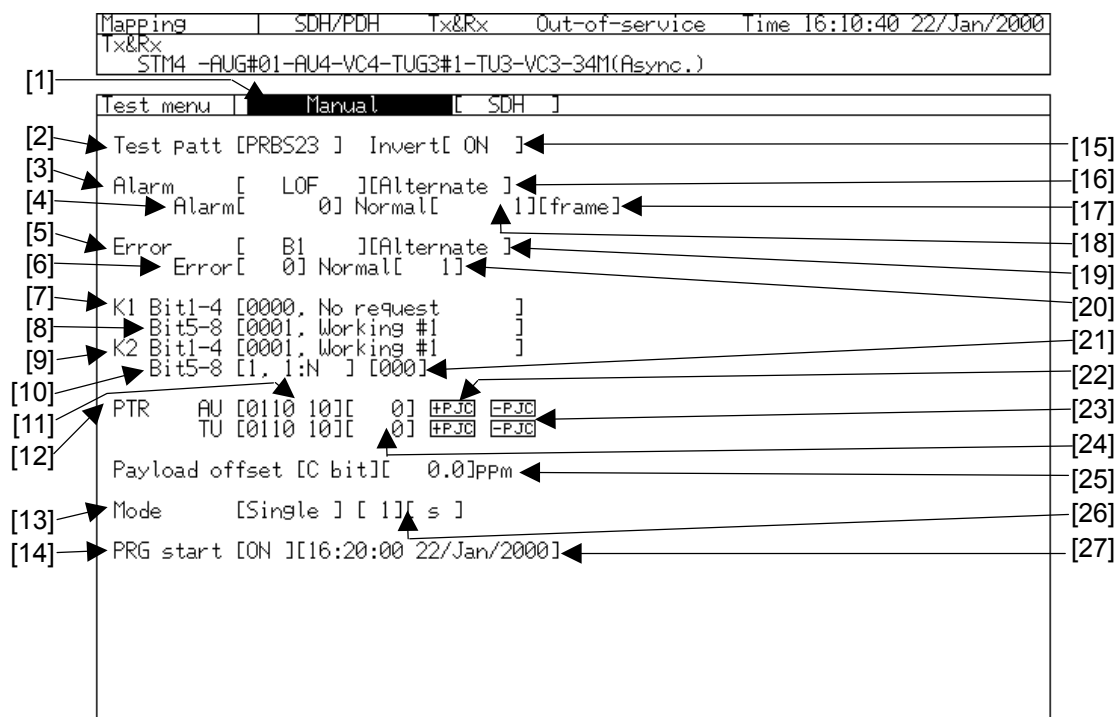
3.1 Trouble Search Sub Screen



No.	Command	Page of manual
[1]	:SENSe:MEASure:TSEarch:WTime :SENSe:MEASure:TSEarch:WTime?	Vol.2, 10-264

3.2 Manual Sub Screen

3.2.1 Manual Sub Screen (1)



No.	Command	Page of manual
[1]	:DISPlay:TMENu[:NAME]?	Vol.2, 10-321
[2]	:SENSe:TELEcom:PATTerN[:TYPE] :SENSe:TELEcom:PATTerN[:TYPE]?	Vol.2, 10-250, 251
[3]	:SOURce:TELEcom:ALARm:TYPE :SOURce:TELEcom:ALARm:TYPE?	Vol.2, 10-65, 67
[4]	:SOURce:TELEcom:ALARm:TIMing:ALARm :SOURce:TELEcom:ALARm:TIMing:ALARm?	Vol.2, 10-69, 70
[5]	:SOURce:TELEcom:ERRor:TYPE :SOURce:TELEcom:ERRor:TYPE?	Vol.2, 10-71, 72
[6]	:SOURce:TELEcom:ERRor:TIMing:ERRor :SOURce:TELEcom:ERRor:TIMing:ERRor?	Vol.2, 10-77
[7]	:SOURce:TELEcom:MSPMessages:REQuest :SOURce:TELEcom:MSPMessages:REQuest? :SOURce:TELEcom:MSPBits:REQuest :SOURce:TELEcom:MSPBits:REQuest?	Vol.2, 10-141, 142 Vol.2, 10-145
[8]	:SOURce:TELEcom:MSPMessages:CHANnel :SOURce:TELEcom:MSPMessages:CHANnel? :SOURce:TELEcom:MSPBits:CHANnel :SOURce:TELEcom:MSPBits:CHANnel?	Vol.2, 10-142, 143 Vol.2, 10-146

Section 3 Test Menu Main Screen

No.	Command	Page of manual
[9]	:SOURce:TELEcom:MSPMessages:BRIDGe :SOURce:TELEcom:MSPMessages:BRIDGe? :SOURce:TELEcom:MSPBits:BRIDGe :SOURce:TELEcom:MSPBits:BRIDGe?	Vol.2, 10-143, 144 Vol.2, 10-146
[10]	:SOURce:TELEcom:MSPMessages:ARCHitect :SOURce:TELEcom:MSPMessages:ARCHitect? :SOURce:TELEcom:MSPBits:ARCHitect :SOURce:TELEcom:MSPBits:ARCHitect?	Vol.2, 10-144 Vol.2, 10-147
[11]	:SOURce:TELEcom:PSETting:SSSet :SOURce:TELEcom:PSETting:SSSet?	Vol.2, 10-148, 149
[12]	:SOURce:TELEcom:PSETting:NDFSet :SOURce:TELEcom:PSETting:NDFSet?	Vol.2, 10-148
[13]	:SENSe:MEASure:TYPE :SENSe:MEASure:TYPE?	Vol.2, 10-260
[14]	:SENSe:MEASure:BTIME:SET :SENSe:MEASure:BTIME:SET?	Vol.2, 10-261
[15]	:SENSe:TELEcom:INVert :SENSe:TELEcom:INVert?	Vol.2, 10-252
[16]	:SOURce:TELEcom:ALARm:TIMing:TYPE :SOURce:TELEcom:ALARm:TIMing:TYPE?	Vol.2, 10-68
[17]	:SOURce:TELEcom:ALARm:TIMing:ALTErnate :SOURce:TELEcom:ALARm:TIMing:ALTErnate?	Vol.2, 10-70
[18]	:SOURce:TELEcom:ALARm:TIMing:NORMAL :SOURce:TELEcom:ALARm:TIMing:NORMAL?	Vol.2, 10-70
[19]	:SOURce:TELEcom:ERRor:ERATe :SOURce:TELEcom:ERRor:ERATe? :SOURce:TELEcom:ERRor:TIMing:TYPE :SOURce:TELEcom:ERRor:TIMing:TYPE?	Vol.2, 10-73, 74 Vol.2, 10-75, 76
[20]	:SOURce:TELEcom:ERRor:TIMing:NORMAL :SOURce:TELEcom:ERRor:TIMing:NORMAL?	Vol.2, 10-77
[21]	:SOURce:TELEcom:MSPMessages:REServed :SOURce:TELEcom:MSPMessages:REServed? :SOURce:TELEcom:MSPBits:REServed :SOURce:TELEcom:MSPBits:REServed?	Vol.2, 10-144, 145 Vol.2, 10-147
[22]	:SOURce:TELEcom:PSETting:PPJC	Vol.2, 10-150
[23]	:SOURce:TELEcom:PSETting:NPJC	Vol.2, 10-150
[24]	:SOURce:TELEcom:PSETting:IDSet :SOURce:TELEcom:PSETting:IDSet?	Vol.2, 10-149, 150
[25]	:SOURce:TELEcom:POFFset :SOURce:TELEcom:POFFset?	Vol.2, 10-151
[26]	:SENSe:MEASure:TYPE :SENSe:MEASure:TYPE?	Vol.2, 10-260

3.2 Manual Sub Screen

No.	Command	Page of manual
[27]	:SENSe:MEASure:BTIMe:STARt :SENSe:MEASure:BTIMe:STARt?	Vol.2, 10-261, 262

3.2.2 Manual Sub Screen (2)

```

Mapping      SDH/PDH Tx&Rx Out-of-service Time 00:19:36 23/Jan/2000
Tx&Rx
STM4 -AUG#01-AU4-VC4-139M(Async.)

Test menu  Manual [ SDH ]
Test patt [PRBS23 ] Invert[ ON ]
Alarm [ MS-AIS ][ Burst ]
[1]   [          ] [ 1][frame]
Error [ B1 ][ Burst ]
[2]   [ Bit [ 1 ]
K1 Bit1-4 [0000, No request ]
   Bit5-8 [0001, Working #1 ]
K2 Bit1-4 [0001, Working #1 ]
   Bit5-8 [1, 1:N ] [000]
PTR AU [0110 10][ 0] FPJ0 FPJ0
Payload offset [C bit][ 0.0]PPm
Mode [Repeat ] [ 1][ s ]
PRG start [OFF]
    
```

No.	Command	Page of manual
[1]	:SOURCE:TELEcom:ALARm:TIMing:BURSt :SOURCE:TELEcom:ALARm:TIMing:BURSt?	Vol.2, 10-69
[2]	:SOURCE:TELEcom:ERRor:TIMing:BURSt:BIT :SOURCE:TELEcom:ERRor:TIMing:BURSt:BIT?	Vol.2, 10-76

3.2.3 Manual Sub Screen (3)

Mapping	SDH/PDH	Tx&Rx	Out-of-service	Time 00:21:17 23/Jan/2000
Tx&Rx STM4 -AUG#01-AU4-VC4-139M(Async.)				
Test menu	Manual	[SDH]		
Test patt [PRBS23] Invert[ON]				
Alarm [MS-AIS] [Burst]				
[1][frame]				
[1]	Error	[B1]][Prog. rate]	
			→ [1.0E-10]	
K1 Bit1-4 [0000, No request]				
Bit5-8 [0001, Working #1]				
K2 Bit1-4 [0001, Working #1]				
Bit5-8 [1, 1:N] [000]				
PTR AU [0110 10][0] #PJ0 =PJ0				
Payload offset [C bit][0.0]PPm				
Mode [Repeat] [1][s]				
PRG start [OFF]				

No.	Command	Page of manual
[1]	:SOURCE:TELEcom:ERRor:TIMing:PROGrate :SOURCE:TELEcom:ERRor:TIMing:PROGrate?	Vol.2, 10-76, 77

3.2.4 Manual Sub Screen (4)

Mapping	CID	Tx&Rx	Time 20:05:20 22/Jan/2000
Tx&Rx	156M CID pattern	0/1 length	1byte

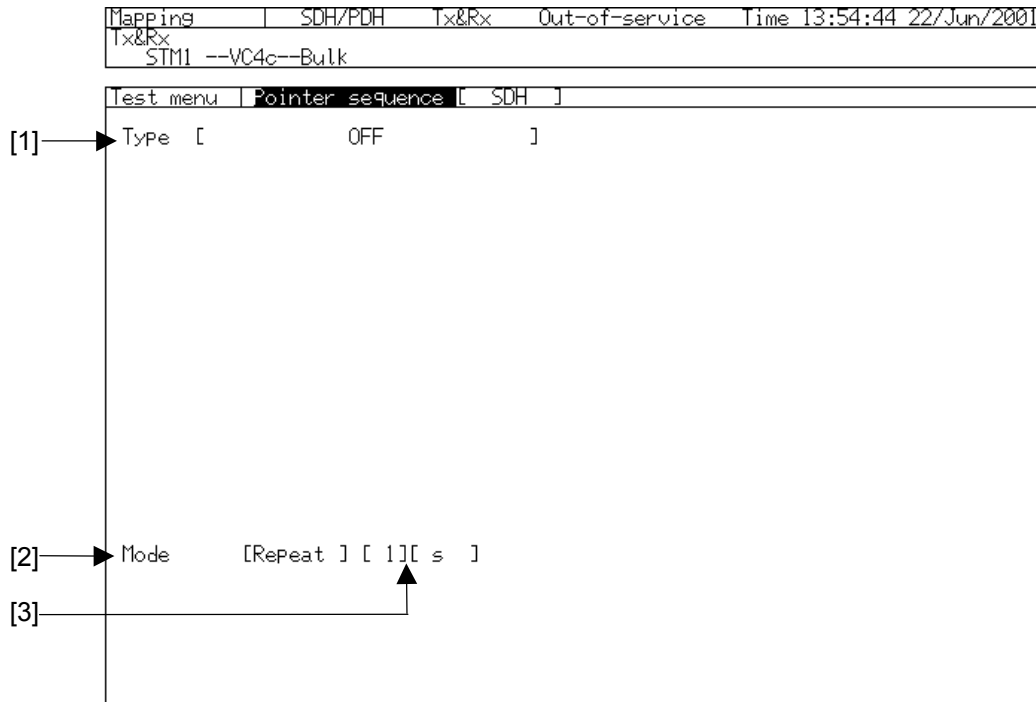
Test menu	Manual	CID	
Alarm [OFF] Error [OFF] 0/1 Pattern length [1] byte CID [OH ALL IPRBS7 OH ALL 0 PRBS7 OH] OH:the first row of the SOH of STM-N Mode [Repeat] [1][s] PRG start [OFF]			

[1] →

No.	Command	Page of manual
[1]	:SENSe:TELEcom:CIDPattern :SENSe:TELEcom:CIDPattern?	Vol.2, 10-253

3.3 Pointer Sequence Sub Screen

3.3.1 Pointer Sequence Sub Screen (1)



No.	Command	Page of manual
[1]	:SOURCE:TELEcom:PSEQUence:TYPE :SOURCE:TELEcom:PSEQUence:TYPE?	Vol.2, 10-78, 79
[2]	:SENSE:MEASure:TYPE :SENSE:MEASure:TYPE?	Vol.2, 10-260
[3]	:SENSE:MEASure:PERiod :SENSE:MEASure:PERiod?	Vol.2, 10-260

3.3.2 Pointer Sequence Sub Screen (2)

The screenshot shows a terminal window with the following content:

```

Mapping | SDH/PDH Tx&Rx Out-of-service Time 22:06:26 22/Jan/2000
Tx&Rx
STM4 -AUG#01-AU4-VC4-139M(Async.)

Test menu | Pointer sequence [ SDH ]
Type [Single of opposite polarity]

[1] → T1 [10000]ms
      Press <Start> key
[2] → PTR [AU ]
      Payload offset [0 bit][ 0.0]PPm
[3] →
      Mode [Repeat ] [ 1][ s ]
    
```

The timing diagram shows a horizontal line with a vertical tick mark at the start, labeled 'T1 [10000]ms'. Below the line, the text 'Press <Start> key' is displayed.

No.	Command	Page of manual
[1]	:SOURCE:TELEcom:PSEQUence:TIMing:T1 :SOURCE:TELEcom:PSEQUence:TIMing:T1?	Vol.2, 10-80, 81
[2]	:SOURCE:TELEcom:PSEQUence:POINter :SOURCE:TELEcom:PSEQUence:POINter?	Vol.2, 10-79, 80
[3]	:SOURCE:TELEcom:PSEQUence:POFFset :SOURCE:TELEcom:PSEQUence:POFFset?	Vol.2, 10-84

3.3.3 Pointer Sequence Sub Screen (3)

Mapping	SDH/PDH	Tx&Rx	Out-of-service	Time 22:07:51 22/Jan/2000
Tx&Rx STM4 -AUG#01-AU4-VC4-139M(Async.)				
Test menu Pointer sequence [SDH]				
Type [Regular with double]				
[1]				
Press <Start> key				
[2]	PTR [AU] Polarity[+Just]			
Payload offset [C bit][0.0]PPm				
Mode [Repeat] [1][s]				

No.	Command	Page of manual
[1]	:SOURce:TELEcom:PSEquence:TIMing:T2 :SOURce:TELEcom:PSEquence:TIMing:T2?	Vol.2, 10-81, 82
[2]	:SOURce:TELEcom:PSEquence:POLarity :SOURce:TELEcom:PSEquence:POLarity?	Vol.2, 10-80

3.3.4 Pointer Sequence Sub Screen (4)

The screenshot displays the 'Pointer sequence' sub-screen for SDH. At the top, it shows system information: Mapping SDH/PDH, Tx&Rx, Out-of-service, and Time 22:09:39 22/Jan/2000. Below this, the test menu is titled 'Pointer sequence [SDH]'. The main area shows a waveform diagram with pulses of 34ms and 0.5ms duration. Configuration options are listed below the waveform, with numbered callouts [1] through [7] pointing to specific fields. Callout [1] points to the 'Type' field, [2] to 'Added interval', [3] to 'Initialization', [4] to 'Cool down', [5] to 'Ti', [6] to the 's' field in 'Cool down', and [7] to the 's' field in 'Mode'.

No.	Command	Page of manual
[1]	:SOURce:TELEcom:PSEQUence:TIMing:T :SOURce:TELEcom:PSEQUence:TIMing:T?	Vol.2, 10-82
[2]	:SOURce:TELEcom:PSEQUence:AINterval :SOURce:TELEcom:PSEQUence:AINterval?	Vol.2, 10-82, 83
[3]	:SOURce:TELEcom:PSEQUence:INItial:MODE :SOURce:TELEcom:PSEQUence:INItial:MODE?	Vol.2, 10-84, 85
[4]	:SOURce:TELEcom:PSEQUence:CDOwn:MODE :SOURce:TELEcom:PSEQUence:CDOwn:MODE?	Vol.2, 10-86
[5]	:SOURce:TELEcom:PSEQUence:INItial:TI :SOURce:TELEcom:PSEQUence:INItial:TI?	Vol.2, 10-85
[6]	:SOURce:TELEcom:PSEQUence:INItial:TIME :SOURce:TELEcom:PSEQUence:INItial:TIME?	Vol.2, 10-85
[7]	:SOURce:TELEcom:PSEQUence:CDOwn:TIME :SOURce:TELEcom:PSEQUence:CDOwn:TIME?	Vol.2, 10-86, 87

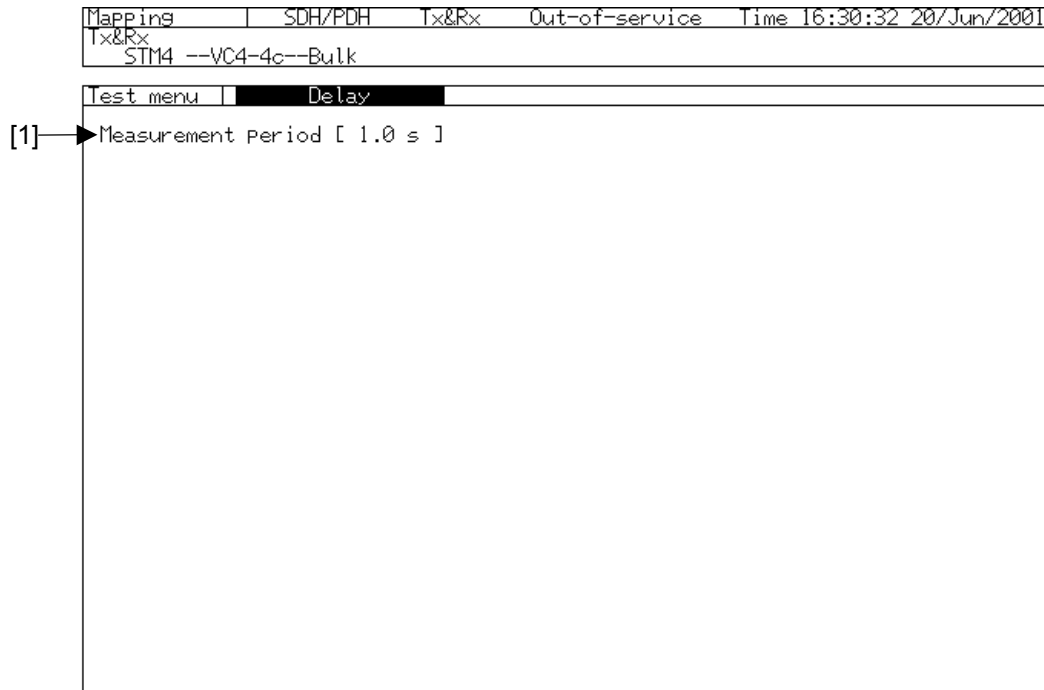
3.3.5 Pointer Sequence Sub Screen (5)

Mapping	SDH/PDH	Tx&Rx	Out-of-service	Time 22:12:55 22/Jan/2000
Tx&Rx STM4 -AUG#01-AU4-VC4-139M(Async.)				

