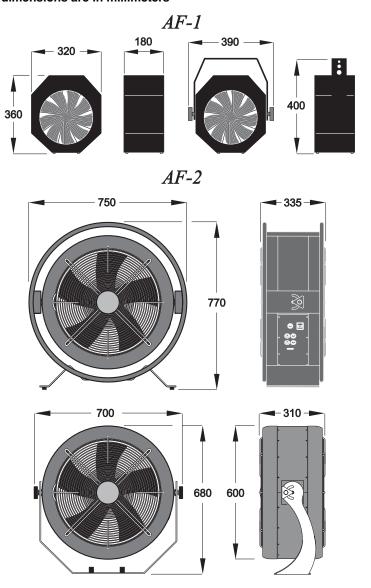
AF-1 and AF-2 fans

user manual



DIMENSIONS

All dimensions are in millimeters



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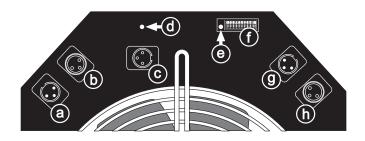
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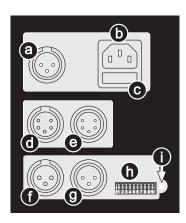
AF-1 Fan



- a Analog 0 10 V in
- b Analog 0- 10 V out
- c Remote in
- d Power LED

- e Data LED
 - f DIP switch
 - g DMX in (3-pin XLR)
 - h DMX out (3-pin XLR)

AF-2 Fan



- a Remote in
- b Power inlet
- c Main fuseholder
- d DMX out (5-pin XLR)
- e DMX in (5-pin XLR)
- f DMX out (3-pin XLR)
- g DMX in (3-pin XLR)
- h DIP switch
- i Data LED

INTRODUCTION

Thank you for selecting a JEM AF series fan.

The AF-1 and AF-2 fans are powerful machines designed for professional and semi-professional use in clubs, TV studios, theaters and touring contexts. They are suitable for a wide range of applications including smoke and haze dispersal, sending smoke through ducting, wind effects and cooling performers or equipment. When fans are used at high output in conjunction with a smoke machine at low output, a perfect haze effect can be produced.

Both fans have high quality sealed motors designed to withstand the high condensation levels associated with close proximity smoke

AF-1 and AF-2 fans can be controlled using the remote control unit supplied with each product or via DMX on a serial data link. They may be interfaced with ZR12AL, ZR12DMX, ZR22STD, ZR22DMX and ZR33 smoke machines and Club Smoke System to allow simultaneous smoke and fan operation.

When used in combination with smoke machines, etc., DMX control allows atmospheric effects to be integrated in the light show directly from the lighting console. The remote control allows variable fan speed in continuous or timer operation. When using the built-in timer, operating periods and intervals between operating periods can be set independently.

The AF-1 fan can also be controlled using a 0 - 10 V analog controller.

The most recent version of this manual is available under Smoke in the Support area of the Martin website at: http://www.martin.com

Features

- DMX control.
- Remote control with instant or timer-controlled operation.
- 5 meter (16.4 ft.) remote cable.
- · Variable fan speed.
- · Adjustable flying bracket offering 180° of tilt
- · Can be flown or placed on a flat surface

- Rugged construction.
- Sealed high-quality maintenance-free fan motor offers high airflow, high resistance to condensation, ingress of dirt, smoke fluid, etc. and low noise.

The AF-1 can also be controlled singly or on a multiple link using an analog 0 - 10 V controller.

Safety information

Warning!

This product is not for household use. It presents risks of lethal or severe injury due to electric shock, falls and fast-moving blades.

To reduce the risk of fire or electric shock, do not use this fan with any solid-state speed control device.

Read this manual before powering or installing the fan, follow the safety precautions listed below and observe all warnings in this manual and printed on the machine. If you have questions about how to operate the machine safely, please contact a JEM/Martin dealer for assistance or call the Martin 24-hour service hotline on +45 70 200 201.

