

REEL EFX INC.

RE III Fan Owner's Manual



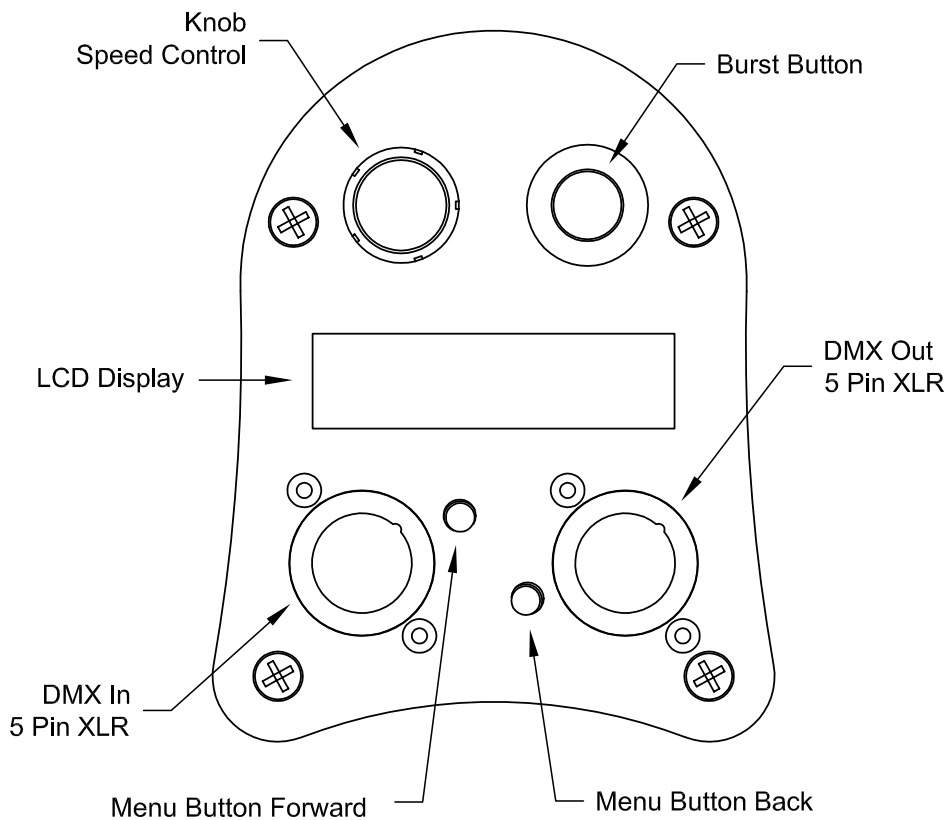
5539 RIVERTON AVENUE
NORTH HOLLYWOOD, CA 91601
PHONE 818.762.1710
FAX 818.762.1734

www.reelefx.com

SPECIFICATIONS

MOTOR:	1 Horsepower, Single phase 50/60 cycle
POWER:	100-120v & 200-240v
SPEED CONTROL:	Solid-state, variable frequency drive
DMX CONTROL:	USITT Compliant DMX 512 w/5 PIN XLR
WEIGHT:	49 lbs.
MOUNTING:	Steel floor stand with spud mount
DIMENSIONS:	Body size 22" x 24" Roto molded high impact plastic
BLADES:	9 Blades 16" Diameter
GRILL:	Impact resistant nylon
WARRANTY:	One year parts and labor

CONTROL PANEL



OPERATION AND SAFETY

Introduction

The REIII fan is designed specifically for professional studio, stage, location and theme park applications where maximum wind at the lowest possible noise level is required.

Advanced aerodynamics and a one horsepower motor create wind in excess of 25mph, combined with a rotary molded housing, composite blade assembly and integrated DMX interface make the REIII the quietest, lightest, most powerful and versatile special effects fan available.

Operation

The REIII fan can draw up to 15amps @ 117v at full power and should be connected to a 15 or 20amp service for maximum performance. Extension cords, when required, should be a 12/3 heavy-duty type.

Local mode is for general operation of the fan from the speed control knob mounted on the control panel.