Test menu	Pointer sequence [SDH]
Type	[87-3/26-1 cancel]
Press <Start> key	
PTR	[AU] Polarity[-Just]
[1] → Cancelled interval	[1 in 10]
Payload offset	[C bit][-100.0]PPM
Initialization	[ON][1]s Tt [5]ms
Cool down	[ON][1]s
Mode	[Repeat] [1] [s]

No.	Command	Page of manual
[1]	:SOURCE:TELEcom:PSEQUence:CINTerval :SOURCE:TELEcom:PSEQUence:CINTerval?	Vol.2, 10-83, 84

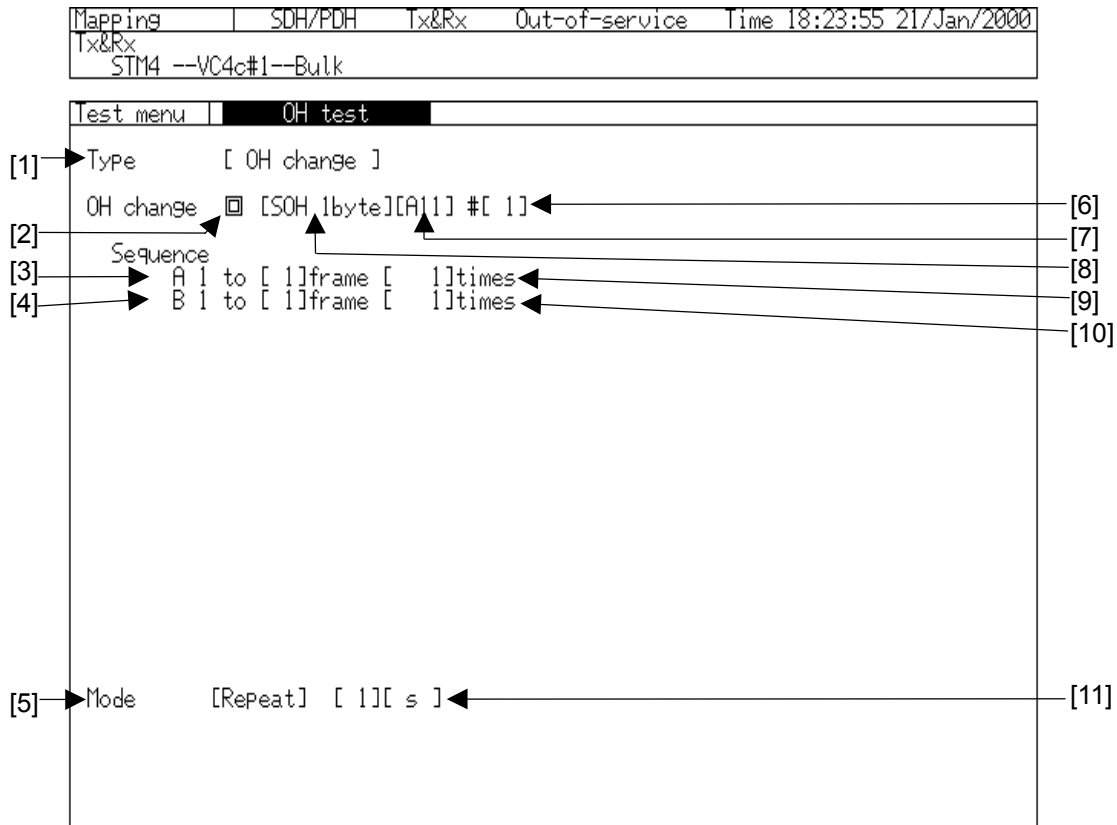
3.4 Delay Sub Screen



No.	Command	Page of manual
[1]	:SENSe:MEASure:DELay:PERiod :SENSe:MEASure:DELay:PERiod?	Vol.2, 10-264

3.5 OH Test Sub Screen

3.5.1 OH Test Sub Screen (1)

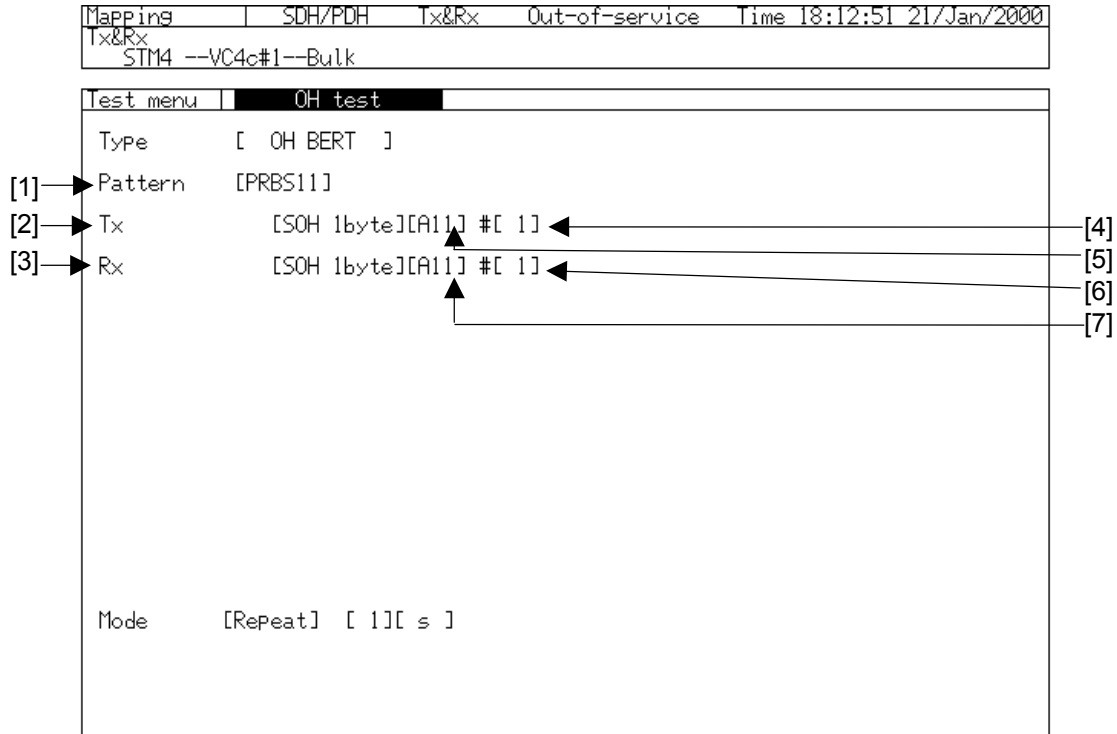


No.	Command	Page of manual
[1]	:SOURCE:OHTest:TYPE :SOURCE:OHTest:TYPE?	Vol.2, 10-182
[2]	:SOURCE:OHTest:START :SOURCE:OHTest:STATE? :SOURCE:OHTest:STOP	Vol.2, 10-182, 183
[3]	:SOURCE:OHTest:OHCHange:SEQuence:A:FRAMe :SOURCE:OHTest:OHCHange:SEQuence:A:FRAMe?	Vol.2, 10-187
[4]	:SOURCE:OHTest:OHCHange:SEQuence:B:FRAMe :SOURCE:OHTest:OHCHange:SEQuence:B:FRAMe?	Vol.2, 10-187, 188
[5]	:SENSe:OHTest:MEASure:TYPE :SENSe:OHTest:MEASure:TYPE?	Vol.2, 10-288, 289
[6]	:SOURCE:OHTest:OHCHange:CHANel :SOURCE:OHTest:OHCHange:CHANel?	Vol.2, 10-186

Section 3 Test Menu Main Screen

No.	Command	Page of manual
[7]	:SOURce:OHTest:OHCHange:POSition:SOH :SOURce:OHTest:OHCHange:POSition:SOH? :SOURce:OHTest:OHCHange:POSition:TOH :SOURce:OHTest:OHCHange:POSition:TOH? :SOURce:OHTest:OHCHange:POSition:POH :SOURce:OHTest:OHCHange:POSition:POH?	Vol.2, 10-184, 185 Vol.2, 10-184, 185 Vol.2, 10-185, 186
[8]	:SOURce:OHTest:OHCHange:TYPE :SOURce:OHTest:OHCHange:TYPE?	Vol.2, 10-183, 184
[9]	:SOURce:OHTest:OHCHange:SEQuence:A:TIME :SOURce:OHTest:OHCHange:SEQuence:A:TIME?	Vol.2, 10-187
[10]	:SOURce:OHTest:OHCHange:SEQuence:B:TIME :SOURce:OHTest:OHCHange:SEQuence:B:TIME?	Vol.2, 10-188
[11]	:SENSe:OHTest:MEASure:PERiod :SENSe:OHTest:MEASure:PERiod?	Vol.2, 10-289

3.5.2 OH Test Sub Screen (2)



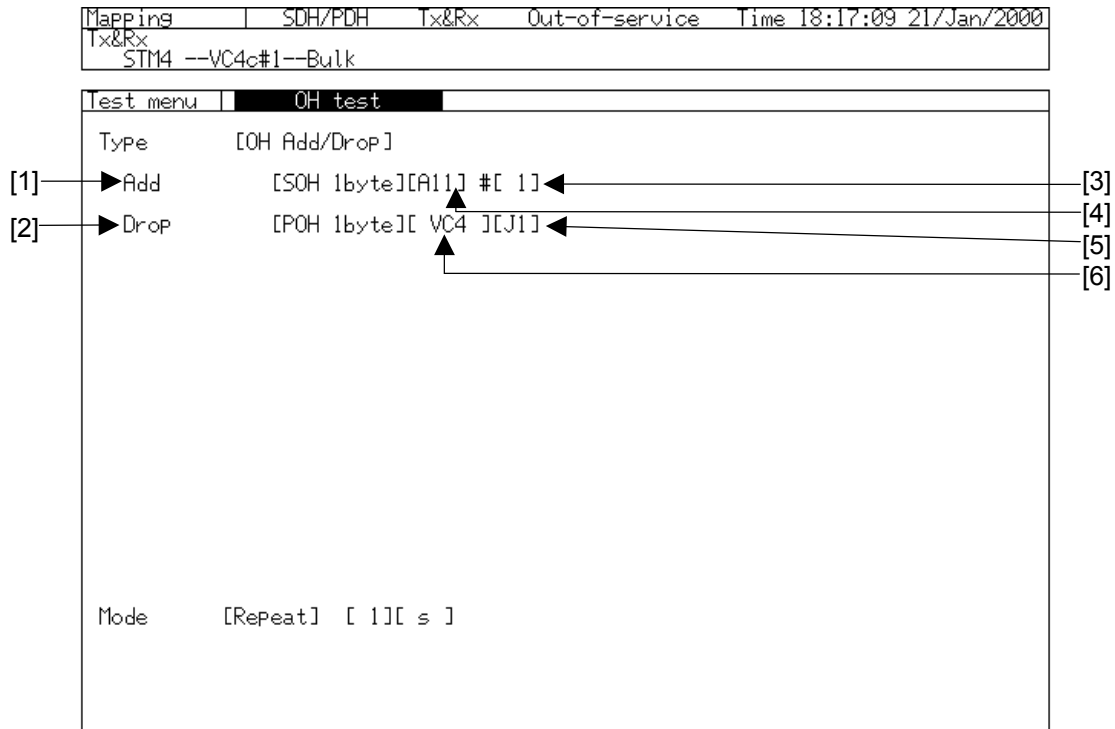
No.	Command	Page of manual
[1]	:SENSE:OHTest:OHBert:PATtern :SENSE:OHTest:OHBert:PATtern?	Vol.2, 10-281
[2]	:SOURCE:OHTest:OHBert:TYPE :SOURCE:OHTest:OHBert:TYPE?	Vol.2, 10-188, 189
[3]	:SENSE:OHTest:OHBert:TYPE :SENSE:OHTest:OHBert:TYPE?	Vol.2, 10-280
[4]	:SOURCE:OHTest:OHBert:CHANel :SOURCE:OHTest:OHBert:CHANel?	Vol.2, 10-191
[5]	:SOURCE:OHTest:OHBert:POSition:SOH	Vol.2, 10-189, 190
	:SOURCE:OHTest:OHBert:POSition:SOH?	
	:SOURCE:OHTest:OHBert:POSition:TOH	Vol.2, 10-189, 190
	:SOURCE:OHTest:OHBert:POSition:TOH?	
	:SOURCE:OHTest:OHBert:POSition:POH	Vol.2, 10-190, 191
[6]	:SENSE:OHTest:OHBert:CHANel :SENSE:OHTest:OHBert:CHANel?	Vol.2, 10-284, 285
[7]	:SENSE:OHTest:OHBert:POSition:SOH	Vol.2, 10-282, 283
	:SENSE:OHTest:OHBert:POSition:SOH?	
	:SENSE:OHTest:OHBert:POSition:TOH	Vol.2, 10-282, 283
	:SENSE:OHTest:OHBert:POSition:TOH?	
	:SENSE:OHTest:OHBert:POSition:POH	Vol.2, 10-283, 284
	:SENSE:OHTest:OHBert:POSition:POH?	

3.5.3 OH Test Sub Screen (3)



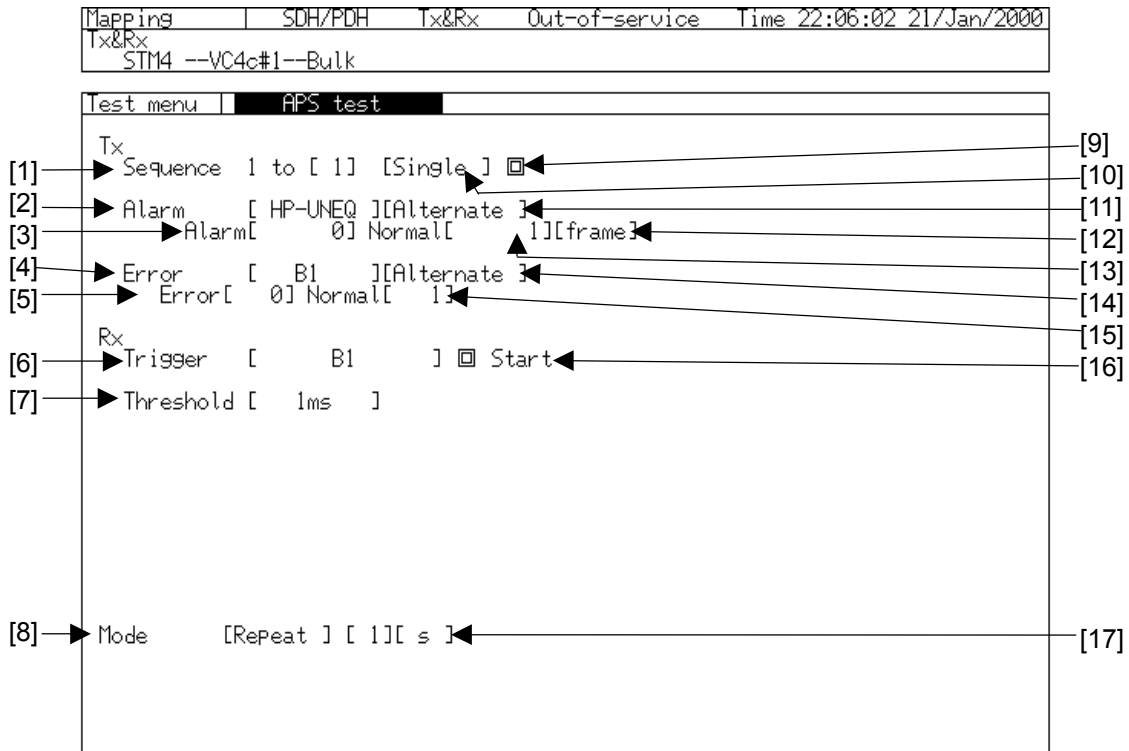
No.	Command	Page of manual
[1]	:SOURCE:OHTest:PTR64:PTR :SOURCE:OHTest:PTR64:PTR?	Vol.2, 10-196
[2]	:SOURCE:OHTest:START :SOURCE:OHTest:STATE? :SOURCE:OHTest:STOP	Vol.2, 10-182, 183
[3]	:SOURCE:OHTest:PTR64:SEQUENCE:MODE :SOURCE:OHTest:PTR64:SEQUENCE:MODE?	Vol.2, 10-195, 196
[4]	:SOURCE:OHTest:PTR64:SEQUENCE:FRAME :SOURCE:OHTest:PTR64:SEQUENCE:FRAME?	Vol.2, 10-195

3.5.4 OH Test Sub Screen (4)



No.	Command	Page of manual
[1]	:SOURCE:OHTest:ADrop:TYPE :SOURCE:OHTest:ADrop:TYPE?	Vol.2, 10-192
[2]	:SENSE:OHTest:ADrop:TYPE :SENSE:OHTest:ADrop:TYPE?	Vol.2, 10-285
[3]	:SOURCE:OHTest:ADrop:CHANel :SOURCE:OHTest:ADrop:CHANel?	Vol.2, 10-194, 195
[4]	:SOURCE:OHTest:ADrop:POSition:SOH :SOURCE:OHTest:ADrop:POSition:SOH? :SOURCE:OHTest:ADrop:POSition:TOH :SOURCE:OHTest:ADrop:POSition:TOH? :SOURCE:OHTest:ADrop:POSition:POH :SOURCE:OHTest:ADrop:POSition:POH?	Vol.2, 10-192, 193 Vol.2, 10-192, 193 Vol.2, 10-193, 194
[5]	:SENSE:OHTest:ADrop:CHANel :SENSE:OHTest:ADrop:CHANel?	Vol.2, 10-288
[6]	:SENSE:OHTest:ADrop:POSition:SOH :SENSE:OHTest:ADrop:POSition:SOH? :SENSE:OHTest:ADrop:POSition:TOH :SENSE:OHTest:ADrop:POSition:SOH? :SENSE:OHTest:ADrop:POSition:POH :SENSE:OHTest:ADrop:POSition:POH?	Vol.2, 10-286 Vol.2, 10-287, 288

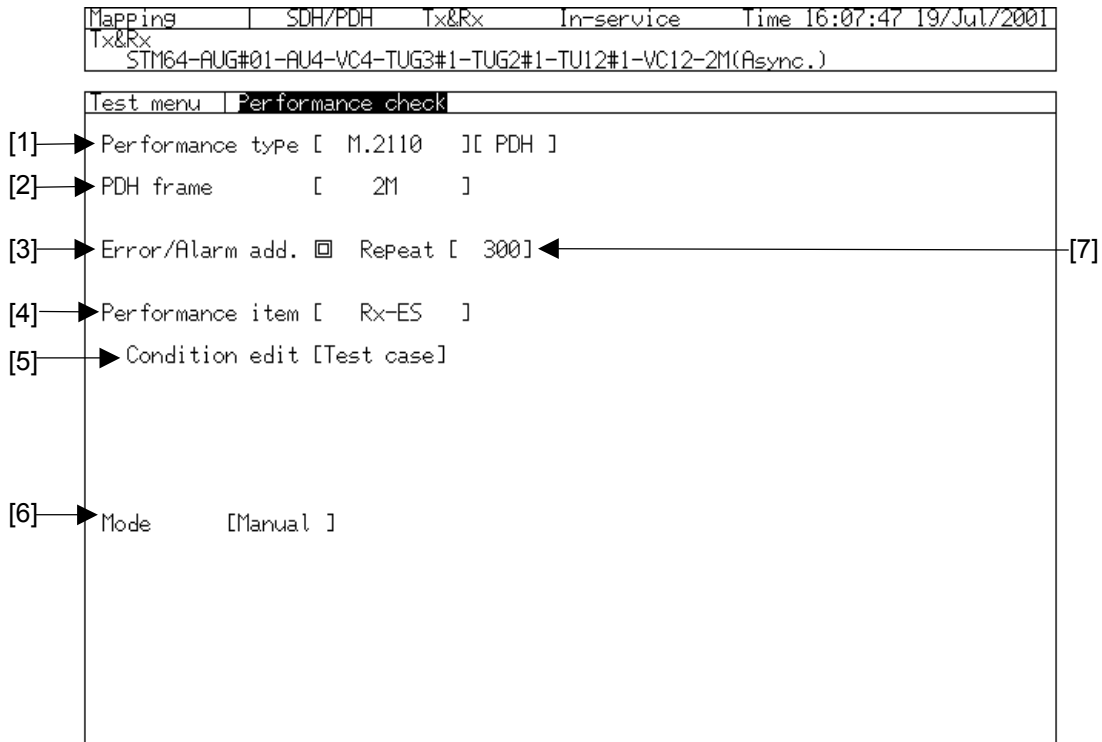
3.6 APS Test Sub Screen



No.	Command	Page of manual
[1]	:SOURCE:APSTest:SEQUENCE:FRAME :SOURCE:APSTest:SEQUENCE:FRAME?	Vol.2, 10-206
[2]	:SOURCE:APSTest:ALARM:TYPE :SOURCE:APSTest:ALARM:TYPE?	Vol.2, 10-207, 209
[3]	:SOURCE:APSTest:ALARM:TIMING:ALARM :SOURCE:APSTest:ALARM:TIMING:ALARM?	Vol.2, 10-209, 210
[4]	:SOURCE:APSTest:ERROR:TYPE :SOURCE:APSTest:ERROR:TYPE?	Vol.2, 10-211, 213
[5]	:SOURCE:APSTest:ERROR:TIMING:ERROR :SOURCE:APSTest:ERROR:TIMING:ERROR?	Vol.2, 10-214, 215
[6]	:SENSE:APSTest:TRIGGER:TYPE :SENSE:APSTest:TRIGGER:TYPE?	Vol.2, 10-289, 290
[7]	:SENSE:APSTest:THRESHOLD :SENSE:APSTest:THRESHOLD?	Vol.2, 10-290, 291
[8]	:SENSE:APSTest:MEASURE:TYPE :SENSE:APSTest:MEASURE:TYPE?	Vol.2, 10-291
[9]	:SOURCE:APSTest:START :SOURCE:APSTest:STOP	Vol.2, 10-207
[10]	:SOURCE:APSTest:SEQUENCE:MODE :SOURCE:APSTest:SEQUENCE:MODE?	Vol.2, 10-206, 207

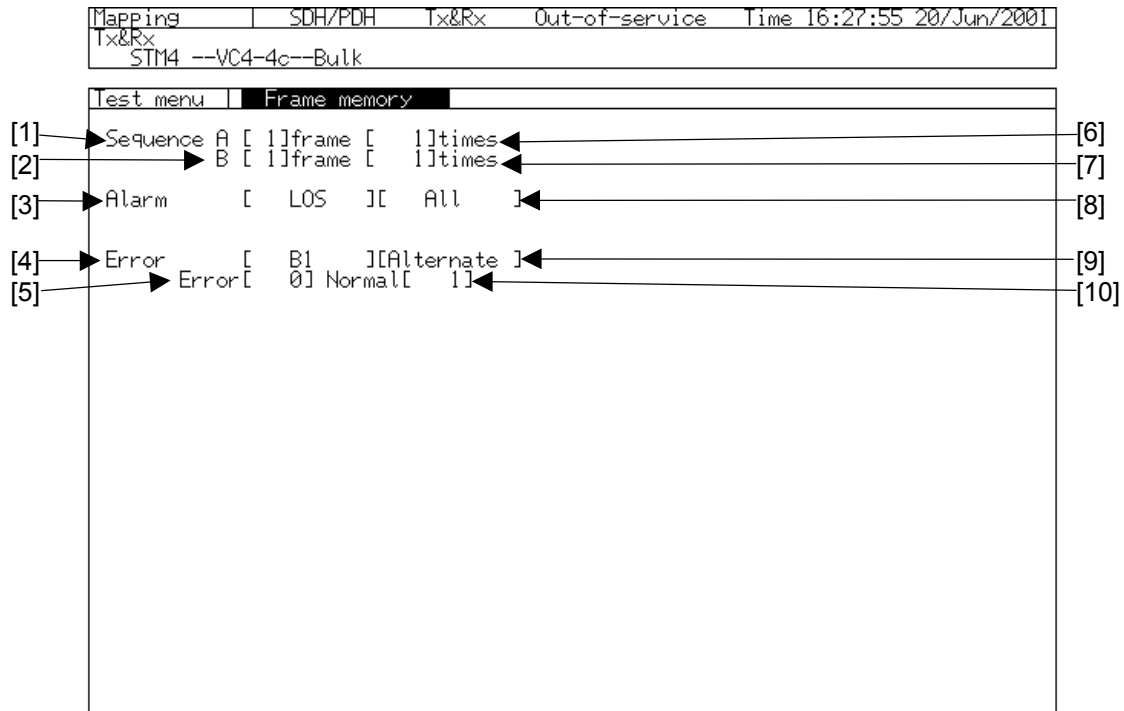
No.	Command	Page of manual
[11]	:SOURCE:APSTest:ALARm:TIMing:TYPE :SOURCE:APSTest:ALARm:TIMing:TYPE?	Vol.2, 10-209
[12]	:SOURCE:APSTest:ALARm:TIMing:NORMal :SOURCE:APSTest:ALARm:TIMing:NORMal? :SOURCE:APSTest:ALARm:TIMing:BURSt :SOURCE:APSTest:ALARm:TIMing:BURSt?	Vol.2, 10-210 Vol.2, 10-211
[13]	:SOURCE:APSTest:ALARm:TIMing:ALTErnate :SOURCE:APSTest:ALARm:TIMing:ALTErnate? :SOURCE:APSTest:ALARm:TIMing:BURSt :SOURCE:APSTest:ALARm:TIMing:BURSt?	Vol.2, 10-210, 211 Vol.2, 10-211
[14]	:SOURCE:APSTest:ERRor:TIMing:TYPE :SOURCE:APSTest:ERRor:TIMing:TYPE?	Vol.2, 10-213, 214
[15]	:SOURCE:APSTest:ERRor:TIMing:PROGrate :SOURCE:APSTest:ERRor:TIMing:PROGrate? :SOURCE:APSTest:ERRor:TIMing:NORMal :SOURCE:APSTest:ERRor:TIMing:NORMal? :SOURCE:APSTest:ERRor:TIMing:BURSt:BIT :SOURCE:APSTest:ERRor:TIMing:BURSt:BIT?	Vol.2, 10-215 Vol.2, 10-215, 216 Vol.2, 10-216
[16]	:SENSe:APSTest:STARt :SENSe:APSTest:STOP	Vol.2, 10-292
[17]	:SENSe:APSTest:MEASure:PERiod :SENSe:APSTest:MEASure:PERiod?	Vol.2, 10-289

