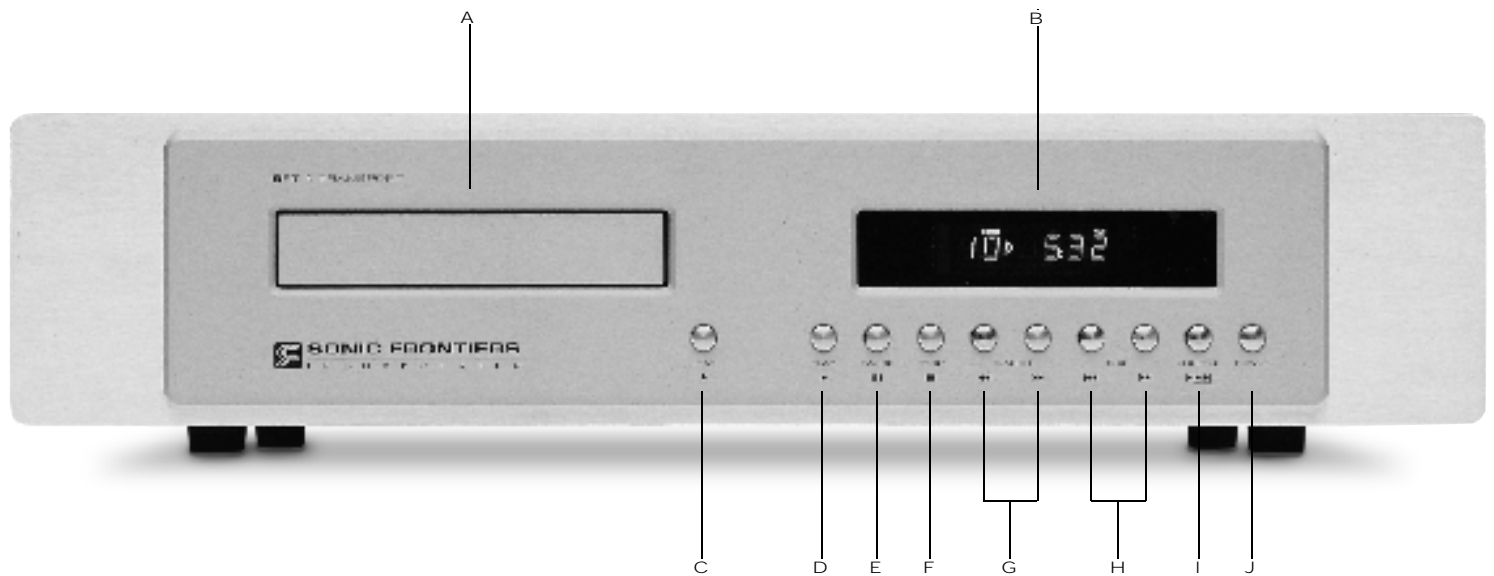


OWNER'S MANUAL

THE SONIC FRONTIERS SFT-1 TRANSPORT



## CONTROL FUNCTIONS AND CONNECTIONS



**A - Loading Drawer** - This is the mechanism for loading CDs for play in the SFT-1. The drawer is opened by depressing the LOAD (C) button. A CD is placed in the tray's circular depression, label side up and lying flat. The drawer is closed, and the CD is loaded for play, by depressing the LOAD (C) or PLAY (D or T) buttons. Although the drawer will also close by pushing gently on the drawer front, it is recommended that a button control be exclusively used for this function.

**B - Display Window** - The display window gives the operating status of the SFT-1. When a CD is loaded, the total number of tracks and total time will be displayed. When the SFT-1 is put in play mode, the track being read is displayed with an arrow indicating play and is followed by the time of the individual track. Also displayed are: NO DISC, when power is on and no CD is in the drawer; and OPEN, PAUSE, REPEAT and PROGRAM, when these functions are selected.

**C - Load Button** - When depressed, this button will open and close the LOADING DRAWER (A). It will also clear any set functions such as programming, repeat or shuffle from memory.

**D - Play Button** - When depressed, this button will put the transport in play mode. During play mode, the CD is being read and a digital datastream is being transmitted from the chosen digital output (M through P).

**E - Pause Button** - When depressed, this button will stop the transmission of the digital datastream at the precise moment it is engaged, and will hold that position until play is resumed by depressing the PAUSE (E or U) button again.

