

Simply Safe +
Simply Green =
Safe & Green



PRICE LIST

Valid from 03/2014



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Contents

Low Voltage Operators

The logo for FAAC, featuring the letters 'FAAC' in a bold, stylized, black font. The 'F' and 'A' are connected, and the 'A' has a unique shape with a diagonal stroke. The 'C' is a simple, rounded letter. The logo is positioned in the lower-left quadrant of the page, partially overlapping a large, light gray, stepped graphic element that extends from the left edge of the page.

FAAC

E024U | 24V Control Board for Swing Gate Operator

The New E024U Control Board is designed to be used with the following FAAC Swing Gate Operators:

S418 Electro-mechanical Operator

S450H Hydraulic Operator

S800H Hydraulic in Ground Operator

390 Electro-mechanical Operator

415 Electro-mechanical Operator

770 Electro-mechanical in Ground Operator



E024U

Features

- . UL325 - UL991 safety standard compliant
- . Powerful and efficient Power Supply
- . Easy programming with trimmers and dip switches
- . One pushbutton automatic self learning
- . Self resetting fuses
- . Stand by mode for efficient power use
- . Built in battery backup
- . Leaf opening mode selectable: with or without leaf delay.
- . Adjustable Speed



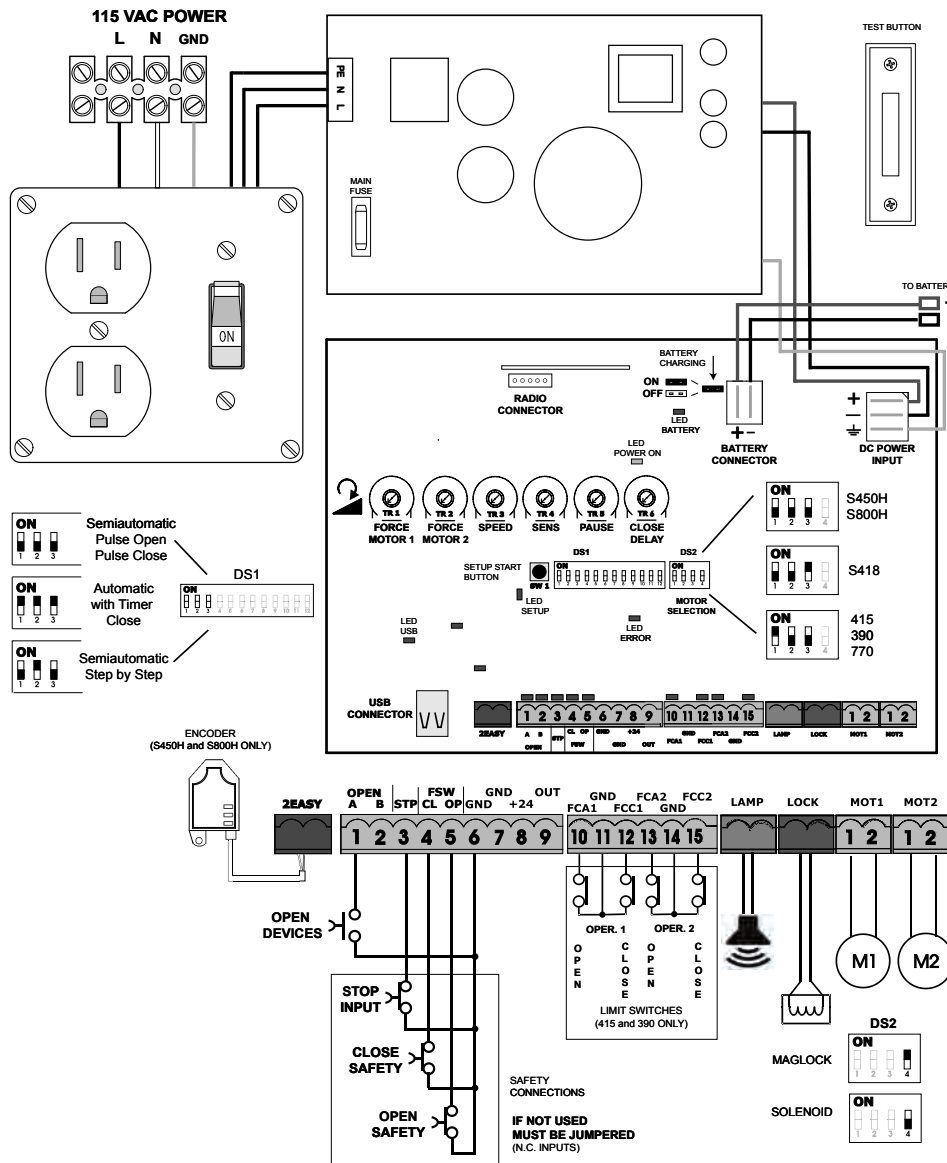
Technical Specifications

AC input ratings:	115V - 60Hz
Input Power	400W Max - 4W Stand By
Motor Output Current	7A
Accessory Power	24 Vdc 500 mA
Operating Temperature	-4°F to 131°F (-20°C to 55°C)

E024U | 24V Control Board for Swing Gate Operator

Model	Description	Shipping Wt (approx)	Voltage	Part Number	Price
E024U Power Supply	Power Supply for E024U	2 lbs. (.9 kg)	24vdc	750007	\$156.00
E024U Control Panel	24vdc (replacement only)	2 lbs. (.9 kg)	24vdc	202025	\$541.00
3350 Enclosure	Enclosure - 24V 14x16	16 lbs. (7 kg)	24vdc	3350	\$563.00
Enclosure Kit E024U	Enclosure Kit E024U includes E024U Control Board, Power Supply, Battery Cable.			-3350	\$1,281.00
E024U Loop Detector Rack	E024U Loop Detector Interface (free exit, safety & shadow loop bases).	1 lbs. (.45kg)		2670	\$120.00
425D to E0244 Upgrade Kit	Kit to upgrade from 425D board to E024U board: Includes: Backplate, E024U board, Power Supply, Battery Cable			-3351	\$860.00
425D to E024U Upgrade Kit W/Batteries	Kit to upgrade from 425D board to E024U board: Includes: Backplate, E024U board, Power Supply, Battery Cable, Batteries			-3351B	\$940.00

E024U Control Board Diagram



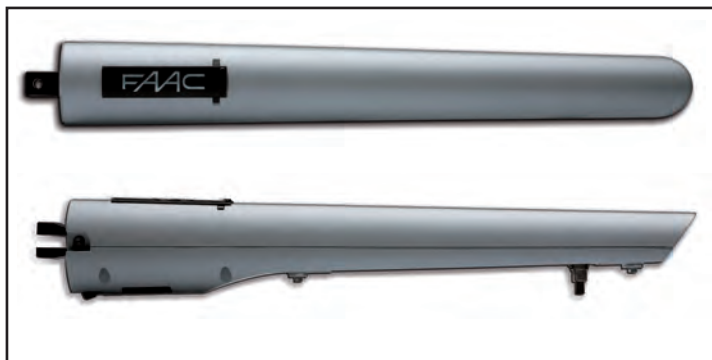
* If you have any questions regarding your application, please call FAAC's technical department at 1-866-925-3222 or 1-800-221-8278.

Model S418 | Electromechanical Swing Gate Operator

The Model S418 was designed to provide power and versatility to an economical residential swing gate operator.

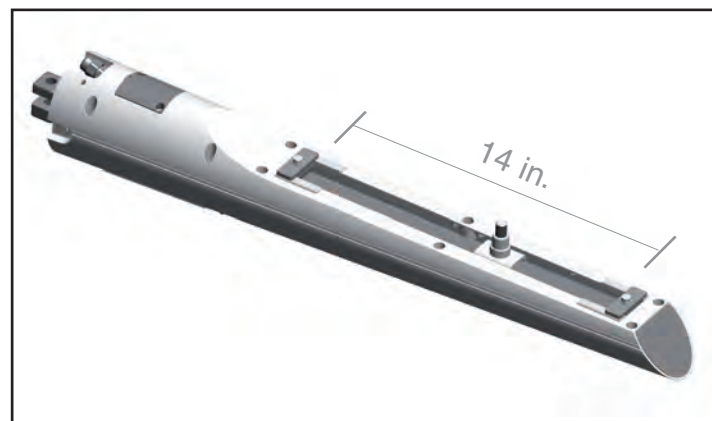
Features

- Sleek design
- Positive stops built in
- Battery Back Up
- Residential & light commercial use
- New control board with anti-crushing system and virtual encoder for inversion of obstacle.



Model S418

Batteries are for emergency back-up only; not needed to run system under normal conditions.



14" Stroke



Specifications	
Duty cycle	100%
Maximum gate swing	110 degrees
90 degree opening time	13 seconds
Maximum weight per gate leaf	500 pounds (230 kg)
Maximum length per gate leaf	12 feet (3.7 m)
Approx. operating temperature range	-4°F to 131°F (-20°C to 55°C)
Voltage	Primary: 115 VAC Secondary: 24vdc
Power Consumption	35 W
Current Consumption	1.5 A
Effective Stroke	14 in. (35 cm) 16 in. (400 mm) w/o mech. stops

NOTE: Operator specifications are approximate. Environmental factors can change the performance of the operator.

Model S418 | Electromechanical Swing Gate Operator

Model	Package Includes	Shipping Wt <small>(approx)</small>	Voltage	Part Number	Price
S418 Basic Single Kit	Operator, E024U Control Board, 14x16 encl., power supply and batteries	48 lbs (21.8kg)	24vdc	104301.5+	\$1,612

To make the above a master/slave (bi-parting) system use the following:

Model	Package Includes	Shipping Wt <small>(approx)</small>	Voltage	Part Number	Price
S418 Operator Only	Use to make the single kit into a master/slave (bi-parting) kit; or use to order replacement operator. Order necessary length needed for system of two wire cable at no charge; maximum 40 ft per system; part number is 2197	18 lbs (8.2kg)	24vdc	10430115	\$650

To complete your gate system installation, or for replacement purposes, the following peripherals can be ordered:

Model	Description	Shipping Wt <small>(approx)</small>	Voltage	Part Number	Price
Battery (8 amp hour)	Two batteries are needed (replacement only)	6 lbs. (2.7 kg)	12vdc	3540	\$66
Transmitter	FAAC single button	1 lbs. (.45 kg)		1tm418ds	\$45
Transmitter	FAAC two button	1 lbs. (.45 kg)		787317	\$53
Photobeam	Directional with diagonal alignment; required for UL-325 compliance	1 lbs. (.45 kg)		785163	\$244
Receiver	FAAC single channel	1 lbs. (.45 kg)		1rp418ds	\$79
Two Wire cable	For use with master or master/slave system; (included with basic kit, see above)	N/A		2197	\$3.00/ft
E024U Power Supply	Power Supply for E024U	2 lbs. (.9 kg)	24vdc	750007	\$156
E024U Control Panel	24vdc (replacement only)	2 lbs. (.9 kg)	24vdc	202025	\$541
Transmitter	4 Channel transmitter XT 4433 RC			787453	\$23
Receiver	Receiver 433 RC Plug In			787741	\$42
3350 Enclosure	Enclosure 24V 16x14	16 lbs (7 kg)	24vdc	3350	\$563
E024U Loop Detector Rack (Use W/PLD 1500)	E024U Loop Detector Interface (free exit, safety & shadow loop bases).	1 lb (.45 kg)		2670	\$120
E024U Plug In Loop Detector	10 Pin Plug In detector For E024U Loop Detector Interface			PLD1500	\$177
FAAC Tuned Antenna Kit	Tuned Antenna Kit			412003	\$88

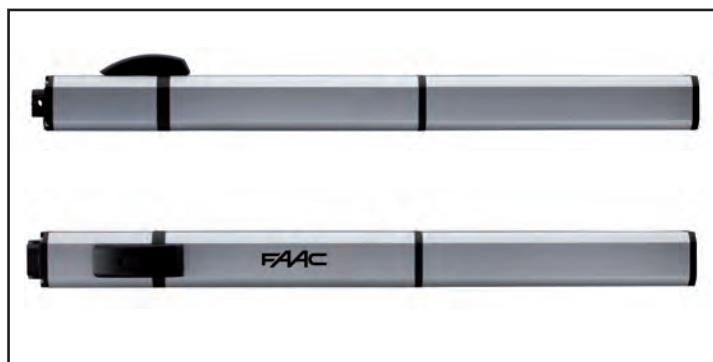
* If you have any questions regarding your application, please call FAAC's technical department at 1-866-925-3222 or 1-800-221-8278.

Model S450H | Hydraulic 24V Swing Gate Operator

The Model S450H was designed to provide power and versatility to a hydraulic residential and commercial swing operator.

Features

- . Sleek design
- . Positive stops included
- . Battery Back Up
- . Multi-position adjustable bracket
- . Encoder to control operator position
- . Hybrid Technology that combines advantages of 24V and hydraulic technology
- . 12 1/4" Stroke



Model S450H

Batteries are for emergency back-up only; not needed to run system under normal conditions.



Specifications	
Duty cycle	100%
Maximum gate swing	110 degrees
90 degree opening time	13 seconds
Maximum weight per gate leaf	1100 pounds (500 kg)
Maximum length per gate leaf	14 feet (4.3 m)
Approx. operating temperature range	-40°F to 131°F (-40°C to 55°C)
Voltage	Primary: 115 VAC Secondary: 24vdc
Power Consumption	60 W
Current Consumption	7 A
Effective Stroke	12 1/4 in. (311 mm)

NOTE: Operator specifications are approximate. Environmental factors can change the performance of the operator.

Model S450H | Hydraulic 24V Swing Gate Operator

Model	Package Includes	Shipping Wt <small>(approx)</small>	Voltage	Part Number	Price
S450H CBAC 24V Basic Single Kit	S450H CBAC Operator, E024U Control Board, 14x16 encl., Power Supply and batteries	58lbs (26.4kg)	24vdc	104100.5+	\$2,704
S450H SB 24V Basic Single Kit	S450H SB Operator, E024U Control Board, 14x16 encl., Power Supply and batteries	58lbs (26.4kg)	24vdc	104101.5+	\$2,704

To make the above a master/slave (bi-parting) system use the following:

Model	Package Includes	Shipping Wt <small>(approx)</small>	Voltage	Part Number	Price
S450H CBAC 24V Operator Only	Use to make the single kit into a master/slave (bi-parting) kit; or use to order replacement operator. Order necessary length needed for system of two wire cable at no charge; maximum 40 ft per system. Part # 2197 for power and two wire cable Part #2193 for the encoder	28lbs (12.2kg)	24vdc	10410015	\$1,664
S450H SB 24V Operator Only	Use to make the single kit into a master/slave (bi-parting) kit; or use to order replacement operator. Order necessary length needed for system of two wire cable at no charge; maximum 40 ft per system. Part # 2197 for power and two wire cable Part #2193 for the encoder	28lbs (12.2kg)	24vdc	10410115	\$1,664

To complete your gate system installation, or for replacement purposes, the following peripherals can be ordered:

Model	Description	Shipping Wt <small>(approx)</small>	Voltage	Part Number	Price
Battery (8 amp hour)	Two batteries are needed (replacement only)	6 lbs. (2.7 kg)	12vdc	3540	\$66
Transmitter	FAAC single button dip switch	1 lbs. (.45 kg)		1tm418ds	\$45
Transmitter	FAAC two button dip switch	1 lbs. (.45 kg)		787317	\$53
Photobeam	Directional with diagonal alignment; required for UL-325 compliance	1 lbs. (.45 kg)		785163	\$244
Receiver	FAAC single channel dip switch	1 lbs. (.45 kg)		1rp418ds	\$79
Two Wire cable	For use with master or master/slave system; (included with basic kit, see above)	N/A		2197	\$3.00/ft
E024U Power Supply	Power Supply for E024U		24vdc	750007	\$156
E024U Control Panel	24vdc (replacement only)	2 lbs. (.9 kg)	24vdc	202025	\$541
Transmitter	4 Channel transmitter XT 4433 RC			787453	\$23
Receiver	Receiver 433 RC Plug In			787741	\$42
3350 Enclosure	Enclosure 24V 16x14	16 lbs (7 kg)	24vdc	3350	\$563
E024U Loop Detector Rack (Use W/PLD 1500)	E024U Loop Detector Interface (free exit, safety & shadow loop bases).	1 lb (.45 kg)		2670	\$120
E024U Plug In Loop Detector	10 Pin Plug In Detector For E)24U Loop Detector Interface			PLD1500	\$177
FAAC Tuned Antenna Kit	Tuned Antenna Kit			412003	\$88

* If you have any questions regarding your application, please call FAAC's technical department at 1-866-925-3222 or 1-800-221-8278.

Model S800H | Hydraulic 24V Swing Gate Operator

The Model S800H was designed for in-ground installation so as not to detract from the appearance of the gate.

Features

- . Invisible installation
- . Minimized “pinch points”
- . Reverse on contact
- . Operates even in case of power failure (subject to battery condition)
- . Slow down “soft stop”
- . Optional 110° or 180° opening kits available
- . Built-in positive stops (minimum leaf opening of 135° for 180° version).
- . Magnetic encoder
- . Stainless steel load bearing box available



Model S800H in-ground



Specifications

Duty cycle	100%
Maximum gate swing	110 degrees (180 degrees)
90 degree opening time	13 seconds
Maximum weight per gate leaf	1760 pounds (800 kg)
Maximum length per gate leaf	13 feet (4 m)
Approx. operating temperature range	-40°F to 13°F (-40°C to +55°C)
Voltage	Primary: 115 VAC Secondary: 24vdc
Power consumption	60 W

NOTE: Operator specifications are approximate. Environmental factors can change the performance of the operator.

Model S800H | Hydraulic 24V Swing Gate Operator

Model	Package Includes	Shipping Wt (approx.)	Voltage	Part Number	Price
S800H 100° Basic Single Kit	Operator, support box, E024U control panel, 14x16 in. enclosure, steel load bearing box, power supply, manual release, batteries, splined shaft	110lbs (50kg)	24vdc	108710.5+	\$3,952
S800H 180° Basic Single Kit	Operator, support box, E024U control panel, 14x16 in. enclosure, steel load bearing box, power supply, manual release, batteries, splined shaft	120lbs (54.5kg)	24vdc	108712.5+	\$4,212

Model	Package Includes	Shipping Wt (approx.)	Voltage	Part Number	Price
S800H 100° Basic Single Kit Stainless Steel	Operator, support box, E024U control panel, 14x16 in. enclosure, stainless steel load bearing box, power supply, manual release, batteries, splined shaft	110lbs (50kg)	24vdc	108710.5SS+	\$4,378
S800H 180° Basic Single Kit Stainless Steel	Operator, support box, E024U control panel, 14x16 in. enclosure, stainless steel load bearing box, power supply, manual release, batteries, splined shaft	120lbs (54.5kg)	24vdc	108712.5SS+	\$4,638

To make the above a master/slave (bi-parting) system use the following:

Model	Package Includes	Shipping Wt (approx.)	Voltage	Part Number	Price
Operator Only S800H	Use to make the single kit into a master/slave (bi-parting) kit; or use to order replacement operator. Order necessary length needed for system of two wire cable at no charge; maximum 40 ft per system. Part # 2197 of power and two wire cable Part #2193 for the encoder	29lbs (13kg)	24vdc	10871015 100°	\$2,392
		37lbs (17kg)		10871215 180°	\$2,558
Load Bearing Box Steel	Needed with operator for bi-parting system	40lbs (18.2kg)		490112	\$562
Load Bearing Box Stainless Steel	Needed with operator for bi-parting system	40lbs (18.2kg)		490113	\$988
Operator Only S800H SBW (wind version) call us for more info and ordering!	Use to make the single kit into a master/slave (bi-parting) kit; or use to order replacement operator. Order necessary length needed for system of two wire cable at no charge; maximum 40 ft per system. Part # 2197 of power and two wire cable Part #2193 for the encoder		24vdc	10871415 100°	\$2,392
				10871515 180°	\$2,558

To complete your gate system installation, or for replacement purposes, the following peripherals can be ordered:

Model	Description	Shipping Wt	Voltage (approx.)	Part Number	Price
Battery (8 amp hour)	Two batteries are needed (replacement only)	6 lbs. (2.7 kg)	12vdc	3540	\$66
Transmitter	FAAC single button	1 lb. (.45 kg)		1m418ds	\$45
Transmitter	FAAC two button	1 lb. (.45 kg)		787317	\$53
Photobeam	Directional with diagonal alignment; required for UL-325 compliance	1 lb. (.45 kg)		785163	\$244
Receiver	FAAC single channel	1 lb. (.45 kg)		1RP418ds	\$79
Two Wire Cable	For use in Master/Slave Systems	1 lb. (.45 kg)		2197	\$3.00/ft
Splined Shaft	For S800H			390972	\$182
Manual Release	Hydraulic			390035	\$224
Power Supply for E024U	Power Supply for E024U			750007	\$156
E024U Control Board	24vdc (replacement only)	2 lb. (.9 kg)	24vdc	202025	\$541
Transmitter	4 Channel transmitter XT 4433 RC			787453	\$23
Receiver	Receiver 433 RC Plug In			787741	\$42
3350 Enclosure	Enclosure 24V 16x14	16 lbs. (7 kg)	24vdc	3350	\$563
E024U Loop Detector Rack (Use W/PLD 1500)	E024U Loop Detector Interface (free exit, safety & shadow loop bases).	1 lb (.45 kg)		2670	\$120
E024U Plug In Loop Detector	10 Pin Plug In Detector For E024U Loop Detector Interface			PLD1500	\$177
FAAC Tuned Antenna Kit	Tuned Antenna Kit			412003	\$88
S800H Extension Arm	Extension Arm For Alignment Problems			2148	\$116

Model 390

Low Voltage Swing Gate Operator



- Designed for residential use
- Two year limited warranty (see back cover)

FAAC operators for swinging gates are among the safest available. The anti-entrapment and safety provided by all gate operators can and should be improved with photocells, loop detectors, sensing edges and/or other similar devices. FAAC strongly recommends that devices such as these be installed with all automated gate systems.

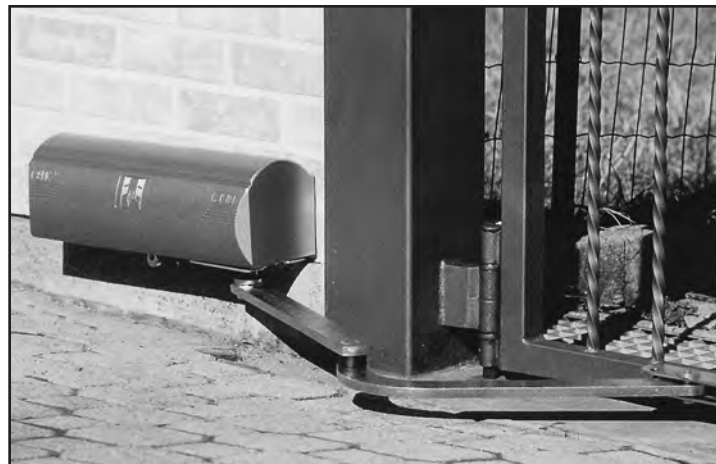
To guarantee the safety and efficiency of its equipment, FAAC strongly recommends that qualified personnel test the safety system on an annual basis, as well as maintain the overall hydraulic or mechanical system.

Model 390

Model 390 | Electromechanical Swing Gate Operator

The Model 390 was designed primarily to accommodate large pillar installations.

- . Easy installation
- . No gate modifications are necessary
- . Operates even in case of power failure with standard battery back-up (subject to battery condition)
- . Reverse on contact
- . Slow down "soft stop"



Model 390

Batteries are for emergency back-up only; not needed to run system under normal conditions.



The 390 is also ideal for swinging garage doors.

Specifications	
Duty cycle	100%
Maximum gate swing	120 degrees
90 degree opening time	13 seconds
Maximum weight per gate leaf	600 pounds (181.4 kg)
Maximum length per gate leaf	14 feet (3 m)
Approx. operating temperature range	-4°F to 131°F (-20°C to 55°C)
Voltage	Primary: 115 VAC Secondary: 24vdc
Absorbed power	3 W
Protection class	Nema 4x

NOTE: Operator specifications are approximate. Environmental factors can change the performance of the operator.

Model 390 | Electromechanical Swing Gate Operator

Kit w/E024U Board

Model	Package Includes	Shipping Wt (approx.)	Voltage	Part Number	Price
Model 390 Basic Single Kit w/E024U Board	Operator, E024U Control Board, 14x16 enclosure, Power Supply, batteries, and 2 limit switches	58 lbs. (26.3kg)	24vdc	104579.5E+	\$2,063

To make the above a master/slave (bi-parting) system use the following:

Model	Package Includes	Shipping Wt (approx.)	Voltage	Part Number	Price
390 Operator Only	Use to make the single kit into a master/slave (bi-parting) kit; or use to order replacement operator. Order necessary length needed for system of two wire cable part #2197 for power and three wire cable part #2192 for limit switch at no charge; up to 40 ft per system and add 2 limit switches.	24 lbs. (10.9kg)	24vdc	104579	\$933

To complete your gate system installation, or for replacement purposes, the following peripherals can be ordered:

Model	Package Includes	Shipping Wt (approx.)	Voltage	Part Number	Price
Battery (8 amp hour)	Two batteries are needed (replacement only)	6 lbs. (2.7 kg)	12vdc	3540	\$66
Limit Switch	Shuts operator off; serves as positive stop; one limit needed for open stop, another for closed stop	1 lbs. (.45 kg)		390682	\$35
Transmitter	FAAC single button dip switch FAAC two button dip switch	1 lbs. (.45 kg)		1tm418ds 787317	\$45 \$53
Photobeam	Directional with diagonal alignment; required for UL-325 compliance	1 lbs. (.45 kg)		785163	\$244
Receiver	FAAC single channel	1 lbs. (.45 kg)		1rp418ds	\$79
Two Wire cable	Use in Master/Slave Systems			2197	3.00/ft
Transmitter	4 Channel transmitter XT 4433 RC			787453	\$23
Receiver	Receiver 433 RC Plug In			787741	\$42
E024U C/P	E024U 24vdc Replacement board	2 lbs. (.9 kg)	24vdc	202025	\$541
E024U Power Supply	Switching Power Supply for E024U Board	2 lbs. (.9 kg)		750007	\$156
E024U Loop Detector Rack (Use W/PLD 1500)	E024U Loop Detector Interface (free exit, safety & shadow loop bases).	1 lb (.45 kg)		2670	\$120
E024U Plug In Loop Detector	10 Pin Plug In Detector For E024U Loop Detector Interface			PLD1500	\$177
FAAC Tuned Antenna Kit	Tuned Antenna Kit			412003	\$88

Model	Package Includes	Shipping Wt	Part Number	Price
390 Arm	Articulated replacement arm	4 lbs.	738705	\$266

* If you have any questions regarding your application, please call FAAC's technical department at 1-866-925-3222 or 1-800-221-8278.

Visit us online at

www.faacusa.com

Model 415

Electromechanical Swing Gate Operator



- Designed for residential use
- Two year limited warranty (see back cover)

FAAC operators for swinging gates are among the safest available. The anti-entrapment and safety provided by all gate operators can and should be improved with photocells, loop detectors, sensing edges and/or other similar devices. FAAC strongly recommends that devices such as these be installed with all automated gate systems.

To guarantee the safety and efficiency of its equipment, FAAC strongly recommends that qualified personnel test the safety system on an annual basis, as well as maintain the overall hydraulic or mechanical system.

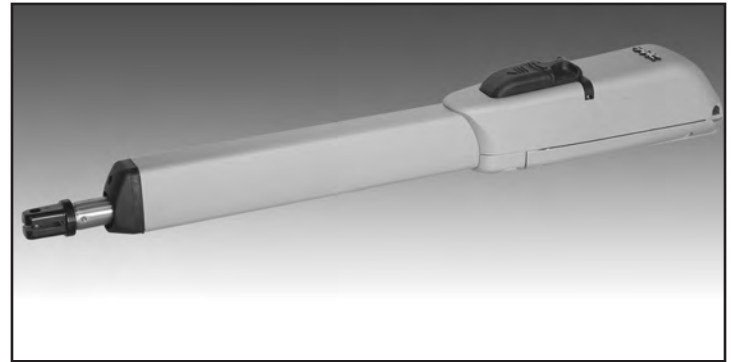
Model 415

Model 415 | Electromechanical Swing Gate Operator

The Model 415 was designed to provide power and versatility to an economical residential swing operator.

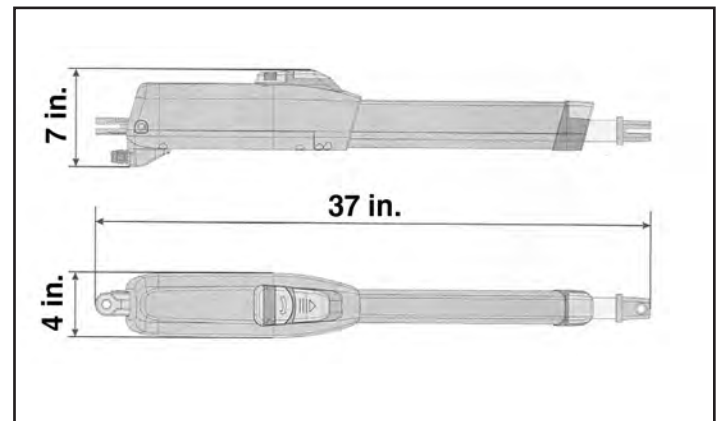
Features

- . Sleek design
- . Sealed limit switches
- . Battery Back Up



Model 415

Batteries are for emergency back-up only; not needed to run system under normal conditions.



Model 415 dimensions



Specifications	
Duty cycle	100%
Maximum gate swing	110 degrees
90 degree opening time	13 seconds
Maximum weight per gate leaf	700 pounds (317.5 kg)
Maximum length per gate leaf	15 feet (4.6 m)
Approx. operating temperature range	-4°F to 131°F (-20°C to 55°C)
Voltage	Primary: 115 VAC Secondary: 24vdc
Power Consumption	70 W
Current Consumption	3 A
Effective Stroke	15 in. (38.1 cm)
Protection class	Nema 4x

NOTE: Operator specifications are approximate. Environmental factors can change the performance of the operator.

Model 415 | Electromechanical Swing Gate Operator

Kit w/E024U Board

Model	Package Includes	Shipping Wt (approx)	Voltage	Part Number	Price
415 Basic Single Kit w/ E024U Board	Operator, E024U Control Board, 14x16 enclosure, power supply, and batteries	58 lbs. (26.3kg)	24vdc	10441811.5E+	\$1,900

To make the above a master/slave (bi-parting) system use the following:

Model	Package Includes	Shipping Wt (approx)	Voltage	Part Number	Price
415 Operator Only	Use to make the single kit into a master/slave (bi-parting) kit; or use to order replacement operator. Order necessary length needed for system of two wire cable part #2197 for power and three wire cable part #2192 for limit switch at no charge; up to 40 ft per system.	25 lbs. (11.3 kg)	24vdc	104418115	\$887

To complete your gate system installation, or for replacement purposes, the following peripherals can be ordered:

Model	Description	Shipping Wt (approx)	Voltage	Part Number	Price
Battery (8 amp hour)	Two batteries are needed (replacement only)	6 lbs. (2.7 kg)	12vdc	3540	\$66
Transmitter	FAAC single button	1 lbs. (.45 kg)		11m418ds	\$45
Transmitter	FAAC two button	1 lbs. (.45 kg)		787317	\$53
Photobeam	Directional with diagonal alignment; required for UL-325 compliance	1 lbs. (.45 kg)		785163	\$244
Receiver	FAAC single channel	1 lbs. (.45 kg)		1rp418ds	\$79
Two Wire cable	For use with master or master/slave system; (included with basic kit, see above)	N/A		2197	3.00/ft
Transmitter	4 Channel transmitter XT 4433 RC			787453	\$23
Receiver	Receiver 433 RC Plug In			787741	\$42
E024U Control Panel	E024U 24vdc Replacement Board	2 lbs. (.9 kg)	24vdc	202025	\$541
E024U Power Supply	Switching Power Supply for E024U Board	2 lbs. (.9 kg)		750007	\$156
E024U Loop Detector Rack (Use W/PLD 1500)	E024U Loop Detector Interface (free exit, safety & shadow loop bases).	1 lb (.45 kg)		2670	\$120
E024U Plug In Loop Detector	10 Pin Plug In Detector For E024U Loop Detector Interface			PLD1500	\$177
FAAC Tuned Antenna Kit	Tuned Antenna Kit			412003	\$88

* If you have any questions regarding your application, please call FAAC's technical department at 1-866-925-3222 or 1-800-221-8278.

Visit us online at

www.faacusa.com

Model 770

In-ground Swing Gate Operator



- Designed for residential use
- Two year limited warranty (see back cover)

FAAC operators for swinging gates are among the safest available. The anti-entrapment and safety provided by all gate operators can and should be improved with photocells, loop detectors, sensing edges and/or other similar devices. FAAC strongly recommends that devices such as these be installed with all automated gate systems.

To guarantee the safety and efficiency of its equipment, FAAC strongly recommends that qualified personnel test the safety system on an annual basis, as well as maintain the overall hydraulic or mechanical system.

Model 770

Model 770 | Electromechanical Swing Gate Operator

The Model 770 was designed for in-ground installation so as not to detract from the appearance of the gate.

Features

- . Invisible installation
- . Minimized “pinch points”
- . Reverse on contact
- . Operates even in case of power failure (subject to battery condition)
- . Slow down “soft stop”
- . Optional 140° or 180° opening kits available



Model 770 in-ground application



Specifications	
Duty cycle	100%
Maximum gate swing	110 degrees (140 or 180 degrees with optional kit)
90 degree opening time	13 seconds
Maximum weight per gate leaf	1,100 pounds (500 kg)
Maximum length per gate leaf	10 feet (3 m)
Approx. operating temperature range	-4°F to 131°F (-20°C to 55°C)
Voltage	Primary: 115 VAC Secondary: 24vdc
Power consumption	70 W
Current consumption	3 A
Protection class	Nema 4x

NOTE: Operator specifications are approximate. Environmental factors can change the performance of the operator.

Model 770 | Electromechanical Swing Gate Operator

Kit w/E024U Board

Model	Package Includes	Shipping Wt (approx.)	Voltage	Part Number	Price
770 Basic Single Kit	Operator, support box, E024U C/P, Power Supply 14x16 in. enclosure, and batteries	98 lb. (44.5 kg)	24vdc	106753.5E+	\$2,586

To make the above a master/slave (bi-parting) system use the following:

Model	Package Includes	Shipping Wt (approx.)	Voltage	Part Number	Price
770 Operator Only	Use to make the single kit into a master/slave (bi-parting) kit; or use to order replacement operator. Order necessary length needed for system of two wire cable at no charge; maximum 40 ft per system; part number is 2197	24 lb. (10.9 kg)	24vdc	10675315	\$1,012
Support Box	Needed with operator for bi-parting system	36 lb (16.3 kg)		490065	\$467
Support Box Stainless Steel	Needed With Operator For Bi-Parting Systems			490110	\$728

To complete your gate system installation, or for replacement purposes, the following peripherals can be ordered:

490110 \$728

Model	Description	Shipping Wt	Voltage (approx.)	Part Number	Price
Battery (7.2 amp hour)	Two batteries are needed (replacement only)	6 lbs. (2.7 kg)	12vdc	3540	\$66
Transmitter	FAAC single button	1 lb. (.45 kg)		1tm418ds	\$45
Transmitter	FAAC two button	1 lb. (.45 kg)		787317	\$53
Photobeam	Directional with diagonal alignment; required for UL-325 compliance	1 lb. (.45 kg)		785163	\$244
Receiver	FAAC single channel	1 lb. (.45 kg)		1RP418ds	\$79
Two Wire Cable		1 lb. (.45 kg)		2197	\$3.00/ft
140 Degree Opening Kit	Use to increase opening capacity to 140 degrees			390612	\$187
180 Degree Opening Kit	Use to increase opening capacity to 180 degrees			490111	\$525
Positive Stop Kit (Open)	Use for bolt on positive stop in the open position	2 lb. (.9 kg)		722121	\$52
Positive Stop Kit (Closed)	Use for bolt on positive stop in the closed position	2 lb. (.9 kg)		722122	\$130
Transmitter	4 Channel transmitter XT 4433 RC			787453	\$23
Receiver	Receiver 433 RC Plug In			787741	\$42
E024U Board	24vdc Replacement Board	2 lb. (.9 kg)	24vdc	202025	\$541
E024U Power Supply	Power Supply for E024U	2 lb. (.9 kg)		750007	\$156
E024U Loop Detector Rack (Use W/PLD 1500)	E024U Loop Detector Interface (free exit, safety & shadow loop bases).	1 lb (.45 kg)		2670	\$120
E024U Plug In Loop detector	10 Pin Plug In Detector For E024U Loop Detector Interface			PLD1500	\$177
FAAC Tuned Antenna Kit	Tuned Antenna Kit			412003	\$88

* If you have any questions regarding your application, please call FAAC's technical department at 1-866-925-3222 or 1-800-221-8278.

Pedestrian Door Operator

The logo for FAAC, featuring the letters 'FAAC' in a bold, stylized, black font. The 'F' and 'A' are connected, and the 'C' has a distinctive shape. The logo is positioned on a light gray background that has a large, stylized 'F' shape cutout.

Model 950BM | Automatic Swing Door Operator

Automated systems for leaf doors

Open and close in absolute silence

The 950 automated systems command door opening and closing in absolute operating silence, both in the spring version and in the motorized closing version

Versatile and elegant

The automated systems FAAC 950 BM (with spring closing system) can be installed both on the lintel and directly on the door's structure.

The housing covering the automated system can be supplied in anodized extruded aluminium or in shaped ABS in an innovative design making it possible to fit a detection sensor (passive infrared) inside it.

Safe and intelligent

The automated system has two control boards:

950 MPS (control board) and 950 I/O (input/output).

A microprocessor controls all the door's activities in real time, and an encoder detects its angular position at all times.

Moreover, you select the operating logic (automatic, manual, night, open) by means of an integrated selector.

Built in conformity with the new European safety regulations, and UL standards, speed and force are programmed according to the size of the door. If an obstacle is detected, the door reopens immediately, and as it closes it verifies, at slow speed, the release of the obstacle.

Powerful and reliable

Thanks to the accurate selection of the mechanical and electronic components, our 950 BM automated system is able to move leaves weighing over 660 lbs., on continuous duty, while always maintaining absolute operational safety.

FOR INDOOR USE ONLY



Specifications	
Power supply	115 VAC (+6% -10%) 60 Hz
Absorbed power	100 W
Use frequency	continuous
Drive unit	24 Vdc motor with encoder
Activation	electromechanical with/without return spring
Anti-crushing device	supplied standard
Dimensions	21" x 4" x 4 1/8" in (LxHxD)
Weight	22 lbs
Protection class	IP 23
Opening angle	70° - 95°
Opening speed	adjustable from 30% to 100%
Closing speed	adjustable from 30% al 100%
Pause time	adjustable from 1 to 30 sec.
Standard operating functions	automatic-manual-open
Activation arms in stainless steel	articulated to push with short sliding block with standard sliding block
Covering housing	aluminium

Leaf length (in)	Leaf max weight (lbs) Articulated arm to push	Leaf max weight (lbs) Short sliding block arm	Leaf max weight (lbs) Standard siding block arm
28	810	630	-
30	705	550	-
32	620	485	-
34	550	-	430
36	490	-	380
38	440	-	340
40	400	-	310
42	360	-	280
44	330	-	260
46	300	-	240
48	275	-	215
50	255	-	200
52	240	-	185
54	220	-	170
56	205	-	160

Standard Functions

- . Function logics: AUTOMATIC - MANUAL - OPEN
- . Self learning of open and closed positions and measurement of door weight
- . Anti-crushing safety device active during opening and closing
- . "PUSH and GO" function can be selected (Commands opening by a simple push on the door)
- . "ANTI-WIND" function can be selected (Guarantees the resistance of the door during closure even in a strong wind)
- . Closing thrust to guarantee door closure even in a strong wind
- . Manual operation in case of an electrical power cut.
- . Adjustment trimmer for: opening speed, closing speed, and pause time

- . Inputs for: microwave radar, passive infrared sensor, command pushbuttons, photocells, electric locks, bolt, KP Controller programming unit.

If you use the KP Controller programming unit, coupled to the programming display, you obtain the following functions:

- . Function Logics: AUTOMATIC - MANUAL - OPEN - ONE WAY - NIGHT
- . Adjustment of opening and closing speed
- . Pause time adjustment
- . Opening width adjustment
- . Interlock function
- . Master-Slave Function for double leaf doors.
- . Preset for acoustic and light transit signalers
- . Self diagnosis.



1054481 - 950BM Swing Operator 115V - Aluminum Cover \$ 1,655

390039 - Articulated Arm \$ 199

390040 - Sliding Arm \$ 199



790829 - KP Controller Programming Display \$ 141



790840 - KP Controller Programming Unit \$ 298

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Bollards

The logo for FAAC, featuring the letters 'FAAC' in a bold, stylized, black font. The 'F' and 'A' are connected, and the 'A' has a unique shape with a diagonal stroke. The 'C' is a simple, rounded letter.

FAAC

J200HA Automatic | Traffic Bollard

Retractable Traffic Bollard

1. Easy to transport, store and install, thanks to the self-supporting structure - pit not required - and to the limited weight of the product.
2. A streamlined product, configurable by selecting the desired installation accessories.
3. Simplified maintenance (possible with just one person).
4. Fast and silent movement.



Dimensions and Technical Specifications

Drive	Hydraulic Actuator
Cylinder stroke	600 mm
Cylinder diameter	200 mm
Cylinder material standard version	Steel Fe 360 (6 mm thickness)
Standard cylinder surface treatment	Cataphoresis and polyester powder paint, dark grey metallised RAL 7021
Cylinder material special stainless steel version	Satin-finished AISI 316 (6 mm thick)
Cylinder top part (head)	Aluminium RAL 9006
Rise time	About 7 sec
Descent time	About 7 sec
Hydraulic pump power supply	230 Vac +6% - 10%; 50/60 Hz
Power consumption	230 W
Protection rating	IP 56
Standard refracting strip	Height 25 mm
Manual lowering operation	Possible with hydraulic circuit mechanical release
Total weight	90 kg
Operating temperature	-15 °C / +55 °C
Operating temperature with heater (opt.)	-25 °C / +55 °C
Dimensions	400x500x800 mm
Connection cable	Standard 16+1 conductors, minimum section 1.5 mm (not supplied)
Maximum length	50 m



AVAILABLE VERSIONS

Model	Description	Price
116500	J200 HA / 600 Painted Steel	\$6,740
116505	J200 HA / 600 Satin Finished AISI Stainless Steel	\$8,320

ACCESSORIES

Model	Description	Price
116300	Control Board JE 275 (Controls up to 4 Bollards)	\$665
116501	Pit Heater J200 HA	\$761
116502	Release Kit With Pressure Switch J200HA	\$690
116503	Acoustic Buzzer J200 HA	\$64
116504	LED Lights Kit J200 HA	\$171

J200F Fixed | Traffic Bollard

Traffic Bollard

1. Power supply and wiring not required.
2. Simple installation and limited digging operations.
3. Observance of aesthetic consistency in mixed installations with other retractable bollards.
4. Easy to transport, store.