Refer any service operation not described in this manual to a qualified technician.

Preventing electric shocks

- Always ground (earth) the machine electrically.
- Use only a source of AC power that complies with local building and electrical codes, and that has both overload and ground-fault protection.
- Check the AC supply voltage is correct for use with the machine. The voltage setting is printed on the machine's serial label.
- Disconnect the machine from power before removing any components or servicing, and when not in use.
- Moisture can cause dangerous electrical faults. Do not aim fog output at electrical connections or devices.
- Do not expose this machine to wet conditions the machine is not waterproof.
- Do not spill fluid over the machine. If fluid is spilled, disconnect the machine from power and clean with a damp cloth. If fluid is spilled onto electronic parts, contact an approved JEM/Martin dealer for advice.

- Do not dismantle or attempt to repair a faulty machine. Refer all service to an authorized JEM/Martin service dealer.
- Do not operate the machine if the power cable or connector is damaged. A damaged cable or connector must be replaced with a new item, available from your JEM/Martin dealer.
- Do not operate the machine with damaged, deformed or missing parts.

Preventing burns and fire

- Ensure that airflow around the machine is free and unobstructed.
- Do not operate the machine if the ambient temperature (T_a) exceeds 55° C (131° F).

Preventing injuries

- Never allow any object or part of your body to enter the path of the fan blades, and ensure that clothing, cables or other items cannot be sucked into the fan.
- Disconnect the fan from power before removing any cover or grill. Do not operate the fan unless all covers and grills are installed and securely fastened.
- Ensure that the supporting structure or surface can hold at least 10 times the weight of all installed devices.
- Use an approved means of secondary attachment such as a safety cable.
- Work from a stable platform and block access below the work area when installing, servicing or removing the machine.

Unpacking

AF-1 and AF-2 fans are supplied with:

- Remote control unit with 5 meter (16.5 ft) cable with XLR connector
- Power cable
- User manual
- · Adjustable flying bracket

INSTALLATION

This product must be installed by qualified personnel only.

AC power

AF-1 and AF-2 fans are available in two versions:

- US version: 115 V, 50/60 Hz (for use with 105-115 VAC, 60 Hz power supplies)
- EU version: 230 V, 50/60 Hz (for use with 220-245 VAC, 50 Hz power supplies)

Fans are supplied set up to match local voltage and frequency settings. The factory default setting is shown on the serial number label.

Warning!

For protection from fire and electric shock, AF-1 and AF-2 fans must be grounded (earthed). The power supply must have overload and ground-fault protection.

Check that power cables are undamaged and rated for the current requirements of all connected devices before use.

Check the power supply setting specified on the serial number label before applying power.

Installing a cord cap on the power cable

On EU (230 V, 50/60 Hz) models, the power cable must be fitted with a grounding-type cord cap (earthed mains plug) that fits your power distribution system. Consult a qualified electrician if you have any doubts about proper installation.

Wire	Pin	Marking	Screw color
brown	live	"L"	yellow or brass
blue	neutral	"N"	silver
yellow/green	ground	-	green

Table 1: Cord cap wiring

Following the cord cap manufacturer's instructions, connect the yellow and green wire to ground (earth), the blue wire to neutral and the brown wire to live. The table on page 8 shows some pin identification schemes:

Physical installation

The AF-1 fan may be suspended from a suitable support such as a truss, placed on a horizontal surface resting on its rubber feet, or fastened to a surface.

The AF-2 fan may be suspended from a suitable support such as a truss. If it is installed in the touring frame available as an accessory, it may be placed on a horizontal surface resting on the touring frame's rubber feet.

Both fans can be tilted through 180° and locked in position.

Warning!

The slight vibration of the fan may cause fasteners to loosen. Check all fasteners regularly for tightness, especially when the machine is newly installed.

The AF-1 and AF-2 fans must be positioned well out of reach of the public.

