

**Pioneer** *sound.vision.soul*

**DJ MIXER**

**DJM-707**

Operating Instructions

Thank you for buying this Pioneer product. Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.

In some countries or regions, the shape of the power plug and power outlet may sometimes differ from that shown in the explanatory drawings. However the method of connecting and operating the unit is the same.

K015 En

**CAUTION:**

This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances such as radios and televisions, use shielded cables and connectors for connections.

H012 En

**IMPORTANT**



The lightning flash with arrowhead symbol, within an equilateral triangle, 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.



**CAUTION:**  
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**NOTE: THE NO USER-SERVICEABLE PARTS COMPARTMENT WARNING IS LOCATED ON THE APPLIANCE BOTTOM.**

**IMPORTANT SAFETY INSTRUCTIONS**

H003 En

**READ INSTRUCTIONS** — All the safety and operating instructions should be read before the product is operated.

**RETAIN INSTRUCTIONS** — The safety and operating instructions should be retained for future reference.

**HEED WARNINGS** — All warnings on the product and in the operating instructions should be adhered to.

**FOLLOW INSTRUCTIONS** — All operating and use instructions should be followed.

**CLEANING** — Unplug this product from the wall outlet before cleaning. The product should be cleaned only with a polishing cloth or a soft dry cloth. Never clean with furniture wax, benzene, insecticides or other volatile liquids since they may corrode the cabinet.

**ATTACHMENTS** — Do not use attachments not recommended by the product manufacturer as they may cause hazards.

**WATER AND MOISTURE** — Do not use this product near water — for example, near a bathtub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.

**ACCESSORIES** — Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

**CART** — A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.



**VENTILATION** — Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

**POWER SOURCES** — This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.

**LOCATION** — The appliance should be installed in a stable location.

**NONUSE PERIODS** — The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

**GROUNDING OR POLARIZATION**

- If this product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other), it will fit into the outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- If this product is equipped with a three-wire grounding type plug, a plug having a third (grounding) pin, it will only fit into a grounding type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding type plug.

**POWER-CORD PROTECTION** — Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

**OUTDOOR ANTENNA GROUNDING** — If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure A.

**LIGHTNING** — For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

**POWER LINES** — An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

**OVERLOADING** — Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

**OBJECT AND LIQUID ENTRY** — Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

**SERVICING** — Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

**DAMAGE REQUIRING SERVICE** — Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain or water.
- If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- If the product has been dropped or damaged in any way.
- When the product exhibits a distinct change in performance — this indicates a need for service.

**REPLACEMENT PARTS** — When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

**SAFETY CHECK** — Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

**WALL OR CEILING MOUNTING** — The product should not be mounted to a wall or ceiling.

**HEAT** — The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

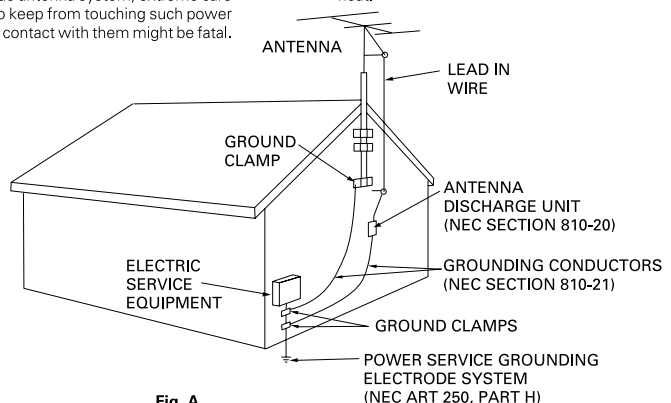


Fig. A

NEC — NATIONAL ELECTRICAL CODE

**WARNING:** THE APPARATUS IS NOT WATERPROOF, TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE AND DO NOT PUT ANY WATER SOURCE NEAR THIS APPARATUS, SUCH AS VASE, FLOWER POT, COSMETICS CONTAINER AND MEDICINE BOTTLE ETC.

H001AEn

**[For Canadian model]**

**CAUTION:** TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

**ATTENTION:** POUR PREVENIR LES CHOCS ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

H007A2L

**Information to User**

Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

H011 En

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

H010 En



*Dear Customer:*

Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. This manufacturer and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion-and, most importantly, without affecting your sensitive hearing.

Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

**To establish a safe level:**

- Start your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

**Once you have established a comfortable sound level:**

- Set the dial and leave it there.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.

**IMPORTANT NOTICE**

The serial number for this equipment is located on the bottom plate. Please write this serial number on your enclosed warranty card and keep it in a secure area. This is for your security.

**[For Canadian model]**

This Class B digital apparatus complies with Canadian ICES-003.

**[Pour le modèle Canadien]**

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

H009 2L

**WARNING:**

Handling the cord on this product or cords associated with accessories sold with the product will expose you to lead, a chemical known to the State of California and other governmental entities to cause cancer and birth defects or other reproductive harm.

**Wash hands after handling.**

**We Want You Listening For A Lifetime**

Used wisely, your new sound equipment will provide a lifetime of fun and enjoyment. Since hearing damage from loud noise is often undetectable until it is too late, this manufacturer and the Electronic Industries Association's Consumer Electronics Group recommend you avoid prolonged exposure to excessive noise. This list of sound levels is included for your protection.

**Decibel**

<u>Level</u>	<u>Example</u>
30	Quiet library, soft whispers
40	Living room, refrigerator, bedroom away from traffic
50	Light traffic, normal conversation, quiet office
60	Air conditioner at 20 feet, sewing machine
70	Vacuum cleaner, hair dryer, noisy restaurant
80	Average city traffic, garbage disposals, alarm clock at two feet.

**THE FOLLOWING NOISES CAN BE DANGEROUS UNDER CONSTANT EXPOSURE**

90	Subway, motorcycle, truck traffic, lawn mower
100	Garbage truck, chain saw, pneumatic drill
120	Rock band concert in front of speakers, thunderclap
140	Gunshot blast, jet plane
180	Rocket launching pad

Information courtesy of the Deafness Research Foundation.



S001 En

## CHECKING ACCESSORIES

- Hexagonal Allen driver  
(for cross fader operating load adjust screw)
- These operating instructions
- Warranty

## CAUTIONS REGARDING HANDLING

### Location

**Install the unit in a well-ventilated location where it will not be exposed to high temperatures or humidity.**

- Do not install the unit in a location which is exposed to direct rays of the sun, or near stoves or radiators. Excessive heat can adversely affect the cabinet and internal components. Installation of the unit in a damp or dusty environment may also result in a malfunction or accident. (Avoid installation near cookers etc., where the unit may be exposed to oily smoke, steam or heat.)
- When the unit is used inside a carrying case or DJ booth, separate it from the walls or other equipment to improve heat radiation.

### Condensation

When this unit is brought into a warm room from previously cold surroundings or when the room temperature rises sharply, condensation may form inside, and the unit may not be able to attain its full performance. In cases like this, allow the unit to stand for about an hour or raise the room temperature gradually.

### Cleaning the Unit

- Use a polishing cloth to wipe off dust and dirt.
- When the surfaces are very dirty, wipe with a soft cloth dipped in some neutral cleanser diluted five or six times with water and wrung out well, then wipe again with a dry cloth. Do not use furniture wax or cleaners.
- Never use thinners, benzene, insecticide sprays or other chemicals on or near this unit, since these will corrode the surfaces.

## FEATURES

### 1) Designed for high sound quality

Electronic parts have been carefully selected and internal circuitry redesigned to provide the shortest-possible signal paths, thus realizing true club sound with power to spare.

