



Flaming River Industries, Inc.
 800 Poertner Drive Berea, OH 44017
 1-800-648-8022 | www.flamingriver.com

The Big Switch Product Specifications Sheet

			
Description	The Big Switch	The Big Switch – No Mounting Bracket	The Big Switch with Extension Handle
Part No.	FR1003	FR1003-1	FR1003-4
Warranty	3 Years	3 Years	3 Years
Voltage	12V/24V	12V/24V	12V/24V
Max Continuous Current	250 Amps	250 Amps	250 Amps
Max Surge Current	2500 Amps (5 seconds)	2500 Amps (5 seconds)	2500 Amps (5 seconds)
Environmental Protection Rating	IP65	IP65	IP65
Waterproof	Yes	Yes	Yes
Operating Temperature Range	-40°C to +80°C -40°F to +176°F	-40°C to +80°C -40°F to +176°F	-40°C to +80°C -40°F to +176°F
Contact Terminals	Silver Plated Copper	Silver Plated Copper	Silver Plated Copper
Contact Hardware	Nickel Plated Brass	Nickel Plated Brass	Nickel Plated Brass
Stud Diameter	M10	M10	M10
Available Stud Length	0.775" (approx. 25/32 in)	0.775" (approx. 25/32 in)	0.775" (approx. 25/32 in)
Max Tightening Torque	11-13 ft·lbs	11-13 ft·lbs	11-13 ft·lbs
LED ON/OFF Indicator	No	No	No
Lock-Out Capability	No	No	No
Replacement Key Part No.	N/A	N/A	N/A
Mounting Bracket Included	Yes	No	Yes
Mounting Bracket Part No.	FR1007	FR1007	FR1007
Terminal Covers Included	No	No	No
Terminal Covers Part No.	FR1003TM (pair)	FR1003TM (pair)	FR1003TM (pair)
Extension Handle/Lever	No	No	Yes
Extension Part No.	N/A	N/A	FR1003-EXT
Additional Notes	Approved for NHRA/IHRA competition use	Approved for NHRA/IHRA competition use	Approved for NHRA/IHRA competition use

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Description	The Big Switch with Lever Kit	The Big Switch with Lock-Out	The Big Switch with Lock-Out and LED Indicator
Part No.	FR1003-2	FR1044 (supersedes FR1005)	FR1044LED (supersedes FR1005LED)
Warranty	3 Years	3 Years	3 Years
Voltage	12V/24V	12V/24V	12V/24V
Max Continuous Current	250 Amps	250 Amps	250 Amps
Max Surge Current	2500 Amps (5 seconds)	2500 Amps (5 seconds)	2500 Amps (5 seconds)
Environmental Protection Rating	IP65	IP65	IP65
Waterproof	Yes	Yes	Yes
Operating Temperature Range	-40°C to +80°C -40°F to +176°F	-40°C to +80°C -40°F to +176°F	-40°C to +80°C -40°F to +176°F
Contact Terminals	Silver Plated Copper	Silver Plated Copper	Silver Plated Copper
Contact Hardware	Nickel Plated Brass	Nickel Plated Brass	Nickel Plated Brass
Stud Diameter	M10	M10	M10
Available Stud Length	0.775" (approx. 25/32 in)	0.95" (approx. 61/64 in)	0.95" (approx. 61/64 in)
Max Tightening Torque	11-13 ft·lbs	11-13 ft·lbs	11-13 ft·lbs
LED ON/OFF Indicator	No	No	Yes
Lock-Out Capability	No	Yes – Padlock	Yes - Padlock
Replacement Key Part No.	N/A	N/A	N/A
Mounting Bracket Included	Yes	Yes	Yes
Mounting Bracket Part No.	FR1007	FR1008	FR1008LED
Terminal Covers Included	No	No	No
Terminal Covers Part No.	FR1003TM (pair)	FR1014TM (pair)	FR1014TM (pair)
Extension Handle/Lever	Yes	No	No
Extension Part No.	FR1006	N/A	N/A
Additional Notes	Approved for NHRA/IHRA competition use	Meets OSHA Lock-Out/Tag-Out Regulation 1910.147	Meets OSHA Lock-Out/Tag-Out Regulation 1910.147

