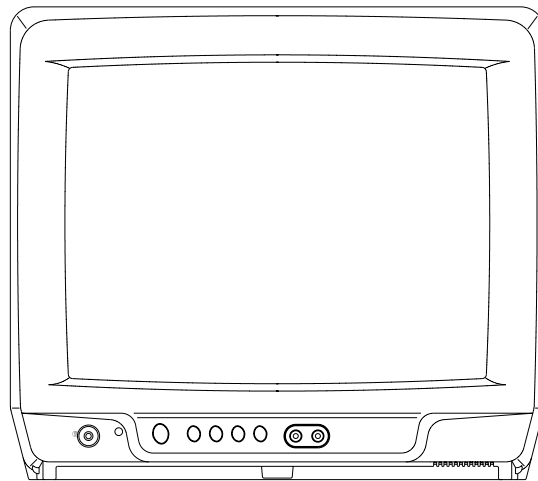


DURABRAND

DBTV1301-04

SERVICE MANUAL

COLOR TELEVISION RECEIVER



**SUPPLEMENT
MFR'S VERSION I**

This SUPPLEMENT must be used together SERVICE MANUAL for DBTV1301.
All other test and repair procedures are as shown in the ORIGINAL MANUAL.
Please file this SUPPLEMENT with the ORIGINAL VERSIONS.

DURABRAND

DBTV1301-04

SERVICE MANUAL

COLOR TELEVISION RECEIVER

**REVISION 1
MFR'S VERSION K**

MFR'S VERSION	V801
I	A34AGT13X98(L)
K	A34JXV70X53N45

Change of CRT

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	MFR'S VERSION I		MFR'S VERSION K	
	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
△ V801	098Q1404B2	CRT W/DY A34AGT13X98(L)	098Y1404B9	CRT W/DY A34JXV70X53N45
△ R429	R655812R7J	R,FUSE 2.7 OHM 1W	R655812R2J	R,FUSE 2.2 OHM 1W
C804	CS0KB04K2K	CC 270 PF 50V B	CS0KB04L2K	CC 330 PF 50V B
C805	CS0KB04K2K	CC 270 PF 50V B	CS0KB04L2K	CC 330 PF 50V B
C806	CS0KB04K2K	CC 270 PF 50V B	CS0KB04L2K	CC 330 PF 50V B
PCB010	A3J828A010	MAIN PCB ASS'Y (VERSION I) TMX494B	A3J804C010	MAIN PCB ASS'Y (VERSION K) TMX494B

MAIN PCB's are not interchangeable.

SPEC.NO.	M3J8-27C
O/R NO.	K193002



SPECIFICATIONS

Model	DBTV1301 SERIES A	DBTV1901 SERIES A
AC Power Input:	120V, 60Hz	
AC Power Consumption:	54 Watts	73 Watts
Picture Tube:	13" (measured diagonally)	19" (measured diagonally)
Horizontal resolution:	260 lines	
Audio Power Output Rating:	1.0 Watts	1.5 Watts
Speaker:	3" Full Range, 8 ohm	
Tuner Type:	181 Channel, Quartz PLL Frequency Synthesized	
Remote Control:	Infrared, Direct Access, 2 x AAA batteries (not supplied)	
Receiving Channels:	VHF 2-13 UHF 14-69 CATV 01-97 (5A)-(A-3) 98-99 (A-2)-(A-1) 14-22 (A)-(I) 23-36 (J)-(W) 37-65 (AA)-(FFF) 66-125 (GGG)-(125)	
Antenna Input Impedance:	75 Ohm (VHF/UHF/CATV) Coaxial Input	
Input:	Video: 1.0 Vp-p/75 ohm Audio: -8dB/47k ohm	
Dimensions:	14-1/4" (W) x 14-3/16" (D) x 12-5/8" (H)	19-3/16" (W) x 18-5/16" (D) x 16-3/8" (H)
Weight:	20.9 lbs	38.6 lbs

