MT-300S
MUSIC PLAYER

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GENERAL VIEW 概観図

PANEL LAYOUT PARTS LIST/パネル配置図パーツリスト

<table>
<thead>
<tr>
<th>No.</th>
<th>Part Number</th>
<th>Part Name</th>
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<tbody>
<tr>
<td>1</td>
<td>00894001</td>
<td>JACK YKB21-5142</td>
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<tr>
<td>2</td>
<td>22495576</td>
<td>A S-BUTTON LX BLK</td>
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<tr>
<td>3</td>
<td>01561423</td>
<td>RUBBER SW B</td>
</tr>
<tr>
<td>4</td>
<td>0156478</td>
<td>LENS D</td>
</tr>
<tr>
<td>5</td>
<td>01121689</td>
<td>LED (Green &amp; Red) SPR-325MVWT31</td>
</tr>
<tr>
<td>6</td>
<td>71013990</td>
<td>LCD UNIT</td>
</tr>
<tr>
<td>7</td>
<td>01344789</td>
<td>DISPLAY COVER</td>
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<td>8</td>
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<td>RUBBER SW A</td>
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<td>0134936</td>
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<td>10</td>
<td>0134934</td>
<td>POT DUST COVER</td>
</tr>
<tr>
<td>11</td>
<td>22495528</td>
<td>IS-KNOB 5 DWG/LCD</td>
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<td>12</td>
<td>00671556</td>
<td>SLIDE POT. EWANNKX10B14</td>
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<td>13</td>
<td>01561445</td>
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<td>14</td>
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## SPECIFICATIONS

### MT300s : Music Player

- **<Source Sound>** Conforms to GM/GS
- **Max.Polyphony** 64 voices
- **Tones** 360 variations (incl.5 drum sets) SFX set
- **Master Tuning** 415.3 Hz — 460.0 Hz (0.1 Hz Step)
- **Transpose** Playback, Transpose (24 + 24 Half-steps)
- **Effects** Reverb (4 types), Chorus (4 types)

### Composer

- **Model Name** Base: MT-300s, MT-300s, MT-300s
- **Dimensions** Approx. 30,000 notes
- **Tempo** Quarter note = 20-250
- **Resolution** 120 ticks per quarter note
- **Recording Method** Realtime (Replace, Mix, Auto-Punch), Manual Punch-In, Loop, Tempo, Rear-Map
- **Edit** Copy, Quantize, Insert, Erase, Transpose, Part Exchange, Note Edit, PC Edit
- **RhythmPattern** 50 types
- **Control** Song Select, Reset, Stop, Play, Rec, End, Play, All Song Play, Track Select, ComIn, Marker Set, Repeat Tempo

### Disk Drive / Disk Storage

- **Disk Format** 3.5 inch Micro Floppy Disk
- **Disk Format** 320KB sectors/2D, 1.44MB sectors/2D
- **Songs** max. 99 songs
- **Note Storage** approx. 120 MB (max. 256 notes/2D)
- **Playable Software** Standard MIDI File (Format0/1)
- **Save** Roland Original Format (Format)

### Main Features

- **Spoken Language** Roland Original Format (i-Format)
- **Save** Roland Original Format (Format)
- **Sorter**
- **Display** Reverb, Reverb level, Touch/No Touch (3 types)
- **Connectors** Input jacks (RCA, B.C.A. jacks, MIDI jacks/RE-1, MIDI OUT connectors, MIDI IN, MIDI OUT, MIDI IN/OUT, MIDI IN/OUT, MIDI IN, MIDI OUT)
- **Power supply** AC170V/AC230V/AC240V
- **Power Consumption** 34W (170V) / 34W (230V) / 34W (240V)
- **Dimensions** 394mm x 223mm x 205mm
- **Weights** 4.2 kg / 9.5 lbs
- **Accessories** Owner’s manual English (7120834)
- **Rated Power Output** 3W x 2
- **Speakers** 3W x 2
- **Display** Beat: 2/2, 0/4, 2/4, 3/4, 4/4, 5/4, 6/4, 7/4, 3/8, 6/8, 9/8, 12/8
- **Language** English/Chinese
- **Lyrics** Yes (Built-in Display, MIDI Out)
- **Control** Volume, Microphone Volume, Microphone Echo
- **Beat** 2/2, 0/4, 2/4, 3/4, 4/4, 5/4, 6/4, 7/4, 3/8, 6/8, 9/8, 12/8
- **Volume** 10 levels
- **Tempo** 1 song
- **Song** 1 song
- **Note Storage** Approx. 30,000 notes
- **Tempo** Quarter note = 20-250
- **Resolution** 120 ticks per quarter note
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- **Edit** Copy, Quantize, Insert, Erase, Transpose, Part Exchange, Note Edit, PC Edit
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- **Control** Song Select, Reset, Stop, Play, Rec, End, Play, All Song Play, Track Select, ComIn, Marker Set, Repeat Tempo, Tempo

