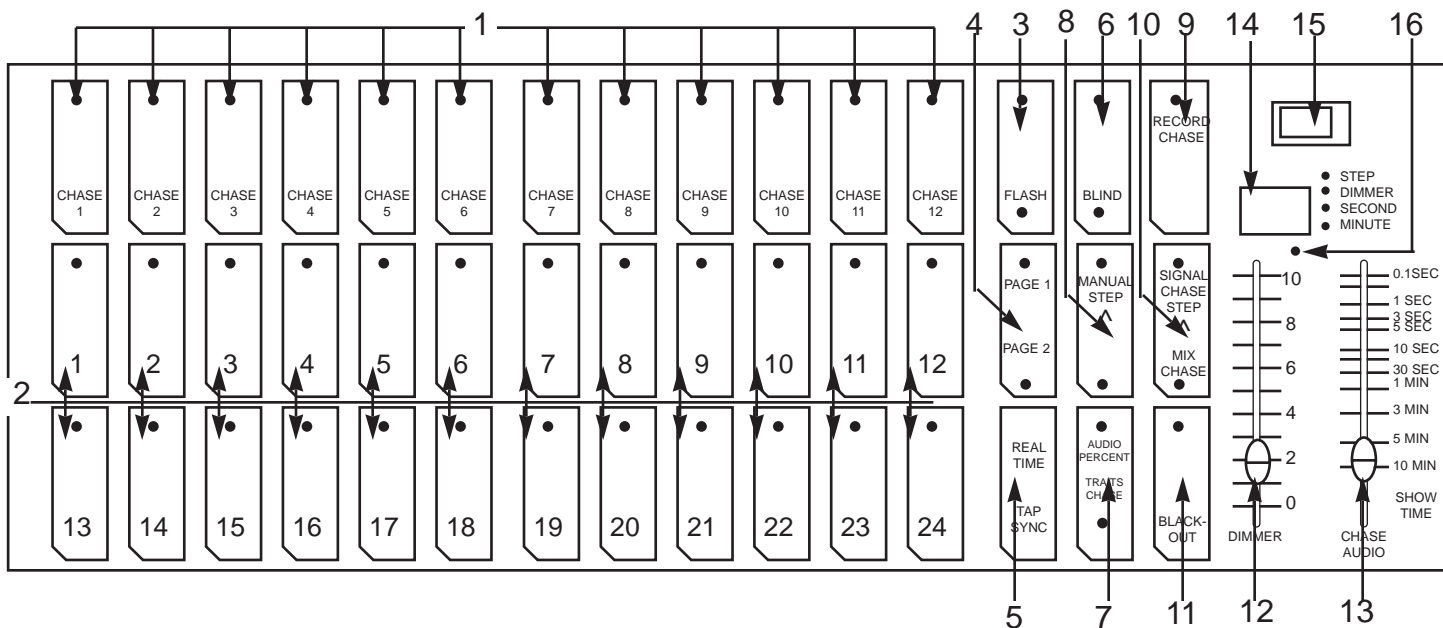# American DJ®

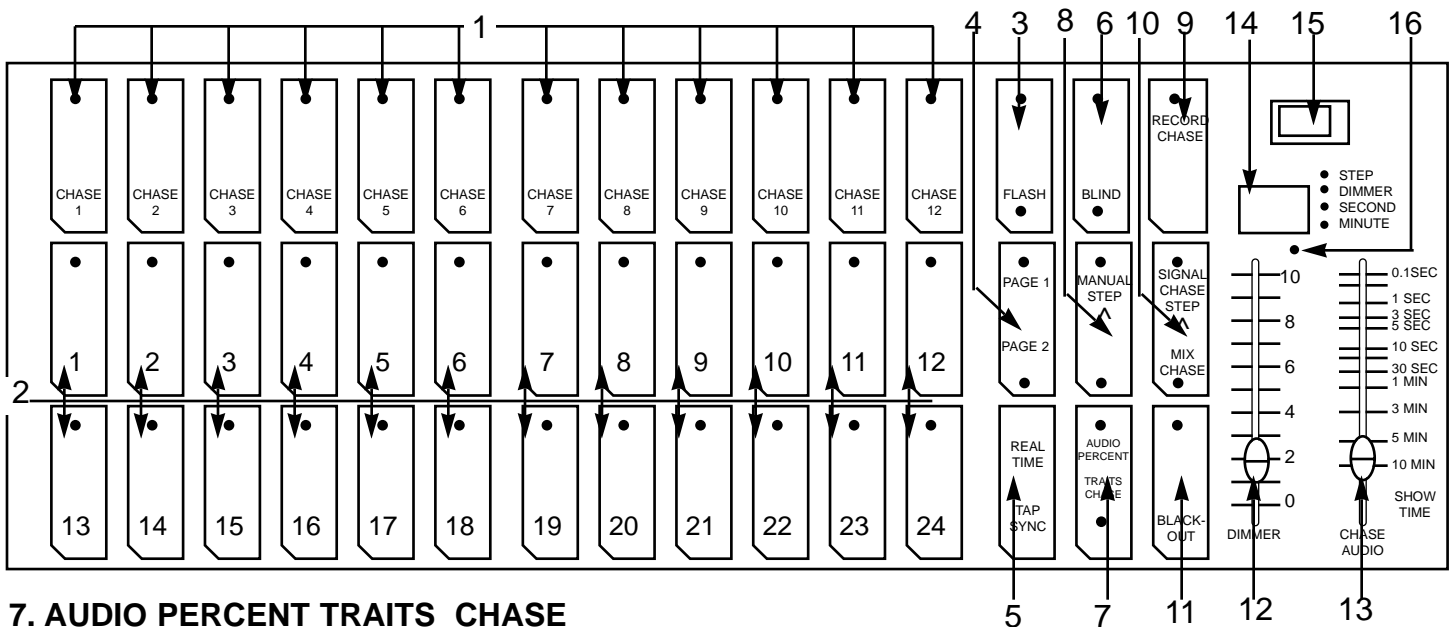# TP-DMX24F ™ 24 Ch. DMX/Analog Programmable Touch Panel

CONTROLS AND FUNCTIONS

1. **CHASE 1-12** and LED indicator
2. **CHANNEL 1-24** and LED indicator
3. **CH 1-24 HOLD/FLASH** selector
   HOLD indicator/FLASH indicator
4. **PAGE 1 / PAGE 2**
   PAGE 1 Selects **CHASE** 1 to 12
   PAGE 2 Selects **CHASE** 13 to 24
5. **REAL TIME /TAP SYNC**
   REAL-TIME: DEFINES THE DURATION OF EACH STEP WHEN PROGRAMMING
   TAP SYNC: DEFINES THE RUNNING SPEED WHEN RUNNING THE PROGRAMS
6. **ASSIGN SCENE /BLIND**
   a:ENTER OR EXIT FROM PROGRAMMING MODE
   b: ASSIGN ONE CHANNEL TO ANY OTHER CHANNEL OF CHANNELS 1-24
   BLIND: PRESS **ASSIGN SCENE / BLIND** & **CHANNEL 1-24**
   TO DESIGNATE MANUAL CONTROL OF THAT CHANNELS OUTPUT

SPECIFICATIONS:

POWER input: DC + 16V-22V • Current Requirement: >8OOmA • Power consumption: <12W
Output: DMX512 , MIDI IN, OUT, THRU• AUDIO input: 100mv-1 vp-p-p
Dimensions:19" x 3.5" x 1.5" (483mm x 178mm x 30mm) • Weight: 4 lbs. (2 kg)

CONTROLS AND FUNCTIONS Cont.

7. AUDIO PERCENT TRAITS CHASE

a. Shift of (00-255 or 0% -100%)

b: Select AUDIO or CHASE mode when running program

8. MANUEL / STEP ∧

a. Used to increase the steps or program when programming

b. Press **AUDIO PERCENT TRAITS CHASE** and **PAGE 1 / PAGE 2 +MANUEL / STEP ∧**   to insert

 one step when programming

c. When unit is in manual mode, LED is lit.

