RM-95
CAMERA TEST FEATURES

INSTRUCTION MANUAL

The following table allows you to select a specific camera model and its applicable RM-95 test feature. The table shows the most commonly used features used by the RM-95 for testing and troubleshooting . Instructions for performing Camera Alignments on Single Page Cameras is also included.

Column 1. Select camera model

Column 2. Write Protect
Go to the designated table to implement the Write Protect function.
(*) See RM-95 Single Page Camera Instructions.

Column 3. Forced Power
Go to the designated table to implement the Forced Power mode.

Column 4. Emergency Codes
Go to the designated table to read the Emergency Conditions.

Column 5. Forced Motor Tests
Go to the designated table to implement the Forced Motor Tests.

Column 6. Test Mode Setting
Go to the designated table to select the proper Test Mode.

Column 7. Mechanism Type
This table designates the mechanism type used by the selected model.

CAMERA MODEL LIST

MODEL NO. CCD-	WRITE PROTECT (PG. 9)	FORCED POWER (PG. 10)	EMERGENCY CODES (PG. 11-19)	FORCED MOTOR TESTS (PG. 20-24)	TEST MODE SETTINGS (PG. 25-30)	MECH TYPE
F33	*	N/A	#2	N/A	N/A	U/U'
F35						
F45						
F55	B	N/A	#3	#4	#5	
F77						
F201						
F301						
F401						
F501						
FX228		A	#4	#1		A
FX230						
FX240		B	#5	#2	#3	
FX310		A	#4	#1		
FX330						
FX340		B	#5	#2	#3	
FX410		A	#4	#1		
FX420						
FX430		B	#5	#2		
FX510		A	#4	#1		
FX520						
FX530		B	#5	#2		
FX620		A	#4	#1		
FX630		B	#5	#2	#2	
FX640					#3	
FX710		A	#4	#1		
FX730		B	#5	#2		
SC5		A	#6	#2	#1	TK

MODEL NO. CCD-	WRITE PROTECT (PG. 9)	FORCED POWER (PG. 10)	EMERGENCY CODES (PG. 11-19)	FORCED MOTOR TESTS (PG. 20-24)	TEST MODE SETTINGS (PG. 25-30)	MECH TYPE
TR4	*	N/A	#1	N/A	N/A	FL (Q)
TR5						
TR6						U/U'
TR7						FL (Q)
TR9	*	N/A	#2	N/A	N/A	U/U'
TR21	B	A	#4	#1		A
TR23		B	#5	#2	#3	
TR28		A	#4	#1		
TR30						
TR31						
TR33		B	#5	#2	#3	
TR36						
TR40		A	#4	#1		
TR44	C	C	#6	#5	N/A	B
TR51	A	N/A	#4	#3	#6	FL (Q)
TR54	C	C	#6	#5	N/A	B
TR61	B	A	#4	#1		A
TR64	C	C	#6	#5	N/A	B
TR65	B	A	#4	#1		A
TR70		B	#5	#2		
TR71		A	#4	#1		
TR72		B	#5	#2	#2	
TR73					#3	
TR74	C	C	#6	#5	N/A	B
TR76	B	B	#5	#2	#3	A
TR77		A	#4	#1		
TR80		B	#5	#2		
TR81	A	N/A	#4	N/A	N/A	FL (Q)
TR82	B	B	#5	#2	#2	A
TR83					#3	
TR84	C	C	#6	#5	N/A	B
TR91	B	A	#4	#2	#2	A
TR93		B	#5		#3	

MODEL NO. CCD-	WRITE PROTECT (PG. 9)	FORCED POWER (PG. 10)	EMERGENCY CODES (PG. 11-19)	FORCED MOTOR TESTS (PG. 20-24)	TEST MODE SETTINGS (PG. 25-30)	MECH TYPE
TR94	C	C	#6	#5	N/A	B
TR100	B	B	#5	#2	#3	A
TR101		A	#4		#1	FL (Q)
TR200						A
TR300						
TR400		B	#5		#2	
TR500		A	#4		#1	
TR600		B	#5		#3	
TR700		A	#4		#1	
TR3000	B	B	#6	#2	#4	TK
TRV30			#5		#3	A
TRV40						
TRV70						
V99	*	N/A	#1	N/A	N/A	U/U'
V101	B		#3	#4	#5	
V701						
V801						
V5000	*		#1	N/A	N/A	
VX3	B	A	#4	#2	#1	A