Dimensions and Technical Specifications	
Cylinder height	600 mm
Cylinder diameter	200 mm
Cylinder material standard version	Steel Fe 360 (6 mm thickness)
Standard cylinder surface treatment	Cataphoresis and polyester powder paint, dark grey metallised RAL 7021
Cylinder material special stainless steel version	Satin-finished AISI 316 (6 mm thick)
Cylinder top part (head)	Aluminium RAL 9006
Standard refracting strip	Height 25 mm

AVAILABLE VERSIONS

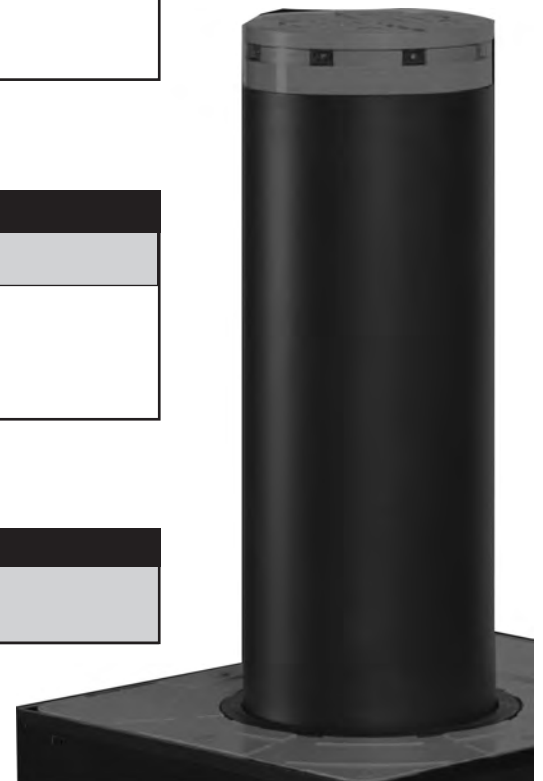
Part Number	Description	Price
116506	J200 F600 Painted Steel	\$1,985
The product comes with:		
<ul style="list-style-type: none"> • 6 mm thick steel cylinder with cataphoresis treatment and painted • powder coated dark grey metallised RAL 7021 • support structure to be cemented with cataphoresis treatment (pits not required) 		

STANDARD VERSIONS in AISI 316 stainless steel

Part Number	Description	Price
116507	satin-finished AISI 316 stainless steel	\$3,040
The product comes with:		
<ul style="list-style-type: none"> • 6 mm thick stainless steel cylinder with satin-finished treatment • support structure to be cemented with cataphoresis treatment (pits not required) 		

ACCESSORIES

Part Number	Description	Price
116504	LED LIGHTS KIT J200F	\$171



J275 | Automatic Traffic Bollards

The J Series bollard represents a new generation access control solution. Many design innovations make it easy to handle and install but best of all its performance is market leading and lifetime costs exceptionally competitive. Activated by any access control system or signalling device, it is an alternative solution to fixed posts and barriers, allowing regulation of traffic into certain zones with high vehicle flow, (e.g. restricted areas, pedestrian areas, parking and industrial sites and many more). Available with a diameter of 11in. (275mm), and a height of 24in. (600mm) or 32in. (800mm).



J 275 Bollard guarantees free pedestrian flow, but manages vehicle traffic or limited parking, with the following advantages:

- Does not disfigure the characteristics of the environment because of its mobile concealed element with minimal environmental impact
- Ensures greater protection of pedestrian areas in the town center
- Allows access to authorized vehicles only
- Reduces and optimises the use of human resources in access control activities
- Customizable color selection for blending in with the urban context
- Activity can be signalled by built-in buzzer and led outer ring, according to its position
- A full range of accessories is available
- Its function is to deter

Truly Innovative and Unique Bollard

The J Series has a number of exceptional features. The bollard was designed and tested in order to optimise installation, servicing and maintenance activities whilst maintaining maximum reliability over its lifetime.

- New drive concept-the drive unit is mounted in the moving cylinder
- High resistance steel structure
- Fast moving cylinder
- "Fully optional" version including all main accessories
- Lowered maintenance costs, due to one man servicing.
- Flexible control unit that manages up to 4 bollards
- Possible replacement of first generation FAAC city bollards
- Cylindrical shaped metal sheets make up the foundation box, enabling easy handling



12 Reasons to explain the Uniqueness of J 275 Bollard

- Mobile drive unit, extractable by a handle for ease of replacement or maintenance
- Cylinder slides on double rail to provide better stability in raising and lowering
- No pipes with oil under pressure to avoid risk of failure's risks
- Built-in illuminated outer ring powered by central led and acoustic buzzer
- Built-in emergency release in case of power failure
- Built-in mechanical release to lower the cylinder in any circumstances
- Cylinder available in stainless steel AISI 316
- Internal fixing frames made of stainless steel
- Connectors and junction boxes, with IP 67 certification
- Round-section pit to optimize digging works
- Pit supplied in a kit to minimize transport charges and packaging dimensions
- JE 275 control board able to manage up to four bollards



Technical Specifications	J275/600 HA	J275/800 HA
Drive	Hydraulic	
Cylinder stroke	24in. (600mm)	32in. (800mm)
Cylinder diameter	11in. (275mm)	
Cylinder material standard release	Steel Fe360	
Cylinder material special release stainless steel	AISI316	
Cylinder surface treatment	Cataphoresis and polyester powder painted dark grey metallised RAL 7021	
Head surface treatment	Anticorodal case aluminium RAL 9006	
Rising time	About 5,0 sec.	About 7 sec
Descent time (standard)	About 2,8 sec	About 3,5 sec
Descent time (rapid) (*)	1 sec	1,2 sec
Hydraulic drive unit	Power supply 230 VAC +6% -10%; 50 Hz	
Power consumption	220W	
Protection class	IP 67	
Work frequency	Heavy duty	
Reflective strip	Standard height 21/4in. (55 mm)	
Manual lowering operation	Simple hydraulic release key	
Impact resistance	38,000 Joules	
Break in resistance	120,000 Joules	
Walled in pit with cylinder profile	23x23x38in. 560x560x950 mm	23x23x48in. 560x560x1220 mm
Cable to link bollard to control unit (not supplied)	FG70R-0,6/1Kv-16G-1,5	
Max cable length	165 ft. (50 mt)	
Environment temperature	0°F to 135°F -15/+55°C	



Traffic Bollard-Hydraulic

The J275 automatic concealed traffic bollard has fully integrated hydraulic technology for heavy duty usage. With a standard descent time of 2.8 seconds, there is an extra setting that activates the emergency release valve and allows a descent time of just 1 second. Even the basic bollard in the range comes with flashing lights, buzzer, emergency release and mechanical release.

Painted Steel Standard Versions

J 275/600 HA painted steel

- steel cylinder 5/16 in. (7 mm) thickness treated by cataphoresis and painted
- powder painted dark grey metallic RAL 7021
- buzzer

Part Number 116000

Price \$8,677

- Illuminated outer ring powered by central LED
- emergency release in case of power failure (failure safe or secure)

J 275/800 HA painted steel

- steel cylinder 5/16in. (7 mm) thickness treated by cataphoresis and painted
- powder painted dark grey metallic RAL7021
- buzzer

Part Number 116001

Price \$9,212

- Illuminated outer ring powered by central LED
- emergency release in case of power failure (failure safe or secure)

Stainless Steel AISI 316 Special Versions

J 275/600 HA satin finish stainless steel AISI 316

- stainless steel cylinder 1/4in. (6 mm) thickness satin finished
- buzzer

Part Number 116030

Price \$10,659

- Illuminated outer ring powered by central LED
- emergency release in case of power failure (failure safe or secure)

J 275/800 HA satin finish stainless steel AISI 316

- stainless steel cylinder 1/4in. (6 mm) thickness satin finished
- buzzer

Part Number 116031

Price \$11,516

- Illuminated outer ring powered by central LED
- emergency release in case of power failure (failure safe or secure)

Accessories for Automatic Version

- Pit heater JH 275 (to extend operation below 0°F)
- Pit cover JC 275
- Control unit JE 275 (up to max n. 4 bollards)
- Pit bollard JP 275/600
- Pit bollard JP 275/800 with extension

Part Number 116200	\$761
Part Number 116201	\$321
Part Number 116300	\$665
Part Number 116100	\$1,178
Part Number 116100+116101	\$1,393

J275 | Semi-Automatic

RETRACTABLE TRAFFIC BOLLARD - Semi-Automatic

This type of bollard is recommended in cases where access is limited, or when used together with the automatic version. This bollard solves transit/stopping problems without requiring electricity. With its single-effect gas-powered spring, raising is done automatically by key release and lowering is done by applying slight pressure to the top of the bollard.

AVAILABLE VERSIONS

PAINTED STEEL STANDARD VERSIONS

- J 275/600 SA painted steel
 - steel cylinder 7 mm thickness treated by cataphoresis and painted
 - powder painted dark grey metallised RAL 7021

STAINLESS STEEL AISI 316 SPECIAL VERSIONS

- J 275/600 SA stainless steel
 - stainless steel cylinder 7 mm thickness satin finished



Technical Specifications	
Movement	Single effect gas spring
Cylinder stroke	600 mm
Cylinder diameter	275 mm
Cylinder material standard release	Steel Fe 360
Cylinder material special release stainless steel	AISI 316 satin finish
Cylinder surface treatment	Cataphoresis plus polyester powder painted dark grey metallised RAL 7021
Head surface treatment	Anticorodal case aluminium RAL 9006
Rising	Key release: automatic rising with single effect gas spring
Lowering	Key release: by applying pressure on the cylinder top
Reflective strip	Standard height 2 1/4in. (55 mm)
Impact resistance	38,000 Joules/painted steel - 67,000 Joules/stainless steel
Break in resistance	128,000 Joules/painted steel - 207,000 Joules/stainless steel
Walled in pit with cylinder profile	560 x 560 x 950 mm

Part Number	Description	Price
116050	Bollard 275H600 Semi-automatic - painted steel	\$6,500
116060	Bollard 275H600 Semi-automatic - stainless steel	\$8,100

Accessories:

Part Number	Description	Price
116100	Bollard Pit JP 275/600	\$1,178
116201	Pit Cover JC 275	\$321
39008	Release keys kit (5 pcs)	\$160

Bollard pit 116100 and bollard cover 116201, are the same for automatic bollard J 275 HA

J275 | Fixed Version

TRAFFIC BOLLARD - Fixed

The fixed bollard is suitable for installations when all bollards don't need to be automated, the fixed bollards can maintain aesthetic appearances for sites, thus reducing costs and time of installation.

AVAILABLE VERSIONS

PAINTED STEEL STANDARD VERSIONS

- J 275/600 F painted steel
 - steel cylinder 3/16in. (4 mm) thickness treated by cataphoresis and painted
 - powder painted dark grey metallised RAL 7021
- J 275/800 F painted steel
 - steel cylinder 3/16in. (4 mm) thickness treated by cataphoresis and painted
 - powder painted dark grey metallised RAL 7021

STAINLESS STEEL AISI 316 SPECIAL VERSIONS

- J 275/600 F satin finish stainless steel AISI 316
 - stainless steel cylinder 1/8in. (3 mm) thickness satin finished
- J 275/800 F satin finish stainless steel AISI 316
 - stainless steel cylinder 1/8in. (3 mm) thickness satin finished



Technical Specifications	J275/600 F	J275/800 F
Cylinder height	24in. (600 mm)	32in. (800 mm)
Cylinder diameter	11in. (275 mm)	
Cylinder material	Steel Fe 360	
Cylinder material special release stainless steel	AISI 316 satin finish	
Cylinder surface treatment	Cataphoresis plus polyester powder painted dark grey metallised RAL 7021	
Head surface treatment	Anticorodal case aluminium RAL 9006	
Reflective strip	Standard height 2 1/4in. (55 mm)	
Break in resistance	35,000 Joules/painted steel 59,000 Joules/stainless steel	
Walled in pit	450 x 450 x 30 mm	

Part Number	Description	Price
116020	Fixed Bollard J275/600 Painted Steel	\$1,700
116021	Fixed Bollard J275/800 Painted Steel	\$1,800
116040	Fixed Bollard J275/600 Stainless Steel	\$2,600
116041	Fixed Bollard J275/800 Stainless Steel	\$2,850

Accessories:

Part Number	Description	Price
116120	Fixed Bollard Pit JPF	\$350

M30 | Crash Bollard

RIISING TO THE CHALLENGE OF SECURITY VEHICLE ACCESS CONTROL

New solutions for security access control with J series bollard M30 class resistance. Activated by any access control system or signaling device, it is an alternative solution to fixed posts, allowing traffic management into certain zones by authorized vehicles only. J355HA-M30-P1 is the new FAAC retractable security bollard conceived for perimeter protection applications.

The bollard has been successfully tested in accordance to "ASTM F 2656-07 - American Standard Test Method for Vehicle Crash Testing of Perimeter Barriers" with the highest class P1 (less than 1 meter penetration).

The above class resistance is defined as 656.000 joules energy adsorbed; 15,000 lbs (6800 Kg) truck with a speed of about 30 Mph (50 km/h).

The J355HA-M30-P1 is an all in one bollard with a built-in hydraulic drive unit optimizing the space required to install a bollard without the need for external pumps and pipes.

The J355HA-M30-P1 is the solution to increase the security of perimeter protection.

The bollard can be used for a variety of applications to allow access to a sensitive area in need of extreme protection such as: airports, embassies, consulates, public offices, banks, marina's.

The J 355 bollard guarantees free pedestrian flow, but provides security in avoiding vehicle intrusion with the following advantages:

- Limited environmental impact because of its mobile concealed element.
- Ensures greater protection of sensitive areas.
- Allows access to authorized vehicles only.
- Reduces and optimizes the use of human resources in access control activities.
- Bollard movement is signaled by built-in led's lights.
- A full range of accessories is available.



INNOVATIVE SECURITY BOLLARD

- The J Series security bollard J355HA-M30-P1 has a number of exceptional features. The bollard has been tested in accordance to ASTM F 2656-07 M30 standards and achieved the highest penetration rating "P1".
- All in one: bollard has a built-in hydraulic drive unit to avoid loss of power from underground pipes.
- No pipes with oil under pressure on underground ducts to avoid leakages or failure risks.
- Suitable duty cycle that allows the use in heavy traffic conditions.
- Emergency Fast Operation circuit (option) for rapid up-rise possible in 1.5 seconds (optional).
- Fail-secure position in case of power failure by hydraulic blocking.
- Steel cylinder, thickness 16 mm treated with cataphoresis and painted.
- Cylinder slides on central rail piston to provide optimal stability when raising and lowering the bollard.
- Built-in LED light grants visibility in all directions.
- Junction boxes and connectors are IP 66 rated.
- Stainless steel internal fixing frames.
- Control board: extremely reliable electronic unit able to manage one bollard.
- No special cables are required.

Accessories for automatic version

- Bollard pit JP355 (included with bollard)
- Pit heater JH355 (optional)
- Control unit for managing one bollard.

Options for automatic version

- RAL painting on request (not available on stainless steel)
- Stainless steel satin finishing
- E.F.O. Emergency Fast Operation for faster raising of the bollard.

M30 | Crash Bollard

Specifications	
Drive	By hydraulic unit
Cylinder stroke	39 in. (1000 mm)
Cylinder diameter	14 in. (355 mm)
Cylinder steel sheet thickness	5/8 in. (16 mm)
Cylinder built-in reinforcement disks	n.4 of 3/8 in. (10 mm) thickness
Cylinder material standard release	S355JR EN10210
Cylinder surface treatment	Cataphoresis and polyester powder painted
Colour	Dark grey
Head surface treatment	Anticorrosion case aluminum RAL 9006
Rising time	About 6,0 sec
Rising time with E.F.O.	About 1,5 sec
Descent time	About 2,0 sec
Hydraulic drive unit power supply	230 Vac + 6% - 10%; 50/60 Hz
Power consumption	800 W
Bollard class protection	IP 66
Work frequency	Heavy duty
Reflective strip standard height	2 ¼ in. (55 mm)
Impact resistance	150k Joules
Break in resistance	656k Joules in accordance to ASTM - M30
Walled in pit with square profile	L 23 in. x L23 in. x 59 in. (569 x D569 x H1500 mm)
Max cable length	164 ft (50 mt.)
Operating temperature	+5 F to 131 F (-15 °C / +55 °C)



Pit is made of steel sheet alloy, thickness e 2mm and frame to be welled in.
Main frame is ductile casted iron GS400, treated with cataphoresis.

Reinforcing steel bars of the foundation (they are common steel bars and wire mesh for construction work to be sourced locally), allows to bollard and its pit, the requested class resistance to comply with the ASTM standards: M30.

J355 M30 Perimeter Protection Security Bollard range:

Part Number	Description	Price
116002	J355 HA M30 H1.000 Painted Steel	\$24,900
116032	J355 HA M30 H1.000 Satin finish stainless Steel	\$27,900
116003	J355 HA M30 H1.000 EFO Painted Steel	\$29,900
116033	J355 HA M30 H1.000 EFO Satin finish stainless Steel	\$32,900

All these part numbers and gross Prices also include the pit.

The only accessory required to complete the installation is the standard control unit for bollard applications.

Accessories:

Part Number	Description	Price
116300	Bollard Control Unit JE275	\$665

Please Note that, for M30 bollard applications, each control unit can control 1 single bollard

Visit us online at
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Pad Mount Series

The FAAC logo is rendered in a bold, black, sans-serif font. The letters 'F' and 'A' are connected at the top, and the 'A' has a distinctive slanted top bar. The 'C' is a simple, rounded shape. The logo is positioned in the lower-left quadrant of the page, partially overlapping a large, light gray graphic element that resembles a stylized 'F' or a series of horizontal bars with a diagonal cut-off on the right side.

FAAC

Pad Mount Series

FSL700 24VDC Commercial Slide Gate Operator

FSW900 24VDC Commercial Swing Gate Operator

Easy installation, Full Feature, Built-in battery backup system

- . Operates vehicular gates for high traffic and residential applications and is ideal for custom homes, apartments, self storage, and other commercial applications.
- . Multi-Function battery backup is a standard feature built-in and offers main power fail and low battery control of the gate during a power failure.
- . The 24VDC direct drive motor to gearbox design offers high power efficiency while reducing costs and added parts.
- . Built in soft start soft stop control offers a smooth, more quiet operation and is easier on the gate and gate installation.
- . Simple to install design offers multiple prewired terminals, LED indicators, installation handles, accessory shelves, and is easy to access and set limits.
- . Wireless master slave is simple to install and eliminates the need for underground wire.



Operator Features

- . Built-in battery backup standard
- . Soft Start Soft Stop smooth operation
- . Heavy duty gearbox and 24VDC motor direct drive design
- . Simple, clean design with less moving parts
- . Fail safe design with tamper detect feature on FSL700 slide gate operator
- . Release handle with optional padlock on FSW900 swing gate operator
- . Zinc galvanized steel frame with handles for easy installation
- . FSW900's claim shell cover can be removed without removing swing arm
- . FSL700 uses a UV protected polyethylene cover with lift handle slots
- . Easy access limits are simple to set
- . Battery & accessory shelves
- . Adjustable chain idlers for front, rear, and post mount slide gates
- . Industry standard swing arm for swing gate applications
- . Plug-in loop detector inputs: reverse, open, center (shadow)
- . (2) AC accessory power plugs
- . Built-in 3-Button control for easy setup
- . Multiple terminal inputs for simple, clean wire installation
- . Maglock, solenoid, external alarm outputs
- . Power fail option can open or cycle gate
- . Low battery option can open or cycle gate
- . Anti-Tailgate & Quick Close features standard
- . Wireless master slave option



Wireless Master Slave Option



Built-in Battery Backup



Heavy duty gearbox with direct motor drive



Simple design with easy to set limits



Dimensions and Technical Characteristics

General	
Power input	120 VAC, 15A
Motor	24 VDC
Power	500 W, 1/2 HP
Power input fuse	4 amp SLB
Accessory fuse	5 amp FB
AC accessory outlets	2
Accessory power output	24DC
M/S wire	RS432, CAT5 wire

FSL700 Slide Gate Operator	
Gearbox	15:1 Fail Safe
Chain Size	#41, 25ft
Chain height - front mount	11" from base
Chain mount options	Front, rear, center
Travel speed	12 inches/sec
Gate capacity	1000 lbs, 40 feet
Shipping weight	125 lbs
Dimensions	22" H, 18" W, 15" D

FSW900 Swing Gate Operator	
Gearbox	900:1 Fail Secure
Arm type	Industry standard
Arm attachment height	17" from base
Mounting method	Pad or baseplate
Travel speed	90 degrees in 15 sec
Gate capacity	800 lbs, 18 feet
Shipping weight	150 lbs
Dimensions	18" H, 18.5" W, 23.5" D

DC GATE OPERATORS

COMMERCIAL



DURASLIDE FSL700

- 1/2 HP DC Motor, BBU included
- 1000lb, 40 ft Commercial capacity

Part	List Price
FSL700	\$2,340



DURASLIDE FSW900

- 1/2 HP DC Motor, BBU included
- 800lb, 18 ft Commercial capacity

Part	List Price
FSW900	\$2,694

GATE HARDWARE & ACCESSORIES

WIRELESS M/S



M/S MODULE WMS100

- Wireless Master Slave Module
- Eliminates Underground Wiring

Part	List Price
WMS100	\$385

LOOP DETECTORS



PLUG-IN PLD1500

- Plug In Style Eliminates Wiring
- Works On FSL700 & FSW900

Part	List Price
PLD1500	\$177

DIGITAL LOCKS & ACCESSORIES

DIGITAL LOCK



DIGITAL CODE DL1000

- LCD & Backlit Metal Keypad
- 1000 Entry Code Capacity

Part	List Price
WMS100	\$385

GOOSENECK MOUNTING POSTS



STANDARD GNS100

- 2"x2" Universal Mounting Plate
- Surface & Sub Surface Styles

Part	List Price
GNS100	\$135

FIRE BOX



FIRE BOX FLB100

- For Knox & Padlock Applications

Part	List Price
FLB100-Universal	\$94

AC Gate Operators

The logo for FAAC, featuring the letters 'FAAC' in a bold, stylized, black font. The 'F' and 'A' are connected, and the 'C' has a distinctive shape. The logo is positioned in the lower-left corner of the page, partially overlapping a large, light gray, stepped graphic element that resembles a staircase or a series of horizontal bars of decreasing length from top to bottom.

FAAC

Contents

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Choosing the Correct Operator	46
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Conventional Swing Operators



The last thing she's thinking about is gate safety . . .

thats our job.

Since 1965, FAAC has become an industry leader in the development and promotion of safer automated gate systems.

FAAC operators for swinging and sliding gates are among the safest available. The anti-entrapment and security protection provided by all gate operators can and should improved with photobeams, loop detectors, sensing edges and/or other similar devices. FAAC strongly recommends that devices such as those highlighted in this brochure be installed with all automated gate systems.

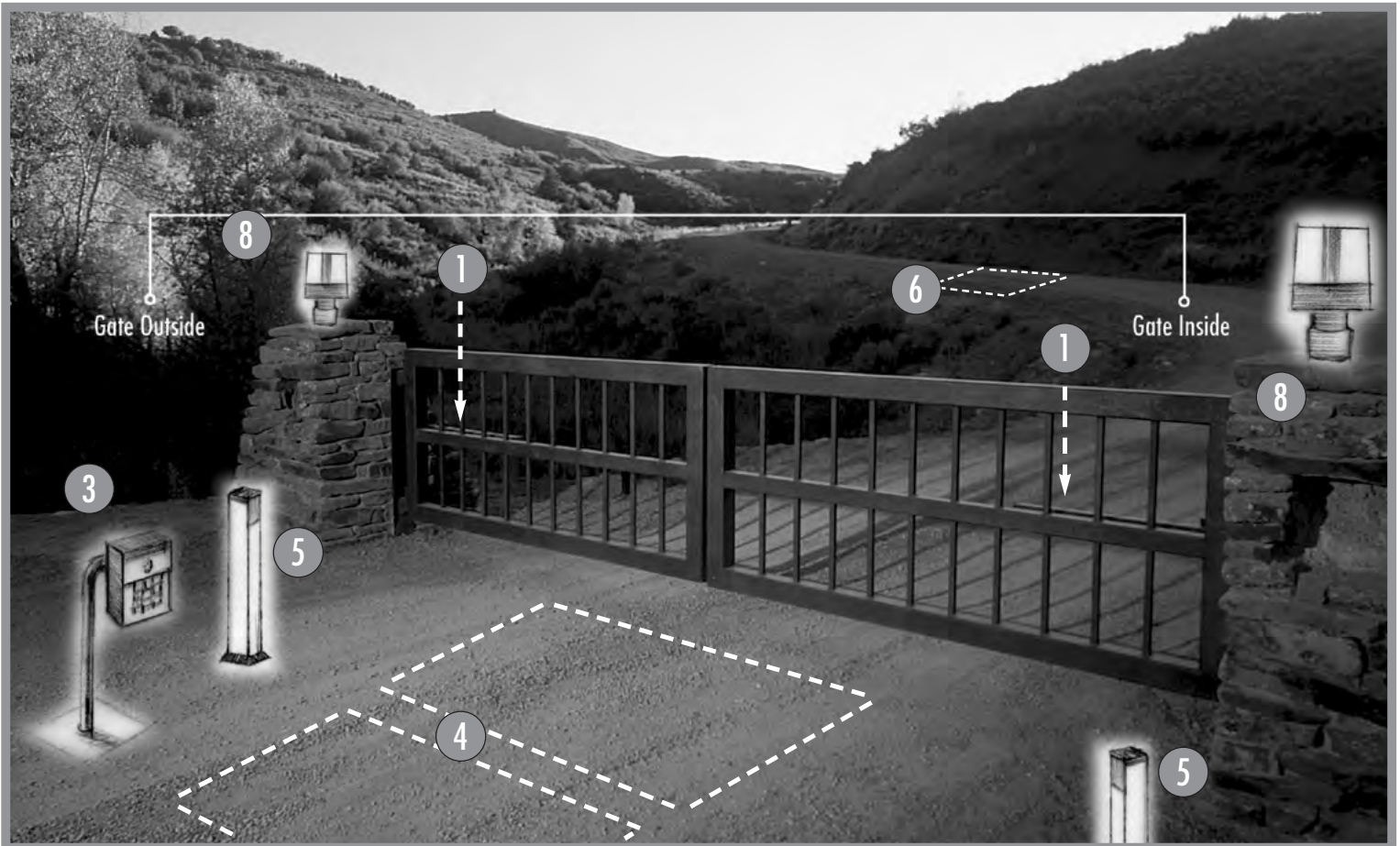
Safety

A Complete Swing Gate System Designed with Safety in Mind

What is UL 325 and why is it important?

In order to prevent personal injuries associated with automated gate systems, United Laboratories (UL), along with several government-sponsored consumer safety organizations, developed what is called the UL 325 Standards for gate safety (much the same as has now been done with automatic garage door systems). These standards are meant to protect people, not vehicles, by providing at least two types of safety measures (primary and secondary) in the event a person becomes entrapped by the gate system. Consequently, every manufacturer must have their products tested at an approved laboratory to ensure that their safety measures work. For FAAC, our safety measures include a hydraulic bypass as primary and photobeams as secondary...and we've been providing these safety standards for more than 40 years!

FAAC will be happy to package your gate system so that it can be UL 325 compliant, right out of the box. For more information on additional access control options, refer to the "ACCESSORIES CATALOG" section on the Home Page of our web site at www.faacusa.com.

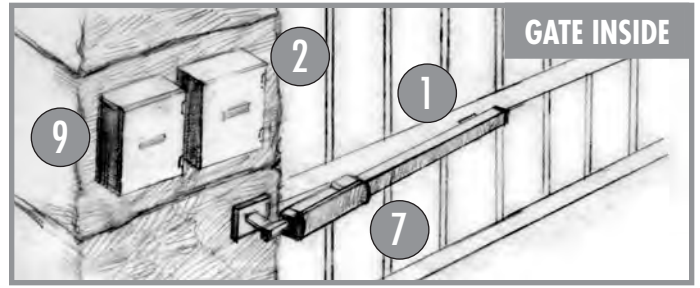


To guarantee the safety and efficiency of its equipment, FAAC also strongly recommends that qualified personnel perform an annual safety test on your gate system, as well as maintain the overall hydraulic or mechanical system.

Gate Safety System



1 Gate Operator
The swing gate operator (either gate-mounted or in-ground) automates the gate.



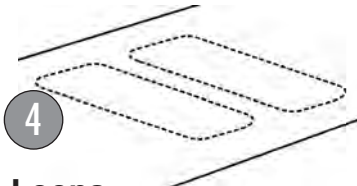
2 Control Panel
The "brain" of the gate system, the control panel is usually housed in a fiberglass or metal, weather-resistant enclosure along with other important access control devices. For security and safety, it is recommended that this enclosure be lockable. Another recommended option is to install a "pre-wired" control system from the manufacturer that provides accurate, organized wiring which is extremely helpful in future troubleshooting or repairs.



3 Access Control Options

A variety of access control devices are available, including these conventional options:

- Keypad: provides multiple codes for different visitors such as relatives, workers, regular deliveries, etc.
- Keyswitch/card reader: simplified access control using a special key or coded plastic card.
- Telephone entry: connects to existing phone line and features distinctive ring to alert you that someone is at the gate. Gates can be opened from the phone itself, and a "hold open" feature allows for gates to remain open for extended periods of time.
- Radios: radio receiver plugs into control panel and transmitters are conveniently kept in vehicles or on key ring.



4 Loops

Normally used to activate traffic lights, In-ground loop detectors can also signal your gate operator to open or close. But remember, they are designed to **protect vehicles only**, not to protect pedestrians or individuals inside the fenced area.



5 Photobeams

Photobeams protect anything that "breaks" the beam (vehicles, pedestrians, animals and, especially, children) which causes a reversal of the gate operators. Two sets of photobeams are recommended for best coverage.



6 Free Exit

For residential purposes, this in-ground loop or radio system automatically opens and closes your gate system to allow guests or visitors to exit your property without you having to do anything.



7 Gate Stops (concealed)

Gate stops are required on all FAAC gate systems. Stops limit the extent of gate travel and help protect the operator from damaging wear and tear. Stops can be fabricated and attached to the gate leaves, but don't look particularly attractive and can also create unsafe "pinch points." These problems can be solved by installing gate stops that are totally concealed inside the gate operator cover.



8 Warning Light

A warning light will alert anyone near the gate of its imminent movement plus helps to illuminate the gate area.



9 Battery Back-up

Having a battery back-up unit as part of your gate system provides the peace of mind of knowing that your gate will continue to operate even if the power goes out.

CHOOSING LINEAR STYLE SWING GATE OPERATORS

Features/Operators	415	415-24V	402	422	400	400EG
Max leaf length (ft.)	15	15	10	10	16	18
Max leaf length (ft.) w/ External Lock	15	15	10	10	23	23
Maximum Force Output	675	630	1550	1550	1740	1740
Duty (1)	Medium	Continuous	Medium	Medium	Continuous	Continuous
Use Frequency (Cycles per hour)	25	75	55	55	80	80
Power Supply (V)	115	24	115 or 230	115 or 230	115 or 230	115 or 230
Alternative Power Supply Source	BC Pro 1050	24V Sources	BC Pro 1050 (115V or 700i (230V))	BC Pro 1050 (115V or 700i (230V))	BC Pro 1050 (115V or 700i (230V))	BC Pro 1050 (115V or 700i (230V))
Battery (AC Power Failure)	No	Yes (Optional)	No	No	No	No
Anti-Crushing Protection	Electronic	Electronic	Hydraulic By-Pass +Electronic	Hydraulic By-Pass +Electronic	Hydraulic By-Pass +Electronic	Hydraulic By-Pass +Electronic
End Travel Declaration	Timed	Self-Learning	Timed	Timed	Timed	Timed
Rod Effective Stroke (in.)	15 3/4	15 3/4	9	9 1/2	10	15
Max Opening Angle (Degrees)	110	110	90	100	110	125
Forced Gate Resistance (lbs. on 6' leaf)	290	290	220 (2)	220 (2)	300 (2)	300 (2)
Built-In Mechanical Stops	No Stops Required (Limit Switches)	No Stops Required (Limit Switches)	Optional (Model - 80)	Optional (Model - 80)	Optional (Model - 84)	Optional (Model - 84)
Product Life Expectations (Cycles)	200,000 (4)	200,000	1,000,000 (5)	1,000,000	1,000,000	1,000,000
	Transmission w/ Low-Temp Grease	Transmission w/ Low-Temp Grease	Oil Bath Transmission	Oil Bath Transmission	Oil Bath Transmission	Oil Bath Transmission
Cost (Single Basic Kit)	\$1,644.00	\$1,900.00	\$2,330.00	\$2,699.00	\$2,925.00	\$3,157.00

(1) LIGHT duty: Single residence application(1-2 Families) MEDIUM duty: Subdivision application (10-30 Families) CONTINUOUS duty: Apartment complex application (> 30 families) and industrial, public and commercial applications.

(2) The hydraulic operators do not undergo permanent damages (repairable)

(3) About 10 years at 15 cycles/day

(4) About 10 years at 55 cycles/day

(5) About 10 years at 280 cycles/day

Selecting the Correct Operator for the Application

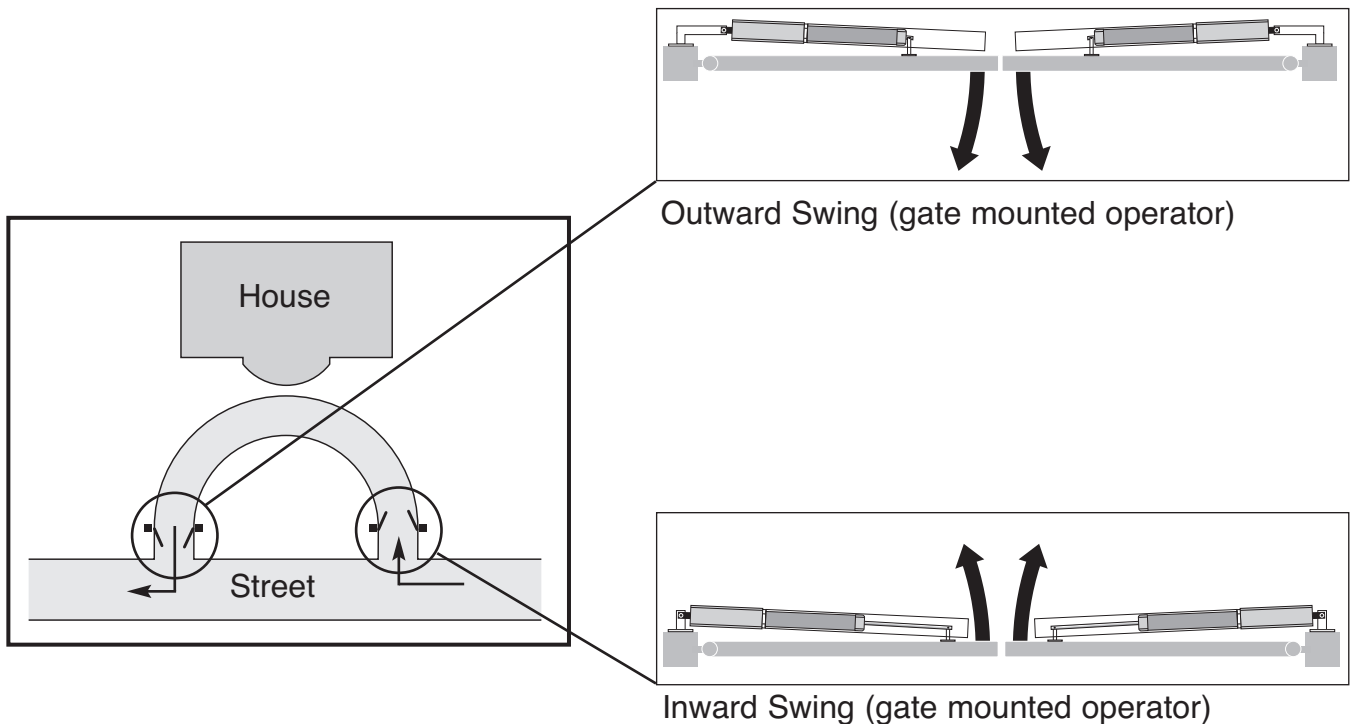
THERE ARE FOUR “DECISIONS” THAT YOU NEED TO MAKE BEFORE SELECTING A GATE OPERATOR.

FAAC offers many different models of swing gate operators. Models are designed to fit certain applications.

The following pages provide background information to help you select the best operator for your application.

DECISION #1: WHICH DIRECTION TO SWING THE GATE?

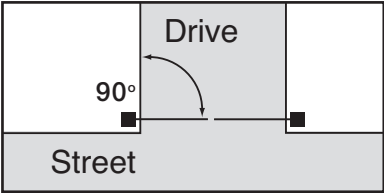
FAAC gate mounted and in-ground operators can swing gates either inward or outward. Gate mounted operators can be kept inside the property, while the direction of gate swing is best for traffic flow. In-ground operators are mounted beneath the gates. These options reduce opportunities for vandalism and improve appearance.



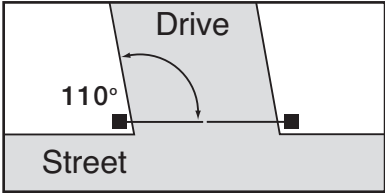
* If you have any questions regarding your application, please call FAAC's technical department at 1-800-221-8278.

DECISION #2: HOW MANY DEGREES OF SWING ARE REQUIRED?

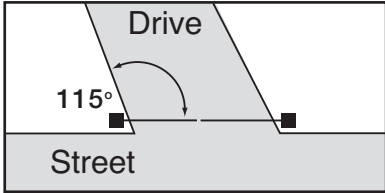
- Two FAAC gate operators (Model 750 & S800H) can swing a gate up to 180°.
- All other models of FAAC operators can swing a gate 90° to 125°.
- Openings which require swings greater than 90° will need certain FAAC operator models.
- The swing of an operator applies equally to inward or outward swinging gates.



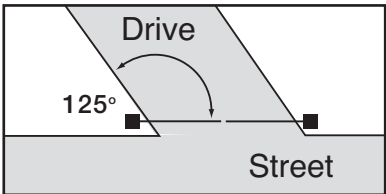
All FAAC operators: Models 412, 402, 422, 400, 750, S800H.



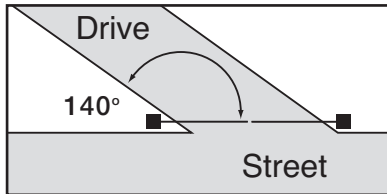
Models 412, 400, 750, S800H.



Models 400, 750, S800H.



Models 400 EG (extended geometry), 750, S800H.



Models 750 and S800H. (up to 180°),

DECISION #3: SPEED AND LEAF LENGTH

Some thought should be given to the speed at which the gate will travel. The longer the gate leaf, the faster the traveling edge must move to clear an area in a given amount of time.

A speed of 40 feet/minute (12.2 meters/minute) is a “bench mark” velocity. It permits efficient operation while limiting the energy in the moving gate leaf. The lower the energy, the less chance of damage to property or injury to people in the event of accidental contact with the moving gate.

Examples illustrating the relationship between operator speed, gate leaf length, and the velocity of the leaf’s traveling edge

Speed options available with FAAC Operators (in seconds needed to swing a gate 90°)	EXAMPLE: Velocity of the traveling edge of an 8 ft (2.4 m) leaf [in feet/m and (meters/m)]	Longest leaf which can be used if the velocity of the traveling edge is not to exceed 40 fpm (12.2 mpm)
6 sec.	126 fpm (38 mpm)	2.5 ft (0.8 m)
12 sec.	63 fpm (19 mpm)	5 ft (1.5 m)
15 sec.	50 fpm (15 mpm)	6 ft (1.9 m)
17 sec.	44 fpm (14 mpm)	7.5 ft (2.3 m)
23 sec.	33 fpm (10 mpm)	10 ft (3 m)

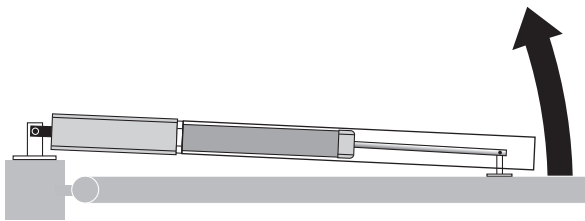
* If you have any questions regarding your application, please call FAAC’s technical department at 1-866-925-3222 or 1-800-221-8278.

DECISION #4: WHAT TYPE OF MOUNTING GEOMETRY?

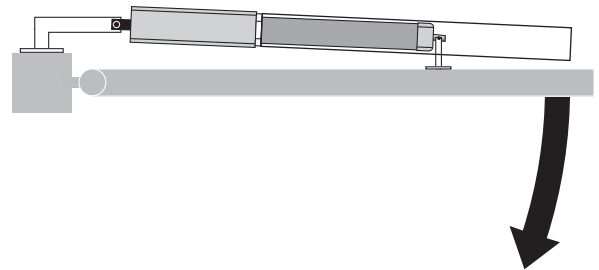
Decisions regarding mounting geometry apply to gate mounted operators: Models 412, 415, 402, 422 and 400.

As shown in the diagrams below, the operators must be mounted at an angle to the gate. Correct mounting geometry assures that the desired degrees of swing are achieved, that the gate speed is correct, and that the operator and gate will operate properly and have a long life.

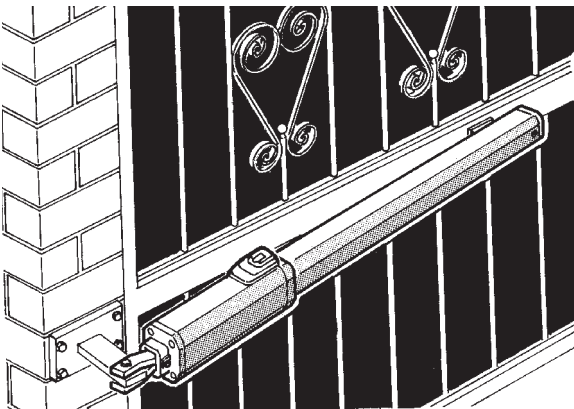
1. Example of a mounting for an inward swinging gate.