9. RECORD CHASE

a. Enter or exit from programming mode

b. Hold this key for 0.5 seconds til LED lit afterwhile, select desired chase program from **CHASE 1 CHASE 24**

10. SINGLE CHASE / MIX CHASE / STEP ∨

a. Use this to decrease the steps when programming

b. Press **AUDIO PERCENT TRAITS CHASE** and **PAGE 1 / PAGE + SINGLE CHASE /**

MIX CHASE / STEP to delte a step.

c. Press this key to run program when programming

d. Press this key to select **SINGLE CHASE** OR **MIX CHASE** IN **AUDIO /CHASE**

11. BLACK OUT

 Stops out put but any programs will still run

12 DIMMER FADER

 Use this to adjust output value

13. CHASE FADER

 Use this to adjust chasing speed of each step or adjust sensitivity when in audio mode.

14. LCD DIGITAL DISPLAY

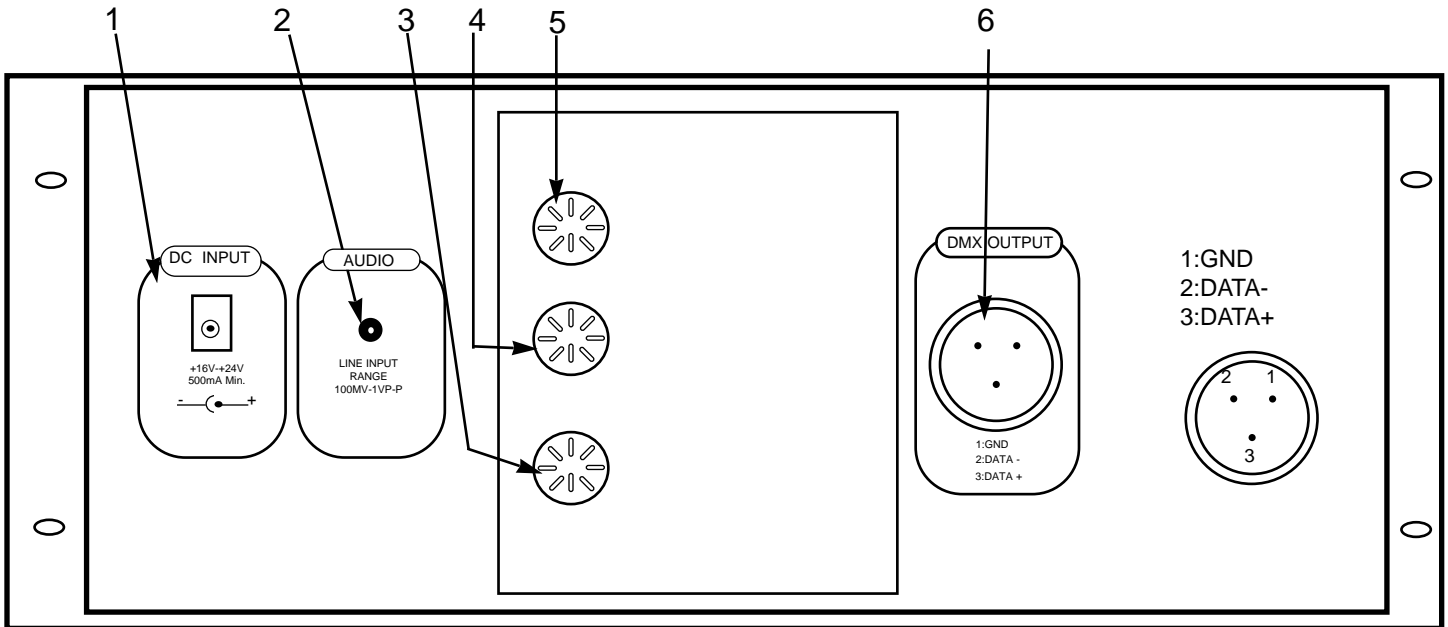 Displays the step, DIMMING LEVEL (0-100% OR 00-255), CHASING SPEED (SECOND AND MINUTE).