### 2) Ergonomic, user-customizable cross fader

- ① **Cross-fader "feeling" adjustment:** the specific physical sensation of cross fader operation is all-important to the DJ; the "feeling" adjustment provided in this mixer is an industry first, allowing the user to adjust the physical sensation of the slider to personal preferences, for the smoothest possible cross fader operation.
- ② **Independent cross fader lag cut:** the mechanical play (the lag distance before sound begins) at each end of the cross fader slider can be adjusted using the fader lag cut function, thus allowing adjustment of the sound cut when performing scratch play.
- ③ **Independent cross fader curve:** an industry first, the right-left independently adjustable (33 steps) cross fader curve control goes beyond the symmetrical type of cross fader curve on conventional mixers, thus broadening DJ performance capabilities.
- ④ **"Contactless fader" mechanism:** based on Pioneer's own proprietary technology, this new contactless optical fader assures durable and stable operation under the severest of DJ performance conditions.

### 3) Other features

- ① When connected via a control cord to a Pioneer DJ CD player (sold separately), operation of the fader can be used for automatic "fader start" play.
- ② "Fader reverse" function allows reversing of the directions of fader operation movement.
- ③ Delicate 33-step channel fader curve settings.
- ④ Can be connected in series to other mixers for "session" output of mixed sounds.

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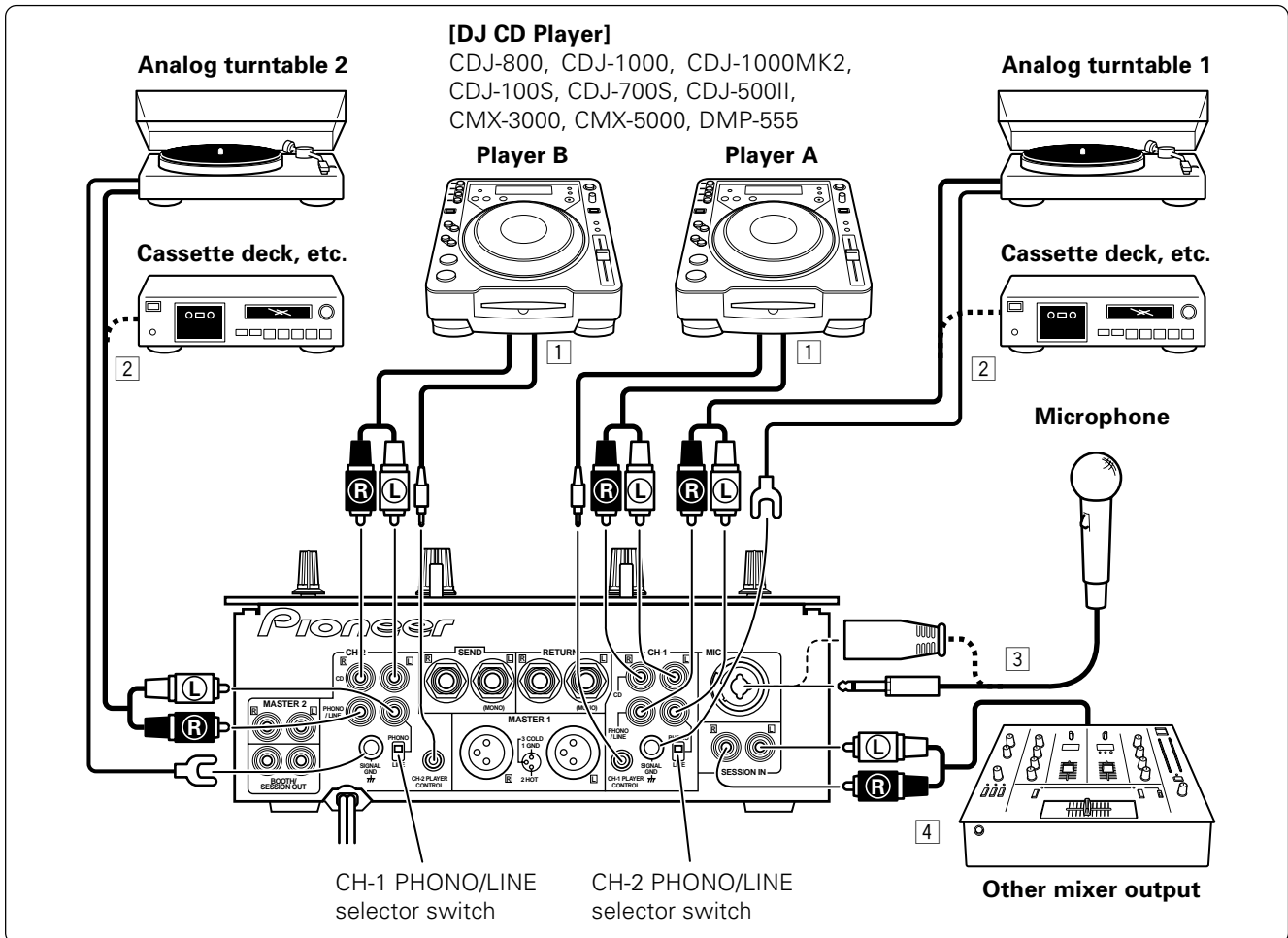
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# CONNECTIONS

When connecting or changing the connection of units, make sure to first turn off the power switch and disconnect the power cord from the outlet.

This mixer is not furnished with any connection cables; when performing connections, use the cables that came provided with your player and other components, or purchase commercially available audio cables.

## 1. Connecting Input Components



### DJ CD Players **1**

Connect the AUDIO OUT connectors from Player A to the CH-1 CD input jacks of the DJ mixer, and connect the AUDIO OUT connectors from Player B to the CH-2 CD input jacks. When using one of the listed DJ CD players, the control cord furnished with the CD player should be connected between the player and the DJ mixer. In this way, the DJ mixer's fader lever can be operated to control operation of the DJ CD player for fader start play and back cue.

### MIC **3**

The MIC jack on this unit supports use of either PHONE type or XLR type plugs.

### SESSION IN **4**

When using multiple mixers simultaneously, use the appropriate audio cables to connect the other mixer outputs to these jacks.

### Analog turntable / Cassette deck, etc. **2**

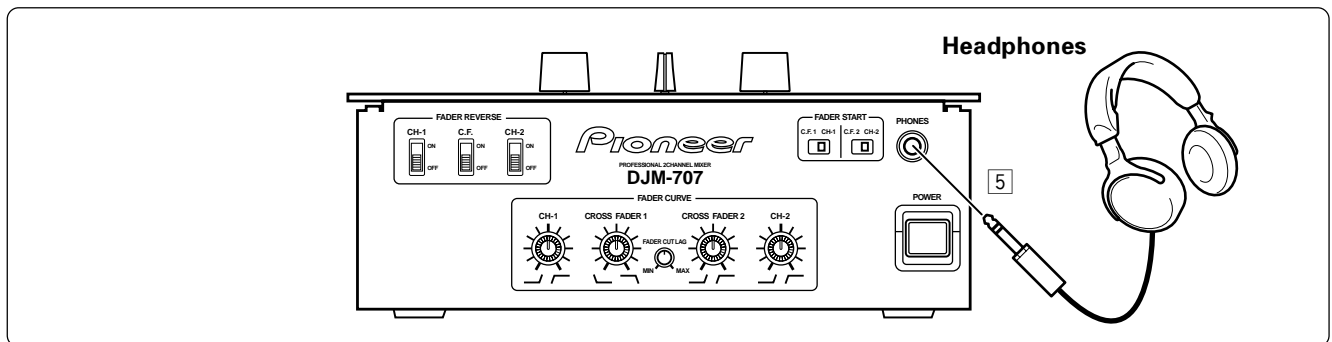
Connect the analog turntable 1 output cables to the CH-1 PHONO/LINE jacks of the DJ mixer, and connect the ground wire to the SIGNAL GND terminal. Set the CH-1 PHONO/LINE selector switch to [PHONO]. When connecting a cassette deck or other such component to these jacks, set the CH-1 PHONO/LINE selector switch to [LINE].