2. Example of a mounting for an outward swinging gate.

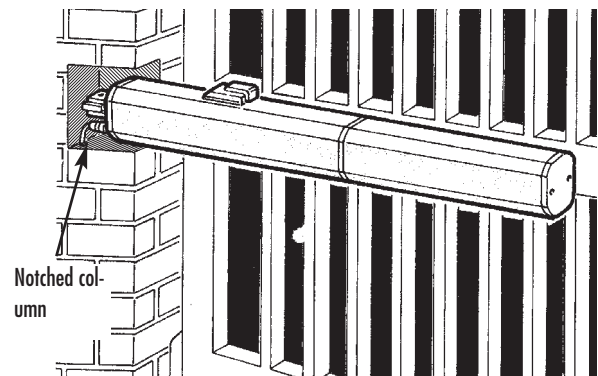


3. Sometimes the mounting measurements will result in a flush mounting



Special Situations

4. Sometimes a column must be notched in order to accommodate the correct mounting geometry.

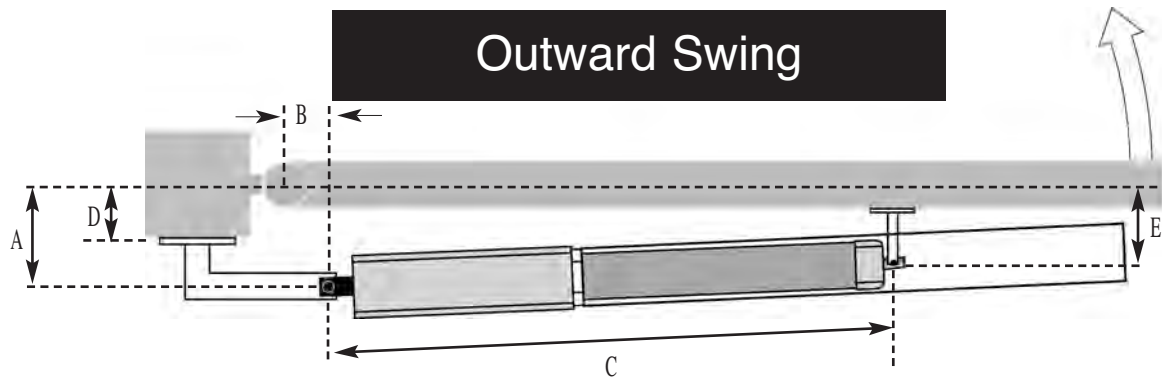


Note: If, in your installation, notching a column is not practical, other solutions are available:

1. Install operators using an outward swing.
2. Upgrade to an operator with more mounting flexibility.
3. Use an in-ground operator (see Model 750 on page 55 or Model 760 on page 63).

* If you have any questions regarding your application, please call FAAC's technical department at 1-866-925-3222 or 1-800-221-8278.

Mounting Geometry



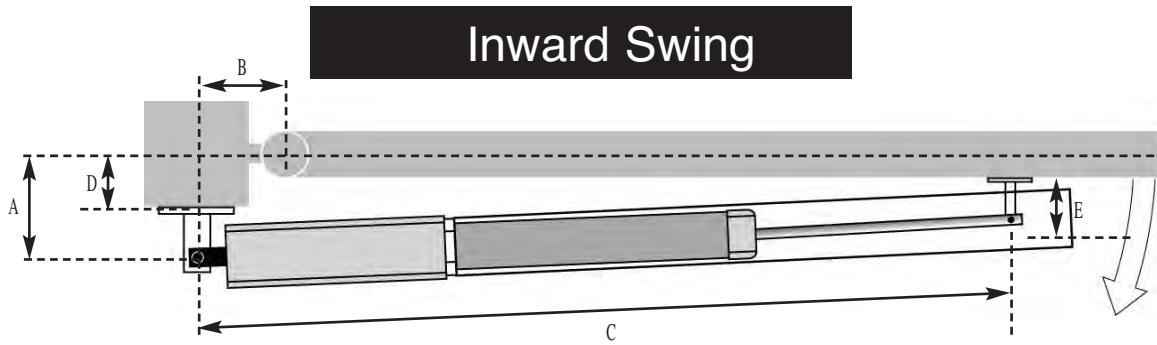
Model		90° Swing	110° Swing	115° Swing	125° Swing
400 standard, high speed, and slow speed models	A	5 in. (12.7 cm)	-	4 in. (10 cm)	-
	B	5 in. (12.7 cm)	-	4.75 in. (12 cm)	-
	C	28 in. (71.12 cm)	-	28 in. (71.12 cm)	-
	D	not a constraint	-	not a constraint	-
400 EG (Extended Geometry)	A	7.875 in. (20 cm)* or 11 in. (29 cm)**	-	5.75 in. (14.6 cm)**	4.75 in. (13 cm)
	B	7.5 in. (19 cm)* or 3 in. (7.5 cm)**	-	7 in. (17.8 cm)	6.625 in. (17 cm)
	C	32.75 in. (83.19 cm)	-	32.75 in. (93.19 cm)	32.75 in. (83.19 cm)
	D	not a constraint	-	not a constraint	not a constraint
402	A	4.5 in. (11.4 cm)	-	-	-
	B	4.5 in. (11.4 cm)	-	-	-
	C	26.25 in. (66.68 cm)	-	-	-
	D	not a constraint	-	-	-
412	A	5.75 in. (14.5 cm)	4.875 in. (12.5 cm)	-	-
	B	5.75 in. (14.5 cm)	4.875 in. (12.5 cm)	-	-
	C	24 in. (60.96 cm)	24 in. (60.96 cm)	-	-
	D	not a constraint	not a constraint	-	-
422	A	4.75 in. (12 cm)	-	-	-
	B	4.75 in. (12 cm)	-	-	-
	C	28.25 in. (71.45 cm)	-	-	-
	D	not a constraint	-	-	-
422 VHS	A	3.125 in. (7.94 cm)	-	-	-
	B	3.125 in. (7.94 cm)	-	-	-
	C	23.75 in. (60.33 cm)	-	-	-
	D	not a constraint	-	-	-
All Models	E	Must be less than A			

* For A and B, if you choose one of these values with one asterisk, then you must choose the other values with one asterisk; the values assume a column that measures less than 20" square.

** For A and B, if you choose one of these values with two asterisk, then you must choose the other values with two asterisk; the values assume a column that measures less than 20" square.

* Measurements and weights stated in this Price List are approximate. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278 or 1-866-925-3222.

Mounting Geometry



Model		90° Swing	110° Swing	115° Swing	125° Swing
400 standard, high speed, and slow speed models	A	5 in. (12.7 cm)	–	4 in. (10 cm)	–
	B	5 in. (12.7 cm)	–	4.75 in. (12 cm)	–
	C	38.1875 in. (71.12 cm)	–	38.1875 in. (97 cm)	–
	D	up to 4 in. (10 cm)	–	up to 2 in. (5 cm)	–
400 EG (Extended Geometry)	A	7.875 in. (20 cm)* or 11.5 in. (29 cm)**	–	5.75 in. (14.6 cm)**	4.75 in. (13 cm)
	B	7.5 in. (19 cm)* or 3 in. (7.5 cm)**	–	7 in. (17.8 cm)	6.625 in. (17 cm)
	C	47.625 in. (121 cm)	–	47.5 in. (120 cm)	47.5 in. (120 cm)
	D	up to 5.25 in. (14 cm)* or 10 in. (25.5 cm)**	–	up to 3.5 in. (8.9 cm)**	up to 2.875 in. (7 cm)
402	A	4.5 in. (11.4 cm)	–	–	–
	B	4.5 in. (11.4 cm)	–	–	–
	C	35.5 in. (90.2 cm)	–	–	–
	D	2 in. (5.1 cm)***	–	–	–
412	A	5.75 in. (14.5 cm)	4.875 in. (12.5 cm)	–	–
	B	5.75 in. (14.5 cm)	4.875 in. (12.5 cm)	–	–
	C	36.25 in. (92.1 cm)	36.25 in. (92.1 cm)	–	–
	D	up to 4 in. (10 cm)	up to 3.125 in. (8 cm)	–	–
422	A	4.75 in. (12 cm)	–	–	–
	B	4.75 in. (12 cm)	–	–	–
	C	36.25 in. (92.1 cm)	–	–	–
	D	up to 2 in. (5.1 cm)***	–	–	–
422 VHS	A	3.125 in. (7.94 cm)	–	–	–
	B	3.125 in. (7.94 cm)	–	–	–
	C	30.25 in. (76.84 cm)	–	–	–
	D	up to 2 in. (5.1 cm)***	–	–	–
All Models	E	Must be less than A			

* For A, B, and D, if you choose one of these values with one asterisk, then you must choose the other values with one asterisk; the values assume a column that measures less than 20" square.

** For A, B, and D, if you choose one of these values with two asterisk, then you must choose the other values with two asterisk; the values assume a column that measures less than 20" square.

*** If greater than this value, construct a recess liner.

* Measurements and weights stated in this Price List are approximate. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278 or 1-866-925-3222.

Visit us online at

www.faacusa.com

Model 412

Electromechanical Swing Gate Operator



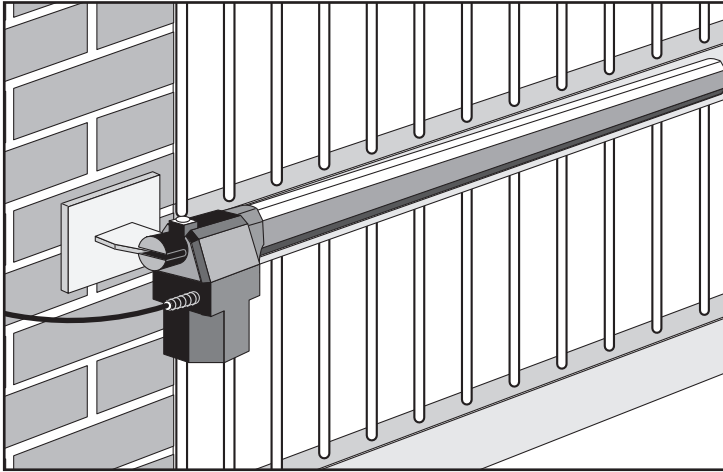
- . Designed for residential applications
- . Two year limited warranty
(see back cover)

FAAC operators for swinging gates are among the safest available. The anti-entrapment and safety provided by all gate operators can and should be improved with photocells, loop detectors, sensing edges and/or other similar devices. FAAC strongly recommends that devices such as these be installed with all automated gate systems.

To guarantee the safety and efficiency of its equipment, FAAC strongly recommends that qualified personnel test the safety system on an annual basis, as well as maintain the overall hydraulic or mechanical system.

Model 412

Model 412 | Electromechanical Swing Gate Operator



The Model 412's electromechanical operation is ideal for residential applications.

- Designed for light residential, single family use
- UL 325 compliant
- Mechanical locking in the opened and closed positions
- Easy interconnection of loop detectors, photocells, etc. to reverse a gate if an obstacle is sensed
- Easy interconnection of actuating devices like remote control radios, key pads and telephone entry systems
- On-board diagnostic LEDs
- Convenient manual release in case of power failure

The 412 is not recommended for use with solid gates or in high wind situations.

Model 412 HIGH VOLTAGE includes:

- One 455 D control panel which operates single leaf or master/slave gates
- Choice of 6 operating modes including:
 - "pulse-to-open, pulse-to-close"
 - automatic timed closure
 - "man present" (separate open and close contacts)
- 30 VDC power for accessories
- 115 VAC

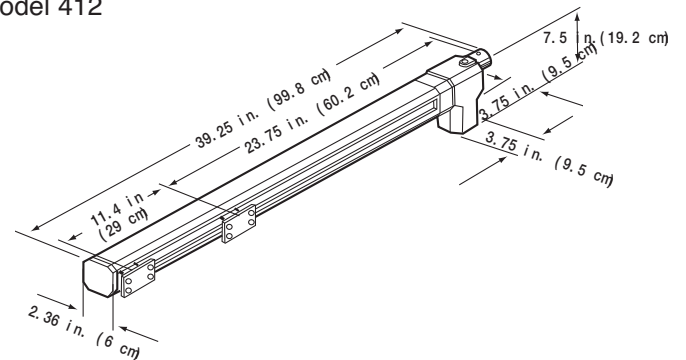
Model 412 Operating Specifications

Parameter	High Voltage
Application	Single family residence, single leaf or bi-parting gate (vehicles only, not for pedestrian use) (not recommended for solid gates)
Cycles per hour	18
Maximum gate swing	110 degrees
90 degree opening time	13 seconds
Maximum weight per gate leaf	500 pounds, (226.8 kg)
Maximum length per gate leaf	14 feet (4.2 m)
Approx. operating temperature range	-4°F to 131°F (-20°C to 55°C)
Mechanical locking	Available in opened and closed positions
Voltage	115 VAC

Model 412 kit for bi-parting gates: major components (not to scale)



Model 412



Note: Operator specifications are approximate. Environmental factors can change the performance of the operator. Your installer will advise you which model of operator will work best for your site and application.

* Measurements and weights stated in this Price List are approximate and subject to change without notice. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278 or 1-866-925-3222.

Model 412 | Electromechanical Swing Gate Operator

Model Description	Package Includes	Shipping Weight	Voltage	Part Number	Price
Model 412 kit for Bi-Parting Gates	OPTION 1: 1 DX & SX operator & cover w/ mounting hardware 455 D Control panel w/10 x 12 in. enclosure 1 radio receiver, 2 radio transmitters, 2 manual release keys, 2 photobeam sets, 4 warning signs	50 lb (22.7 kg)	115 VAC	412BP1-R+	\$2,276
	OPTION 2: Same options except 14 X 16 pre-wired enclosure		115 VAC	412BP1S-R+	\$2,545
Model 412 DX KIT for Single Leaf RIGHT HINGED GATE	1 DX operator & cover 455 D Control panel w/10 x 12 in. enclosure & mounting hardware 1 radio receiver, 2 radio transmitters 2 manual release keys, 2 photobeam sets 2 warning signs w/14x16 prewired	36 lb (16.3 kg)	115 VAC	412DX1-R+	1,611
				412DX1S-R+	2,053
Model 412 SX KIT for Single Leaf LEFT HINGED GATE	1 SX operator & cover 455 D Control panel w/10 x 12 in. enclosure & mounting hardware 1 radio receiver, 2 radio transmitters 2 manual release keys, 2 photobeam sets 2 warning signs w/14x16 prewired	36 lb (16.3 kg)	115 VAC	412SX1-R+	1,611
				412SX1S-R+	2,053
Model 412 DX operator for Single Leaf RIGHT HINGED GATE	1 DX operator & cover	20 lb (9.1 kg)	115 VAC	104475	787
Model 412 SX operator for Single Leaf LEFT HINGED GATE	1 SX operator & cover	20 lb (9.1 kg)	115 VAC	104476	787



Model 455D control panel with 10x12 enclosure

Model 412 operators require a Model 455 D control panel, which can operate a single leaf or master/slave gate system.

The 455D has the following functions and features:

- Operates a single leaf or a bi-parting gate
- Provides opening and closing "slow down, soft stop" convenience
- Power supply: 115 VAC (+/- 10%) or 230 VAC (+6% -10%) 50-60 HZ
- Absorbed power: 10W
- Motor max load: 800W
- Accessories max load: .5 amp
- Electric lock max load: 15 Va
- Operating temperature: -78°F to +131°F
- Protection fuses: .800 mA (accessories) 5 amp (motors)
- Operating logics:
 - A** (automatic): signal to open, gate closes automatically after selected timed pause
 - S** (security): similar to A logic, useful in reducing tailgating
 - E** (semi-automatic): garage door-like operation; signal to open, signal to close
 - EP** (semi-automatic): similar to E logic, but second signal stops gate, third signal reverses gate
 - B** (manned, pulsed): designed for guard station use, requires 3-button switch (pulsed) to open, close and stop gate
 - C** (manned, constant): similar to B logic, but 3-button switch requires constant pressure on each button
- Opening/closing time: 0 to 120 seconds (programmable)
- Pause time: 0 to 4 minutes (programmable)
- Closing leaf delay: 0 to 4 minutes (programmable)
- Opening leaf display: 2 seconds (can be disabled)
- Torque: adjustable from 0 to 50 levels
- On board programming via push button
- Easy interconnection of actuating and reversing devices
- Open/Hold open function

To complete your gate system, or for replacement purposes, the following accessories can be ordered:

Accessory	Description	Shipping Weight	Voltage	Part Number	Price
Photobeam	Directional with diagonal alignment; required for UL-325 compliance.	2 lb (1 kg)		785163	\$244
Photobeam Mounting Post Standard	Foundation plate included	5 lb (2.2 kg)		401028/ 737630+	123
Photobeam Mounting Post Double	Foundation plate included	9 lb (4.1 kg)		401035/ 737630+	198
Photocell Set: also requires Photocell Metal Housing or Photocell Plastic Housing		2 lb (1 kg)		785152	299
		3 lb (1.4 kg)		720089	44
		2 lb (1 kg)		720086	9
Receiver	FAAC single channel	1 lb (.5 kg)		1RP418DS	79
Transmitter	FAAC single button	1 lb (.5 kg)		1TM418DS	45
Transmitter	FAAC two button	1 lb (.5 kg)		787317	53
Antenna	FAAC tuned antenna kit	2 lb (1 kg)		412003	88
Battery Backup	BC Pro Single system backup	45 lb (16.8 kg)	115V	3520	1,806
	BC Pro Dual system backup	45 lb (16.8 kg)	115V	3522	2,048
	700i Single system backup	45 lb (16.8 kg)	230V	3521	1,806
	700i Dual system backup	45 lb (16.8 kg)	230V	3523	2,048
Control panel	455D (replacement only)	3 lb (1.4 kg)	115V	790919	730
			230V	790926	730
	455D w/ 14 x 16 fiberglass, hinged, lockable enclosure	26 lb (11.8kg)	115V	455D115F+	1,224
	10x12 Enclosure w/ backplate		230V	455D220F+	1,224
					252
Positive Stop	412 Adjustable Stop			2631	185

Model 412 | Electromechanical Swing Gate Operator

FAAC Model BC Pro 1050 and Model 700i battery back-up units



Model BC Pro 1050 battery back-up

Ideal usage for the BC Pro and 700i battery backup systems: **Fail safe** (gates open during power outage and remain open until power is restored). Even if the power outage is prolonged and the batteries die, the gates will remain open to allow normal ingress and egress during the power outage.

Because the BC Pro and 700i battery backup systems run off the batteries, gate operation during a power outage is dependant upon the batteries being well conditioned and charged. If they are not, the voltage does not run through to the control panel being backed up. The battery backup system does not shut down at all during a power outage, instead powering all peripherals being backed up with our battery backup system. Thus, the more peripherals used, the faster the batteries will die. Once the batteries do die, the gates will become inoperable and will stop at the position they were at when the batteries failed. Therefore, it is important to understand that the BC Pro or 700i battery backup systems are not intended to work a **Fail secure**

Specifications	BC Pro 1050	700i
Size:	14 x 16 x 6 in. (35.6 x 40.6 x 15.2 cm)	
Weight:	45 lbs. (16.8 kg)	
Input/Output voltage:	115 VAC	230 VAC
Input/Output frequency:	60 Hz	50/60 Hz
Output VA:	1050	700
Output watts:	680	450
Recharge rate to 90%:	2-4 hours	
Maximum surge current:	36,000 amps	160*
<small>*AC suppression joule/amp ratings</small>		
Low volt switch to battery:	94 VAC	190 VAC
Max amp. draw:	5 amp.	3 amp.
Shipping Weight:	45 lbs. (16.8 kg)	
Part Number:	3520	3521
Price:	\$1,806	\$1,806
Dual Configuration:		
Dual System Part Number:	3522	3523
Price	2,048	2,048

application (gates remain closed during power outage). Again, long term power outages could result in the batteries failing at some point, possibly leaving the gates either partially or fully open or closed.

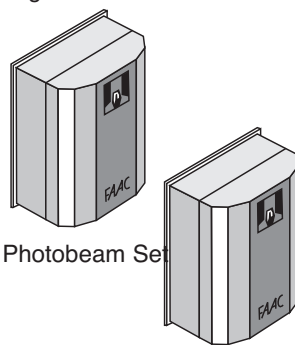
FAAC Photobeam Systems

Photobeam Photocell Set

Designed for wall mounting or for mounting in special extruded aluminum mounting posts.

Features:

- Directional photocell with diagonal alignment
 - Angle of detection: ± 4 degrees
 - Range: 100 ft (30 m)
 - Obstacle detection time: 10 ms
 - Housing protection IP 54
 - Required power supply: 24-35 VDC (available on FAAC control panels)
 - Output relay rating: 100 MA/24VDC
 - Output relay: N.O. (Normally Opened) and N.C. (Normally Closed)
 - Receiver and Transmitter provide reliable all-weather sensing
- Dimensions: 2.75 in. x 3.75 in. x 1.75 in. (7 cm x 9.5 cm x 4.5 cm)



Photobeam Set

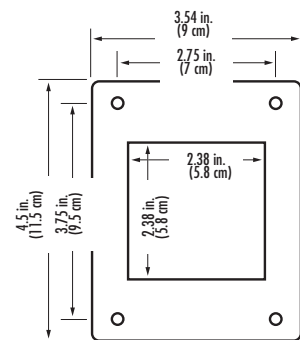
Photobeam Mounting Posts (Standard and Double)

Photobeam Mounting Post and Foundation Plate for Photobeam Set

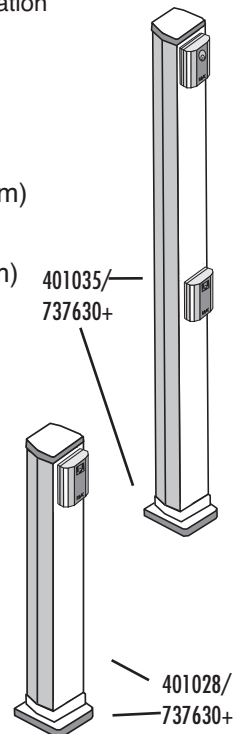
Features:

- Anodized aluminum
- Standard post: 22 in. high (57.5 cm)
- Double post (holds photobeam and control switch): 44 in. (111.5 cm)

NOTE: Photobeam sets require 2 posts



Mounting Post Footprint



* Measurements and weights stated in this Price List are approximate and subject to change without notice. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278 or 1-866-925-3222.

Model 412 | Electromechanical Swing Gate Operator

FAAC Photocell Systems

Standard Photocell Set

Dimensions: 2.75 in. wide x 2.75 in. high x 4 in. deep (7 cm x 7 cm x 10.2 cm)

Depth measurement includes housing.

The Standard Photocell Set requires the following additional equipment (priced separately):

Multi-Use Metal Housing, or Multi-Use Plastic Housing

Features:

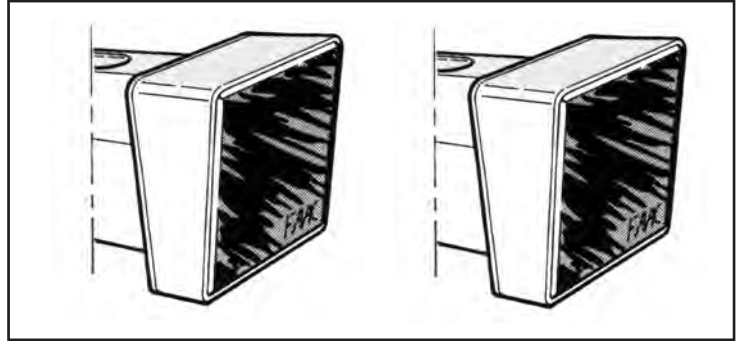
Required power supply: 19 - 34 VDC or 15 - 25 VAC (available on FAAC control panels).

Output relay rating: 25 VAC, 0.1A

Output relay: N.O. (Normally Opened) and N.C. (Normally Closed)

Transmitter to receiver sensing provides reliable all-weather sensing

Range: 90 ft (27 m)



Standard Photocell Set

Part #: 785152

List: \$299

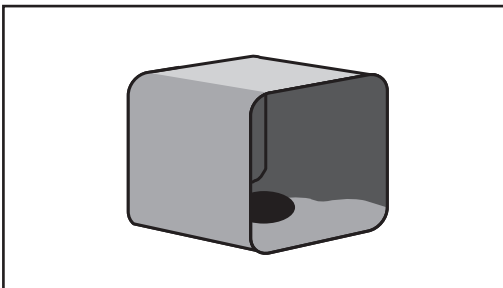
Entry System Devices

Photocell Metal Housing

Powder coated steel.

Dimensions:

2.5 in. high x 2.5 in. wide x 2.75 in. deep
(6.4 cm x 6.4 cm x 7 cm)



Photocell Metal Housing

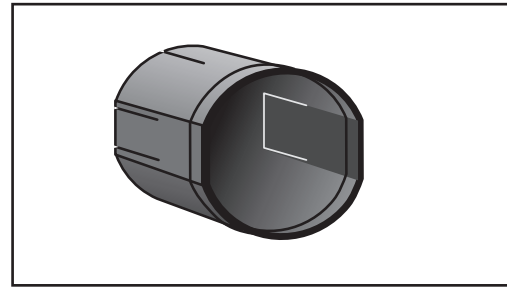
Part #: 720089

List: \$44

Photocell Plastic Housing

Dimensions:

2.5 in. high x 2.25 in. wide x 2.75 in. deep
(6.4 cm x 5.7 cm x 7 cm)



Photocell Plastic Housing

Part #: 720086

List: \$9

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Model 415 Electromechanical Swing Gate Operator



- Designed for residential applications
- Two year limited warranty (see back cover)

FAAC operators for swinging gates are among the safest available. The anti-entrapment and security protection provided by all gate operators can and should be improved with photocells, loop detectors, sensing edges and/or other similar devices. FAAC strongly recommends that devices such as these be installed with all automated gate systems.

To guarantee the safety and efficiency of its equipment, FAAC strongly recommends that qualified personnel test the safety system on an annual basis, as well as maintain the overall hydraulic or mechanical system.

Model 415

Model 415 | Electromechanical Swing Gate Operator

The Model 415 was designed to provide power and versatility to an economical residential swing operator.

Features

- Sleek design
- Sealed limit switches

NOTE: If installation does not require electronic slowdown, the internal limit switches can be used as positive stops. If installation DOES require electronic slowdown, **POSITIVE STOPS MUST BE USED IN PLACE OF LIMITS.**

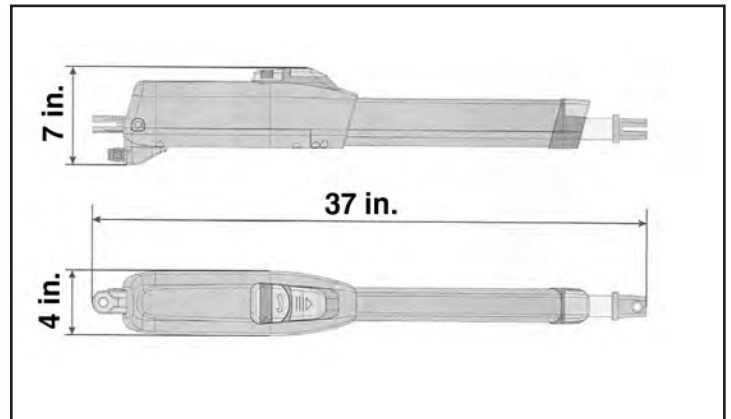
When adjusting limit switches, use a hand-held screw driver, NOT A POWER SCREWDRIVER, as this can damage the limit switches.

- Operates even in case of power failure (with optional battery back-up and subject to battery condition)
- Reverse on contact
- Slow down “soft stop”

UL 325
COMPLIANT
CSI # 02820 -
Gate Operators



Model 415



Model 415 dimensions

Specifications	
Duty Cycle (cycles per hour)	25
Maximum Gate Swing	110 Degrees
90 Degree Opening Time	13 Seconds
Maximum Weight Per Gate Leaf	700 pounds (317.5 kg)
Maximum Length Per Gate Leaf	15 feet (4.6m)
Approximately Operating Temperature Range	-4°F - 131°F (-20°C - 55°C)
Voltage	115 VAC
Power Consumption	300W
Current Consumption	2.5 A
Effective Stroke	15 in. (38.1cm)
Protection Class	Nema 4x

NOTE: Operator specifications are approximate. Environmental factors can change the performance of the operator.

Model 415 | Electromechanical Swing Gate Operator



Model	Package Includes	Shipping Wt (approx.)	Voltage	Part Number	Price
Model 415 Basic Single Kit	Option #1 Operator, 455D control panel, 10x12 in. enclosure	46 lbs. (20.9 kg)	115 VAC	1044182.5+	\$1,644
	Option #2 Operator, 455D control panel, 14x16 in. pre-wired enclosure	65 lb (29.5 kg)	115 VAC	1044182.5L+	\$2,081

Model	Package Includes	Shipping Wt (approx.)	Voltage	Part Number	Price
415 Operator Only	Use to make the single kit into a master/slave (bi-parting) kit; or use to order replacement operator.	25 lbs. (11.3 kg)	115 VAC	1044182	\$914

To complete your gate system, or for replacement purposes, the following accessories can be ordered:

Accessory	Description	Shipping Weight	Voltage	Part Number	Price
Photobeam	Directional with diagonal alignment; required for UL-325 compliance.	2 lb (1 kg)		785163	\$244
Photobeam Mounting Post Standard	Foundation plate included	5 lb (2.2 kg)		401028/ 737630+	123
Photobeam Mounting Post Double	Foundation plate included	9 lb (4.1 kg)		401035/ 737630+	198
Photocell Set: also requires Photocell Metal Housing or Photocell Plastic Housing		2 lb (1 kg)		785152	299
		3 lb (1.4 kg)		720089	44
		2 lb (1 kg)		720086	9
Receiver	FAAC single channel	1 lb (.5 kg)		1RP418DS	79
Transmitter	FAAC single button	1 lb (.5 kg)		1TM418DS	43
Transmitter	FAAC two button	1 lb (.5 kg)		787317	53
Antenna	FAAC tuned antenna kit	2 lb (1 kg)		412003	88
Loop Detector	DSP 15	1 lb (.5 kg)		2664	233
Loop Detector	DSP II; plugs in control panel backplate	1 lb (.5 kg)		2665	139
Loop Detector	DSP 10; plugs in control panel backplate & has sensitivity adjustment	1 lb (.5 kg)		2667	152
Shadow Detector kit (DPS 11)	Includes one detector, base, and relay for shadow loop	1 lb (.5 kg)	115V	2665.1+	209
			230V	2665.2+	209
Shadow Detector kit (SP 10)	Includes one detector, base, and relay for shadow loop	1 lb (.5 kg)	115V	2667.1+	220
			230V	2667.2+	220
Mag Lock Relay Kit	Includes base & relay for mag lock		24V ac	2352	49
Battery Backup	BC Pro Single system backup	45 lb (16.8 kg)	115V	3520	1,806
	BC Pro Dual system backup	45 lb (16.8 kg)	115V	3522	2,048
Control panel	455D (replacement only)	3 lb (1.4 kg)	115V	790919	730
			230V	790926	730
	455D w/ 14 x 16 in fiberglass, hinged, lockable enclosure	26 lb (11.8kg)	115V	455D115F+	1,224
			230V	455D220F+	1,224
Transmitter	4 Channel Transmitter XT4 433 RC			787453	23
Receiver	Receiver 433 RC Plug In			787741	43

Model 415 operators require a Model 455 D control panel, which can operate a single leaf or master slave gate system.

Option #1



Model 455D control panel in 10x12 in. enclosure

Option #2



Model 455D control panel in 14x16 in. pre-wired enclosure

* Measurements and weights stated in this Price List are approximate and subject to change without notice. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278 or 1-866-925-3222.

Model 415 | Electromechanical Swing Gate Operator

FAAC Model BC Pro 1050 and Model 700i battery back-up units



Model BC Pro 1050 battery back-up

Ideal usage for the BC Pro and 700i battery backup systems: **Fail safe** (gates open during power outage and remain open until power is restored). Even if the power outage is prolonged and the batteries die, the gates will remain open to allow normal ingress and egress during the power outage.

Because the BC Pro and 700i battery backup systems run off the batteries, gate operation during a power outage is dependant upon the batteries being well conditioned and charged. If they are not, the voltage does not run through to the control panel being backed up. The battery backup system does not shut down at all during a power outage, instead powering all peripherals being backed up with our battery backup system. Thus, the more peripherals used, the faster the batteries will die. Once the batteries do die, the gates will become inoperable and will stop at the position they were at when the batteries failed. Therefore, it is important to understand that the BC Pro or 700i battery backup systems are not intended to work a **Fail secure**

Specifications	BC Pro 1050	700i
Size:	14 x 16 x 6 in. (35.6 x 40.6 x 15.2 cm)	
Weight:	45 lbs. (16.8 kg)	
Input/Output voltage:	115 VAC	230 VAC
Input/Output frequency:	60 Hz	50/60 Hz
Output VA:	1050	700
Output watts:	680	450
Recharge rate to 90%:	2-4 hours	
Maximum surge current:	36,000 amps	160*
<small>*AC suppression joule/amp ratings</small>		
Low volt switch to battery:	94 VAC	190 VAC
Max amp. draw:	5 amp.	3 amp.
Shipping Weight:	45 lbs. (16.8 kg)	
Part Number:	3520	3521
Price:	\$1,806	\$1,806
Dual Configuration:		
Dual System Part Number:	3522	3523
Price:	\$2,048	\$2,048

application (gates remain closed during power outage). Again, long term power outages could result in the batteries failing at some point, possibly leaving the gates either partially or fully open or closed.

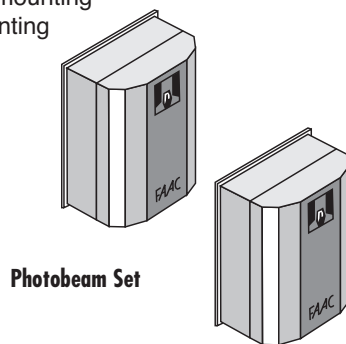
FAAC Photobeam Systems

Photobeam Photocell Set

Designed for wall mounting or for mounting in special extruded aluminum mounting posts.

Features:

- Directional photocell with diagonal alignment
 - Angle of detection: ± 4 degrees
 - Range: 100 ft (30 m)
 - Obstacle detection time: 10 ms
 - Housing protection IP 54
 - Required power supply: 24-35 VDC (available on FAAC control panels)
 - Output relay rating: 100 MA/24VDC
 - Output relay: N.O. (Normally Opened) and N.C. (Normally Closed)
 - Receiver and Transmitter provide reliable all-weather sensing
- Dimensions: 2.75 in. x 3.75 in. x 1.75 in. (7 cm x 9.5 cm x 4.5 cm)



Photobeam Set

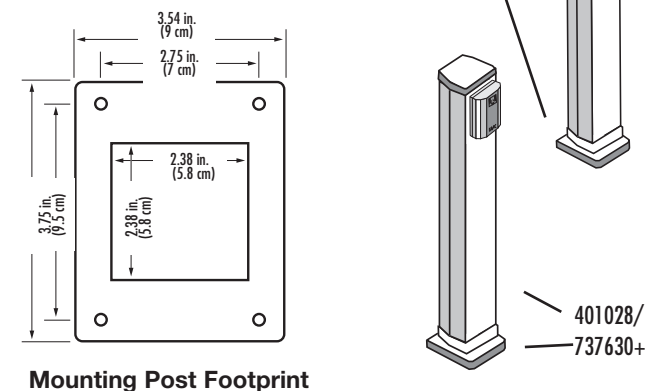
Photobeam Mounting Posts (Standard and Double)

Photobeam Mounting Post and Foundation Plate for Photobeam Set

Features:

- Anodized aluminum
- Standard post: 22 in. high (57.5 cm)
- Double post (holds photobeam and control switch): 44 in. (111.5 cm)

NOTE: Photobeam sets require 2 posts



Mounting Post Footprint

* Measurements and weights stated in this Price List are approximate and subject to change without notice. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278 or 1-866-925-3222.

Model 415 | Electromechanical Swing Gate Operator

FAAC Photocell Systems

Standard Photocell Set

Dimensions: 2.75 in. wide x 2.75 in. high x 4 in. deep
(7 cm x 7 cm x 10.2 cm)

Depth measurement includes housing.

The Standard Photocell Set requires the following additional equipment (priced separately):

Multi-Use Metal Housing, or Multi-Use Plastic Housing

Features:

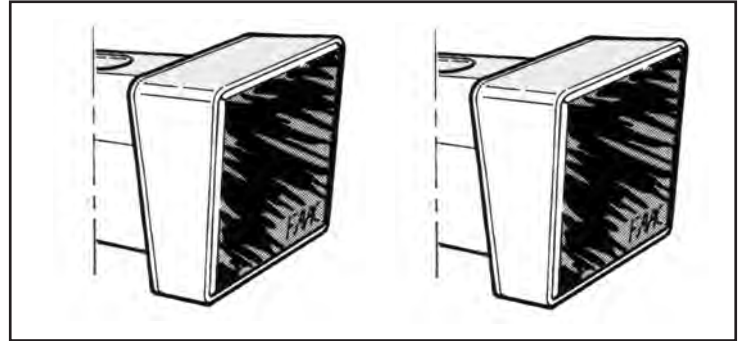
Required power supply: 19 - 34 VDC or
15 - 25 VAC (available on FAAC control panels).

Output relay rating: 25 VAC, 0.1A

Output relay: N.O. (Normally Opened) and N.C.
(Normally Closed)

Transmitter to receiver sensing provides
reliable all-weather sensing

Range: 90 ft (27 m)



Standard Photocell Set

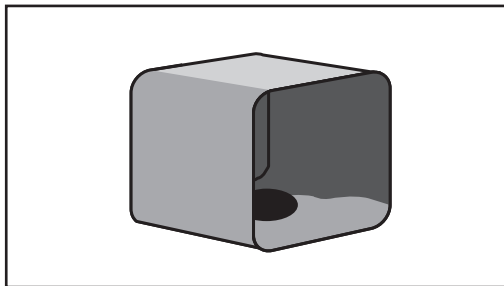
Part #: 785152
List: \$299

Entry Sytem Devices

Photocell Metal Housing

Powder coated steel.

Dimensions:
2.5 in. high x 2.5 in. wide x 2.75 in. deep
(6.4 cm x 6.4 cm x 7 cm)

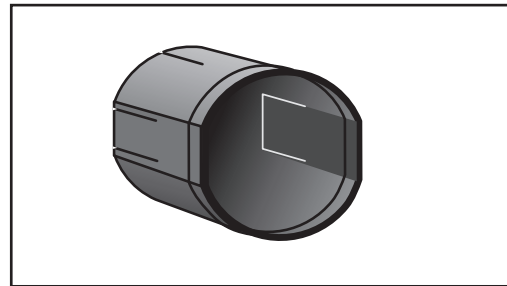


Photocell Metal Housing

Part #: 720089
List: \$44

Photocell Plastic Housing

Dimensions:
2.5 in. high x 2.25 in. wide x 2.75 in. deep
(6.4 cm x 5.7 cm x 7 cm)



Photocell Plastic Housing

Part #: 720086
List: \$9

Model 415 | Electromechanical Swing Gate Operator

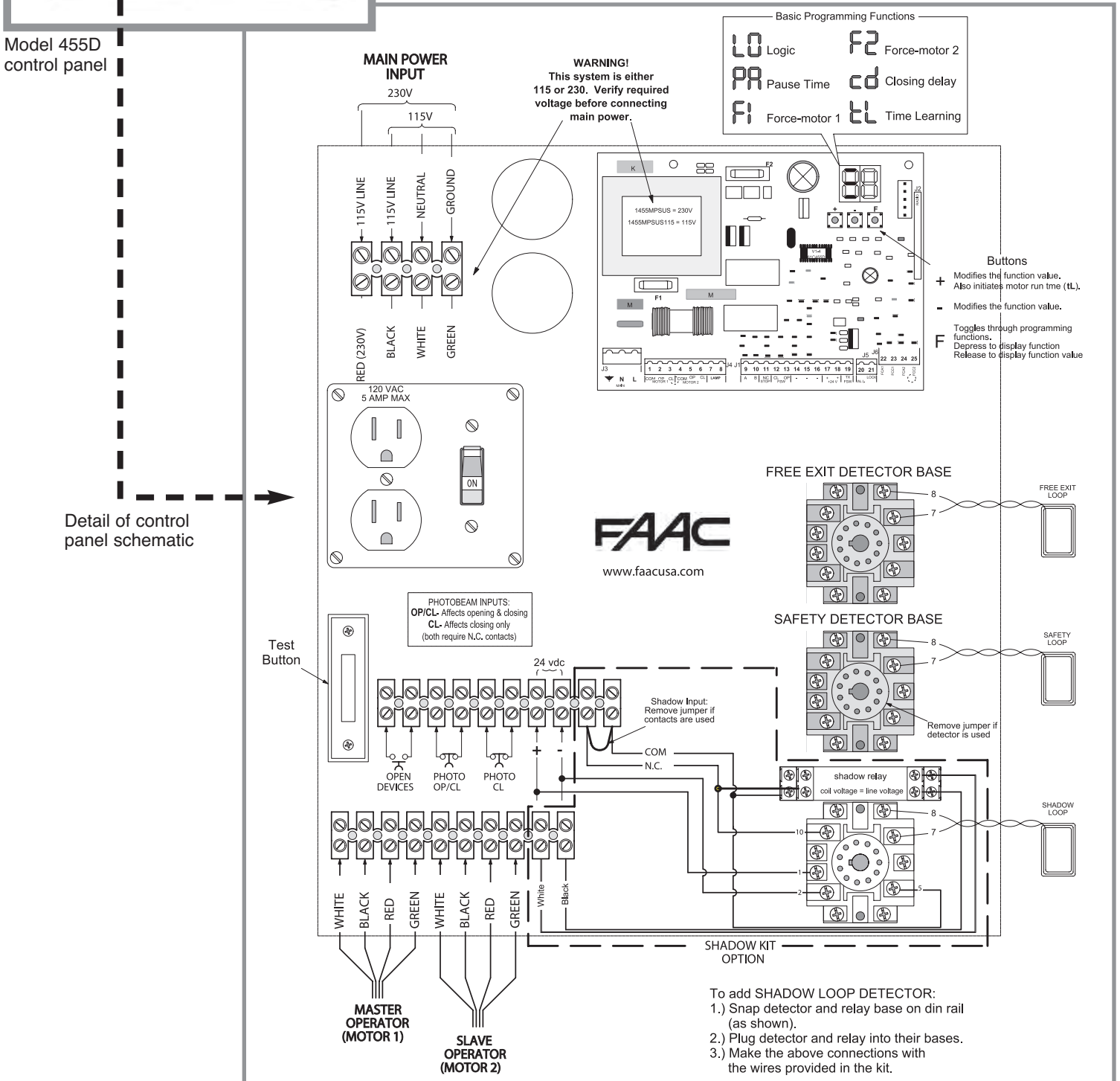
Model 455D control panel



Model 455D control panel

To simplify understanding of the new detector layout, the Model 455 D backplate is shown here with control panel, outlet switch, test button and appropriate terminal strips. Also shown are the new "free exit" and "safety" loop detector plug-in bases. These will come as diagrammed with all enclosures.

The shadow loop detector can be added as an option. The shadow kit is comprised of another base, detector, and relay. These items are shown in the diagram within the bold, broken line section with instructions below.



Detail of control panel schematic

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Model 400 Hydraulic Swing Gate Operator



- Designed for heavy duty applications
- Two year limited warranty
(see back cover)

FAAC operators for swinging gates are among the safest available. The anti-entrapment and safety provided by all gate operators can and should be improved with photocells, loop detectors, sensing edges and/or other similar devices. FAAC strongly recommends that devices such as these be installed with all automated gate systems.

To guarantee the safety and efficiency of its equipment, FAAC strongly recommends that qualified personnel test the safety system on an annual basis, as well as maintain the overall hydraulic or mechanical system.