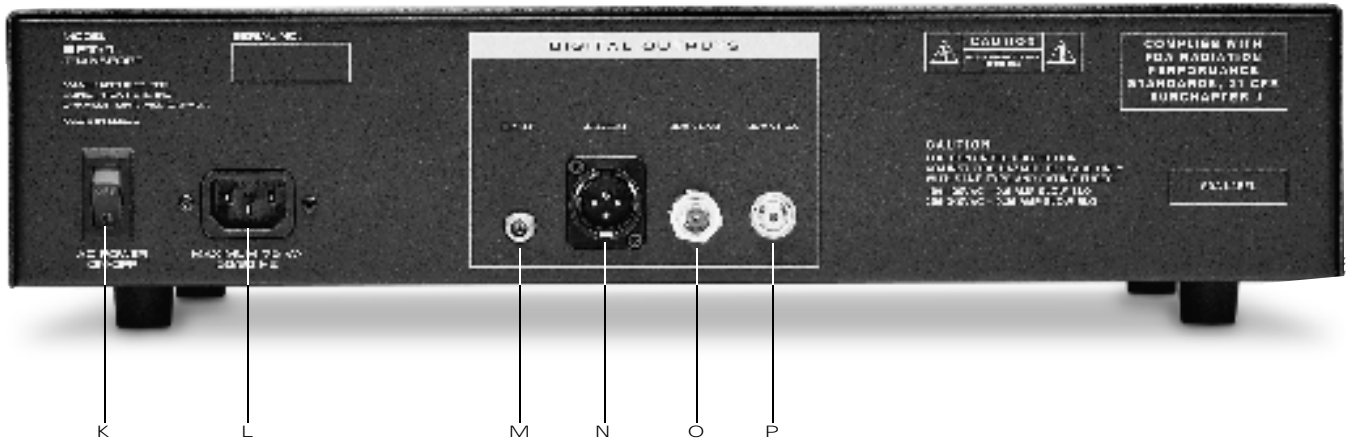
**F - Stop Button** - When depressed, this button will stop all functions, taking the CD out of play mode and aligning the transport to the first track or the first programmed track. Depressing the STOP button when the CD is not in play mode will clear programmed tracks from memory or clear other selected functions such as SHUFFLE and REPEAT.

**G - Search Reverse and Forward Buttons** - When depressed and held, these buttons allow a 10 second audible fast forward or reverse search of a track in play mode. After the 10 second audible search, the SFT-1 will mute and proceed in a faster search. The time positioning and the track are shown in the DISPLAY WINDOW (B).

**H - Skip Reverse and Forward Buttons** - When depressed, these buttons will position the laser to read the start of the track either before (skip reverse) or after (skip forward) the original position of the laser. The transport may be in the play, pause, or stop mode. Play will continue forward from this chosen track.

**I - Shuffle Button** - When depressed before the PLAY button (D or T), this button will randomize the order in which the tracks are played.

**J - Power Button** - When depressed, this button will allow power to the transport for full-function control, or it will turn off the SFT-1 when the transport is no longer in use. The MAIN POWER SWITCH (K), located on the rear of the SFT-1, must be in the "on" position for this button to work.



K - Main Power Switch - This switch must be in the "on" position for the SFT-1 to operate. When the POWER button (J) has rendered the unit's control functions off, this switch allows power to continue to circulate to sections of the transport so the unit will operate at maximum efficiency with no warm-up time required. This switch should remain on at all times.

L - Detachable Power Cord Socket - Plug the Detachable Power Cord into this socket (see Figure 1). The SFT-1 is factory set for the correct operating voltage for the area in which it is sold (see shipping box for voltage setting). If a different operating voltage is required, please contact an authorized Sonic Frontiers dealer, distributor or the factory directly.

M-H-P/ST (Glass Fibre) Optical Output - If chosen for use, this digital output must connect to an ST-Optical input on the DAC.

N - AES/EBU XLR Output - This digital output conforms to the AES/EBU (Audio Engineering Society/European Broadcast Union) standard. If this output is chosen for use, a 110 ohm balanced cable terminated with XLR plugs should be used for a connection to the DAC.

NOTE: The XLR jack pin connectors for the SFT-1 are configured as follows:

- Pin #1 : Ground
- Pin #2 : Positive (+) Phase
- Pin #3 : Negative (-) Phase

O - Coaxial BNC Cable Output - This digital output is a BNC S/PDIF connector. If chosen for use, this digital output should be connected to an S/PDIF connector on the DAC. The BNC - Coaxial cable impedance should be 75 ohms.

P - Coaxial RCA Cable Output - This digital output is an RCA S/PDIF connector. If chosen for use, this digital output should be connected to an S/PDIF connector on the DAC. The RCA - Coaxial cable impedance should be 75 ohms.