Connect the analog turntable 2 output cables to the CH-2 PHONO/LINE jacks of the DJ mixer, and connect the ground wire to the SIGNAL GND terminal. Set the CH-2 PHONO/LINE selector switch to [PHONO]. When connecting a cassette deck or other such component to these jacks, set the CH-2 PHONO/LINE selector switch to [LINE].

\* The PHONO input for this DJ mixer supports use of a MM cartridge.

## CONNECTIONS

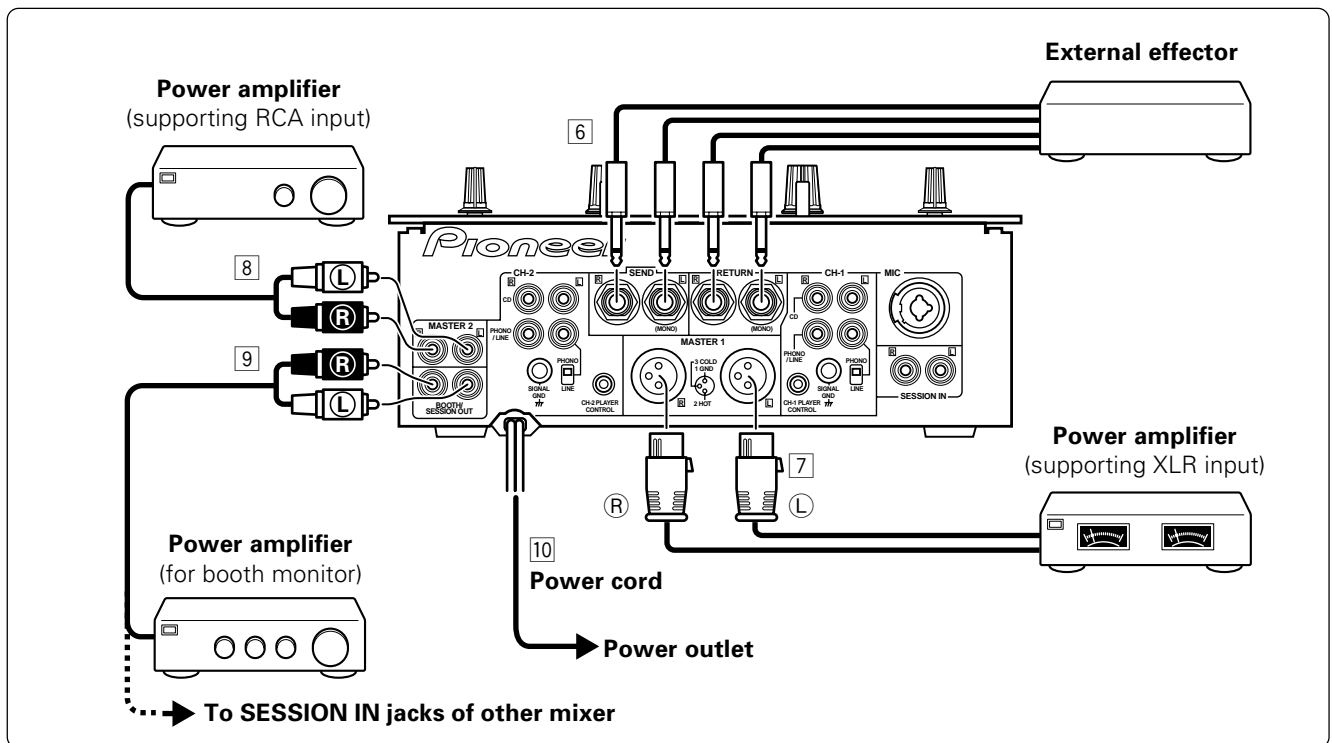
### 2. Connecting Headphones (front panel)



#### Headphones **5**

Use to connect headphones with a 6.3 mm diameter stereo plug.

### 3. Output Connections



#### External effector **6**

Use a 6.3 mm monaural plug to connect the external effector's input connectors to the DJ mixer's SEND jacks. When using an effector with a monaural input, connect it to the L channel output only. The signal actually sent to the effector will represent a mix of L and R signals.

Use a 6.3 mm monaural plug to connect the external effector's output connectors to the DJ mixer's RETURN jacks.

When using an effector with monaural output, connect only the L channel input. The signal received from the effector will be input to both L and R channels.

#### Master output

##### MASTER 1 **7**

XLR type balanced output.

6

<DRB1353>

##### MASTER 2 **8**

RCA type unbalanced output.

##### BOOTH/SESSION OUT **9**

These jacks are provided for both monitor output.

The sound volume here is controlled by the booth monitor level dial, regardless of the setting of the MASTER LEVEL dial.

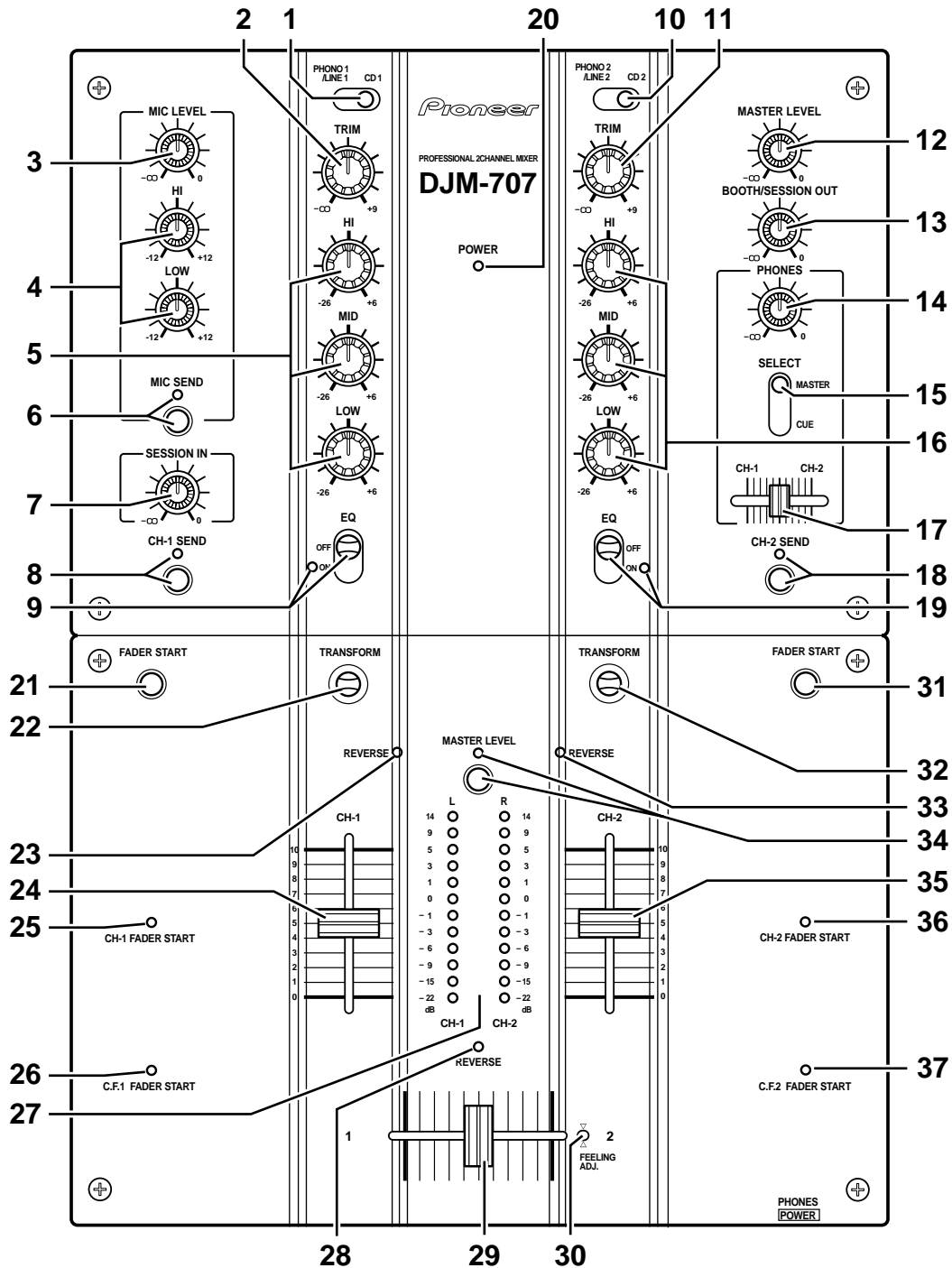
When using this unit in tandem with another mixer, connect these jacks to the other mixer's session input connectors.

