# 270249 - PFM Service Manual Addendum

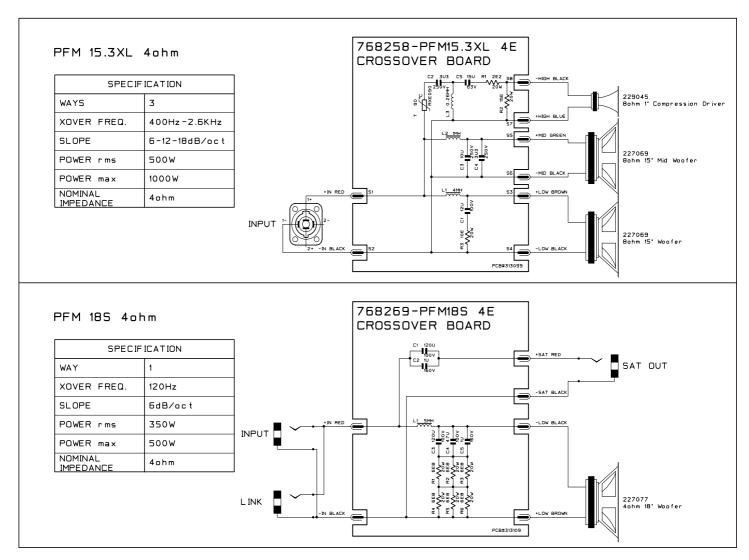
This sheet contains an addendum to PFM Service Manual including:

PFM15.3XL a big three way passive speaker. PFM18S a 18" passive subwoofer speaker. PFM18SA a 18" active subwoofer speaker.

Service note about 350W amplifier module replacing on following subwoofer speakers:

SP SUB SPX SUB PFM15SA PFM18SA

Note: the PFM18SA have the same schematics of PFM15SA at page 13 of 270249 Service Manual, the only difference is the speaker and the 4 resistors value specified further.



### SERVICE NOTE

Regarding 951093/094 SP SUB, 951318/319 SPX SUB, 951177/178 PFM15SA, 951341/342 PFM18SA subwoofer amplified speakers they use the same two 350W amplifier module with only few differences.

These modules are:

737117 350W 230Vac Power Amplifier Module (EU) 737118 350W 115Vac Power Amplifier Module (US) where the only difference is the mains AC supply.

### PLEASE ORDER TO GM ONLY THESE PARTS WHEN YOU REPLACE THE WHOLE AMPLIFIER MODULE.

The few differences between subwoofer speakers are located on 768181 - STEREO CROSSOVER AND CONTROLS BOARD, only few resistors change their values and the following table explain these changes:

SP SUB	SPX SUB	PFM-15SA	PFM-18SA
6K81	12K7	6K81	18K2
115K	88K7	115K	121K
10K0	10K0	10K0	5K00 (two 10K0 paralleled)
10K0	10K0	10K0	5K00 (two 10K0 paralleled)
	6K81 115K 10K0	6K81 12K7 115K 88K7 10K0 10K0	115K 88K7 115K 10K0 10K0 10K0

The 737117 and 737118 modules mount on R21, R22, R32, R33 positions the SP SUB and PFM-15SA resistor values, this means that you can replace the module in these speakers without changing the resistors.

While if you replace a module in SPX SUB or PFM-18SA you have to change these resistors, therefore order to GM also these parts:

Code Qnty	Description	Model Note
042717 1	88K7 1/4W 1% Metalized Film Resistor	SPX SUB sold it instead R22
042614 1	12K7 1/4W 1% Metalized Film Resistor	SPX SUB sold it instead R21
042732 1	121K 1/4W 1% Metalized Film Resistor	PFM-18SA sold it instead R22
042632 1	18K2 1/4W 1% Metalized Film Resistor	PFM-18SA sold it instead R21
042605 2	10K0 1/4W 1% Metalized Film Resistor	PFM-18SA sold each one in parallel to R32 and R33

For schematics and other spare part replacement codes refer to the appropriate service manual.

Spare	ъ.	

Legend
EU=Europe Version at 230Vac
US=US Version at 115Vac

#### Accessories

277387 Owner's Manual (new for all PFM speakers)

#### PFM-15.3XL 4Ohm

768258	Crosso	ver	Filter	Boar	d (	(4E)	(Pcb	#31	309	9)
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The service is made replacing the entire board.