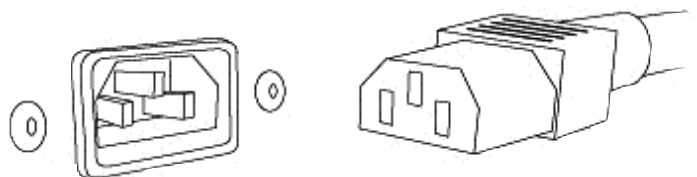
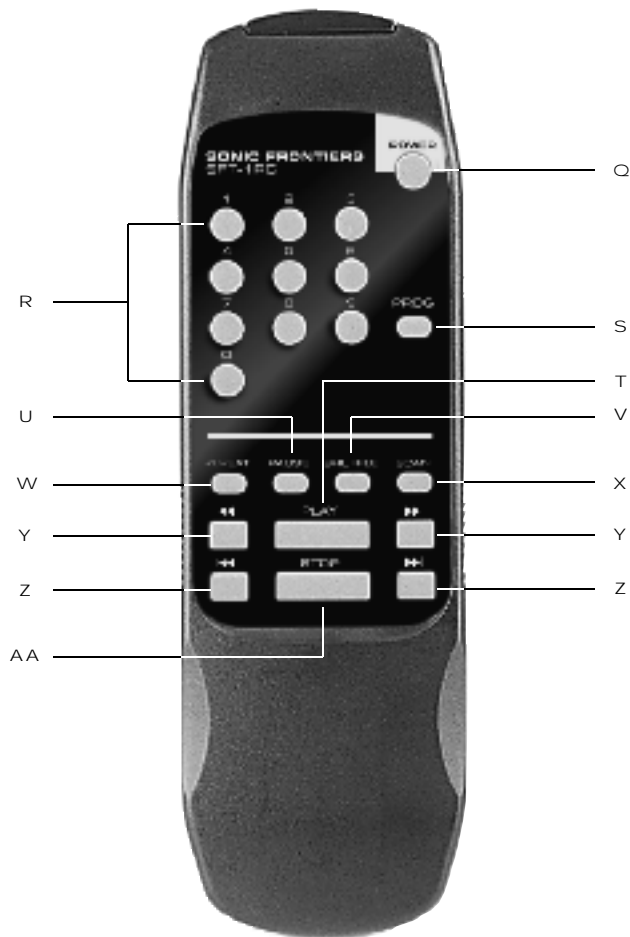


Figure 1 - Align socket pins to corresponding holes and push together firmly.

FUNCTIONS OF THE SFT-1 REMOTE CONTROL



Q - Power Button - When depressed, this button will allow power to the transport for full-function control, or it will turn off the SFT-1 when the transport is no longer in use. The MAIN POWER SWITCH (K), located on the rear of the SFT-1, must be in the "on" position for this button to work.

R - Numeric Keypad - This keypad allows tracks to be selected directly. Punch the desired track number and then the next function (either PLAY or PROGRAM) to complete the selection.

S - Program Button - Tracks selected through the KEYPAD (R) or SKIP (H or Z) buttons may be programmed for desired playback order by selecting a desired track then pushing the program button. Up to 20 tracks may be programmed into memory for playback. Tracks may only be programmed once; attempting to program a track twice will clear the track from memory. To clear the programmed material from memory, press the STOP (F or AA) button once before programmed play has begun, or twice consecutively during play.

T - Play Button - When depressed, this button will put the transport in play mode. During play mode, the CD is being read and a digital datastream is being transmitted from the chosen digital output (M through P).

U - Pause Button - When depressed, this button will stop the transmission of the digital datastream at the precise moment it is depressed, and will hold that position until play is resumed by depressing the PAUSE (E or U) button again.

V - Shuffle Button - When depressed before the PLAY button (D or T), this button will randomize the order in which the tracks are played. Depressing this button a second time will clear this function.

W - Repeat Button - When depressed once, this button will cause a CD in play mode to repeat the tracks in the order they appear on the CD or to repeat a programmed selection of tracks in the order they are programmed. When pressed twice, the Repeat One mode will be activated, causing the currently selected or playing track to be repeatedly played. Pressing this button a third time will clear this function.

X - Scan Button - When depressed, this button will cause the transport to scan the CD. During this scan the transport will play the first 10 seconds of each track.

Y - Search Reverse and Forward Buttons - When depressed and held, these buttons allow a 10 second audible fast forward or reverse search of a track in play mode. After the 10 second audible search, the SFT-1 will mute and proceed in a faster search. The time positioning and the track are shown in the DISPLAY WINDOW (B).