Suspending from a support

Warning!

Block access below the work area and work from a stable platform when installing, servicing or removing the machine.

Always use a secure secondary attachment that can hold at least 10 times the weight of the machine.

Rigging clamps, omega brackets and fasteners are available as accessories from your JEM/Martin dealer. Any quarter-turn fasteners used must be turned a full quarter turn clockwise to lock them (see illustration).



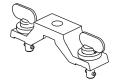
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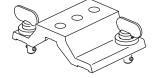
- Verify that any structure used to support the machine can support at least 10 times the total weight of all installed fixtures, clamps, cables, auxiliary equipment, etc.
- 2. Check that all rigging clamps and fasteners are undamaged and can support at least 10 times the machine's weight.
 - AF-1 fan: Bolt a rigging clamp to the machine's flying bracket using a grade 8.8 (minimum) M12 bolt and lock nut, or as recommended

Installation

by the clamp manufacturer, through the 13 mm hole in the center of the mounting bracket.

- AF-2 fan: Two rigging options exist. Either:
 - a) Bolt two rigging clamps to two Martin standard omega brackets (P/N 91602001) using grade 8.8 (minimum) M12 bolts and lock nuts, or as recommended by the clamp manufacturer. Fasten the two omega brackets to the flying bracket or touring frame. This option allows the fan to be flown in line with or at 90° to a truss. or:
 - b) Bolt one rigging clamp to one Martin 250-300 wide omega bracket (P/N 91602000). Fasten the wide omega bracket to the flying bracket or touring frame. This option allows the fan to be flown at any angle relative to the truss.





Martin standard omega bracket: P/N 91602001

Martin 250-300 wide omega bracket: P/N 91602000

- 3. Clamp the fan to a truss or similar support.
- 4. Loop a safety wire that can hold at least 10 times the weight of the machine through/over the support and through the flying bracket or touring frame.
- 5. Loosen the swivel locks and tilt the fan to the desired angle. Turn the swivel locks clockwise to tighten. Check that fan, hardware and safety attachment are secure before applying power.

Placing on a horizontal surface

AF-1 and AF-2 fans can be installed on a level horizontal surface:

- The AF-1 can be placed on a surface resting on its rubber feet.
- The AF-2 can be installed in a touring frame (available as an accessory) and then placed on a surface resting on the frame's rubber feet.

If the machine is to be placed on a horizontal surface:

- Ensure that the surface is level, stable and capable of supporting at least ten times the weight of the machine.
- Secure the machine so that it cannot slide or fall, even if air pressure during full speed operation and vibration are present.
- Eliminate any risk of accidental contact.

INSTALLING CONTROL HARDWARE

The AF-1 and AF-2 fans can be operated either using the JEM multifunction remote control unit supplied with each machine, or via DMX using a DMX control device and serial data link.

The AF-1 can also be operated using a 0 - 10 volt DC analog control device. Up to four AF-1 fans can be linked in remote and 10 V analog operation.

Remote control installation

To connect the remote control unit:

- 1. Power fans off.
- Plug the XLR connector on the remote control cable into the REMOTE IN plug on the connections plate (see "Connections panels" on page 4).
- 3. If linking multiple AF-1 fans, use suitable cable to connect the first fan's analog output to the next fan's analog input, and continue connecting fans output to input.
- 4. Reapply power.

The AF-2 touring frame available as an accessory includes a docking station for the remote control unit (see illustration below). The remote control can be fastened in place using the two thumbscrews provided, and the remote cable wrapped around the brackets.



AF-1 10 V control installation

AF-1 fan speed can be controlled by connecting a suitable analog 0 - 10 volts DC controller via the ANALOG IN connector. Up to four machines can be linked on an analog control link. To create an analog control link:

- Power fans off.
- 2. Connect a suitable cable to the controller's output and the first fan's analog input.
- 3. Use suitable cable to connect the first fan's analog output to the next fan's analog input, and continue connecting fans output to input.
- 4. Reapply power.