3.7 Performance Check Sub Screen



No.	Command	Page of manual
[1]	:SOURCE:PCHECK:TYPE :SOURCE:PCHECK:TYPE?	Vol.2, 10-166
[2]	:SOURCE:PCHECK:PDHFRAME :SOURCE:PCHECK:PDHFRAME?	Vol.2, 10-166, 167
[3]	:SOURCE:PCHECK:START :SOURCE:PCHECK:STOP :SOURCE:PCHECK:STATE?	Vol.2, 10-172, 173
[4]	:SOURCE:PCHECK:ITEM :SOURCE:PCHECK:ITEM?	Vol.2, 10-167, 168
[5]	:SOURCE:PCHECK:CONDITION :SOURCE:PCHECK:CONDITION?	Vol.2, 10-168, 172
[6]	:SENSE:PCHECK:MODE :SENSE:PCHECK:MODE?	Vol.2, 10-280
[7]	:SOURCE:PCHECK:REPEAT :SOURCE:PCHECK:REPEAT?	Vol.2, 10-167

3.8 Frame Memory Sub Screen



No.	Command	Page of manual
[1]	:SOURCE:FMEMORY:SEQUENCE:A:FRAME :SOURCE:FMEMORY:SEQUENCE:A:FRAME?	Vol.2, 10-173
[2]	:SOURCE:FMEMORY:SEQUENCE:B:FRAME :SOURCE:FMEMORY:SEQUENCE:B:FRAME?	Vol.2, 10-174
[3]	:SOURCE:FMEMORY:ALARM:TYPE :SOURCE:FMEMORY:ALARM:TYPE?	Vol.2, 10-175, 176
[4]	:SOURCE:FMEMORY:ERROR:TYPE :SOURCE:FMEMORY:ERROR:TYPE?	Vol.2, 10-178, 179
[5]	:SOURCE:FMEMORY:ERROR:TIMING:TYPE :SOURCE:FMEMORY:ERROR:TIMING:TYPE?	Vol.2, 10-179, 180
[6]	:SOURCE:FMEMORY:SEQUENCE:A:TIME :SOURCE:FMEMORY:SEQUENCE:A:TIME?	Vol.2, 10-173
[7]	:SOURCE:FMEMORY:SEQUENCE:B:TIME :SOURCE:FMEMORY:SEQUENCE:B:TIME?	Vol.2, 10-174, 175
[8]	:SOURCE:FMEMORY:ALARM:TIMING:TYPE :SOURCE:FMEMORY:ALARM:TIMING:TYPE?	Vol.2, 10-176, 177
[9]	:SOURCE:FMEMORY:ERROR:TIMING:TYPE :SOURCE:FMEMORY:ERROR:TIMING:TYPE?	Vol.2, 10-179, 180

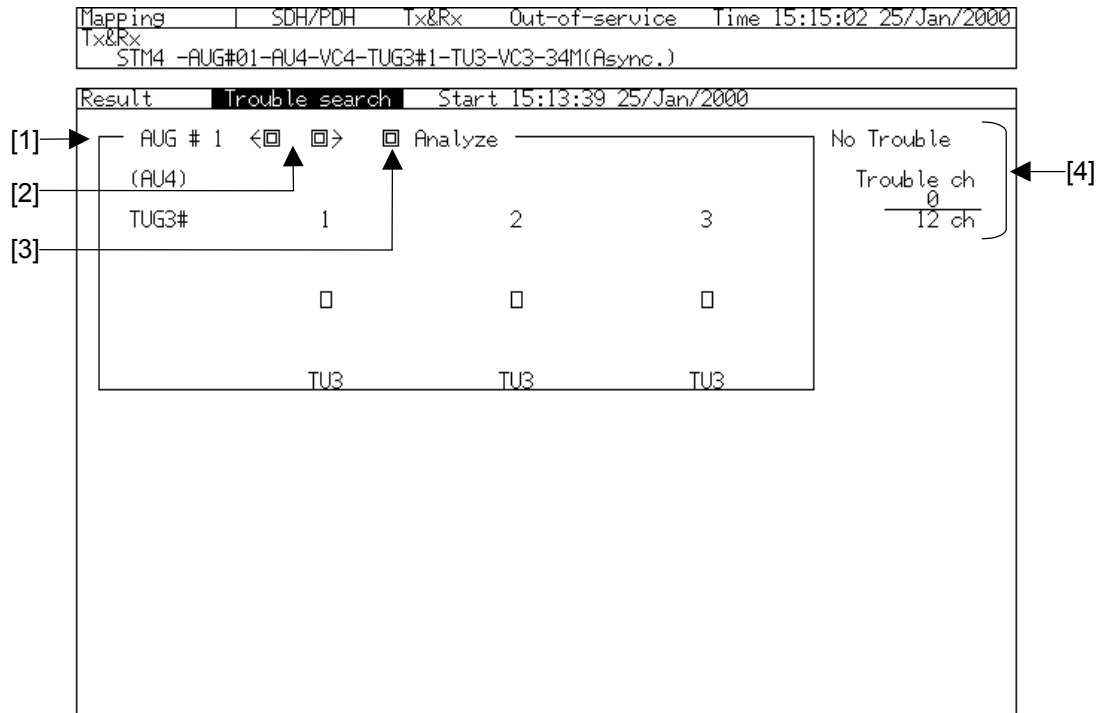
Section 4 Test Menu Main Screen

No.	Command	Page of manual
[10]	:SOURce:FMEMory:ERRor:TIMing:NORMal :SOURce:FMEMory:ERRor:TIMing:NORMal? :SOURce:FMEMory:ERRor:TIMing:PROGrate :SOURce:FMEMory:ERRor:TIMing:PROGrate? :SOURce:FMEMory:ERRor:TIMing:BURSt:BIT :SOURce:FMEMory:ERRor:TIMing:BURSt:BIT?	Vol.2, 10-181 Vol.2, 10-180, 181 Vol.2, 10-181, 182

Section 4 Result Main Screen

4.1	Trouble Search Sub Screen	4-2
4.2	Error/Alarm Sub Screen	4-3
4.2.1	Error/Alarm Sub Screen (1)	4-3
4.2.2	Error/Alarm Sub Screen (2)	4-4
4.3	Justification Sub Screen.....	4-5
4.4	Zoom Sub Screen	4-6
4.5	Performance Sub Screen.....	4-7
4.5.1	Performance Sub Screen (1)	4-7
4.5.2	Performance Sub Screen (2)	4-8
4.5.3	Performance Sub Screen (3)	4-9
4.5.4	Performance Sub Screen (4)	4-11
4.5.5	Performance Sub Screen (5)	4-13
4.5.6	Performance Sub Screen (6)	4-15
4.6	B2 Error Sub Screen	4-16
4.7	Simultaneous Sub Screen.....	4-17
4.8	Delay Sub Screen	4-18
4.9	APS Test Sub Screen	4-19

4.1 Trouble Search Sub Screen



No.	Command	Page of manual
[1]	:DISPlay:RESult:TSEarch:AUG :DISPlay:RESult:TSEarch:AUG? :DISPlay:RESult:TSEarch:STS :DISPlay:RESult:TSEarch:STS?	Vol.2, 10-345
[2]	:DISPlay:RESult:TSEarch:SEARCh	Vol.2, 10-345
[3]	:DISPlay:RESult:TSEarch:ANALyze	Vol.2, 10-346
[4]	:CALCulate:TSEarch:RESult?	Vol.2, 10-487

4.2 Error/Alarm Sub Screen

4.2.1 Error/Alarm Sub Screen (1)

The screenshot shows a terminal window with the following content:

```

Mapping | SDH/PDH Tx&Rx Out-of-service Time 18:26:40 25/Jan/2000
Tx&Rx
STM4 -AUG#01-AU4-VC4-TUG3#1-TU3-VC3-34M(Async.)

Result Error/Alarm Start
[1] ▶ Alarm [Second ] Error [Count ] Display data [Current] ◀ [3]
[2]
Section HP(AU) LP(TU) PDH
P-fail AIS AIS AIS 34M
LOS LOP LOP
LOF RDI RDI
OOF SLM SLM
AIS
RDI Sync.
TIM TIM
UNEQ UNEQ
B1 B3 B3
B2 REI REI
Bit
    
```

Labels [1] through [4] indicate the following UI elements:

- [1] Points to the left arrow of the status bar.
- [2] Points to the table area.
- [3] Points to the right arrow of the status bar.
- [4] Points to the bottom arrow of the status bar.

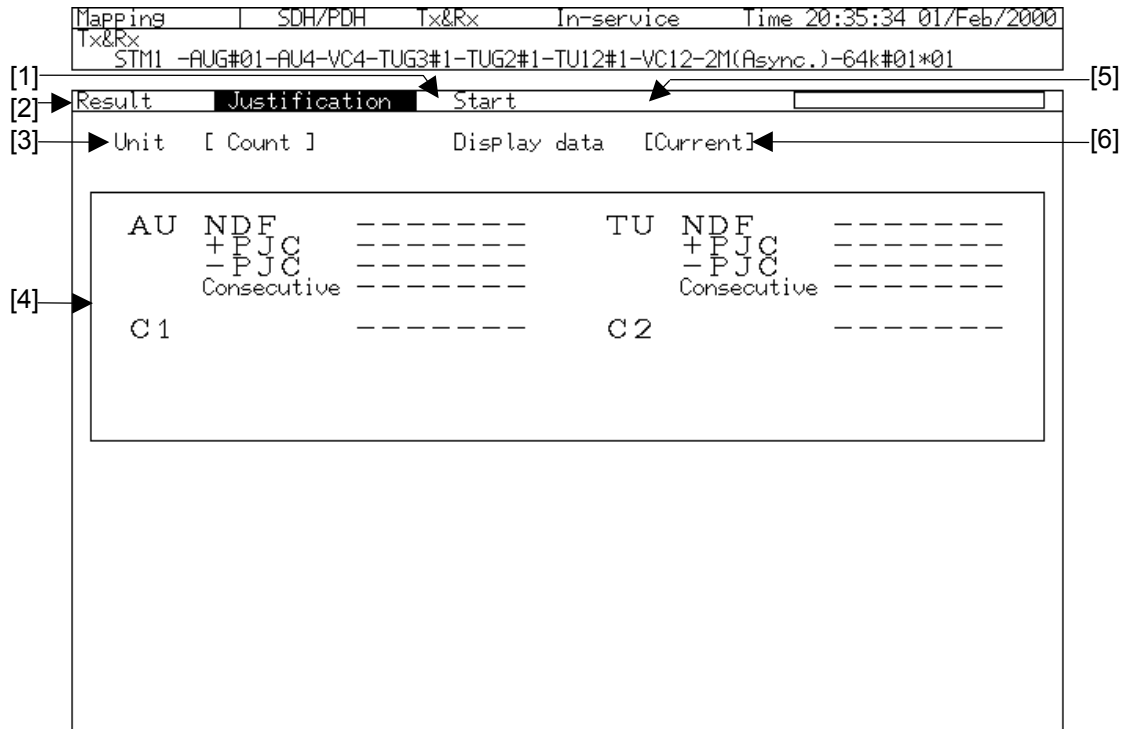
No.	Command	Page of manual
[1]	:DISPlay:RESult:EALarm:AUNit :DISPlay:RESult:EALarm:AUNit?	Vol.2, 10-333
[2]	:DISPlay:RESult:EALarm:UNIT :DISPlay:RESult:EALarm:UNIT?	Vol.2, 10-332
[3]	:DISPlay:RESult:EALarm:MODE :DISPlay:RESult:EALarm:MODE?	Vol.2, 10-332
[4]	:CALCulate:DATA?	Vol.2, 10-473

4.2.2 Error/Alarm Sub Screen (2)

Mapping	SDH/PDH	Tx&Rx	Out-of-service	Time 18:42:31 25/Jan/2000
Tx&Rx STM4 -AUG#01-AU4-VC4-TUG3#1-TU3-VC3-34M(Async.)				
Test menu	Manual	[SDH]		
Test Patt	[PRBS1]	Invert	[ON]	
Alarm	[LOF]	[All]		
Error	[B1]	[Prog.rate]		
		[1.0E-10]		
K1 Bit1-4	[000], Do not revert			
Bit5-8	[0010, Working #2			
K2 Bit1-4	[0000, Null CH			
Bit5-8	[0, 1+1] [000]			
PTR AU	[0110 10][0] <input type="checkbox"/> <input type="checkbox"/>			
TU	[0110 10][0] <input type="checkbox"/> <input type="checkbox"/>			
Payload offset	[C bit][0.0]ppm			
Mode	[Manual]			
PRG start	[ON] [18:48:00 25/Jan/2000]			
Result	Error/Alarm	Start		
Alarm [Second]	Error [Count]	Display data [Current]	[SDH]	[1]
Section	HP(AU)	LP(TU)	PDH	
P-fail	oAIS	oAIS	oAIS 34M	
LOS	oLOP	oLOP		
LOF	oRDI	oRDI		
DOF	oSLM	oSLM		
AIS	o			
RDI	o			
	oTIM	oTIM		Sync. -----o
	oUNEQ	oUNEQ		
B1	oB3	oB3		
B2	o			
	oREI	oREI		Bit -----o

No.	Command	Page of manual
[1]	:DISPlay:RESult:EALarm:DISPmode :DISPlay:RESult:EALarm:DISPmode?	Vol.2, 10-333

4.3 Justification Sub Screen



No.	Command	Page of manual
[1]	:DISPlay:RESult:TIME :DISPlay:RESult:TIME?	Vol.2, 10-344
[2]	:DISPlay:RESult[:NAME] :DISPlay:RESult[:NAME]?	Vol.2, 10-331, 332
[3]	:DISPlay:RESult:JUSTificat:UNIT :DISPlay:RESult:JUSTificat:UNIT?	Vol.2, 10-335
[4]	:CALCulate:DATA?	Vol.2, 10-473
[5]	:SENSe:MEASure:STIME? :SENSe:MEASure:ELAPsed?	Vol.2, 10-263
[6]	:DISPlay:RESult:JUSTificat:MODE :DISPlay:RESult:JUSTificat:MODE?	Vol.2, 10-334

4.4 Zoom Sub Screen



No.	Command	Page of manual
[1]	:DISPlay:RESult:ZOOM:AUNit :DISPlay:RESult:ZOOM:AUNit?	Vol.2, 10-336
[2]	:DISPlay:RESult:ZOOM:ALARm :DISPlay:RESult:ZOOM:ALARm?	Vol.2, 10-336, 338
[3]	:DISPlay:RESult:ZOOM:ERRor :DISPlay:RESult:ZOOM:ERRor?	Vol.2, 10-338, 339
[4]	:DISPlay:RESult:PERFormance:MODE :DISPlay:RESult:PERFormance:MODE?	Vol.2, 10-339, 340
[5]	:DISPlay:RESult:ZOOM:UNIT :DISPlay:RESult:ZOOM:UNIT?	Vol.2, 10-335, 336
[6]	:CALCulate:DATA?	Vol.2, 10-473

4.5 Performance Sub Screen

4.5.1 Performance Sub Screen (1)

Mapping	SDH/PDH	Tx&Rx	Out-of-service	Time 02:42:28 10/Sep/2001
Tx&Rx STM16-AUG#01-AU4-VC4-139M(Async.)				
Result	Performance	Start 02:41:32 10/Sep/2001		
G.821		Display data [Current] ← [2]		
EC	0		0.0000	%
ES	0	Annex-D %ES	0.0000	%
EFS	1		100.0000	%
SES	1		100.0000	%
US	0		0.0000	%
DM	0		0.0000	%

[1] →

No.	Command	Page of manual
[1]	:CALCulate:DATA?	Vol.2, 10-473
[2]	:DISPlay:RESult:PERFormance:MODE :DISPlay:RESult:PERFormance:MODE?	Vol.2, 10-339, 340

4.5.2 Performance Sub Screen (2)

```

Mapping      SDH/PDH Tx&Rx      In-service      Time 21:07:58 01/Feb/2000
Tx&Rx
STM1 -AUG#01-AU4-VC4-TUG3#1-TUG2#1-TU12#1-VC12-2M(Async.)-64k#01*01
MixCH]
Result      Performance      Start 21:07:42 01/Feb/2000
G.826      Display data [Current] ← [3]
[1] → Error [ BIP ]
    
```

	B1	B2	HP-B3	BIP2
ES	1	1	1	1
SES	1	1	1	1
BBE	0	0	0	0
ESR	1.0E-00	1.0E-00	1.0E-00	1.0E-00
SESR	1.0E-00	1.0E-00	1.0E-00	1.0E-00
BBER	0.0E-00	0.0E-00	0.0E-00	0.0E-00
SDP	1	1	1	1
US	0	0	0	0

[2] →

No.	Command	Page of manual
[1]	:DISPlay:RESult:PERFormance:ERRor[:G826] :DISPlay:RESult:PERFormance:ERRor[:G826]?	Vol.2, 10-340, 341
[2]	:CALCulate:DATA?	Vol.2, 10-473
[3]	:DISPlay:RESult:PERFormance:MODE :DISPlay:RESult:PERFormance:MODE?	Vol.2, 10-339, 340

4.5.3 Performance Sub Screen (3)

The screenshot shows the Performance Sub Screen (3) with the following content:

```

Mapping | SDH/PDH | Tx&Rx | In-service | Time 20:53:03 01/Feb/2000
Tx&Rx
STM1 -AUG#01-AU4-VC4-TUG3#1-TUG2#1-TU12#1-VC12-2M(Async.)-64k#01*01
MixCH]
Result | Performance | Start
M. 2100 | Display data [Current]
Rx threshold | Tx threshold
ES [ON ] S1[ 0] S2[ 1] | ES [ON ] S1[ 0] S2[ 1]
SES [ON ] S1[ 0] S2[ 1] | SES [ON ] S1[ 0] S2[ 1]
US [ON ] S1[ 0] S2[ 1] | US [ON ] S1[ 0] S2[ 1]
Rx | Tx
ES | ES
SES | SES
US | US
Test | Test
    
```

Callouts [1] to [17] indicate the following elements:

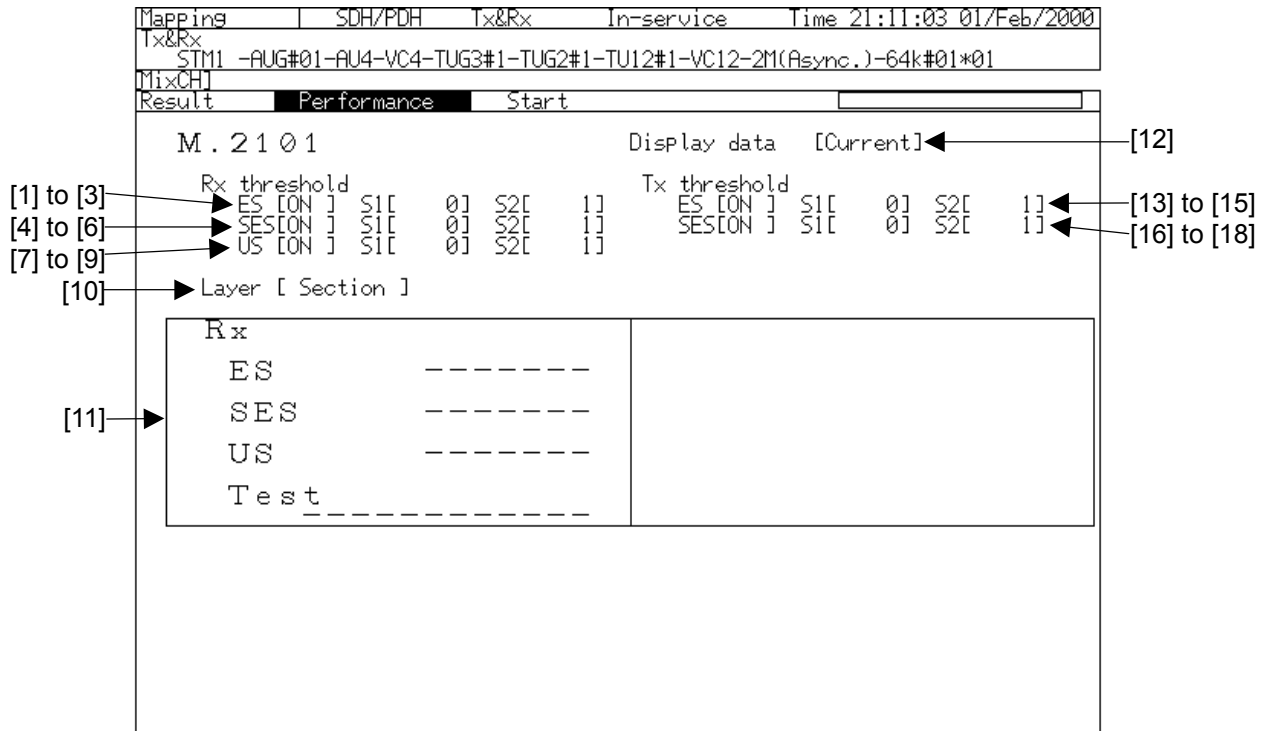
- [1] to [3]: Rx threshold parameters (ES, SES, US)
- [4] to [6]: SES parameters (S1, S2)
- [7] to [9]: US parameters (S1, S2)
- [10]: Rx and Tx comparison table
- [11]: Display data [Current]
- [12] to [14]: Tx threshold parameters (ES, SES, US)
- [15] to [17]: SES parameters (S1, S2)