### Others

- **Owner’s manual English (7120834)
- **Rated Power Output** 3W x 2
- **Speakers** 3W x 2
- **Display** Beat: 2/2, 0/4, 2/4, 3/4, 4/4, 5/4, 6/4, 7/4, 3/8, 6/8, 9/8, 12/8
- **Language** English/Chinese
- **Lyrics** Yes (Built-in Display, MIDI Out)
- **Control** Volume, Microphone Volume, Microphone Echo
- **Beat** 2/2, 0/4, 2/4, 3/4, 4/4, 5/4, 6/4, 7/4, 3/8, 6/8, 9/8, 12/8
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**EXPLDED VIEW/分解図**

<table>
<thead>
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<th>No.</th>
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<td>DISPLAY COVER</td>
</tr>
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<td>02</td>
<td>71013556</td>
<td>FRONT PANEL ASSY DOM (for Japan only)</td>
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<td>71128012</td>
<td>FRONT PANEL ASSY EXP (except for Japan)</td>
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<td>04</td>
<td>22485298</td>
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<td>05</td>
<td>22485303</td>
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<td>06</td>
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<td>ENCODER BOARD ASSY</td>
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<td>22015242</td>
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[Screw]

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<tr>
<td>02</td>
<td>40012478</td>
<td>Binding Taptite P 4x4 ZC</td>
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<tr>
<td>03</td>
<td>4001267</td>
<td>Binding Taptite P 3x6 ZC</td>
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<tr>
<td>04</td>
<td>40011353</td>
<td>Binding Taptite P 5x12 BZC</td>
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<td>05</td>
<td>40340067</td>
<td>Pan Cap Taptite B 3x4 BZC</td>
</tr>
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<td>40011067</td>
<td>Binding Taptite B 3x4 ZC</td>
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<td>40012878</td>
<td>Pan Machine Screw W/SW 4x4/8 M3x10 ZC</td>
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<td>08</td>
<td>40011532</td>
<td>Binding Taptite P 3x8 BZC</td>
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<tr>
<td>09</td>
<td>4001153</td>
<td>Pan Machine Screw W/SW 3x8 BZC</td>
</tr>
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**IMPORTANT**: After replacing wiring or shifting them for replacing purpose, restore original clamping and dressing.

**重要**: ワイヤリングを交換したり、位置を変えた場合には必ず元の状態に戻して下さい。
PARTS LIST/パーツリスト

CASING なべすけ △

# 71328112 FRONT PANEL ASSY (ENGLISH)
# 71011576 FRONT PANEL ASSY (JAPANESE)

NOTE: There are two types of FRONT PANEL ASSY, English version and Japanese version. When ordering this parts, please order specify parts.

注意: 前面パネルアッセイは、英語版と日本語版の2タイプあります。注文の際は、必ず注文内容を明記してください。

CHASSIS チャassis

# 913487 Chassis
# 22165134 COLLAR
# 22265242 DD INSECTOR・FDD Insulator
# 15189490 PHONES HOLDER
# 15189499 SPEAKER COVER
# 00996007 HANDLE HOLDER

KNOB, BUTTON なにま、ボタン

# 22455303 D R-KNOB L BLK 249-303 Encoder Knob
# 22455309 1 S KNOB S DW/2LCG Volume Knob
# 22495576 A S-BUTTON LX BLK Power Switch Button
# 15184922 RUBBER SW A
# 15184923 RUBBER SW B
# 15184924 RUBBER SW C

SWITCH スイッチ

# 01343245 SDKB.1-B2-B2-T2-T5-V Push Switch SW1 on PSB
# 01459495 SSF112-S06N6 Slide Switch SW2 on AB
# 00990923 SSF124-S06N6 Slide Switch SW1 on AB

JACK, SOCKET パソコン、ソケット

# 13482028 HL7091-01-3010 Expression JK5 on AB
# 13482025 HL7010-01-3010 Start/Stop JK7 on AB
# 13429911 TC7097-28-401 Computer JK3 on AB
# 13429252 YK21-2-506 Mic JK2 on AB
# 00894001 YK21-3-142 Phones JK4 on PB
# 00851445 YK21-3-340 Output JK1 on AB
# 13429267 YK5P1-3048 MIDI JK6 on AB