##### Power cord **10**

After completing all other connections, connect the power plug to a standard power outlet or to the auxiliary power outlet of an amplifier.

# PART NAMES AND FUNCTIONS

## Top Panel



### 1 CH-1 input selector switch (PHONO 1/LINE 1 – CD 1)

Use to select input signal from CH-1 PHONO/LINE input jacks or CH-1 CD input jacks, and send them to the TRIM control.

### 2 CH-1 TRIM dial

Use to adjust the CH-1 input signal level (range of adjustment: +9 dB to  $-\infty$ ).

### 3 Microphone level dial (MIC LEVEL)

Use to adjust the microphone level (range of adjustment: 0 dB to  $-\infty$ ).

### 4 Microphone equalizer dials (HI/LOW)

**HI**  
Use to adjust microphone treble response (range of adjustment: 10 kHz,  $\pm 12$  dB).

#### LOW

Use to adjust microphone bass response (range of adjustment: 100 Hz,  $\pm 12$  dB).

## PART NAMES AND FUNCTIONS

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### 5 CH-1 equalizer dials (HI/MID/LOW)

#### HI

Use to adjust CH-1 input treble response (range of adjustment: 13 kHz, +6 dB to -26 dB).

#### MID

Use to adjust CH-1 input midrange response (range of adjustment: 1 kHz, +6 dB to -26 dB).

#### LOW

Use to adjust CH-1 input bass response (range of adjustment: 70 Hz, +6 dB to -26 dB).

### 6 MIC SEND button and indicator

When set to On, the indicator lights, and microphone signals are output at the SEND jacks.

### 7 Session input level dial (SESSION IN)

Use to adjust the session input volume (range of adjustment: 0 dB to  $-\infty$ ).

### 8 CH-1 SEND button and indicator

When set to On, the indicator lights, and CH-1 signals are output at the SEND jacks.

### 9 CH-1 EQ ON/OFF switch and indicator

When set to [ON], the indicator lights and CH-1 equalizer is enabled.

When set to [OFF], the indicator goes out and the equalizer circuit is bypassed.

### 10 CH-2 input selector switch (PHONO 2/LINE 2 – CD 2)

Use to select input signal from CH-2 PHONO/LINE input jacks or CH-2 CD input jacks, and send them to the TRIM control.

### 11 CH-2 TRIM dial

Use to adjust the CH-2 input signal level (range of adjustment: +9 dB to  $-\infty$ ).

### 12 MASTER LEVEL dial

User to adjust the master output volume level (range of adjustment: 0 dB to  $-\infty$ ).

### 13 Booth monitor level dial (BOOTH/SESSION OUT)

Use to adjust the volume level of signals at the BOOTH/SESSION OUT jacks (range of adjustment: +9 dB to  $-\infty$ ).

This level can be set independently of the setting of the MASTER LEVEL dial.

### 14 Headphones level dial (PHONES)

Use to adjust the volume level of the headphones output (range of adjustment: 0 dB to  $-\infty$ ).

### 15 Monitor SELECT switch

#### MASTER side

selects MASTER output. (This setting allows output regardless of the setting of the MASTER LEVEL dial.)

#### CUE side

selects the channel adjusted with the headphone mixing lever (17).

### 16 CH-2 equalizer dials (HI/MID/LOW)

#### HI

Use to adjust CH-2 input treble response (range of adjustment: 13 kHz, +6 dB to -26 dB).

#### MID

Use to adjust CH-2 input midrange response (range of adjustment: 1 kHz, +6 dB to -26 dB).

#### LOW

Use to adjust CH-2 input bass response (range of adjustment: 70 Hz, +6 dB to -26 dB).

### 17 Headphone mixing lever (CH-1 – CH-2)

This lever does not function when the monitor SELECT switch (15) is set to [MASTER].

When the monitor SELECT switch (15) is set to [CUE], moving the lever to the left side produces CH-1 monitor output, while moving it to the right produces CH-2 monitor output. Centering the lever at the center detent position produces balanced output of CH-1 and CH-2 signals.

### 18 CH-2 SEND button and indicator

When set to On, the indicator lights, and CH-2 signals are output at the SEND jacks.

### 19 CH-2 EQ ON/OFF switch and indicator

When set to [ON], the indicator lights and the CH-2 equalizer is enabled.

When set to [OFF], the indicator goes out and the equalizer circuit is bypassed.

### 20 POWER indicator

Lights when power is turned On.

### 21 CH-1 FADER START button

When this button is set to On, fader start and back cue can be performed on the CH-1 CD player.

Whether the operation is initiated by operation of the CH-1 fader lever, or by the cross fader lever is determined by the position of the front panel's FADER START selector switch; the selection is indicated by the lighting of the top panel's CH-1 FADER START indicator or C.F.1 FADER START indicator.

\* For DJ CD players supporting the fader start/back cue function, see page 5, "1. Connecting Input Components".

### 22 CH-1 output On/Off lever (TRANSFORM)

Use to set CH-1 output to On or Off (Mute).

The lever's setting angle can be changed in 45° increments (changing of the angle should be performed by an authorized Pioneer service technician).

### 23 CH-1 REVERSE indicator

When lighted, indicates that the front panel's FADER REVERSE switch has been set so that the CH-1 fader lever operates in the reverse direction (see front panel item 38).



**24 CH-1 fader lever**

The CH-1 fader lever is used to control the level of signals sent to the cross fader. Signal level is maximum at scale mark "10," and minimum at scale mark "0".

When the front panel CH-1 FADER REVERSE switch is set to [ON], the signal level is maximum at scale mark "0," and minimum at scale mark "10".

\* The channel fader curve can be adjusted by means of the front panel FADER CURVE dials.

**25 CH-1 FADER START indicator**

Lights when the CH-1 fader start/back cue function is enabled (see also top panel item 21 and front panel item 39).

**26 C.F.1 FADER START indicator**

Lights when CH-1 cross-fader start/back cue function is enabled (see also top panel item 21 and front panel item 39).

**27 Level meters**

Displays CH-1 and CH-2 peak levels or master output (stereo) peak levels (see also item 34).

**28 Cross fader REVERSE indicator**

Indicates that the front panel's FADER REVERSE switch has been set so that the cross fader now operates in reverse (left side is CH-2, right side is CH-1) (see also front panel item 38).

**29 Cross fader lever**

When the lever is moved to the left side, CH-1 is at maximum output and CH-2 is at minimum. When moved to the right side, CH-2 is at maximum output and CH-1 is at minimum.