No.	Command	Page of manual
[1]	:CALCulate:TELEcom:PERFormance:THReshold:M2100:ES:SET :CALCulate:TELEcom:PERFormance:THReshold:M2100:ES:SET?	Vol.2, 10-448
[2]	:CALCulate:TELEcom:PERFormance:THReshold:M2100:ES:S1 :CALCulate:TELEcom:PERFormance:THReshold:M2100:ES:S1?	Vol.2, 10-449
[3]	:CALCulate:TELEcom:PERFormance:THReshold:M2100:ES:S2 :CALCulate:TELEcom:PERFormance:THReshold:M2100:ES:S2?	Vol.2, 10-449
[4]	:CALCulate:TELEcom:PERFormance:THReshold:M2100:SES:SET :CALCulate:TELEcom:PERFormance:THReshold:M2100:SES:SET?	Vol.2, 10-450
[5]	:CALCulate:TELEcom:PERFormance:THReshold:M2100:SES:S1 :CALCulate:TELEcom:PERFormance:THReshold:M2100:SES:S1?	Vol.2, 10-450
[6]	:CALCulate:TELEcom:PERFormance:THReshold:M2100:SES:S2 :CALCulate:TELEcom:PERFormance:THReshold:M2100:SES:S2?	Vol.2, 10-451
[7]	:CALCulate:TELEcom:PERFormance:THReshold:M2100:US:SET :CALCulate:TELEcom:PERFormance:THReshold:M2100:US:SET?	Vol.2, 10-451
[8]	:CALCulate:TELEcom:PERFormance:THReshold:M2100:US:S1 :CALCulate:TELEcom:PERFormance:THReshold:M2100:US:S1?	Vol.2, 10-452
[9]	:CALCulate:TELEcom:PERFormance:THReshold:M2100:US:S2 :CALCulate:TELEcom:PERFormance:THReshold:M2100:US:S2?	Vol.2, 10-452
[10]	:CALCulate:DATA?	Vol.2, 10-473
[11]	:DISPlay:RESult:PERFormance:MODE :DISPlay:RESult:PERFormance:MODE?	Vol.2, 10-339, 340

Section 4 Result Main Screen

No.	Command	Page of manual
[12]	:CALCulate:TELEcom:PERFormance:THReshold:M2100:TXES:SET :CALCulate:TELEcom:PERFormance:THReshold:M2100:TXES:SET?	Vol.2, 10-453
[13]	:CALCulate:TELEcom:PERFormance:THReshold:M2100:TXES:S1 :CALCulate:TELEcom:PERFormance:THReshold:M2100:TXES:S1?	Vol.2, 10-453, 454
[14]	:CALCulate:TELEcom:PERFormance:THReshold:M2100:TXES:S2 :CALCulate:TELEcom:PERFormance:THReshold:M2100:TXES:S2?	Vol.2, 10-454
[15]	:CALCulate:TELEcom:PERFormance:THReshold:M2100:TXSES:SET :CALCulate:TELEcom:PERFormance:THReshold:M2100:TXSES:SET?	Vol.2, 10-454, 455
[16]	:CALCulate:TELEcom:PERFormance:THReshold:M2100:TXSES:S1 :CALCulate:TELEcom:PERFormance:THReshold:M2100:TXSES:S1?	Vol.2, 10-455
[17]	:CALCulate:TELEcom:PERFormance:THReshold:M2100:TXSES:S2 :CALCulate:TELEcom:PERFormance:THReshold:M2100:TXSES:S2?	Vol.2, 10-455, 456

4.5.4 Performance Sub Screen (4)



No.	Command	Page of manual
[1]	:CALCulate:TELEcom:PERFormance:THReshold:M2101:ES:SET :CALCulate:TELEcom:PERFormance:THReshold:M2101:ES:SET?	Vol.2, 10-456
[2]	:CALCulate:TELEcom:PERFormance:THReshold:M2101:ES:S1 :CALCulate:TELEcom:PERFormance:THReshold:M2101:ES:S1?	Vol.2, 10-457
[3]	:CALCulate:TELEcom:PERFormance:THReshold:M2101:ES:S2 :CALCulate:TELEcom:PERFormance:THReshold:M2101:ES:S2?	Vol.2, 10-457
[4]	:CALCulate:TELEcom:PERFormance:THReshold:M2101:SES:SET :CALCulate:TELEcom:PERFormance:THReshold:M2101:SES:SET?	Vol.2, 10-458
[5]	:CALCulate:TELEcom:PERFormance:THReshold:M2101:SES:S1 :CALCulate:TELEcom:PERFormance:THReshold:M2101:SES:S1?	Vol.2, 10-458
[6]	:CALCulate:TELEcom:PERFormance:THReshold:M2101:SES:S2 :CALCulate:TELEcom:PERFormance:THReshold:M2101:SES:S2?	Vol.2, 10-459
[7]	:CALCulate:TELEcom:PERFormance:THReshold:M2101:US:SET :CALCulate:TELEcom:PERFormance:THReshold:M2101:US:SET?	Vol.2, 10-459
[8]	:CALCulate:TELEcom:PERFormance:THReshold:M2101:US:S1 :CALCulate:TELEcom:PERFormance:THReshold:M2101:US:S1?	Vol.2, 10-460
[9]	:CALCulate:TELEcom:PERFormance:THReshold:M2101:US:S2 :CALCulate:TELEcom:PERFormance:THReshold:M2101:US:S2?	Vol.2, 10-460
[10]	:DISPlay:RESult:PERFormance:ERRor:M2101 :DISPlay:RESult:PERFormance:ERRor:M2101?	Vol.2, 10-341
[11]	:CALCulate:DATA?	Vol.2, 10-473

Section 4 Result Main Screen

No.	Command	Page of manual
[12]	:DISPlay:RESult:PERFormance:MODE :DISPlay:RESult:PERFormance:MODE?	Vol.2, 10-339, 340
[13]	:CALCulate:TELEcom:PERFormance:THReshold:M2101:TXES:SET :CALCulate:TELEcom:PERFormance:THReshold:M2101:TXES:SET?	Vol.2, 10-461
[14]	:CALCulate:TELEcom:PERFormance:THReshold:M2101:TXES:S1 :CALCulate:TELEcom:PERFormance:THReshold:M2101:TXES:S1?	Vol.2, 10-461, 462
[15]	:CALCulate:TELEcom:PERFormance:THReshold:M2101:TXES:S2 :CALCulate:TELEcom:PERFormance:THReshold:M2101:TXES:S2?	Vol.2, 10-462
[16]	:CALCulate:TELEcom:PERFormance:THReshold:M2101:TXSES:SET :CALCulate:TELEcom:PERFormance:THReshold:M2101:TXSES:SET?	Vol.2, 10-462, 463
[17]	:CALCulate:TELEcom:PERFormance:THReshold:M2101:TXSES:S1 :CALCulate:TELEcom:PERFormance:THReshold:M2101:TXSES:S1?	Vol.2, 10-463
[18]	:CALCulate:TELEcom:PERFormance:THReshold:M2101:TXSES:S2 :CALCulate:TELEcom:PERFormance:THReshold:M2101:TXSES:S2?	Vol.2, 10-463, 464

4.5.5 Performance Sub Screen (5)

The screenshot shows the Performance Sub Screen (5) with the following content:

```

Mapping      SDH/PDH  Tx&Rx      In-service  Time 21:19:47 01/Feb/2000
Tx&Rx
STM1 -AUG#01-AU4-VC4-TUG3#1-TUG2#1-TU12#1-VC12-2M(Async.)-64k#01*01
MixCH]
Result      Performance  Start
[1] M. 2110 Display data [Current] [17]
[2] Layer [ SDH ] [Section ]
[3] BIS limits [Path allocation] [ 0.5] [18]
[4] to [9] ES S1: 0 S2: 2 S1: 3 S2: 15 S1: 45 S2: 76
[10] to [15] SES S1: 0 S2: 1 S1: 0 S2: 5 S1: 7 S2: 23
Rx
2-hour -----
24-hour -----
[16] 7-day -----
ES -----
SES -----
US -----
    
```

No.	Command	Page of manual
[1]	:DISPlay:RESult:PERFormance:ERRor:M2110:LAYer2 :DISPlay:RESult:PERFormance:ERRor:M2110:LAYer2?	Vol.2, 10-343
[2]	:DISPlay:RESult:PERFormance:ERRor:M2110:LAYer1 :DISPlay:RESult:PERFormance:ERRor:M2110:LAYer1?	Vol.2, 10-343
[3]	:CALCulate:TELEcom:PERFormance:THReshold:M2110:TYPe :CALCulate:TELEcom:PERFormance:THReshold:M2110:TYPe?	Vol.2, 10-464
[4]	:CALCulate:TELEcom:PERFormance:THReshold:M2110:ES:H2S1 :CALCulate:TELEcom:PERFormance:THReshold:M2110:ES:H2S1?	Vol.2, 10-465
[5]	:CALCulate:TELEcom:PERFormance:THReshold:M2110:ES:H2S2 :CALCulate:TELEcom:PERFormance:THReshold:M2110:ES:H2S2?	Vol.2, 10-465, 466
[6]	:CALCulate:TELEcom:PERFormance:THReshold:M2110:ES:H24S1 :CALCulate:TELEcom:PERFormance:THReshold:M2110:ES:H24S1?	Vol.2, 10-466
[7]	:CALCulate:TELEcom:PERFormance:THReshold:M2110:ES:H24S2 :CALCulate:TELEcom:PERFormance:THReshold:M2110:ES:H24S2?	Vol.2, 10-466
[8]	:CALCulate:TELEcom:PERFormance:THReshold:M2110:ES:D7S1 :CALCulate:TELEcom:PERFormance:THReshold:M2110:ES:D7S1?	Vol.2, 10-467
[9]	:CALCulate:TELEcom:PERFormance:THReshold:M2110:ES:D7S2 :CALCulate:TELEcom:PERFormance:THReshold:M2110:ES:D7S2?	Vol.2, 10-467
[10]	:CALCulate:TELEcom:PERFormance:THReshold:M2110:SES:H2S1 :CALCulate:TELEcom:PERFormance:THReshold:M2110:SES:H2S1?	Vol.2, 10-468
[11]	:CALCulate:TELEcom:PERFormance:THReshold:M2110:SES:H2S2 :CALCulate:TELEcom:PERFormance:THReshold:M2110:SES:H2S2?	Vol.2, 10-468

Section 4 Result Main Screen

No.	Command	Page of manual
[12]	:CALCulate:TELEcom:PERFormance:THReshold:M2110:SES:H24S1 :CALCulate:TELEcom:PERFormance:THReshold:M2110:SES:H24S1?	Vol.2, 10-468, 469
[13]	:CALCulate:TELEcom:PERFormance:THReshold:M2110:SES:H24S2 :CALCulate:TELEcom:PERFormance:THReshold:M2110:SES:H24S2?	Vol.2, 10-469
[14]	:CALCulate:TELEcom:PERFormance:THReshold:M2110:SES:D7S1 :CALCulate:TELEcom:PERFormance:THReshold:M2110:SES:D7S1?	Vol.2, 10-469, 470
[15]	:CALCulate:TELEcom:PERFormance:THReshold:M2110:SES:D7S2 :CALCulate:TELEcom:PERFormance:THReshold:M2110:SES:D7S2?	Vol.2, 10-470
[16]	:CALCulate:DATA?	Vol.2, 10-473
[17]	:DISPlay:RESult:PERFormance:MODE :DISPlay:RESult:PERFormance:MODE?	Vol.2, 10-339, 340
[18]	:CALCulate:TELEcom:PERFormance:THReshold:M2110:LIMit :CALCulate:TELEcom:PERFormance:THReshold:M2110:LIMit?	Vol.2, 10-464, 465

4.5.6 Performance Sub Screen (6)

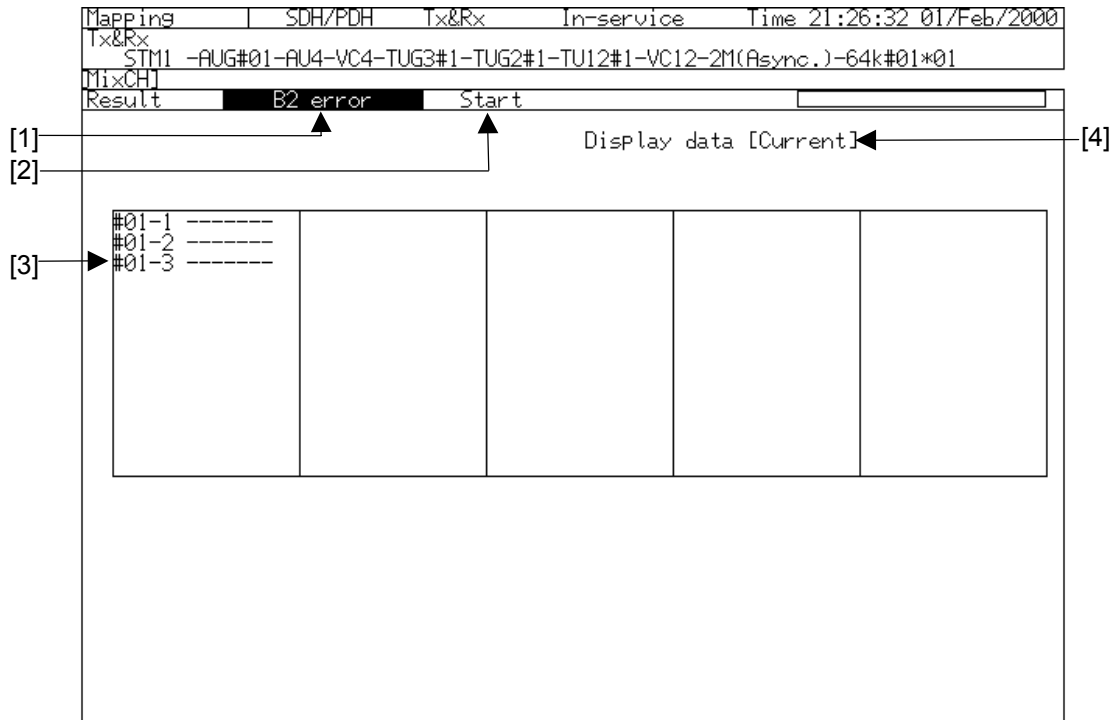
The screenshot shows the Performance Sub Screen (6) with the following details:

- Header: Mapping | SDH/PDH Tx&Rx | In-service | Time 21:23:26 01/Feb/2000
- Line: STM1 -AUG#01-AU4-VC4-TUG3#1-TUG2#1-TU12#1-VC12-2M(Async.)-64k#01*01
- MixCH1 | Result | Performance | Start
- Display data [Current]
- M. 2120
- Layer [SDH] [Section]
- Threshold [Path allocation] [0.5]%, [75]%,(xAP0)
- TR1(15-minute) TR2(24-hour)
- ES 50 6
- SES 10 0
- Rx table:

TR1-ES	-----
TR1-SES	-----
TR2-ES	-----
TR2-SES	-----
ES	-----
SES	-----
US	-----

No.	Command	Page of manual
[1]	:DISPlay:RESult:PERFormance:ERRor:M2120:LAYer2 :DISPlay:RESult:PERFormance:ERRor:M2120:LAYer2?	Vol.2, 10-343
[2]	:DISPlay:RESult:PERFormance:ERRor:M2120:LAYer1 :DISPlay:RESult:PERFormance:ERRor:M2120:LAYer1?	Vol.2, 10-343
[3]	:CALCulate:TELEcom:PERFormance:THReshold:M2120:TYPe :CALCulate:TELEcom:PERFormance:THReshold:M2120:TYPe?	Vol.2, 10-470, 471
[4]	:CALCulate:TELEcom:PERFormance:THReshold:M2120:ES:TR1 :CALCulate:TELEcom:PERFormance:THReshold:M2120:ES:TR1?	Vol.2, 10-472
[5]	:CALCulate:TELEcom:PERFormance:THReshold:M2120:SES:TR1 :CALCulate:TELEcom:PERFormance:THReshold:M2120:SES:TR1?	Vol.2, 10-472, 473
[6]	:CALCulate:DATA?	Vol.2, 10-473
[7]	:DISPlay:RESult:PERFormance:MODE :DISPlay:RESult:PERFormance:MODE?	Vol.2, 10-339, 340
[8]	:CALCulate:TELEcom:PERFormance:THReshold:M2120:LIMit1 :CALCulate:TELEcom:PERFormance:THReshold:M2120:LIMit1?	Vol.2, 10-471
[9]	:CALCulate:TELEcom:PERFormance:THReshold:M2120:LIMit2 :CALCulate:TELEcom:PERFormance:THReshold:M2120:LIMit2?	Vol.2, 10-471
[10]	:CALCulate:TELEcom:PERFormance:THReshold:M2120:ES:TR2 :CALCulate:TELEcom:PERFormance:THReshold:M2120:ES:TR2?	Vol.2, 10-472
[11]	:CALCulate:TELEcom:PERFormance:THReshold:M2120:ES:TR2 :CALCulate:TELEcom:PERFormance:THReshold:M2120:ES:TR2?	Vol.2, 10-472

4.6 B2 Error Sub Screen



No.	Command	Page of manual
[1]	:DISPlay:RESult[:NAME] :DISPlay:RESult[:NAME]?	Vol.2, 10-331, 332
[2]	:DISPlay:RESult:TIME :DISPlay:RESult:TIME?	Vol.2, 10-344
[3]	:CALCulate:DATA?	Vol.2, 10-473
[4]	:DISPlay:RESult:B2:MODE :DISPlay:RESult:B2:MODE?	Vol.2, 10-344

4.7 Simultaneous Sub Screen

```

Mapping      SDH/PDH  Tx&Rx      In-service  Time 21:28:39 01/Feb/2000
Tx&Rx
  STM1 -AUG#01-AU4-VC4-TUG3#1-TUG2#1-TU12#1-VC12-2M(Async.)-64k#01*01
MixCH1
Result      Simultaneous  Start
[1] → Display data [Current]

(Section)
(HP(AU))
TUG2#      1      2      3      4      5      6      7
TU12#
AIS        0 0 0    0 0 0    0 0 0    0 0 0    0 0 0    0 0 0    0 0 0
LOP        0 0 0    0 0 0    0 0 0    0 0 0    0 0 0    0 0 0    0 0 0
RDI        0 0 0    0 0 0    0 0 0    0 0 0    0 0 0    0 0 0    0 0 0
RFI        0 0 0    0 0 0    0 0 0    0 0 0    0 0 0    0 0 0    0 0 0
BIP2       0 0 0    0 0 0    0 0 0    0 0 0    0 0 0    0 0 0    0 0 0
REI        0 0 0    0 0 0    0 0 0    0 0 0    0 0 0    0 0 0    0 0 0
[2] →
  
```

No.	Command	Page of manual
[1]	:DISPlay:RESult:SIMultaneous:DISPdata :DISPlay:RESult:SIMultaneous:DISPdata?	Vol.2, 10-343, 344
[2]	:CALCulate:SIMultaneous:DATA?	Vol.2, 10-493

4.8 Delay Sub Screen

Mapping	SDH/PDH	Tx&Rx	Out-of-service	Time 21:42:37 01/Feb/2000
Tx&Rx	STM1 -AUG#01-AU4-VC4-139M(Async.)-34M#1-8M#1-2M#1-64k#01*01			
Result	Delay	Start		
[1] → ○	---	μs	Min	---
			Max	---
				μs

No.	Command	Page of manual
[1]	:CALCulate:DATA?	Vol.2, 10-473

4.9 APS Test Sub Screen

Mapping	SDH/PDH	Tx&Rx	Out-of-service	Time 22:02:33 01/Feb/2000
Tx&Rx	STM1 -AUG#01-AU4-VC4-139M(Async.)-34M#1-8M#1-2M#1-64k#01*01			
Result	APS test	Start		
[1]	Switch time ▶ No data			

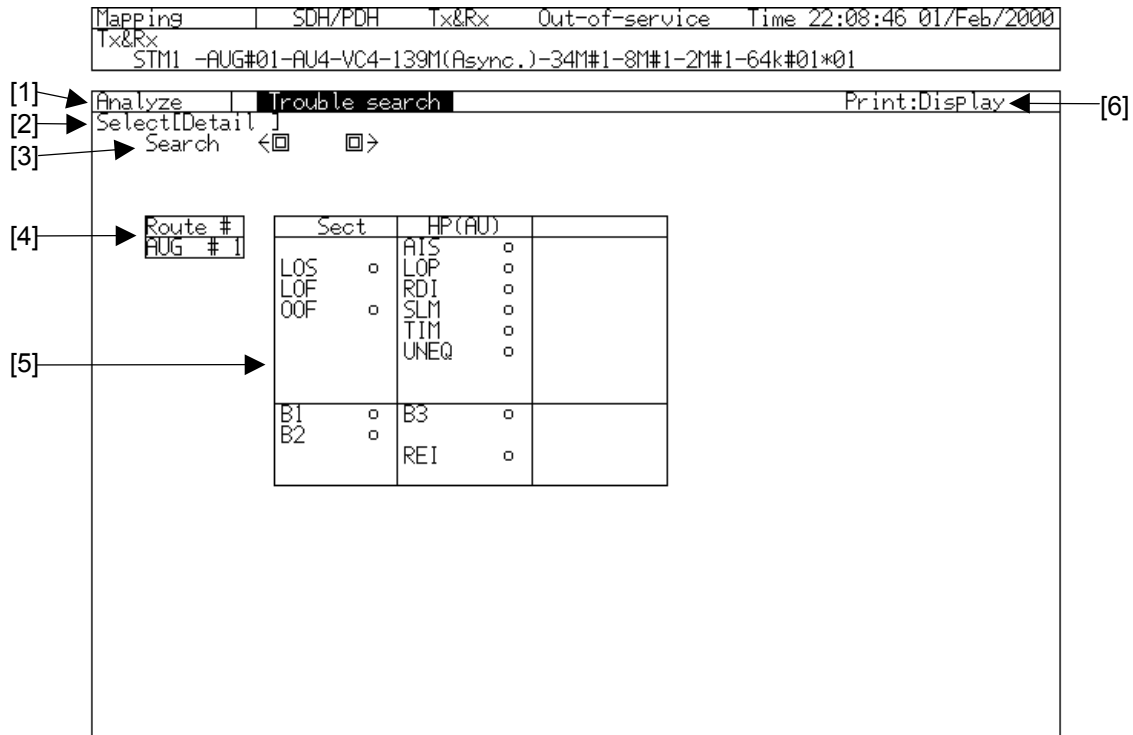
No.	Command	Page of manual
[1]	:CALCulate:DATA?	Vol.2, 10-473

Section 5 Analyze Main Screen

5.1	Trouble Search Sub Screen	5-2
5.1.1	Trouble Search Sub Screen (1)	5-2
5.1.2	Trouble Search Sub Screen (2)	5-3
5.2	Error/Alarm Sub Screen	5-4
5.3	OH Monitor Sub Screen	5-6
5.3.1	OH Monitor Sub Screen (1)	5-6
5.3.2	OH Monitor Sub Screen (2)	5-7
5.3.3	OH Monitor Sub Screen (3)	5-8
5.3.4	OH Monitor Sub Screen (4)	5-9
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5.3.6	OH Monitor Sub Screen (6)	5-11
5.3.7	OH Monitor Sub Screen (7)	5-12
5.3.8	OH Monitor Sub Screen (8)	5-13
5.3.9	OH Monitor Sub Screen (9)	5-14
5.4	Opt. Power Meter Sub Screen	5-15
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5.5.1	OH Capture Sub Screen (1).....	5-16
5.5.2	OH Capture Sub Screen (2).....	5-17
5.5.3	OH Capture Sub Screen (3).....	5-18
5.5.4	OH Capture Sub Screen (4).....	5-19
5.5.5	OH Capture Sub Screen (5).....	5-20
5.6	APS Capture Sub Screen.....	5-21
5.6.1	APS Capture Sub Screen (1).....	5-21
5.6.2	APS Capture Sub Screen (2).....	5-22
5.7	Pointer Monitor Sub Screen	5-23
5.7.1	Pointer Monitor Sub Screen (1)	5-23
5.7.2	Pointer Monitor Sub Screen (2)	5-24
5.8	Frame Capture Sub Screen	5-25
5.8.1	Frame Capture Sub Screen (1).....	5-25
5.8.2	Frame Capture Sub Screen (2).....	5-26
5.9	Freq. Monitor Sub Screen	5-27
5.10	Frequency Sub Screen.....	5-28
5.11	Sequence Test Sub Screen	5-29