* **SEE RM-95** (Single Page Camera Instructions)

ALL OTHERS SEE RM-95

RM-95
(Single Page Camera)

1. Use of adjustment remote controller

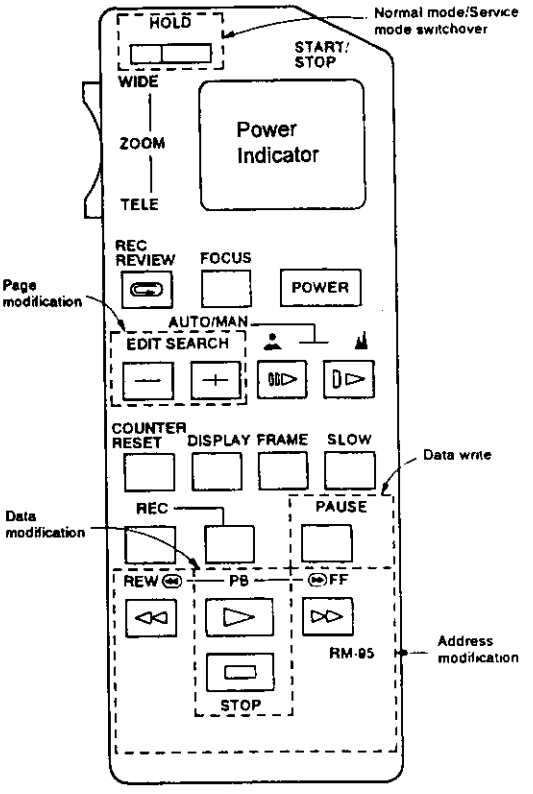
1) Connect the adjustment remote controller to the remote terminal. (Set the HOLD switch of the adjustment remote controller to the HOLD [SERVICE] position).

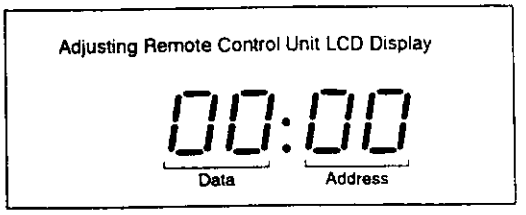
2) Turn on the power of the main unit.

3) Connect Pin B6 (CAMERA ADJ) of the check point array to GND using a jumper wire (see FIG.1). (This connection causes the EVR/AWB microcomputer to cease normal remote control operation and to begin adjustment dedicated communications).

Note: Be sure to make this connection only after turning on the power. The following will be displayed on the LCD of the adjustment remote controller if connection is normal. (Adjustment data varies according to the unit).

Adjusting remote control unit RM-95 (J-6082-053-A)