\* The cross fader curve can be adjusted individually for CH-1 and CH-2 by means of the front panel FADER CURVE dials.

**30 Operating load adjust screw (FEELING ADJ.)**

The hexagonal Allen screw located next to the panel's slider opening can be rotated with a hexagonal Allen driver to adjust the sliding resistance of the cross fader lever. (See page 12, "Operating load adjust screw".)

**31 CH-2 FADER START button**

When this button is set to On, fader start and back cue can be performed on the CH-2 CD player.

Whether the operation is initiated by operation of the CH-2 fader lever, or by the cross fader lever is determined by the position of the front panel's FADER START selector switch; the selection is indicated by the lighting of the top panel's CH-2 FADER START indicator or C.F.2 FADER START indicator.

\* For DJ CD players supporting the fader start/back cue function, see page 5, "1. Connecting Input Components".

**32 CH-2 output On/Off lever (TRANSFORM)**

Use to set CH-2 output to On or Off (Mute).

This lever's setting angle can be changed in 45° increments (changing of the angle should be performed by an authorized Pioneer service technician).

**33 CH-2 REVERSE indicator**

When lighted, indicates that the front panel's FADER REVERSE switch has been set so that the CH-2 fader lever operates in the reverse direction (see front panel item 38).

**34 MASTER LEVEL display button and indicator**

When depressed to the On position, the indicator lights and the level meters display the master output (stereo) peak levels. When turned Off, the level meters display the peak levels for CH-1 (left) and CH-2 (right) (see also item 27).

**35 CH-2 fader lever**

The CH-2 fader lever is used to control the level of signals sent to the cross fader. Signal level is maximum at scale mark "10," and minimum at scale mark "0".

When the front panel CH-2 FADER REVERSE switch is set to [ON], the signal level is maximum at scale mark "0," and minimum at scale mark "10".

\* The channel fader curve can be adjusted by means of the front panel FADER CURVE dials.

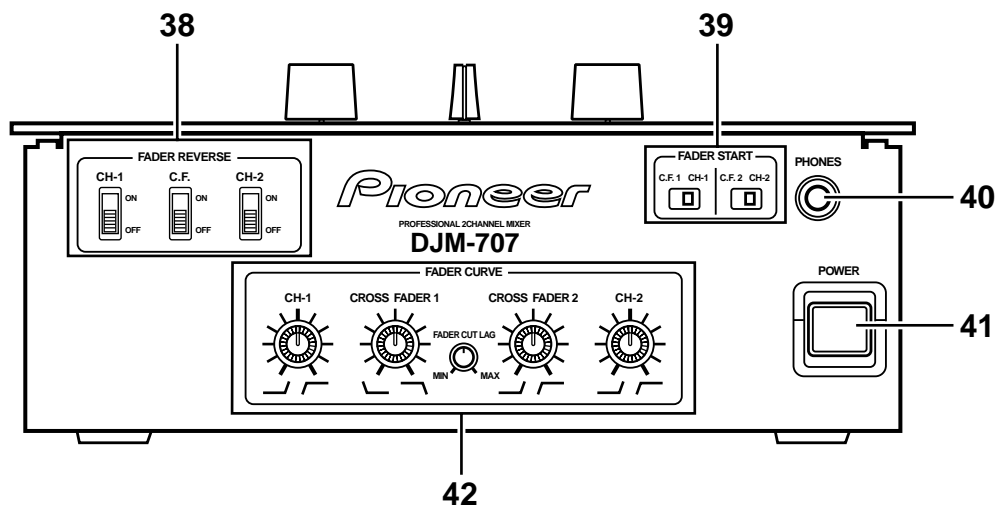
**36 CH-2 FADER START indicator**

Lights when the CH-2 fader start/back cue function is enabled (see also top panel item 31 and front panel item 39).

**37 C.F.2 FADER START indicator**

Lights when CH-2 cross-fader start/back cue function is enabled (see also top panel item 31 and front panel item 39).

Front Panel



**38 FADER REVERSE switches**

**CH-1 ON/OFF**

When set to [ON], the top panel's CH-1 REVERSE indicator lights, and the CH-1 fader lever operates in the reverse direction (scale mark "0" becomes 0 dB attenuation, and "10" becomes minus infinity). The fader start function also operates in reverse.

**CH-2 ON/OFF**

When set to [ON], the top panel's CH-2 REVERSE indicator lights, and the CH-2 fader lever operates in the reverse direction (scale mark "0" becomes 0 dB attenuation, and "10" becomes minus infinity). The fader start function also operates in reverse.

**C.F. ON/OFF**

When set to [ON], the top panel's cross fader REVERSE indicator lights, and the cross fader lever operates in the reverse direction (left side becomes CH-2, and right side becomes CH-1). The fader start function also operates in reverse.

**39 FADER START selector switches**

**C.F.1 / CH-1**

This switch determines whether the fader start operation for the CD player connected to CH-1 is activated by the cross fader lever, or by the CH-1 fader lever.

When the top panel's CH-1 FADER START button is set to On, selecting [C.F.1] causes the top panel's C.F.1 FADER START indicator to light, and selecting [CH-1] causes the top panel's CH-1 FADER START indicator to light.

**C.F.2 / CH-2**

This switch determines whether the fader start operation for the CD player connected to CH-2 is activated by the cross fader lever, or by the CH-2 fader lever.

When the top panel's CH-2 FADER START button is set to On, selecting [C.F.2] causes the top panel's C.F.2 FADER START indicator to light, and selecting [CH-2] causes the top panel's CH-2 FADER START indicator to light.

**40 Headphone output jack (PHONES)**

Accepts a 6.3 mm stereo headphones plug.

**41 POWER switch**

**42 Fader attenuation dials (FADER CURVE)**

**CH-1**

Use to adjust CH-1's fader attenuation curve.

**CH-2**

Use to adjust CH-2's fader attenuation curve.

**CROSS FADER 1**

Use to adjust cross fader's CH-1 attenuation curve.

**CROSS FADER 2**

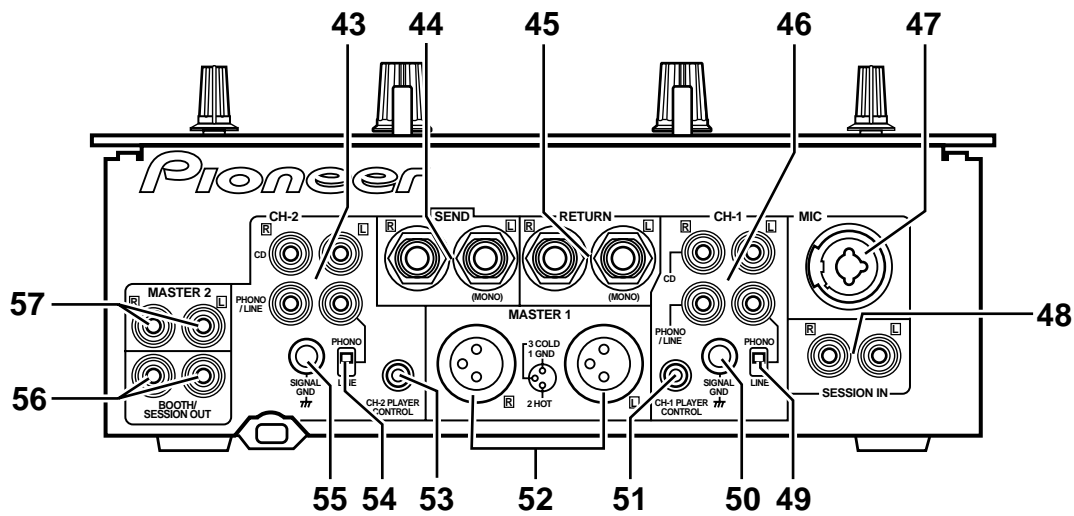
Use to adjust cross fader's CH-2 attenuation curve.