DMX installation

Up to 32 devices can be controlled on one DMX data link. Devices must be 'daisy-chained' in one continuous line without branches. More devices can be added and the link can be branched using an optically isolated splitter/amplifier such as the Martin RS-485 Opto-Splitter (P/N 90758060).

DMX cable connection

A reliable DMX data connection requires suitable cable. Standard microphone cable cannot transmit DMX data reliably over long runs. For best results, use shielded cable with at least one twisted pair specifically designed for RS-485 applications. Your Martin dealer can supply suitable high quality cable in various lengths.

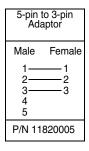
AF-1 and AF-2 fans both connect to a serial DMX data link via XLR connectors:

- The AF-1 fan has three-pin XLR connectors for DMX IN and DMX OUT.
- The AF-2 fan has both three-pin and five-pin XLR connectors for DMX IN and DMX OUT.

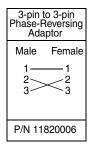
All DMX connectors on AF-1 and AF-2 fans are wired with pin 1 to ground, pin 2 to signal - (cold), and pin 3 to signal + (hot). This is the standard pin assignment for DMX devices.

To connect to devices with reversed polarity, use a phase-reversing adaptor (P/N 11820006).

To connect the AF-1 to a device with a 5-pin output, use a 5-pin male to 3-pin female XLR adaptor cable (P/N 11820005). To connect the AF-1 to a device with a 5-pin input, use a 3-pin male to 5-pin female adaptor cable (P/N 11820004).



3-pin t Ada	o 5-pin ptor
Male	Female
ż	1 2 3 4 5
P/N 11	820004



DMX adaptors: connection pins and polarity

To connect the DMX data link:

- 1. Power all devices off.
- Connect a data cable from the controller's DMX data output to the first device's DMX input
- Connect the DMX output of this device to the DMX input of the next device.
- Continue connecting up to a total of 32 devices in one single line, output to input.
- Terminate the link by inserting a male termination plug (available from your Martin dealer: P/N 91613017) into the data output of the last device. A termination plug is simply an XLR connector with a 120 Ohm, 0.25 W resistor soldered across pins 2 and 3.

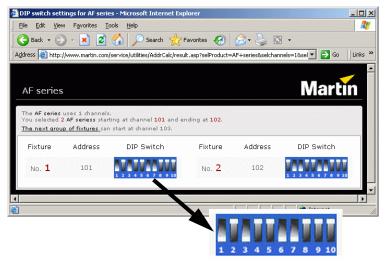
Specifying DMX control channels

AF-1 and AF-2 fans use a single DMX control channel to receive instructions from the controller. This control channel is the DMX address.

To control machines individually, each must have its own unique DMX address. To control identical machines as a group, they can all be given the same DMX address. They will then receive the same instructions and should behave identically. Setting up identical fixtures with the same DMX address can also be a good tool for troubleshooting unexpected behavior.

The DMX address on AF-1 and AF-2 fans can be set to any channel from 1 to 512 using DIP-switch pins 1 - 10:

- 1. Decide on an available DMX address for each machine.
- Look up the DIP-switch settings using the Martin Address Calculator at http://www.martin.dk/service/utilities/AddrCalc/index.asp, or look for the address in the DIP-switch settings table on page 15. For example, to set the DMX address to 101, you need to set DIP-switch pins 1, 3, 6 and 7 to ON, as shown in the illustration below:



- 3. Power the controller and all devices off.
- 4. For each device, set the DMX address by setting DIP-switch pins 1 through 10 to the ON (1) or OFF (0) position as listed in the table on the next page. As an example, channel 101 is highlighted in the table.

DMX address DIP-switch settings

To use this table, first find the DMX address in the main block in the table. Then read the settings for pins 1 - 5 to the left and read the settings for pins 6 - 9 above the address. "0" means OFF and "1" means ON.