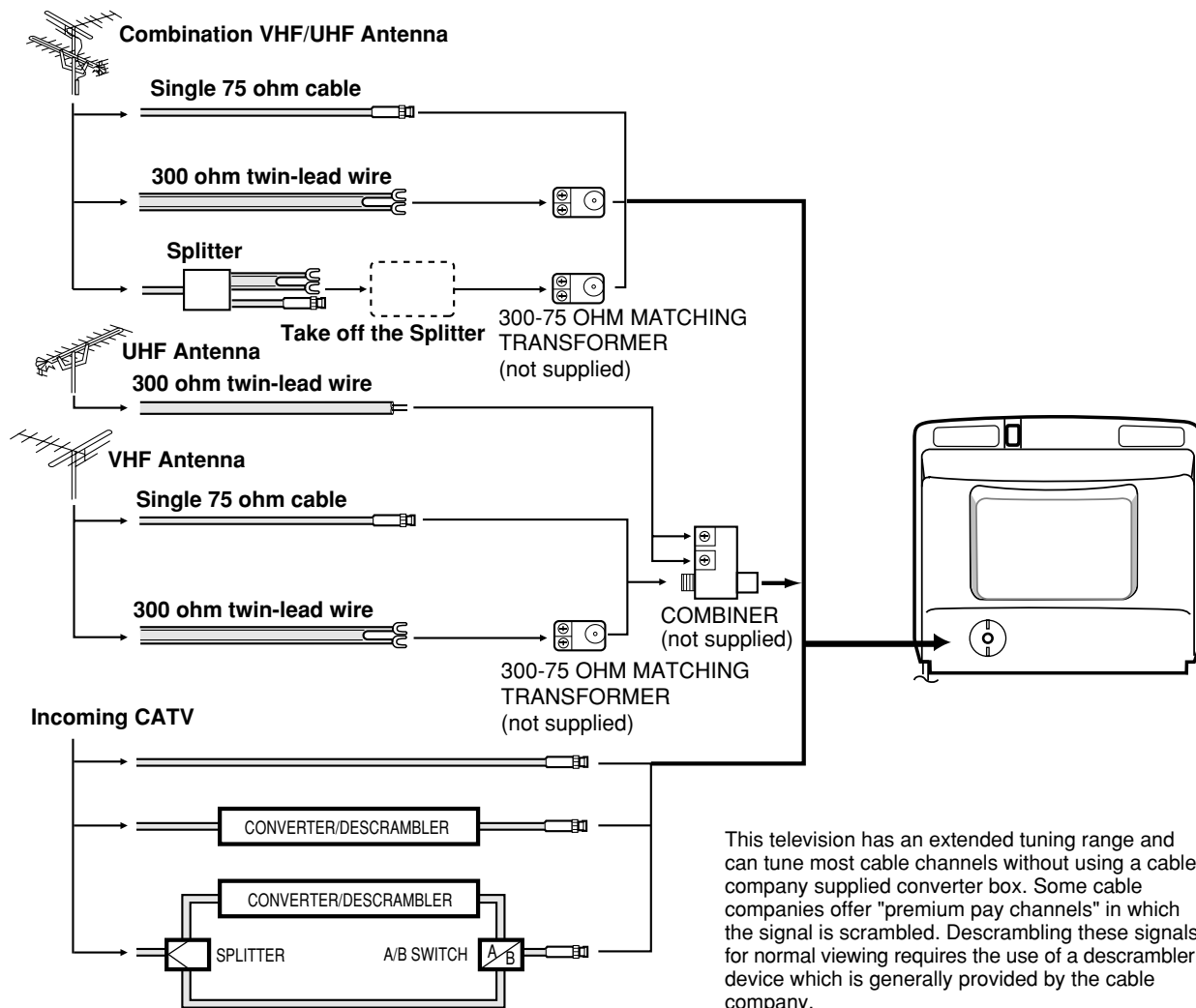
ACCESSORY

Remote Control

3L10501A **K**
02/01

Printed in Thailand

ANTENNA/CATV CONNECTIONS



This television has an extended tuning range and can tune most cable channels without using a cable company supplied converter box. Some cable companies offer "premium pay channels" in which the signal is scrambled. Descrambling these signals for normal viewing requires the use of a descrambler device which is generally provided by the cable company.