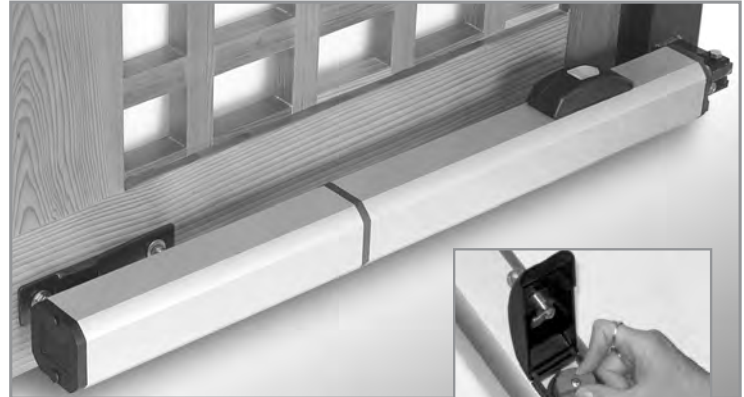
Model 400

Model 400 | Hydraulic Swing Gate Operator



The Model 400 heavy duty operator is designed specifically for situations needing maximum versatility such as apartment, subdivision, commercial/industrial and residential applications.

- Adjustable hydraulic pressures to control force
- Minimized pinch points
- Available hydraulic locking of the gate available in open and/or closed position
- Quiet operation
- Self-lubricating for long life
- Maximum leaf length: 20 ft (6 m) - see chart below
- Maximum leaf weight: 2000 lb (907 kg) - see chart below
- Maximum cycles per hour: 80
- Two year warranty (see back cover)



Model 400



Model 400 manual release

Definitions:

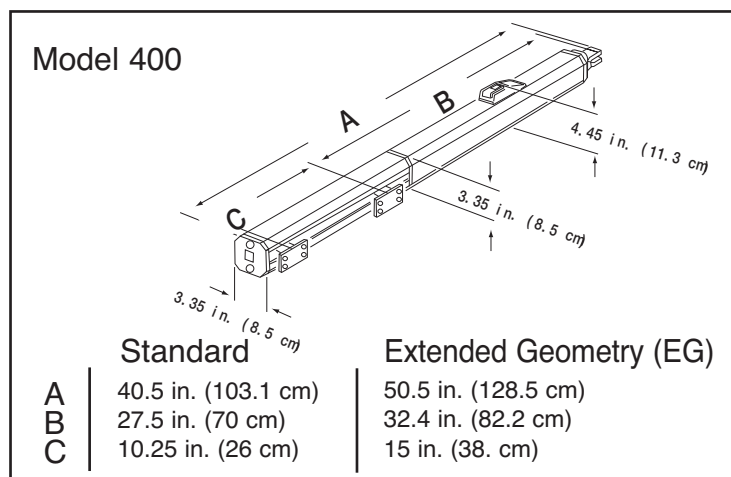
- CBAC:** hydraulic locking open & closed; normal swing speed
- CBA/CBC:** hydraulic locking open/closed; normal swing speed
- SB:** without hydraulic locking; normal swing speed
- SBS:** without hydraulic locking; slower swing speed

Version	Max. Leaf Length	Max. Leaf Weight	Time to Travel 90°	Max. Angle of Opening	Cycles Per Hour	Shipping Weight	Operator Locking			
							Inward Swing Position		Outward Swing Position	
							Opened	Closed	Opened	Closed
CBACR 400	12 ft (3.6 m)	900 lb (408 Kg)	12 sec	115°	80	29 lb (13.2 kg)				
CBAC 400	16 ft (4.9 m)	1300 lb (589.7 Kg)	17 sec	115°	80	29 lb (13.2 kg)	•	•	•	•
CBAC 400 EG	18 ft (5.5 m)	1500 lb (680.4 Kg)	18 sec	125°	80	34 lb (15.4 kg)	•	•	•	•
SB 400	18 ft (5.5 m)	1600 lb (725.8 Kg)	17 sec	115°	80	29 lb (13.2 kg)				
SB 400 EG	20 ft (6.1 m)	1800 lb (816.5 Kg)	18 sec	125°	80	34 lb (15.4 kg)				
SBS 400	20 ft (6.1 m)	2000 lb (907.2 Kg)	23 sec	115°	50	29 lb (13.2 kg)				

NOTE: To simplify ordering the right Model 400 that will work best for your application, you only need to answer one basic question: **What is the maximum length of the gate leaf?**

All models listed **can be converted to CBAC, CBC, SB or SBS** upon request.

Positive Gate Stops, which limit gate travel, are required in the opened and closed positions.



NOTE: FAAC hydraulic operators are not recommended for use on solid-faced gates which are subject to gusty and/or high wind situations. Solid-faced is defined as 50% or more of the gate being solid. If you still have questions regarding your specific installation, please contact our technical department at 1-800-221-8278.

* Mounting dimensions, wind factor and gate design will affect performance specifications

* Duty cycle is measured in an ambient temperature of 72 degrees F (20 degrees C) and 115 or 230 VAC. Variations in temperature and fluctuation of voltages will also affect duty cycle.

* An electric or magnetic lock is recommended for any gate longer than 12 feet (3.7 m).

Model 400 | Hydraulic Swing Gate Operator

Model Description	Package Includes	Shipping Wt.	Voltage	Part No.	Price
400 CBAC Standard Basic Single Kit	400 CBAC operator, 455D control panel, pre-wired 14x16 enclosure	54 lb (24.5 kg)	115V	10420112.5+	\$2,925
			230V	1042011.5+	2,925
400 CBACR Rapid Basic Single Kit	400 CBACR operator, 455D control panel, pre-wired 14x16 enclosure	54 lb (24.5 kg)	115V	10420712.5+	3,071
			230V	1042071.5+	3,071
400 CBAC EG (long) Basic Single Kit	400 CBAC EG operator, 455D control panel, pre-wired 14x16 enclosure	54 lb (24.5 kg)	115V	10420212.5+	3,157
			230V	1042021.5+	3,157

To make the above a master/slave (bi-parting) system, use the following:

Model Description	Package Includes	Shipping Wt.	Voltage	Part No.	Price
400 CBAC Standard Operator only	Use to make the single kit into a master/slave, or use to order replacement operator.	29 lb (13.2 kg)	115V	104201125	\$1,906
			230V	1042011	1,906
400 CBACR Rapid Operator only		29 lb (13.2 kg)	115V	10420712	2,021
			230V	1042071	2,021
400 CBAC EG Operator Only		34 lb (15.4 kg)	115V	104202125	2,162
			230V	1042021	2,162

To complete your gate system, or for replacement purposes, the following accessories can be ordered:

Accessory	Description	Shipping Weight	Voltage	Part Number	Price
Photobeam	Directional with diagonal alignment;	2 lb (1 kg)		785163	\$244
Photobeam Mounting Post: Standard	Foundation plate included	5 lb (2.2 kg)		401028/ 737630+	123
Photobeam Mounting Post: Double	Foundation plate included	9 lb (4.1 kg)		401035/ 737630+	198
Photocell Set: also requires Photocell Metal Housing or Photocell Plastic Housing		2 lb (1 kg)		785152	299
		3 lb (1.4 kg)		720089	44
		2 lb (1 kg)		720086	9
Receiver	FAAC single channel	1 lb (.5 kg)		1RP418DS	79
Transmitter	FAAC single button	1 lb (.5 kg)		1TM418DS	45
Transmitter	FAAC two button	1 lb (.5 kg)		787317	53
Antenna	FAAC tuned antenna kit	2 lb (1 kg)		412003	88
Loop Detector	DSP 15	1 lb (.5 kg)		2664	233
Loop Detector	DSP II; plugs in control panel backplate	1 lb (.5 kg)		2665	139
Loop Detector	DSP 10; plugs in control panel backplate & has sensitivity adjustment	1 lb (.5 kg)		2667	152
Shadow Detector kit relay for shadow loop	Includes one detector, base, and	1 lb (.5 kg)	115V	2665.1+	209
			230V	2665.2+	209
Shadow Detector kit (SP 10)	Includes one detector, base, and relay for shadow loop	1 lb (.5 kg)	115V	2667.1+	220
			230V	2667.2+	220
Mag Lock Relay Kit	Includes base & relay for mag lock		24V ac	2352	49
Positive Stop	Mdl 84, 4-rod internal stop, 400 Std.	4 lb (1.8 kg)		490109	227
				490043	227
Battery Backup	BC Pro Single system backup	45 lb (16.8 kg)	115V	3520	1,806
	BC Pro Dual system backup	45 lb (16.8 kg)	115V	3522	2,048
	700i Single system backup	45 lb (16.8 kg)	230V	3521	1,806
	700i Dual system backup	45 lb (16.8 kg)	230V	3523	2,048
	BBU replacement board		115V	3233	1,200
	BBU replacement board		230V	3234	781
Control panel	455D (replacement only)	3 lb (1.4 kg)	115V	790919	730
			230V	790926	730
	455D w/ 14 x 16 in fiberglass, hinged, lockable enclosure	26 lb (11.8kg)	115V	455D115F+	1,224
	455D w/20x16 metal, hinged enclosure		230V	455D220F+	1,224
			115V	455D115A+	1,465
			230V	455D230A+	1,465
Transmitter	4 Channel Transmitter 433 RC			787453	23
Receiver	Receiver 433 RC Plug In			787741	42



Model 455D control panel

Model 400 operator requires a Model 455D control panel, which can operate a single leaf or master slave gate system. The 455D has a convenient reference diagram on the inside cover.

The 455 D has the following functions and features:

- Operates a single leaf or a bi-parting gate
- Provides opening and closing "slow down, soft stop" convenience
- Power supply: 115 VAC (+/- 10%) or 230 VAC (+6% -10%) 50-60 HZ
- Absorbed power: 10W
- Motor max load: 800W
- Accessories max load: .5 amp
- Electric lock max load: 15 Va
- Operating temperature: -78°F to +131°F
- Protection fuses: .800 mA (accessories) 5 amp (motors)
- Operating logics:
 - A** (automatic): signal to open, gate closes automatically after selected timed pause
 - S** (security): similar to A logic, useful in reducing tailgating
 - E** (semi-automatic): garage door-like operation; signal to open, signal to close
 - EP** (semi-automatic): similar to E logic, but second signal stops gate, third signal reverses gate
 - B** (manned, pulsed): designed for guard station use, requires 3-button switch (pulsed) to open, close and stop gate
 - C** (manned, constant): similar to B logic, but 3-button switch requires constant pressure on each button
- Opening/closing time: 0 to 120 seconds (programmable)
- Pause time: 0 to 4 minutes (programmable)
- Closing leaf delay: 0 to 4 minutes (programmable)
- Opening leaf display: 2 seconds (can be disabled)
- Torque: adjustable from 0 to 50 levels
- On board programming via push button
- Easy interconnection of actuating and reversing devices
- Open/Hold open function

* Measurements and weights stated in this Price List are approximate and subject to change without notice. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278 or 1-866-925-3222.

Model 400 | Hydraulic Swing Gate Operator

Positive Stops (concealed)



Stop-O-Matic Model 84

This heavy duty, adjustable concealed stop is designed specifically for the Model 400 swing operator equipped with a front flange and mounting studs. It mounts to the operator with four bolts and is built with four oversized, threaded rods.

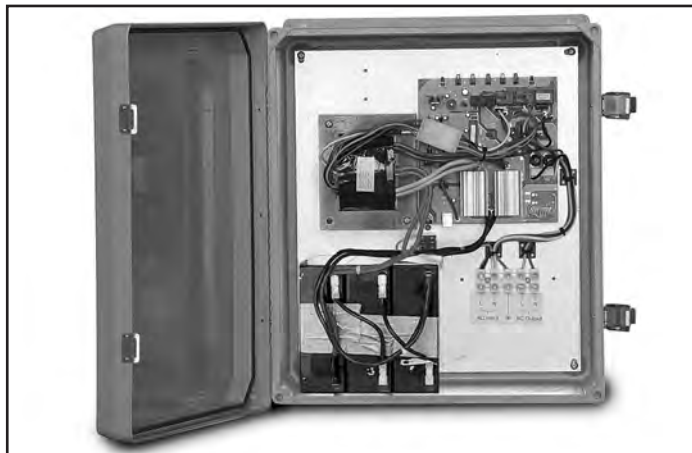
On older Model 400 operators now in service, the front flange can be replaced to accept the Model 84 stop.

Features:

- Designed for Model 400 standard, rapid and long gate mounted operators with a front flange equipped with mounting studs

- Stainless steel construction
- Does not compromise the integrity of the operator
- Mounts with existing FAAC hardware and does not require additional mounting points
- Model 84 is totally hidden under the operator cover
- Accommodates inward or outward swinging gates with no additional fabrication
- Fully adjustable, opened and closed positions
- Maximum degrees of swing:
 - 115 degrees - Model 400 standard
 - 125 degrees - Model 400 long
- Maximum leaf weight: 1,300 pounds (Standard)
1500 pounds (EG)

FAAC Model BC Pro 1050 and Model 700i battery back-up units



Model BC Pro 1050 battery back-up

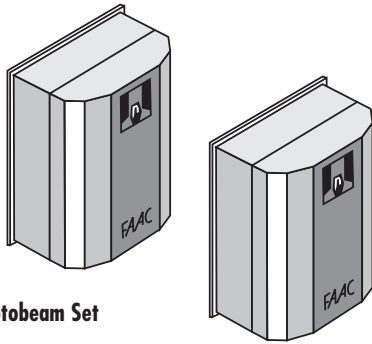
Ideal usage for the BC Pro and 700i battery backup systems: **Fail safe** (gates open during power outage and remain open until power is restored). Even if the power outage is prolonged and the batteries die, the gates will remain open to allow normal ingress and egress during the power outage.

Because the BC Pro and 700i battery backup systems run off the batteries, gate operation during a power outage is dependant upon the batteries being well conditioned and charged. If they are not, the voltage does not run through to the control panel being backed up. The battery backup system does not shut down at all during a power outage, instead powering all peripherals being backed up with our battery backup system. Thus, the more peripherals used, the faster the batteries will die. Once the batteries do die, the gates will become inoperable and will stop at the position they were at when the batteries failed. Therefore, it is important to understand that the BC Pro or 700i battery backup systems are not intended to work a **Fail secure** application (gates remain closed during power outage). Again, long term power outages could result in the batteries failing at some point, possibly leaving the gates either partially or fully open or closed.

Specifications	BC Pro 1050	700i
Size:	14 x 16 x 6 in. (35.6 x 40.6 x 15.2 cm)	
Weight:	45 lbs. (16.8 kg)	
Input/Output voltage:	115 VAC	230 VAC
Input/Output frequency:	60 Hz	50/60 Hz
Output VA:	1050	700
Output watts:	680	450
Recharge rate to 90%:	2-4 hours	
Maximum surge current:	36,000 amps	160*
<small>*AC suppression joule/amp ratings</small>		
Low volt switch to battery:	94 VAC	190 VAC
Max amp. draw:	5 amp.	3 amp.
Shipping Weight:	45 lbs. (16.8 kg)	
Part Number:	3520	3521
Price:	\$1,806	\$1,806
Dual Configuration:		
Dual System Part Number:	3522	3523
Price:	\$2,048	\$2,048

* Measurements and weights stated in this Price List are approximate and subject to change without notice. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278 or 1-866-925-3222.

FAAC Photobeam Systems



Photobeam Set

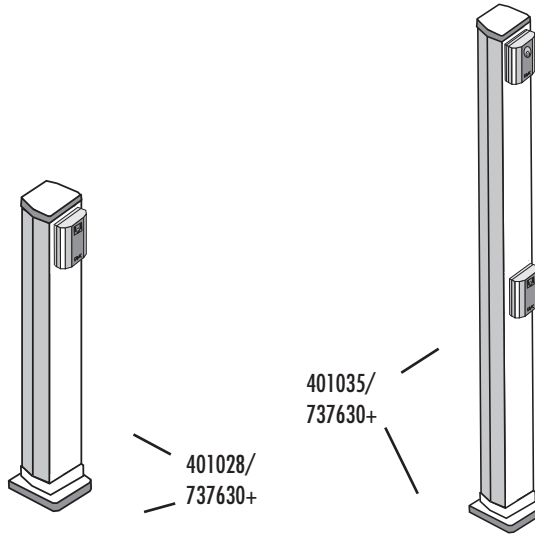
Photobeam Photocell Set

Designed for wall mounting or for mounting in special extruded aluminum mounting posts.

Features:

- . Directional photocell with diagonal alignment
- . Angle of detection: ± 4 degrees
- . Range: 100 ft (30 m)
- . Obstacle detection time: 10 ms
- . Housing protection IP 54
- . Required power supply: 24-35 VDC (available on FAAC control panels)
- . Output relay rating: 100 MA/24VDC
- . Output relay: N.O. (Normally Opened) and N.C. (Normally Closed)
- . Receiver and Transmitter provide reliable all-weather sensing
- . Dimensions: 2.75 in. x 3.75 in. x 1.75 in. (7 cm x 9.5 cm x 4.5 cm)

Part #: 785163
List: \$244



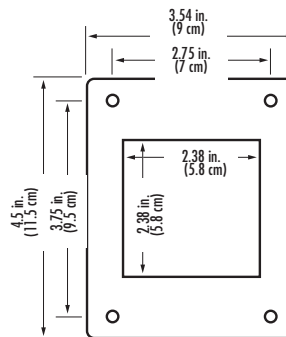
Photobeam Mounting Posts (Standard and Double)

Photobeam Mounting Post and Foundation Plate for Photobeam Set

Features:

- . Anodized aluminum
- . Standard post: 22 in. high (57.5 cm)
- . Double post (holds photobeam and control switch): 44 in. (111.5 cm)

NOTE: Photobeam sets require 2 posts



Mounting Post Footprint

* Measurements and weights stated in this Price List are approximate and subject to change without notice. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278.

Model 400 | Hydraulic Swing Gate Operator

FAAC Photocell Systems

Standard Photocell Set

Dimensions: 2.75 in. wide x 2.75 in. high x 4 in. deep (7 cm x 7 cm x 10.2 cm) Depth measurement includes housing. The Standard Photocell Set requires the following additional equipment (priced separately): Multi-Use Metal Housing, or Multi-Use Plastic Housing

Features:

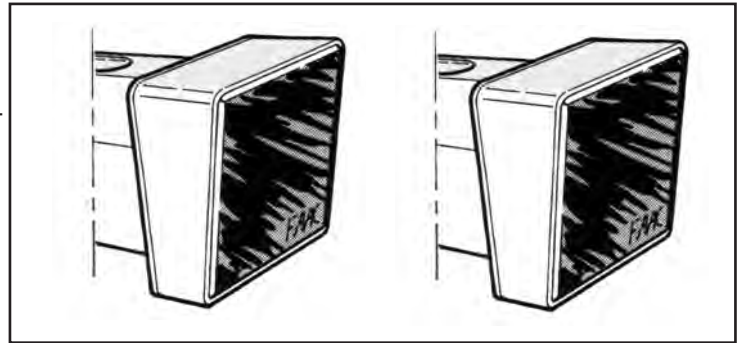
Required power supply: 19 - 34 VDC or 15 - 25 VAC (available on FAAC control panels).

Output relay rating: 25 VAC, 0.1A

Output relay: N.O. (Normally Opened) and N.C. (Normally Closed)

Transmitter to receiver sensing provides reliable all-weather sensing

Range: 90 ft (27 m)



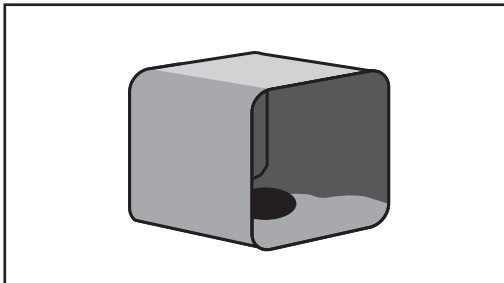
Standard Photocell Set

Part #: 785152
List: \$299

Entry Sytem Devices

Photocell Metal Housing

Powder coated steel.
Dimensions:
2.5 in. high x 2.5 in. wide x 2.75 in. deep (6.4 cm x 6.4 cm x 7 cm)

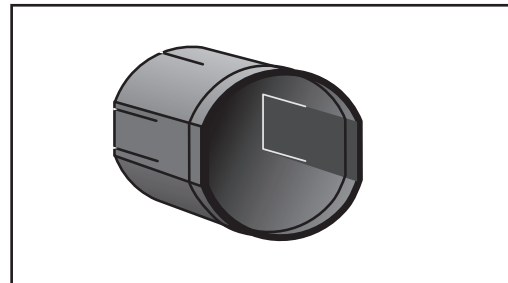


Photocell Metal Housing

Part #: 720089
List: \$44

Photocell Plastic Housing

Dimensions:
2.5 in. high x 2.25 in. wide x 2.75 in. deep (6.4 cm x 5.7 cm x 7 cm)



Photocell Plastic Housing

Part #: 720086
List: \$9

Model 400 | Hydraulic Swing Gate Operator

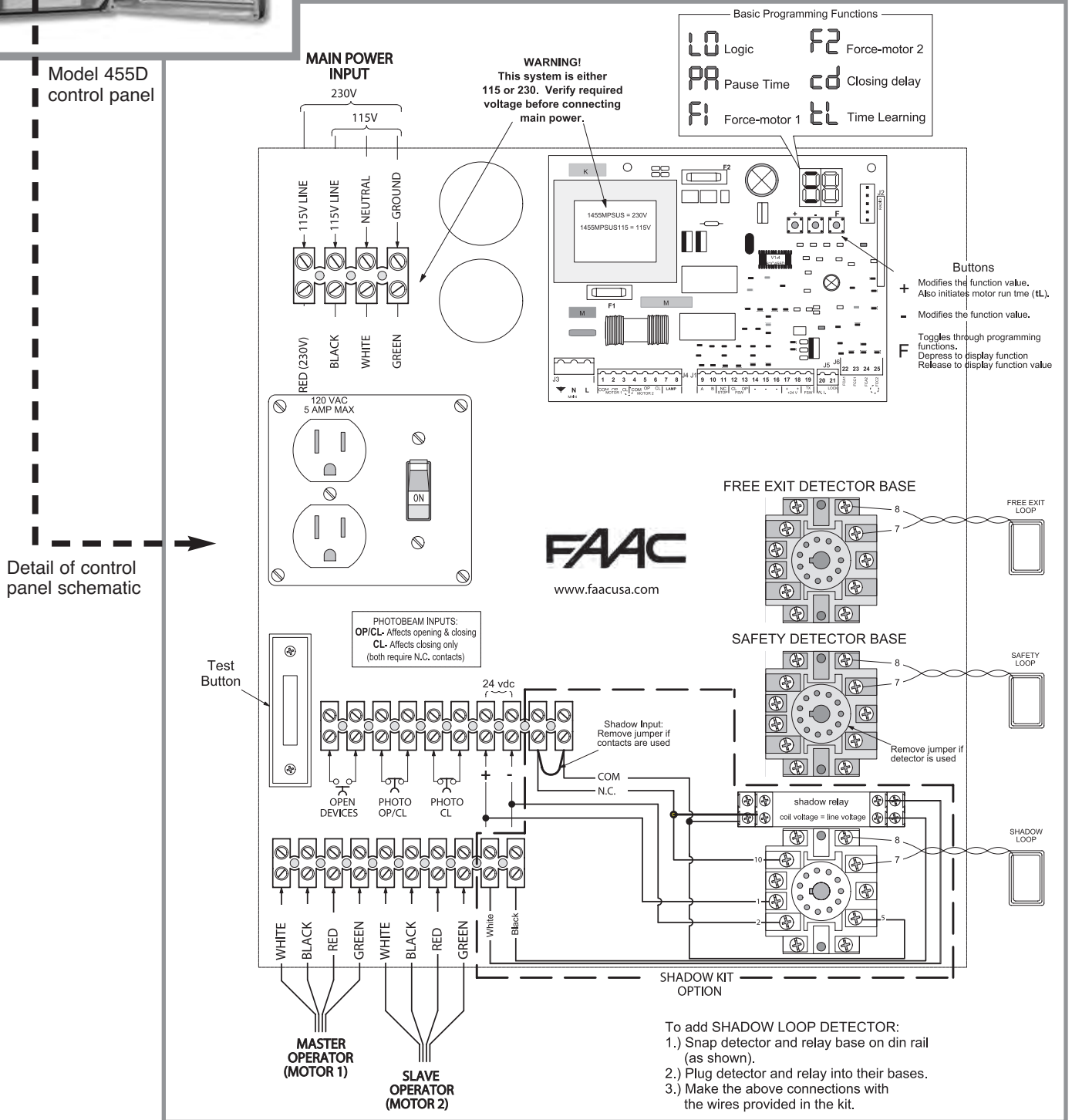
Model 455D control panel



Model 455D control panel

To simplify understanding of the new detector layout, the Model 455 D back-plate is shown here with control panel, outlet switch, test button and appropriate terminal strips. Also shown are the new "free exit" and "safety" loop detector plug-in bases. These will come as diagrammed with all enclosures.

The shadow loop detector can be added as an option. The shadow kit is comprised of another base, detector, and relay. These items are shown in the diagram within the bold, broken line section with instructions below.



Visit us online at

www.faacusa.com

Model 402 & 422 | Hydraulic Swing Gate Operators



- Designed for light duty gate systems
- Two year limited warranty
(see back cover)

FAAC operators for swinging gates are among the safest available. The anti-entrapment and safety provided by all gate operators can and should be improved with photocells, loop detectors, sensing edges and/or other similar devices. FAAC strongly recommends that devices such as these be installed with all automated gate systems.

To guarantee the safety and efficiency of its equipment, FAAC strongly recommends that qualified personnel test the safety system on an annual basis, as well as maintain the overall hydraulic or mechanical system.

Model 402 & 422

Model 402 & 422 | Hydraulic Swing Gate Operators

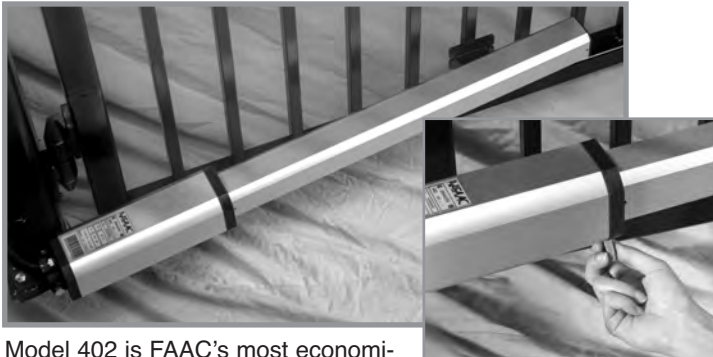
The Models 402 and 422 are designed for light-duty gate systems and are not recommended for solid gates.

- Adjustable hydraulic pressures to control swing
- Minimized pinch points
- Hydraulic locking of the gate available in opened and or closed position
- Quiet operation
- Self-lubricating for long life
- Two year warranty (see back cover)

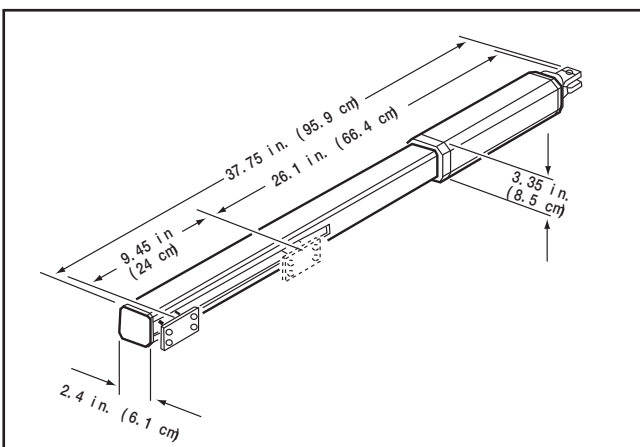
(Note: Positive Gate Stops, which limit gate travel, are required in the opened and closed positions.)

Model 402

- FAAC's most economical hydraulic operator
- 12 second swing to clear 90°.
- Locks in the opened or closed positions (CBA/CBC Only)
- Maximum leaf length: 10 ft (3 m)
- Maximum leaf weight: 900 lb (410 kg)
- Maximum cycles per hour: 30



Model 402 is FAAC's most economical gate mounted hydraulic operator. Model 402 manual release

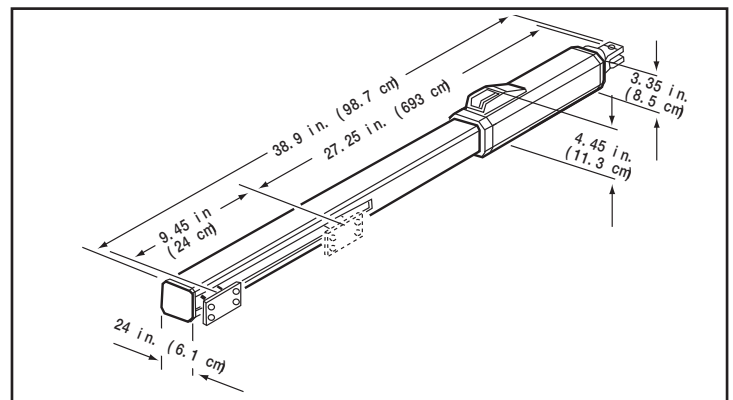


Model 402

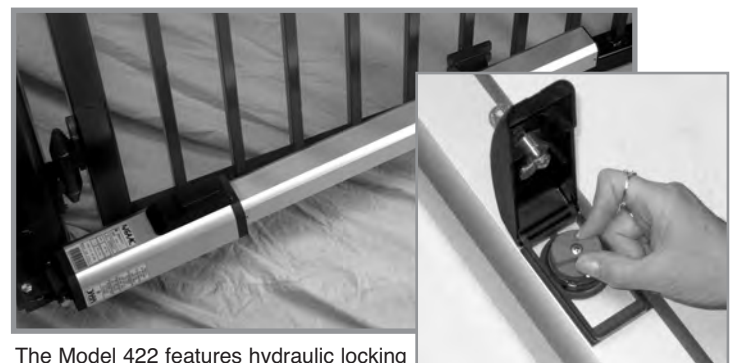
* Measurements and weights stated in this Price List are approximate and subject to change without notice. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278.

Model 422

- 12 second swing to clear 90°
- Locking in both directions available
- Easy installation and maintenance
- Swivel attachment to front bracket
- Oil can be checked without removing operator from gate
- Maximum leaf length: 10 ft (3 m)
- Maximum leaf weight: 900 lb (410 kg)
- Maximum cycles per hour: 30



Model 422



The Model 422 features hydraulic locking in both the opened and closed positions. Model 422 manual release
It has a keyed manual release.

NOTE: FAAC hydraulic operators are not recommended for use on solid-faced gates which are subject to gusty and/or high wind situations. Solid-faced is defined as 50% or more of the gate being solid. If you still have questions regarding your specific installation, please contact our technical department at 1-800-221-8278 or 1-866-925-3222.

Model 402 & 422 | Hydraulic Swing Gate Operators

Model Description	Package Includes	Shipping Weight	Voltage	Part Number	Price
402 CBC Standard Basic Single Kit	402 CBC operator, 455D control panel, 14x16 pre-wired enclosure	39 lb (17.7 kg)	115V	1044682.5+	\$2,330
			230V	1044681.5+	2,330
422 CBAC Standard Basic Single Kit	422 CBAC operator, 455D control panel, 14x16 pre-wired enclosure	39 lb (17.7 kg)	115V	10420012.5+	2,699
			230V	1042001.5+	2,699

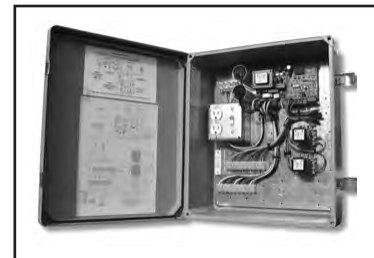
To make the above a master/slave (bi-parting) system, use the following:

Model Description	Package Includes	Shipping Weight	Voltage	Part Number	Price
402 CBC Standard Operator Only	Use to make the single kit into a master/slave, or use to order replacement operator.	22 lb (10 kg)	115V	1044682	\$1,343
			230V	1044681	1,343
422 CBAC Standard Operator Only		22 lb (10 kg)	115V	10420012	1,603
			230V	1042001	1,603

To complete your gate system, or for replacement purposes, the following accessories can be ordered:

You can upgrade from the 14 X16 to a 20 X16 metal pre-wired enclosure for only \$250.00 gross more.

Accessory	Description	Shipping Weight	Voltage	Part Number	Price
Photobeam	Directional with diagonal alignment; required for UL-325 compliance.	2 lb (1 kg)		785163	\$244
Photobeam Mounting Post: Standard	Foundation plate included	5 lb (2.2 kg)		401028/ 737630+	123
Photobeam Mounting Post: Double	Foundation plate included	9 lb (4.1 kg)		401035/ 737630+	198
Photocell Set: also requires Photocell Metal Housing or Photocell Plastic Housing		2 lb (1 kg)		785152	299
		3 lb (1.4 kg)		720089	44
		2 lb (1 kg)		720086	9
Receiver	FAAC single channel	1 lb (.5 kg)		1RP418DS	79
Transmitter	FAAC single button	1 lb (.5 kg)		1TM418DS	45
Transmitter	FAAC two button	1 lb (.5 kg)		787317	53
Antenna	FAAC tuned antenna kit	2 lb (1 kg)		412003	88
Loop Detector	DSP 15	1 lb (.5 kg)		2664	233
Loop Detector	DSP II; plugs in control panel backplate	1 lb (.5 kg)		2665	139
Loop Detector	DSP 10; plugs in control panel backplate & has sensitivity adjustment	1 lb (.5 kg)		2667	152
Shadow Detector kit	Includes one detector, base, and relay for shadow loop	1 lb (.5 kg)	115V	2665.1+	209
			230V	2665.2+	209
Shadow Detector kit (SP 10)	Includes one detector, base, and relay for shadow loop	1 lb (.5 kg)	115V	2667.1+	220
			230V	2667.2+	220
Mag Lock Relay Kit	Includes base & relay for mag lock		24V ac	2352	49
Positive Stop	Mdl 80, 2-rod internal stop, 402	4 lb (1.8 kg)		3554	193
	Mdl 80, 2-rod internal stop, 422	4 lb (1.8 kg)		3555	193
Battery Backup	BC Pro Single system backup	45 lb (16.8 kg)	115V	3520	1,806
	BC Pro Dual system backup	45 lb (16.8 kg)	115V	3522	2,048
	700i Single system backup	45 lb (16.8 kg)	230V	3521	1,806
	700i Dual system backup	45 lb (16.8 kg)	230V	3523	2,048
Control panel	455D (replacement only)	3 lb (1.4 kg)	115V	790919	730
			230V	790926	730
	455D w/ 14 x 16 in fiberglass, hinged, lockable enclosure	26 lb (11.8kg)	115V	455D115F+	1,224
			230V	455D220F+	1,224
	455D w/20x16 metal, hinged enclosure		115V	455D115A+	1,465
			230V	455D230A+	1,465



Model 455D control panel

Model 402/422 operators require a Model 455D control panel, which can operate a single leaf or master slave gate system. The 455D has a convenient reference diagram on the inside cover.

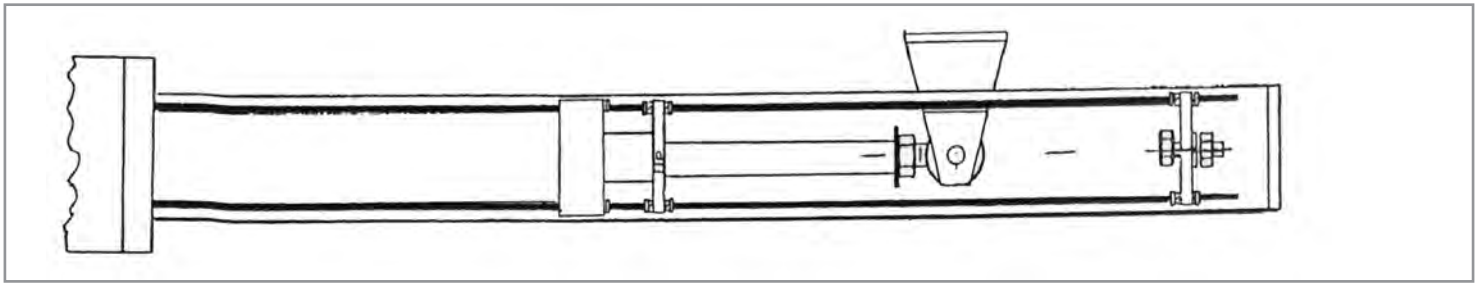
The 455D has the following functions and features:

- Operates a single leaf or a bi-parting gate
- Provides opening and closing "slow down, soft stop" convenience
- Power supply: 115 VAC (+/- 10%) or 230 VAC (+6% -10%) 50-60 HZ)
- Absorbed power: 10W
- Motor max load: 800W
- Accessories max load: .5 amp
- Electric lock max load: 15 Va
- Operating temperature: -78°F to +131°F
- Protection fuses: .800 mA (accessories) 5 amp (motors)
- Operating logics:
 - A** (automatic): signal to open, gate closes automatically after selected timed pause
 - S** (security): similar to A logic, useful in reducing tailgating
 - E** (semi-automatic): garage door-like operation; signal to open, signal to close
 - EP** (semi-automatic): similar to E logic, but second signal stops gate, third signal reverses gate
 - B** (manned, pulsed): designed for guard station use, requires 3-button switch (pulsed) to open, close and stop gate
 - C** (manned, constant): similar to B logic, but 3-button switch requires constant pressure on each button
- Opening/closing time: 0 to 120 seconds (programmable)
- Pause time: 0 to 4 minutes (programmable)
- Closing leaf delay: 0 to 4 minutes (programmable)
- Opening leaf display: 2 seconds (can be disabled)
- Torque: adjustable from 0 to 50 levels
- On board programming via push button
- Easy interconnection of actuating and reversing devices
- Open/Hold open function

* Measurements and weights stated in this Price List are approximate and subject to change without notice. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278 or 1-866-925-3222.

Model 402 & 422 | Hydraulic Swing Gate Operators

Positive Stops (concealed)



Stop-O-Matic Model 80 shown in open and closed positions.

This adjustable gate stop is attached to the operator front flange by two socket head screws. Once the open and closed stop adjustments are set, the protective cover is slid over the stop and secured with an end cap and screws.

The Model 80 can be added to an operator at any time.

Features:

- For FAAC models 402 and 422
- Steel construction
- All versions mount with existing FAAC hardware and require no additional attachment points

- Stop is totally concealed under operator cover
- Accommodates Inward or Outward Swing with no additional fabrication
- Maximum degrees of swing: Limited by operator
- Maximum leaf length: Limited by operator
- Maximum leaf weight: Limited by operator

NOTE: Model 80 is not recommended for use in high wind situations.

FAAC Model BC Pro 1050 and Model 700i battery back-up units



Model BC Pro 1050 battery back-up

Ideal useage for the BC Pro and 700i battery backup systems: **Fail safe** (gates open during power outage and remain open until power is restored). Even if the power outage is prolonged and the batteries die, the gates will remain open to allow normal ingress and egress during the power outage.

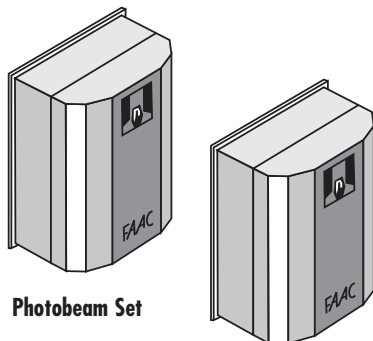
Because the BC Pro and 700i battery backup systems run off the batteries, gate operation during a power outage is dependant upon the batteries being well conditioned and charged. If they are not, the voltage does not run through to the control panel being backed up. The battery backup system does not shut down at all during a power outage, instead powering all peripherals being backed up with our battery backup system. Thus, the more peripherals used, the faster the batteries will die. Once the batteries do die, the gates will become inoperable and will stop at the position they were at when the batteries failed. Therefore, it is important to understand that the BC Pro or 700i battery backup systems are not intended to work a **Fail secure** application (gates remain closed during power outage). Again, long term power outages could result in the batteries failing at some point, possibly leaving the gates either partially or fully open or closed.

Specifications	BC Pro 1050	700i
Size:	14 x 16 x 6 in. (35.6 x 40.6 x 15.2 cm)	
Weight:	45 lbs. (16.8 kg)	
Input/Output voltage:	115 VAC	230 VAC
Input/Output frequency:	60 Hz	50/60 Hz
Output VA:	1050	700
Output watts:	680	450
Recharge rate to 90%:	2-4 hours	
Maximum surge current:	36,000 amps	160*
*AC suppression joule/amp ratings		
Low volt switch to battery:	94 VAC	190 VAC
Max amp. draw:	5 amp.	3 amp.
Shipping Weight:	45 lbs. (16.8 kg)	
Part Number:	3520	3521
Price:	\$1,806	\$1,806
Dual Configuration:		
Dual System Part Number:	3522	3523
Price:	\$2,048	\$2,048

* Measurements and weights stated in this Price List are approximate and subject to change without notice. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278 or 1-866-925-3222.

Model 402 & 422 | Hydraulic Swing Gate Operators

FAAC Photobeam Systems



Photobeam Set

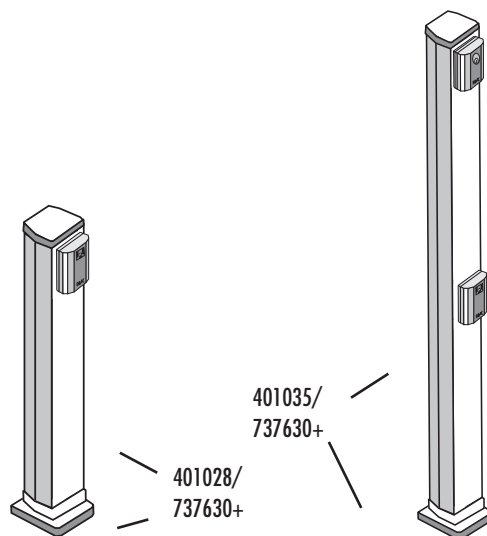
Photobeam Photocell Set

Designed for wall mounting or for mounting in special extruded aluminum mounting posts.

Features:

- . Directional photocell with diagonal alignment
- . Angle of detection: ± 4 degrees
- . Range: 100 ft (30 m)
- . Obstacle detection time: 10 ms
- . Housing protection IP 54
- . Required power supply: 24-35 VDC (available on FAAC control panels)
- . Output relay rating: 100 MA/24VDC
- . Output relay: N.O. (Normally Opened) and N.C. (Normally Closed)
- . Receiver and Transmitter provide reliable all-weather sensing
- . Dimensions: 2.75 in. x 3.75 in. x 1.75 in. (7 cm x 9.5 cm x 4.5 cm)

Part #: 785163
List: \$244



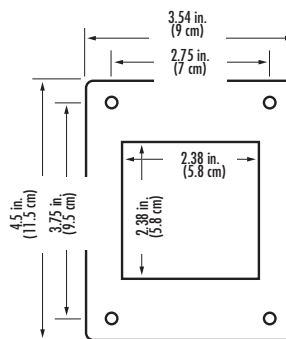
Photobeam Mounting Posts (Standard and Double)

Photobeam Mounting Post and Foundation Plate for Photobeam Set

Features:

- . Anodized aluminum
- . Standard post: 22 in. high (57.5 cm)
- . Double post (holds photobeam and control switch): 44 in. (111.5 cm)

NOTE: Photobeam sets require 2 posts



Mounting Post Footprint

* Measurements and weights stated in this Price List are approximate and subject to change without notice. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278.