Z - Skip Reverse and Forward Buttons - When depressed, these buttons will position the laser to read the start of the track either before (skip reverse) or after (skip forward) the original position of the laser. The transport may be in the play, pause, or stop mode. Play will continue forward from this chosen track.

AA - Stop Button - When depressed, this button will stop all functions, taking the CD out of PLAY mode and aligning the transport to the first track or the first programmed track. Depressing the STOP button when the CD is not in play mode will clear programmed tracks from memory or clear other selected functions such as SHUFFLE and REPEAT.

#### OPERATION OF THE SFT-1 TRANSPORT

Before plugging in the SFT-1, check to see that the unit is configured for the correct AC line voltage for country of use. The operating AC line voltage is indicated on the side of the shipping box. If the SFT-1 Transport is set incorrectly for the country in which it is to be operated, contact the dealer or distributor in your area. If the unit is configured properly, continue with operation.

Connect the Detachable Power Cord to the SFT-1 chassis (see Figure 1) and plug your SFT-1 into the AC power source.

Load the Remote Control with 2 AAA size batteries.

Next choose the most appropriate digital output connector (M through P). With the appropriate cable connect the SFT-1 to your DAC's digital input.

The SFT-1 Transport is now ready for operation. Power the unit by placing the Power Switch (K) in the ON position. Next depress the Power Button (J or Q) and load the transport with a favorite CD. Select desired track(s) and press the Play Button (D or T). You are now ready to sit back, listen and enjoy.

#### BREAK-IN TIME

As with all audio electronic products, the ultimate sonic character of the SFT-1 will not be realized until and unless the unit receives a minimum of approximately 150 hours of signal break-in time (i.e. the SFT-1 is on and outputting a signal).

#### TROUBLESHOOTING

If at any time the SFT-1 Transport fails to work properly, consult this checklist:

If the SFT-1 will not turn on:

1. Check that the Main Power Switch (K) is in the on position.
2. Check that the AC Detachable Power Cord is plugged into the SFT-1 Detachable Power Cord Socket (L) and is connected to a live source of AC power. For instance, if using a power bar, check that the bar is turned on.

If the SFT-1 is operating but does not play:

1. Be sure the rest of the system is functioning properly (i.e. DAC, power amplifiers, cables and connections, etc.).
2. Check that the loading drawer is not jammed by an improperly loaded CD.
3. Check to ensure the CD has not been put in the transport with the label side down.
4. Be sure the CD is not damaged and is readable.

If the remote does not function, check to ensure that the two AAA batteries are fresh.

If these checks fail to correct the operation of the SFT-1 Transport contact the nearest Sonic Frontiers dealer or Sonic Frontiers directly.

#### SFT-1 PLACEMENT

Be sure the SFT-1 is resting on a hard, flat surface.

#### SAFETY INSTRUCTIONS

1. Water and Moisture - This product should not be used near water. To prevent fire or shock hazard, do not expose this product to rain or moisture.
2. Heat - This product should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances which produce heat.
3. Power Sources - This product should be connected to an AC power source of the proper rated voltage. The original shipping container will stipulate the AC voltage this unit can operate with correctly.
4. Cleaning - A regular dusting with a soft, non-abrasive cloth will generally keep the finish of the faceplate and chassis looking like new. At no time should you allow any liquid to come in contact with the SFT-1 Transport; it may run into the electronic circuitry and cause damage which will not be covered under your warranty.
5. Servicing - Do not open this product. No user serviceable parts inside. Refer servicing to an authorized service technician.
6. Non-Use Periods - The power cord of this product should be unplugged from the outlet when left unused for an extended period of time.

#### PACKING MATERIALS

We recommend that you retain all of the packing material and shipping boxes for your SFT-1 Transport to be covered by warranty. They are custom designed to prevent shipping damage from occurring. Sonic Frontiers, Inc. will accept no responsibility for any damage occurring to an SFT-1 Transport that is shipped in packing material other than the original Sonic Frontiers packing material.

#### DISCLAIMER OF LIABILITY

Under no circumstances does Sonic Frontiers, Inc. assume liability or responsibility for injury or damages sustained in the use or operation of this equipment or for damages to any other equipment connected to it.

Sonic Frontiers, Inc. reserves the right to make design changes or improvements without the obligation to revise prior versions. All specifications are subject to change without notice.