DMX mode is used when a lighting console is sending DMX signals to control the fan through the 5 pin DMX jack.

The modes of operation are accessed by using the two small push buttons and the speed control knob. The (>) button takes you to the mode selection menu and the current operating mode will be blinking. Use the speed control knob to scroll to the desired mode. The (>) button saves the selection and returns to the selected operation mode. The (<) button will exit the mode menu without changing the current operating mode.

Safety

The REIII fan is extremely powerful in relation to its size and the following precautions should be followed.

- ❑ Suction at the fan inlet is extremely strong at full power. Loose particles, dirt, etc. can be ingested and expelled at high velocity.
- ❑ When mounting the fan on a Junior or similar stand be sure to sand bag appropriately or blow over is certain.

DMX INTERFACE

Description

The DMX interface is fully USITT 1990 compliant featuring an address range of 1-512 and industry standard 5 pin XLR connectors. The DMX input is short circuit protected and will accept voltage up to 120vac without damaging the interface.

Operation

The REIII fan uses a single address to provide proportional motor control. Level 0 is off and 255 full power. To operate the fan using DMX, the DMX operation mode must be selected and the address set to the desired value. When a valid DMX signal is detected, the decoded level will be displayed on the LCD display.

Addressing

To set the address the fan must be in DMX mode. Press the (>) button twice, you will see the set screen. The first character will be underlined. The underlined character can be changed using the speed control knob. Change digits using the (> or <) buttons and set the desired address. A final press of the (>) button will save the selection and exit to the DMX display screen.

Trouble Shooting

The control panel display will show the status of the incoming DMX signal and can be used to determine problems.

- ☐ **DMX Lost** The DMX signal has been interrupted or corrupted for more than 1 second.
- ☐ **DMX ERROR** The DMX controller is set to an address not supported by the console.
- ☐ **LEVEL - - -** No DMX signal present.

Termination

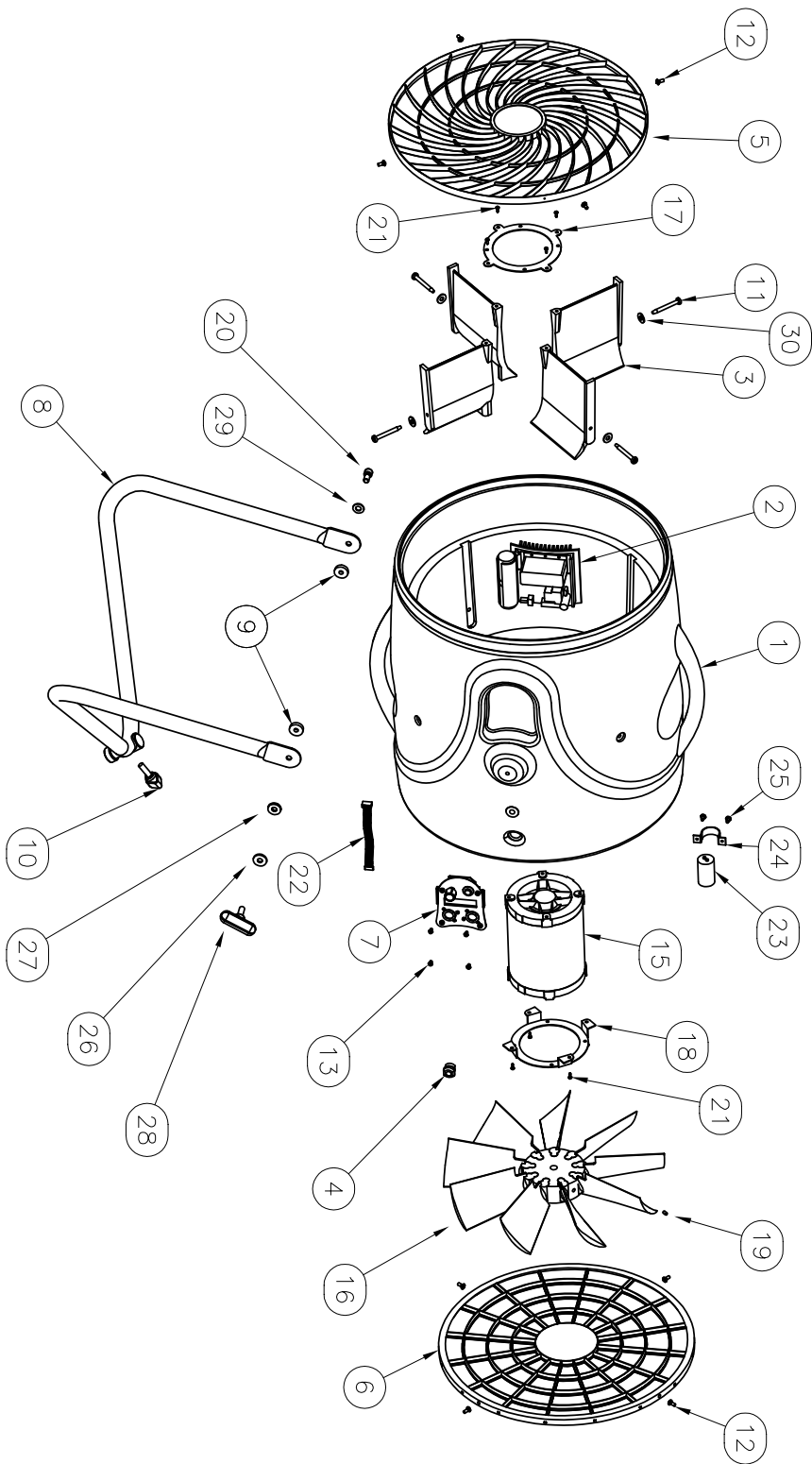
The last device on the DMX line should be properly terminated to prevent signal reflections and possible corruption of data. A standard DMX terminating plug containing a 120ohm – ½ watt resistor placed across pins 2&3 is recommended.