Model 402 & 422 | Hydraulic Swing Gate Operators

FAAC Photocell Systems

Standard Photocell Set

Dimensions: 2.75 in. wide x 2.75 in. high x 4 in. deep
(7 cm x 7 cm x 10.2 cm) Depth measurement includes housing.
The Standard Photocell Set requires the following additional equipment (priced separately):
Multi-Use Metal Housing, or Multi-Use Plastic Housing

Features:

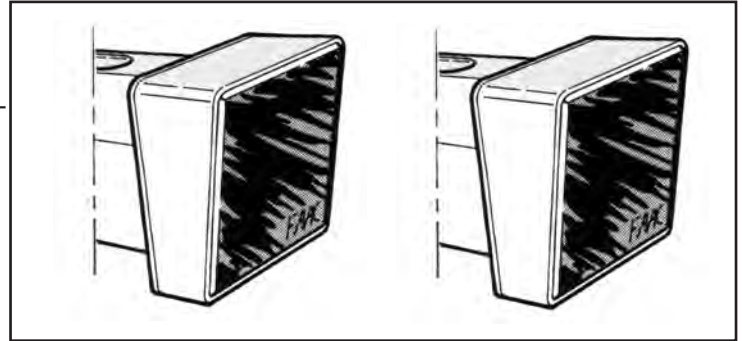
Required power supply: 19 - 34 VDC or 15 - 25 VAC
(available on FAAC control panels).

Output relay rating: 25 VAC, 0.1A

Output relay: N.O. (Normally Opened) and N.C.
(Normally Closed)

Transmitter to receiver sensing provides reliable all-
weather sensing

Range: 90 ft (27 m)



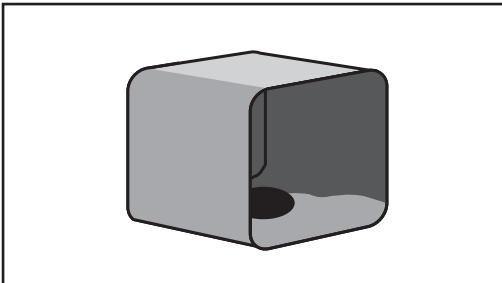
Standard Photocell Set

Part #: 785152
List: \$299

Entry System Devices

Photocell Metal Housing

Powder coated steel.
Dimensions:
2.5 in. high x 2.5 in. wide x 2.75 in. deep
(6.4 cm x 6.4 cm x 7 cm)

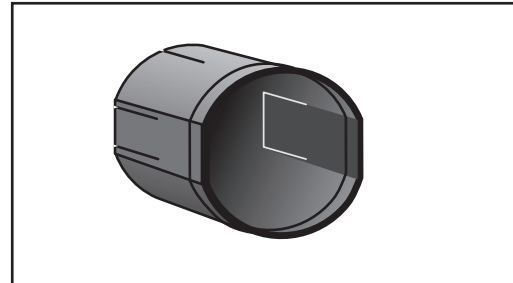


Photocell Metal Housing

Part #: 720089
List: \$44

Photocell Plastic Housing

Dimensions:
2.5 in. high x 2.25 in. wide x 2.75 in. deep
(6.4 cm x 5.7 cm x 7 cm)

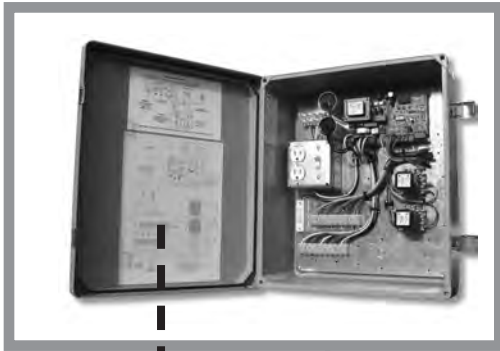


Photocell Plastic Housing

Part #: 720086
List: \$9

Model 402 & 422 | Hydraulic Swing Gate Operators

Model 455D control panel

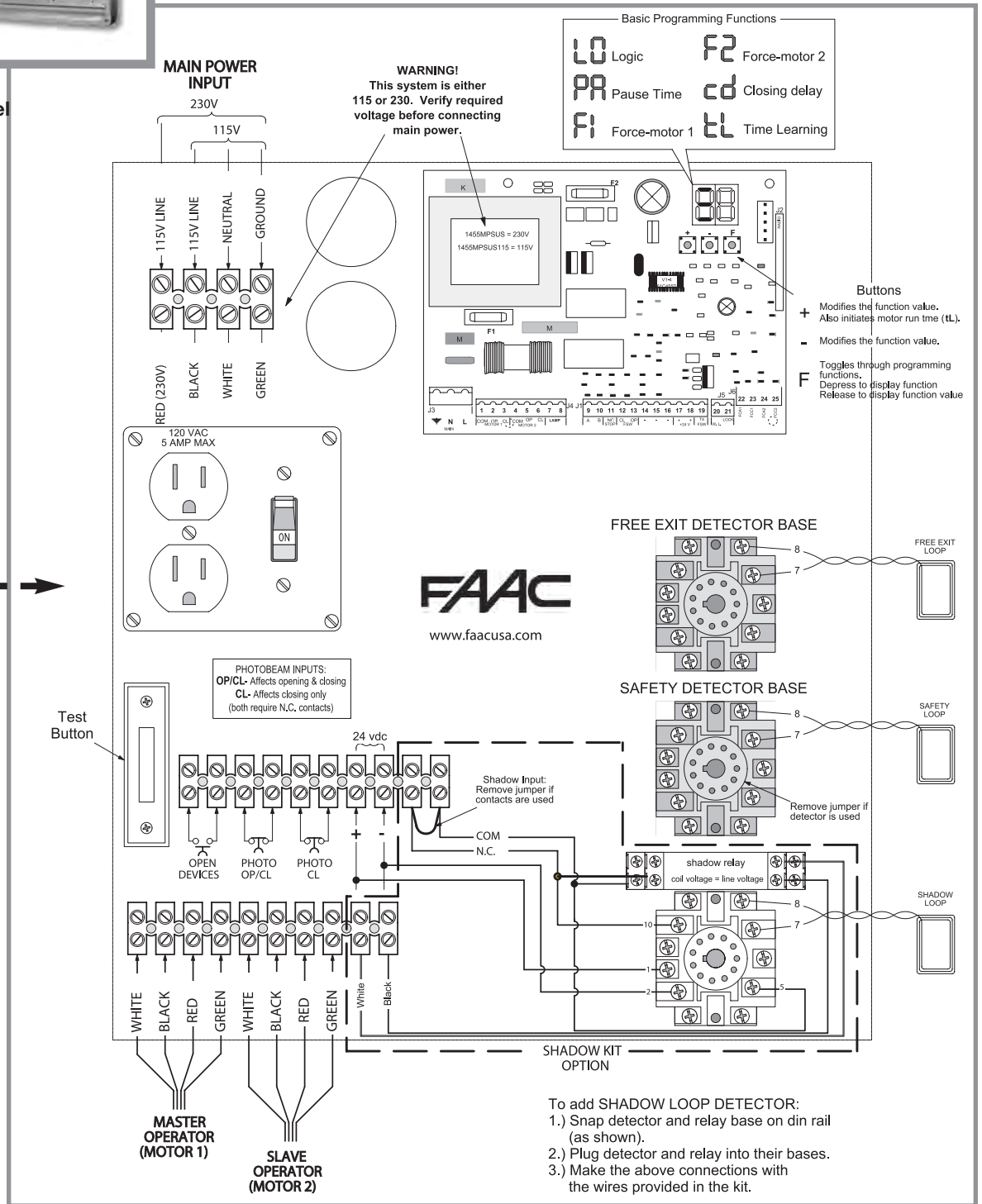


Model 455D control panel

To simplify understanding of the new detector layout, the Model 455 D back-plate is shown here with control panel, outlet switch, test button and appropriate terminal strips. Also shown are the new "free exit" and "safety" loop detector plug-in bases. These will come as diagramed with all enclosures.

The shadow loop detector can be added as an option. The shadow kit is comprised of another base, detector, and relay. These items are shown in the diagram within the bold, broken line section with instructions below.

Detail of control panel schematic



Visit us online at

www.faacusa.com

Model 750

In-Ground Swing Hydraulic Gate Operators



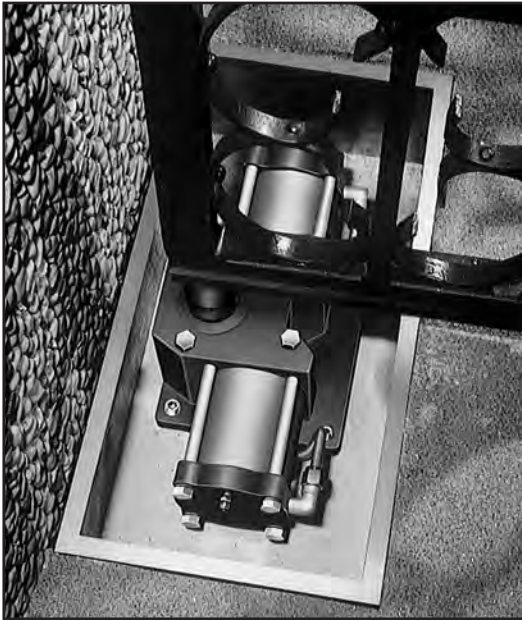
- Designed for residential applications
- Two year limited warranty (see back cover)

FAAC operators for swinging gates are among the safest available. The anti-entrapment and safety provided by all gate operators can and should be improved with photocells, loop detectors, sensing edges and/or other similar devices. FAAC strongly recommends that devices such as these be installed with all automated gate systems.

To guarantee the safety and efficiency of its equipment, FAAC strongly recommends that qualified personnel test the safety system on an annual basis, as well as maintain the overall hydraulic or mechanical system.

Model 750

Model 750 | In-Ground Hydraulic Swing Gate Operators



The Model 750 provides an “invisible” installation by placing the drive unit below ground.

Model 750 gate operators features:

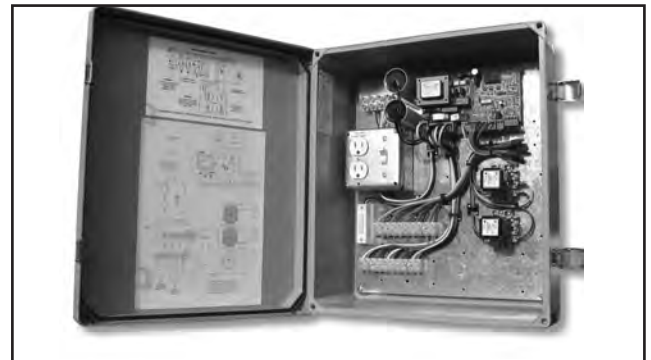
- Hydraulic operation
- Adjustable hydraulic pressures to control swing
- Minimized pinch points
- Available hydraulic locking of the gate in position
- Quiet operation
- Self-lubricating for long life
- Opening of up to 180 degrees
- Maximum leaf length: 13 ft (4 m)
- Maximum leaf weight: 1500 lb (680 kg)
- Two year warranty (see back cover)

Note: Positive Gate Stops, which limit gate travel, are required in the opened and closed positions.

Model 750

Model 750 operators require the 455 D control panel which will operate a single leaf or a master/slave gate.

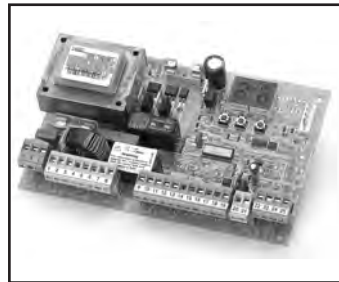
- Control panels may be purchased separately.



Model 455D control panel and pre-wired enclosure

The 455 D Control Panel

- UL 325 compliant
- Provides “slow down” feature on open and close, at any position for all FAAC hydraulic operators plus Model 412 High Voltage version and Model 415 electromechanical swing gate operator.
- Fully programmable using built-in push buttons, LED screen and easy-to-follow instructions



Choice of Actuator

Abbreviations:

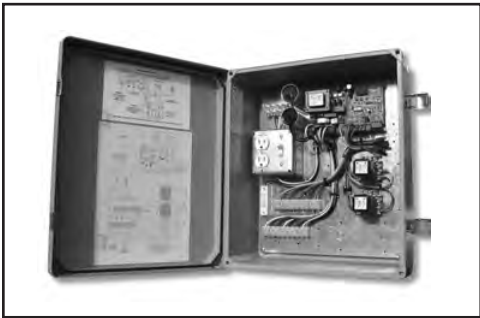
- CBAC = hydraulic locking opened and closed; normal swing speed
- CBA/CBC = hydraulic locking in the closed/open position; normal swing speed
- SB = without hydraulic locking; normal swing speed

NOTE: All models listed can be converted to CBA, CBC or SB upon request. To simplify ordering the right 750 model that will work best for your application, you only need to answer two simple questions:

1. What is the maximum length of your gate leaf:
< 8 ft (2.4 m) **(CBAC)** or > 9 ft (2.7 m) **(SB)** up to a max. of 13 ft (4 m)

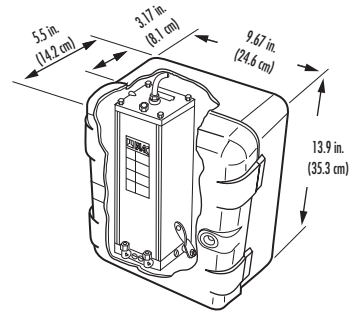
Model 750 | In-Ground Hydraulic Swing Gate Operators

The Model 750 hydraulic system consists of a control panel and four hydraulic component groups:



Model 455D control panel and 14x16 in. pre-wired enclosure

1.



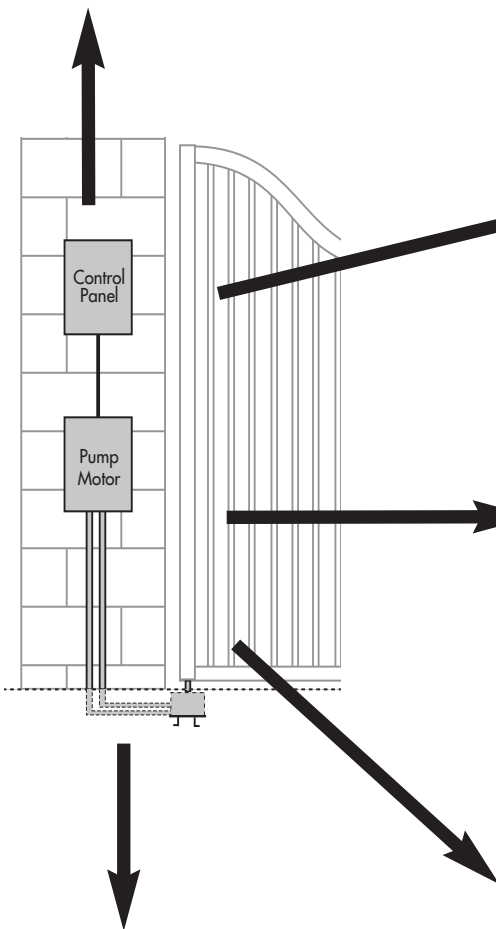
The 750 Pump Motor Assembly and enclosure, which is available with or without hydraulic locking.

455 D Control panel and enclosure

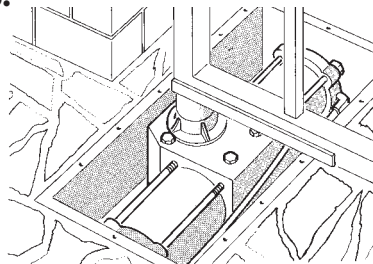
2.



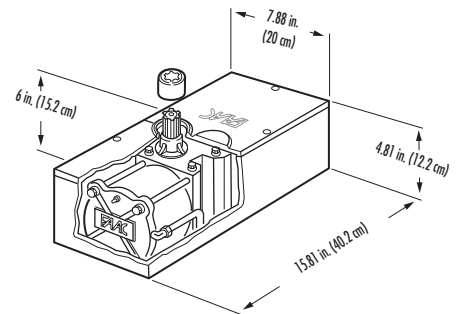
- . One or two Pump Motor Assemblies
- . One or two 33 ft (10 m) lengths of flex hose and one or two connector kits.
- . One or two Drive Units with metal enclosure and top
- . One or two foundation plates
- . 455 D Control Panel & Enclosure.



3.



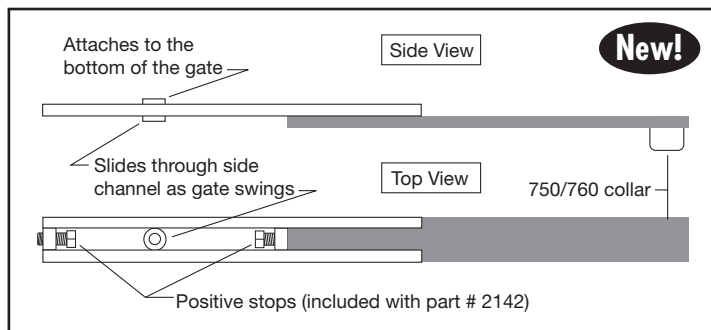
The 750 Drive Unit (with metal enclosure and top) is available in both a 110° swing or a 180° swing version.



4.



Foundation plate on which the Drive Unit is placed.



The 750/760 extension arm with built-in positive stops (optional)

Model 750 | In-Ground Hydraulic Swing Gate Operators

Model Description	Shipping Weight	Voltage	Maximum Leaf Length	Maximum Leaf Weight	Part Number	Price
750 Pump Motor Assembly (Includes hydraulic pump enclosure)	12 lb (5.4 kg)	115 VAC 230 VAC	13 ft (4 m) 13 ft (4 m)	1500 lb (680 kg) 1500 lb (680 kg)	107725 1077251	\$1,068 1,068
750 110° Drive Unit with metal enclosure and top 750 180° Drive Unit with metal enclosure and top	26 lb (11.8 kg) 26 lb (11.8 kg)		13 ft (4 m) 13 ft (4 m)	1500 lb (680 kg) 1500 lb (680 kg)	108757 108758	1,106 1,275
455D control panel with 14 x 16 pre-wired enclosure	26 lb (11.8 kg) 26 lb (11.8 kg)	115 VAC 230 VAC			455D115F+ 455D220F+	1,224 1,224

To complete your gate system, or for replacement purposes, the following accessories can be ordered:

Accessory	Description	Shipping Weight	Voltage	Part Number	Price
Foundation Plate	Each 750 Drive Unit must be on a foundation plate.	11 lb (5 kg)		737607	\$64
Flex Hose Connector Kit	The kit includes the required connection hardware to attach the two hoses which run between a pump motor assembly and drive unit.	2 lb (.9 kg)		390421+	79
Flexible Hydraulic Hose	Length: 33 ft (10m) Outside Diameter: 5/16" (8mm).	3 lb (1.4 kg)		390422	143
	Length: 328 ft (100m) Outside Diameter: 5/16" (8mm).	30 lb (13.6 kg)		390439	1,312
Hydraulic Pump Enclosure (replacement)		3 lb (1.4 kg)		720309	102
750/760 Extension Arm 2 piece	The arm is used when the 750 or 760 drive unit cannot be aligned with the pivot point of the gate leaf.	9 lb (4.1 kg)		738704	116
750/760 Extension Arm 3 piece	The arm is used when the 750 or 760 drive unit cannot be aligned with the pivot point of the gate leaf.	9 lb (4.1 kg)		2141	116
750/760 Extension Arm with positive stops 2 piece	For alignment problems plus provides positive stops	10 lb (4.5 kg)		2142	246
Photobeam	Directional with diagonal alignment; required for UL-325 compliance.	2 lb (1 kg)		785163	244
Photobeam Mounting Post: Standard	Foundation plate included	5 lb (2.2 kg)		401028/ 737630+	123
Photobeam Mounting Post: Double	Foundation plate included	9 lb (4.1 kg)		401035/ 737630+	198
Photocell Set: also requires Photocell Metal Housing or Photocell Plastic Housing		2 lb (1 kg)		785152	299
		3 lb (1.4 kg)		720089	44
		2 lb (1 kg)		720086	9
Receiver	FAAC single channel	1 lb (.5 kg)		1RP418DS	79
Transmitter	FAAC single button	1 lb (.5 kg)		1TM418DS	45
Transmitter	FAAC two button	1 lb (.5 kg)		787317	53
Antenna	FAAC tuned antenna kit	2 lb (1 kg)		412003	88
Loop Detector	DSP 15	1 lb (.5 kg)		2664	233
Loop Detector	DSP II; plugs in control panel backplate	1 lb (.5 kg)		2665	139
Loop Detector	DSP 10; plugs in control panel backplate & has sensitivity adjustment	1 lb (.5 kg)		2667	152
Shadow Detector kit	Includes one detector, base, and relay for shadow loop	1 lb (.5 kg)	115V	2665.1+	209
			230V	2665.2+	220
Mag Lock Relay Kit	Includes base & relay for mag lock		24V ac	2352	49
Shadow Detector kit (SP 10)	Includes one detector, base, and relay for shadow loop	1 lb (.5 kg)	115V	2667.1+	220
			230V	2667.2+	220
Battery Backup	BC Pro Single system backup	45 lb (16.8 kg)	115V	3520	1,806
	BC Pro Dual system backup	45 lb (16.8 kg)	115V	3522	2,048
	700i Single system backup	45 lb (16.8 kg)	230V	3521	1,806
	700i Dual system backup	45 lb (16.8 kg)	230V	3523	2,048
Control panel	455D (replacement only)	3 lb (1.4 kg)	115V	790919	730
			230V	790926	730
			115V	455D115F+	1,224
455D w/ 14 x 16 in fiberglass, hinged, lockable enclosure		26 lb (11.8kg)	115V	455D115F+	1,224
			230V	455D220F+	1,224

The CBAC version is only available for gate leaf lengths of 8 feet or less. However, for certain applications, it is possible to install the CBAC on longer leaves. For information contact FAAC's technical department at (800) 221-8278.

* Measurements and weights stated in this Price List are approximate and subject to change without notice. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278.

* Wind and gate design will affect performance specifications.

* The Model 750 is not recommended for use on opaque gates. The CBAC and CBC versions are not recommended for use in high wind situations.

* Duty cycle is measured in an ambient temperature of 72o F (22° C) and 115 VAC or 230 VAC. Variations in temperature and fluctuations in voltages will affect duty cycle.

* An electric or magnetic lock is recommended for any gate longer than 12 ft. (3.7 m).

* Operating temperature range: -33° to 165° F (-36o to 74o C).

* Positive Gate Stops, which limit gate travel, are required in the opened and closed positions.

NOTE: FAAC hydraulic operators are not recommended for use on solid-faced gates which are subject to gusty and/or high wind situations. Solid-faced is defined as 50% or more of the gate being solid. If you still have questions regarding your specific installation, please contact our technical department at 1-800-221-8278.

455D w/20x16	115V	455D115A+	\$1,465
metal hinged enclosure	230V	455D230A+	\$1,465

Model 750 | In-Ground Hydraulic Swing Gate Operators

FAAC Model BC Pro 1050 and Model 700i battery back-up units



Model BC Pro 1050 battery back-up

Ideal usage for the BC Pro and 700i battery backup systems: **Fail safe** (gates open during power outage and remain open until power is restored). Even if the power outage is prolonged and the batteries die, the gates will remain open to allow normal ingress and egress during the power outage.

Because the BC Pro and 700i battery backup systems run off the batteries, gate operation during a power outage is dependant upon the batteries being well conditioned and charged. If they are not, the voltage does not run through to the control panel being backed up. The battery backup system does not shut down at all during a power outage, instead powering all peripherals being backed up with our battery backup system. Thus, the more peripherals used, the faster the batteries will die. Once the batteries do die, the gates will become inoperable and will stop at the position they were at when the batteries failed. Therefore, it is important to understand that the BC Pro or 700i battery backup systems are not intended to work a **Fail secure** application (gates remain closed during power outage). Again, long term power outages could result in the batteries failing at some point, possibly leaving the gates either partially or fully open or closed.

Specifications	BC Pro 1050	700i
Size:	14 x 16 x 6 in. (35.6 x 40.6 x 15.2 cm)	
Weight:	45 lbs. (16.8 kg)	
Input/Output voltage:	115 VAC	230 VAC
Input/Output frequency:	60 Hz	50/60 Hz
Output VA:	1050	700
Output watts:	680	450
Recharge rate to 90%:	2-4 hours	
Maximum surge current:	36,000 amps	160*
<small>*AC suppression joule/amp ratings</small>		
Low volt switch to battery:	94 VAC	190 VAC
Max amp. draw:	5 amp.	3 amp.
Shipping Weight:	45 lbs. (16.8 kg)	
Part Number:	3520	3521
Price:	\$1,806	\$1,806
Dual Configuration:		
Dual System Part Number:	3522	3523
Price:	\$2,048	\$2,048

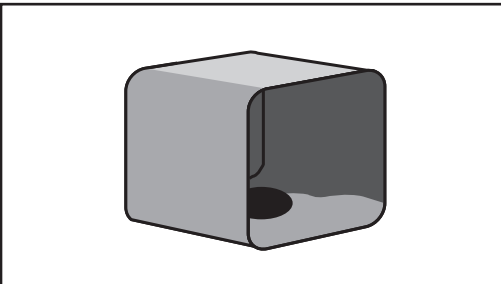
Entry Sytem Devices

Photocell Metal Housing

Powder coated steel.

Dimensions:

2.5 in. high x 2.5 in. wide x 2.75 in. deep
(6.4 cm x 6.4 cm x 7 cm)



Photocell Metal Housing

Part #: 790089

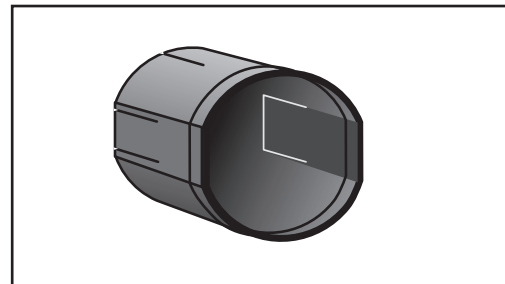
List: \$44

* Measurements and weights stated in this Price List are approximate and subject to change without notice. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278.

Photocell Plastic Housing

Dimensions:

2.5 in. high x 2.25 in. wide x 2.75 in. deep
(6.4 cm x 5.7 cm x 7 cm)



Photocell Plastic Housing

Part #: 790086

List: \$9

Model 750 | In-Ground Hydraulic Swing Gate Operators

FAAC Photocell Systems

Standard Photocell Set

Dimensions: 2.75 in. wide x 2.75 in. high x 4 in. deep
(7 cm x 7 cm x 10.2 cm)

Depth measurement includes housing.

The Standard Photocell Set requires the following additional equipment (priced separately):

Multi-Use Metal Housing, or Multi-Use Plastic Housing

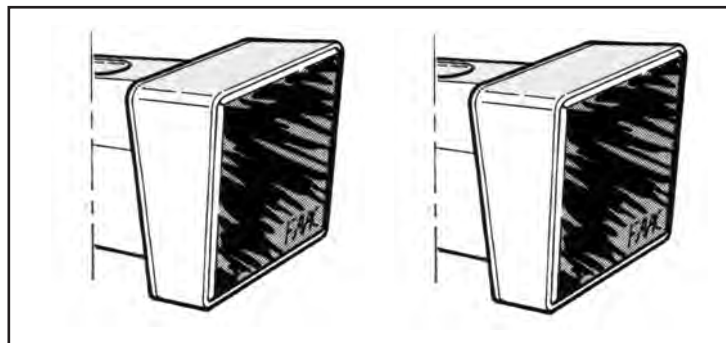
Features:

Required power supply: 19 - 34 VDC or 15 - 25 VAC
(available on FAAC control panels).

Output relay rating: 25 VAC, 0.1A

Output relay: N.O. (Normally Opened) and N.C. (Normally Closed)

Transmitter to receiver sensing provides reliable all-weather sensing - Range: 90 ft (27 m)



Standard Photocell Set

Part #: 785152

List: \$299

FAAC Photobeam Systems

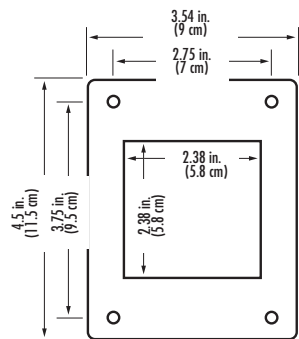
Photobeam Mounting Posts (Standard and Double)

Photobeam Mounting Post and Foundation Plate for Photobeam Set

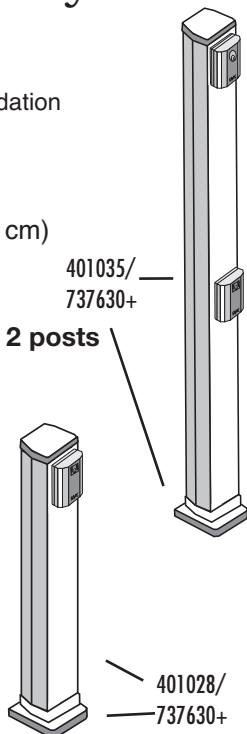
Features:

- Anodized aluminum
- Standard post: 22 in. high (57.5 cm)
- Double post (holds photobeam and : control switch) 44 in. (111.5 cm)

NOTE: Photobeam sets require 2 posts



Mounting Post Footprint

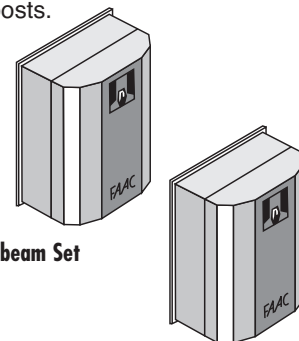


Photobeam Photocell Set

Designed for wall mounting or for mounting in special extruded aluminum mounting posts.

Features:

- Directional photocell with diagonal alignment
- Angle of detection: ± 4 degrees
- Range: 100 ft (30 m)
- Obstacle detection time: 10 ms
- Housing protection IP 54
- Required power supply: 24-35 VDC (available on FAAC control panels)
- Output relay rating: 100 MA/24VDC
- Output relay: N.O. (Normally Opened) and N.C. (Normally Closed)
- Receiver and Transmitter provide reliable all-weather sensing
Dimensions: 2.75 in. x 3.75 in. x 1.75 in. (7 cm x 9.5 cm x 4.5 cm)



Photobeam Set

Part #: 785163

List: \$244

Model Description	Package Includes	Shipping Weight	Voltage	Part Number	Price
Photobeam Mounting Post Standard	Foundation plate included	5 lb (2.2 kg)		401028/ 737630+	\$123
Photobeam Mounting Post Double	Foundation plate included	9 lb (4.1 kg)		401035/ 737630+	198

Model 750 | In-Ground Hydraulic Swing Gate Operators

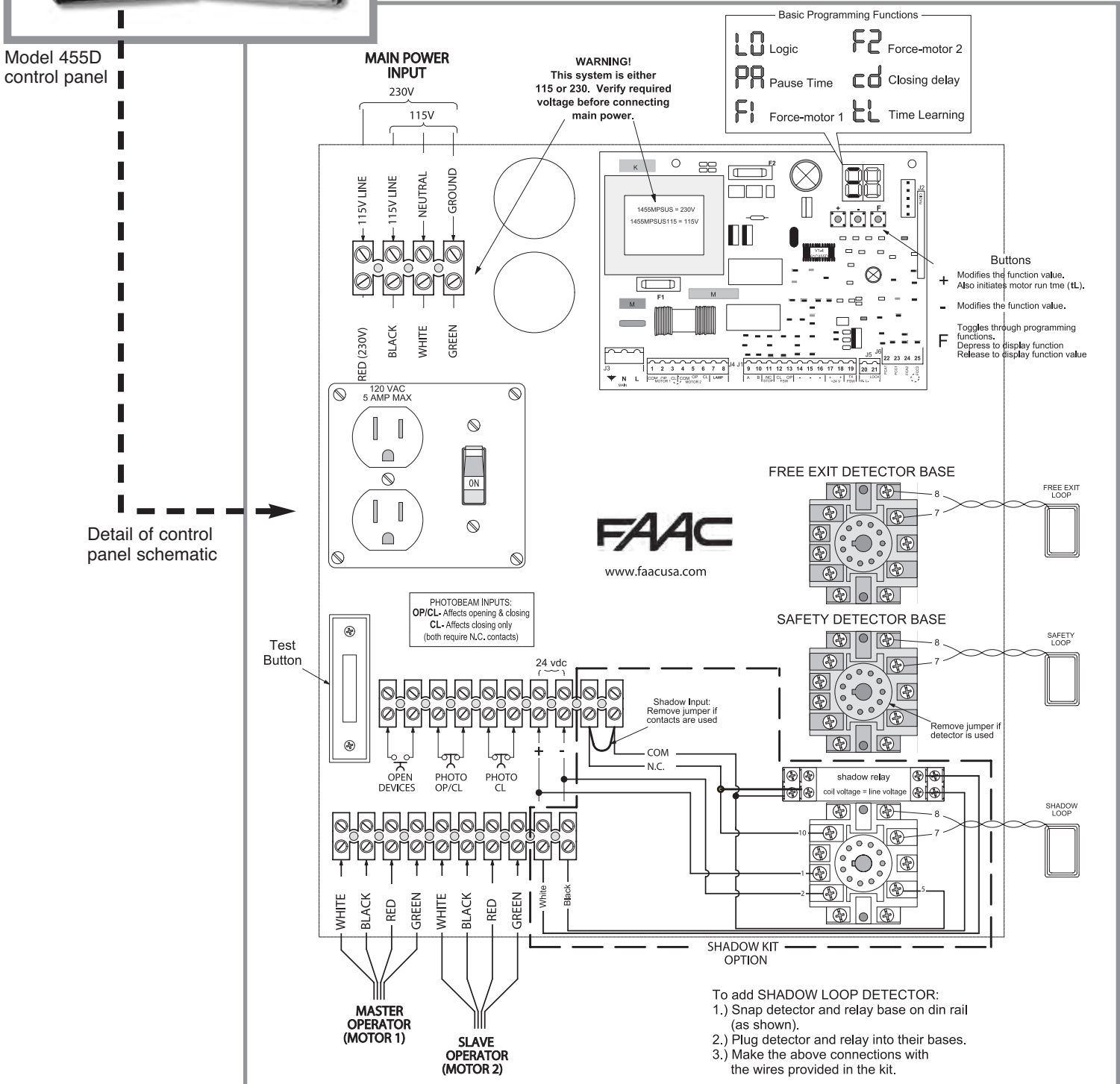
Model 455D control panel



Model 455D control panel

To simplify understanding of the new detector layout, the Model 455 D back-plate is shown here with control panel, outlet switch, test button and appropriate terminal strips. Also shown are the new "free exit" and "safety" loop detector plug-in bases. These will come as diagrammed with all enclosures.

The shadow loop detector can be added as an option. The shadow kit is comprised of another base, detector, and relay. These items are shown in the diagram within the bold, broken line section with instructions below.



Detail of control panel schematic

Barrier Operators

The logo for FAAC, featuring the letters 'FAAC' in a bold, stylized, black font. The 'F' and 'A' are connected, and the 'C' has a distinctive shape. The logo is positioned in the lower-left quadrant of the page, partially overlapping a large, light gray graphic element that resembles a stylized 'F' or a series of horizontal bars with diagonal cutouts.

FAAC

Contents

Barrier Gate Operators

Model 615	91
Model 620	94
Model 640	98

Barrier Gate Accessories	102
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FAAC Barrier Gate Operators			
Application	Cycles Per Hour	Max length Aluminum Beam	Model
Normal Traffic	150	13 ft	615
High Traffic	Continuous Duty	13 ft 23 ft	620 640

Barrier Operators

Model 615 | Hydraulic Barrier Gate Operators



- Designed for light to moderate traffic applications
- Two year limited warranty (see back cover)

To guarantee the safety and efficiency of its equipment, FAAC strongly recommends that qualified personnel test the safety system on an annual basis, as well as maintain the overall hydraulic or mechanical system.

Model 615

Model 615 | Hydraulic Barrier Gate Operators

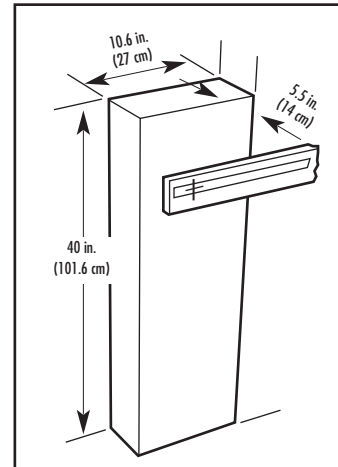
The Model 615 barriers are designed for light to moderate duty applications.

Additional features include:

- . Adjustable hydraulic pressures to control swing
- . External key-operated manual release
- . Simple interface with revenue control systems
- . Powder coated steel cabinet
- . Versatile 615 BPR control panel
- . Quiet operation

All 615 Models require the following:

- . Assembly of the beam
- . Assembly of the beam's counterbalancing system (assembly determines right- or left-hand orientation)
- . Arm & Fixing Bracket



FAAC Model 615 barrier gate operator

Features Common to All 615 Models	
Hydraulic Locking Positions	Opened & Closed
Cabinet Weight (approx..)	100 lb (45.5 kg)
Motor Horsepower	1/3 hp
Power Supply	115 or 230 VAC (-10% to +6%) 60 Hz
Ambient Operating Temperature Range	-33°F to 165°F (-36°C to 74°C)

* Measurements and weights stated in this Price List are approximate. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278, or 1-866-925-3222.

Model 615 | Hydraulic Barrier Gate Operators

Note: When ordering, please specify desired beam length

Model	Voltage	Part Number	Price
615 Standard	115 VAC	1049062	\$2,027
	230 VAC	104906	\$2,027

Model	Voltage	Part Number	Price
615 BPR Control Board	115V	20228125	\$680
615 BPR Control Board	220V	790281	\$680

Max Beam Length - Aluminum	Speed to Clear 90o	Cycles Per Hour	Pump Size (liters)	Motor RPM	Actual Pump Output (liters)	Control Panel	Shipping Weight
up to 13 ft (4 m)	5 sec	150	1.5	1400	1.5	615 BPR	100 lb (45.5 kg)

Please Note:

When ordering, you need to specify the length of the beam you plan to install so that we can ship the correct counterbalancing spring. Information on Model 615 aluminum beams can be found on page 105 of this Section.

An optional (recommended) foundation plate is available (see page 103).

FYI

Beams, because of their size, must be shipped by truck. Freight charges for shipping can be as much or more than the cost of the beam. Please request a freight quote from FAAC to determine total costs.

* Measurements and weights stated in this Price List are approximate. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278, or 1-866-925-3222.

Model 620

Barrier Gate Operators



- Designed for moderate to heavy traffic applications
- Two year limited warranty (see back cover)

To guarantee the safety and efficiency of its equipment, FAAC strongly recommends that qualified personnel test the safety system on an annual basis, as well as maintain the overall hydraulic or mechanical system.

Model 620

Model 620 | Barrier Gate Operators

UL
325

The U.L. Listed Model 620 barrier gates are designed for moderate to heavy duty applications.

The 620 is shipped with the Model 624 BLD control panel and has the following features:

- . Continuous duty operation
- . Adjustable hydraulic pressures
- . 4 different operating logics
- . Pre-assembled counterbalanced system
- . Automated fan cooling on all models
- . Pause time selections
- . Selectable warning light logic
- . Quiet operation
- . Fast opening time (2 sec. for 8.5 ft. beam)
- . Built In loop detectors

Note: An optional (recommended) foundation plate, barrier beams, and other accessories are sold separately (see pages 102-108). For information on articulated or skirted beam kits, see page 108.

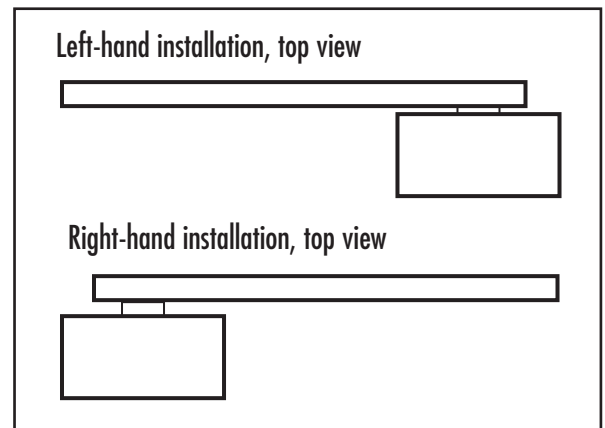
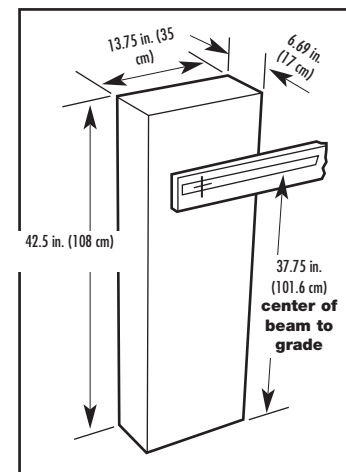


FAAC Model 620 barrier gate operator

Model 624 BLD Control Panel Operating Logics

- E = Garage door-like logic: signal to open, signal to close
- As = Automatic logic: one signal opens the gate and closes it after a timed pause
- . "A" logic can be set to function as an anti-tailgating logic
 - . With "pre-flashing" selected by the dip switches, the control panel acts typically like other FAAC panels
 - . Without "pre-flashing" selected, the control panel functions more like the "S" logic on other FAAC panels
- P = For parking applications requiring separate open and close controls; useful in retrofitting parking barrier gate applications

Plug in detectors available; DP2, (p/n 785599) with 2-channel capability, meaning only one detector is needed to handle both free exit and safety



You must know the orientation of your barrier when ordering a Model 620.

* Measurements and weights stated in this Price List are approximate. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278 or 1-866-925-3222.

Model 620 | Hydraulic Barrier Gate Operators

Model 620 Rapid 230 VAC

- . 100% duty cycle
- . includes Model 624 BLD control panel
- . automatic cooling fan
- . beams must be ordered separately (see page 106)
- . articulated beam kit available (see page 108)
- . built in loop detectors 2 channels

FYI

Beams, because of their size, must be shipped by truck. Freight charges for shipping can be as much or more than the cost of the beam. Please request a freight quote from FAAC to determine total costs.