15. POWER SWITCH

 Used to turn power on and off.

16. MIC

 Mic sensor

CONTROLS AND FUNCTIONS Cont.

1.   DC INPUT 16-24V 220mA min
2.   LINE INPUT (EXT AUDIO INPUT) JACK (lOOmV to 1 vp-p-p)
3.   MIDI IN
     Receives MIDI data
4.   MIDI OUT
     Transmit MIDI data output
5.   MIDI THRU
     Repeats and sends MIDI input
6.   DMX OUTPUT

OPERATING INSTRUCTIONS

There are 6 modes of operation plus BLACKOUT
1. MANUAL
2. PROGRAM
3. RECORD / CHASE
4. ASSIGN SCENE
5. ASSIGN CHANNEL
6. STEP CHASE
7. BLACK OUT

OPERATING INSTRUCTIONS Cont..

1. MAKE SURE THE TRANSFORMER IS CORRECT 16 TO 24 DC AND CORRECT POLARITY .

2.Plug in transformer and turn on unit. LED's for HOLD / FLASH, TRAITS CHASE, PAGE 1 and
 DIMMER are on. you are now in MANUAL MODE

1. MANUAL MODE
 Touch any **(FIG 2.) CHANNEL 1-24** BUTTON the LED will light and that channel is turned on, the
maximum output is displayed on **(FIG14.) LCD DIGITAL DISPLAY.**
You can touch **(FIG 3.) CH 1-24 HOLD/FLASH** for 0.5 sec until LED for HOLD is lit. This will keep
Channel LED's lit until you touch them again.

2. PROGRAM
 2.1 CHASE PROGRAM
 2.2 ASSIGN SCENE PROGRAM
 2.3 DIMMER SETTING in MANUAL MODE

 *The CODE setting must be entered to enter PROGRAM MODE and to cancel the code of a
Chase.*

2A. Touch **(FIG 6.) ASSIGN SCENE /BLIND** and **(FIG 9.) RECORD CHASE** at the same time. for
0.5 sec.
 LED's will light for these and for HOLD on **(FIG 3.) CH 1-24 HOLD/FLASH .**

2B. Touch in sequence **(FIG.1.) CHASE 8** , **(FIG.1.) CHASE 9** , **(FIG.1.) CHASE 6** , **(FIG.1.)
CHASE 2** , all LED's will blink 3 times and LED's on HOLD ASSIGN SCENE AND RECORD CHASE
WILL REMAIN LIT. if correct code is entered. If a mistake was made the LED's will turn off and you
need to repeat step 2A.. and 2B.

The Memory capacity of this console is 24 Chases With each Chase containing 999 steps. 24 chan-
nels are available for each step. The total steps available are 2304.

2.1 CHASE PROGRAM
**MAKE SURE (FIG12) DIMMER FADER IS SET TO MAXIMUM WHEN STARTING TO PRO-
GRAM.**
A. Touch any **(FIG.1.) CHASE 1-24** (Using **(FIG 4.) PAGE 1 / PAGE 2**) Corresponding LED's light
and
(FIG14.) LCD DIGITAL DISPLAY read 01 indicating first step.

B. Touch **(FIG 9.) RECORD CHASE** for 0.5 sec. All LED's will blink, you can then touch any **(FIG 2.)
CHANNEL 1-24** buttons for 0.5 sec corresponding LED will light up. Touching any lit channel button
again will cause it to blink rapidly. At this point you can adjust the dimmer level for that channel. any
other channels in this step will remain at full value or what ever level you set them at. To change
display from 0-100% to 00- 255 touch and hold for 0.5 sec **(FIG 7.) AUDIO PERCENT TRAITS
CHASE** and move **(FIG12) DIMMER FADER.** Continue until all Channels that you need for this
step are on.

OPERATING INSTRUCTIONS Cont.