ENGLISH OWNER'S MANUAL

DURABRAND

COLOR TELEVISION

DBTV1301 SERIES A DBTV1901 SERIES A

CAUTION

Changes or modifications not expressly approved by the party responsible for compliance with the FCC Rules could void the user's authority to operate this equipment.

ATTENTION

If you purchase a universal remote control from your local retailer, please contact the remote manufacturer for the required programming code.

TV/CATV MODE SELECTION

When shipped from the factory, the TV/CATV menu option is set to the "CATV" (Cable Television) mode. If not using CATV, set this menu option to "TV" mode.

FEATURES

Quartz PLL Frequency Synthesized Tuning System - Electronically locks in and memorizes available channels for perfect reception.

181 Channel Tuner - The tuning system is capable of receiving all 68 VHF/UHF standard broadcast channels that are available in your area. When operating on a cable system, it can tune to the standard VHF channel frequencies plus up to 113 cable channel frequencies. The actual number of channels received depends upon channel reception in your area or your cable system.

On Screen 3 Language Display - This TV can display the on screen language in English, Spanish or French.

Picture Adjustments Using The Remote Control - The On-Screen display allows precise remote control adjustment of BRIGHTNESS, COLOR, CONTRAST, SHARPNESS, and TINT.

Sleep Timer - Operable from the remote control, this TV can be programmed up to 120 minutes to turn off automatically.

Memory Back Up - This system prevents loss of memorized channel selections in case a power interruption to the TV should occur.

Closed Captioned Decoder - Displays text captions or 1/2 of full screen text on the screen for hearing impaired viewers.

Front Audio/Video In Jack - A VCR or other video device may be hooked up.

V-Chip - The V-Chip function can read the rating of a TV program or movie content if the program is encoded with this information. V-Chip will allow you to set a restriction level.

Combination VHF/UHF Antenna (Single 75 ohm cable or 300 ohm twin-lead wire)

Connect the 75 ohm cable from a combination VHF/UHF antenna to the antenna jack.

If your combination antenna has a 300 ohm twin-lead wire, use the 300-75 ohm matching transformer (not supplied).

Combination VHF/UHF Antenna (Separate VHF and UHF 300 ohm twin-leads)

Connect the UHF twin-lead wire to a combiner (not supplied). Connect the VHF twin-lead to the 300-75 ohm matching transformer (not supplied). Attach the transformer to the combiner. Attach the combiner to the antenna jack.

Separate VHF/UHF Antennas

Connect the 75 ohm cable from the VHF antenna and the UHF antenna twin-lead to a combiner (not supplied). Attach the combiner to the antenna jack.

NOTE: If your VHF antenna has a twin-lead wire, use the 300-75 ohm matching transformer (not supplied), then connect the transformer to the combiner.

For Subscribers to Basic Cable TV Service

For basic cable service not requiring a converter/descrambler box, connect the CATV 75 ohm coaxial cable directly to the antenna jack on the back of the television.

For Subscribers to Scrambled Cable TV Service

If you subscribe to a cable service which requires the use of a converter/descrambler box, connect the incoming cable to the converter/descrambler box and connect the output of the box to the antenna jack on the back of the television. Follow the connections shown left. Set the television to the output of the converter/descrambler box (usually channel 3 or 4) and use the converter/descrambler box to select channels.

For Subscribers to Unscrambled Basic Cable with Scrambled Premium Channels

If you subscribe to a cable service in which basic cable channels are unscrambled and premium channels require the use of a converter/descrambler box, you may wish to use a two-set signal splitter (sometimes called a "two-set coupler") and an A/B switch box from the cable installer or an electronics supply store. Follow the connections shown left. With the switch in the "B" position, you can directly tune any unscrambled channels on your TV. With the switch in the "A" position, tune your TV to the output of the converter/descrambler box (usually channel 3 or 4) and use the box to tune scrambled channels.