**FADER CUT LAG**

Use to adjust mechanical play at both extremes of the cross fader movement (the range in which lever movement produces no effect).

(See page 12, "Fader attenuation curve adjustment".)

## Rear Panel

**43 CH-2 input jacks**  
**CD**

Connect to audio output from CH-2 CD player.

**PHONO / LINE**

Connect to audio output from CH-2 analog turntable, cassette deck or other line signal level component.

**44 External effector output jacks (SEND)**

Connect to the input connectors of an external effector. When the top panel switches (MIC SEND, CH-1 SEND, and CH-2 SEND) are set to On, these jacks output the MIC, CH-1, and CH-2 signals to the external effector.

When using an effector with a monaural input, connect it to the L channel output only. The signal actually sent to the effector will represent a mix of L and R signals.

**45 External effector return jacks (RETURN)**

Connect to the output connectors of the external effector. When using an effector with monaural output, connect only to the L channel input. The signal received from the effector will be input to both L and R channels.

**46 CH-1 input jacks****CD**

Connect to the audio output of the CH-1 CD player.

**PHONO / LINE**

Connect to audio output from CH-1 analog turntable, cassette deck or other line signal level component.

**47 Microphone input jack (MIC)**

Connect to a microphone with XLR type or PHONE type plug.

**48 Session input jacks (SESSION IN)**

When using multiple mixers simultaneously, connect the other mixer outputs to these jacks.

**49 CH-1 PHONO/LINE selector switch**

Use to set the input sensitivity at the CH-1 PHONO/LINE connectors. The [PHONO] position supports an MM type cartridge.

\* When no analog turntable is used, set this switch to the [LINE] side.

**50 CH-1 signal ground (SIGNAL GND)**

Connect to the CH-1 analog turntable's ground wire. Note that this is not meant as a safety ground.

**51 CH-1 PLAYER CONTROL jack**

When a Pioneer DJ CD player is connected to the CH-1 CD jacks, a special control cord can be used to connect this jack to the player's control jack, thus enabling the fader start function.

**52 MASTER 1 jacks**

XLR type balanced output. Connect to the power amplifier's balanced input jacks.

**53 CH-2 PLAYER CONTROL jack**

When a Pioneer DJ CD player is connected to the CH-2 CD jacks, a special control cord used to connect this jack to the player's control jack, thus enabling the fader start function.

**54 CH-2 PHONO/LINE selector switch**

Use to set the input sensitivity at the CH-2 PHONO/LINE connectors. The [PHONO] position supports an MM type cartridge.

\* When no analog turntable is used, set this switch to the [LINE] side.

**55 CH-2 signal ground (SIGNAL GND)**

Connect to the CH-2 analog turntable's ground wire. Note that this is not meant as a safety ground.

**56 BOOTH/SESSION OUT jacks**

Connector jacks for booth monitor output. When using this unit in tandem with another mixer, connect these jacks to the other mixer's session input jacks.

**57 MASTER 2 jacks**

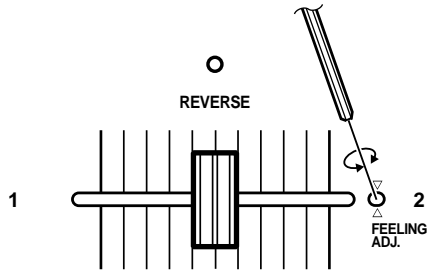
RCA type unbalanced output. Connect to the power amplifier's unbalanced input jacks.

# FADER OPERATIONS

## Adjusting Fader Lever Operating Sensation

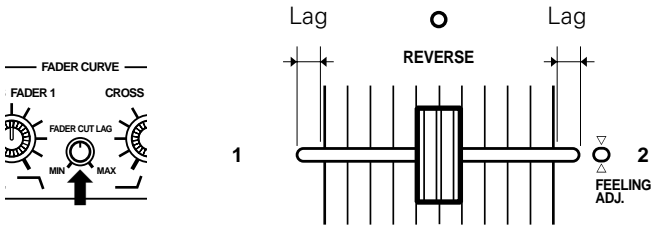
### Operating load adjust screw (FEELING ADJ.)

The supplied hexagonal Allen driver can be used to adjust the hexagonal Allen screw located next to the top panel's cross fader slider opening, thus modifying the sliding resistance of the lever. Rotate the screw clockwise to increase sliding resistance and counterclockwise to reduce resistance.



### Cross fader lag adjustment

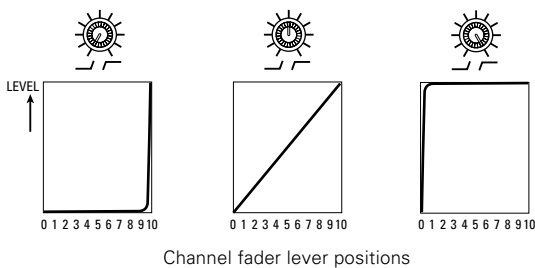
The mechanical play (the lag or range of movement in which no functional effect takes place) at the two extreme ends of the top panel cross fader lever movement can be adjusted by using the front panel's FADER CUT LAG dial, within a range of 1-6 mm.



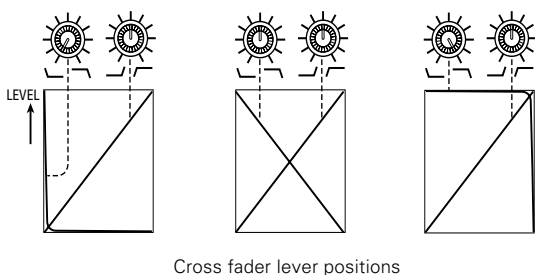
### Fader attenuation curve adjustment

The front panel's FADER CURVE dials can be used to adjust the attenuation curve response of the cross fader and channel fader. The cross fader can be adjusted independently for CH-1 and CH-2 sides.

#### ■ Channel fader curve adjustment (CH-1, CH-2)



#### ■ Cross fader curve adjustment (CROSS FADER 1, 2)

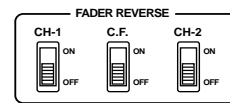


## Fader reverse function

The operating directions of the CH-1, CH-2 and cross fader levers can be reversed by setting the front panel's FADER REVERSE switches to their [ON] positions.

When the CH-1 (or CH-2) FADER REVERSE switch is set to [ON], the top panel CH-1 (or CH-2) REVERSE indicator lights, and the corresponding lever's operating direction is reversed (scale mark "0" becomes attenuation 0 dB, while scale mark "10" becomes minus infinity). The fader start function also operates in reverse.

When the C.F. FADER REVERSE switch is set to [ON], the top panel's cross fader REVERSE indicator lights, and the lever operating direction is reversed (left side becomes CH-2 and right side becomes CH-1). The fader start function also operates in reverse.



## Fader Start Function

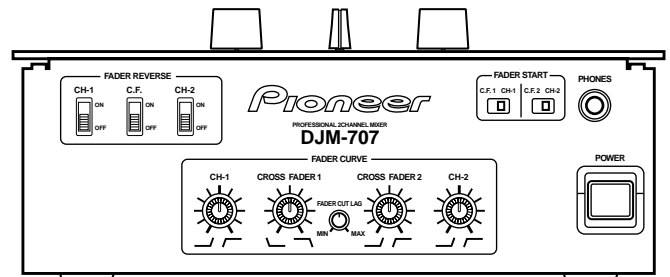
When the CH-1 and CH-2 jacks of this unit are connected to a separately sold Pioneer DJ CD player (models CDJ-1000, CDJ-1000MK2, CDJ-800, CDJ-100S, CDJ-700S, CDJ-500II, CMX-3000, CMX-5000 or DMP-555), the channel fader and cross fader functions can be used to automatically start playback of the connected CD player (the applicable control cord must be connected). By moving the mixer's channel fader or cross fader lever, the CD player's pause function is released and play starts instantly. Also, by returning the fader lever to its original position, the CD player can be returned to its cue point (back cue function), thus allowing sampling playback.