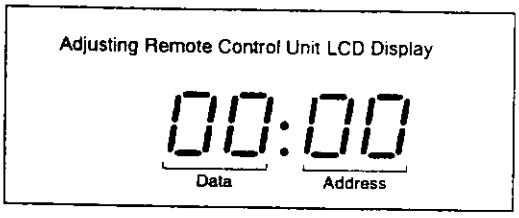




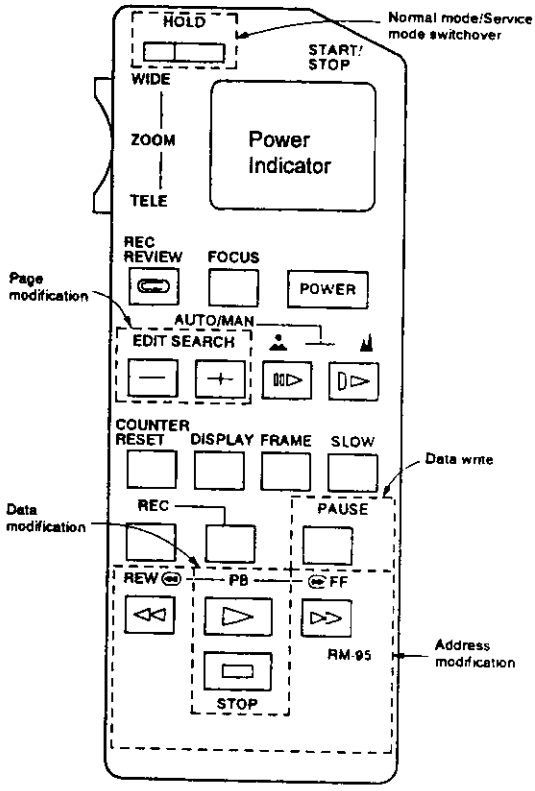
4) Designate the desired adjustment address using the adjustment remote controller. The adjustment address is incremented by pressing the FF (>>) button and decrements by pressing the REW (<<) button. (The adjustment address is indicated in decimal).

5) Perform adjustment by incrementing or decrementing the adjustment data.
The adjustment data is incremented by pressing the PLAY (►) button. The adjustment data is decremented by pressing the STOP (■) button.
The adjustment data is indicated in hexadecimal). (There are 256 values from 00 to FF).

6) The adjustment address is changed using the FF (>>) button or REW (<<) button to store the adjustment data in the nonvolatile memory of the EVR/AWB microcomputer. (The new adjustment data is not stored in the nonvolatile memory unless this operation is performed).



Adjusting remote control unit RM-95 (J-6082-053-A)



2. Precautions on use of adjustment remote controller

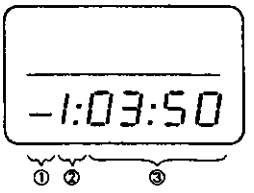
It is possible to accidentally erase correct adjustment data due to an error in operation of the adjustment remote controller. In order to prevent this, we recommend that you make a note of all adjustment data before adjustment and record the new adjustment data after completing each adjustment item.

3. Use of adjustment remote controller

1) Turn on the power of the main unit

2) Connect the adjustment remote controller to the remote terminal. (Set the HOLD switch of the adjustment remote controller to the HOLD [SERVICE] position).

3) The following will be displayed on the LCD of the adjustment remote controller.

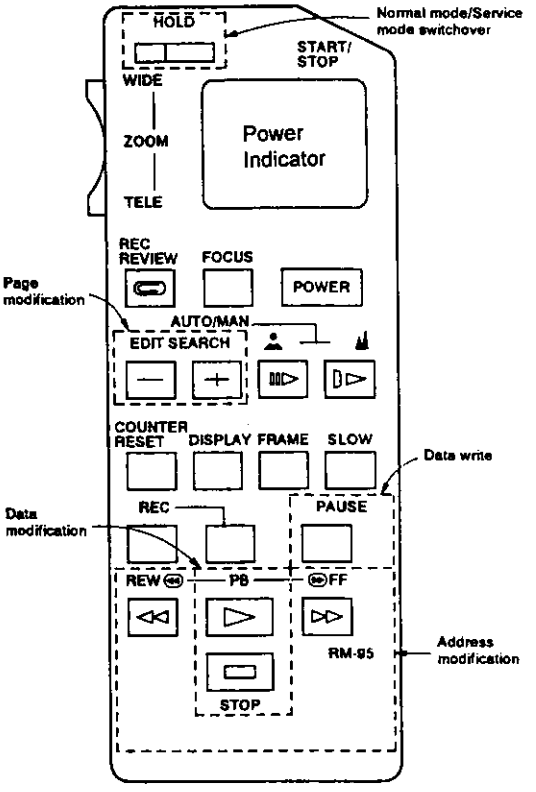


1 - Minus segment flashes to indicate that the service mode has been invoked.

2 - Indicates service mode category.

3 - Indicates battery voltage, LAST EMG, PRESENT EMG, or MODE SW CODE according to current category.

Adjusting remote control unit RM-95 (J-6082-053-A)



4. Category selection

1) Select the desired category with the FF or REW buttons on the adjustment remote controller.