For example, to set the DMX address to 101, you need to set DIP-switch pins 1, 3, 6 and 7 to ON, as highlighted in the table.

									Δ												
DIF	swite	•		ting	#9	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	0	= OF	F		#8	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1
	1	10 = 1	1		#7	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1
					#6	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
#1	#2	#3	#4	#5	l .				V												
0	0	0	0	0			32	64	96	128	160	192	224	256	288	320	352	384	416	448	480
1	0	0	0	0		1	33	65	97	129	161	193	225	257	289	321	353	385	417	449	481
0	1	0	0	0		2	34	66	98	130	162	194	226	258	290	322	354	386	418	450	482
1	1	0	0	0		3	35	67	99	131	163	195	227	259	291	323	355	387	419	451	483
0	0	1	0	0		4	36	68	100	132	164	196	228	260	292	324	356	388	420	452	484
\triangleleft	0	1	0	0		5	37	69	101	133	165	197	229	261	293	325	357	389	421	453	485
0	1	1	0	0		6	38	70	102	134	166	198	230	262	294	326	358	390	422	454	486
1	1	1	0	0		7	39	71	103	135	167	199	231	263	295	327	359	391	423	455	487
0	0	0	1	0		8	40	72	104	136	168	200	232	264	296	328	360	392	424	456	488
1	0	0	1	0		9	41	73	105	137	169	201	233	265	297	329	361	393	425	457	489
0	1	0	1	0		10	42	74	106	138	-	202	234	266	298	330	362	394	426	458	490
1	1	0	1	0		11	43	75	107	139		203	235	267	299	331	363	395	427	459	491
0	0	1	1	0		12	44	76	108	140		204	236	268	300	332	364	396	428	460	492
1	0	1	1	0		13	45	77	109	141	-	205	237	269	301	333	365	397	429	461	493
0	1	1	1	0		14	46	78	110	142		206	238	270	302	334			430	462	494
1	1	1	1	0		15	47	79	111	143	175	-	239	271	303	335	367	399	431	463	495
0	0	0	0	1		16	48	80	112	144	176		240	272	304	336	368	400	432	464	496
1	0	0	0	1		17	49	81	113	145	177	209	241	273	305	337	369	401	433	465	497
0	1	0	0	1		18	50	82	114	146	178	_	242	274	306	338	370	402	434	466	498
1	1	0	0	1		19	51	83	115	147	179	211	243	275	307	339	371	403	435	467	499
0	0	1	0	1		20	52	84	116	148	180		244	276	308	340	372	404	436	468	500
1	0	1	0	1		21	53	85	117	149	181	-	245	277	309	341	373	405	437	469	501
0	1	1	0	1		22	54	86	118	150	182		246	278	310	342	374	406	438	470	502
1	1	1	0	1		23	55	87	119	151	183	-	247	279	311	343	375	407	439	471	503
0	0	0	1	1		24	56	88	120	152	184		248	280	312	344	376	408	440	472	504
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0	1	0	1	1		26	58	90	122	154	186		250	282	314	346	378	410	442	474	506
1	1	0	1	1		27	59	91	123	155	187	219	251	283	315	347	379	411	443	475	507
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1	0	1	1	1		29	61	93	125	157	189	221	253	285	317	349	381	413	445	477	509
0	1	1	1	1		30	62	94	126	158	190	222	254	286	318	350	382	414	446	478	510
1	1	1	1	1		31	63	95	127	159	191	223	255	287	319	351	383	415	447	479	511

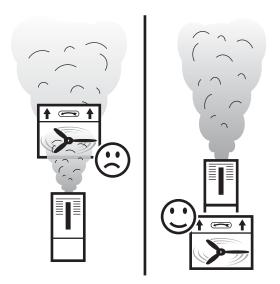
Table 2: DMX address DIP-switch settings

OPERATION

Before powering on, check that the fan is correctly and safely installed.