Orientation	Voltage	Orange cabinet		White cabinet		Beam Length - Aluminum
		Number	Price	Number	Price	
Left Hand Right Hand	230 VAC	10463282	\$4,040	10463283	\$4,040	6.5 ft (2 m)
	230 VAC	10465282	\$4,040	10465283	\$4,040	6.5 ft (2 m)
Left Hand Right Hand	230 VAC	10463382	\$4,040	10463383	\$4,040	8.5 ft (2.6 m)
	230 VAC	10465382	\$4,040	10465383	\$4,040	8.5 ft (2.6 m)
Left Hand Right Hand	230 VAC	10463482	\$4,040	10463483	\$4,040	9.75 ft (3 m)
	230 VAC	10465482	\$4,040	10465483	\$4,040	9.75 ft (3 m)
Left Hand Right Hand	230 VAC	10463582	\$4,040	10463583	\$4,040	13 ft (3.9 m)
	230 VAC	10465582	\$4,040	10465583	\$4,040	13 ft (3.9 m)

Speed to Clear 90°	Maximum Duty Cycle	Pump Size (liters)	Motor RPM	Actual Pump Output (liters)	Shipping Weight
2.0 sec	100%	1.0	2800	2.0	170 lb (77.1 kg)
2.0 sec	100%	1.0	1400	1.5	170 lb (77.1 kg)

Control Panel (replacement)

Description	Part No.	Price
624 BLD 230 VAC	63000395	\$819

Plug-In Loop Detector

Description	PIN	Price
DP2 2Channel	785599	\$447

Orientation	Voltage	Orange cabinet		White cabinet		Beam Length - Aluminum
		Part Number	Price	Part Number	Price	
Left Hand Right Hand	115 VAC	104634821	\$4,040	104634831	\$4,040	9.75 ft (3 m)
	115 VAC	104654821	\$4,040	104654831	\$4,040	9.75 ft (3 m)
Left Hand Right Hand	115 VAC	104635821	\$4,040	104635831	\$4,040	13 ft (3.9 m)
	115 VAC	104655821	\$4,040	104655831	\$4,040	13 ft (3.9 m)

Speed to Clear 90°	Maximum Duty Cycle	Pump Size (liters)	Motor RPM	Actual Pump Output (liters)	Shipping Weight
2.0 sec	100%	1.0	1400	1.5	170 lb (77.1 kg)
2.0 sec	100%	1.0	1400	1.5	170 lb (77.1 kg)

Control Panel (replacement)

Description	Part Number	Price
624 BLD 115 VAC	20227125	\$819

Visit us online at

www.faacusa.com

Model 640

Barrier Gate Operators



- Designed for high traffic applications
- Two year limited warranty (see back cover)

To guarantee the safety and efficiency of its equipment, FAAC strongly recommends that qualified personnel test the safety system on an annual basis, as well as maintain the overall hydraulic or mechanical system.

Model 640

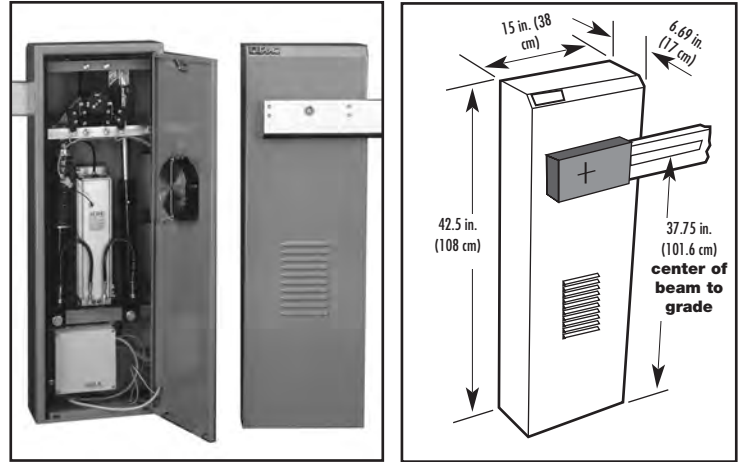
Model 640 Hydraulic Barrier Gate Operators

UL
325

The U.L. Listed Model 640 barrier gates are designed for high traffic situations where longer beams are needed.

The 640 is shipped with the Model 624 BLD control panel and has the following features:

- . Continuous duty operation
- . Adjustable hydraulic pressures to control swing
- . 4 different operating logics
- . Pre-assembled counterbalanced system
- . Automated fan cooling on all models
- . Pause time selections
- . Selectable warning light logic
- . Quiet operation
- . Built In loop detector

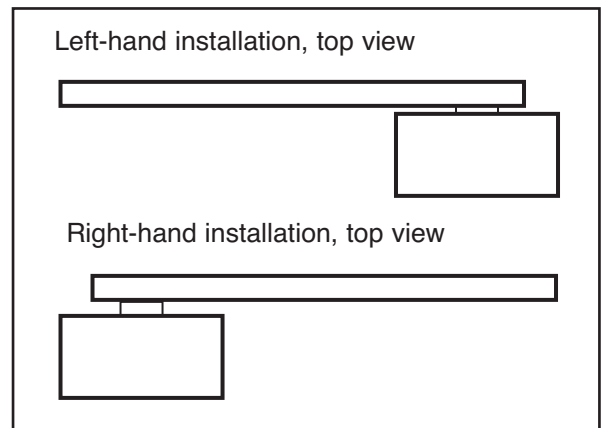


FAAC Model 640 barrier gate operator

Note: An optional (recommended) foundation plate, emergency bypass solenoid, barrier beams, and other accessories are sold separately (see pages 102-108). For information on articulated or skirted beam kits, see page 108.

Model 624 BLD Control Panel Operating Logics

- E = Garage door-like logic: signal to open, signal to close
- As = Automatic logic: one signal opens the gate and closes it after a timed pause
- . "A" logic can be set to function as an anti-tailgating logic
 - . With "pre-flashing" selected by the dip switches, the control panel acts typically like other FAAC panels
 - . Without "pre-flashing" selected, the control panel functions more like the "S" logic on other FAAC panels
- P = For parking applications requiring separate open and close controls; useful in retrofitting parking barrier gate applications



You must know the orientation of your barrier when ordering a Model 640.

* Measurements and weights stated in this Price List are approximate. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278 or 1-866-925-3222.

Model 640 Hydraulic Barrier Gate Operators

UL
325

Model 640 230VAC

- . 100% duty cycle
- . includes Model 624 BLD control panel
- . automatic cooling fan
- . beam must be ordered separately (see page 107)
- . skirt beam kit available (see page 108)
- . built-in loop detectors 2 channel

FYI

Beams, because of their size, must be shipped by truck. Freight charges for shipping can be as much or more than the cost of the beam. Please request a freight quote from FAAC to determine total costs.

	Voltage	Orange cabinet		White cabinet		Spring Number	Beam Length Aluminum	Speed to Clear 90°	Pump Size (liters)	Actual Pump Motor RPM	Output (liters)	Max. Duty Cycle	Weight Shipping
		Part Number	Price	Part Number	Price								
Left Hand Right Hand	230 VAC 230 VAC	10468282 10466082	\$4,444 \$4,444	10468283 10466083	\$4,444 \$4,444	7210735	13 ft (3.9 m) 13 ft (3.9 m)	4.0 sec 4.0 sec	1.0 1.0	2800 2800	2.0 2.0	100% 100%	200 lb (90.7 kg.) 200 lb (90.7 kg.)
Left Hand Right Hand	230 VAC 230 VAC	10468382 10466182	\$4,444 \$4,444	10468383 10466183	\$4,444 \$4,444	7210745	16.5 ft (5 m) 16.5 ft (5 m)	5.5 sec 5.5 sec	1.5 1.5	1400 1400	1.5 1.5	100% 100%	200 lb (90.7 kg.) 200 lb (90.7 kg.)
Left Hand Right Hand	230 VAC 230 VAC	10468482 10466282	\$4,444 \$4,444	10468483 10466283	\$4,444 \$4,444	7210755	20 ft (6 m) 20 ft (6 m)	8 sec 8 sec	1.0 1.0	1400 1400	1.0 1.0	100% 100%	200 lb (90.7 kg.) 200 lb (90.7 kg.)
Left Hand Right Hand	230 VAC 230 VAC	10468582 10466382	\$4,444 \$4,444	10468583 10466383	\$4,444 \$4,444	7210805	23 ft (7 m) 23 ft (7 m)	8 sec 8 sec	1.0 1.0	1400 1400	1.0 1.0	100% 100%	200 lb (90.7 kg.) 200 lb (90.7 kg.)

* Measurements and weights stated in this Price List are approximate. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-866-925-322.

Plug-In Loop Detector

Description	PIN	Price
DP2 2Channel	785599	\$447

Control Panel (replacement)

Description	Part No.	Price
624 BLD 230 VAC	63000395	\$819

Orientation	Voltage	Orange cabinet		White cabinet		Spring Number	Beam Length -Aluminum	Speed to Clear 90°	Pump Size (liters)	Actual Motor RPM	Output (liters)	Max. Duty Cycle	Weight Shipping
		Part Number	Price	Part Number	Price								
Left Hand Right Hand	115 VAC 115 VAC	104682821 104660821	\$4,444 \$4,444	104682831 104660831	\$4,444 \$4,444	7210735	13 ft (3.9 m) 13 ft (3.9 m)	5.5sec 5.5sec	1.5 1.5	1400 1400	1.5 1.5	1.5 1.5	200 lb (90.7 kg) 200 lb (90.7 kg)
Left Hand Right Hand	115 VAC 115 VAC	104683821 104661821	\$4,444 \$4,444	104683831 104661831	\$4,444 \$4,444	7210745	16 1/2 ft (5 m) 16 1/2 ft (5 m)	5.5 sec 5.5 sec	1.5 1.5	1400 1400	1.5 1.5	1.5 1.5	200 lb (90.7 kg) 200 lb (90.7 kg)
Left Hand Right Hand	115 VAC 115 VAC	104684821 104662821	\$4,444 \$4,444	104684831 104662831	\$4,444 \$4,444	7210755	20 ft (6 m) 20 ft (6 m)	8 sec 8 sec	1.0 1.0	1400 1400	1.0 1.0	1.0 1.0	200 lb (90.7 kg) 200 lb (90.7 kg)
Left Hand Right Hand	115 VAC 115 VAC	104685821 104663821	\$4,444 \$4,444	104685831 104663831	\$4,444 \$4,444	7210805	23 ft (7 m) 23 ft (7 m)	8 sec 8 sec	1.0 1.0	1400 1400	1400 1400	1.0 1.0	200 lb (90.7 kg) 200 lb (90.7 kg)

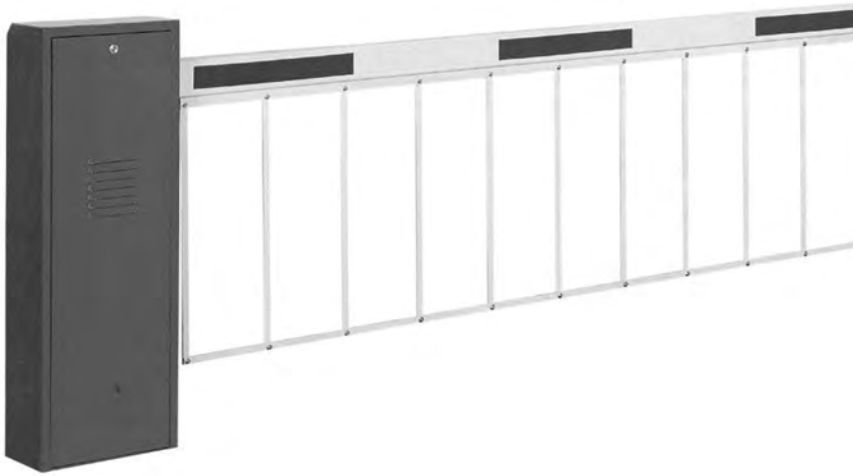
Control Panel (replacement)

Description	Part No.	Price
624 BLD 115 VAC	20227125	\$819

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Contents | Barrier Gate Operators



NOTE:
The following accessories are specific to barrier operators only.

Other accessories that work with all types of FAAC operators, such as safety devices, access control systems, etc., are listed in the General Accessories Section, page 122.

To guarantee the safety and efficiency of its equipment, FAAC strongly recommends that qualified personnel test the safety system on an annual basis, as well as maintain the overall hydraulic or mechanical system.

Barrier Accessories

Accessories | Barrier Gate Accessories

1. 620 Foundation Plate

The plate measures 14 in. x 7.86 in., has 4 holes for anchoring bolts, and has a hole for electrical conduits.

SHIPPING WEIGHT	10 lb (4.5 kg)
PART NUMBER	2277
PRICE:	\$247

3. 640 Foundation Plate

The plate measures 15.25 in. x 9 in., has 4 holes for anchoring bolts, and has a hole for electrical conduits.

SHIPPING WEIGHT	14 lb (6.4 kg)
PART NUMBER	2697
PRICE:	\$294

2. 615 Foundation Plate

The plate measures 12 in. x 12 in., has 4 holes for anchoring bolts, and has a hole for electrical conduits.

SHIPPING WEIGHT	9 lb (4.1 kg)
PART NUMBER	2556
PRICE:	\$185

4. Anti-Vandalism Valve

Protects the integrity of the hydraulic system in the event the beam is forced

SHIPPING WEIGHT	3 lb (1.4 kg)
PART NUMBER	401066
PRICE:	\$435

FYI

Beams, because of their size, must be shipped by truck. Freight charges for shipping can be as much or more than the cost of the beam. Please request a freight quote from FAAC to determine total costs.

* Measurements and weights stated in this Price List are approximate. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278 or 1-866-925-3222.

Accessories | Barrier Gate Accessories

5. 624 Slave Card

The optional slave card enables two opposing barriers to operate simultaneously.

NOTE: Replacements for barriers with an MPS board

SHIPPING WEIGHT	1 lb (.5kg)
PART NUMBER	790846
PRICE:	\$134

7. 624 Relay Card

The optional relay card provides 6 normally open electrical contacts for connecting auxiliary equipment (computer controls, revenue equipment, alarms, etc.) or monitoring the barrier's status.

NOTE: Replacements for barriers with an MPS board

SHIPPING WEIGHT	1 lb (.5 kg)
PART NUMBER	360013
PRICE:	\$339

6. 624 FSW Card

The optional FSW card enables safety devices to work when a 620/640 barrier is operating in the P (parking) mode.

NOTE: Replacements for barriers with an MPS board.

SHIPPING WEIGHT	1 lb (.5 kg)
PART NUMBER	790847
PRICE:	\$134

8. Hinged Breakaway System (with sensor kit)

For use with round beams on the Model 620 barrier.

SHIPPING WEIGHT	
PART NUMBER	428163+
PRICE:	\$958

FYI

Beams, because of their size, must be shipped by truck. Freight charges for shipping can be as much or more than the cost of the beam. Please request a freight quote from FAAC to determine total costs.

* Measurements and weights stated in this Price List are approximate. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278 or 1-866-925-3222.

Accessories | Barrier Gate Accessories

9. 615 Aluminum Beams

All aluminum beams measure 1 in. x 4 in. x length of beam ordered. (Length of the 615 beams must be 6 ft. thru 13 ft. only.)

6 Foot (1.8 m) Length

SHIPPING WEIGHT	10lbs
PART NUMBER	428087
PRICE:	\$309

8 Foot (2.4 m) Length

SHIPPING WEIGHT	12 lbs
PART NUMBER	428088
PRICE:	\$394

10 Foot (3 m) Length

SHIPPING WEIGHT	15 lbs
PART NUMBER	428089
PRICE:	\$440

13 Foot (4 m) Length

SHIPPING WEIGHT	19.5 lbs
PART NUMBER	428090
PRICE:	\$505

10. 615 Beam Bracket

For use with rectangular aluminum beams on the model 615. (Included when order a barrier with an arm

PART NUMBER	428342
PRICE:	\$117

FYI

Beams, because of their size, must be shipped by truck. Freight charges for shipping can be as much or more than the cost of the beam. Please request a freight quote from FAAC to determine total costs.

FYI

Aluminum beams ordered with a barrier will be shipped with appropriate fixing bracket; Beams ordered separately will be assumed to be replacement beams only & will not included fixing bracket.

* Measurements and weights stated in this Price List are approximate. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278 or 1-866-925-3222.

Accessories | Barrier Gate Accessories

11. 620 Aluminum Beams

All 620 rectangular aluminum beams measure 1 in. x 4 in. x the length of the beam ordered. For skirted or articulated beams order the length beam needed and the skirt kit or articulated beam kit. (See page 108 of this section)

6 Foot (1.8 m) Length Rectangular Round

SHIPPING WEIGHT	10 lbs	
PART NUMBER	428087	NA
PRICE	\$309	

8 Foot (2.4 m) Length Rectangular Round

SHIPPING WEIGHT	12 lbs	
PART NUMBER	428088	428045
PRICE	\$394	\$340

10 Foot (3 m) Length Rectangular Round

SHIPPING WEIGHT	15 lbs	
PART NUMBER	428089	428042
PRICE	\$440	\$410

13 Foot (4 m) Length Rectangular Round

SHIPPING WEIGHT	19.5 lbs	
PART NUMBER	428090	NA
PRICE	\$505	

10 Foot (3 m) Length Round Drilled for Breakaway

SHIPPING WEIGHT	15 lbs	
PART NUMBER	428176	
PRICE	\$536	

12A. 620 Beam Bracket - Rectangular

For use with rectangular aluminum beams on the model 620. (Included when order a barrier with arm)

PART NUMBER	428342
PRICE	\$117

12B. 620 Beam Bracket - Round

For use with round aluminum beams on the model 620. (Included when order a barrier with arm)

PART NUMBER	428152
PRICE:	\$311

12C. Kit For Connecting Round Beams Lights

PART NUMBER	390992
PRICE:	\$72

12D. LED Package 36FT (11M) For Round beams

PART NUMBER	390993
PRICE:	\$320

FYI

Beams, because of their size, must be shipped by truck. Freight charges for shipping can be as much or more than the cost of the beam. Please request a freight quote from FAAC to determine total costs.

FYI

Aluminum beams ordered with a barrier will be shipped with appropriate fixing bracket; Beams ordered separately will be assumed to be replacement beams only & will not included fixing bracket.

REPLACING OLDER BEAMS

When replacing beams on 620 barriers older than a 10/05 serial #, the fixing bracket will have to be replaced (part#:428342) and an adapter will be needed (part#:390265)

* Measurements and weights stated in this Price List are approximate. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278 or 1-866-925-3222.

Accessories | Barrier Gate Accessories

13. 640 Aluminum Beam

All 640 rectangular aluminum beams measure 2 in. x 4 in. x length of beam order. For the skirted beams order the aluminum beam and the skirted beam kit. (See page 108 of this section)

13' (4m) Length Rectangular Round

SHIPPING WEIGHT	22 lbs	
PART NUMBER	428061	NA
PRICE	\$531	

16' (5m) Length Rectangular Round

SHIPPING WEIGHT	28 lbs	
PART NUMBER	428062	NA
PRICE	\$592	

20' (6m) Length Rectangular Round

SHIPPING WEIGHT	30 lbs	
PART NUMBER	428063	NA
PRICE	\$697	

23' (7m) Length Rectangular Round

SHIPPING WEIGHT	36 lbs	
PART NUMBER	428064	NA
PRICE	\$819	

14. 640 Beam Bracket

For use with rectangular aluminum beams on the model 640. (Included when order a barrier with an arm)

PART NUMBER	428154
PRICE	\$246

FYI

Aluminum beams ordered with a barrier will be shipped with appropriate fixing bracket; Beams ordered separately will be assumed to be replacement beams only & will not include fixing bracket.

FYI

Beams, because of their size, must be shipped by truck. Freight charges for shipping can be as much or more than the cost of the beam. Please request a freight quote from FAAC to determine total costs.

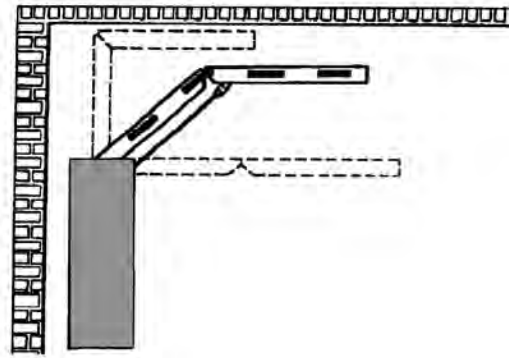
* Measurements and weights stated in this Price List are approximate. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278 or 1-866-925-3222.

Accessories | Barrier Gate Accessories

15. Articulated Beam Kits

Articulated beams are used in parking garages or other applications with low overhead clearances. In addition to ordering a rectangular aluminum beam for your Model 620 barrier, you need to order this kit. The kit will handle a maximum 9 ft ceiling height. FAAC will articulate the beam for you. Supply us, in writing, the distance between the base of the barrier cabinet and the ceiling. You can print this form and send us the information required.

SHIPPING WEIGHT	15 lb (6.8 kg)
PART NUMBER	428137
PRICE:	\$840



Articulated Beam

16. Skirted Beam Kits

A skirted beam keeps vehicles from passing under a barrier beam and consists of a rectangular aluminum beam (ordered separately) and one or more kits for skirting the beam. Each kit is a series of interlocking, jointed metal pieces forming a framework you attach to the bottom of the beam. When the beam raises, gravity causes the skirting to collapse against the vertical beam.

If you are retrofitting the skirt to an existing beam, call us about whether you need a different compression spring for your operator.

Order a combination of kits whose combined length is 1 foot shorter than the length of your rectangular aluminum beam:

- . One kit contains mounting hardware and the metal skirt that is about 6 feet (more precisely, 2 meters) long. The kit will work with Models 620 and 640 barriers.

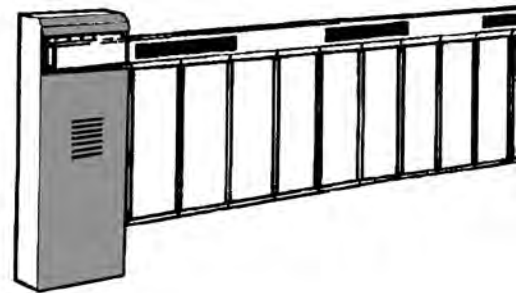
- . The other kit contains mounting hardware and the metal skirt that is about 10 feet (more precisely, 3 meters) long. The kit will work with Models 620 and 640 barriers.

6 Foot (2 m) Skirt Kit

SHIPPING WEIGHT	5 lb (2.3 kg)
PART NUMBER	4282431
PRICE:	\$516

10 Foot (3 m) Skirt Kit

SHIPPING WEIGHT	10 lb (4.5 kg)
PART NUMBER	4282441
PRICE:	\$740



Skirted Beam
(comes assembled,
ready to attach to beam)

* Measurements and weights stated in this Price List are approximate. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278 or 1-866-925-3222.

Slide Gate Operators

The logo for FAAC, featuring the letters 'FAAC' in a bold, stylized, black font. The 'F' and 'A' are connected, and the 'C' has a distinctive shape. The logo is positioned in the lower-left quadrant of the slide, partially overlapping a large, light gray graphic element that resembles a stylized 'E' or a series of horizontal bars with diagonal cutouts on the right side.

FAAC

Contents

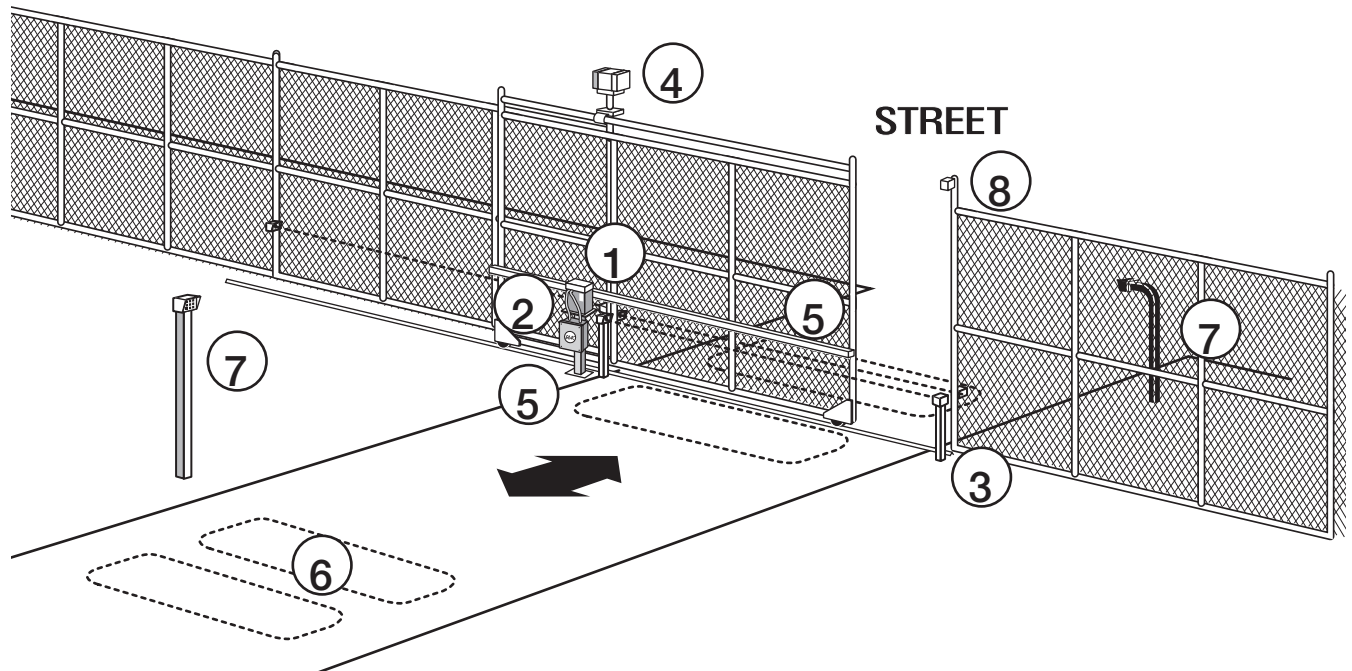
Slide Gate Operators

Model 746	113
Model 844	114
Model 740	116

FAAC Swing and Slide Gate Operators			
Application	Cycles Per Hour	Swing Model	Slide Model
Single family, Low Traffic	30	412/402/422 750	740 746
Single family, Moderate Traffic	30	402/422 750	746 844
High Traffic	Continuous Duty	400	844

Slide Operators

Example of a Complete Slide Gate System



No.	Description	More Information
①	<p>The slide gate operator automates the gate and is available with chain or rack and pinion drive:</p> <ul style="list-style-type: none"> - Chain offers easy installation - Rack and pinion offers elegant, low maintenance and improved security 	
②	<p>The U.L. Listed weather resistant accessory interface box houses the control panel for the operator and its accessories</p>	
③	<p>Photobeam sets help prevent entrapment between the sliding gate leaf and another object by using the safety logic of the control panel.</p>	
④	<p>The warning light alerts anyone near the gate of its movement and can light the gateway.</p>	
⑤	<p>The mounting pedestal provides a platform for mounting the operator.</p>	
⑥	<p>Vehicle sensors (inductive loops) activate the operator to prevent the gate from closing on a vehicle. Talk to our sales staff about whether your installation requires a safety, free exit, and/or closing (security) loop.</p>	
⑦	<p>Activating switches allow the opening or closing of the gate. The switch may be activated by the following:</p> <ul style="list-style-type: none"> - Key - Card - Keyboard code 	
⑧	<p>The antenna for the radio receiver and transmitter allows remote control of the gate.</p>	



- Designed for residential and light commercial applications
- Two year limited warranty (see back cover)

FAAC operators for sliding gates are among the safest available. The anti-entrapment and security protection provided by all gate operators can and should be improved with photocells, loop detectors, sensing edges and/or other similar devices. FAAC strongly recommends that devices such as these be installed with all automated gate systems.

To guarantee the safety and efficiency of its equipment, FAAC strongly recommends that qualified personnel test the safety system on an annual basis, as well as maintain the overall hydraulic or mechanical system.

Models 746 and 844

Model 746 | Slide Gate Operators

Features include:

- 230 VAC
- External limits
- Manual release
- “Soft Stop” on opening and closing
- 1/2 hp motor
- Pulling force: 35 lb (16 kg)
- Speed: 50 ft/min (12 m/min)
- Gate Weight: 1,400 lb (636 kg)
- Duty cycle: 70% motor run time



Model	Package Includes	Weight	Voltage	Number	Price
746 – Chain	One operator, 780D control panel, 16 or 20 tooth sprocket, protective cover, limit switch plates, mounting angle brackets, chain-to-gate mounting hardware with nickel plated master links, warning signs Note: Chain is not included (see charts below)	50 lb (22.7 kg)	230 VAC	109775	\$1,719
746 – Rack & Pinion	One operator, 780D control panel, 20 tooth pinion, mounting angle brackets and limit switch plates Note: Rack is not included (see charts below)	44 lb (20 kg)	230 VAC	109773	\$1,719

Accessory	Description	Shipping Weight	Part Number	Price
Nickel Chain	#40 chain Two master links shipped with each length of chain. Sold in 10 ft lengths only.	.5 lb/ft (.2 kg)	2000	\$7/ft
Stainless Steel Chain	"	.5 lb/ft (.2 kg)	2002	\$21/ft
Gear Rack	Galvanized steel rack is 3.28 ft long, works with any FAAC slider, comes with rack-to-gate hardware Sold per box (4 sections per box)	24 lb (11 kg) per box	490122	\$240 per box (pkg of 4 sections)
Foundation Plate	For ground level mounting, is 6 x 10.5 in., comes with rebar anchors	6 lb (2.7 kg)	2278	\$87
Mounting Pedestal	For elevated mounting, 18 in. galvanized	18 lb (8.2 kg)	2411	\$256
Photobeam	Directional with diagonal alignment; required for UL-325 compliance.	2 lb (1 kg)	785163	\$244
Receiver	FAAC single channel	1 lb (.5 kg)	1RP418DS	\$79
Transmitter	FAAC single button	1 lb (.5 kg)	1TM418DS	\$45
Transmitter	FAAC two button	1 lb (.5 kg)	787317	\$53
Antenna	FAAC tuned antenna kit	2 lb (1 kg)	412003	\$88
Control Panel (replacement)	Model 780 D	2 lb (.9 kg)	7909212	\$654
Control Panel (replacement)	Adapter Kit Replacement (w/ 780D board & access)	3 lb (.9 kg)	490114	\$673
Sprockets (replacement)	Z16 – pin shaft		719137	\$88 (No charge when ordered with operator only)
	Z20 – pin shaft		719135	\$96 (No charge when ordered with operator only)
Transmitter	4 Channel Transmitter XT 4433 RC		787453	\$23
Receiver	Receiver 433 RC Plug In		787741	\$42

* Maximum Gate Length is limited by the Pulling Force requirement and the 746's maximum motor run time of two minutes.* Note: Measurements and weights stated in this Price List are approximate. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278 or 1-866-925-3222.

* The anti-entrapment protection and security protection provided by the 746 can and should be improved with photocells, loop detectors, sensing edges and/or other similar devices. FAAC strongly recommends that devices such as these be installed with all automated gate systems.

Model 844 | Slide Gate Operators

Features include:

- 115V - Rack & Pinion and chain
- External limits
- Manual release
- “Soft Stop” on opening and closing
- 3/4 hp motor
- Oil immersed clutch which, when properly adjusted, limits the amount of pressure the operator can apply to moving the gate
- Pulling force: 250LbF
- Speed: 50 ft/min (12 m/min)
- Gate Weight: 4,000 lb (1818 kg)
- Duty cycle: Heavy Duty



Model	Package Includes	Weight	Voltage	Number	Price
844 – Chain UL	One operator, 780 D control panel, 16 or 20 tooth sprocket, protective cover, limit switch plates, mounting angle brackets, chain-to-gate mounting hardware with nickelplated master links. Note: Chain is not included (see charts below)	43 lb (20 kg)	115 VAC	1098951	\$2,350
844 – Rack & Pinion UL	One operator, 780 D control panel, 16 tooth pinion, mounting angle brackets and limit switch plates. Note: Rack is not included (see charts below)	43 lb (20 kg)	115 VAC	1098371	\$2,350

Accessory	Description	Shipping Weight	Part Number	Price
Nickel Chain	#40 Chain Two master links shipped with each length of chain. Sold in 10 ft lengths only.	.5 lb/ft (.2 kg)	2000	\$7/ft
Stainless Steel Chain	"	.5 lb/ft (11 kg)	2002	\$21/ft
Gear Rack	Galvanized steel rack is 3.28 ft long, works with any FAAC slider and comes with rack-to-gate hardware (comes in pkg of 4)	24 lb (2.7 kg) per box	490122	\$240 per box Pkg of 4 sections
Foundation Plate	For ground level mounting, is 6 x 10.5 in., comes with rebar anchors to set in concrete pad	6 lb (2.7 kg)	2278	\$87
Mounting Pedestal	For elevated mounting, 18 in. galvanized	21 lb (9.5 kg)	2411	\$256
Photobeam	Directional with diagonal alignment; required for UL-325 compliance.	2 lb (1 kg)	785163	\$244
Receiver	FAAC single channel	1 lb (.5 kg)	1RP418DS	\$79
Transmitter	FAAC single button	1 lb (.5 kg)	1TM418DS	\$44
Transmitter	FAAC two button	1 lb (.5 kg)	787317	\$53
Antenna	FAAC tuned antenna kit	2 lb (1 kg)	412003	\$88
Control Panel (replacement)	Model 780 D 115V	2 lbs	79092112	\$654
Control Panel (replacement)	Model 780 D 230V	2 lbs	7909212	\$654
Control Panel (replacement)	Adapter Kit Replacement (w/780D board & access) 230V	3 lbs	490114	\$673
Sprockets (replacement only)	Z16 – pin shaft		719137	\$88
	Z20 – pin shaft	(No charge when ordered with operator only)	719135	\$96
		(No charge when ordered with operator only)		
Transmitter	4 Channel Transmitter XT 4433 RC		787453	\$23
Receiver	Receiver 433 RC Plug In		787741	\$42
844 Enclosure	Audio Alarm Enclosure		5000	\$120

Maximum Gate Length is limited by the Pulling Force requirement and the 844's maximum motor run time of four minutes.

* Measurements and weights stated in this Price List are approximate. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278 or 1-866-925-3222.

Visit us online at

www.faacusa.com



- Designed for heavy duty applications
- Two year limited warranty
(see back cover)

FAAC operators for swinging gates are among the safest available. The anti-entrapment and safety provided by all gate operators can and should be improved with photocells, loop detectors, sensing edges and/or other similar devices. FAAC strongly recommends that devices such as these be installed with all automated gate systems.

To guarantee the safety and efficiency of its equipment, FAAC strongly recommends that qualified personnel test the safety system on an annual basis, as well as maintain the overall hydraulic or mechanical system.

Model 740

Model 740 | Slide Gate Operator

The Model 740 was designed as a rack & pinion operator for residential applications using a gate weighing a maximum of 880 pounds.

- . Gate automatically locks when not operating
- . Slow down “soft stop” on opening and closing
- . Operates even in case of power failure (subject to battery condition)
- . External limits
- . Convenient manual release



Model 740 (24 volt)

Specifications (Rack & Pinion configuration only)	
Voltage	Primary: 115 VAC Secondary: 24vdc (100va transformer)
Duty Cycle	100%
Maximum weight per gate leaf	880 lb (399 kg)
Maximum length per gate leaf	30 ft (9.1 m)
Absorbed power/absorbed current	70 W/3 A
Approx. operating temperature range	-4°F to 131°F (-20°C to 55°C)

NOTE: Operator specifications are approximate. Environmental factors can change the performance of the operator.

Model	Kit Includes	Shipping Wt (approx.)	Voltage	Part Number	Price
Model 740 Single Basic Kit (no peripherals)	1 Operator, 1 Control Panel, Transformer, Foundation plate (12" x 7")	30lb. (13.6 kg)	24vdc (Transformer)	10978021	\$1,217
724D Control Panel (replacement only)				790939	\$695
Gear Rack (3.28 ft) (Nylon)				4901204	\$60
Battery Back-up Kit	To add battery function to your system, kit includes: 2 batteries (1.2 amp hour) wiring cable, support bracket (fits inside cover)	2 lb (.9 kg)	12vdc	390901	\$155
Battery	1.2 amp hour (replacement only)	1 lb (.45 kg)	12vdc	3633	\$68
Photobeam				785163	\$244
Transmitter	4 Channel transmitter XT 4433 RC			787453	\$23
Receiver	Receiver 433 RC Plug In			787741	\$42

Visit us online at

www.faacusa.com

Accessories

The logo for FAAC, featuring the letters 'FAAC' in a bold, black, sans-serif font. The letter 'F' is stylized with a diagonal slash through it. The logo is positioned in the lower-left corner of the page, partially overlapping a large, light gray, stepped graphic element that extends from the left edge of the page.

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To guarantee the safety and efficiency of its equipment, FAAC strongly recommends that qualified personnel test the safety system on an annual basis, as well as maintain the overall hydraulic or mechanical system.

Two Year Limited Warranty on those accessories manufactured by FAAC (see back cover).

ACCESSORIES

Accessories | Barrier Gate Accessories

17. DigiKeyboard

Entering a 4 digit combination on the 9 button keyboard actuates the gate. May be programmed to one of 4,095 combinations.

Features:

.Required power supply: 24 VDC (available on FAAC control panels.) Indoor or outdoor use

.For use with A, E, and S FAAC control panel logics:

A = automatic logic: signal to open; gate closes automatically after timed pause

E = garage door-like logic: signal to open; signal to close

S1 = security logic: similar to A logic, useful in reducing tailgating

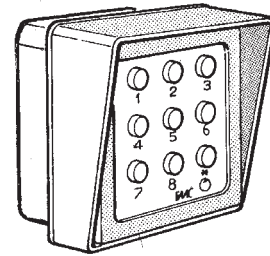
Dimensions:

2.75 in. high x 2.75 in. wide x 3.43 in deep (7 cm x 7 cm x 8.7 cm). Depth measurement includes housing.

The DigiKeyboard requires the following additional equipment (priced separately):

.Metal Housing (see #20 this section), Plastic Housing (see #21 this section), or Mounting Post Kit (see page 51)

.DS Decoder , (formerly called the MD01) (see #19 this section)



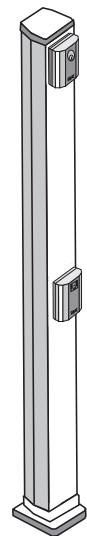
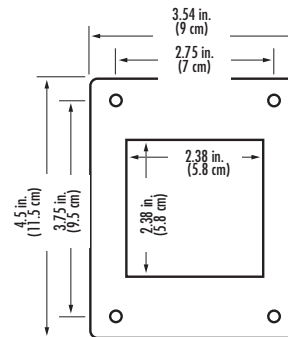
DigiKeyboard

Double Mounting Post for Digikey

Features:

.Anodized aluminum

. Double post (holds Digikey): 44 in. (111.5 cm)



401034/
737630+

Mounting Post Footprint

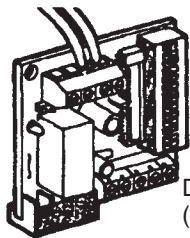
SHIPPING WEIGHT	9 lb
PART NUMBER	401034/737630+
PRICE:	\$198

SHIPPING WEIGHT	1 lb (.5 kg)
PART NUMBER	404005
PRICE:	\$425each

18. DS Decoder

(formerly MD01)

This is the "brain" behind the DigiCard and DigiKeyboard Systems. Dip switches provide for code selection. More than one DS Decoder



DS Decoder
(formerly MD01)

may be used if multiple codes are desired.

Features:

.Required power supply: 24 VDC (available on FAAC control panels.)

.Plugs into 455 D control panel

SHIPPING WEIGHT	2 lb (1 kg)
PART NUMBER	785502
PRICE:	\$133

* Measurements and weights stated in this Price List are approximate. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278 or 1-866-925-3222.

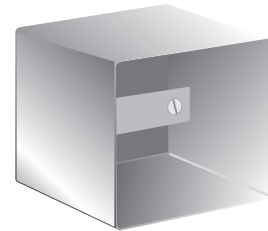
Accessories | Barrier Gate Accessories

19. Metal Housing for DigiCard Reader & DigiKeyboard

Painted mild steel.

Dimensions: 2.75 in. high x 2.75 in. wide x 2.25 in. deep (7 cm x 7 cm x 5.7 cm)

SHIPPING WEIGHT	3 lb (1.4 kg)
PART NUMBER	720037
PRICE	\$44

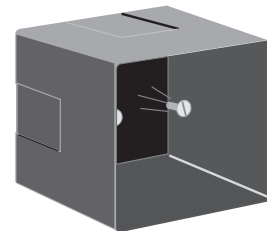


Metal Housing for DigiCard Reader & DigiKeyboard

20. Plastic Housing for DigiCard Reader & DigiKeyboard

Dimensions: 2.75 in. high x 2.75 in. wide x 2.25 in. deep (7 cm x 7 cm x 5.7 cm)

SHIPPING WEIGHT	2 lb (1 kg)
PART NUMBER	720043
PRICE:	\$15



Plastic Housing for DigiCard Reader & DigiKeyboard

21. T10 Key Switch

Features:

- .Switch rating: 250 VAC; 10 amps
- .Indoor or outdoor use
- .Key returns when released
- .N.O. (Normally Opened) and N.C. (Normally Closed)

Connection

For use with A, E, and S FAAC control panel logics:

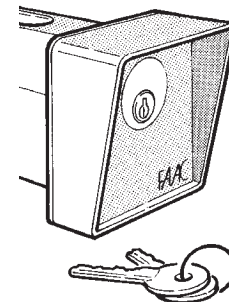
- A = automatic logic: signal to open; gate closes automatically after timed pause
- E = garage door-like logic: signal to open; signal to close
- S1 = security logic: similar to A logic, useful in reducing tailgating

Dimensions: 2.75 in. high x 2.75 in. wide x 4 in. deep (7 cm x 7 cm x 10.2 cm) Depth measurement includes housing.

The T-10 Key Switch requires the following additional equipment (priced separately):

- .Metal housing (see #25 this section) or Plastic Housing (see #26 this section)

SHIPPING WEIGHT	2 lb (1 kg)
PART NUMBER	401010036
PRICE:	\$108



T10 Key Switch

* Measurements and weights stated in this Price List are approximate. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278 or 1-866-925-3222.

Accessories | Barrier Gate Accessories

22. T-10E Key Switch

Features:

- .Switch rating: 250 VAC; 10 amps
- .Indoor or outdoor use
- .Key returns when released
- .N.O. (Normally Opened) and N.C. (Normally Closed)

Connection

For use with A, E, and S FAAC control panel logics:

A = automatic logic: signal to open; gate closes automatically after timed pause

E = garage door-like logic: signal to open; signal to close

S1 = security logic: similar to A logic, useful in reducing tailgating

Dimensions: 3.75 in. high x 2.75 in. wide x 1.75 in. deep (9.5 cm x 7 cm x 4.5 cm)

.Classy brushed aluminum look

.Designed to fit into the popular FAAC brushed aluminum photobeam stand (See p. 67 of the Price List)



T-10E Key Switch

SHIPPING WEIGHT	2 lb (1 kg)
PART NUMBER	401019036
PRICE:	\$112

* Measurements and weights stated in this Price List are approximate. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278 or 1-866-925-3222.

Accessories | Entry Systems and Security Devices

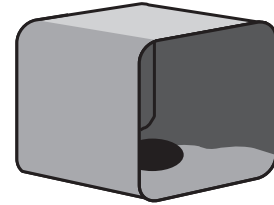
23. Multi-Use Metal Housing

(For T-10 Key Switch, Two Button FAAC Switch, and some photocells)

Powder coated steel.

Dimensions: 2.5 in. high x 2.5 in. wide x 2.75 in. deep
(6.4 cm x 6.4 cm x 7 cm)

SHIPPING WEIGHT	3 lb (1.4 kg)
PART NUMBER	720089
PRICE:	\$44



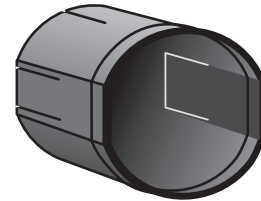
Multi-Use Metal Housing

24. Multi-Use Plastic Housing

(For T-10 Key Switch, Two Button FAAC Switch, and some photocells)

Dimensions: 2.5 in. high x 2.25 in. wide x 2.75 in. deep
(6.4 cm x 5.7 cm x 7 cm)

SHIPPING WEIGHT	1 lb (.5 kg)
PART NUMBER	720086
PRICE:	\$9



Multi-Use Plastic Housing

* Measurements and weights stated in this Price List are approximate. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278 or 1-866-925-3222.