DISPLAY UNIT コーディネーター

# 71013990 LCD UNIT

DISK DRIVE UNIT ディスク・ドライブユニット

# 01341956 MF315F-3252MG FDD Unit

POWER SUPPLY UNIT (電源ユニット) Switching Regulator

SPEAKER スピーカー Full-Range Speaker

PW ASSY (パワーアッセイ) MAIN BOARD ASSY

PSB : POWER SWITCH BOARD ASSY
MB : MAIN BOARD ASSY
AMP : AMP BOARD ASSY
LB : LED BOARD ASSY
VB : VOLUME BOARD ASSY
PB : PHONES BOARD ASSY

Failure to completely fill the above items with correct number and description will result in delayed or even undelivered replacement.

Use only listed parts for replacement.}

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Use only listed parts for replacement.
### DIODE
- **1501926** ISS133 7-7 Switching Diode D1-10 on AMP
- **1538120F** SSXS20TE88B Diode Array D1-2 on AB
- **0121323** DA204U T06 Diode Array D1A-4 on MB, D1A-1.5 on AB
- **1539105** DAZ20K T146 Diode Array D1A-1.5 on PANEL
- **# 1546132** ED906-TPB4 Zener Diode D3-8 on AB
- **1539142** S6568G/TPB5 1A/400V Rectifier Diode D2 on AB

### LED
- **0060760** SLR-325MCT31 LED (GREEN) D9 on PANEL
- **00348490** SLR-325VCT31 LED (RED) D2-8 on PANEL
- **01121689** SPR-325MVWT31 LED (GREEN&RED) D11-15 on PANEL, D9 on LB

### RESISTOR
- **# 0145509** ERDS1VJ101T 1/2W R75 91 on AB
- **00126112** EXBV8V101JV R Array RA31 38-40 on MB
- **15409113** EXBV8V103JV R Array RA13-18 23 34 35 41 on MB
- **01013578** EXBV8V470JV R Array RA2 3 5 19 24-27 29 30 32 on MB
- **15399965** RCE9A103JAG7A R Array RA1 4 6 7 12 28 on MB
- **# 01450978** RF50S T52 0R1 OHM J Fuse Resistor R13 on AMP
- **01238389** SR50TR 680 J 1/2W R4 10 on AMP

### POTENTIOMETOR
- **00671556** EWNNKX10B14 Rotary Volume VR1 on VB
- **13279884** RK09K1110 10KB Rotary VR Volume VR1 2 on AB

### CAPACITOR
- **01453278** DE1307E/4706-KH Ceramic Capacitor C20 on IB

### INDICATOR, COIL, FILTER
- **12449355** FBR07HA850TB00 Ferrite Beads L1-14 on AB
- **# 01459178** PLH11B8002R2P01B1 Coil FL1 on IB
- **00894034** MA-406 16.000MHZ TE24 X:tal X1 on MB
- **00894023** MA-406 20.000MHZ TE24 X:tal X3 on MB
- **00901912** MA-406 24.576MHZ TE24 X:tal X2 on MB

### ENCODER
- **01013223** EVQ VEM F01 24B Rotary Encoder EN1 on EB

### CONNECTOR
- **13369924** 53253-0210 (2P) CN100 on AMP
- **13369925** 53253-0310 (3P) CN50 in AB, CN4 on PANEL
- **13369926** 53253-0410 (4P) CN14 on AB
- **13369928** 53253-0610 (6P) CN6 on AB
- **13369929** 53253-0720 (7P) CN2 on AB
- **13369931** 53253-0910 (9P) CN1 on AB
- **13369933** 53253-1110 (11P) CN1 on AB
- **13369934** 53253-1220 (12P) CN6 on MB
- **13369939** 53254-0310 (3P) CN16 on AB
- **13369942** 53254-0610 (6P) CN9 on AB Poor
- **# 01452556** 53313-3445 (14P) CN5 on MB
- **13493752** 5483-04UX (4P) CN2 on AMP
- **13499388** B2P2-VH7A250V (2P) CN4 on PSB
- **13369503** B7B-PH-K-S (7P) CN1 on AB
- **13369516** B9B-PH-K-S (9P) CN1 on AB
- **13369877** PS-34PE-D4T1-B1-K Header (34P) CN1 on MB