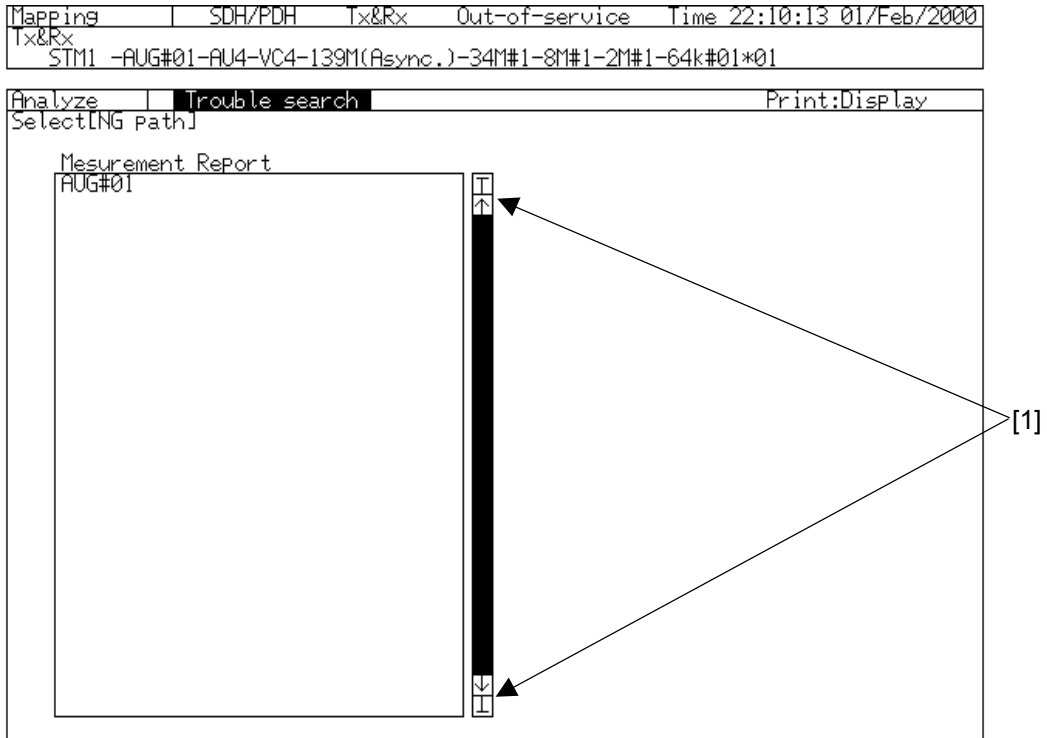
5.1 Trouble Search Sub Screen

5.1.1 Trouble Search Sub Screen (1)



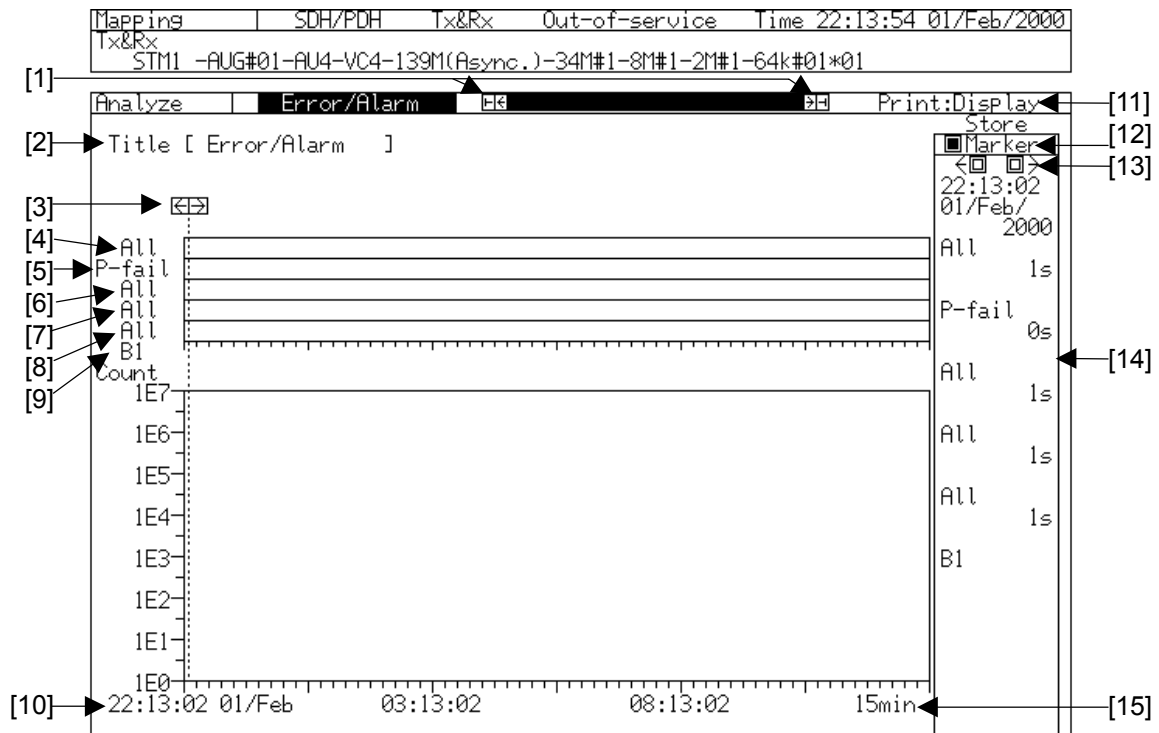
No.	Command	Page of manual
[1]	:DISPlay:ANALySis[:NAME] :DISPlay:ANALySis[:NAME]?	Vol.2, 10-354, 355
[2]	:DISPlay:ANALySis:TSEarch:SElect :DISPlay:ANALySis:TSEarch:SElect?	Vol.2, 10-355, 356
[3]	:DISPlay:ANALySis:TSEarch:SEARCh	Vol.2, 10-356
[4]	:DISPlay:ANALySis:TSEarch:ROUte :DISPlay:ANALySis:TSEarch:ROUte?	Vol.2, 10-356, 358
[5]	:DISPlay:ANALySis:TSEarch:DATA?	Vol.2, 10-359
[6]	:DISPlay:ANALySis:TSEarch:PRINt :DISPlay:ANALySis:TSEarch:PRINt?	Vol.2, 10-361

5.1.2 Trouble Search Sub Screen (2)



No.	Command	Page of manual
[1]	:DISPlay:ANALysis:TSEarch:SCRoll	Vol.2, 10-362

5.2 Error/Alarm Sub Screen



No.	Command	Page of manual
[1]	:DISPlay:ANALYsis:TGRaph:SCRoll	Vol.2, 10-362
[2]	:DISPlay:ANALYsis:TGRaph:TITLe :DISPlay:ANALYsis:TGRaph:TITLe?	Vol.2, 10-371
[3]	:DISPlay:ANALYsis:TGRaph:MARKer	Vol.2, 10-362
[4]	:DISPlay:ANALYsis:TGRaph:ALARm1 :DISPlay:ANALYsis:TGRaph:ALARm1?	Vol.2, 10-367, 369
[5]	:DISPlay:ANALYsis:TGRaph:ALARm2 :DISPlay:ANALYsis:TGRaph:ALARm2?	Vol.2, 10-369
[6]	:DISPlay:ANALYsis:TGRaph:ALARm3 :DISPlay:ANALYsis:TGRaph:ALARm3?	Vol.2, 10-369
[7]	:DISPlay:ANALYsis:TGRaph:ALARm4 :DISPlay:ANALYsis:TGRaph:ALARm4?	Vol.2, 10-370
[8]	:DISPlay:ANALYsis:TGRaph:ALARm5 :DISPlay:ANALYsis:TGRaph:ALARm5?	Vol.2, 10-370
[9]	:DISPlay:ANALYsis:TGRaph:ERRor :DISPlay:ANALYsis:TGRaph:ERRor?	Vol.2, 10-366, 367
[10]	:DISPlay:ANALYsis:TGRaph:FROM :DISPlay:ANALYsis:TGRaph:FROM?	Vol.2, 10-365, 366
[11]	:DISPlay:ANALYsis:TGRaph:PRINt :DISPlay:ANALYsis:TGRaph:PRINt?	Vol.2, 10-370

5.2 Error/Alarm Sub Screen

No.	Command	Page of manual
[12]	:DISPlay:ANALysis:TGRaph:MDISplay :DISPlay:ANALysis:TGRaph:MDISplay?	Vol.2, 10-364, 365
[13]	:DISPlay:ANALysis:TGRaph:SEARCh	Vol.2, 10-365
[14]	:DISPlay:ANALysis:TGRaph:DATA?	Vol.2, 10-362
[15]	:DISPlay:ANALysis:TGRaph:INTerval :DISPlay:ANALysis:TGRaph:INTerval?	Vol.2, 10-364

5.3 OH Monitor Sub Screen

5.3.1 OH Monitor Sub Screen (1)

Mapping SDH/PDH Tx&Rx Out-of-service Time 20:51:01 25/Jan/2000
Tx&Rx STM4 -AUG#01-AU4-VC4-TUG3#1-TU3-VC3-34M(Async.)

[1] → Analyze OH monitor

[2] → Type [OH] Pause ← [7]

[3] → SOH # [1] POH POH ← [8]
VC4 VC3

1	5	9	13	17	21	25	29	33	J100	J100
F6	F6	F6	28	28	28	01	AA	AA	B31E	B389
2D7	00	00	00	00	00	00	00	00	C202	C204
300	00	00	00	00	00	00	00	00	G100	G100
468	9B	9B	00	FF	FF	00	00	00	F200	F200
566	BA	ED	12	00	00	00	00	00	H400	H400
600	00	00	00	00	00	00	00	00	F300	F300
700	00	00	00	00	00	00	00	00	K300	K300
800	00	00	00	00	00	00	00	00	N100	N100
900	00	00	00	00	00	00	00	00		

[4] →

[5] → S1 : Quality Unknown
VC4 C2 : TUG structure G1 : No remote defect
VC3 C2 : Async. 34M or 45M(C-3) G1 : No remote defect ← [9]

[6] →

No.	Command	Page of manual
[1]	:DISPlay:ANALysis[:NAME] :DISPlay:ANALysis[:NAME]?	Vol.2, 10-354, 355
[2]	:DISPlay:ANALysis:OHMonitor:TYPE :DISPlay:ANALysis:OHMonitor:TYPE?	Vol.2, 10-371, 372
[3]	:DISPlay:ANALysis:OHMonitor:SOHCh :DISPlay:ANALysis:OHMonitor:SOHCh? :DISPlay:ANALysis:OHMonitor:TOHCh :DISPlay:ANALysis:OHMonitor:TOHCh?	Vol.2, 10-372
[4]	:DISPlay:ANALysis:OHMonitor:SOHData? :DISPlay:ANALysis:OHMonitor:TOHData?	Vol.2, 10-373
[5]	:DISPlay:ANALysis:OHMonitor:SSMessage?	Vol.2, 10-373
[6]	:DISPlay:ANALysis:OHMonitor:SLABel? :DISPlay:ANALysis:OHMonitor:PLABel?	Vol.2, 10-374
[7]	:DISPlay:ANALysis:OHMonitor:PAUSE :DISPlay:ANALysis:OHMonitor:PAUSE?	Vol.2, 10-384, 385
[8]	:DISPlay:ANALysis:OHMonitor:POHData?	Vol.2, 10-374
[9]	:DISPlay:ANALysis:OHMonitor:G1Label?	Vol.2, 10-376

5.3.2 OH Monitor Sub Screen (2)

Mapping	SDH/PDH	Tx&Rx	Out-of-service	Time 22:39:15 25/Jan/2000
Tx&Rx				
STM4 -AUG#01-AU4-VC4-TUG3#1-TUG2#1-TU12#1-VC11-1.5M(Async.)				

Analyze	OH monitor
Type [OH]	<input type="checkbox"/> Pause
SOH # [1]	POH VC4 POH VC1
1 F6 F6 28 28 28 01 AA AA J100 V5C4	
226 00 00 00 00 00 00 00 00 B30F J200	
300 00 00 00 00 00 00 00 00 C202 N200	
468 9B 9B 00 FF FF 00 00 00 G100 K400	
564 65 1D 12 00 00 00 00 00 F200	
600 00 00 00 00 00 00 00 00 H401	
700 00 00 00 00 00 00 00 00 F300	
800 00 00 00 00 00 00 00 00 K300	
900 00 00 00 00 00 00 00 00 N100	
S1 : Quality Unknown VC4 C2 : TUG structure VC1 V5 : Asynchronous G1 : No remote defect K4 : No remote defect	

[1] →

← [2]

No.	Command	Page of manual
[1]	:DISPlay:ANALYsis:OHMonitor:VLabel?	Vol.2, 10-375
[2]	:DISPlay:ANALYsis:OHMonitor:K4Label? :DISPlay:ANALYsis:OHMonitor:Z7Label?	Vol.2, 10-376

5.3.3 OH Monitor Sub Screen (3)

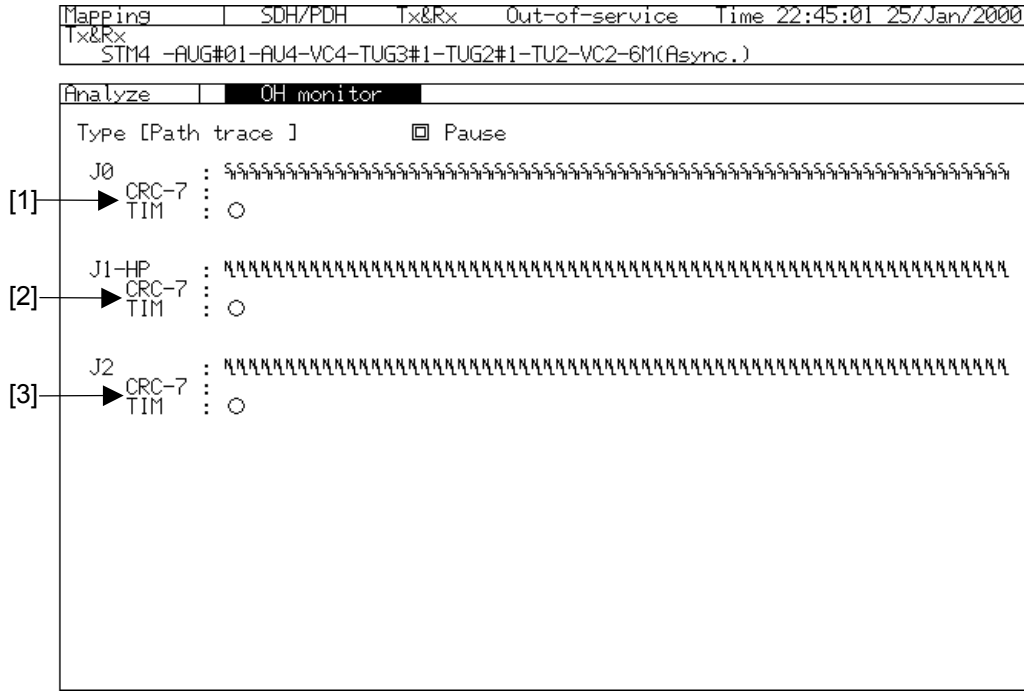
```

Mapping | SDH/PDH Tx&Rx Out-of-service Time 22:43:33 25/Jan/2000
Tx&Rx
STM4 -AUG#01-AU4-VC4-TUG3#1-TUG2#1-TU2-VC2-6M(Async.)

Analyze | OH monitor
Type [PTR,K1/K2]  Pause
K1 Bit1-4 : 0001 Do not revert
   Bit5-8 : 0010 Working #2
[1] → K2 Bit1-4 : 0000 NULL CH
   Bit5 : 0 1+1 architecture
   Bit6-8 : 000 Reserved
[2] → AU PTR : 0110 10 0
   TU PTR : 0110 00 0
    
```

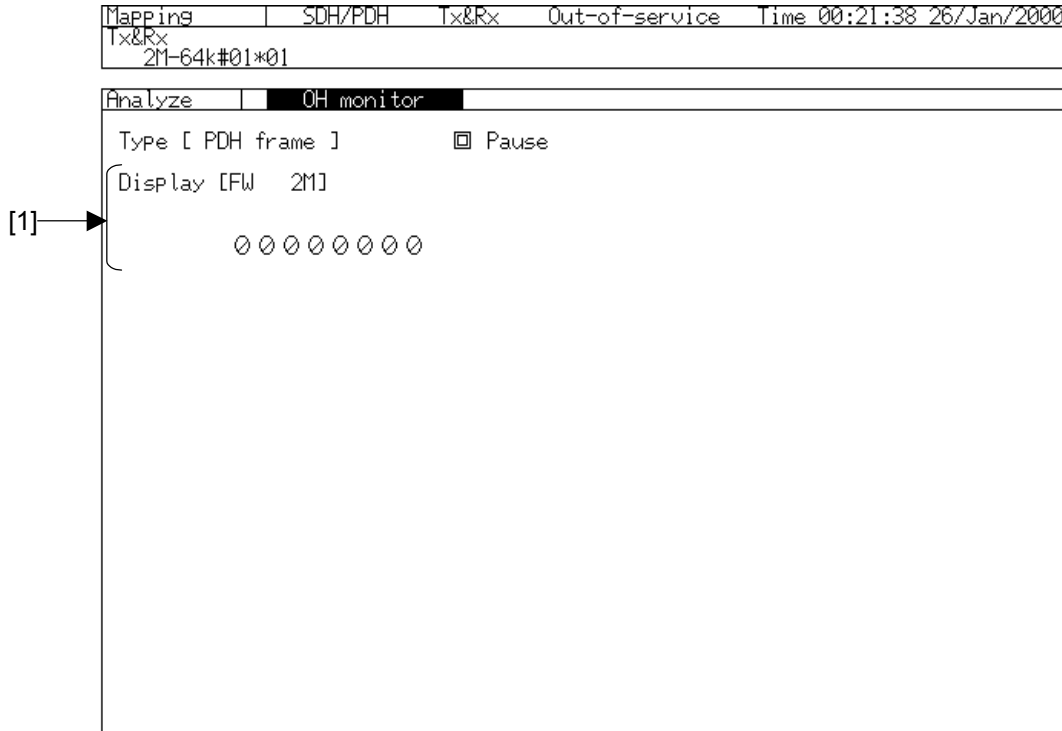
No.	Command	Page of manual
[1]	:DISPlay:ANALysis:OHMonitor:MSP?	Vol.2, 10-377
[2]	:DISPlay:ANALysis:OHMonitor:POINter?	Vol.2, 10-379

5.3.4 OH Monitor Sub Screen (4)



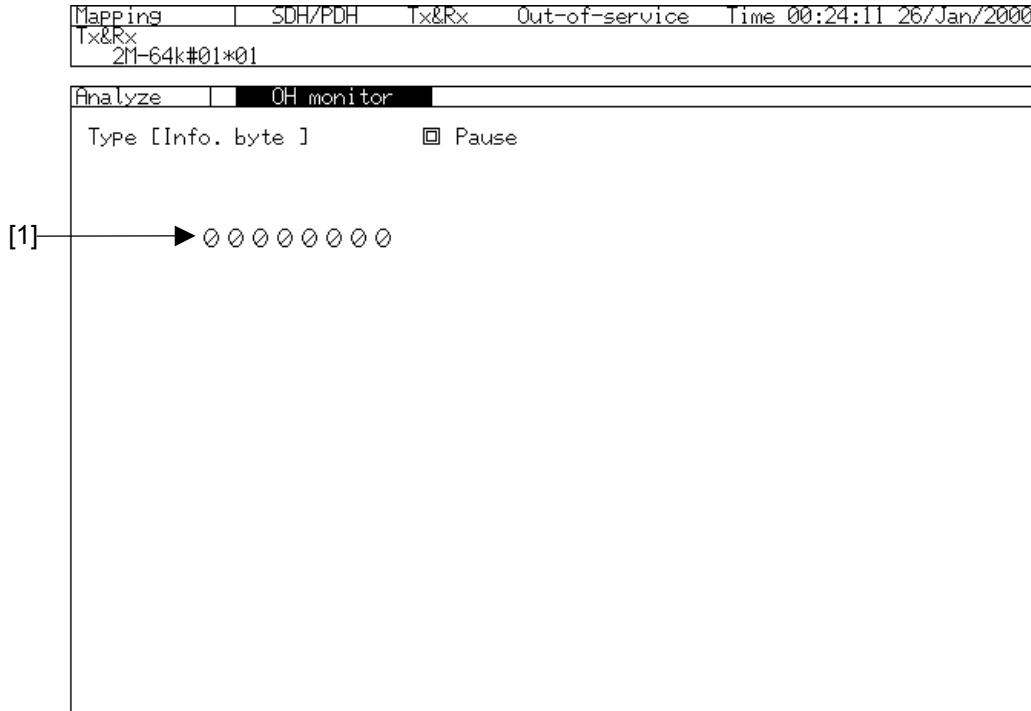
No.	Command	Page of manual
[1]	:DISPlay:ANALysis:OHMonitor:PTRace:J0?	Vol.2, 10-379
[2]	:DISPlay:ANALysis:OHMonitor:PTRace:J1H? :DISPlay:ANALysis:OHMonitor:PTRace:J1L?	Vol.2, 10-380
[3]	:DISPlay:ANALysis:OHMonitor:PTRace:J2?	Vol.2, 10-380