2.1 CHASE PROGRAM Cont.

At this point you can set the duration between this and the next step in the chase if you want to do this.

Use **(FIG13.) CHASE FADER** *or touch* **(FIG 5.) REAL TIME /TAP SYNC**, *wait until the interval is what you want, then touch* **(FIG 5.) REAL TIME /TAP SYNC** *again. For most programs let the default setting of 0.3 be used.*

C. Touch **(FIG 9.) RECORD CHASE** for 0.5 sec. All LED's will blink, then Channel LED's will go out.This means the first step is memorized **(FIG14.) LCD DIGITAL DISPLAY** shows 02, step LED is lit.Step 2 is ready to be programmed.

D. If at any point during this programming you can touch **(FIG10.) SINGLE CHASE / MIX CHASE / STEP** and go back to any step you wan to edit.

E. When you are finished programming the chase, touch whatever **(FIG.1.) CHASE 1-12** button you were programming until LED turns off. At this point you can touch another **(FIG.1.) CHASE 1-12** button that you want to program. Repeat A,B,C,D until all CHASES are completed you can now exit **CHASE PROGRAM** by again touching **(FIG 6.) ASSIGN SCENE /BLIND** and **(FIG 9.) RECORD CHASE** .

INSERT AND DELETE STEPS

To insert a step while you are in **CHASE PROGRAM** mode Tap **(FIG 8.) MANUEL / STEP** or **(FIG10.) SINGLE CHASE / MIX CHASE / STEP** until you reach the step you want to insert an additional step after. Touch and hold **(FIG 4.) PAGE 1 / PAGE 2 + (FIG 7.) AUDIO PERCENT TRAITS CHASE**, while holding these buttons touch and hold **(FIG 8.) MANUEL / STEP** for 0.5 sec. A new step is added and all following steps are bumped 1 step i.e if add a step after #5 the old step #6 would become #7.

To delete a step while in **CHASE PROGRAM** mode Tap **(FIG 8.) MANUEL / STEP** or **(FIG10.) SINGLE CHASE / MIX CHASE / STEP** until you reach the step you want delete. Touch and hold **(FIG 4.) PAGE 1 / PAGE 2 + (FIG 7.) AUDIO PERCENT TRAITS CHASE**, while holding these buttons touch and hold **(FIG10.) SINGLE CHASE / MIX CHASE / STEP** for 0.5 sec. The **(FIG14.) LCD DIGITAL DISPLAY** will read one less than the step # you deleted i.e if you deleted step #5 the **(FIG14.) LCD DIGITAL DISPLAY** will now read 04 when you finish.

2.2 ASSIGN SCENE PROGRAM

This is to assign any **CHANNEL 1-24** to any other one or more **CHANNEL 1-24 .**
A. While in PROGRAM MODE, to assign CHANNEL 2 to CHANNEL 1-8. Touch **(FIG 2.) CHANNEL 1-8** until all LED's are on .

B. Touch any Channel 1-8 again LED blinks rapidly adjust value with **(FIG12) DIMMER FADER**. Repeat with all Channels until desired effect is attained.

C. Touch and hold **(FIG 6.) ASSIGN SCENE /BLIND + (FIG 2.) CHANNEL 2** for 0.5 sec , all LED's blink and then turn off which means CHANNEL 2 has been ASSIGNED to CHANNELS 1 to 8
This is used primarily for midi control, but can be extremely useful,l because you can recall 24 preset scenes on demand.

OPERATING INSTRUCTIONS Cont.

2.3 DIMMER SETTING IN MANUAL MODE
To adjust DIMMING/VALUE of any channel in Manual mode.
A. Enter **CHASE PROGRAM** mode, Touch any **(FIG 2.) CHANNEL 1-24** when LED is on touch same channel again until LED starts to blink. You can now use **(FIG12) DIMMER FADER** to adjust output. Set as many CHANNELS as you want in this manner.
B. Touch **(FIG 9.) RECORD CHASE** button for 0.5 sec until all LED's blink. This means output has been memorized.

