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The information in this article applies to the following machine models:

- Barudan B2000 Single head Zig-Zag Embroidery machines
- Meistergram models Single head Zig-Zag Embroidery machines

SUMMARY

This page provides a list of all fuses used in the Zig-Zag machines produced under the Meistergram and Barudan Labels. Fuses provide electrical protection to the machines, preventing circuit overload and possible further damage to the machine or possible fire and shock hazard. It is important to replace the fuse with one of the correct rating. This chart shows the location of the fuse, its rating and size, the **Barudan**, "**Bussman**" ("**Buss.**"), "**Littlefuse**" ("**Litt.**"), and "**Radio Shack**" ("**Rad.**") part numbers.

FUSE CHART

M600 M600XL							
LOCATION	FUNCTION	FUSE	SIZE	Barudan	Buss.	Litt.	Rad.
Head Control Card	Needle Position	3A 125v Fast	1/4" x 1-1/4" glass	P530805	AGC 3	312003	27-1009
	Tension Solenoid	2A 125v Fast	1/4" x 1-1/4" glass	P820015	AGC 2	312002	27-1007
Console Mother Bd	9 VDC Unreg. provides 5 VDC for the console	5A 125v Fast	1/4" x 1-1/4" glass	P530830	AGC 5	312005	27-1011 27-1071
Power Supply Chassis	110 VAC Primary	8A 125v Fast	1/4" x 1-1/4" glass	P820017	AGC 8	312008	27-1014
Power Supply C.B.	F1 9 VDC Unregulated	5A 125v Fast	1/4" x 1-1/4" glass	P530830	AGC 5	312005	27-1011 27-1071
	F2 20 VDC, 12VDC	5A 125v Fast	1/4" x 1-1/4" glass	P530830	AGC 5	312005	27-1011 27-1071
	F3 22 VDC, -22VDC	2A 125v Fast	1/4" x 1-1/4" glass	P820015	AGC 2	312002	27-1007
	F4 6.3 VAC (Display)	0.25A 250v Fast	1/4" x 1-1/4" glass	P820014	AGC 1/4	312.25	27-1002
	F5 54 VDC (Display)	0.25A 250v Fast	1/4" x 1-1/4" glass	P820014	AGC 1/4	312.25	27-1002
Relay Box	Motor power	15A 250v Slow	1/4" x 1-1/4" ceram.	P820018	MDA-15	326015	

M700 M700XL								
LOCATION		FUNCTION	FUSE	SIZE	Barudan	Buss.	Litt.	Rad.
P. E. Board	F1	12 VDC	3A 250v Slow	1/4"x1-1/4" glass	P530811	MDL 3	313003	27-1025
	F2	5 VDC	2A 250v Slow	1/4"x1-1/4" glass	P530813	MDL 2	313002	27-1023
	F3	MCB Power	5A 250v Slow	1/4"x1-1/4" glass	P530815	MDL 5	313005	
Table front	F4	CPU Power Supply	1A 250v Slow	1/4"x1-1/4" ceram.	P530817	MDA 1	326001	(27-1021)
	F5	Transformer power (steppers)	8A 250v Slow	1/4"x1-1/4" ceram.	P530825	MDA 8	326008	(27-1030)
	F6	Motor power	5A 250v Slow	1/4"x1-1/4" ceram.	P530818	MDA 5	326005	
	F7	Main power	10A 250v Slow	1/4" x 1-1/4" ceram.	P530823	MDA 10	326010	
M800 M800XL M800XLC								
LOCATION		FUNCTION	FUSE	SIZE	Barudan	Buss.	Litt.	Rad.
Power input		Table power	5A 250v Med	5 x 20mm glass	P530807	GMC 5	233005	(27-1067)
P. J. Board	F1	Transformer power	3A 250v Slow	1/4" x 1-1/4" ceram.	P530821	MDA 3	326003	27-1025
C. E. Board	F1	SBC Board Power	3A 125v Fast	1/4" x 1-1/4" glass	P530805	AGC 3	312003	27-1009
	F2	Tension Solenoid	1A 250v Fast	1/4" x 1-1/4" glass	P530831	AGC 1	312001	27-1005
	F3	Stepper motors	3A 250V Slow	1/4" x 1-1/4" glass	P530833	MDA 3 MDL 3	313003	27-1025
C. E. Bd. Crowbar	F1	Crowbar circuit (steppers)	3A 125v Fast	1/4" x 1-1/4" glass	P530805	AGC 3	312003	27-1009
D. C. Drive	F1	Motor's Dynamic Brake	5A 125v Fast	1/4" x 1-1/4" glass	P530830	AGC 5	312005	27-1011 27-1071
	F2	Motor's Mechanical Brake	1A 250v Fast	1/4" x 1-1/4" glass	P530831	AGC 1	312001	27-1005
	F3	Main motor	4A 250V Slow	1/4" x 1-1/4" glass	P530832	MDA 4 MDL 4	313004	27-1026
900/M2000								
LOCATION		FUNCTION	FUSE	SIZE	Barudan	Buss.	Litt.	Rad.
Power block		Main power	5A 250v Med	5 x 20mm glass	P530834	GMC 5	233005	(27-1067)
Head Interface Bd.	F1	Stitch width, tension solenoid.	2A 250v Med	5 x 20mm glass	P530835	GMC 2	233002	(27-1064)
Stepper Drive Bd.	F1	Stepper motor	3A 250v Med	5 x 20mm glass	P530808	GMC 3	233003	
Servo Drive Bd.	F1	Servo Motor	5A 250v Med	5 x 20mm glass	P530834	GMC 5	233005	(27-1067)
Trimmer Board	F1	Trim solenoid	1A 250 Fast	.177" x .57" glass	P530839		225001	

B2000							
LOCATION	FUNCTION	FUSE	SIZE	Barudan	Buss.	Litt.	Rad.
Power block	Main power	5A 250v Med	5 x 20mm glass	P530834	GMC 5	233005	(27-1067)
Stepper Drive Bd.	F1 Stepper motor	3A 250v Med	5 x 20mm glass	P530808	GMC 3	233003	
Servo Drive Bd.	F1 Servo Motor	5A 250v Med	5 x 20mm glass	P530834	GMC 5	233005	(27-1067)
Head/Trimmer Bd	F2 Width & trim motor	2A 250v slow	.177" x .57" glass	P530840		229002	
	F3 Solenoids	2A 250v slow	.177" x .57" glass	P530840		229002	

FUSE TYPES

Type	Image
<p><u>1/4" x 1-1/4" glass</u></p> <p>This is the most common size fuse, and can be either fast or slow blow.</p>	
<p><u>1/4" x 1-1/4" ceramic</u></p> <p>This fuse is used for higher current circuits. The white ceramic body prevents visually inspecting the fuse to see if it has blown.</p>	
<p><u>5 x 20mm glass</u></p> <p>This is a slightly smaller fuse used on newer machines.</p>	
<p><u>.177" x .57" glass</u></p> <p>This fuse is especially small, and is used on boards where space is limited.</p>	