Using fans with smoke machines

When using a fan in combination with a smoke machine, fog machine or hazer, place the fan behind the machine, as illustrated on the right. Do not place the fan in front of the machine and direct the output from the machine into the fan, as this will cause undesirable residue build-up and the fan blades will degrade the quality of the smoke.

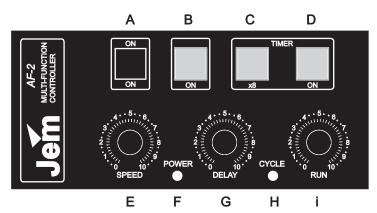


Using fans with smoke ducting

To avoid residue build-up and preserve smoke quality, connect fans to smoke ducting using a Y-shaped arrangement, placing the fan on one arm of the Y and the smoke machine on the other.

Remote control operation

Multifunction controller overview



- A INSTANT FAN OPERATION BUTTON Press to run the fan at the speed set on the fan speed control.
- B STANDBY Puts the fan into standby mode. Must be set to ON to operate in any mode.
- C TIMER VALUE BUTTON When timer is active, adjusts timer values by a factor of 8 (i.e. a 5 second run time becomes 40 seconds and a 10 second delay time becomes 1 minute 20 seconds).
- D TIMER ENGAGE Engages the timer to run the fan according to the timer settings.
- E SPEED Sets fan speed from minimum to maximum.
- F POWER LED Lights when power is on.
- G DELAY TIME CONTROL Sets intervals between operating periods during timer-controlled operation.
- H CYCLE LED Lights during timer-controlled operation.
- I RUN TIME CONTROL Sets duration of operating periods during timer-controlled operation.

The multifunction remote control unit supplied with the AF-1 and AF-2 fans allows instant or timer-controlled fan operation and airflow control. The unit also gives feedback on the status of the machine.

Operation 17

To set timer operation using the remote control:

- 1. Set the desired amount of airflow using the SPEED control
- 2. Set intervals between operating periods by setting the DELAY control to between 1 and 9.
- 3. Set duration of operating periods by setting the RUN control to between 1 and 9.
- 4. Set the STANDBY button to ON
- 5. Set the TIMER ON button to ON.

The CYCLE LED lights when the timer function is active.

To extend timer settings, press the X8 button. This will multiply both RUN and DELAY times by 8.

DMX control

Fan speed on the AF-1 and AF-2 fans can be controlled using a DMX controller.

DMX controller operation

When a fan is powered on, the Data LED next to the DIP-switch will light when a valid DMX signal is received.

Increase the value on the machine's DMX control channel to increase fan speed as shown below:

DMX control channel levels

Level	Percentage	Effect
0-27	0-10%	Fan speed zero.
28-255	11-100%	1 - 100% fan speed.

SERVICE AND MAINTENANCE

Any service procedure not described here should be referred to a qualified technician.

Warning!

Disconnect the fan from power before removing any grills or covers.

Cleaning

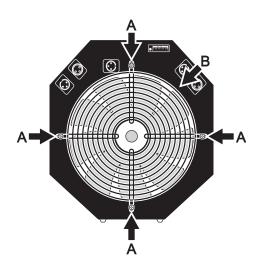
Clean the outside of the fan with a damp cloth only. Do not use solvents.

Periodic cleaning of the fan blades and grills is necessary to maintain peak performance. Cleaning intervals will depend on the operating environment. Inspect the fan regularly for dust and smoke residue buildup, and clean as soon as there is significant dirt buildup on fan blades or at the first signs that airflow through grills may be restricted.

Use a soft brush and vacuum to clean grills and fan blades.

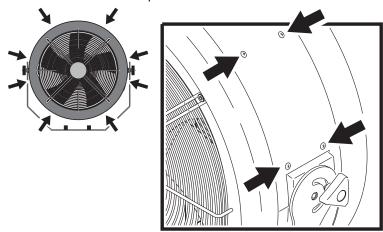
AF-1 cleaning access

- Disconnect the fan from power.
- Remove the four cross-head screws (A) as illustrated, and lift the grill/motor assembly clear of the housing. The motor cable (B) will remain attached to the motor and the housing. Avoid straining the cable.
- After cleaning, replace the grill and screws, ensuring that screws are securely tightened.