Accessories | Entry Systems and Security Devices

25. Two-Button Switch

Features:

- .Switch rating: 250 VAC; 10 amps
- .Indoor or outdoor use
- .Painted aluminum
- .Surface mounted
- .Actuate button is N.O. (Normally Opened)
- .Stop button is N.C. (Normally Closed)

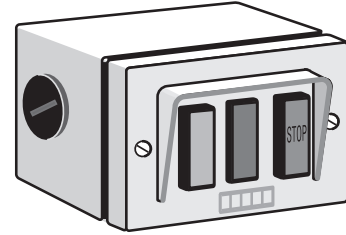
For use with A, E, and S FAAC control panel logics:

A = automatic logic: signal to open; gate closes automatically after timed pause

E = garage door-like logic: signal to open; signal to close

S1 = security logic: similar to A logic, useful in reducing tailgating

Dimensions: 4 in. wide x 2.87 in. high x 2.25 in. deep
(10.2 cm x 7.3 cm x 5.7 cm)



Two-Button Switch

SHIPPING WEIGHT	PENDING - Please call FAAC for more information
PART NUMBER	2512
PRICE:	\$99

26. Three-Button Switch

Features:

- .Switch rating: 250 VAC; 10 amps
- .Indoor or outdoor use
- .Painted aluminum
- .Surface mounted
- .Open button is N.O. (Normally Opened)
- .Close button is N.O. (Normally Opened)
- .Stop button is N.C. (Normally Closed)

For use with B, C, and P FAAC control panel logics:

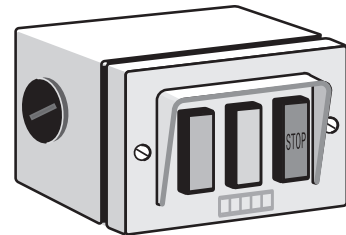
B = 3 momentary switches: open, close and stop

C = 2 continuous pressure switches: open and close;

1 momentary pressure switch: stop

P = 3 momentary switches: open, close and stop

Dimensions: 4 in. wide x 2.87 in. high x 2.25 in. deep
(10.2 cm x 7.3 cm x 5.7 cm)



Three-Button Switch

SHIPPING WEIGHT	PENDING - Please call FAAC for more information
PART NUMBER	2510
PRICE:	\$133

* Measurements and weights stated in this Price List are approximate. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278 or 1-866-925-3222.

Accessories | Entry Systems and Security Devices

New!

27. FAAC Telephone Entry - PhoneLink

Features:

- .Available in 50 & 500 code capacity
- .Programmable personal master code
- .Programmable latch code
- .Programmable "one shot" code
- .Programmable "sleep" code, disables both keypad & call button
- .2 relays
- .Adjustable volume
- .Event input
- .Night light with "60 second on" capability
- .Optional camera
- .Unique double ring cadence
- .Call waiting
- .Call button disconnect
- .By-pass switch included

Dimensions: 7.4 in. x 7.4 in. x 5 in.
(18.8 x 18.8 x 12.7 cm)



PhoneLink

Model	Shipping Weight	Part Number	Price
PhoneLink - 50 code	9 lb (4.1 kg)	2875	\$2,016

28. Select Engineering Systems Telephone Entry - Select Gate 2

Features:

- .Uses existing phone lines
- .Lighted front panel
- .Local call waiting (bi-directional)
- .Call forwarding capability
- .Dials 5 outside phone numbers
- .Four selectable ring styles
- .Programmed memory not affected by power failure
- .Optional 2nd and 3rd relays

Dimensions: 9.5 in. wide x 7 in. high x 4.33 in. deep (24 cm x 18 cm x 11 cm)

SHIPPING WEIGHT	8 lb (3.6 kg)
PART NUMBER	3070
PRICE	Call us at 800-221-8278



Select Gate

* Measurements and weights stated in this Price List are approximate. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278 or 1-866-925-3222.

Accessories | Entry Systems and Security Devices

29. FAAC AdvantageDK Keyless Entry

New!

For keyless access needs.

Features:

- .Programmable four digit codes available:
1000
- .Programmable personal master code
- .Programmable latch/unlatch code
- .Programmable "sleep" code
- ."Three strikes, you're out" - resets in 2 minutes
- .External event input
- .Two relays w/ variable output time: 1-99 seconds
- .LED indicators
- .Optional camera (intercom versions only)
- .Audible tone
- .Non-volatile memory
- .Night light
- .Limited two year warranty

Dimensions:

- .ADV-05 to ADV-1000: 5.25 in. x 4.75 in. x 4.5 in.
(14.6 x 12.1 x 11.4 cm)



ADV-1000

Model	Shipping Weight	Part Number	Price
Model ADV-1000	5 lb (2.3 kg)	2916	\$608

* Measurements and weights stated in this Price List are approximate. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278.

Accessories Entry Systems and Security Devices

FAAC Radio Controlled System

30. FAAC 1TM418DS Transmitter

Features:
 .Choice of over 1000 codes
 .12V battery included
 Dimensions: 1.5 in. x 3 in. x .63 in.
 Note: the FAAC 1TM418DS transmitter requires the FAAC 1RP418DS receiver (priced separately).

SHIPPING WEIGHT	1 lb (.5 kg)
PART NUMBER	1TM418DS
PRICE	\$45

30.



33. FAACXT4 433RC Transmitter

Features:
 .Rolling code technology - the code varies when transmitter is used
 .Analog algorithm recognizes and confirms the signal.
 .12V battery included
 .4 channels
 Visor clip included
 Dimensions: 2 in. x 2.5 in. x .1/2 in.
 Note: the FAAC XT433RC transmitter requires the FAAC RP433RC Receiver (priced separately).

SHIPPING WEIGHT	1 lb (.5 kg)
PART NUMBER	787453
PRICE	\$23



31. FAAC Dual Button Transmitter

Features: Same as Single Transmitter
 Note: The FAAC transmitter requires the FAAC IRP418DS receiver.

SHIPPING WEIGHT	1 lb (.5 kg)
PART NUMBER	787317
PRICE	\$53

31.



32. FAAC 1RP418DS Receiver

The modular FAAC 1RP418DS receiver can be connected directly to any FAAC electronic control panel.
 Features:
 .Required power supply: 24DVC
 .Eliminates the need to hard wire into the control panel.
 .Dip switches provided for code selection
 Reception range (may vary with environmental conditions.)
 With built-in antenna wire:
 up to 100 ft (30 m)
 With tuned aerial antenna kit:
 up to 300 ft (91 m)
 Dimensions: 2 in. x 2 in.



34. FAAC RP433RC Receiver

The modular FAAC RP433RC receiver can be connected directly to any FAAC electronic control panel.
 Features:
 .Required power supply: 24DVC
 .Eliminates the need to hard wire into the control panel.
 Rolling code technology

SHIPPING WEIGHT	1 lb (.5 kg)
PART NUMBER	787741
PRICE	\$42

35. FAAC RP Interface Board

(to use FAAC receiver with non-FAAC product)

SHIPPING WEIGHT	1 lb (.5 kg)
PART NUMBER	787725
PRICE	\$64



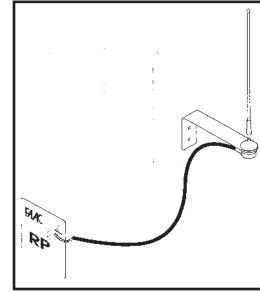
SHIPPING WEIGHT	1 lb (.5 kg)
PART NUMBER	1RP418DS
PRICE	\$79

Accessories | Entry Systems and Security Devices

36. FAAC Tuned Antenna Kit The standard kit includes:

- 16 ft (5 m) of coax cable
- 10.5 in. (26.7 cm) whip antenna
- Gate mount bracket

SHIPPING WEIGHT	2 lb (1 kg)
PART NUMBER	412003
PRICE:	\$88



FAAC Tuned Antenna Kit

Loops and Loop Detectors

37. FAAC Model DSP-15 Vehicle Detector

The DSP-15 has been specifically designed to handle all parking, drive-through and access control applications on virtually any size loop.

.Required power supply: 24 VDC

.Dimensions of board: 4 in. wide x .87 in. high x

2.75 in. deep (10.2 cm x 2.2 cm x 7 cm)

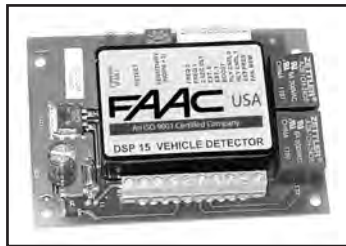
1. Selectable signaling provided by 2 relays:

- Relay A provides main detection output which can be modified by delay and extension
- Relay B is switch selectable to one of four options:
 - 1) True presence (no extension or delay)
 - 2) Pulse on vehicle entering loop
 - 3) Pulse on vehicle exiting loop
 - 4) Loop fail output

Frequency: automatically tunes within one of four operating ranges

Sensitivity:

.10 sensitivity settings can be used in special applications



to insure complete detection of high-bed vehicles

Connector: ten position terminal block (no harness required)

Indicators: separate power/fail and detect LED's

Loop size: works on any in-ground inductive loop from 20 to 1000uH

Hold time: normal or extended hold

time is selectable

Loop failure: if the loop fails, opens or shorts, the power indicator flashes. Output B can also indicate this position if desired. The option to "remember" an intermittent loop failure is also provided.

Delay: can be selected to ignore fast moving vehicles over the loop

Extension: extends a call for slow moving vehicles

SHIPPING WEIGHT	2 lb (1 kg)
PART NUMBER	2664
PRICE	\$233

38. DSP-7LP Vehicle Detector

The DSP-7LP will operate on any voltage from 10 to 30 Volts AC or DC and draws approx. 1 milliampere while waiting for a car. The power LED winks continuously once per second to indicate that the detector is operating in the low power mode.

The detector's small size and lack of any switches or dials makes the DSP-7LP the industry's first solar friendly "Plug-and-Play" vehicle detector. The DSP-7LP is preset to the normal sensitivity level used in parking/access control applications, and tunes itself to the best operating efficiency.

Feature include:

- Loop Size – any in-ground inductive loop from 20 to 1200 nH
- Sensitivity – automatic. it compensates for large loops and large lead-ins
- Output Ratings – single output, 1 amp relay at 30 VDC resistive
- Loop Failure – green power indicator flashes twice per sec-

ond if loop circuit is open and 10 times per second if loop circuit is shorted. it operates in the fail-safe mode and will output a "Detect" for either of these loop failure conditions.

- Size – 1.52 in.H x 2.9 in. W x 1.56 in. D

- Connector – removable 7-pin terminal block. Pin assignments are:

- 1 – Relay (NC) (opens for detect)
- 2 – Relay Common
- 3 – Relay (NO (closes for detect)
- 4 – Power common
- 5 – Power in
- 6 – Loop
- 7 – Loop

- Operating Temperature – -35° to 165°F (-37°C to 74°C)

SHIPPING WEIGHT	1 lb (.5 kg)
PART NUMBER	2659
PRICE	\$233

Loops and Loop Detectors

39. DSP-11 Vehicle Detector

The DSP-11 is a switch-less vehicle detector with industry standard 11-pin base. These new detectors have been designed to handle parking, drive-thru and access control applications.



Model types: DSP-11-LV: low voltage version,

10-30 volts AC or DC

Dimensions: 1.4 in. wide x 1.4 in. high x 2.75 in. deep

(3.56 cm x 3.56 cm x 7 cm)

Loop Size: works on any in-ground inductive loop from 20 to over 1500 nH

Indicators: separate power/fail and detect LED's

Detect Memory: power interruptions of short duration are ignored. If power fails for approx.

1.5 sec. or less the detector "remembers" a vehicle.

Sensitivity: automatic – compensates for large loops and long lead-ins.

Loop Failure: green power indicator flashes slowly if the loop circuit is open and quickly if loop circuit is shorted. The detector will output a "detect" for either of these loop failed conditions.

Fail Safe Operation: All DSP detectors are designed to be Fail Safe in their operation. It will output a "detect" (contact closure) for a "failed" loop condition OR a loss of power to the detector.

Output Relay: 1A at 125 VAC general use, 1A at 30 VDC resistive. Both N.O. (closes for detect) and N.C. (opens for detect) outputs.

SHIPPING WEIGHT	1 lb (.5 kg)
PART NUMBER	2665
PRICE	\$139

40. DSP-10 Vehicle Detector

The DSP-10 has been specifically designed to handle all parking, drive-thru and access control applications. Can be used as either a safety loop or free exit loop detector. With flexibility of "fail-safe" or fail-secure," it is the only parking detector you will ever need.



Model types: DSP-10-LV: low voltage version, 10-30 volts AC or DC

Enclosure: impact resistant, high temperature plastic, 1.75 in. wide x 2.375 in. high x 3.61 in. deep

(45 mm x 60 mm x 92 mm)

Loop Size: works on any in-ground inductive loop from 20 to 1000 nH.

Sensitivity: 10 settings

Frequency: automatically tunes within one of four operating ranges

Outputs: Two separate relay outputs that are front panel programmable:

Output A – main detection output. Can be modified by delay and extension. Factory set to fail-safe.

Output B – can be set to one of the following:

- 1) true presence (no extension or delay)
- 2) pulse on vehicle entering loop
- 3) pulse on vehicle exiting loop
- 4) loop fail output

Sensitivity Boost: can be used in special applications to insure complete detection of high-bed vehicles.

Loop Failure: if loop fails (opens or shorts) power indicator flashes. Option to "remember" an intermittent loop failure also available.

Delay: can be selected to ignore fast moving vehicles over the loop.

Extension: extends a call for slow moving vehicles.

SHIPPING WEIGHT	1 lb (.5 kg)
PART NUMBER	2667
PRICE	\$152

* Measurements and weights stated in this Price List are approximate. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278.

Loops and Loop Detectors

Note: A rule of thumb for determining the height of a loop's inductive field is: the height of the inductive field is 2/3 the length of the loop's shortest side.

Saw-Cut Loops

41. Saw Cut Loops with 30 ft (9.1 m) Twisted Pair Lead-in 18 gauge, XLP insulation

Loop Size	Shipping Weight	Part Number	Price
2 ft x 6 ft (0.6 m x 1.8 m)	4 lb (1.8 kg)	2590	\$143
4 ft x 6 ft (1.2 m x 1.8 m)	4 lb (1.8 kg)	2591	\$183
4 ft x 8 ft (1.2 m x 2.4 m)	4 lb (1.8 kg)	2567	\$203
4 ft x 10 ft (1.2 m x 3.0 m)	4 lb (1.8 kg)	2592	\$222
6 ft x 12 ft (1.8 m x 3.7 m)	4 lb (1.8 kg)	2569	\$261



Saw Cut Loop

Note: Other loop sizes, lead-in lengths, 14 Gauge Wire, and PVC Insulation are available on request.

42. Saw Cut Loops with 50 ft (15 m) Twisted Pair Lead-in 18 gauge, XLP insulation

Loop Size	Shipping Weight	Part Number	Price
4 ft x 6 ft (1.2 m x 1.8 m)	5 lb (2.3 kg)	2562	\$206
4 ft x 8 ft (1.2 m x 2.4 m)	5 lb (2.3 kg)	2566	\$226



Saw Cut Loop

Note: Other loop sizes, lead-in lengths, 14 Gauge Wire, and PVC Insulation are available on request.

* Measurements and weights stated in this Price List are approximate. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278.

Loops and Loop Detectors

43. Loop Sealant for Saw Cut Loops 30 fl. oz. (0.9 L) caulking cartridge

Note: the thickness of the loop wire in the preceding #43 and #44 is .13 in. (0.32 cm).
The wire's height ranges from .55 in. (1.4 cm) to .34 in. (0.86 cm).

Linear Feet of Coverage for One Cartridge					Linear Meters of Coverage for One Cartridge				
Saw Cut Depth in Inches	Saw Cut Width in Inches				Saw Cut Depth in cm	Saw Cut Width in cm			
	.13	.2	.25	.5		0.3	0.5	0.6	1.3
1	36 ft	24 ft	18 ft	9 ft	2.5	11 m	7.3 m	5.5 m	2.7 m
1.5	24 ft	18 ft	12 ft	6 ft	3.8	7.3 m	5.5 m	3.7 m	1.8 m
2	18 ft	12 ft	9 ft	4.5 ft	5.1	5.5 m	3.7 m	2.7 m	1.4 m

Quantity	Shipping Weight	Part Number	Price
Grey Sealant	3 lb (1.4 kg)	2166	\$96
Black Sealant	3 lb (1.4 kg)	2180	\$96

Pave-Over Loops

44. .5 in. (1.24 cm) Flexible Conduit Pave-Over Style Loops with 30 ft (9.1 m) Twisted Pair Lead-in

Loop Size	Shipping Weight	Part Number	Price
2 ft x 6 ft (0.6 m x 1.8 m)	4 lb (1.8 kg)	2593	\$200
4 ft x 6 ft (1.2 m x 1.8 m)	4 lb (1.8 kg)	2594	\$220
4 ft x 8 ft (1.2 m x 2.4 m)	4 lb (1.8 kg)	2595	\$232
4 ft x 10 ft (1.2 m x 3.0 m)	4 lb (1.8 kg)	2596	\$246
6 ft x 12 ft (1.8 m x 3.7 m)	4 lb (1.8 kg)	2597	\$282



Pave-Over Loop

Note: Other loop sizes and lead-in lengths are available on request.

* Measurements and weights stated in this Price List are approximate. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278.

Loops and Loop Detectors

45. .5 in. (1.24 cm) Flexible Conduit Pave-Over Style Loops with 50 ft (15 m) Twisted Pair Lead-in

Size	Shipping Weight	Part Number	Price
2 ft x 6 ft (0.6 m x 1.8 m)	5 lb (2.3 kg)	2561	\$220
4 ft x 6 ft (1.2 m x 1.8 m)	5 lb (2.3 kg)	2560	\$242
4 ft x 8 ft (1.2 m x 2.4 m)	5 lb (2.3 kg)	2559	\$252
4 ft x 10 ft (1.2 m x 3.0 m)	5 lb (2.3 kg)	2558	\$268
6 ft x 12 ft (1.8 m x 3.7 m)	5 lb (2.3 kg)	2557	\$303

46. .5 in. (1.24 cm) Flexible Conduit for Lead-in Protection

Size	Shipping Weight	Part Number	Price
50 ft	5 lb (2.3 kg)	2603	Call for Pricing

* Measurements and weights stated in this Price List are approximate. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278.

Locks

47. FAAC Single Cylinder Electric Lock

Features:

- .Required power supply: 12 VAC pulsed (available on FAAC control panels.)
- .Manual keyed operation from one side of the gate
- .3 keys provided
- .Strike plate included

SHIPPING WEIGHT	6 lb (2.7 kg)
PART NUMBER	712650/712651+
PRICE	\$229



Single Cylinder Electric Lock
(strike plate not pictured)

48. FAAC Double Cylinder Electric Lock

Features:

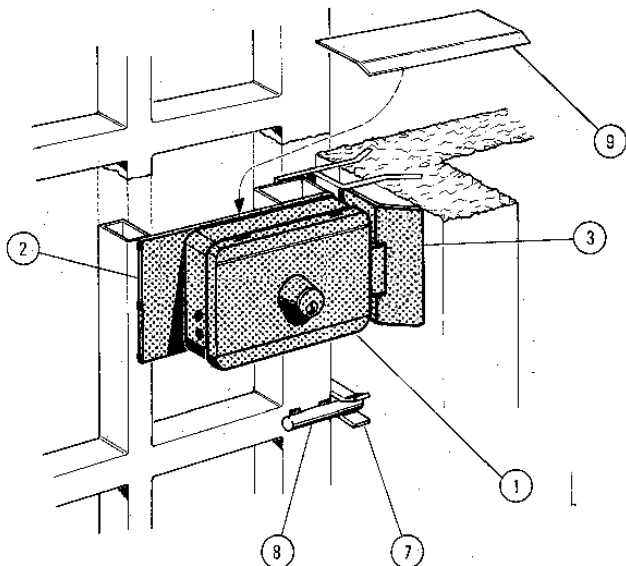
- .Required power supply: 12 VAC pulsed (available on FAAC control panels.)
- .Manual keyed operation from both sides of the gate
- .6 keys provided
- .Strike plate included

SHIPPING WEIGHT	6 lb (2.7 kg)
PART NUMBER	712650/712652+
PRICE	\$255

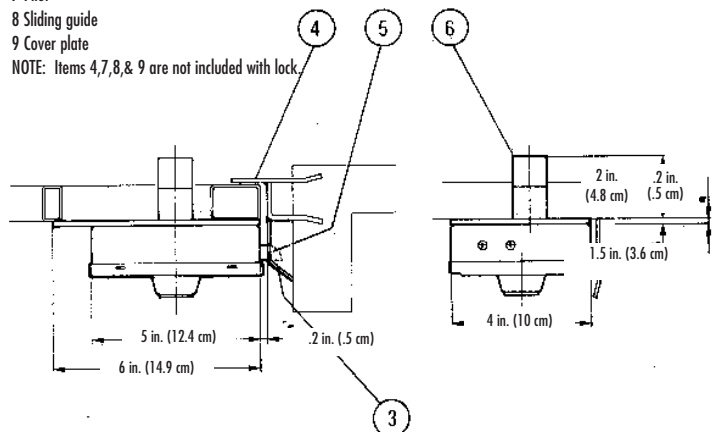


Double Cylinder Electric Lock
(strike plate not pictured)

Side assembly of electric lock for 1-leaf gate



- 1 Electric lock
 - 2 Base plate
 - 3 Strike plate
 - 4 Side rabbet ledge
 - 5 Spring latch
 - 6 Through cylinder and barrel (double cylinder electric lock only)
 - 7 Pilot
 - 8 Sliding guide
 - 9 Cover plate
- NOTE: Items 4, 7, 8, & 9 are not included with lock.



* Measurements and weights stated in this Price List are approximate. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278 or 1-866-925-3222.

Accessories | Entry Systems and Security Devices

Locks

49. Securitron Model M62-GF Electromagnetic Lock

Features:

- .Required power supply: 24 VDC (available on FAAC control panels.)
- .Holding force: 1200 lb (540 kg)
- .Conduit connector: Universal .5 in. ID (female)
- .75 in. OD (male)
- .Four mounting holes on the face of the lock
- .Strike plate
- .Attachment hardware

Dimensions:

8 in. wide x 1.75 in. deep x 2.9 in. high
(20.3 cm x 4.4 cm x 7.4 cm)

The Securitron Model M62-GF Electromagnetic Lock requires the following additional equipment (priced separately) when used with a FAAC control panel:
12 VAC External Relay (See #50 below)



Model M62-GF
Electromagnetic Lock
(strike plate not pictured)

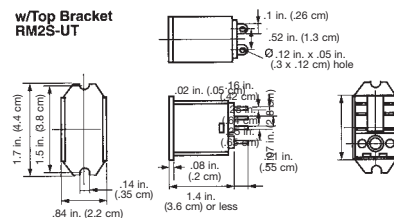
SHIPPING WEIGHT	14 lb (6.4 kg)
PART NUMBER	2353
PRICE	\$860

Z BRACKET	
PART NUMBER	2690
PRICE	\$220

50. 12 VAC External Relay

Use with MAG lock

SHIPPING WEIGHT	1 lb (.5 kg)
PART NUMBER	2630
PRICE	\$61



12 VAC External Relay

* Measurements and weights stated in this Price List are approximate. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278 or 1-866-925-3222.

Accessories | Entry Systems and Security Devices

51. Securitron Model M32F-24

Electromagnetic Lock

Features:

- Required power supply: 24 VDC (available on FAAC control panels.)
- Holding force: 600 lb (270 kg)
- Two mounting holes on the face of the lock
- Strike plate
- Attachment hardware

Dimensions:

8 in. wide x 1.5 in. deep x 1.88 in. high
(20.3 cm x 3.8 cm x 4.8 cm)

The Securitron Model M32F Electromagnetic Lock requires the following additional equipment (priced separately) when used with a FAAC control panel:

12 VAC External Relay (See #50 on P. 135)

SHIPPING WEIGHT	12 lb (5.4 kg)
PART NUMBER	2354
PRICE	\$619

Z BRACKET	
PART NUMBER	3150
PRICE	\$211



Model 32F
Electromagnetic Lock
(strike plate not pictured)

Warning Lights

52. FAACLamp

Connects to FAAC 115 VAC or 230 VAC control panels; please specify voltage when ordering.

Amber light flashes while gate opens and closes

Dimensions: 4 in. x 4.5 in. (5.5 in. including base) x 5 in.
(10 cm x 11.5 cm [14.2 cm] x 13 cm)

SHIPPING WEIGHT	1.1 lb (.5 kg)
PART NUMBER	410013 (230 VAC)
PART NUMBER	410013+ (115 VAC)
PRICE	\$76

REPLACEMENT BULB	2128 (230 VAC)
	2132 (115 VAC)
PRICE	\$19



FAACLamp

* Measurements and weights stated in this Price List are approximate. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278 or 1-866-925-3222.

Timers

53. Grasslin Digi 20-A-24 24hr 7 day Time Switch

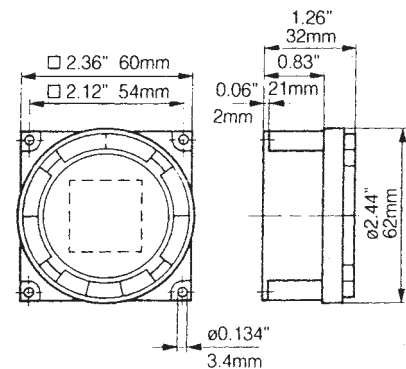
Features:

- Required power supply: 24 VAC or 24 VDC (available on FAAC control panels)
- Output relay rating: 277 VAC, 16A
- Output relay: Single Pole Double Throw
- Signals up to 20 times per timing period
- Maximum timing period: 1 week
- Minimum time between signals: 1 minute
- Daylight time change over: Manual
- Manual override



Grasslin Digi 20-A-24 Time Switch

SHIPPING WEIGHT	2 lb (1 kg)
PART NUMBER	2144
PRICE	\$352



54. Transformer/Step-up

- 120 VAC > 240 VAC
- 500 VA
- Enclosure 3R outdoor
- UL/CSA Listed

Dimensions will not exceed:

4.5 in. wide x 9.5 in. high x 4 in. deep

Note: Position of mounting tabs on case may vary

SHIPPING WEIGHT	17 lb (7.7 kg)
PART NUMBER	2199
PRICE	\$530



Transformer

* Measurements and weights stated in this Price List are approximate. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278 or 1-866-925-3222.

Ditek Surge Protection

Ditek surge protectors detect potentially harmful surges in electrical current and re-direct these surges to ground.

55. Hard Wired Protection for 110/125 VAC circuits

- Self-restoring after each surge within ratings
- .5 in. conduit connector provided

Dimensions: 3 in. wide x 1.9 in. high x 1.5 in. deep
(7.6 cm x 4.8 cm x 3.8 cm)

SHIPPING WEIGHT	2 lb (1 kg)
PART NUMBER	2355
PRICE	\$158



Ditek Surge Protector for 110/125/220 VAC circuits (115 version shown; 220 version has similar configuration, but larger dimensions)

56. Hard Wired Protection for 220 VAC Single Phase Circuits

- Self-restoring after each surge within ratings
- .5 in. conduit connector provided

Dimensions: 4 in. wide x 2 in. high x 2 in. deep
(10.2 cm x 5.1 cm x 5.1 cm)

SHIPPING WEIGHT	2 lb (1 kg)
PART NUMBER	2356
PRICE	\$162

57. Screw Terminal Connection Protection for Low Voltage Power Loop, Voice, and Data Circuits

- Provides protection for power, data, LED and audible circuits
- One model protects 5V, 12V and 24V circuits
- Self-restoring after each surge within ratings

Dimensions: 3 in. wide x 1.6 in. high x 1.6 in. deep
(7.6 cm x 4 cm x 4 cm)

SHIPPING WEIGHT	2 lb (1 kg)
PART NUMBER	2357
PRICE	\$204



Ditek Surge Protector for Low-Voltage Circuits

* Measurements and weights stated in this Price List are approximate. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278 or 1-866-925-3222.

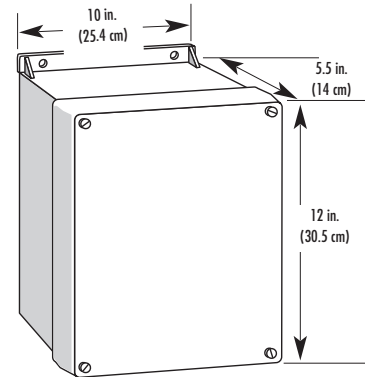
Enclosures

58. Model FRP (Fiber Reinforced Plastic) Enclosure

The Model FRP is ideal for applications that require an enclosure that is extremely tough.

- Strong, highest quality construction
- Rubberized gasket door seal
- Includes metal mounting plate with grounding lug
- UL and CSA Listed

SHIPPING WEIGHT	6 lb (2.7 kg)
PART NUMBER	2359
PRICE	\$252

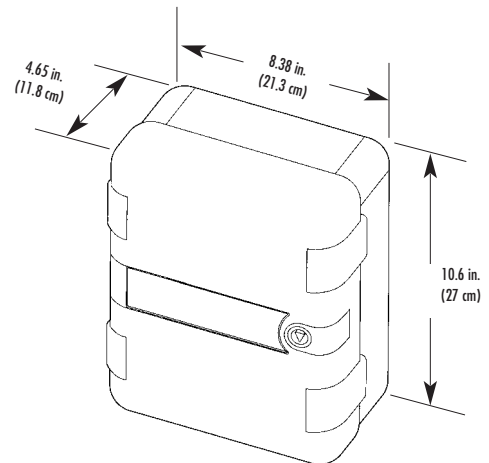


Model FRP enclosure

59. Model L (Latching) Plastic Enclosure

- Keyed latch on hinged door
- Rubberized gasket door seal
- Door can open to right or left
- Will accept DIN rail
- Molded standoffs for control panel mounting
- Three 1.13 in. (30 mm) pre-drilled holes (with plugs) in box bottom

SHIPPING WEIGHT	5 lb (2.3 kg)
PART NUMBER	720118
PRICE	\$75



Plastic enclosure with lockable hinged cover

* Measurements and weights stated in this Price List are approximate. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278 or 1-866-925-3222.

Enclosures

60. 14 in. x 16 in. x 6 in. Fiber Reinforced Enclosure

- Hinged lockable
- Strong, highest quality construction
- Rubberized gasket door seal
- Weather resistant
- UL and CSA Listed

W/backplate wired 115V

SHIPPING WEIGHT	16 lb (7.3 kg)
PART NUMBER	3300
PRICE	\$557

W/backplate wired 230V

SHIPPING WEIGHT	16 lb (7.3 kg)
PART NUMBER	3303
PRICE	\$557

W/backplate wired 24 VDC

SHIPPING WEIGHT	16 lb (7.3 kg)
PART NUMBER	3350
PRICE	\$580



Large Fiberglass Enclosure, opened and locked

Pre-wired for free exit and safety pin plug in detector.
(Detector no included)

61. Metal Enclosure 16 in. x 20 in.

- Hinged lockable
- Strong, highest quality construction
- Rubberized gasket door seal
- Weather resistant
- UL and CSA Listed

W/backplate wired 115V

SHIPPING WEIGHT	35 lb (16 kg)
PART NUMBER	2605
PRICE	\$839

W/backplate wired 230V

SHIPPING WEIGHT	35 lb (16 kg)
PART NUMBER	2479
PRICE	\$839

* Measurements and weights stated in this Price List are approximate. For exact specifications, please refer to the Installation Manual or contact our technical department at 1-800-221-8278 or 1-866-925-3222.

Exploded Views

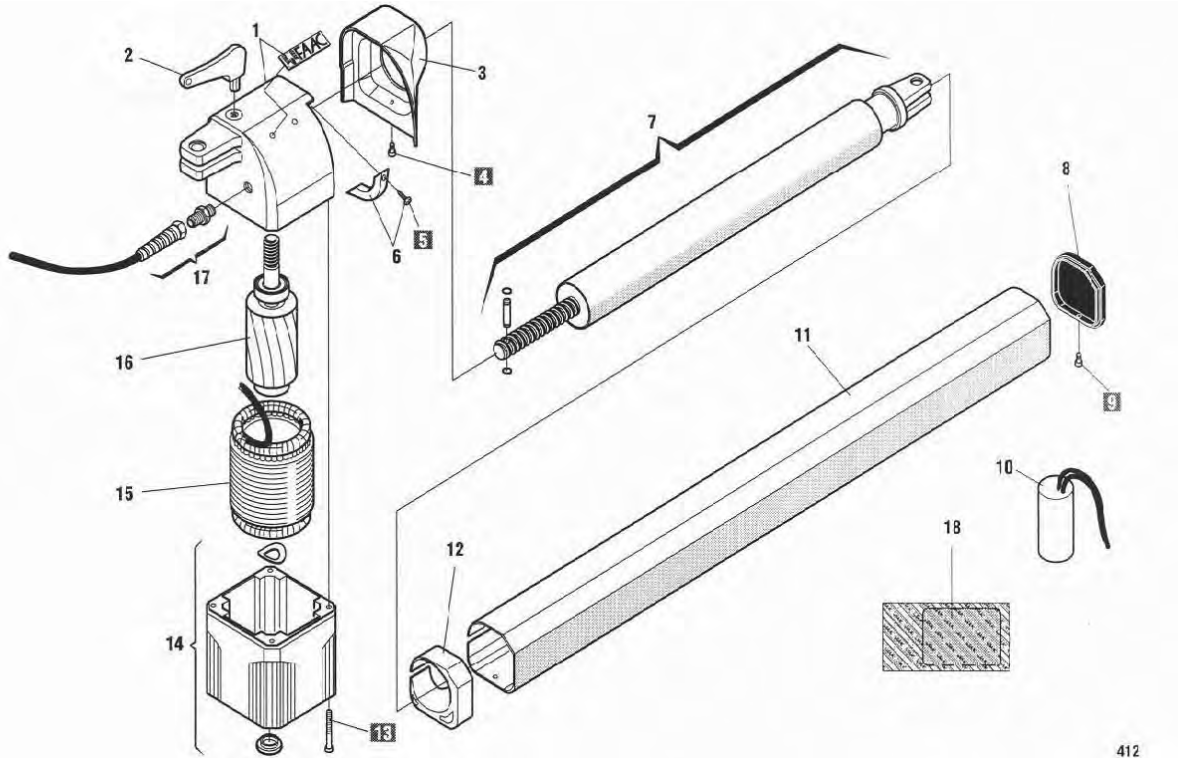
The logo for FAAC, featuring the letters 'FAAC' in a bold, black, sans-serif font. The 'F' and 'A' are connected, and the 'A' has a distinctive shape with a diagonal slash through it.

FAAC

Exploded Views & Pricing

Model 412	143
Model S418	144
Model 415	145
Model S450H	146-149
Model 400	150-153
Model 402	154-155
Model 422	156-157
Model S800H	158-159
Model 750	160-162
Model 760	163-166
FSW 900	167-168
FSL 700	169-170

Exploded View, Model 412

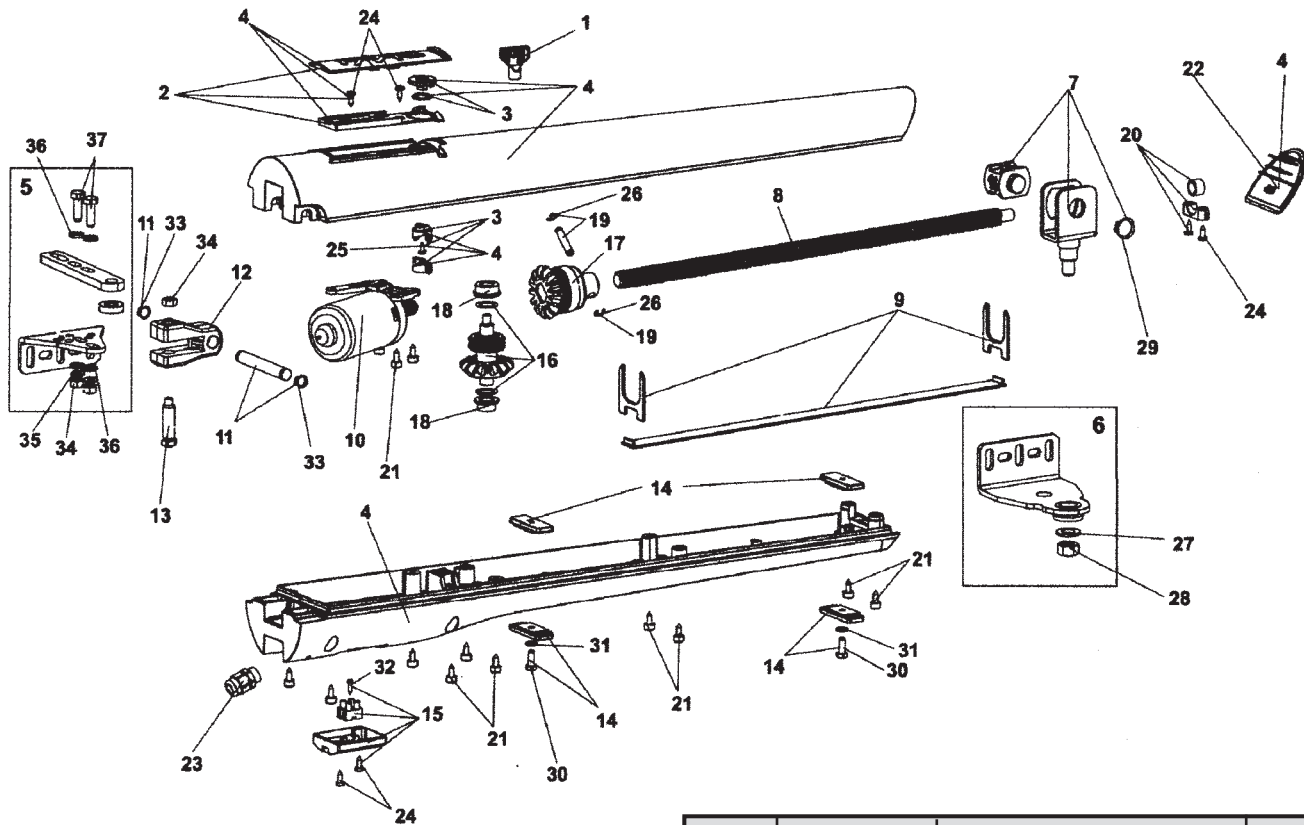


412

POS	PART NO	DESCRIPTION	QTY	LIST PRICE
1	799360	Motor Housing, SX Top Section	1	176.00
1	799359	Motor Housing, DX Top Section	1	176.00
2	713009	Manual Release Key, 412	1	9.00
3	7171345	Flange, Protective Cover, 412 SX	1	18.00
3	7171335	Flange, Protective Cover, 412 DX	1	18.00
4	N/A	Nickel Plated Self Tapping Screw (3.5 x 13mm)	1	N/A
5	N/A	Self-Tapping Screw (5.5 x 15mm)	2	N/A
6	799358	Cylinder Collar	1	22.00
7	736060	Cylinder Assembly New	1	196.00
8	727148	End Cap, Protective Cover SX	1	7.00
8	727147	End Cap, Protective Cover DX	1	7.00
9	N/A	Nickel Plated Self-Tapping Screw (3.5 x 9.5mm)	3	N/A

POS	PART NO	DESCRIPTION	QTY	LIST PRICE
10	2705	Capacitor for 115V (25uf)	1	12.00
10	2707	Capacitor for 220V (8uf)	1	9.00
11	7272795	Protective Cover, 412 New	1	82.00
12	722298	Protective Cover Support, 412	1	20.00
13	N/A	Self Tapping Screw (5 x 18mm)	4	N/A
14	716056	Motor Housing, Bottom Section	1	47.00
15	746030	Stator (Motor) for 220V	1	114.00
15	746755	Stator (Motor) for 115V	1	132.00
16	746028	Rotor (Motor)	1	82.00
17	N/A	Strain Relief, 412	1	N/A
18	390009	Skin Pack, 412 (1 pack = 2 operators)	1	134.00

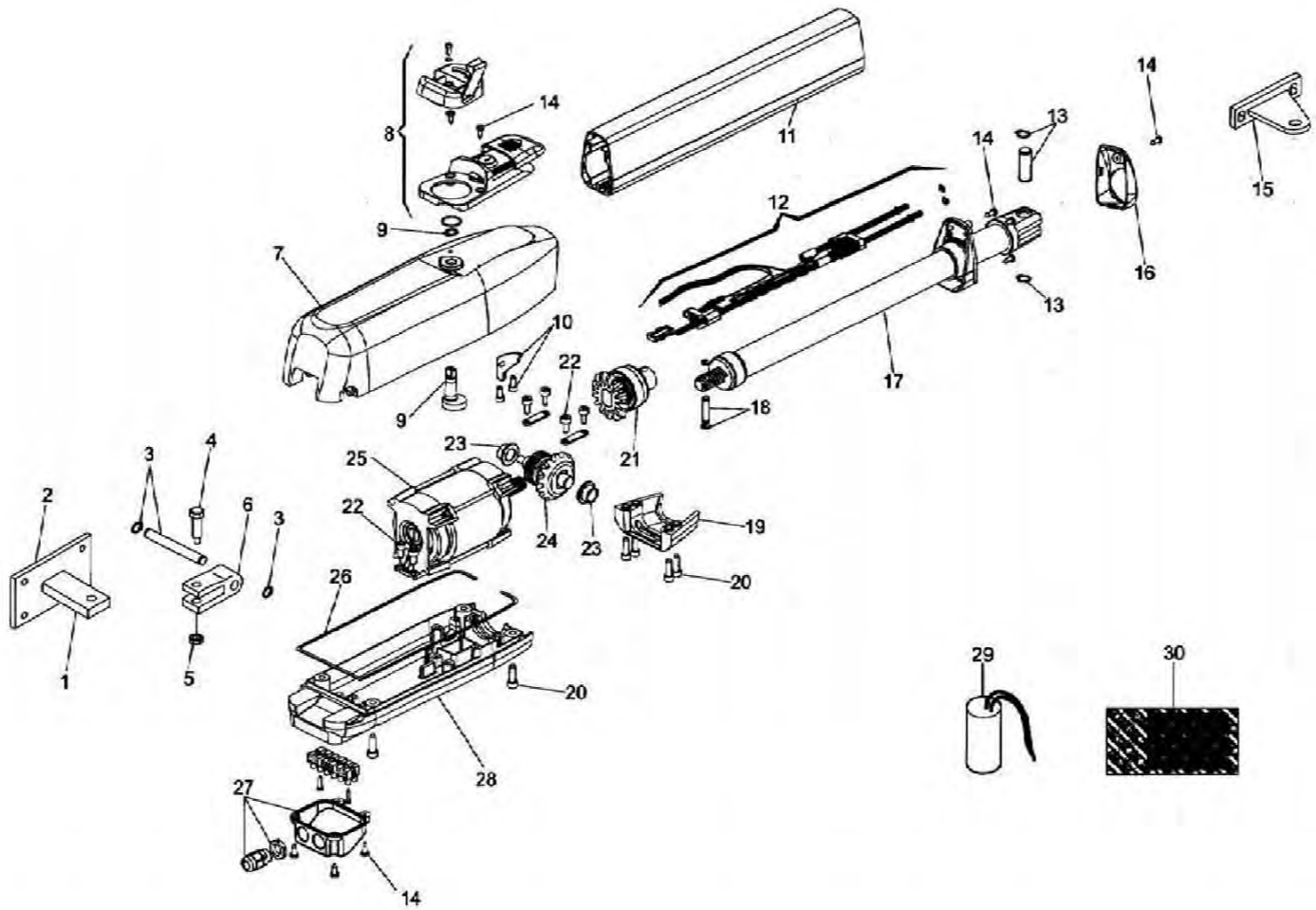
Exploded View, Model S418 Parts



Part	Part Number	Description	List Price
01	713002	Release Key	\$5
02	63001555	Release Cover	\$21
03	63001565	Release Assembly	\$16
04	63001575	Operator Body	
05	63001585	Rear Adjustable Bracket	\$37
06	63001515	Front Bracket	\$39
07	63001595	Lead Nut	\$68
08	63001525	Screw	\$75
09	63001605	Screw Cover	\$16
10	63001615	Motor	\$179
11	718366	Long Pin	\$18
12	7228015	Rear Fork	\$39
13	7182075	Short PIN	\$14
14	63001625	Mechanical Stop	\$32
15	63001635	Harness Cover	\$18
16	60202215	Tensioning Set	\$96
17	60202225	Exit Shaft	\$75
18	60202165	Bush	\$18