2.3.1 **CODES**
The following are codes entered using the **(FIG.1.) CHASE 1-12** buttons.
ENTER PROGRAM MODE
A. Touch **(FIG 6.) ASSIGN SCENE /BLIND** and **(FIG 9.) RECORD CHASE** at the same time. for 0.5 sec.
LED's will light for these and for HOLD on **(FIG 3.) CH 1-24 HOLD/FLASH .**
B. Touch in sequence **(FIG.1.) CHASE 8** , **(FIG.1.) CHASE 9** , **(FIG.1.) CHASE 6** , **(FIG.1.) CHASE 2** , all LED's will blink 3 times and LED's on HOLD ASSIGN SCENE AND RECORD CHASE WILL REMAIN LIT. if correct code is entered. If a mistake was made the LED's will turn off and you need to repeat step 2A.. and 2B.

DELETE CHASING PROGRAM
A. Touch **(FIG 6.) ASSIGN SCENE /BLIND** and **(FIG 9.) RECORD CHASE** at the same time. for 0.5 sec.
LED's will light for these and for HOLD on **(FIG 3.) CH 1-24 HOLD/FLASH .**
B. Touch in sequence **(FIG.1.) CHASE 9** , **(FIG.1.) CHASE 6** , **(FIG.1.) CHASE 5**, then **(FIG.1.) CHASE #** you want to delete, all LED's will blink 3 times and LED's will turn off.

CLEAR ALL(CHASE PROGRAM/ASSIGN SCENE PROGRAM / CHANNEL OUTPUT.
A. Touch **(FIG 6.) ASSIGN SCENE /BLIND** and **(FIG 9.) RECORD CHASE** at the same time. for 0.5 sec.
LED's will light for these and for HOLD on **(FIG 3.) CH 1-24 HOLD/FLASH .**
B. Touch in sequence **(FIG.1.) CHASE 9** , **(FIG.1.) CHASE 6** , **(FIG.1.) CHASE 8**, **(FIG.1.) CHASE 1** , all LED's will blink 3 times and LED's will turn off.
EVERYTHING MEMORIZED IN TP-DMX24F WILL BE ERASED!

3. RECORD / CHASE
Once you have programmed TP-DMX24F you can run RECORD / CHASE.
In MANUAL MODE touch **(FIG 9.) RECORD CHASE** for 0.5sec. LED is lit. If Chase LED of **(FIG 7.) AUDIO PERCENT TRAITS CHASE** is lit the unit is in CHASE mode. If SINGLE LED of **(FIG10.) SINGLE CHASE / MIX CHASE / STEP** is lit, the unit is in SINGLE CHASE. You can touch **(FIG10.) SINGLE CHASE / MIX CHASE / STEP** to select MIX Chase**.**
In SINGLE CHASE mode, all selected chasing programs are run in the order you selected them.
In MIX CHASE mode, all selected chasing programs are run at the same time.

OPERATING INSTRUCTIONS Cont.

3. RECORD / CHASE cont.
There are 3 ways to control the chase program 1. CHASE, 2. AUDIO, 3. MANUAL

3.1. CHASE control
A. Set **(FIG13.) CHASE FADER** to SHOW position > 10 min.
 The Chase will be controlled by what ever time was programmed in section **2.1**
 (The default setting is 0.3 sec)
 B. Set **(FIG13.) CHASE FADER** to any position up to 10 min
 The Chase will be controlled by what ever time selected, all steps will be the same duration.
C. Tap **(FIG 5.) REAL TIME /TAP SYNC** 2 times
 The Interval between the 2 Taps controls the chase steps.

3.2. AUDIO control
A. Touch **(FIG 7.) AUDIO PERCENT TRAITS CHASE** AUDIO LED lights.
 Chase is controlled by bass beats of Music. Sensitivity is adjusted by **(FIG13.) CHASE FADER.**
 If you have a line connected to EXT AUDIO input built in MIC is disabled.