### Cross fader start play and back cue play

When the CH-1 CD player is held in standby at the cue point, merely moving the cross fader lever from the right (CH-2) side to the left (CH-1) side will cause the CH-1 CD player to begin playback.

When the cross fader lever reaches the left (CH-1) side, CH-2 CD player performs back cue (returns to its cue point).

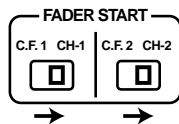
Likewise, when the CH-2 CD player is in standby at its cue point, moving the cross fader lever from the left (CH-1) side to the right (CH-2) side causes CH-2 CD player to begin playback. When the cross fader lever reaches the right (CH-2) side, CH-1 CD player performs back cue.



**Start playback with channel fader**

- 1 To control a connected CD player, set the front panel FADER START selector switch for the corresponding channel to its [CH-1] or [CH-2] position.

When using the CH-1 fader lever to start the CH-1 CD player, set the front panel C.F.1/CH-1 switch to the [CH-1] position; when using the CH-2 fader lever to start the CH-2 CD player, set the front panel C.F.2/CH-2 switch to [CH-2] position.

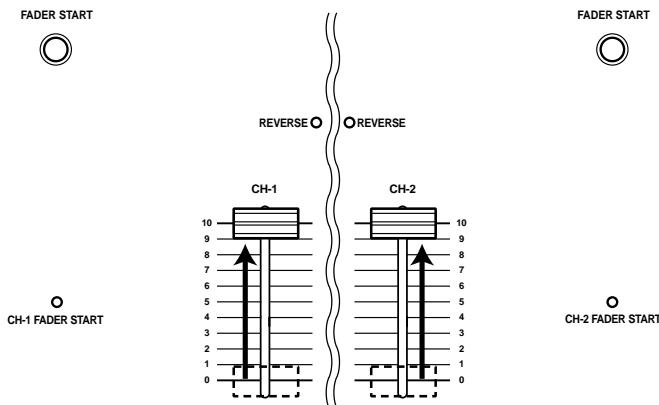


- 2 Press the top panel FADER START button so that the indicator lights.

When the CH-1 FADER START button is pressed, the CH-1 FADER START indicator lights.

When the CH-2 FADER START button is pressed, the CH-2 FADER START indicator lights.

- 3 Set the channel fader lever to the [0] scale mark.
- 4 Adjust the CD player to its cue point and set for cue point standby.
- 5 Begin moving the channel fader lever with the timing you wish, thereby beginning playback on the CD player.

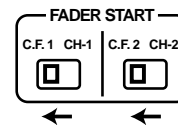


- If the cue point has already been set, there is no need to set the CD player again for standby at the cue point.
- After playback has once begun, moving the channel fader lever back to the "0" scale mark will cause the CD player to return to its cue point and enter the standby mode again (back cue).

**Start playback with cross fader**

- 1 To control a connected CD player, set the front panel FADER START selector switch for the corresponding channel to its [C.F.1] or [C.F.2] position.

When using cross fader lever to start the CH-1 CD player, set the front panel C.F.1/CH-1 switch to the [C.F.1] position; when using the cross fader lever to start the CH-2 CD player, set the front panel C.F.2/CH-2 switch to [C.F.2] position.

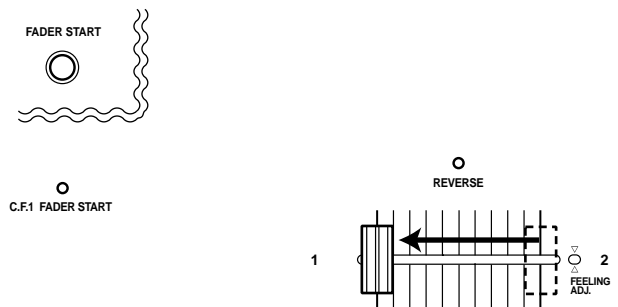


- 2 Press the top panel FADER START button so that the indicator lights.

When the CH-1 FADER START button is pressed, the C.F.1 FADER START indicator lights.

When the CH-2 FADER START button is pressed, the C.F.2 FADER START indicator lights.

- 3 Move the cross fader lever to the side opposite from the channel you wish to start.
- 4 Adjust the CD player to its cue point and set for cue point standby.
- 5 Begin moving the cross fader lever with the timing you wish, thereby beginning playback on the CD player.



- If the cue point has already been set, there is no need to set the CD player again for standby at the cue point.
- If the cross fader lever is moved fully after the beginning of playback, the opposite channel's CD player will return to its cue point and enter standby there (back cue).

# TROUBLESHOOTING

Incorrect operations are often mistaken for trouble and malfunctions. If you think there is something wrong with this component, check the points below. Sometimes the trouble may originate from another component. Thus, also check the other electrical appliances also in use.

If the trouble cannot be rectified even after checking the following items, contact your dealer or nearest PIONEER service center.

<b>Problem</b>	<b>Possible Cause</b>	<b>Countermeasure</b>
The power does not turn on.	<ul style="list-style-type: none"> <li>● The power cord has not been connected.</li> </ul>	<ul style="list-style-type: none"> <li>● Connect the cord to a power outlet.</li> </ul>
There is little or no sound.	<ul style="list-style-type: none"> <li>● The Input selector switch is in the wrong position.</li> <li>● The rear panel's PHONO/LINE selector switch is set to [LINE] when a analog turntable is connected to the input connectors.</li> <li>● The connection cable hasn't been connected properly or has been disconnected.</li> <li>● The terminal or plug is dirty.</li> <li>● The TRANSFORM lever is tripped.</li> </ul>	<ul style="list-style-type: none"> <li>● Set the Input selector switch to the device currently playing.</li> <li>● Set the PHONO/LINE selector switch to [PHONO].</li> <li>● Connect it properly.</li> <li>● Clean and reconnect.</li> <li>● Return the TRANSFORM lever to its upright position.</li> </ul>
Sound is distorted.	<ul style="list-style-type: none"> <li>● Master output level is too high.</li> <li>● Input level is too high.</li> <li>● The rear panel's PHONO/LINE selector switch is set to [PHONO] when a cassette deck or other line component is connected to the input connectors.</li> </ul>	<ul style="list-style-type: none"> <li>● Adjust MASTER LEVEL dial.</li> <li>● Adjust the TRIM dial so that the input level approaches 0 dB on the peak level meter.</li> <li>● Set the PHONO/LINE selector switch to [LINE].</li> </ul>
CD player's fader won't start.	<ul style="list-style-type: none"> <li>● The top panel's FADER START button is set to Off.</li> <li>● The rear panel's PLAYER CONTROL jack hasn't been connected.</li> </ul>	<ul style="list-style-type: none"> <li>● Set the top panel's FADER START button to On.</li> <li>● Use the control cord to connect the unit and CD player.</li> </ul>
External effector don't work.	<ul style="list-style-type: none"> <li>● The top panel's SEND buttons (MIC SEND, CH-1 SEND, CH-2 SEND) are set to Off.</li> <li>● An external effector's output coupler is not connected to the RETURN jacks.</li> </ul>	<ul style="list-style-type: none"> <li>● Turn on the top panel's SEND button corresponding to the channel you wish to apply external effects to (indicator will light).</li> <li>● Connect an external effector's output coupler to the RETURN jacks.</li> </ul>
External effector's sound distorted.	<ul style="list-style-type: none"> <li>● The input level from the external effector is too high.</li> </ul>	<ul style="list-style-type: none"> <li>● Lower the external effector's output level.</li> </ul>

Static electricity or other external interference may cause the unit to malfunction. To restore normal operation, turn the power off and then on again.