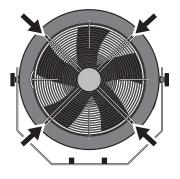
AF-2 cleaning access

1. Disconnect the fan from power.



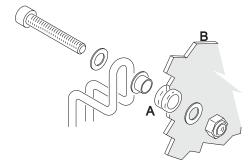
- 2. Remove the 16 cross-head screws from the covers (see illustration above), and remove the covers.
- Reaching into the fan housing for access to the locking nuts, remove the four 6mm Allen screws holding the front grill (see illustration on right), collecting all washers and grommets for reuse.

Note: the front grill is on the opposite side from the fan motor. It should be possible to clean the machine without removing the rear grill that holds the fan motor.



4. After cleaning, replace the screws and front grill. Reassemble exactly as shown in the next illustration, making sure that the rubber

grommets (A) are seated in the fan housing (B). If this assembly sequence is not respected, the AF-2 will be excessively noisy.



Replacing the main fuse

The main fuse can be replaced by the user if necessary. An indication that the main fuse may have blown is that the Power LED (on the AF-1 only) or the Data status LED (on AF-1 and AF-2 fans) does not light when:

- · power is applied, and
- the remote control or a valid DMX signal is present.

Never bypass the fuse or replace it with one of another size or rating.

To replace the main fuse:

- 1. Disconnect the power cable from the fan.
- Use a screwdriver to lever the fuseholder out of the power inlet socket (see illustration).
- Replace the fuse with one of the same rating and type. Fuse details are given on the serial number label and in the Specifications sections of this manual.



4. Replace the fuseholder and reconnect to power.

If the fuse blows repeatedly, disconnect the machine from power and from control equipment and contact your Martin/JEM dealer for service.

TROUBLESHOOTING

Problem	Probable cause(s)	Suggested remedy
	No power	Check power supply and connections
	Remote control not set to Standby	Press Standby button
No light from status LEDs on remote control or fan	Remote control not connected	Check connections
Grian	Fuse blown	Replace fuse with one of same type and rating. If fuse blows repeatedly, consult your JEM/Martin dealer.
Power is applied, but no	Incorrect DMX address	Check DIP-switch settings
fan action using DMX	No DMX termination	Fit termination plug to last device on DMX link
	Grill loose	Check and tighten grill retaining screws
Excessively noisy operation	AF-2: Incorrectly assembled grill mounting hardware	Check, and if necessary reassemble (see "AF-2 cleaning access" on page 20)
Reduced airflow	Grills and/or fan blades dirty	Check and clean
	Low supply voltage	Check AC supply

AF-1 SPECIFICATIONS

Physical Dimensions (L x W x H)	320 x 180 x 360 mm (12.6 x 7.1 x 14.2 in.)
Dimensions in flying bracket (L x W x H)	
Weight including flying bracket	
Construction Housing Finish	
Performance Fan Speed Air Volume 1815 m³per Noperation Time. Noise Level.	nour (64,096 cu.ft.per hour)
Multifunction remote control unit (supplied) DMX control protocol DMX channels DMX addressing 0-10V analog control Analog link Sta Max length of remote cable South (supplied) Supplied	
Thermal Maximum ambient temperature (T _a)	55°C (131°F)
Connections Remote control . 3-pin locking XLR, pin 1 shield, pin DMX 3-pin locking XLR, pin 1 shield 0 - 10 V analog	, pin 2 cold (-), pin 3 hot (+)
Typical power and current US model @115 V, 60 Hz EU model @ 230 V, 50 Hz Measurements taken at nominal voltage. Allow for ± ures.	120 W, 0.5 A

