

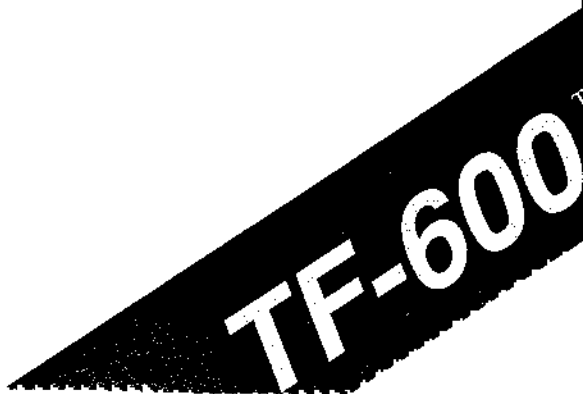


TIMEFRAME SERIES TF600

DCM's TimeFrame 600 is a sophisticated, high end audio product which is capable of extraordinary sound reproduction in any audio / video system. The TimeFrame 600's are viable competitors to products in the \$800 - \$1200 price range from many of the industry's other quality loudspeaker manufactures.

MODEL	DCM CORP. TIMEFRAME 600	AR M6	BOSTON ACOUSTICS T-1020	B&W DM-620	INFINITY RS-6KAPPA	JBL L3	KEF REFERENCE 102/2	KLIPSCH HERESY II	NHT 2.3	POLK MONITOR 12 SERIES 2
RETAIL PER PAIR	\$699.00	\$1299.00	\$1200.00	\$1100.00	\$998.00	\$850.00	\$1200.00	\$930.00	\$1199.95	\$999.90
LOW FREQUENCY RESPONSE	42Hz	42Hz	40Hz	53Hz	39Hz	42Hz	50Hz	50Hz	35Hz	35Hz
SPL RATING 1 WATT / 1 METER	92 db	90 db	90 db	91 db	88 db	89 db	89 db	96 db	86 db	91 db
MINIMUM AMPLIFIER POWER REQUIREMENTS	5 watts	20 watts	15 watts	25 watts	30 watts	30 watts	25 watts	20 watts	40 watts	20 watts
NOMINAL IMPEDANCE	6 ohms	4 ohms	8 ohms	4 ohms	4 ohms	8 ohms	4 ohms	8 ohms	4 ohms	8 ohms
SELF RESETTING PROTECTION CIRCUIT	YES	NO	NO	YES	NO	NO	YES	NO	NO	NO
NUMBER OF DRIVERS	5	4	4	3	3	2	3	3	4	6
VIDEO SHIELDED	YES	NO	NO	NO	NO	NO	NO	NO	YES	NO
DIMENSIONS	41X17X8	42X8X11	43X10X12		25X15X11	33X10X12		22X16X13	37X7X12	38X16X12
ENCLOSURE TYPE	Straggled Transmission Line W/Rear Firing Port	Acoustic Suspension	Acoustic Suspension	Vented	Sealed Box	Tuned Port	Coupled Cavity	Infinite Baffle	Acoustic Suspension	Passive Radiator

SOURCE: Audio's 34th Annual Equipment Directory (10/91) and Manufacturers Literature.
* Specification not published.



TF-600 Owner's Instructions

Thank you for choosing the TF600 Co-axial loudspeaker system. We are confident that you will appreciate your recordings more as time passes, and discover the many benefits of the advanced technology incorporated into the TF600.

UNPACKING

Each shipping carton contains one TF600 speaker and a warranty card. After carefully unpacking your TF600's, please save the boxes and the packing materials for possible use later. If either speaker appears to be damaged, please do not attempt to connect them. Repack both speakers in their original cartons and notify your DCM dealer.

CONNECTION

Turn off your amplifier and unplug it from the power outlet before attempting to connect your speakers. We recommend 16 gauge (or larger) speaker wire. Strip away approximately 1/2 inch of insulation off each wire conductor. Connect one conductor to the negative (black) terminal of the left speaker. Connect the other end of the same conductor to the negative output terminal on the left channel of your amplifier. Note that most speaker wire is color coded, or ribbed on one side, for easy identification of positive and negative leads.

Similarly, connect the positive (red) terminal of the left speaker to the positive output terminal in the left channel of your amplifier. Repeat these steps to connect the right speaker to the right output channel of the amplifier. Be sure there are no loose strands of wire at the terminals. Loose wires can create short circuits that may damage the amplifier.

You may plug in your amplifier and begin to enjoy your TF600's. Now might be a good time to fill in your warranty card, recording serial numbers, date of purchase, and dealer name and address.