3.3. MANUAL control
A. Touch **(FIG 8.) MANUEL / STEP** LED lights up and AUDIO and CHASE LED's of **(FIG 7.) AUDIO PERCENT TRAITS CHASE** button turns off. Unit is in MANUAL control. Tap **(FIG10.) SINGLE CHASE / MIX CHASE / STEP** to step thru program.

4. ASSIGN SCENE
Once you have programmed TP-DMX24F and it is in MANUAL mode
A. Touch **(FIG 6.) ASSIGN SCENE /BLIND** for 0.5 sec. LED lights up indicating unit is in ASSIGN SCENE

B. When you want to assign Channel 2 to Channels 1-8 , touch **(FIG 2.) CHANNEL 2**, LED lights, **(FIG14.) LCD DIGITAL DISPLAY** reads 02,Channels 1-8 LED's are on and their output is turned on. Touch **(FIG 3.) CH 1-24 HOLD/FLASH** until Hold LED is lit, then touch **(FIG 2.) CHANNEL 2** , LED remains on as does Channel 1-8 LEDs.They remain on until **(FIG 2.) CHANNEL 2** is touched again.

5. REAL TIME EDIT (USING **(FIG 6.) ASSIGN SCENE /BLIND BUTTON**)
 5.1 EDIT OUTPUT LEVEL while using CHASE MODE
 Press **(FIG 6.) ASSIGN SCENE /BLIND** + touch the **(FIG 2.) CHANNEL 1-24** button of the
 CHANNEL, you wish to adjust, twice. The LED will blink rapidly use **(FIG12) DIMMER FADER**
 to change the value.
 WHEN YOU EXIT FROM RECORD CHASE MODE EDIT IS CANCELED

4. BLACKOUT
BLACK OUT (no output) is engaged by touching **(FIG11.) BLACK OUT** LED blinks rapidly.
To return to normal operation touch **(FIG11.) BLACK OUT** until LED turns off.

MIDI SETTING AND RUNNING

MIDI SETTING

Touch and hold **(FIG.1.) CHASE 9, CHASE 10, CHASE 11,CHASE 12**, while power is being turned on.
CHASE 1, CHASE 2, CHASE 3 LEDs blink rapidly and **(FIG14.) LCD DIGITAL DISPLAY READS** ᴙᴙᴙ this means console is in MIDI mode.

1. **CHASE 1 MIDI SEND / CHASE 2 MIDI RECEIVE**
 Touch **CHASE 1 or CHASE 2** the LEDs blinks and go out. MIDI channel is defined, as CHANNEL 1-16,CHANNEL 17-24 is not assigned. Touch any CHANNEL 1-16, LED lights then touch **(FIG 7.) AUDIO PERCENT TRAITS CHASE**, selected CHANNEL is memorized. Touch **(FIG 7.) AUDIO PERCENT TRAITS CHASE** once more to exit from MIDI and to return to MANUAL mode.

2. **CHASE 3 MIDI MEMORY DUMP.**
 Touch **CHASE 3**, LED lights, and other turn off. touch once more to transmit memory information, when the LED blinks, transmission is done. Touch **(FIG 7.) AUDIO PERCENT TRAITS CHASE** the LEDs of **CHASE 1, CHASE 2, CHASE 3** light. Touch **(FIG 7.) AUDIO PERCENT TRAITS CHASE** once more to exit from MIDI and to return to MANUAL mode.

MIDI RUNNING

1. **NOTE ON / NOTE OFF**
 To receive note on / note off information touch **(FIG 2.) CHANNEL 1-24** note on / note off information is sent with maximum speed.

NOTE NUMBER	CHANNEL
88-111	1-24

Touch KEY to send PROGRAM CHANGE infor mation or to receive PROGRAM CHANGE information and to run.

NOTE CHNG NUMBER	CHANNEL
PROGRAM CHNG NUMBER	FUNCTION
0 - 23	TURN ON CHASE 1-24
24 - 47	TURN OFF CHASE 1-24
96	SINGLE CHASE
97	MIX CHANNEL