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Description	The Big Switch with Removable Key	Combination Magneto and Battery Kill Switch
Part No.	FR1009	FR1010
Warranty	3 Years	3 Years
Voltage	12V/24V	12V/24V
Max Continuous Current	250 Amps	250 Amps
Max Surge Current	2500 Amps (5 seconds)	2500 Amps (5 seconds)
Environmental Protection Rating	IP65	IP65
Waterproof	Yes	Yes
Operating Temperature Range	-40°C to +80°C -40°F to +176°F	-40°C to +80°C -40°F to +176°F
Contact Terminals	Silver Plated Copper	Silver Plated Copper
Contact Hardware	Nickel Plated Brass	Nickel Plated Brass
Stud Diameter	M10	M10
Available Stud Length	0.775" (approx. 25/32 in)	0.775" (approx. 25/32 in)
Max Tightening Torque	11-13 ft·lbs	11-13 ft·lbs
LED ON/OFF Indicator	No	No
Lock-Out Capability	Yes – Removable Key	No
Replacement Key Part No.	FR1009K	N/A
Mounting Bracket Included	Yes	Yes
Mounting Bracket Part No.	FR1007	FR1007
Terminal Covers Included	No	No
Terminal Covers Part No.	FR1003TM (pair)	FR1003TM (pair)
Extension Handle/Lever	No	No
Extension Part No.	N/A	N/A
Additional Notes	N/A	Approved for NHRA/IHRA competition use

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HD Amp Switch Product Specifications Sheet

		
Description	HD Amp Switch with Terminal Covers and Lock-Out Bracket	HD Amp Switch with LED Indicator, Terminal Covers, and Lock-Out Bracket
Part No.	FR1043	FR1043LED
Warranty	3 Years	3 Years
Voltage	12V/24V	12V/24V
Max Continuous Current	350 Amps	350 Amps
Max Surge Current	2500 Amps (5 seconds)	2500 Amps (5 seconds)
Environmental Protection Rating	IP65	IP65
Waterproof	Yes	Yes
Operating Temperature Range	-40°C to +80°C -40°F to +176°F	-40°C to +80°C -40°F to +176°F
Contact Terminals	Silver Plated Copper	Silver Plated Copper
Contact Hardware	Stainless Steel	Stainless Steel
Stud Diameter	M12	M12
Available Stud Length	1.50"	1.50"
Max Tightening Torque	11-13 ft·lbs	11-13 ft·lbs
LED ON/OFF Indicator	No	Yes
Lock-Out Capability	Yes - Padlock	Yes – Padlock
Replacement Key Part No.	N/A	N/A
Mounting Bracket Included	Yes	Yes
Mounting Bracket Part No.	FR1008	FR1008LED
Terminal Covers Included	Yes	Yes
Terminal Covers Part No.	FR1014TM (pair)	FR1014TM (pair)
Extension Handle/Lever	No	No
Extension Part No.	N/A	N/A
Additional Notes	Ideal for Class 8 Vehicles Increased insulation for H Class Rating	Ideal for Class 8 Vehicles Increased insulation for H Class Rating

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The Little Switch Product Specifications Sheet



		
Description	The Little Switch – With Mounting Bracket	The Little Switch – No Mounting Bracket
Part No.	FR1002	FR1002-1
Warranty	3 Years	3 Years
Voltage	6V/12V/24V	6V/12V/24V
Max Continuous Current	100 Amps	100 Amps
Max Surge Current	500 Amps (10 seconds)	500 Amps (10 seconds)
Environmental Protection Rating	IP4X	IP4X
Operating Temperature Range	-40°C to +50°C -40°F to +122°F	-40°C to +50°C -40°F to +122°F
Contact Terminals	Copper	Copper
Contact Hardware	Zinc Plated Steel	Zinc Plated Steel
Stud Diameter	M8	M8
Available Stud Length	0.50"	0.50"
Max Tightening Torque	4.43 ft·lbs / 6 N·m	4.43 ft·lbs / 6 N·m
LED ON/OFF Indicator	No	No
Lock-Out Capability	Yes – Removable Key	Yes – Removable Key
Replacement Key Part No.	FR1002K	FR1002K
Mounting Bracket Included	Yes	No
Mounting Bracket Part No.	FR1004	FR1004
Protective Cover Included	Yes - Protective Rubber Boot	Yes - Protective Rubber Boot
Protective Cover Part No.	FR1002BT	FRE1002BT
Extension Handle/Lever	No	No
Extension Part No.	N/A	N/A
Additional Notes	Approved for IMSA, ARCA, and SCCA competition use	Approved for IMSA, ARCA, and SCCA competition use

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Electro-Wizard Automatic Battery Disconnect Product Specifications Sheet