5.3.5 OH Monitor Sub Screen (5)



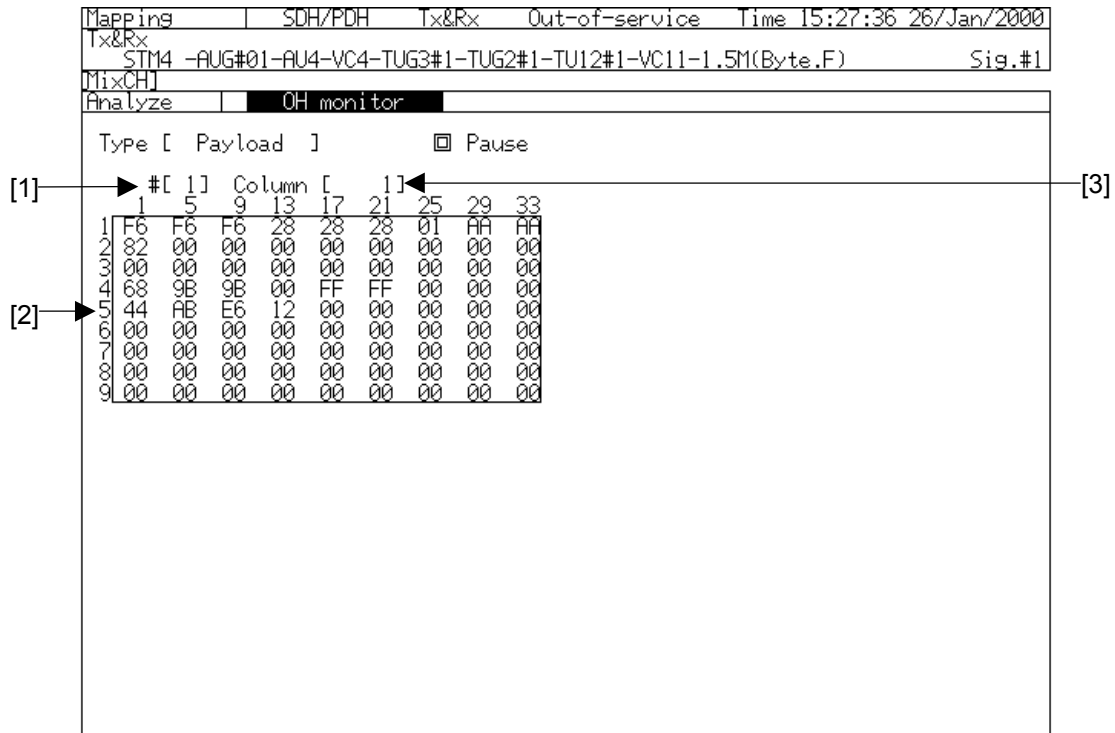
No.	Command	Page of manual
[1]	:DISPlay:ANALYsis:OHMonitor:PF rame :DISPlay:ANALYsis:OHMonitor:PF rame?	Vol.2, 10-381

5.3.6 OH Monitor Sub Screen (6)



No.	Command	Page of manual
[1]	:DISPlay:ANALysis:OHMonitor:IBData?	Vol.2, 10-383

5.3.7 OH Monitor Sub Screen (7)



No.	Command	Page of manual
[1]	:DISPlay:ANALysis:OHMonitor:PCH :DISPlay:ANALysis:OHMonitor:PCH?	Vol.2, 10-382
[2]	:DISPlay:ANALysis:OHMonitor:PAYLoad?	Vol.2, 10-382
[3]	:DISPlay:ANALysis:OHMonitor:PCOLumn :DISPlay:ANALysis:OHMonitor:PCOLumn?	Vol.2, 10-383

5.3.8 OH Monitor Sub Screen (8)

The screenshot shows the OH Monitor Sub Screen with the following configuration and data:

Mapping: SDH/PDH Tx&Rx Out-of-service Time 00:29:29 26/Jan/2000
 Tx&Rx: STM1 -AUG#01-AU4-VC4-TUG3#1-TUG2#1-TU12#1-VC11-1.5M(Byte.F) Sig.#1
 MixCH: []
 Analyze: OH monitor

[1] → Monitor Type [Tandem] [Pause]
 [N1-HP(Type1)] [HEX] ← [3]

LAPD message

Byte	Message
1	IFLAG 11110110
2	SAPICREAT 11110110
3	TEI EPI 11110110
4	CONTROL 00101000
	Type 00101000
Information	EIC 28 01 AA AA C6 00 00 00 00 00
	LIC 00 00 00 00 00 00 00 00 00 00
	FIC 00 68 9B 9B 00 FF FF 00 00 00
	UNITAB 38 85 12 00 00
	FIC 00 00 00 00 00 00 00 00 00 00
	00 00 00 00 00 00 00 00 00 00
	00 00 00 00 00 00 00 00 00 00
	00 00 00 00 00 00 00 00 00 00
81/82	FCS 000E

CRC-16 :

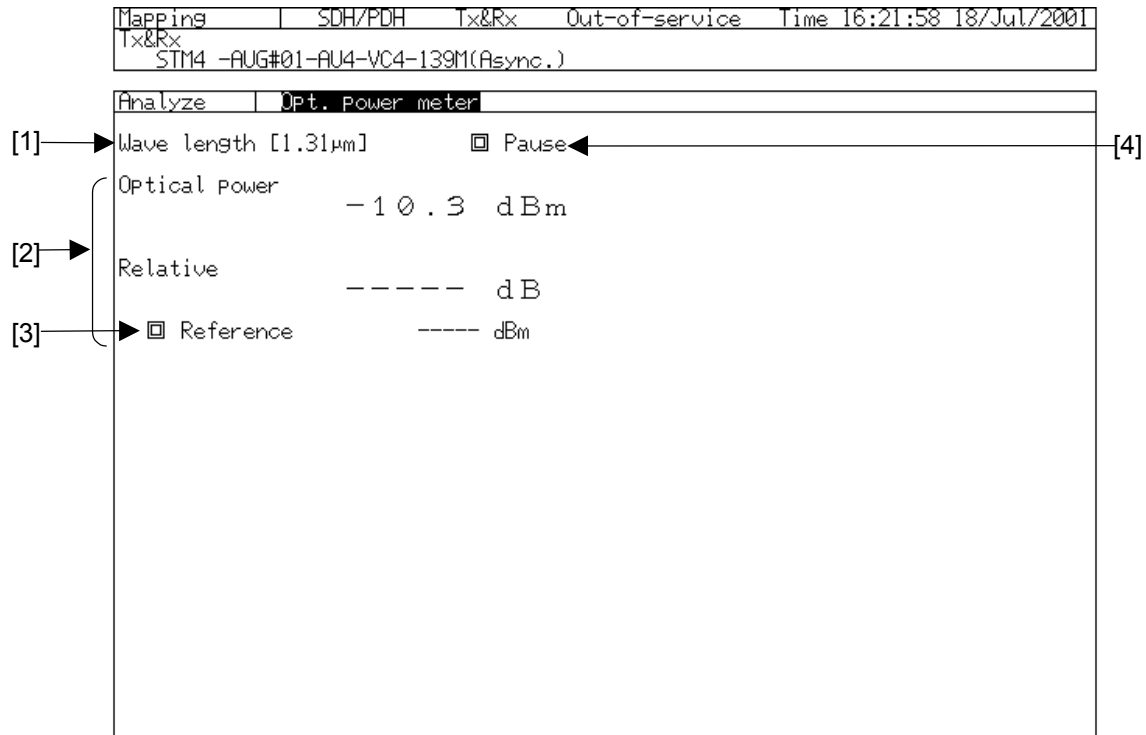
No.	Command	Page of manual
[1]	:DISPlay:ANALYsis:OHMonitor:Tcselect :DISPlay:ANALYsis:OHMonitor:Tcselect?	Vol.2, 10-386
[2]	:DISPlay:ANALYsis:OHMonitor:TANDem?	Vol.2, 10-385
[3]	:DISPlay:ANALYsis:OHMonitor:ASCII :DISPlay:ANALYsis:OHMonitor:ASCII?	Vol.2, 10-386

5.3.9 OH Monitor Sub Screen (9)

Mapping	SDH/PDH	Tx&Rx	Out-of-service	Time 00:30:54 26/Jan/2000
Tx&Rx	STM1 -AUG#01-AU4-VC4-TUG3#1-TUG2#1-TU12#1-VC11-1.5M(Byte.F)			Sig.#1
MixCH1				
Analyze	OH monitor			
Type [Signalling] <input type="checkbox"/> Pause				
	Fs		00000000	
	ATS	(ch 1- 6)	000010	
	I.5MBAIS		1	
	BAIS	(ch 1- 6)	000000	
	LOOP-OCU		0	
[1] →	PTY	(ch 1- 6)	000000	
	BERR	(ch 1- 6)	000000	
	LOOP2	(B1,B2,D)	000	
	LP	(ch 1- 6)	000	
	TRACE	(ch 1- 6)	000000	
	Reserved(S)	(ch 1- 6)	000000	
	Reserved(UNR)	(ch 1- 6)	000000	

No.	Command	Page of manual
[1]	:DISPlay:ANALysis:OHMonitor:SIGDATA?	Vol.2, 10-387

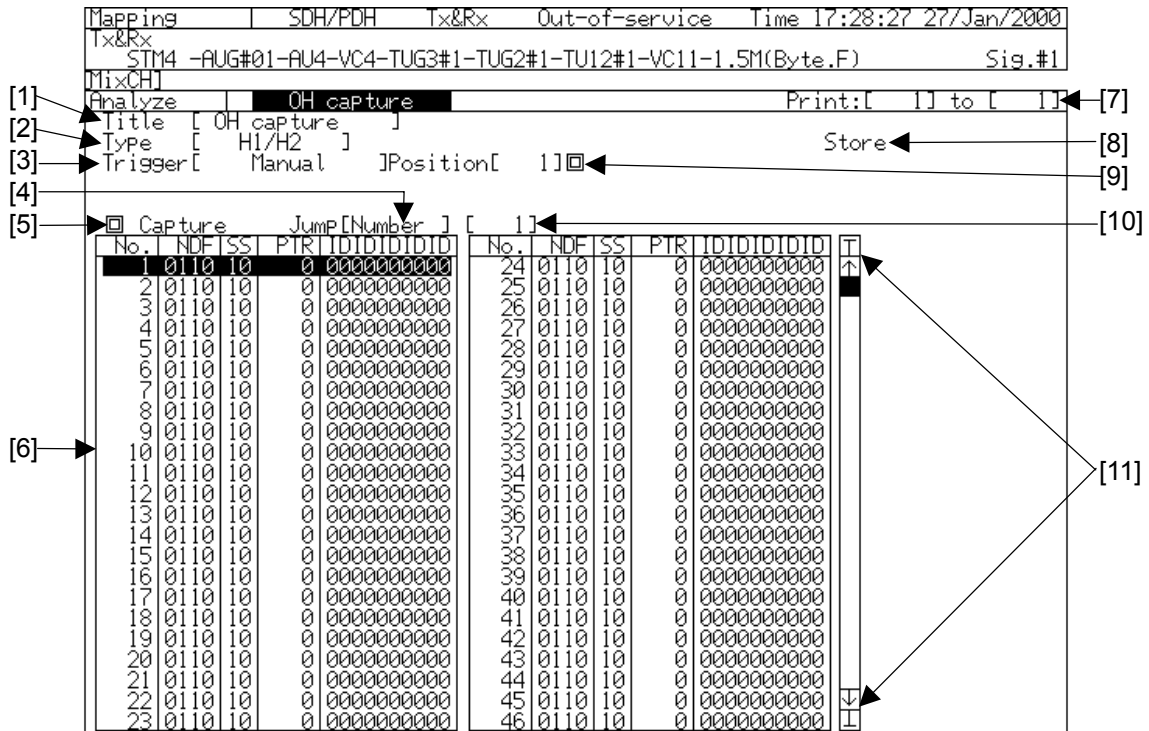
5.4 Opt. Power Meter Sub Screen



No.	Command	Page of manual
[1]	:DISPlay:ANALySis:OPMeter:WLENgth :DISPlay:ANALySis:OPMeter:WLENgth?	Vol.2, 10-388
[2]	:DISPlay:ANALySis:OPMeter:DATA?	Vol.2, 10-388
[3]	:DISPlay:ANALySis:OPMeter:REFerence:SET	Vol.2, 10-389
[4]	:DISPlay:ANALySis:OPMeter:PAUSe :DISPlay:ANALySis:OPMeter:PAUSe?	Vol.2, 10-389

5.5 OH Capture Sub Screen

5.5.1 OH Capture Sub Screen (1)



No.	Command	Page of manual
[1]	:DISPlay:ANALYsis:OHCapture:TITLe :DISPlay:ANALYsis:OHCapture:TITLe?	Vol.2, 10-389, 390
[2]	:SENSe:OHCapture:TYPE :SENSe:OHCapture:TYPE?	Vol.2, 10-298
[3]	:SENSe:OHCapture:TRIGger:TYPE :SENSe:OHCapture:TRIGger:TYPE?	Vol.2, 10-298, 301
[4]	:DISPlay:ANALYsis:OHCapture:JUMP:TYPE :DISPlay:ANALYsis:OHCapture:JUMP:TYPE?	Vol.2, 10-390
[5]	:SENSe:OHCapture:STARt :SENSe:OHCapture:STOP :SENSe:OHCapture:STATe?	Vol.2, 10-302
[6]	:CALCulate:OHCapture:DATA?	Vol.2, 10-494
[7]	:DISPlay:ANALYsis:OHCapture:PRINt :DISPlay:ANALYsis:OHCapture:PRINt?	Vol.2, 10-392
[8]	:SYSTem:MEMory:ANALYsis:STORE	Vol.2, 10-511
[9]	:SENSe:OHCapture:TRIGger:POSition :SENSe:OHCapture:TRIGger:POSition?	Vol.2, 10-301
[10]	:DISPlay:ANALYsis:OHCapture:JUMP:LINE :DISPlay:ANALYsis:OHCapture:JUMP:LINE?	Vol.2, 10-390, 391
[11]	:DISPlay:ANALYsis:OHCapture:SCRoll	Vol.2, 10-391

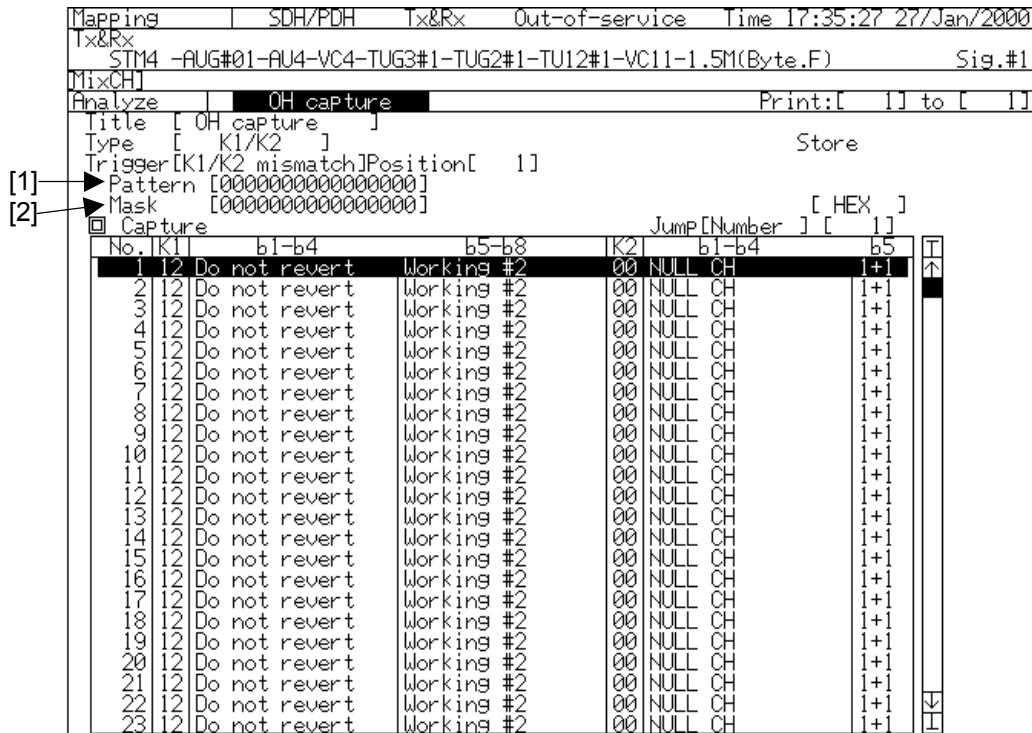
5.5.2 OH Capture Sub Screen (2)

[1]

Mapping	SDH/PDH	Tx&Rx	Out-of-service	Time 17:33:29 27/Jan/2000																																																																																																																																																																								
Tx&Rx	STM4 -AUG#01-AU4-VC4-TUG3#1-TUG2#1-TU12#1-VC11-1.5M(Byte.F)			Sig.#1																																																																																																																																																																								
MixCH																																																																																																																																																																												
Analyze	OH capture		Print:[] to []																																																																																																																																																																									
Title	[OH capture]																																																																																																																																																																											
Type	[K1/K2]			Store																																																																																																																																																																								
Trigger	[Manual]	Position	[]																																																																																																																																																																									
<table border="1"> <thead> <tr> <th>No.</th> <th>K1</th> <th>b1-b4</th> <th>b5-b8</th> <th>K2</th> <th>b1-b4</th> <th>b5</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>12</td> <td>Do not revert</td> <td>Working #2</td> <td>00</td> <td>NULL CH</td> <td>1+1</td> </tr> <tr> <td>2</td> <td>12</td> <td>Do not revert</td> <td>Working #2</td> <td>00</td> <td>NULL CH</td> <td>1+1</td> </tr> <tr> <td>3</td> <td>12</td> <td>Do not revert</td> <td>Working #2</td> <td>00</td> <td>NULL CH</td> <td>1+1</td> </tr> <tr> <td>4</td> <td>12</td> <td>Do not revert</td> <td>Working #2</td> <td>00</td> <td>NULL CH</td> <td>1+1</td> </tr> <tr> <td>5</td> <td>12</td> <td>Do not revert</td> <td>Working #2</td> <td>00</td> <td>NULL CH</td> <td>1+1</td> </tr> <tr> <td>6</td> <td>12</td> <td>Do not revert</td> <td>Working #2</td> <td>00</td> <td>NULL CH</td> <td>1+1</td> </tr> <tr> <td>7</td> <td>12</td> <td>Do not revert</td> <td>Working #2</td> <td>00</td> <td>NULL CH</td> <td>1+1</td> </tr> <tr> <td>8</td> <td>12</td> <td>Do not revert</td> <td>Working #2</td> <td>00</td> <td>NULL CH</td> <td>1+1</td> </tr> <tr> <td>9</td> <td>12</td> <td>Do not revert</td> <td>Working #2</td> <td>00</td> <td>NULL CH</td> <td>1+1</td> </tr> <tr> <td>10</td> <td>12</td> <td>Do not revert</td> <td>Working #2</td> <td>00</td> <td>NULL CH</td> <td>1+1</td> </tr> <tr> <td>11</td> <td>12</td> <td>Do not revert</td> <td>Working #2</td> <td>00</td> <td>NULL CH</td> <td>1+1</td> </tr> <tr> <td>12</td> <td>12</td> <td>Do not revert</td> <td>Working #2</td> <td>00</td> <td>NULL CH</td> <td>1+1</td> </tr> <tr> <td>13</td> <td>12</td> <td>Do not revert</td> <td>Working #2</td> <td>00</td> <td>NULL CH</td> <td>1+1</td> </tr> <tr> <td>14</td> <td>12</td> <td>Do not revert</td> <td>Working #2</td> <td>00</td> <td>NULL CH</td> <td>1+1</td> </tr> <tr> <td>15</td> <td>12</td> <td>Do not revert</td> <td>Working #2</td> <td>00</td> <td>NULL CH</td> <td>1+1</td> </tr> <tr> <td>16</td> <td>12</td> <td>Do not revert</td> <td>Working #2</td> <td>00</td> <td>NULL CH</td> <td>1+1</td> </tr> <tr> <td>17</td> <td>12</td> <td>Do not revert</td> <td>Working #2</td> <td>00</td> <td>NULL CH</td> <td>1+1</td> </tr> <tr> <td>18</td> <td>12</td> <td>Do not revert</td> <td>Working #2</td> <td>00</td> <td>NULL CH</td> <td>1+1</td> </tr> <tr> <td>19</td> <td>12</td> <td>Do not revert</td> <td>Working #2</td> <td>00</td> <td>NULL CH</td> <td>1+1</td> </tr> <tr> <td>20</td> <td>12</td> <td>Do not revert</td> <td>Working #2</td> <td>00</td> <td>NULL CH</td> <td>1+1</td> </tr> <tr> <td>21</td> <td>12</td> <td>Do not revert</td> <td>Working #2</td> <td>00</td> <td>NULL CH</td> <td>1+1</td> </tr> <tr> <td>22</td> <td>12</td> <td>Do not revert</td> <td>Working #2</td> <td>00</td> <td>NULL CH</td> <td>1+1</td> </tr> <tr> <td>23</td> <td>12</td> <td>Do not revert</td> <td>Working #2</td> <td>00</td> <td>NULL CH</td> <td>1+1</td> </tr> </tbody> </table>					No.	K1	b1-b4	b5-b8	K2	b1-b4	b5	1	12	Do not revert	Working #2	00	NULL CH	1+1	2	12	Do not revert	Working #2	00	NULL CH	1+1	3	12	Do not revert	Working #2	00	NULL CH	1+1	4	12	Do not revert	Working #2	00	NULL CH	1+1	5	12	Do not revert	Working #2	00	NULL CH	1+1	6	12	Do not revert	Working #2	00	NULL CH	1+1	7	12	Do not revert	Working #2	00	NULL CH	1+1	8	12	Do not revert	Working #2	00	NULL CH	1+1	9	12	Do not revert	Working #2	00	NULL CH	1+1	10	12	Do not revert	Working #2	00	NULL CH	1+1	11	12	Do not revert	Working #2	00	NULL CH	1+1	12	12	Do not revert	Working #2	00	NULL CH	1+1	13	12	Do not revert	Working #2	00	NULL CH	1+1	14	12	Do not revert	Working #2	00	NULL CH	1+1	15	12	Do not revert	Working #2	00	NULL CH	1+1	16	12	Do not revert	Working #2	00	NULL CH	1+1	17	12	Do not revert	Working #2	00	NULL CH	1+1	18	12	Do not revert	Working #2	00	NULL CH	1+1	19	12	Do not revert	Working #2	00	NULL CH	1+1	20	12	Do not revert	Working #2	00	NULL CH	1+1	21	12	Do not revert	Working #2	00	NULL CH	1+1	22	12	Do not revert	Working #2	00	NULL CH	1+1	23	12	Do not revert	Working #2	00	NULL CH	1+1
No.	K1	b1-b4	b5-b8	K2	b1-b4	b5																																																																																																																																																																						
1	12	Do not revert	Working #2	00	NULL CH	1+1																																																																																																																																																																						
2	12	Do not revert	Working #2	00	NULL CH	1+1																																																																																																																																																																						
3	12	Do not revert	Working #2	00	NULL CH	1+1																																																																																																																																																																						
4	12	Do not revert	Working #2	00	NULL CH	1+1																																																																																																																																																																						
5	12	Do not revert	Working #2	00	NULL CH	1+1																																																																																																																																																																						
6	12	Do not revert	Working #2	00	NULL CH	1+1																																																																																																																																																																						
7	12	Do not revert	Working #2	00	NULL CH	1+1																																																																																																																																																																						
8	12	Do not revert	Working #2	00	NULL CH	1+1																																																																																																																																																																						
9	12	Do not revert	Working #2	00	NULL CH	1+1																																																																																																																																																																						
10	12	Do not revert	Working #2	00	NULL CH	1+1																																																																																																																																																																						
11	12	Do not revert	Working #2	00	NULL CH	1+1																																																																																																																																																																						
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13	12	Do not revert	Working #2	00	NULL CH	1+1																																																																																																																																																																						
14	12	Do not revert	Working #2	00	NULL CH	1+1																																																																																																																																																																						
15	12	Do not revert	Working #2	00	NULL CH	1+1																																																																																																																																																																						
16	12	Do not revert	Working #2	00	NULL CH	1+1																																																																																																																																																																						
17	12	Do not revert	Working #2	00	NULL CH	1+1																																																																																																																																																																						
18	12	Do not revert	Working #2	00	NULL CH	1+1																																																																																																																																																																						
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22	12	Do not revert	Working #2	00	NULL CH	1+1																																																																																																																																																																						
23	12	Do not revert	Working #2	00	NULL CH	1+1																																																																																																																																																																						

No.	Command	Page of manual
[1]	:DISPlay:ANALysis:OHCapture:PTYPE :DISPlay:ANALysis:OHCapture:PTYPE?	Vol.2, 10-391

5.5.3 OH Capture Sub Screen (3)



No.	Command	Page of manual
[1]	:SENSe:OHCapture:TRIGger:PATtern :SENSe:OHCapture:TRIGger:PATtern?	Vol.2, 10-301, 302
[2]	:SENSe:OHCapture:TRIGger:MASK :SENSe:OHCapture:TRIGger:MASK?	Vol.2, 10-302

5.5.4 OH Capture Sub Screen (4)

The screenshot displays the OH Capture Sub Screen with the following configuration:

- Mapping: SDH/PDH Tx&Rx Out-of-service Time 17:37:01 27/Jan/2000
- Tx&Rx: STM4 -AUG#01-AU4-VC4-TUG3#1-TUG2#1-TU12#1-VC11-1.5M(Byte.F) Sig.#1
- MixCH: Analyze OH capture Print:[1] to [1]
- Title: OH capture
- Type: [SOH 1byte] [A11] #[1]
- Trigger: [K1/K2 mismatch] Position[1]
- Pattern: [0000000000000000]
- Mask: [0000000000000000]
- Capture: Jump [Number] [1]

The capture table below shows 22 rows of data, each containing 10 hexadecimal values (F6) and a column of vertical bars representing captured data.