### WIRING, CABLE
- **# 01454312** W1 11X130 UL1061 28AWG CN6 on AB-CN11 on MB
- **# 01454332** W2 7X30 UL1061 28AWG CN6 on AB-CN11 on MB
- **# 01454345** W3 9X260 UL1061 28AWG CN6 on AB-CN11 on MB
- **# 01454356** W4 1X220 UL1061 28AWG CN6 on AB-CN11 on MB
- **# 01454367** W5 3X340 UL1061 28AWG CN6 on AB-CN11 on MB
- **# 01454378** W6 8X110 UL1061 28AWG CN6 on AB-CN11 on MB
- **# 01454389** W7 9X330 UL1061 28AWG CN6 on MB-CN1 on PANEL
HOW TO UPDATE THE FLASH MEMORY

フラッシュメモリーのバージョンアップの方法

MT-300S uses Flash Memory for the main program registration. With the productions, you can make the software update by floppy disks via internal FDD. Please refer to the following “Update Procedure.”

Required Item
- MT-300S Ver. Up Disk (P/N:17048697)

Update Procedure
1. Insert the MT-300S Ver. Up Disk into the disk drive. Turn the power ON while holding [Tempo] and [Metronome] buttons.
2. All of the LEDs on the panel blink as follows.
   Normal : Blinks slowly
   Error : Repeat quick double blink
3. When it is in normal condition, LCD may show “Flash ROM Update” for a moment and loading the program will be started. During the update, LCD will display as follows.”

The *** and “#” part shows the working condition. Refer to the following.

***** : ... Reading (now loading the program)
### : ... Writing (now writing the program)
# # : ... counts from 01 to 08

1. During the device check, the following display will appear.

2. Device check and display of ROM version, etc.
   During the device check, the following display will appear.

   "OTUC code Testing..."

TEST MODE

* Required Items
- MIDI Cable
- Computer Test Cable for Sound Canvas SC-88 (P/N: 17049906)
- 3.5inch Floppy Disk (Formatted)
- Expression pedal EV-5
- Foot Pedal DP-6
- Microphone
- Oscilloscope

1. Entering test mode

After turning on the power, press the [Metronome] button while holding down the [Song] and [Count In] button to enter the Test Mode. The following display will appear, and you will enter test mode.

V*** : version number
B*** : build number (This is for factory use only)
*** : destination region (DOM: 100V specs, EXP: 117/ 230/240V specs)
C*** : CPU build number (This is for factory use only)

* (Build number) and (CPU build number) are generally not displayed in the LCD, but some units of the initial production may display these. As this numbers are displayed for factory purpose, please ignore when you execute Test mode during the repair.

Press the [Transpose] button to move to item 2
* To advance to the next item you will generally use the [Transpose] button.

For some items, you will advance automatically, so refer to the explanation of each item.
* If you wish to exit test mode during this procedure, turn off the power.

2. Device check and display of ROM version, etc.

For some units, you will advance automatically, so refer to the explanation of each item.
* If you wish to exit test mode during this procedure, turn off the power.
If a problem is found, the following error display will appear.

- DEVICE (Error content)
  - Err PROGRAM ROM Program (Flash or mask ROM) fault
  - Err DREAM Work DREAM read/write fault
  - Err Wave ROM Wave ROM data content fault
  - Err RAM for DSP DSP RAM read/write fault
  - Err EEPROM EEPROM read/write fault
  - Err DATA ROM DATA ROM data content fault
  - Err DATA TYPE DATA ROM type check fault
  - Err FDC EX PORT FDC EXCHASMENTE PORT fault

If the test results were OK, the following display will appear.

(If the test result was NG, press [Transpose] to advance to the next test item.)

Press the [Transpose] button to advance to item 3.

3. Button and LED check

All LEDs will light, and the following display will appear.

Note: If you wish to check item 3, do not press the [Transpose] button first. If you press the [Transpose] button first, you will advance to item 4.

Once you begin the checking process for this test item, it is not possible to advance to the next item before testing all buttons. Press the following buttons, and confirm that a sound is heard and that the button LED goes dark.
[Marker A] [Marker B] [Repeat] [Transpose] [Count In] [Metronome] [Play] [Rec]
Press the following button twice, and confirm that a sound is heard and that the button LED goes dark. (If the test result were NG, press [Transpose] to advance to next test item.)

Press the following buttons to check the effect sound and the panning etc.

At this time, you can move to item 6 by pressing [Transpose].

If all buttons are normal, you will automatically advance to item 4.