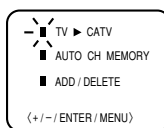
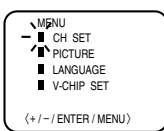


TO MEMORIZE CHANNELS

This TV is equipped with a channel memory feature which allows channels to skip up or down to the next channel set into memory, skipping over unwanted channels. Before selecting channels, they must be programmed into the TV's memory. In addition to normal VHF and UHF channels, this TV can receive up to 113 Cable TV channels. To use this TV with an antenna, set the TV/CATV menu option to the TV setting. When shipped from the factory, this menu option is in the CATV setting.

TV/CATV SELECTION

- 1 Press the MENU button.
- 2 Press the SET + or - button until the indicator next to "CH SET" begins to flash, then press the ENTER button.
- 3 Press the SET + or - button until the indicator next to "TV/CATV" begins to flash.
- 4 Press the ENTER button to select the TV or CATV mode. The arrow indicates the selected mode.
- 5 Press the MENU button twice to return to normal TV viewing.



The chart below is typical of many cable system channel allocations.

CATV CHART

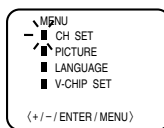
Number on this TV	14	15	16	17	18	19	20	21	22
Corresponding CATV channel	A	B	C	D	E	F	G	H	I
23	24	25	26	27	28	29	30	31	32
J	K	L	M	N	O	P	Q	R	S
41	42	43	44	45	46	47	48	49	50
EE	FF	GG	HH	II	JJ	KK	LL	MM	NN
59	60	61	62	63	64	65	66	67	68
WW	AA	BB	CC	DD	EE	FF	GG	HH	II
77	78	79	80	81	82	83	84	85	86
RRR	SS	TTT	UUU	VVV	WWW	XXX	YYY	ZZZ	88
95	96	97	98	99	100	101	102	103	104
A-5	A-4	A-3	A-2	A-1	100	101	102	103	104
113	114	115	116	117	118	119	120	121	122
113	114	115	116	117	118	119	120	121	122

NOTE:

Contact your cable company to determine the type of cable system used in your area.

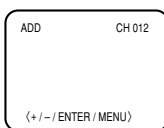
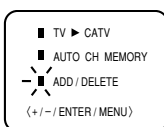
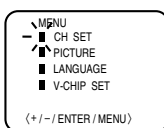
AUTOMATIC CHANNEL MEMORY

- 1 Press the MENU button.
- 2 Press the SET + or - button until the indicator next to "CH SET" begins to flash, then press the ENTER button.
- 3 Press the SET + or - button until the indicator next to "AUTO CH MEMORY" begins to flash, then press the ENTER button. The TV will begin memorizing all the channels available in your area. Channel numbers will remain red until auto memorizing is complete.
- 4 Press the MENU button twice to return to normal TV viewing.



TO ADD/DELETE CHANNELS

- 1 Press the MENU button.
- 2 Press the SET + or - button until the indicator next to "CH SET" begins to flash, then press the ENTER button.
- 3 Press the SET + or - button until the indicator next to "ADD/DELETE" begins to flash, then press the ENTER button.
- 4 Select the desired channels to be added or deleted using the Direct Channel Selection buttons (10 keys, 0-9), the CH ▲ or ▼ button or the SET + or - button.
- 5 Press the ENTER button to select ADD or DELETE. If an unmemorized channel was selected (step 4), the channel indication will be red. Press the ENTER button if you wish to ADD the unmemorized channel. The channel indicator will change from red to green when a channel is added and the channel will be memorized. If a memorized channel was selected (step 4), the channel indication will be green. Press the ENTER button if you wish to DELETE the channel from memory. The channel indicator will change from green to red when a channel is deleted. Repeat Steps 4 and 5 for each channel to be added or deleted.
- 6 Press the MENU button three times after adding or deleting all of the desired channels, to return to normal TV viewing.