XLR Pin out

- ☐ Pin 2 DMX512 common
- ☐ Pin 2 Data-
- ☐ Pin 3 Data+
- ☐ Pin 4&5 Not used (passed thru)

PARTS LIST

RE III ASSEMBLY			
ITEM	QTY	PART #	DESCRIPTION
1	1	001	FAN BODY
2	1	004	SPEED CONTROL
3	4	002	STATOR
4	1	021	STRAIN RELIEF
5	1	012	FRONT GRILL
6	1	013	REAR GRILL
7	1	015	CONTROL PANEL
8	1	017	TRIANGULAR STAND
9	2	018	LEATHER WASHER
10	1	019	TEE HANDLE (5/16-NC)
11	4	003	STATOR SCREW
12	8	014	FRONT/REAR GRILL SCREW
13	4	009	CONTROL PANEL SCREW
15	1	005	1 HP MOTOR
16	1	016	BLADE ASSEMBLY
17	1	006	FRONT MOTOR MOUNT
18	1	007	REAR MOTOR MOUNT
19	1	010	SET SCREW
20	1	030	3/8-NCx1/2 CAP SCREW
21	8	008	MOTOR MOUNT SCREW
22	1	022	SPEED CONTROL DATA CABLE
23	1	023	MOTOR CAPACITOR
24	1	024	CAPACITOR BRACKET
25	2	025	CAPACITOR BRACKET SCREW
26	1	026	NYLON WASHER
27	1	027	THRUST WASHER ASSEMBLY
28	1	028	TEE HANDLE (BLACK)
29	1	029	3/8 FLAT WASHER
30	4	011	WASHER A



REEL EFX PRODUCTS



DF-50 DIFFUSION HAZER



RE II TURBO FAN



RE III FAN



AIRPUPPET FAN



DIGITAL AIR CONTROLLED FAN



DIFFUSION IN A CAN

Reel EFX was founded in 1982 to address the special effects needs of commercial and film production companies. Reel EFX provides the following services.

- 1. Manufacturing and Development** of industry leading equipment for sale through a worldwide distribution network.
- 2. Design and fabrication of mechanical, atmospheric, and physical effects** for film and television. Including pyrotechnic, flying, weather, radio control, pneumatic, automobile effects, multicam, and specialty props.