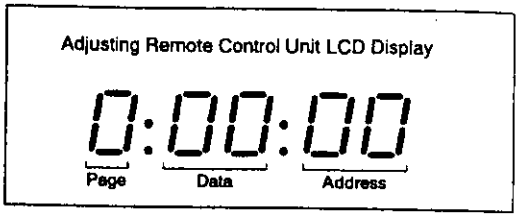
RM-95

1. Setting the service mode

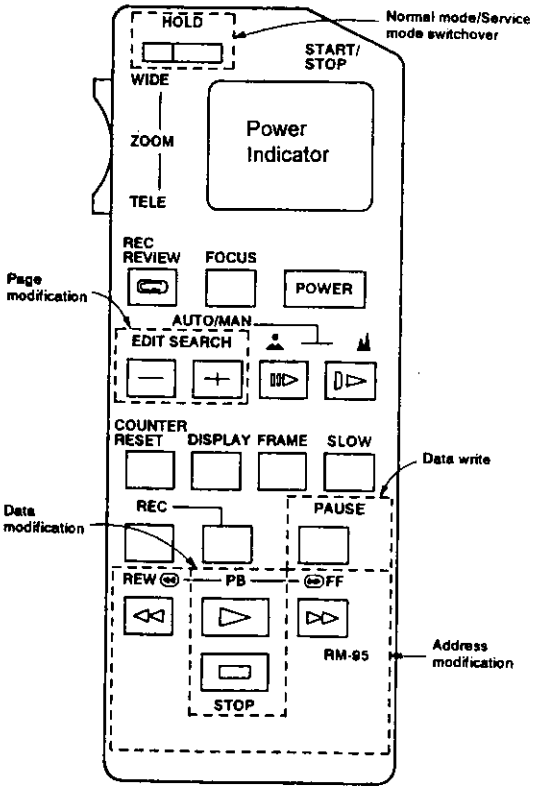
The service mode consists of the adjustment mode which adjusts the EVR and the test mode which shows the condition of the unit.
The unit can be set into the test mode and adjustment mode by connecting the adjusting remote commander (Set the HOLD switch to "HOLD").

PAGE	PAGE LAYOUT
0	
1	D page write protect setting/release
2	Mode controller RAM, I/O
3	Mechanism controller RAM, I/O
4	
5	
6	Shared by camera section
7	Camera controller RAM, I/O
8	
9	
A	2 bytes data display
B	
C	
D	VTR EEPROM*
E	
F	Camera EEPROM*

* The data of this page is written in the EEPROM.



Adjusting remote control unit RM-95 (J-6082-053-A)



WRITE PROTECT

WRITE PROTECT A	RELEASE PAGE	RELEASE ADDRESS	RELEASE DATA	DEFAULT DATA
PAGE D	0	00	01	00
PAGE F	5	00	01	10

WRITE PROTECT B	RELEASE PAGE	RELEASE ADDRESS	RELEASE DATA	DEFAULT DATA
PAGE D	1	00	01	00
PAGE F	6	00	01	10

WRITE PROTECT C	RELEASE PAGE	RELEASE ADDRESS	RELEASE DATA	DEFAULT DATA
PAGE F	6	00	01	00

FORCED POWER MODES

FORCED POWER MODES	FORCED VTR/CAM PAGE	FORCED VTR/CAM ADDRESS	FORCED VTR DATA	FORCED CAM DATA	FORCED VTR/CAM DATA	DEFAULT DATA
A	D	21	02	01	03	00
B	D	03	02	01	03	00
C	F	02	02	01	03	00

EMERGENCY CODES #1

EMERGENCY CODES #1	CATEGORY	DEFAULT DATA**	EMERGENCY DATA CODE/MODE
LAST EMERGENCY	2	00:00	SEE CHART LIST*
PRESENT EMERGENCY	3	00:00	"