727634 Rear Panel Assembly

778164 \* Cables Assembly

# 141200 \*\* Speakon Socket (NL4MP Neutrik)

667743 \* Panel 120581 \* M3 Bla

M3 Black Self-Locking Nut

120451 \* 3.2x7x0.5 Black Washer

120030 \* M3x12tsp Black Screw

727633 Horn Assembly

347407 \* EWT Gray Elliptical Horn 229045

#### 1" 8ohm Horn Tweeter Speaker 229049 \*\* 1" 80hm Diaphgram for 229045 Tweeter

210267 \*

Gasket between Horn and Box 210211 \* Gasket between Driver and Horn

177123 \* Driver Support

120346 WL4x20tc Black Screw

120106 \* M5x10tsp Black Screw

717082 Speaker Box Assembly

PFM-15.3XL Wooden Speaker Box 430088 \*

340969 \* 37x15mm Rubber Foot

177783 Black Metallic Flange

177328 \* 220x160mm Metal Handle

120664 \* M6 4-tips Lock Nut

120662 \* M5 4-tips Lock Nut

120661 \* M4 4-tips Lock Nut

120417 WL4X35tt Black Screw

120411 WL3.5x20tt Black Screw

120111 \* M6x25tsp Black Screw

### 667742 Speaker Net

### 227069 15" 8ohm Woofer Speaker

210274 Speaker Filler (400gr/m<sup>2</sup> 100x50x4cm)

210273 Speaker Filler (400gr/m<sup>2</sup> 50x50x4cm)

210217 Black Sealer (specify mt)

180662 "Lem" Adhesive Blue Plate

150298 100x2.5mm Nylon Cable Tie

120483 5mm Black Shakeproof Washer 120461 5.3x10x1 Black Washer

120414 WL3.5x35tt Black Screw

120411 WL3.5x20tt Black Screw

120364 WL3.5x12tt Black Screw

120124 M5x30tc Black Screw

120059 M4x25tc Black Screw

### PFM-18S 4Ohm

### 768269 PFM18S 4E Crossover Board (Pcb#313109)

The service is made replacing the entire board.

727637 Rear Panel Assembly

778149 \* Input Cables Assembly (dual jack socket)
140193 \*\* Jack Mono Socket

778148 \* Input Cables Assembly (single jack socket) 140193 \*\* Jack Mono Socket

667716 \* Input Panel PFM Sub I/O Adhesive Label

180805 \* 120541 \* 120541 16x9x1.6 Washer for Jack

717086 Speaker Box Assembly

657246 \* 100x200mm Black Tube

430092 PFM-18S Wooden Speaker Box

37x15mm Rubber Foot 177783 Black Metallic Flange

177328 220x160mm Metal Handle

120664 \* M6 4-tips Lock Nut

120662	*	M5 4-tips Lock Nut
	-1-	

WL4X35tt Black Screw 120417 \*

120411 \* WL3.5x20tt Black Screw

120111 \* M6x25tsp Black Screw

#### 667746 Speaker Net

347204 Jack Socket Cap

#### 227077 18" 4ohm Woofer Speaker

210273 Speaker Filler (400gr/m<sup>2</sup> 50x50x4cm)

210272 Speaker Filler (400gr/m<sup>2</sup> 30x50x4cm)

210217 Black Sealer (specify mt)

210215 Adhesive Rubber Foam 10x1.9mm (Specify mt)

"Lem" Adhesive Blue Plate

120483 5mm Black Shakeproof Washer

120461 5.3x10x1 Black Washer

120411 WL3.5x20tt Black Screw

120364 WL3.5x12tt Black Screw

120124 M5x30tc Black Screw

### PFM-18SA

## 737117 350W 230Vac Power Amplifier Module (EU)

### 737118 350W 115Vac Power Amplifier Module (US)

for a particular spare part code of 737117 and 737118 assemblies refer to 737090 and 737091 (PFM-15SA) at page 15 of 270249 service manual. read also the service note explained above.

717085 Speaker Box Assembly

657246 \* 100x200mm Black Tube

430091 \* PFM-18SA Wooden Speaker Box

340969 \* 37x15mm Rubber Foot

177783 \* Black Metallic Flange

177328 \* 220x160mm Metal Handle

120664 \* M6 4-tips Lock Nut

120662 \* M5 4-tips Lock Nut 120661 \* M4 4-tips Lock Nut

120417 \* WL4X35tt Black Screw

120411 \* WL3.5x20tt Black Screw

120111 \* M6x25tsp Black Screw

# 667746 Speaker Net

659027 White Pot Knob

659026 Orange Pot Knob

### 227077 18" 4ohm Woofer Speaker

210273 Speaker Filler (400gr/m<sup>2</sup> 50x50x4cm) 210272 Speaker Filler (400gr/m² 30x50x4cm)

210217 Black Sealer (specify mt)

210215 Adhesive Rubber Foam 10x1.9mm (Specify mt)

180662 "Lem" Adhesive Blue Plate

120483 5mm Black Shakeproof Washer 120461 5.3x10x1 Black Washer

120364 WL3.5x12tt Black Screw

120124 M5x30tc Black Screw

120059 M4x25tc Black Screw

130297 Mains Cable 10A (EU) 130283 Mains Cable 10A (US)

### Note:

Each spare part is single quantity unless otherwise specified.

Asterisk prefix explanation:

Omitted = First level spare part.

One asterisk = Second level, part of previous listed first level part.

Two asterisk = Third level, part of previous listed second level part.

Any request for not above mentioned part must encompass specific description including:

- 1) Model name,
- 2) Section name,
- 3) Module code,
- 4) Reference name, 5) Quantity number