4. Checking the effect sound and speaker panning etc.

If all buttons are normal, you will automatically advance to item 4.

LDC O shown below. Press the [Transpose] button to advance to item 5.

5. Pedal operation check

Connect the Expression pedal and Foot pedal Expression to the Expression Pedal Jack and Start/Stop Jack.

Press the [Transpose] button to advance to item 5.

6. Encoder operation check

Rotate the Encoder clockwise. Value in the LCD decreases and when it reaches to “30”, “OK” is displayed at ENC of the LCD. Next rotate the Encoder counterclockwise. Value in the LCD decreases and when it reaches to “0”, “OK” is displayed at DEC of the LCD.

Press the [Transpose] button to advance to item 7.

If no problem is found, you will automatically advance to the next item.

Note: If you wish to check item 3, do not press the [Transpose] button first.

Press the following buttons to check the effect sound and the panning etc.

If the test results were OK, the following display will appear.

In [4], [Metronome] will blink red.

The following items will blink red and the following display will appear.

Press the following buttons twice, and confirm that a sound is heard and that the button LED on the left side of the display changes from orange to green to dark, and that the button LED goes dark the second time.

Press the following buttons, and confirm that a sound is heard and that the button LED goes dark.

[Marker Clear] [M. Beat] [B. Tempo] [T. Menu] [M. Disk] [D. Tune] [T]
[Reverb] [R. Edit] [D. Edit] [Reset] [S. Stop] [B. [Bwd] [Fwd] [6Track] [1]
7. Serial interface check
The following display will appear.

- MIDI operation check
Set the computer switch to the MIDI position. "M" symbol will be displayed to the middle of "MT" in the LCD.
Using a MIDI cable, connect the MIDI IN to the MIDI OUT located at the back of MT300S.
If the test result is OK, the LCD will indicate "OK" as follows.

- Computer interface operation check
Connect a computer test cable (part no. 17049906) to the Computer connector located at the back of MT300S.
Set the computer switch to Mac, PC-1 or PC-2, an underline will be displayed below the corresponding position ("Mac", "P1" or "P2") in the LCD. Then turn on the switch of the computer test cable. If the result is OK, "OK" will appear at each position of the LCD.

8. Floppy Disk Drive check
*NOTE: After this check, data within the disks will be lost.
The following display will appear.

Prepare the 2DD Disk and 2HD Disk.
Insert a 2DD disk (protect OFF) and check the display [2DD: Protected].
Insert a 2HD disk (protect OFF) and check the display [2HD: OK].
If an error occurs, the problems will be indicated as follows.
Unformatted——Disk did not formatted correctly.
NG———There is a failure in the disk or disk drive.
Press the [Transpose] button to proceed to item 9.

9. LCD check
When you enter this mode, the entire LCD will go dark.
Next, press the [Transpose] button and confirm that the LCD lights entirely as following.

10. Destination region setting
The following display will appear.

11. Exiting test mode
To exit test mode, turn off the power.
(If press the [Transpose] button here, you can jump to the first item of the Test Mode.)

12. Mic check
After exiting test mode, connect a mic to the Mic In jack and rotate the knobs (Mic Volume and Mic Echo) to verify that each function operates correctly.
REPLACING FDD MF355F-3252MG (PNo.01341956) / FDD MF355F-3252MG (PNo.01341956) の交換について

When replacing MF355F-3252MG, attach 4 adhesive acetate fiber tape (PNo.40122612) (10mm wide) to the new FDD before mounting it on MT-80s (see the figure below).

Important : The tape is to isolate vibration and must be attached.

NOTE2 : Attach the tape along the bottom surface as shown in the figure. Attach it to the other side as well.

NOTE1 : Wrap the tape once around the FDD, covering at least 1mm from the bezel's edge as shown in the figure. Make sure that the tape cannot be seen from the front when MT-80s is assembled.

NOTE3 : Wrap the tape once around and between the screw holes on the bottom surface of the FDD as shown in the figure.

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CIRCUIT BOARD (MAIN)
CIRCUIT BOARD (ANALOG) / 基板図

View from components side.
CIRCUIT DIAGRAM (ANALOG) / 回路図
CIRCUIT BOARD (PANEL) / 基板図
View from components side.

CIRCUIT BOARD (PS.AMP)/基板図

CIRCUIT DIAGRAM (PS.AMP)/回路図

Power SW

Inlet

INLET BOARD ASSY 71013290

POWER-SW BOARD ASSY 71013867

Amp

AMP BOARD ASSY 71013890