* EMERGENCY CODE LIST #1

ERROR	PRESENT EMG Display	LAST EMG Display
No error	00:00	00:00
Loading motor	00:01	00:01
REEL FG error at unthreading time	00:02	00:02
REEL FG error at non-unthreading time	00:03	00:03
Capstan error	00:04	00:04
DRUM FG error at drum start time (0)	00:05	00:05
DRUM FG error at drum start time (1)	01:05	00:14/01:05*
DRUM FG error at drum start time (2)	02:05	00:15/02:05*
No DRUM PG at drum start time (0)	00:06	00:06
No DRUM PG at drum start time (1)	01:06	00:14/01:06*
No DRUM PG at drum start time (2)	02:06	00:15/02:06*
DRUM FG error at drum stationary time (0)	00:07	00:07
DRUM PG error at drum stationary time (1)	01:07	00:14/01:07*
DRUM PG error at drum stationary time (2)	02:07	00:15/02:07*
No DRUM PG at drum stationary time (0)	00:08	00:08
No DRUM PG at drum stationary time (1)	01:08	00:14/01:08*
No DRUM PG at drum stationary time (2)	02:08	00:15/02:08*
Phase error at drum stationary time (0)	00:09	00:09

(1) : At tape threading time
(2) : At tape unthreading time
(0) : Others

*** V99 Only**
**** Main Power and Back-up (Lithium) battery must be removed.**

EMERGENCY CODES #2

EMERGENCY CODES #2	CATEGORY	DEFAULT DATA**	EMERGENCY DATA CODE/MODE
LAST EMERGENCY	2	00:00	SEE CHART LIST*
PRESENT EMERGENCY	3	00:00	"

* EMERGENCY CODE LIST #2

ERROR STATUS	Present EMG Indication	Last EMG Indication
No error	00:00	00:00
Loading motor	00:01	00:01
REEL FG error during unthreading	00:02	00:02
REEL FG error not during unthreading	00:03	00:03
Capstan error	00:04	00:04
DRUM FG error (0) when starting drum	00:05	00:05
DRUM FG error (1) when starting drum	01:05	00:14 or 00:0E
DRUM FG error (2) when starting drum	02:06	00:15 or 00:0F
No DRUM PG (0) when starting drum	00:06	00:06
No DRUM PG (1) when starting drum	01:06	00:14 or 00:0E
No DRUM PG (2) when starting drum	02:06	00:15 or 00:0F
DRUM FG error (0) when drum stationary	00:07	00:07
DRUM FG error (1) when drum stationary	01:07	00:14 or 00:0E
DRUM FG error (2) when drum stationary	02:07	00:15 or 00:0F
No DRUM PG (0) when drum stationary	00:08	00:08
No DRUM PG (1) when drum stationary	01:08	00:14 or 00:0E
No DRUM PG (2) when drum stationary	02:08	00:15 or 00:0F
Phase error (0) when drum stationary	00:09	00:09

(1) During tape threading
(2) During tape unthreading
(0) Others

**** Main Power and Back-up (Lithium) battery must be removed.**

EMERGENCY CODES #3

EMERGENCY CODES #3	PAGE	EMERGENCY CODE ADDRESS	EMERGENCY MODE ADDRESS	EMERGENCY DATA CODE/MODE	DEFAULT DATA
FIRST EMERGENCY	D	20,21	22	SEE CHART LISTS*	00
LAST EMERGENCY	D	24,25	26	"	00

* EMERGENCY CODE LIST #3

Code		Emergency contents
20H, 24H	21H, 25H	
00	00	Normal mode
01	00	Loading Motor emergency
02	00	Unloading, Reel emergency
04	00	Steady, Reel emergency
08	00	Capstan emergency
00	01	Drum steady, FG emergency
00	02	Drum steady, PG emergency
00	21	Drum steady, FG emergency
00	22	Drum steady, PG emergency
00	41	Loading,, Drum FG emergency
00	42	Loading,. Drum PG emergency
00	81	Unloading, Drum FG emergency
00	82	Unloading, Drum PG emergency
----	----	Drum steady Phase emergency