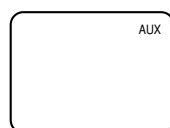
CONNECTION TO OTHER EQUIPMENT

The exact arrangement you use to interconnect various video and audio components to the TV is dependent on the model and features of each component. Check the Owner's Manual provided with each component for the location of video and audio inputs and outputs. The connection diagrams in the following are offered as suggestions. You may need to modify them to accommodate your particular assortment of components. The diagrams are intended to show component video and audio interconnections only. Press the TV/AV selector button to select the AV mode to use the TV as a monitor. Operate your VCR as usual.

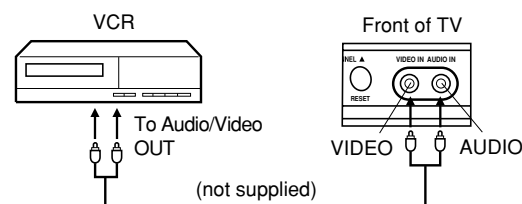
TV/AV SELECTION

If you connect the TV to VCR, camcorder or TV game, you can select by pressing the TV/AV button.

Press the TV/AV button repeatedly to select the desired mode. "AUX" will display on the screen for 4 seconds.

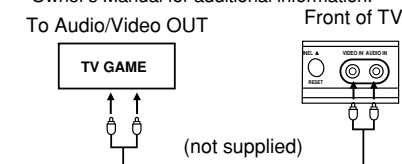


1. To connect the TV to a VCR



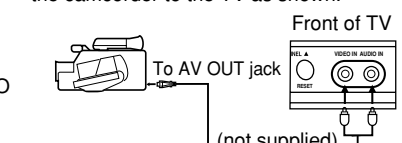
2. To connect the TV to a TV Game

The TV can also be used as a display device for many video games. However, due to the wide variety of different types of signal generated by these devices and subsequent hook-up variations required, they have not all been included in the suggested connection diagrams. You'll need to consult each component's Owner's Manual for additional information.



3. To connect the TV to a camcorder

To playback from the camcorder, connect the camcorder to the TV as shown.



ADJUSTING PICTURE

You can adjust the settings for color, sharpness, contrast, brightness and tint.

- 1 Press the MENU button.
- 2 Press the SET + or - button until the indicator next to "PICTURE" begins to flash, then press the ENTER button.
- 3 Press the ENTER button repeatedly to select the item you want to adjust.
BRIGHTNESS → CONTRAST → COLOR → TINT → SHARPNESS
- 4 Press the SET + or - button to adjust the setting.

	+	-
BRIGHTNESS	increase brightness	decrease brightness
CONTRAST	increase contrast	decrease contrast
COLOR	be brilliant color	be pale color
TINT	be greenish color	be reddish color
SHARPNESS	makes picture clearer	makes picture softer

TO RETURN TO INITIAL SETTING

Press the RESET button while the picture adjusting mode appears on-screen.

TROUBLESHOOTING GUIDE

Before requesting service, please refer to the following chart for the symptom and possible solution.