#### LIMITED FIVE YEAR WARRANTY

Sonic Frontiers, Inc. warrants to the purchaser that each SFT-1 Transport is free of manufacturing defects for a period of five (5) years from the date of purchase. This five (5) year limited non-transferable warranty excludes the transport mechanism, which we warrant for a period of twelve (12) months. To receive this warranty, the original purchaser must complete and mail to Sonic Frontiers, within thirty (30) days from the date of purchase, the enclosed Warranty Registration Card. Sonic Frontiers, Inc. will then validate the warranty to the original purchaser. This warranty is subject to the following conditions and limitations:

1. Warranty applies only to the original purchaser.
2. This warranty is void and inapplicable if the product has been handled other than in accordance with the instructions in this Owner's Manual, abused or misused, damaged by accident or neglect or in being transported, or the defect is due to the product being tampered with, modified or repaired by anyone other than Sonic Frontiers, Inc. or an authorized Sonic Frontiers repair depot.
3. Warranty does not cover normal maintenance.
4. Sonic Frontiers, Inc. shall not be responsible in any way for consequential or indirect damages or liabilities resulting from the use and operation of the product covered herein or resulting from any breach of this warranty or any implied warranty relating to said product.

During this stated period, Sonic Frontiers, Inc. will repair or replace any defective components free of charge. A Return Authorization Number (RA Number) is required before any product is returned to our factory for any reason. This number must be visible on the exterior of the shipping container(s) for Sonic Frontiers to accept the return.

Units shipped to us without a Return Authorization Number or without a visible RA Number on the exterior of the shipping container(s) will be returned to the sender, freight collect.

Units to be repaired by Sonic Frontiers, Inc. must be sent shipping and insurance prepaid by the original purchaser in the original packing material. A returned product should be accompanied by a written description of the defect and a copy of the original bill of sale. Repaired units will be returned by Sonic Frontiers, Inc. shipping and insurance prepaid. The sender's name, address and telephone or fax number must accompany the unit.

All other warranties or conditions either written or implied are void.

Note: In foreign markets (anywhere outside of Canada and the USA), the warranty is supplied by the authorized International Distributor. Exact terms and conditions may vary.

SFT-1 TECHNICAL SPECIFICATIONS

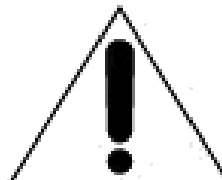
Wow and Flutter	Below measurable levels
Jitter	<2 ps rms, to 40 kHz at the clock Typically 10 ps rms, at the outputs (independently verified with UltraAnalog's latest Jitter Analyzer)
<b>Digital Outputs</b>	
AES/EBU Impedance	Balanced on XLR-3 connector 110 ohms, ±5%
Level	3.0V p-p typ with 110 ohm load
Tr=Tf	7 ns, typ
SPDIF Impedance	Single ended RCA connector 75 ohms, ±5%
Level	0.5V p-p typ with 75 ohm load
Tr=Tf	8 ns, typ
SPDIF Impedance	Single ended BNC connector 75 ohms, ±5%
Level	0.5V p-p typ with 75 ohm load
Tr=Tf	8 ns, typ
Glass-ST Power	HP HFBR-1414 60 uw into 62 um fibre
Laser, Semiconductor	GaAlAs, 0.5 mw, continuous, 790 nm
Sampling Rate	352.8 KHz
Disc Rotation Velocity	200-500 rpm (constant linear vel.)
Quantization	16 bits, linear
Error Correction	CIRC principle
Number of channels	2 channels, stereo
Dimensions	17" Wide x 11" Deep x 3.5" High (43 cm x 28 cm x 9 cm)
Weight	17 lbs (7.7 kg), unpacked
Warranty	5 years parts and labor on the unit 1 year on transport mechanism

**Danger - Invisible Laser radiation** when the cover is removed from the chassis. Avoid direct exposure to the beam.

**Warning - Fast heating** (eg. bringing the mechanism from a cold place into a warm and humid room) can result in moisture condensing on the lens. Before operation, the mechanism should stabilize for at least 4 hours.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

We at Sonic Frontiers are sure that you will derive many years of listening pleasure with your new SFT-1 Transport. This Owner's Manual contains important information regarding the operation and care of the SFT-1. Be sure to read this manual carefully and follow these instructions in order to keep it looking, operating and sounding its best.



BREAKING THE SOUND BARRIER

2790 Brighton Road, Oakville, Ontario, Canada L6H 5T4 Telephone: (905) 829-3838 Facsimile: (905) 829-3033  
Sonic Frontiers can be reached from 9:00 a.m. to 6:00 p.m., Eastern Standard Time (E.S.T.), or 24 hours a day by facsimile.