* EMERGENCY MODE LIST #3

Mode	Code	Mode	Code
STOP	20	EDIT S CUE	5A
FF	30	EDIT S REV	5B
REW	38	EDIT S STILL	5F
PB	60	+ X 1	62
CUE	64	- X 1	63
REV	65	- STILL	79
STILL	70	+ FRAME	76
REC	40	- FRAME	77
REC. P	41	+ X 2	66
SHUTTLE EDIT (+)	5A	- X 2	62
SHUTTLE EDIT (-)	5B	LOADING	21
CAM STBY	41	UNLOADING	13
CAM REC	40	EJECTED	10
REC REV +	58	+ SLOW	72
REC REV -	59	- SLOW	73

EMERGENCY CODES #4

EMERGENCY CODES #4	PAGE	EMERGENCY CODE ADDRESS	EMERGENCY MODE ADDRESS	EMERGENCY DATA CODE/MODE	DEFAULT DATA
FIRST EMERGENCY	0*/D	06	08	SEE CHART LISTS*	00
LAST EMERGENCY	0*/D	07	09	"	00

* EMERGENCY CODE LIST #4

Code	Error condition
00	No error
01	Loading motor error
02	Reel error during unloading
03	Other reel errors
04	Capstan error
05	FG error during drum start up
06	PG error during drum start up
07	FG error during drum regular condition
08	PG error during drum regular condition
09	Phase error during drum regular condition

*** CCD-TR51**

* EMERGENCY MODE LIST #4

Mode	Error condition	Mode	Error Condition
00	BEFORE INITIALIZE	62	STOP TAPE END
01	EJECTED	66	X2
02	NORMAL STOP	67	FRAME
03	FF	72	STOP TAPE TOP
04	NORMAL REC	76	- X2
06	NORMAL PB	77	- FRAME
07	PB PAUSE	83	REWIND
12	LOADING	85	REC REVIEW (+)
14	REC PAUSE	95	REC REVIEW (-)
26	X1	97	- PB PAUSE
27	1/5 SLOW	A2	EMERGENCY STOP
31	UNLOADING	A5	EDIT SEARCH (+)
36	- X1	B1	EMERGENCY UNLOADING
37	- 1/5 SLOW	B2	STOP EMERGENCY 1
46	CUE	B5	EDIT SEARCH (-)
47	1/10 SLOW	C2	STOP EMERGENCY 2
56	REVIEW	E2	STOP NO CASSETTE
57	- 1/10 SLOW	F5	EDIT PAUSE

EMERGENCY CODES #5

EMERGENCY CODES #5	PAGE	EMERGENCY CODE ADDRESS	EMERGENCY MODE ADDRESS	EMERGENCY DATA CODE/MODE	DEFAULT DATA
FIRST EMERGENCY	D	EC	ED	SEE CHART LISTS*	00
2ND EMERGENCY	D	E8	E9	"	00
LAST EMERGENCY	D	E4	E5	"	00

* EMERGENCY CODE LIST #5

Code	Error condition
00	No error
01	Loading motor error
02	Reel error during unloading
03	Other reel errors
04	Capstan error
05	FG error during drum start up
06	PG error during drum start up
07	FG error during drum regular condition
08	PG error during drum regular condition
09	Phase error during drum regular condition

* EMERGENCY MODE LIST #5

Mode	Error condition	Mode	Error Condition
00	BEFORE INITIALIZE	62	STOP TAPE END
01	EJECTED	66	X2
02	NORMAL STOP	67	FRAME
03	FF	72	STOP TAPE TOP
04	NORMAL REC	76	- X2
06	NORMAL PB	77	- FRAME
07	PB PAUSE	83	REWIND
12	LOADING	85	REC REVIEW (+)
14	REC PAUSE	95	REC REVIEW (-)
26	X1	97	- PB PAUSE
27	1/5 SLOW	A2	EMERGENCY STOP
31	UNLOADING	A5	EDIT SEARCH (+)
36	- X1	B1	EMERGENCY UNLOADING
37	- 1/5 SLOW	B2	STOP EMERGENCY 1
46	CUE	B5	EDIT SEARCH (-)
47	1/10 SLOW	C2	STOP EMERGENCY 2
56	REVIEW	E2	STOP NO CASSETTE
57	- 1/10 SLOW	F5	EDIT PAUSE