Fuses	
Installation	



Approvals

UL 507, 9 th ed., incl. revisions through 09/24/01 (pending) CSA C22.2 No 113-1984, reaffirmed 1993 (pending)

Included items (US model)

3 m (9.8 ft) IEC power cable 18 AWG with US male connector (UL approved) User manual

JEM multifunction remote control with 5 m (16.4 ft) cable and XLR connector Adjustable flying bracket

Included items (EU model)

2m (6.5 ft) IEC power cable 3 x 1.0mm²

User manual

JEM multifunction remote control with 5 m (16.4 ft) cable and XLR connector Adjustable flying bracket

Accessories

G-clamp	P/N 91602003
Half-coupler clamp	P/N 91602005
DMX termination plug (end of link), XLR male	P/N 91613017
5-pin male to 3-pin female XLR adaptor cable	P/N 11820005

Ordering information

AF-1 DMX Fan (US model: 110/120V, 50/60 Hz)	P/N 92615100
AF-1 DMX Fan (EU model: 220/240 V, 50/60 Hz)	P/N 92615000

Specifications subject to change.

AF-2 SPECIFICATIONS

Physical Dimensions (L x W x H)
Dimensions, flying bracket installed (L x W X H) 700 x 310 x 680 mm
(27.6 x 12.2 x 26.8 in.) Dimensions, touring frame installed (L x W x H)
Weight15.7 kg (34.7 lb.)Weight including flying bracket17.5 kg (38.6 lb.)Weight including touring frame21.4 kg (47.2 lb.)
Construction
Housing Aluminum Finish Black
Performance
Fan Speed 0 - 1400 rpm @ 50 Hz Air Volume 5700 m³ per hour (201,293 cu.ft. per hour) Operation Time Continuous Noise Level 73 dBA
Control and programming JEM Multifunction remote control unit (supplied) DMX control protocol USITT DMX-512 (1990) DMX channels 1 DMX addressing DIP-switch Max length of remote cable 50 metres (5 metres supplied)
JEM Multifunction remote control unit (supplied) DMX control protocol
JEM Multifunction remote control unit (supplied) DMX control protocol
JEM Multifunction remote control unit (supplied) DMX control protocol
JEM Multifunction remote control unit (supplied) DMX control protocol
JEM Multifunction remote control unit (supplied) DMX control protocol

Connections

Remote control. 3	-pin locking XLR, pin 1 shield, pin 2 +15V, pin 3 signal 0-10V
DMX	3-pin locking XLR, pin 1 shield, pin 2 cold (-), pin 3 hot (+)
AC power	

Installation

Orientation	 any
Minimum clearance around machine	 0.1 m (4 in.)



Approvals

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UL 507, 9 th ed., incl. revisions through 09/24/01 (pending) CSA C22.2 No 113-1984, reaffirmed 1993 (pending)

Included items (US model)

3m (9.8 ft) IEC power cable 18AWG with US male connector (UL approved) User manual

JEM multifunction remote control with 5 m (16.4 ft) cable and XLR connector Adjustable flying bracket

Included items (EU model)

2m (6.5 ft) IEC power cable 3 x 1.0mm²

User manual

JEM multifunction remote control with 5 m (16.4 ft) cable and XLR connector Adjustable flying bracket

Accessories

Touring frame, AF-2	P/N 92620006
Wide omega bracket 250-300 with 4 x quarter-turn fasteners	P/N 91602000
Standard omega bracket with 2 x quarter-turn fasteners	P/N 91602001
G-clamp	P/N 91602003
Half-coupler clamp	P/N 91602005
DMX termination plug (end of link), XLR male	P/N 91613017
5-pin male to 3-pin female XLR adaptor cable	P/N 11820005

Ordering information

P/N 9261540	AF-2 DMX Fan (US model: 115 V, 50/60 Hz)
P/N 9261530	AF-2 DMX Fan (EU model: 230 V. 50/60 Hz)

Specifications subject to change.