No.	1	2	3	4	5	6	7	8	9	10	12345678910
11	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	
21	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	
31	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	
41	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	
51	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	
61	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	
71	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	
81	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	
91	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	
101	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	
111	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	
121	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	
131	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	
141	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	
151	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	
161	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	
171	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	
181	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	
191	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	
201	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	
211	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	
221	F6	F6	F6	F6	F6	F6	F6	F6	F6	F6	

No.	Command	Page of manual
[1]	:SENSe:OHCapture:POSition:SOH :SENSe:OHCapture:POSition:SOH?	Vol.2, 10-303
[2]	:SENSe:OHCapture:CHANel :SENSe:OHCapture:CHANel?	Vol.2, 10-304, 305

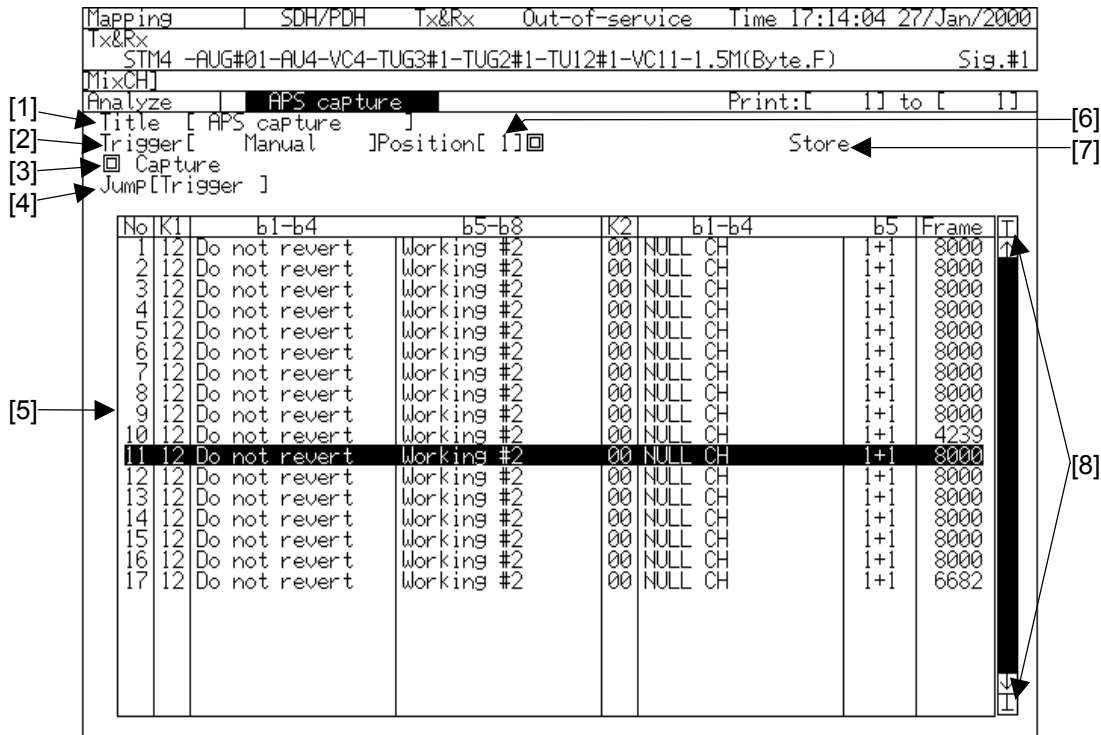
5.5.5 OH Capture Sub Screen (5)

Mapping	SDH/PDH	Tx&Rx	Out-of-service	Time 17:38:45 27/Jan/2000																	
Tx&Rx	STM4 -AUG#01-AU4-VC4-TUG3#1-TUG2#1-TU12#1-VC11-1.5M(Byte.F)			Sig.#1																	
MixCH																					
Analyze	OH capture			Print:[1] to [1]																	
Title	[OH capture]			[1]																	
Type	[POH 1byte][VC4][J1]			Store																	
Trigger	[K1/K2 mismatch]Position[1]																				
Pattern	[0000000000000000]																				
Mask	[0000000000000000]																				
<input checked="" type="checkbox"/> Capture	Jump[Number] [1]																				
No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
11	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
21	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
31	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
41	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
51	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
61	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
71	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
81	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
91	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
101	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
111	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
121	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
131	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
141	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
151	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
161	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
171	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
181	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
191	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
201	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
211	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
221	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00

No.	Command	Page of manual
[1]	:SENSE:OHCapture:POSITION:POH :SENSE:OHCapture:POSITION:POH?	Vol.2, 10-303, 304

5.6 APS Capture Sub Screen

5.6.1 APS Capture Sub Screen (1)



No.	Command	Page of manual
[1]	:DISPlay:ANALYsis:APSCapture:TITLe :DISPlay:ANALYsis:APSCapture:TITLe?	Vol.2, 10-392
[2]	:SENSe:APSCapture:TRIGger:TYPE :SENSe:APSCapture:TRIGger:TYPE?	Vol.2, 10-293, 294
[3]	:SENSe:APSCapture:STARt :SENSe:APSCapture:STOP :SENSe:APSCapture:STATe?	Vol.2, 10-292, 293
[4]	:DISPlay:ANALYsis:APSCapture:JUMP:TYPE :DISPlay:ANALYsis:APSCapture:JUMP:TYPE?	Vol.2, 10-392, 393
[5]	:CALCulate:APSCapture:DATA?	Vol.2, 10-493
[6]	:SENSe:APSCapture:TRIGger:POSition :SENSe:APSCapture:TRIGger:POSition?	Vol.2, 10-294
[7]	:SYSTem:MEMory:ANALYsis:STORE	Vol.2, 10-511
[8]	:DISPlay:ANALYsis:APSCapture:SCRoll	Vol.2, 10-391

5.6.2 APS Capture Sub Screen (2)

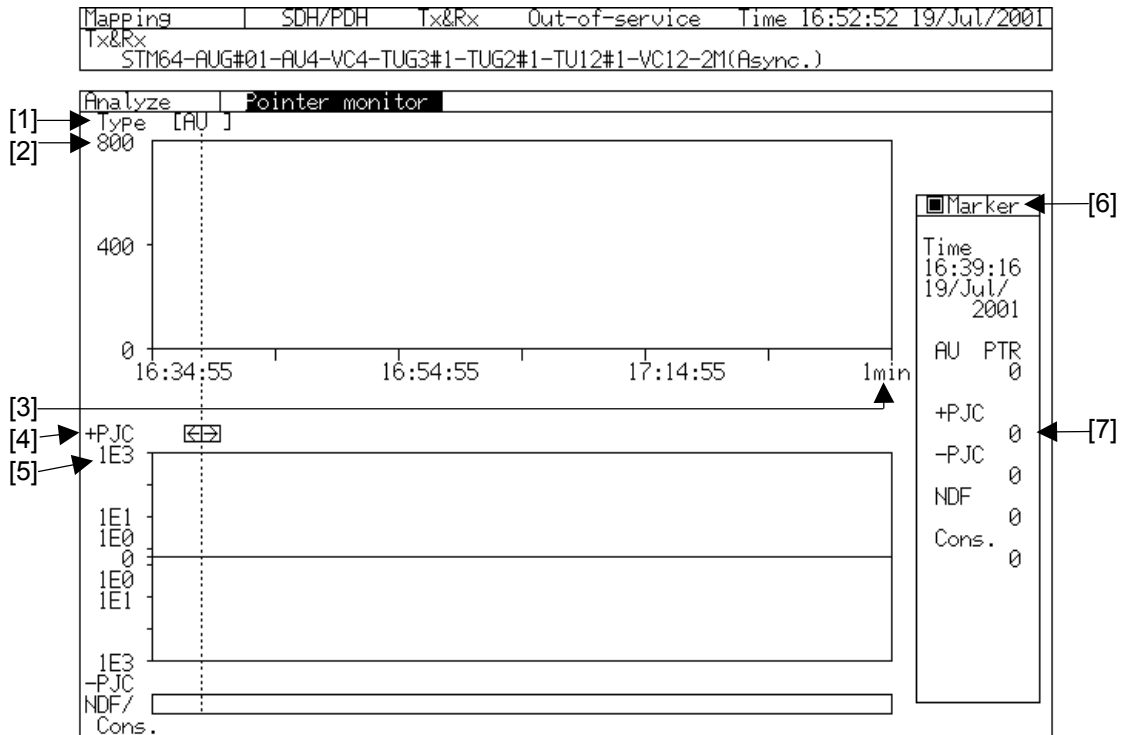
[1]

Mapping	SDH/PDH	Tx&Rx	Out-of-service	Time 17:23:19 27/Jan/2000				
Tx&Rx	STM4 -AUG#01-AU4-VC4-TUG3#1-TUG2#1-TU12#1-VC11-1.5M(Byte.F)			Sig.#1				
MixCH	Analyze APS capture Print:[] to []							
Title [APS capture]								
Trigger [K1/K2 mismatch]Position[1] Store								
<input type="checkbox"/> Capture								
Jump[Number][1] Pattern [0000000000000000]								
Mask [0000000000000000]								
No	K1	b1-b4	b5-b8	K2	b1-b4	b5	Frame	F
1	12	Do not revert	Working #2	00	NULL CH	1+1	8000	↑
2	12	Do not revert	Working #2	00	NULL CH	1+1	8000	
3	12	Do not revert	Working #2	00	NULL CH	1+1	8000	
4	12	Do not revert	Working #2	00	NULL CH	1+1	8000	
5	12	Do not revert	Working #2	00	NULL CH	1+1	8000	
6	12	Do not revert	Working #2	00	NULL CH	1+1	8000	
7	12	Do not revert	Working #2	00	NULL CH	1+1	8000	
8	12	Do not revert	Working #2	00	NULL CH	1+1	8000	
9	12	Do not revert	Working #2	00	NULL CH	1+1	8000	
10	12	Do not revert	Working #2	00	NULL CH	1+1	8000	
11	12	Do not revert	Working #2	00	NULL CH	1+1	8000	
12	12	Do not revert	Working #2	00	NULL CH	1+1	8000	
13	12	Do not revert	Working #2	00	NULL CH	1+1	8000	
14	12	Do not revert	Working #2	00	NULL CH	1+1	8000	
15	12	Do not revert	Working #2	00	NULL CH	1+1	8000	
16	12	Do not revert	Working #2	00	NULL CH	1+1	8000	
17	12	Do not revert	Working #2	00	NULL CH	1+1	8000	
18	12	Do not revert	Working #2	00	NULL CH	1+1	8000	
19	12	Do not revert	Working #2	00	NULL CH	1+1	8000	
20	12	Do not revert	Working #2	00	NULL CH	1+1	8000	
21	12	Do not revert	Working #2	00	NULL CH	1+1	8000	
22	12	Do not revert	Working #2	00	NULL CH	1+1	8000	
23	12	Do not revert	Working #2	00	NULL CH	1+1	8000	

No.	Command	Page of manual
[1]	:DISPlay:ANALysis:APSCapture:JUMP:LINE :DISPlay:ANALysis:APSCapture:JUMP:LINE?	Vol.2, 10-393

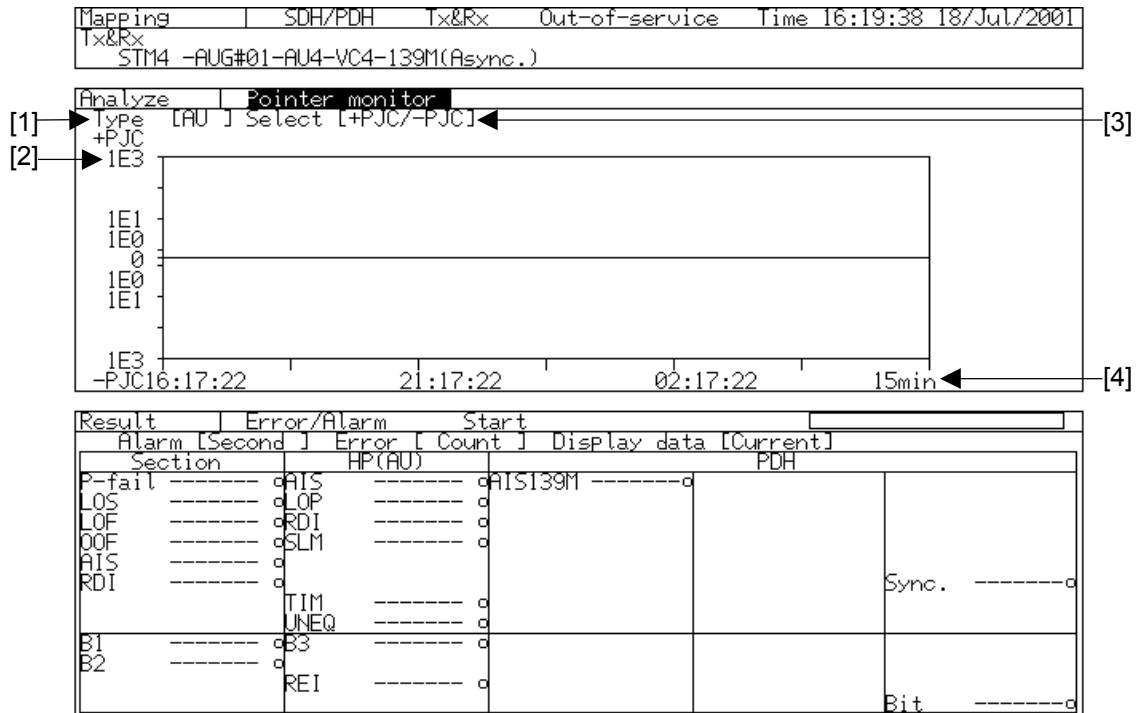
5.7 Pointer Monitor Sub Screen

5.7.1 Pointer Monitor Sub Screen (1)



No.	Command	Page of manual
[1]	:DISPlay:ANALYsis:PMONitor:TYPE :DISPlay:ANALYsis:PMONitor:TYPE?	Vol.2, 10-395, 396
[2]	:DISPlay:ANALYsis:PMONitor:PSCale :DISPlay:ANALYsis:PMONitor:PSCale?	Vol.2, 10-396
[3]	:DISPlay:ANALYsis:PMONitor:INTerval :DISPlay:ANALYsis:PMONitor:INTerval?	Vol.2, 10-395
[4]	:DISPlay:ANALYsis:PMONitor:MARKer	Vol.2, 10-394
[5]	:DISPlay:ANALYsis:PMONitor:JSCale :DISPlay:ANALYsis:PMONitor:JSCale?	Vol.2, 10-397
[6]	:DISPlay:ANALYsis:PMONitor:MDISplay :DISPlay:ANALYsis:PMONitor:MDISplay?	Vol.2, 10-395
[7]	:DISPlay:ANALYsis:PMONitor:DATA?	Vol.2, 10-394

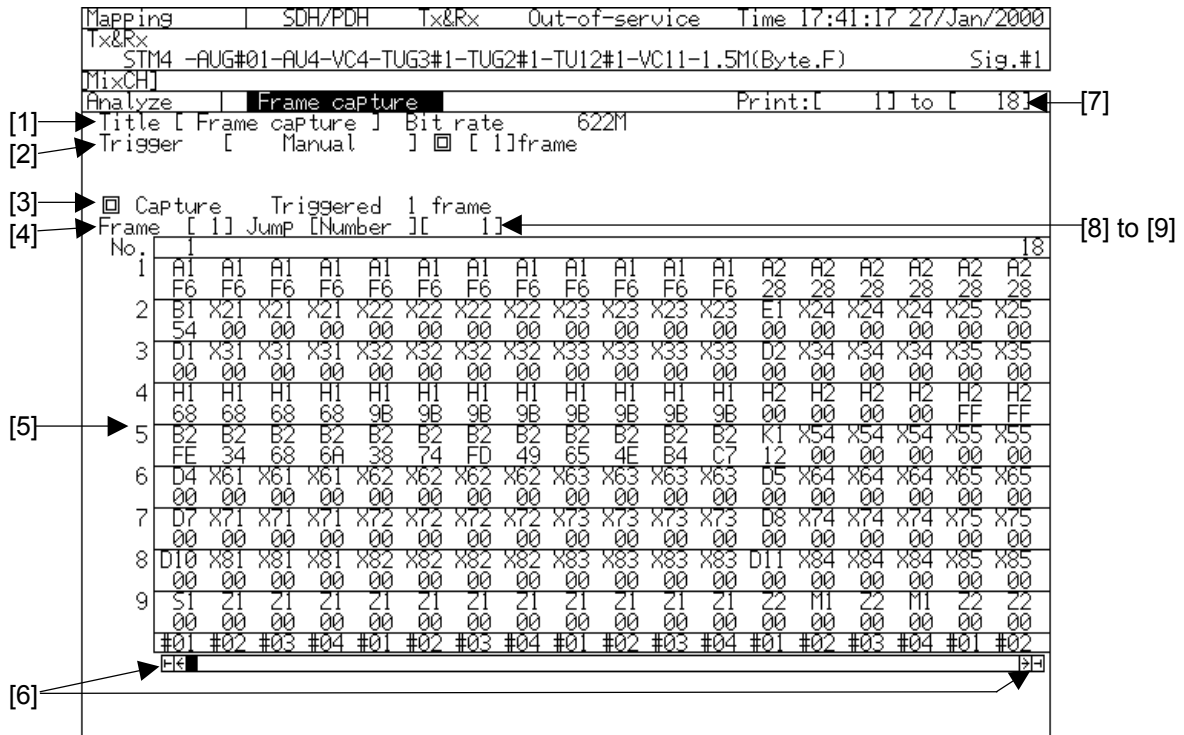
5.7.2 Pointer Monitor Sub Screen (2)



No.	Command	Page of manual
[1]	:DISPlay:ANALysis:PMONitor:TYPE :DISPlay:ANALysis:PMONitor:TYPE?	Vol.2, 10-395, 396
[2]	:DISPlay:ANALysis:PMONitor:JSCale :DISPlay:ANALysis:PMONitor:JSCale?	Vol.2, 10-397
[3]	:DISPlay:ANALysis:PMONitor:SElect :DISPlay:ANALysis:PMONitor:SElect?	Vol.2, 10-397
[4]	:DISPlay:ANALysis:PMONitor:INTerval :DISPlay:ANALysis:PMONitor:INTerval?	Vol.2, 10-395