# SPECIFICATIONS

## Audio Section

### Input terminal (input level/impedance)

CD 1, 2	-14 dBV (200 mV) / 22 k $\Omega$
LINE 1, 2	-14 dBV (200 mV) / 22 k $\Omega$
PHONO 1, 2	-54 dBV (2 mV) / 47 k $\Omega$
MIC	-54 dBV (2 mV) / 3 k $\Omega$
SESSION IN	-14 dBV (200 mV) / 22 k $\Omega$
RETURN	-14 dBV (200 mV) / 22 k $\Omega$

### Output terminal (output level/impedance)

MASTER OUT 1 (XLR)	0 dBV (1 V) / 600 $\Omega$
MASTER OUT 2 (RCA)	0 dBV (1 V) / 1 k $\Omega$
BOOTH / SESSION OUT	0 dBV (1 V) / 1 k $\Omega$
SEND	-14 dBV (200 mV) / 1 k $\Omega$
PHONES	6 dBV (2 V) / 22 $\Omega$ or less (Rated load impedance 32 $\Omega$ )

### Frequency characteristics

CD, LINE, MIC	20 Hz to 20 kHz
PHONO (RIAA)	20 Hz to 20 kHz

### SN ratio

CD, LINE	93 dB or more
PHONO	78 dB or more
MIC	64 dB or more

### Total harmonic distortion rate

CD, LINE	0.02% or less
----------	---------------

Cross talk (1 kHz) ..... 77 dB or more

### Channel equalizer (CD, LINE/PHONO)

HI	+6 dB to -26 dB
MID	+6 dB to -26 dB
LOW	+6 dB to -26 dB

### Microphone equalizer (MIC)

HI	+12 dB to -12 dB
LOW	+12 dB to -12 dB

## Electrical Section, etc.

Power supply voltage	AC 120 V, 60 Hz
Power consumption	23 W
Operating temperature	+5 °C to +35 °C (41 °F to 95 °F)
Operating humidity	5% to 85%
External dimensions	251 (W) x 381.6 (D) x 107.9 (H) mm 9-7/8 (W) x 15 (D) x 4-1/4 (H) in
Weight	6.3 kg 13 lbs 14 oz

## Accessories

- Hexagonal Allen driver ..... 1
- These operating instructions ..... 1
- Warranty ..... 1

For improvement purposes, specifications and design may be subject to modification without notice.

Should this product require service in the U.S.A. and you wish to locate the nearest Pioneer Authorized Independent Service Company, or if you wish to purchase replacement parts, operating instructions, service manuals, or accessories, please call the number shown below.

**800 - 782 - 7210**

Please do not ship your product to Pioneer without first calling the Customer Support Division at the above listed number for assistance.

**PIONEER ELECTRONICS (USA), INC.  
CUSTOMER SUPPORT DIVISION  
P.O. BOX 1760, LONG BEACH,  
CA 90801-1760, U.S.A.**

For warranty information please see the Limited Warranty sheet included with your product.

Should this product require service in Canada, please contact a Pioneer Canadian Authorized Dealer to locate the nearest Pioneer Authorized Service Company in Canada.

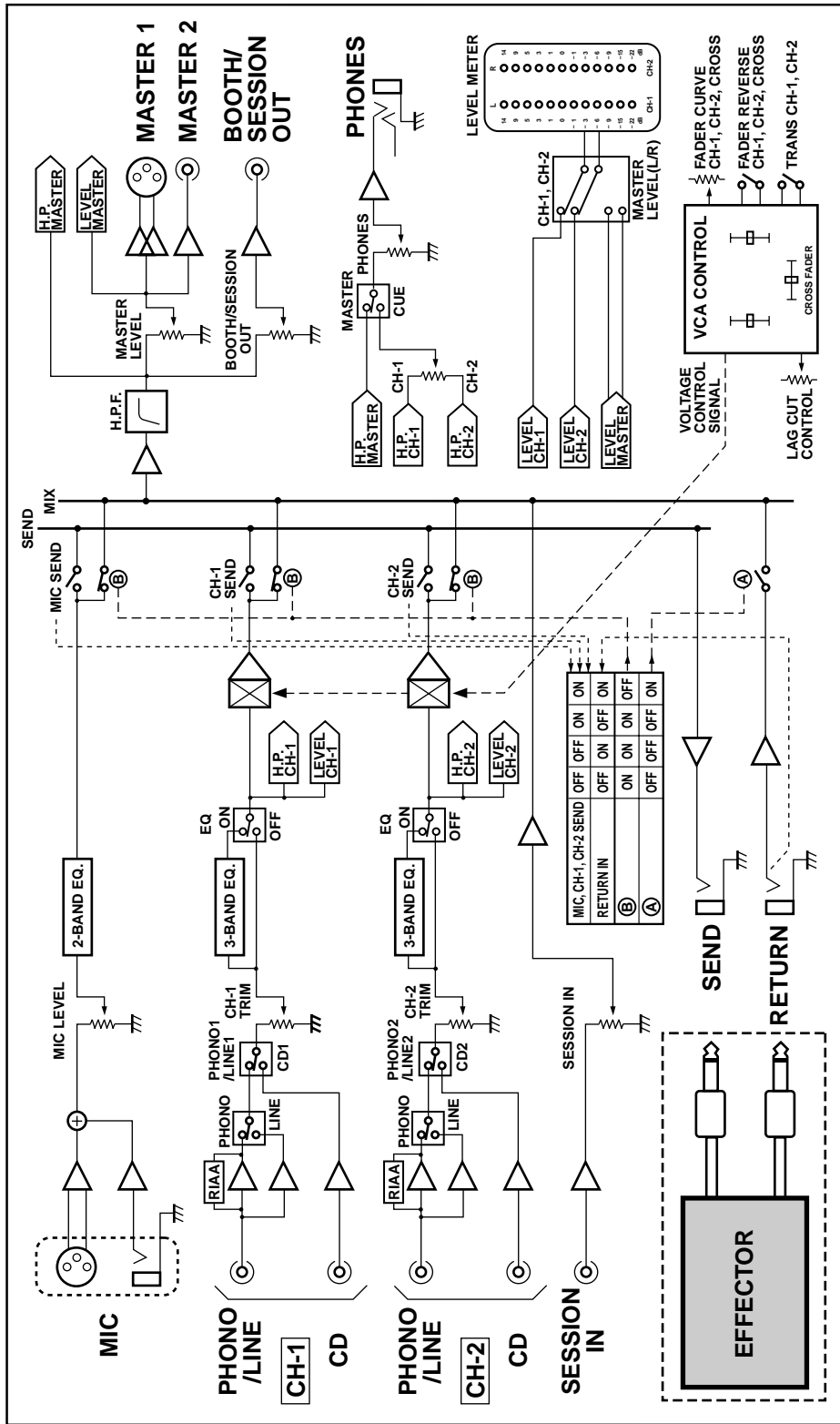
Alternatively, please contact the Customer Service Department at the following address:

**Pioneer Electronics of Canada, Inc.**

**300 Allstate Parkway  
Markham, ON L3R 0P2  
(905) 479-4411  
1 (877) 283-5901**

For warranty information please see the Limited Warranty sheet included with your product.

**BLOCK DIAGRAM**



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