SPEAKER PLACEMENT -

*TF600 is a mirrored right + left pair
DCM logs go to inside*

First, for stability, be sure to pull out the two pivoting support feet from the bottom rear of each speaker. These will prevent the speakers from toppling on a heavy padded carpet, and also afford the rear clearance necessary for the rear firing port and ambient field tweeters.

The TimeFrame design elevates the speakers inside the enclosure to an optimum ear level position when the TimeFrames are placed directly on the floor. The broad dispersion characteristics of the front co-axial drivers and rear firing ambient field tweeters make possible a variety of positions which will still yield a focused accurate stereo image, but an ideal starting point is to try to achieve an "equilateral triangle" placement, with the loudspeakers as far from each other as from the listener.

Best bass response is obtained by placing the speakers on the floor 4 to 8 inches from the rear wall. Bass response may also be enhanced by moving the speakers nearer to room corners. Since the woofers of the TF600 are magnetically shielded, you may even place the speakers next to your video monitor, if necessary, with no ill effects. As all rooms have different acoustic properties, we encourage you to experiment with speaker placement.

MAINTENANCE

The solid oak tops and bottoms of your TF600 loudspeakers can be cleaned with a high grade furniture polish. Dust may be wiped from the grille cloth with a piece of felt, or carefully vacuumed if necessary. Do not place the speakers near radiators or other heat sources, such as direct sunlight, since these may fade colors over time.

FUSING

Any speaker can be damaged if the amplifier driving it should fail. Damage may also occur by playing music so loudly that it sounds distorted. This can happen even with a low powered amplifier. Your TF600's are very sturdy, and also incorporate an auto-reset circuit breaker which guards against certain types of electrical stress. Fusing can provide additional protection, and under certain operating conditions, may be recommended.

To properly install optional fuses (not provided), fuse holders should be inserted into the positive (+) wire connecting each speaker to your amplifier. Use 2 ampere, fast-blow Buss AGC Series or equivalent fuses.

WHAT TO DO IF YOU NEED SERVICE

DCM loudspeakers have a history of extremely high reliability. However, should your TF600's require service, please contact your dealer. If for some reason this is inconvenient, please contact DCM Corporation directly.

TF600 TECHNICAL SPECIFICATIONS

Sensitivity:	92 db/1 watt/1 meter
Recommended Amplifier Power:	10 watts to 250 watts
Maximum Power handling:	250 watts RMS peal program
Impedance:	6 ohms nominal
Frequency Range:	30 Hz to 20 kHz
Enclosure Type:	Transmission line Rear - firing Port
Driver complement:	Two - 6.5 inch shielded magnet woofers Three - .75 inch tweeter, ferro - fluid cooled Front tweeter mounted co-ax with acoustic lens
Dimensions:	41 x 8 3/4 x 17 inches H x D x W
Weight:	47 pounds each

 **DCM* Corporation**

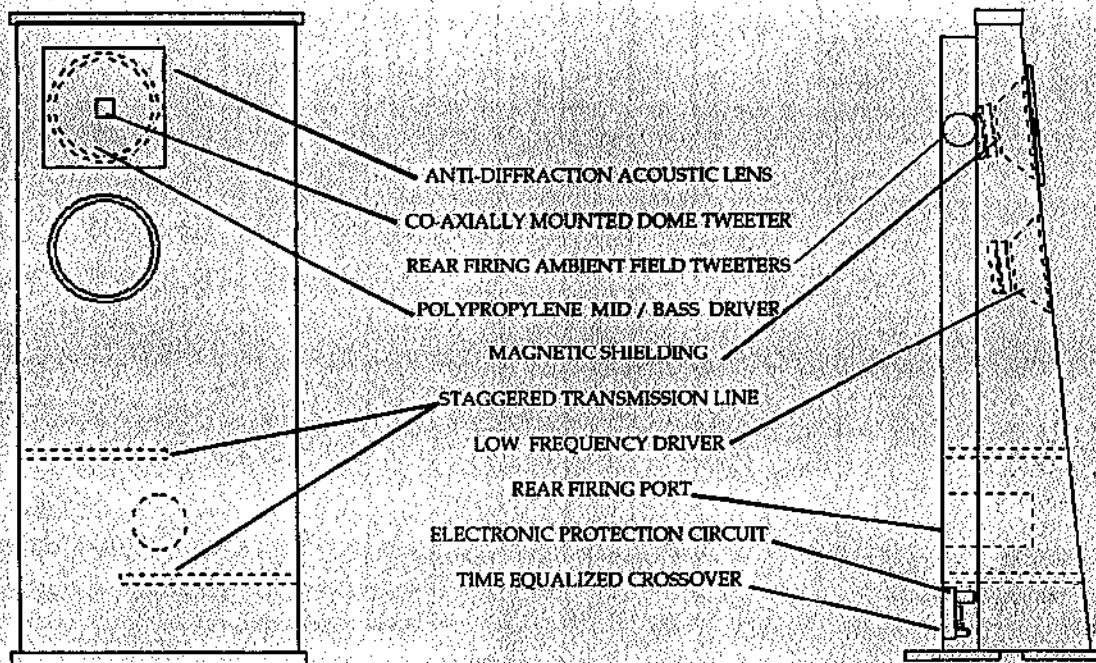
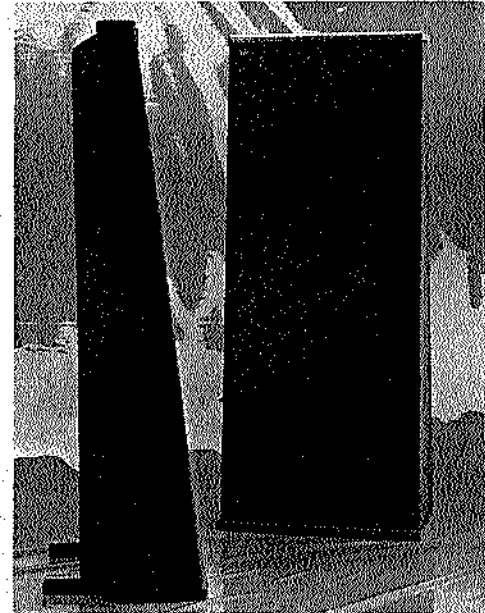
DCM[®] Corporation