			
Description	12V Electro-Wizard (Grounded Solenoid)	12V Electro-Wizard (Insulated Solenoid with Switch Cover)	24V Electro-Wizard (Insulated Solenoid with Switch Cover)
Part No.	FR1051	FR1052	FR1054
Warranty	1 Year	1 Year	1 Year
Voltage	12V	12V	24V
Max Continuous Current	250 Amps (74°F/23°C)	250 Amps (74°F/23°C)	250 Amps (74°F/23°C)
Max Surge Current	2500 Amps (3 seconds)	2500 Amps (3 seconds)	2500 Amps (3 seconds)
Environmental Protection Rating	IP65	IP65	IP65
Waterproof	Yes	Yes	Yes
Corrosion Resistance	Salt spray test: 300h	Salt spray test: 300h	Salt spray test: 300h
Terminal Length	0.89" (approx. 57/64 in)	0.89" (approx. 57/64 in)	0.89" (approx. 57/64 in)
Terminal Diameter	M10	M10	M10
Tightening Torque (M10 Nuts)	14.75 ft·lbs / 20 NM	14.75 ft·lbs / 20 NM	14.75 ft·lbs / 20 NM
Tightening Torque (M5 Nuts)	1.18 ft·lbs / 1.6 NM	1.18 ft·lbs / 1.6 NM	1.18 ft·lbs / 1.6 NM
Operating Temperature Range	-40°C to +85°C -40°F to +185°F	-40°C to +85°C -40°F to +185°F	-40°C to +85°C -40°F to +185°F
Internal Contacts	Silver Plated Copper	Silver Plated Copper	Silver Plated Copper
Contact Terminals	Tin Plated Brass	Tin Plated Brass	Tin Plated Brass
Contact Hardware	Brass	Brass	Brass
Automatic Shut-Off	Yes	Yes	Yes
Manual Emergency Shut-Off	No	No	No
Time Delay	Yes w/ Timer Relay, 3 minute and 6 minute available (not included)	Yes w/ Timer Relay, 3 minute and 6 minute available (not included)	Yes w/ Timer Relay
Battery Disconnect Mode	Positive Only	Positive and Negative	Positive and Negative
Accessories	FR1053 (3 min timer) FR1055 (6 min timer)	FR1053 (3 min timer) FR1055 (6 min timer)	Timer Relays Available Upon Request
Terminal Covers Included	Yes	Yes	Yes

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WatchDog Automatic Battery Disconnect Product Specifications Sheet

Description	300 Amp WatchDog Battery Disconnect
Part No.	FR1057
Warranty	1 Year
Voltage	12V/24V
Max Continuous Current	300 Amps
Max Surge Current	1,000 Amps (30 seconds) 2,000 Amps (5 seconds)
Environmental Protection Rating	IP67 and IP69K (water pressure cleaning)
Waterproof	Yes
Corrosion Resistance	Salt Spray Test: 300h
Terminal Length	0.670" (approx. 43/64 in)
Terminal Diameter	M10
Tightening Torque	14 ft·lbs (+/- 1 ft·lbs)
Operating Temperature Range	-40°C to +85°C -40°F to +185°F
Internal Contacts	Silver Plated Copper with Silver Pads
Contact Terminals	Silver Plated Copper with Silver Pads
Contact Hardware	Nickel Plated Brass
Automatic Shut-Off	Yes
Manual Emergency Shut-Off	Yes
Time Delay	Yes, programmable for 30sec, 1min, 3,min, or 6min disconnection delay
Battery Disconnect Mode	Positive and Negative
Terminal Covers Included	Yes

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Combination Battery and Alternator Kill Switch Product Specifications Sheet


	
Description	Combination Battery and Alternator Kill Switch
Part No.	FR1013
Warranty	3 Years
Voltage	12V/24V
Max Continuous Current	150 Amps (battery)
Max Surge Current	1,200 Amps (5 seconds)
Max Current for Auxiliary Terminals	5 Amps
Environmental Protection Rating	IP65
Alternator	120 Amps
Waterproof	Yes
Operating Temperature Range	-30°C to +60°C -22°F to +140°F
Contact Terminals	Silver Plated Copper
Contact Hardware	Brass
Stud Diameter	M10
Available Stud Length	0.813" (approx. 13/16 in)
Max Tightening Torque	11-13 ft·lbs
LED ON/OFF Indicator	No
Lock-Out Capability	No
Mounting Bracket Included	No
Protective Cover Included	No
Extension Handle/Lever	No
Additional Notes	Approved for IHRA, NHRA, and SCCA competition use

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Dual Battery Disconnect Switch Product Specifications Sheet

	
Description	Dual Battery Disconnect Switch
Part No.	FR1050
Warranty	3 Years
Voltage	12V and 24V
Max Continuous Current	300 Amps
Max Surge Current	1,000 Amps (5 seconds)
Environmental Protection Rating	IP54
Operating Temperature Range	-40°C to +50°C -40°F to +122°F
Internal Contacts:	Silver Plated Copper
Contact Terminals	Copper
Contact Hardware	Brass
Stud Diameter	M10
Available Stud Length	0.5" (1/2 in)
Tightening Torque	11-13 ft·lbs
Switch Modes	4 Modes: #1 On, #2 On, Both On, Both Off
LED ON/OFF Indicator	No
Lock-Out Capability	No
Mounting Bracket Included	No
Protective Cover Included	No
Extension Handle/Lever	No

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