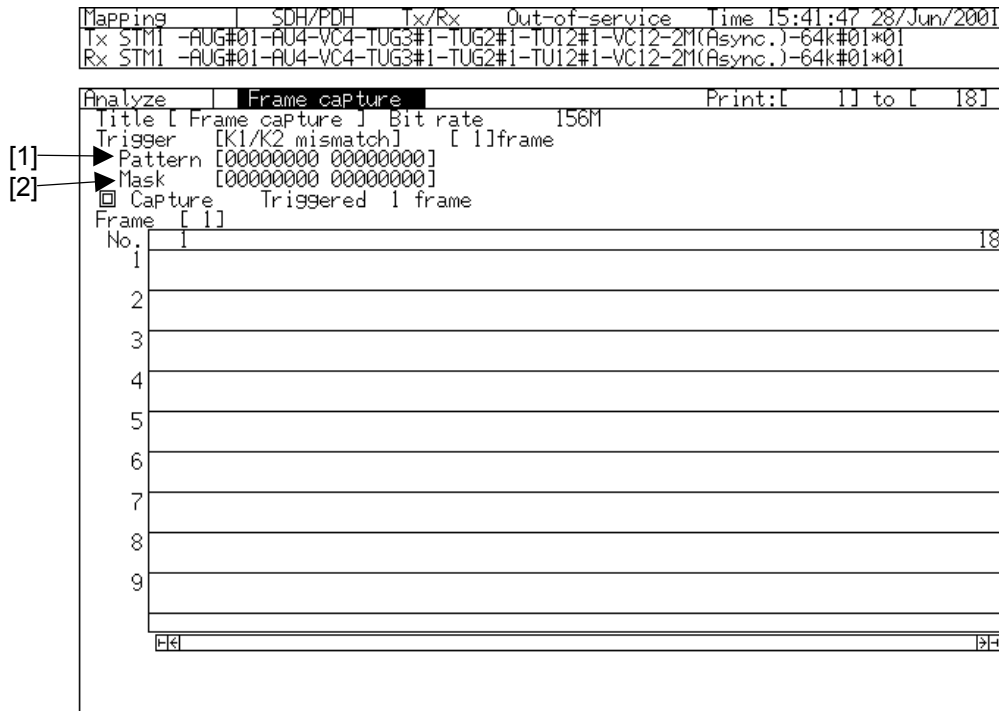
5.8 Frame Capture Sub Screen

5.8.1 Frame Capture Sub Screen (1)



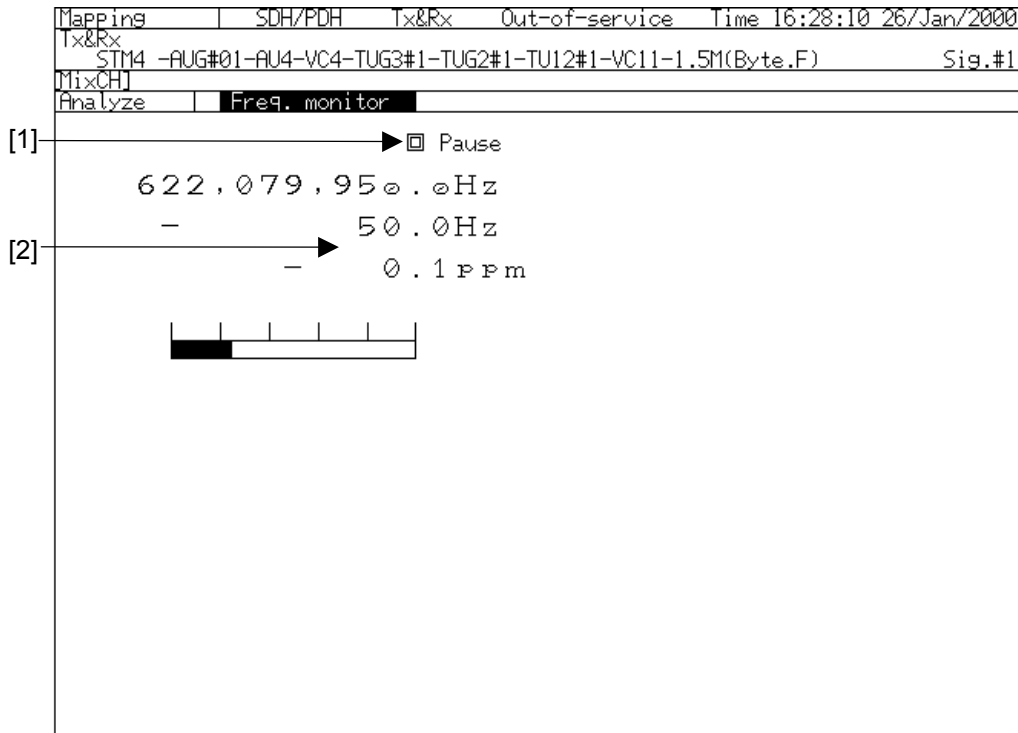
No.	Command	Page of manual
[1]	:DISPlay:ANALYsis:FRAMecapture:TITLe :DISPlay:ANALYsis:FRAMecapture:TITLe?	Vol.2, 10-399
[2]	:SENSe:FRAMecapture:TRIGger:TYPE :SENSe:FRAMecapture:TRIGger:TYPE?	Vol.2, 10-296, 297
[3]	:SENSe:FRAMecapture:STARt :SENSe:FRAMecapture:STOP :SENSe:FRAMecapture:STATe?	Vol.2, 10-295, 296
[4]	:DISPlay:ANALYsis:FRAMecapture:DFRame :DISPlay:ANALYsis:FRAMecapture:DFRame?	Vol.2, 10-399
[5]	:CALCulate:FRAMecapture:DATA?	Vol.2, 10-493
[6]	:DISPlay:ANALYsis:FRAMecapture:SCRoll	Vol.2, 10-401
[7]	:DISPlay:ANALYsis:FRAMecapture:PRINt :DISPlay:ANALYsis:FRAMecapture:PRINt?	Vol.2, 10-400, 401
[8]	:DISPlay:ANALYsis:FRAMecapture:JUMP:TYPE :DISPlay:ANALYsis:FRAMecapture:JUMP:TYPE?	Vol.2, 10-399, 400
[9]	:DISPlay:ANALYsis:FRAMecapture:JUMP:LINE :DISPlay:ANALYsis:FRAMecapture:JUMP:LINE?	Vol.2, 10-400

5.8.2 Frame Capture Sub Screen (2)



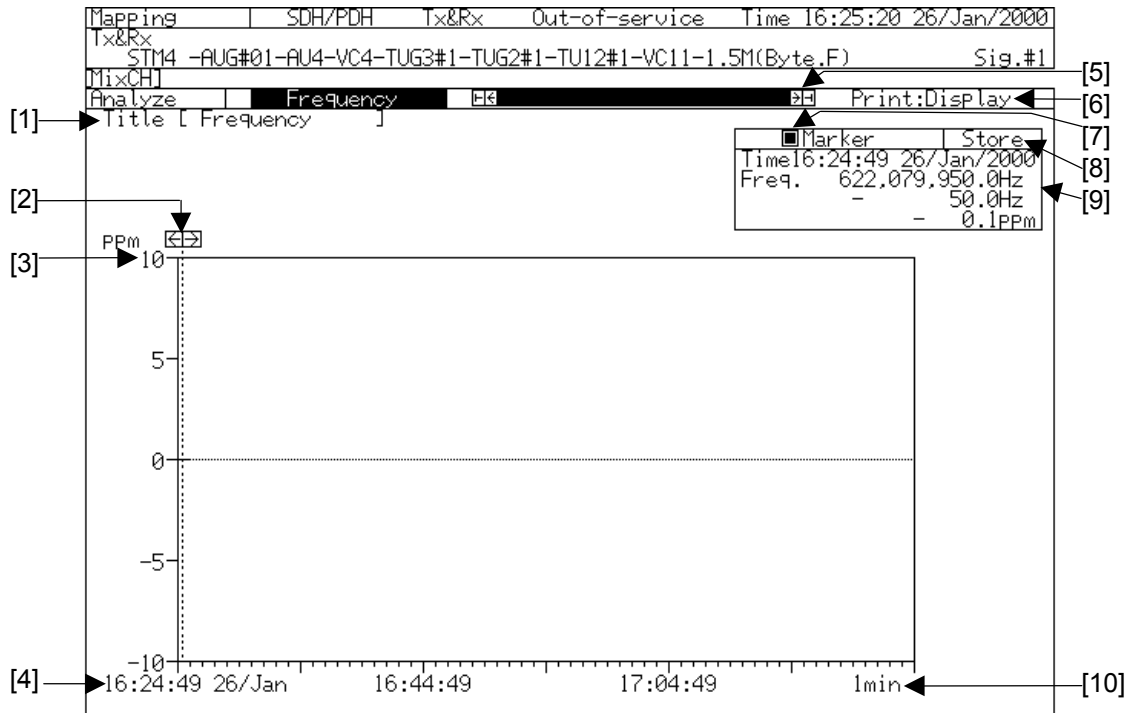
No.	Command	Page of manual
[1]	:SENSE:FRAMEcapture:TRIGger:PATTern :SENSE:FRAMEcapture:TRIGger:PATTern?	Vol.2, 10-297
[2]	:SENSE:FRAMEcapture:TRIGger:MASK :SENSE:FRAMEcapture:TRIGger:MASK?	Vol.2, 10-298

5.9 Freq. Monitor Sub Screen



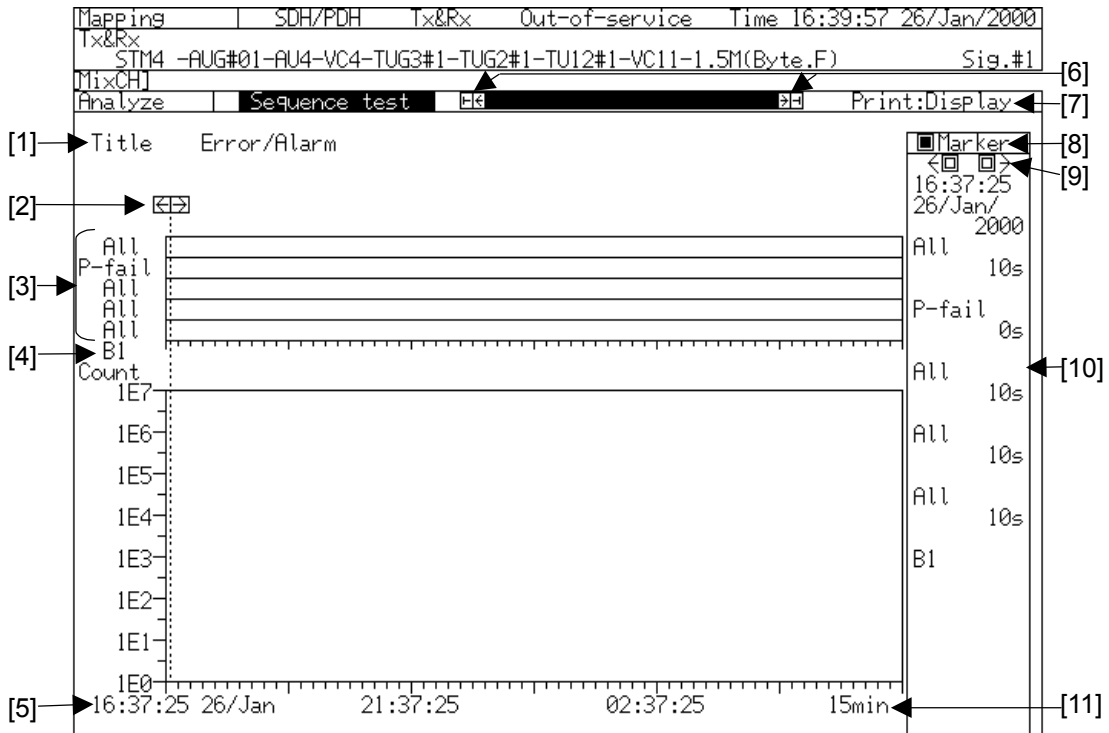
No.	Command	Page of manual
[1]	:DISPlay:ANALysis:FMONitor:PAUSE :DISPlay:ANALysis:FMONitor:PAUSE?	Vol.2, 10-401, 402
[2]	:DISPlay:ANALysis:FMONitor:FREQuency?	Vol.2, 10-401

5.10 Frequency Sub Screen



No.	Command	Page of manual
[1]	:DISPlay:ANALysis:FGRaph:TITLe :DISPlay:ANALysis:FGRaph:TITLe?	Vol.2, 10-402
[2]	:DISPlay:ANALysis:FGRaph:MARKer	Vol.2, 10-402
[3]	:DISPlay:ANALysis:FGRaph:SCALE :DISPlay:ANALysis:FGRaph:SCALE?	Vol.2, 10-405, 406
[4]	:DISPlay:ANALysis:FGRaph:FROM :DISPlay:ANALysis:FGRaph:FROM?	Vol.2, 10-404, 405
[5]	:DISPlay:ANALysis:FGRaph:SCROLL	Vol.2, 10-402
[6]	:DISPlay:ANALysis:FGRaph:PRINT :DISPlay:ANALysis:FGRaph:PRINT?	Vol.2, 10-405
[7]	:DISPlay:ANALysis:FGRaph:MDISplay :DISPlay:ANALysis:FGRaph:MDISplay?	Vol.2, 10-404
[8]	:SYSTem:MMEMory:STORe	Vol.2, 10-512
[9]	:DISPlay:ANALysis:FGRaph:DATA? :CALCulate:FGRaph:DATA?	Vol.2, 10-403 Vol.2, 10-491
[10]	:DISPlay:ANALysis:FGRaph:INTerval :DISPlay:ANALysis:FGRaph:INTerval?	Vol.2, 10-403, 404

5.11 Sequence Test Sub Screen



No.	Command	Page of manual
[1]	:DISPlay:ANALysis:SEQuencetest:TGRaph:TITLe?	Vol.2, 10-426
[2]	:DISPlay:ANALysis:SEQuencetest:TGRaph:MARKer	Vol.2, 10-421
[3]	:DISPlay:ANALysis:SEQuencetest:TGRaph:ALARm1 :DISPlay:ANALysis:SEQuencetest:TGRaph:ALARm1? :DISPlay:ANALysis:SEQuencetest:TGRaph:ALARm2 :DISPlay:ANALysis:SEQuencetest:TGRaph:ALARm2? :DISPlay:ANALysis:SEQuencetest:TGRaph:ALARm3 :DISPlay:ANALysis:SEQuencetest:TGRaph:ALARm3? :DISPlay:ANALysis:SEQuencetest:TGRaph:ALARm4 :DISPlay:ANALysis:SEQuencetest:TGRaph:ALARm4? :DISPlay:ANALysis:SEQuencetest:TGRaph:ALARm5 :DISPlay:ANALysis:SEQuencetest:TGRaph:ALARm5?	Vol.2, 10-424 Vol.2, 10-424, 425 Vol.2, 10-425 Vol.2, 10-425 Vol.2, 10-425
[4]	:DISPlay:ANALysis:SEQuencetest:TGRaph:ERRor :DISPlay:ANALysis:SEQuencetest:TGRaph:ERRor?	Vol.2, 10-424
[5]	:DISPlay:ANALysis:SEQuencetest:TGRaph:FROM :DISPlay:ANALysis:SEQuencetest:TGRaph:FROM?	Vol.2, 10-423
[6]	:DISPlay:ANALysis:SEQuencetest:TGRaph:SCRoll	Vol.2, 10-421
[7]	:DISPlay:ANALysis:SEQuencetest:TGRaph:PRINt :DISPlay:ANALysis:SEQuencetest:TGRaph:PRINt?	Vol.2, 10-426
[8]	:DISPlay:ANALysis:SEQuencetest:TGRaph:MDISplay :DISPlay:ANALysis:SEQuencetest:TGRaph:MDISplay?	Vol.2, 10-422

Section 5 Analyze Main Screen

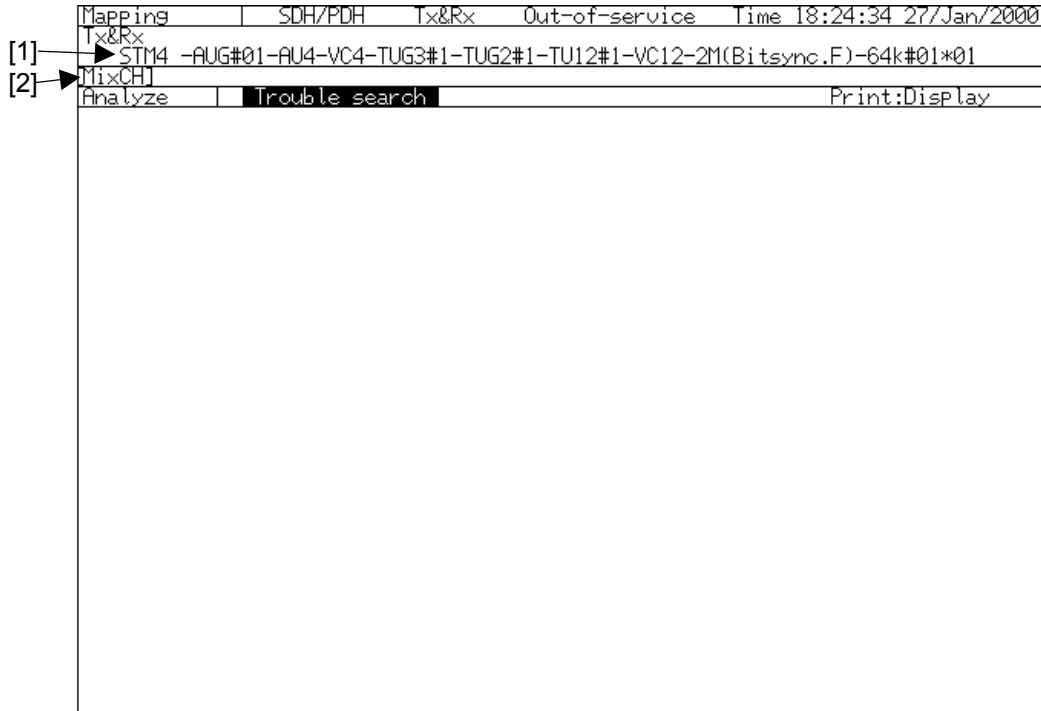
No.	Command	Page of manual
[9]	:DISPlay:ANALysis:SEQuencetest:TGRaph:SEARCh	Vol.2, 10-423
[10]	:DISPlay:ANALysis:SEQuencetest:TGRaph:DATA?	Vol.2, 10-421
[11]	:DISPlay:ANALysis:SEQuencetest:TGRaph:INTerval :DISPlay:ANALysis:SEQuencetest:TGRaph:INTerval?	Vol.2, 10-422

Section 6 Appendix

6.1	Mapping.....	6-2
6.1.1	Mapping (1).....	6-2
6.1.2	Mapping (2).....	6-3
6.1.3	Mapping (3).....	6-4
6.1.4	Mapping (4).....	6-5

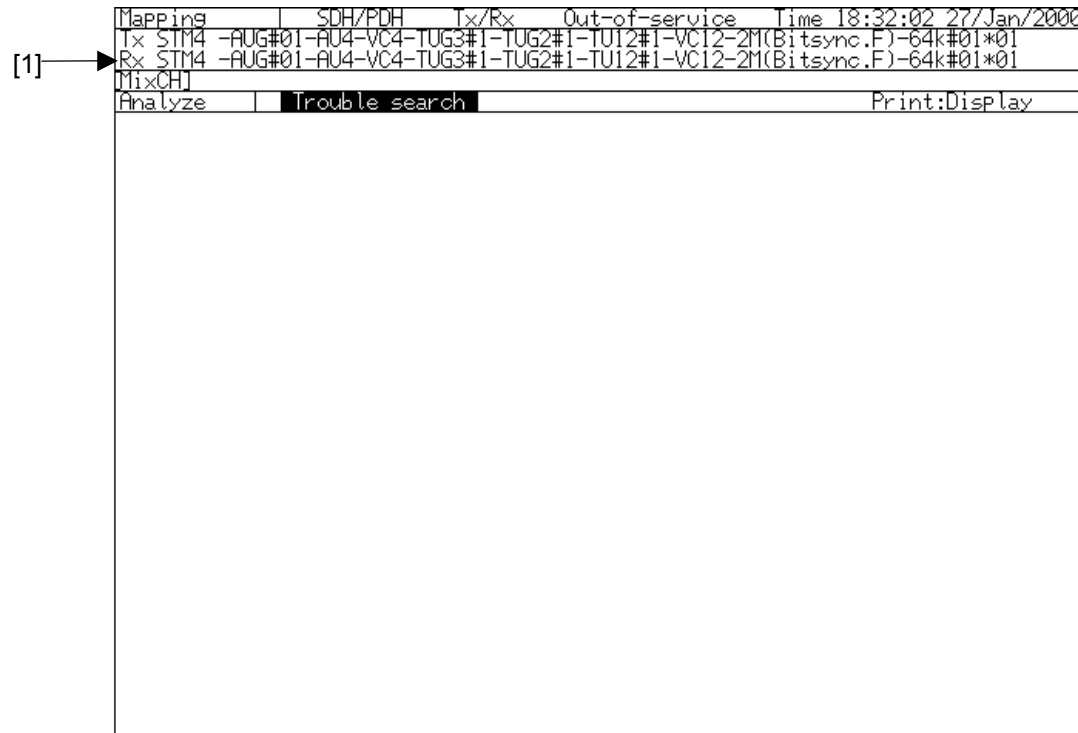
6.1 Mapping

6.1.1 Mapping (1)



No.	Command	Page of manual
[1]	:SOURCE:TELEcom:MAPPING:ROUTE	Vol.2, 10-42, 44
	:SOURCE:TELEcom:MAPPING:ROUTE?	
	:SOURCE:TELEcom:MUX:ROUTE	Vol.2, 10-57, 59
	:SOURCE:TELEcom:MUX:ROUTE?	
	:SOURCE:TELEcom:MUX:N	Vol.2, 10-59
:SOURCE:TELEcom:MUX:N?		
[2]	:DISPLAY:MAPPING:MIXCh	Vol.2, 10-328

6.1.2 Mapping (2)



No.	Command	Page of manual
[1]	:SENSE:TELEcom:MAPPING:ROUTE	Vol.2, 10-244, 245
	:SENSE:TELEcom:MAPPING:ROUTE?	
	:SENSE:TELEcom:DEMUX:ROUTE	Vol.2, 10-248, 249
	:SENSE:TELEcom:DEMUX:ROUTE?	
	:SENSE:TELEcom:DEMUX:N	Vol.2, 10-250
:SENSE:TELEcom:DEMUX:N?		

6.1.3 Mapping (3)

The screenshot displays a terminal interface with the following sections:

- Mapping:** Shows configuration for Tx STM4 and Rx STM4 signals, including SDH/PDH, Tx/Rx, and Out-of-service status. A reference marker [1] points to the Rx STM4 line.
- Test menu:** Shows settings for Manual, SDH, Test Patt (PRBS15), Alarm (OFF), and Error (OFF). It also lists K1, K2, and PTR parameters with their respective values and options.
- Analyze:** Shows a graph for Error/Alarm analysis. The graph area contains the text "NO DATA".
- Result:** A table showing the results of the analysis, including Section, Error/Alarm, and Start information.

Section	Error/Alarm	Start
P-fail	HP(AU)	LP(TU)
LOS	LOP	LOP
LOF	RDI	RDI
DOF	SLM	SLM
AIS	RFI	RFI
RDI	LOM	LOM
	TIM	TIM
	UNEQ	UNEQ
B1	B3	B3
B2	REI	BIP2
	REI	REI
		Bit

No.	Command	Page of manual
[1]	:SOURCE:TELEcom:MAPPING:SIG	Vol.2, 10-44, 45
	:SOURCE:TELEcom:MAPPING:SIG?	
	:SENSE:TELEcom:MAPPING:SIG	Vol.2, 10-246, 247
	:SENSE:TELEcom:MAPPING:SIG?	

6.1.4 Mapping (4)

Mapping	SDH/PDH	Tx/Rx	Out-of-service	Time
Tx STM1	-AUG#01-AU4-VC4-TUG3#1-TUG2#1-TU2-VC2-mc*4			15:12:22 28/Jun/2001
Rx STM1	-AUG#01-AU4-VC4-TUG3#1-TUG2#1-TU2-VC2-mc*1			

[1]

Test menu	Freq. sweep
Tx Mod. freq.	[2.0JHz]
Freq. offset	[±100ppm]
Step	[4ppm]
Rx Detection	[1s error]
Error	[B1]
Unit	[Count]
Threshold	[1]
Waiting time	[0.0]s]
Mask	[G.958 Type A]
Press <Start> key.	

Result	Freq. sweep	Start									
No	PPm	UIP-P	No	PPm	UIP-P	No	PPm	UIP-P	No	PPm	UIP-P
1	-100	----	11	-60	----	21	-20	----	31	+20	----
2	-96	----	12	-56	----	22	-16	----	32	+24	----
3	-92	----	13	-52	----	23	-12	----	33	+28	----
4	-88	----	14	-48	----	24	-8	----	34	+32	----
5	-84	----	15	-44	----	25	-4	----	35	+36	----
6	-80	----	16	-40	----	26	0	----	36	+40	----
7	-76	----	17	-36	----	27	+4	----	37	+44	----
8	-72	----	18	-32	----	28	+8	----	38	+48	----
9	-68	----	19	-28	----	29	+12	----	39	+52	----
10	-64	----	20	-24	----	30	+16	----	40	+56	----

No.	Command	Page of manual
[1]	:SOURCE:TELEcom:MAPPING:MC :SOURCE:TELEcom:MAPPING:MC? :SENSE:TELEcom:MAPPING:MC :SENSE:TELEcom:MAPPING:MC?	Vol.2, 10-44 Vol.2, 10-245, 246