INSIDE THE TIMEFRAME 600

The **DISTINCTIVE SHAPE** of this **MIRROR-IMAGED** pair uses **DUAL WOOFERS** loaded in DCM's unique **TRANSMISSION LINE** enclosure with **REAR FIRING PORT** to provide deep, detailed bass response.

DCM'S combination of their **ANTI-DIFFRACTION ACOUSTIC LENS**, **CO-AXIAL & REAR FIRING TWEETER ARRAY** and **TIME EQUALIZED CROSSOVER** assures a focused stereo image anywhere in the listening room.

HIGH SENSITIVITY (92 db / 1 watt / 1 meter), **MAGNETICALLY SHIELDED DRIVERS** and self-resetting **ELECTRONIC PROTECTION CIRCUITRY** maximizes audio / video flexibility and long term reliability.



DCM[®] Loudspeakers

REPAIR MANUAL

DCM SPEAKER REPAIR PROCEDURE

Tools Required:

- (1) Rubber mallet
- (2) Wood Block (optional)
- (3) Razor Knife
- (4) 3M Spray 74 adhesive--or your choice of quick drying spray adhesive.
- (5) Black latex caulk
- (6) Assorted screwdrivers, flat tip, phillips.

Disassembly Instructions for Time Frames, TimePiece and HalfTime:

(1) Top and Bottom Removal:

For top, use rubber mallet to strike upward on ends of oak trim to remove it. Be careful to ensure that only the ends of the trim are struck to avoid splitting the oak. The oak trim is held in place by spring steel fasteners called Mod-eez. If a rubber mallet is not available, use a short piece of scrap wood to strike against the under side of the oak trim. Try to keep trim even by striking both ends of trim and alternating until trim is free of cabinet. To remove bottom, remove the two wood screws.

NOTE: It is unnecessary to remove bottom to work on drivers or crossovers. See *Grille Cloth Removal* for further details.

(2) Grille Cloth Removal:

Peel grille cloth away from cabinet, slide down to expose driver array. If grilles must be replaced, ensure that all screws are removed from terminal cup, remove bottom oak trim and the bolts holding the rear support feet, if any. Now the grille cloth sock can be removed entirely.

(3) Driver removal:

Remove staples or screws securing lens assembly on required models to expose HF driver screws. Remove all screws from face plate of driver. If necessary, use a razor knife to free basket from caulk around face plate of HF driver. Note wire color and terminal locations of each driver.

(4) Crossover removal:

Remove flathead screws holding terminal cup to cabinet. Crossover is mounted on back of the terminal cup. Remove screws holding crossover to terminal cup. Wiring order should match color code and order in this manual. If not, note location or label wires before removing wires from leads to ensure proper order when replacing.

Assembly Instructions for Time Frames, Time Piece and HalfTime:

(1) Crossover Replacement:

Attach clips (or resolder if clips weren't used) to board using wiring diagram as reference. Mount crossover on back of terminal cup and replace screws that hold crossover to terminal cup. Insert crossover back into the cabinet. Replace flathead screws holding terminal cup to cabinet.