SYMPTOMS	POSSIBLE SOLUTIONS
TV does not operate	<ul style="list-style-type: none"> • Make sure the power cord is plugged in. • Try another AC outlet. • Power is off, check fuse or circuit breaker. • Unplug unit for an hour, then plug it back in.
Poor sound or No sound	<ul style="list-style-type: none"> • Station or CATV experiencing problems, tune to another station. • Check sound adjustments (VOLUME and MUTING). • Check for sources of possible interference.
Poor picture or No picture	<ul style="list-style-type: none"> • Station or CATV experiencing problems, tune to another station. • Make sure channels are set into memory. • Check antenna or CATV connections, adjust antenna. • Check for sources of possible interference. • Check picture control adjustments.
Poor reception on some channels	<ul style="list-style-type: none"> • Station or CATV experiencing problems, tune to another station. • Make sure channels are set into memory. • Station is weak, adjust antenna to receive desired station. • Check for sources of possible interference.
Poor color or no color	<ul style="list-style-type: none"> • Station or CATV experiencing problems, tune to another station. • Make sure channels are set into memory. • Check picture control adjustments. • Check antenna or CATV connections, reorient antenna. • Check for sources of possible interference.
Picture wobbles or drifts	<ul style="list-style-type: none"> • Station or CATV experiencing problems, tune to another station. • Make sure channels are set into memory. • CATV company is scrambling signal. • Adjust antenna.
No CATV reception	<ul style="list-style-type: none"> • Check all CATV connections. • Set TV/CATV menu option to the CATV mode. • Station or CATV system problems, try another station.
Horizontal or diagonal bars on screen	<ul style="list-style-type: none"> • Check antenna connections, adjust or re-direct antenna. • Check for sources of possible interference.
No reception above channel 13	<ul style="list-style-type: none"> • Make sure TV/CATV menu option is in the appropriate mode. • If using antenna, check UHF antenna connections.
No Remote operation	<ul style="list-style-type: none"> • Batteries are weak, dead or inserted incorrectly. • Remote is out of range, move closer to TV (within 15 feet). • Make sure Remote is aimed at sensor. • Confirm there are no obstructions between the Remote and the TV. • Make sure the power cord is plugged in.
TV shuts off	<ul style="list-style-type: none"> • No broadcast on station tuned. • Sleep Timer is set. • Power interrupted.
No reception	<ul style="list-style-type: none"> • Reset your password.
Closed - Caption is not activated	<ul style="list-style-type: none"> • TV station experiencing problems or program tuned is not closed captioned. Try another channel. • Check CATV connection or VHF/UHF antenna, reposition or rotate antenna. • Press TV/CAP/TEXT button to turn on the closed caption decoder.
Display is not shown in your language	<ul style="list-style-type: none"> • Select proper language in the menu options.

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	DBTV1301		DBTV1301-04	
	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
R622	R903N8121J	RC 120 OHM 1/8W	R903N8271J	RC 270 OHM 1/8W
C442	C0JLYR7H2K	CC 220 PF 2KV YR	C03LOR7H2K	CC 220 PF 2KV R
△ TU001	0145W00052	TUNER,VHF-UHF NJH3022U268	0145K00055	TUNER,VHF-UHF TECC1040PG32D
PCB010	A3J804A01A	MAIN PCB ASS'Y TMX494A	A3J828A010	MAIN PCB ASS'Y TMX494B
PCB110	A3J804A11A	CRT PCB ASS'Y TCX352A	A3J828A110	CRT PCB ASS'Y TCX352B

MECHANICAL REPLACEMENT PARTS LIST

REF. NO.	DBTV1301		DBTV1301-04	
	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
101	A3J804A720	CABINET, FRONT ASS'Y	A3J827A720	CABINET, FRONT ASS'Y
102	701WPJA917	CABINET,FRONT	701WPJB430	CABINET,FRONT
104	735WPA0381	BUTTON,FRAME	735WPBA305	BUTTON,FRAME
108	702WPAA134	CABINET,BACK	702WPBA066	CABINET,BACK
109	722552A008	SHEET,RATING	722552A012	SHEET,RATING
116	723000B319	FILM,DECORATION	723000B720	FILM,DECORATION
---	J3J80401	INSTRUCTION BOOK	J3J82701	INSTRUCTION BOOK
---	A3J804C975	INSTRUCTION BOOK KIT	A3J827A975	INSTRUCTION BOOK KIT
---	793WCDA973	GIFT BOX	793WCDB064	GIFT BOX

NOTE FOR THE REPLACING OF MEMORY IC

ADDRESS	DBTV1301	DBTV1301-04
	DATA	DATA
02	A0	A2

ELECTRICAL ADJUSTMENTS

(MFR'S VERSION I)

2-1: RF DELAY

1. Place the set with Aging Test for more than 15 minutes.
2. Receive an 64dB monoscope pattern.
3. Connect the digital voltmeter between the **R606**.
4. Activate the adjustment mode display of **Fig. 1-1** and press the channel button (**02**) on the remote control to select "RF DELAY".
5. Press the VOL. UP/DOWN button on the remote control until the digital voltmeter is $2.7V \pm 0.05V$.

SPEC.NO.	M3J8-27A
O/R NO	K183023