EMERGENCY CODES #6

EMERGENCY CODES #6	PAGE	EMERGENCY CODE ADDRESS	EMERGENCY CODE DATA	DEFAULT DATA
FIRST EMERGENCY	D	EC	SEE CHART LISTS*	00
2ND EMERGENCY	D	E8	"	00
LAST EMERGENCY	D	E4	"	00

* EMERGENCY CODE LIST #6

Code	Type of Emergency
00	No error
10	Loading motor time-out during load
11	Loading motor time-out during unload
20	T reel emergency (reel slack) during unloading
21	S reel emergency (reel slack) during unlaoding
22	T reel emergency
23	S reel emergency
30	FG emergency at the start up of the capstan
31	FG emergency during the normal rotation of the capstan
40	FG emergency at the start up of the drum
41	PG emergency at the start up of the drum
42	FG emergency during the normal rotation of the drum
43	PG emergency during the normal rotation of the drum
44	Phase emergency during the normal rotation of the drum

FORCED MOTOR TESTS #1

FORCED MOTOR TESTS #1	PAGE	ADDRESS	FORCED MOTOR DATA	DEFAULT DATA
MOTOR ENABLE	4	0E	01	00
MOTOR TESTS	4	11	SEE CHART BELOW*	00

* FORCED MOTOR DATA #1

Data	Operation
00	Normal
02	Drum forward rotation
04	Drum reverse rotation
06	Capstan forward rotation
08	Capstan reverse rotation
0A	Loading motor forward rotation
0C	Loading motor reverse rotation
03	All motors stop
05	
07	
09	
0B	
0D	
0F	

FORCED MOTOR TESTS #2

FORCED MOTOR TESTS #2	PAGE	ADDRESS	FORCED MOTOR DATA	DEFAULT DATA
CATEGORY FOR MOTOR TESTS	3	00	02	00
MOTOR ENABLE	3	0E	01	00
MOTOR TESTS	3	11	SEE CHART BELOW*	00

* FORCED MOTOR DATA #2

Data	Operation
00	Normal
02	Drum forward rotation
04	Drum reverse rotation
06	Capstan forward rotation
08	Capstan reverse rotation
0A	Loading motor forward rotation
0C	Loading motor reverse rotation
03	All motors stop
05	
07	
09	
0B	
0D	
0F	

FORCED MOTOR TESTS #3

FORCED MOTOR TESTS #3	PAGE	ADDRESS	FORCED MOTOR DATA	DEFAULT DATA
CATEGORY FOR MOTOR TESTS	2	02	08	00
MOTOR ENABLE	2	01	01	00
MOTOR TESTS	2	05	SEE CHART BELOW*	00

* FORCED MOTOR DATA #3

Data	Operation
00	Normal
04	Drum forward rotation
06	Drum reverse rotation
08	Capstan forward rotation
0A	Capstan reverse rotation
0C	Loading motor forward rotation
0E	Loading motor reverse rotation
03	All motors stop
05	
07	
09	
0B	
0D	
0F	

FORCED MOTOR TEST #4

FORCED MOTOR TESTS #4	PAGE	ADDRESS	FORCED MOTOR DATA	DEFAULT DATA
LOADING MOTOR	3	DD	10*	00
DRUM MOTOR	3	DD	11*	00
CAPSTAN MOTOR	3	DD	12*	00

* After the set of the above data, operation is performed by pressing the following keys. (When the operation is performed with the RM-95, set the HOLD switch to the NORM position to release the service mode).

RM-95 KEYS	MOTOR DIRECTION
FF	FWD
REW	RVS
STOP	STOP

Note: In this mode, operation is only performed in the normally loaded condition. In order to release this mode, turn off the power.