(2) Driver and Tweeter Replacement:

a. Driver: Reconnect wires to driver. Maintain proper phase connections.

Note: *If driver hole has a beveled edge (inset), a bead of black latex caulk must be applied to the beveled edge for proper air seal.* Insert driver and replace all screws for face plate of driver. Replace screws (or if staples were used, restaple) on lens assembly on required models.

b. Tweeter: Reconnect wires to tweeter. Maintain proper phase connections.

Insert tweeter and replace all screws. **Note:** *Tweeters not in lens assembly--insert tweeter and replace screws. Apply a bead of black latex caulk where the tweeter meets the edge of the cabinet. Level caulk with your finger, sealing the edge of the tweeter to ensure against air leakage.* (For further instructions on tweeter assembly see *Tweeter Lens Assembly*)

(3) Grille Replacement:

Pull grille onto cabinet. Keep seam in back and centered. Center grille from top and bottom. Apply spray adhesive on top and bottom of cabinet only, one end at a time. Once grille is pushed into place, cut away any grille material not held by glue. Make sure Mod-eez holes are clear. Cut holes in grille just large enough to replace terminal cups and (in TF400's and TF600's) ports.

(4) Top and Bottom Replacement:

Replace top by positioning mod-eez over holes. Using rubber mallet, hit firmly over mod-eez one side at a time until top can go no further. Replace bottom by reinserting wood screws and tightening firmly.

IMPORTANT:

If the woofer has been replaced, the tweeter lens may need to be adjusted. Many of the Time Frames and the Time Piece have 6 1/2 inch woofer with a 3/4 inch plastic dome tweeter mounted on a lens. The lens consists of felt, thinsulate and wire cloth. The lens is mounted over the woofer coaxial-style thereby creating virtual point source. The lens also serves to smooth the off axis frequency response. **The lens must be adjusted to prevent the woofer's rubber surround from hitting the inner screen of the lens assembly or the woofer from hitting the tweeter magnet.** For steel wire assemblies on older models, bending the inner lens slightly so the tweeter is further away from the woofer will usually solve the problem. If woofer still hits, adjust the lens away from it by backing off the four corner screws one turn each. Repeat if necessary. For **formed steel assemblies**, the inner and outer lens should be pushed together firmly before inserting on to cabinet. The inner lens may have to be bent **slightly outward**. If the woofer comes in contact with the assembly, adjust the lens by backing off the four corner screws one turn each. Repeat if necessary.

If further technical information is needed, please call DCM Corp. at 1-800 556 2888

cx+209

Grille Removal and Replacement:

(1) Top and Bottom Removal:

For top, put a piece of scrap wood or metal against the under side of the trim. Hit the scrap piece with a hammer. Move the piece along the edge of the top and hit it until it breaks free. The top is caulked into place and must be removed with force. Once the top is removed, clean the dried caulk from top and cabinet with a chisel.

To remove bottom, remove the four wood screws.

See *Grille Cloth Removal* for further details.

(2) Grille Cloth Removal:

Peel grille cloth away from cabinet, slide down to expose driver array. If grilles must be replaced, ensure that all screws are removed from terminal cup, remove bottom trim. Now the grille cloth sock can be removed entirely.

(3) Grille Cloth Replacement.

Pull grille onto cabinet. Keep seam in back and centered. Center grille from top and bottom. Apply spray adhesive on top and bottom of cabinet only, one end at a time. Once grille is pushed into place, cut away any grille material not held by glue. Make sure Mod-eez holes are clear. Cut holes in grille just large enough to replace terminal cups and ports.

(4) Top and Bottom Replacement:

Replace top by applying wood caulk to the top and centering it on the cabinet. We recommend using a combination of hot glue and Franklin wood adhesive. Turn speaker up-side-down so it rests on the top. Let dry for 24 hours. The top should not be able to move after the hot glue dries (about ten minutes) but do not attempt to handle it until the wood caulk dries. Replace bottom by reinserting wood screws and tightening firmly.

DCM TimeFrame TF1000 Wiring Diagram

System Description:

- One 8" paper woofer
- One 4" paper midrange
- One 3/4" soft dome tweeter

Input Terminals

Looking at circuit board: pins on bottom

Green	Red	Black	Blue	Brown	White
-tweet	+mid	-woof	-tweet	-mid	+woof

Please note:

In some cases, the wire color could be different. However, the order (from left to right) on the circuit board remains the same. As a general rule, lighter colors are positive (+) and darker colors are negative.