FORCED MOTOR TESTS #5

FORCED MOTOR TESTS #5	PAGE	ADDRESS	FORCED MOTOR DATA	DEFAULT DATA
CATEGORY FOR MOTOR TESTS	7	00	02	00
MOTOR ENABLE	7	0E	01	00
MOTOR TESTS	7	11	SEE CHART BELOW*	00

* FORCED MOTOR DATA #5

Data	Operation
00	Normal
02	Drum forward rotation
06	Capstan forward rotation
08	Capstan reverse rotation
0A	Loading motor forward rotation
0C	Loading motor reverse rotation
01	All motors stop
03	
05	
07	
09	
0B	
0D	
0F	

TEST MODE SETTING #1

PAGE	ADDRESS	DATA	FUNCTION
D	01	00	Normal
		01	Test mode 1 Various emergency inhibition and release Drum, capstan, loading motor, reel, tape top, end, DEW SP/LP automatic distinction inhibition, manual switchover (EDIT SW ON: LP, OFF: SP) 5 minutes pause release inhibition Power off inhibition • release by battery end
		02	Test mode 2 1' CH frequency response adjustment SP/LP automatic distinction inhibition, manual switchover (EDIT SW ON: LP, OFF: SP)
		03	Test mode 3 Track shift Plays back the track shift Rear lock distinction inhibition during PB SP/LP automatic distinction inhibition, manual switchover (EDIT SW ON: LP, OFF: SP)
		04	Test mode 4 Rear lock mode Rear lock playback is performed SP/LP automatic distinction inhibition, manual switchover (EDIT SW ON: LP, OFF: SP)
		05	Test mode 5 SP/LP automatic distinction inhibition, manual switchover (EDIT SW ON: LP, OFF: SP)

TEST MODE SETTING #2

PAGE	ADDRESS	DATA	FUNCTION
D	02	00	Normal
		01	Test mode 1 Various emergency prohibition and releases Drum, capstan, loading motor, reel, tape top and end, DEW, SP/LP automatic discrimination prohibition, manual switching, 5 minutes pause release prohibition Power off prohibition/release by battery end
		02	Test mode 2 Not used
		03	Test mode 3 Track shift Performs the track shift playback Rear lock distinction inhibition during PB SP/LP automatic discrimination prohibition, manual switching
		04	Test mode 4 Rear lock mode Performs rear lock playback SP/LP automatic discrimination prohibition, manual switching

TEST MODE SETTING #3

PAGE	ADDRESS	DATA	FUNCTION
D	02	00	Normal
		01	Test mode 1 Various emergency prohibition and releases Drum, capstan, loading motor, reel, tape top and end, DEW, SP/LP automatic discrimination prohibition, manual switching, 5 minutes pause release prohibition Power off inhibition/release by battery end

TEST MODE SETTING #4

PAGE	ADDRESS	DATA	FUNCTION
D	02	00	Normal
		01	Test mode 1 Various emergency prohibition and releases Drum, capstan, loading motor, reel, tape top and end, DEW, SP/LP automatic discrimination prohibition, manual switching, 5 minutes pause release prohibition Power off prohibition/release by battery end
		02	Test mode 2
		03	Test mode 3 Track shift
		04	Test mode 4 Rear lock processing mode

TEST MODE SETTING #5

PAGE	ADDRESS	DATA	FUNCTION
1	4D	00	Normal
		10	Various emergency prohibition and releases Drum, capstan, loading motor, reel, DEW, SP/LP automatic discrimination prohibition, manual switching, 5 minutes pause release prohibition, except TAPE TOP/END. Power off prohibition/release by battery end
		30	Track shift

TEST MODE SETTING #6

PAGE	ADDRESS	DATA	FUNCTION
0/D	01	00	Normal
		01	Test mode 1 Various emergency inhibition and release Drum, capstan, loading motor, reel, tape top, end, DEW SP/LP automatic distinction inhibition, manual switchover (EDIT SW ON: LP, OFF: SP) 5 minutes pause release inhibition Power off inhibition • release by battery end
		02	Test mode 2 1' CH frequency response adjustment SP/LP automatic distinction inhibition, manual switchover (EDIT SW ON: LP, OFF: SP)
		03	Test mode 3 Track shift Plays back the track shift Rear lock distinction inhibition during PB SP/LP automatic distinction inhibition, manual switchover (EDIT SW ON: LP, OFF: SP)
		04	Test mode 4 Rear lock mode Rear lock playback is performed SP/LP automatic distinction inhibition, manual switchover (EDIT SW ON: LP, OFF: SP)

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