Part	Part Number	Description	List Price
19	718367	PIN W/Seeger	\$3
20	60202355	Bush for Fixing Worm Gear	
21	63001545	10 Screws ø4.8x13 S418	
22	63001535	Front Cap	\$14
23	NOTA05	Gland	
24	701459	Aut. 3.5x13 6954	
25	701405	Screw Aut. 3.5x9.5 6954 AB N	
26	704049	Seeger E 6 7434 INOX	
27	XR0000120025Z	Washer 13x2.5 UNI 6592	
28	702102	NUT ES. 12 5588 6S Z	
29	70429	Seeger E 18 UNI 7435	
30	701110002	TE 6X 16 5739 8G Z G	
31	703103	Grower Washer 6 1751 Z	
32	701418	AUT. 2.9X 13 6954 AB	
33	704002	Circlip E 10 7435	
34	702106	NUT ES. 8 5588 6S Z	
35	703104	Grower washer 8 1751 Z	
36	XR000080016Z	Washer 8.4x1.6 UNI6592	
37	701122002	TE 8x 25 5739 8G Z	

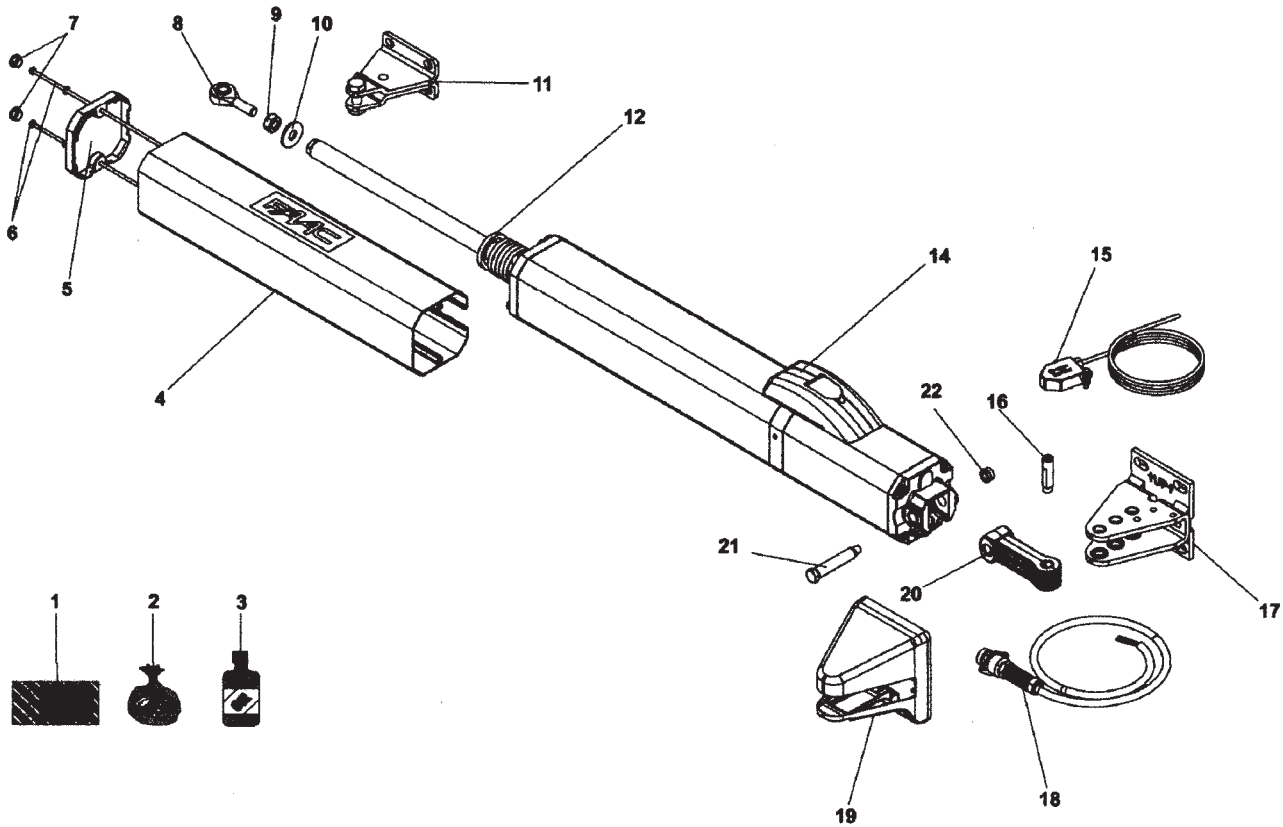
BLOW-UP VIEW, MODEL 415



POS	PART NO	DESCRIPTION	QTY	LIST PRICE
1	7220015	Rear Mounting Bracket	1	36.00
2	7284005	Rear Mounting Plate	1	20.00
3	718366	Long Pin With C Clips	1	18.00
4	7182075	Short Pin	1	14.00
5	N/A	Hex Nut	1	N/A
6	7228015	Rear Fork	1	39.00
7	716148	Rear Upper Body	1	71.00
8	428403	Manual Release Assembly	1	70.00
9	60202145	Snap Ring	1	46.00
9	N/A	Nickel Plated Self Tapping Screw	1	N/A
10	60202155	Manual Release Lever	1	18.00
11	716150	Limit Switch Protective Cover	1	77.00
12	490108	Limit Switch Assembly	1	109.00
13	718354	Front Mounting Pin w/ C Clips	1	7.00
14	N/A	Self Tapping Screws (4.2mm x 13mm)	7	N/A
15	728271	Front Mounting Bracket	1	44.00

POS	PART NO	DESCRIPTION	QTY	LIST PRICE
16	711027	Limit Switch Adjusters Cover	1	18.00
17	490104	Cylinder	1	129.00
18	718367	Screw Drive Pin and C Clips	1	3.00
19	499399	Lower Front Cover	1	24.00
20	N/A	Self Tapping Screw (6.3mm x 19mm)	8	N/A
21	60202225	Gear (Piston)	1	75.00
22	N/A	Self Tapping Screw (4.8mm x 13mm)	10	N/A
23	60202165	Bushing	2	18.00
24	60202215	Gear (Motor)	1	96.00
25	770890	Motor 115 VAC	1	226.00
26	709324	Gasket	1	18.00
27	60202175	Electric Cable Cover	1	32.00
28	716149	Rear Body Lower Half	1	73.00
29	2705	25uf Capacitor	1	12.00
30	490106	Skin Pack 415 L LS	1	71 .00

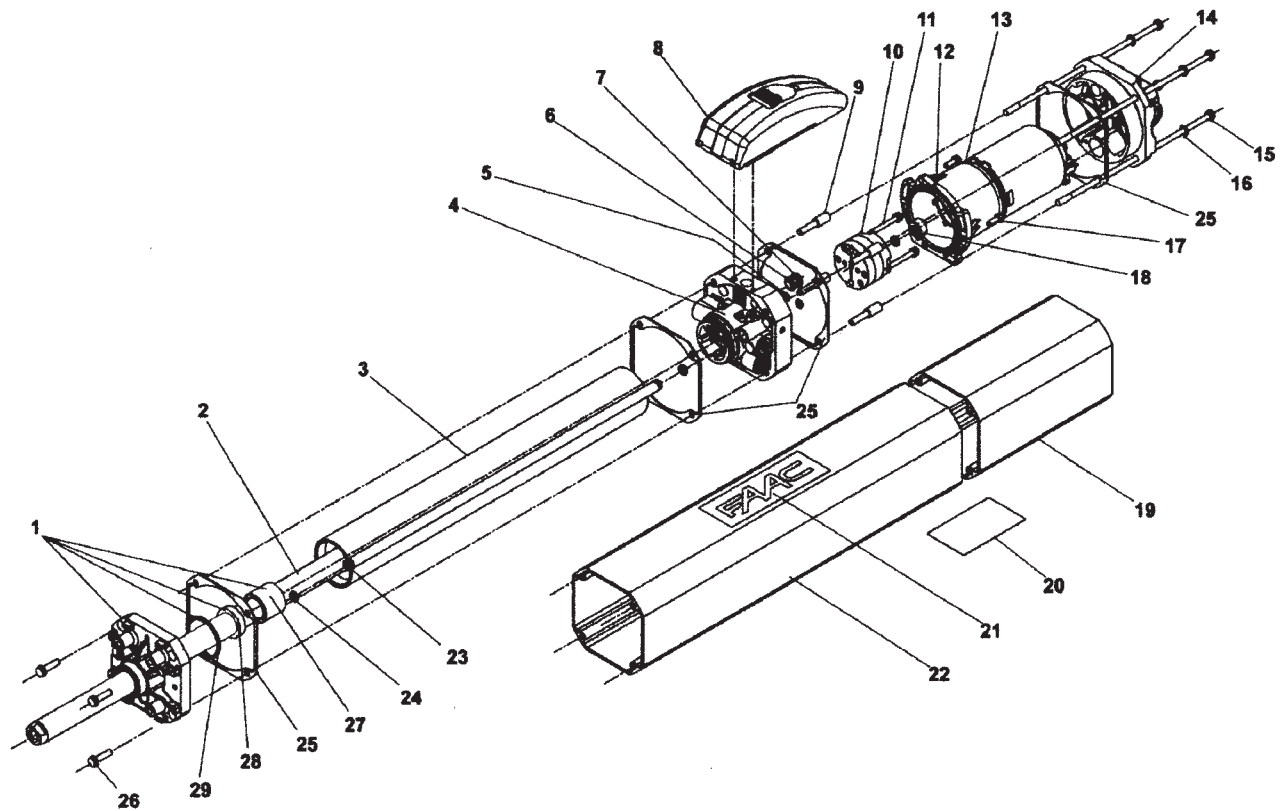
Exploded View S450H Hydraulic Operator Diagram 1



Part	Part Number	Description	List Price
01	63001885	S450H Skinpack	\$117
02	63000606	Seal Kit S450H	\$66
03	714017	Hydraulic Oil FAAC HP Oil LI.1	
04	63001895	S450H Carter with FAAC Label	\$89
05	4170015	Carter 400/87	\$16
06	63001905	Screw for Carter S450H	\$12
07	7119405	Cap for Holes Cover Carter	\$3
08	7073035	M10 Joint	
09	702101	Hex. Nut 10 5588 5S Z	
10	703027	Washer 10 6593 Cat. C R40 Z	
11	63001945	S450H Front Fastening	\$39

Part	Part Number	Description	List Price
12	63001975	Spacers Kit for S450H	\$25
14	63001985	Release Assy S450H Encoder	\$79
15	63001875	S450H Encoder	\$178
16	63001965	S450H Short Pin	\$33
17	63001915	Rear Bracket for S450H	\$87
18	63001935	S450H Molded Cable Kit	\$57
19	63001925	S450H Bracket Covering	\$27
20	63001955	Rear Eye Tie Rod for S450H	\$11
21	7182175	Long Pin	\$11
22	702302	Nut Aut. 8 7474 5S Z	

Exploded View S450H Hydraulic Operator Diagram 2



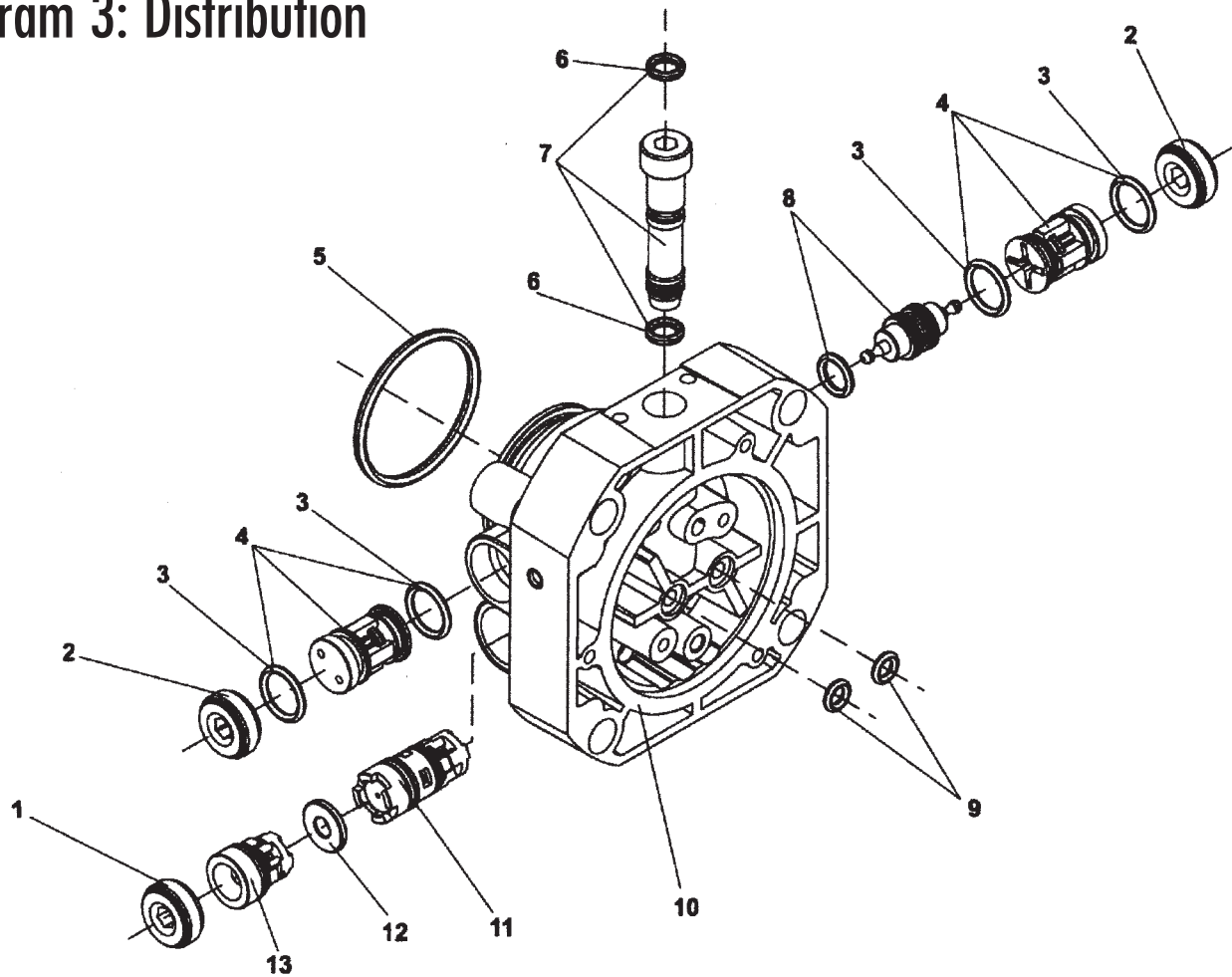
Part	Part Number	Description	List Price
01	63000716	S450H Front Flange	\$70
02	63000656	S450H Riveted Piston	\$103
03	63000646	Cylinder Piston S450H	\$68
04	63000676	S450H CB Gear Flange	\$204
05	7090010015	Seal or 4.48x1 78 (2018)	\$3
06	63000756	S450H Plug Seal	
07	63000766	Din 908 M8x1 Plug	
08	63001985	Release Assy S450H	\$79
09	63000746	S450H Tank Screw	\$9
10	63000696	10010 S09-169 1.5 L/Min (S450) Pump	\$157
11	701996	TC M4X30 TORX T20 INOX DE 7	
12	63000626	S450H Motor Cover Kit	\$35
13	63000636	S450H Motor Cover Assembly	\$35
14	63000806	S450H Rear Flange	\$52
15	63000786	S450H Tie Rod	\$10

Part	Part Number	Description	List Price
16	703121	Washer Grower M5 A2 UNI 1751 (INOX)	
17	701985	TC M4X12 TORX T20 INOX DE7	
18	63000706	S450H Splined Joint	\$31
19	63000776	S450H Motor carter	\$68
20	903122	Label	N/A
21	63001865	FAAC Sticker for S450H	
22	63000736	S450H Tank	
23	63000726	Retract Tube S450H	\$28
24	7090815	O-Ring Retract Tube	\$4
25	6300013	S450H Gasket D80 Spare Part	\$4
26	701829	Screw TC Torx M5x20 INOX With Grower	
27	708009	Bushing 20x28x24.5 20E7	
28	63000315	EU 2028/SP-Z20 Seal	
29	7090350025	Gasket OR 34.60x2.62	\$4

Exploded View

S450H Hydraulic Operator

Diagram 3: Distribution



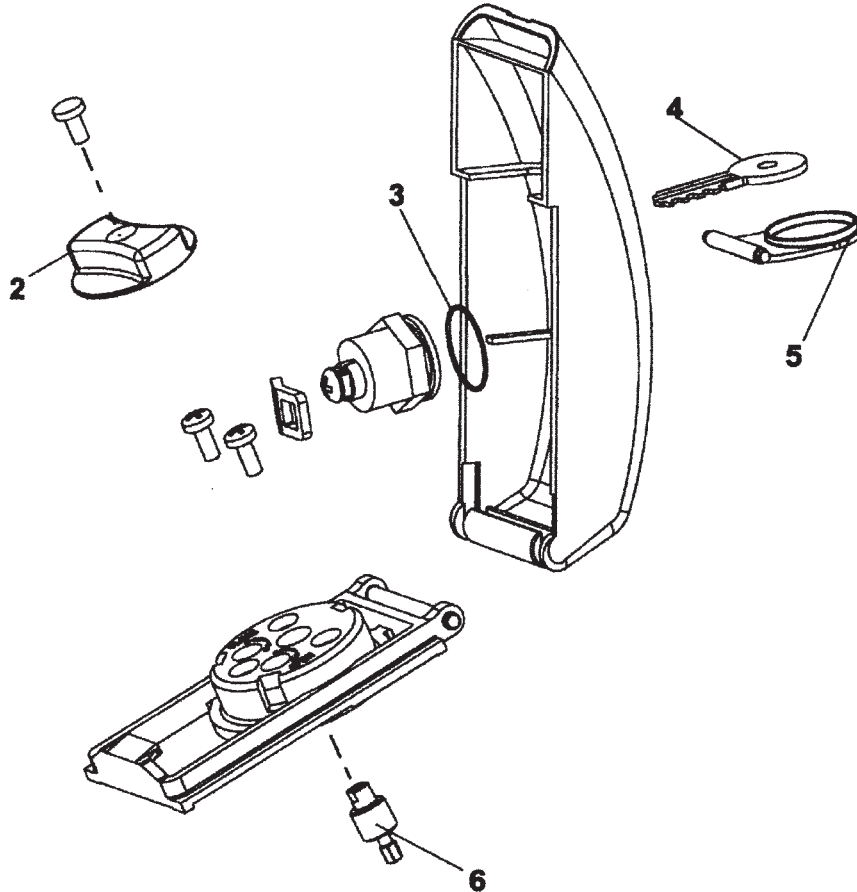
Part	Part Number	Description	List Price
01	63000816	Valve Ring Nut	\$8
02	63000816	Valve Ring Nut	\$8
03	7090050015	Gasket OR 10.82x1.78	\$
04	4404085	Stop Valve in Zamack	\$9
05	7090350025	Gasket OR 34.60x2.62	\$4
06	7090280015	Gasket OR 5.28x1.78	\$3
07	63000826	Release Valve S450H	\$27

Part	Part Number	Description	List Price
08	4180315	593-595 Commutating Piston	
09	7090010015	Seal OR 4048x1.78	\$3
10	63000676	S450H CB Gear Flange	\$204
11	4404095	2006 Suction Valve	\$18
12	63000836	Valve Spacer for S450H	\$3
13	4404065	Suction Valve with Spring	\$6

Exploded View

S450H Hydraulic Operator

Diagram 4: Emergency Lock Release



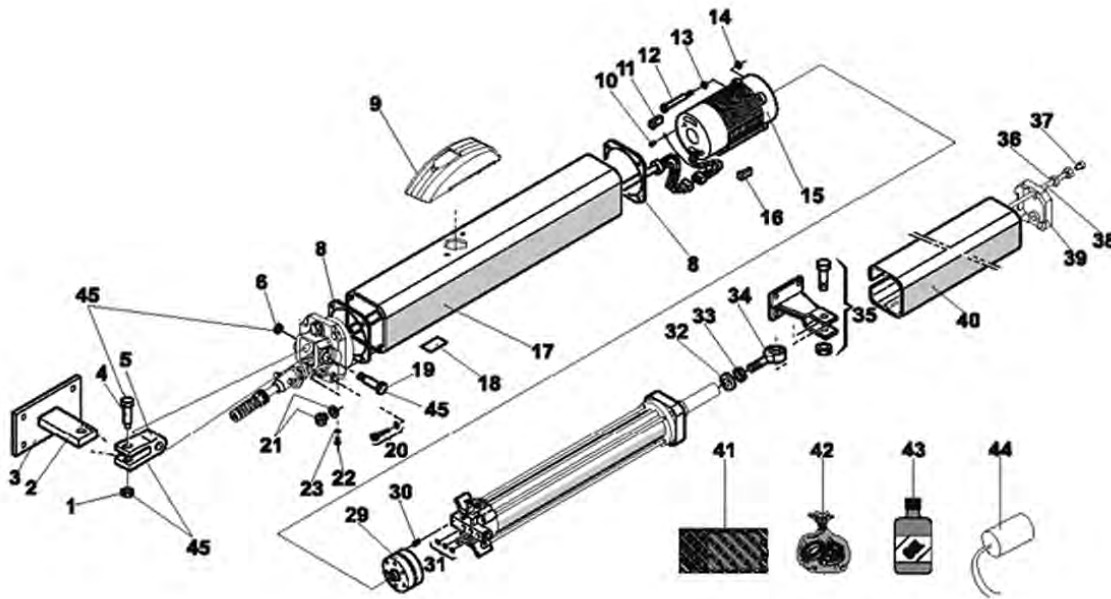
Part	Part Number	Description	List Price
01	63001985	Release Assy S450H	\$79
02	7290445	2005 Release Hand Grip	\$10
03	7090895	21x2 N70B200V Seal	
04	7131005	Key Mod. 3889.0913	\$5
05	7275275	Cap for Lock 400/422 Release 2005	\$4
06	63000666	S450H Release Pin	\$12

MODEL 400 BLOW UP AND PARTS LIST

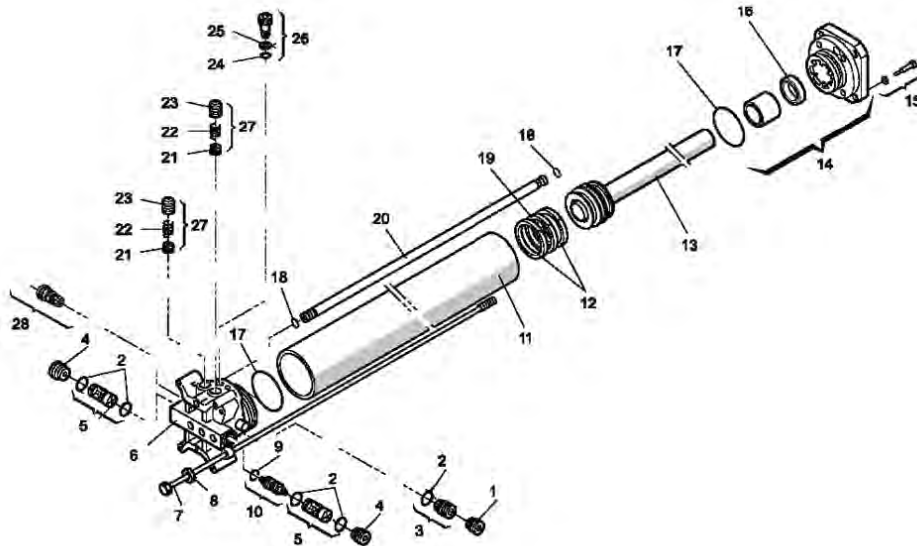
POS	PART NO	DESCRIPTION	QTY	LIST PRICE
1	2036	Galvanized Nut (8mm)	1	4.00
2	7220015	Rear Bracket	1	36.00
3	7284005	Rear Bracket Plate	1	20.00
4	7182075	Short Pin	1	14.00
5	7228015	Rear Fork	1	38.00
6	2037	Self-Locking Nut (8 mm)	1	4.00
8	70991015	Gasket (D80)	2	5.00
9	490325	Locking Cap Kit	1	68.00
10	N/A	Self Threading Screw (4mm)	1	N/A
11	7119475	Vibration Dampener	2	4.00
12	2365	Motor Bolt (4x50 mm)	4	4.00
13	2366	Lock Washer (4 mm)	4	4.00
14	2367	Hex Nut (4 mm)	4	4.00
15*	77000425	115V 1400 RPM Motor	1	194.00
16	7119485	Vibration Dampener	2	4.00
17	7161825	Operator Body 400	1	105.00
17a	7161835	Operator Body (Long/EG)	1	122.00
18	N/A	Vent Scre Label	1	N/A
19	7182175	Long Pin	1	15.00
20	N/A	T20 Torx (5 x 20mm)	4	N/A
21	7110015	Oil Plug	1	3.00
22	2274	Vent Screw (4x6 mm)	1	4.00
23	7094065	Gasket (copper)	3	3.00
29	3204425	1 Lt. Lobe Pump	1	183.00
30	N/A	Pump Pin (4x28mm)	1	N/A
31	7090010015	O-Ring	3	3.00

POS	PART NO	DESCRIPTION	QTY	LIST PRICE
32	3060	Washer (Swivel)	1	3.00
33	2069	Swivel Jam Nut (10mm)	1	5.00
34	7073095	Swivel Joint square	1	80.00
35	7220355	Front Mounting Bracket	1	30.00
35a	7220365	Front Mounting Bracket (Long E/G)	1	33.00
36	N/A	Star Washer (5mm)	2	N/A
37	7119405	Protective Cover End Cap Plug	2	3.00
38	7019195	Tie-Rod (Protective Cover)	2	6.00
38a	7019225	Tie-Rod (Protective Cover Long/EG)	2	7.00
39	4170015	Protective Cover End Cap	1	16.00
40	7272105	Protective Cover	1	61.00
40a	7272115	Protective Cover (Long/EG)	1	73.00
41	3900985	Skin Pack: 400	1	157.00
41a	3900975	Skin Pack: 400 EG	1	157.00
42	2167+	Seal Kit	1	85.00
43	6115 QT+	Oil: 1 qt.	1	29.00
44**	2707	Capacitor 8uF: 220V	1	9.00
45	7228015+	Aluminum Fork Kit	1	68.00

- * 220 VAC 8 uF Motor Part Number is 7700205 194.00
- * 220 VAC 16 uF Motor Part Number is 77000415 194.00
- ** 16uF Capacitor for use with 220 VAC Motor. Part #: 2706 9.00
- ** 25uF Capacitor for use with 115 VAC Motor. Part #: 2705 19.00

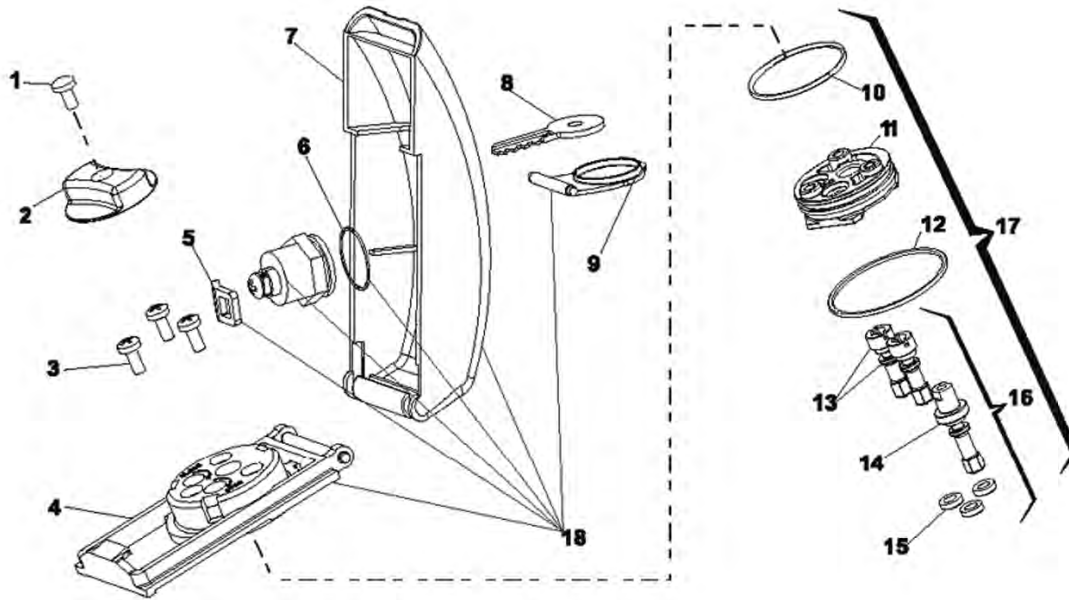


MODEL 400 BLOW UP AND PARTS LIST



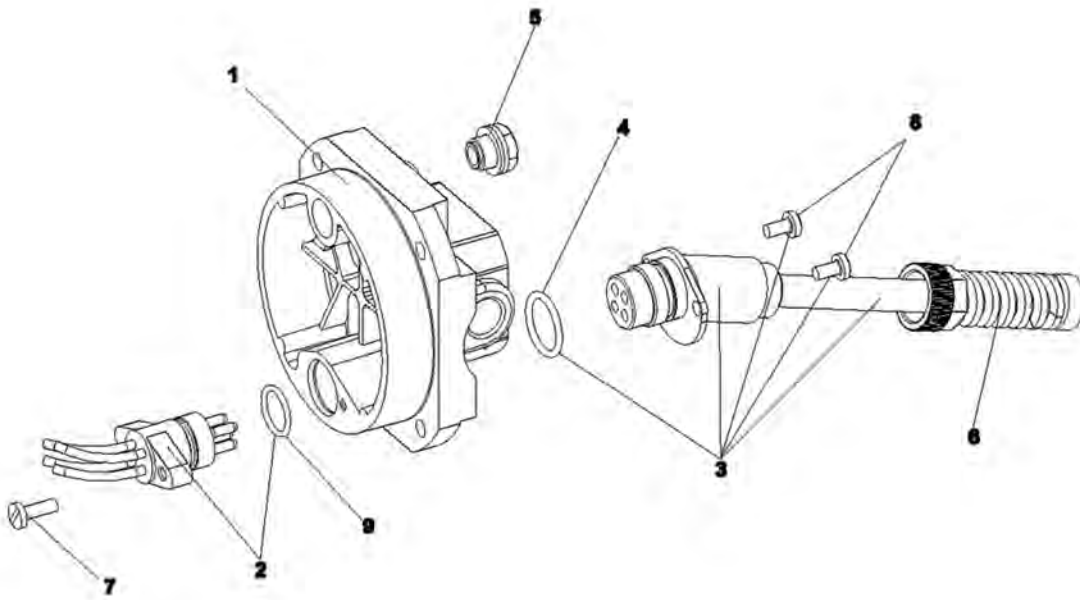
POS	PART NO	DESCRIPTION	QTY	LIST PRICE
1	7049135	Valve Retainer	1	4.00
2	N/A	O-Ring	5	N/A
3	4404065	Inlet Valve	2	6.00
4	7049005	Retainer (Brass)	2	5.00
5	4404085	Lock Valve (Bi-Metal)	2	9.00
6	4994345	Valve Body (CBAC)	1	251.00
7	7230295	Tie-Rod (Cylinder)	4	7.00
7a	7230305	Tie-Rod (Cylinder) (Long/EG)	4	9.00
8	N/A	Star Washer (5 mm)	4	N/A
9	N/A	O-Ring (Shuttle Piston)	1	N/A
10	4180285	Shuttle Piston	1	19.00
11	7366025	Cylinder	1	69.00
11a	7366015	Cylinder (Long/EG)	1	76.00
12	7091015	Piston Rod Seals	2	7.00
13	4350105	Piston Rod Assembly	1	101.00
13a	4350115	Piston Rod Assembly (Long/EG)	1	115.00
14	4994625	Front Flange	1	91.00
15	N/A	Front Flange Bolt (5 x 20 mm)	4	N/A
16	N/A	O-Ring Front Flange (Internal)	1	N/A
17	7090360025	O-Ring (Valve Body)	1	4.00
18	7090815	O-Ring (Retract Tube 06')	2	4.00
19	7049005	Guide Ring (Piston)	1	5.00
20	7361335	Retract Tube	1	28.00
21	4180415	By-Pass Cap Assembly (06)	2	15.00
24	7090280015	O-Ring (Manual Release)	1	3.00
25	N/A	Spacer (Manual Release)	1	5.00
26	4180195	Manual Release	1	19.00
28	4404095	Inlet Valve (Bi-Directional)	1	18.00

MODEL 400 LOCKING CAP PARTS LIST



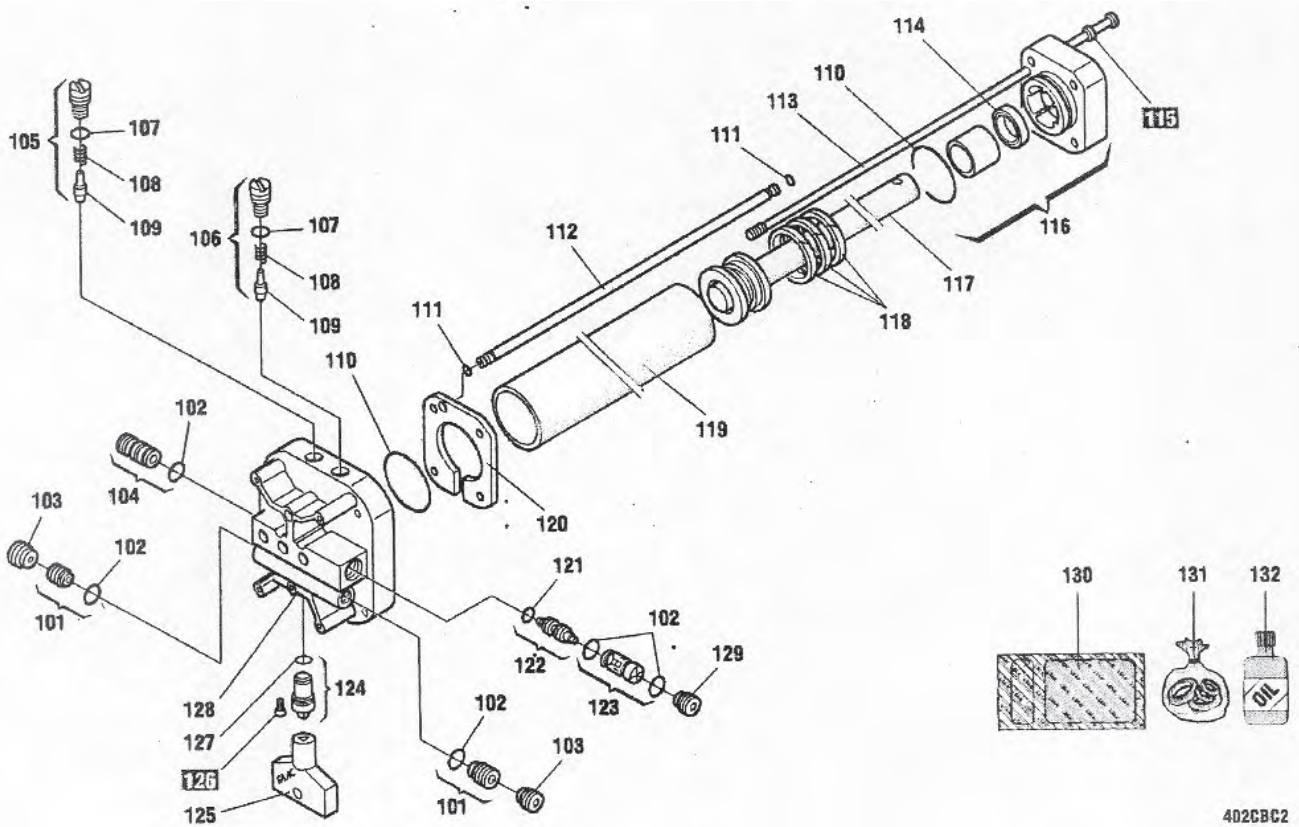
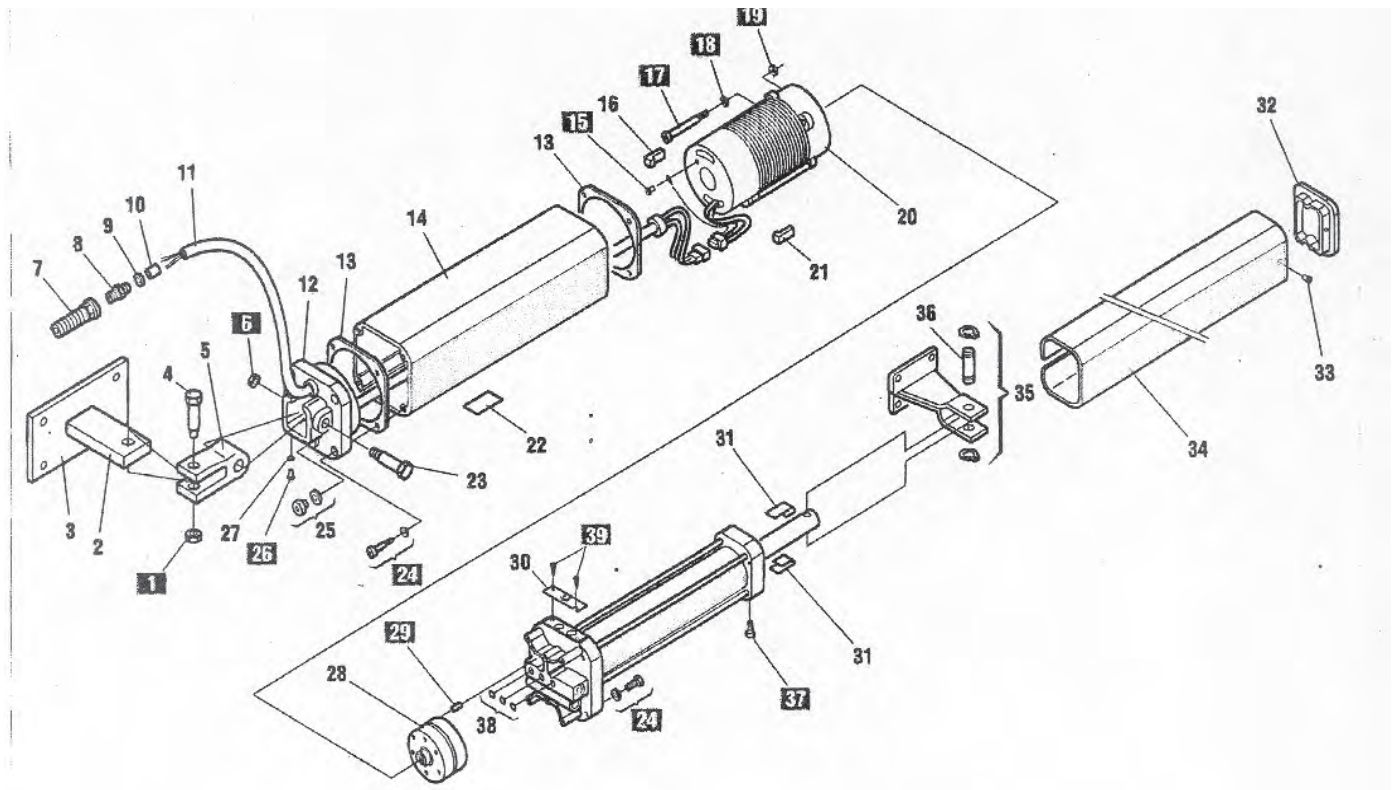
POS	PART NO	DESCRIPTION	QTY	LIST PRICE
1	2151	Knob Screw (ss) 4mm x 8mm	1	4.00
2	7290445	Manual Release Knob w/ screw	1	10.00
3	N/A	Screw (ss) 4mm x 10mm	3	N/A
4	N/A	Locking Cap Base	1	N/A
5	N/A	Lock	1	N/A
6	7090290015	O-Ring (Lock Cylinder)	1	3.00
7	N/A	Top Cover	1	N/A
8	7131005	Key (Viro)	1	5.00
9	7275275	Cover, Key	1	4.00
10	7090855	O-Ring Extension Receptacle	1	3.00
11	N/A	Extension Receptacle	1	N/A
12	7090865	O-Ring (Base to Body)	1	3.00
13	N/A	By-Pass Extensions	2	N/A
14	N/A	Manual Release Extensions	1	N/A
15	7090845	O-Ring, Extensions	3	4.00
16	490327	Extensions with O-Rings	3	30.00
17	490326	Manual Release Kit	1	36.00
18	4185045	Locking Cap Complete	1	46.00

MODEL 400 REAR FLANGE PARTS LIST



POS	PART NO	DESCRIPTION	QTY	LIST PRICE
1	7171485	Flange (Rear 08')Manual Release	1	69.00
2	417010	Wiring Harness (08')	1	22.00
3	63001005	Electric Cable	1	71.00
4	N/A	O-Ring (18x1 mm)	1	N/A
5	7110015	Plug (oil fill)	1	3.00
6	7109135	Cable support anti-kink (plastic)	1	6.00
7	N/A	Screw (3x12 mm)	1	N/A
8	N/A	Screw (3x8 mm)	1	N/A
9	7090725	O-Ring (Internal Harness)	1	2.00

BLOW-UP VIEW, MODEL 402 CBC



402CBC2

MODEL 402 CBC PARTS LIST

POS	PART NO	DESCRIPTION	QTY	List Price
1	2036	Galvanized Nut (8mm)	1	4.00
2	7220015	Rear Bracket	1	36.00
3	7284005	Rear Bracket Plate	1	20.00
4	7182075	Short Pin	1	14.00
5	7228015	Rear Fork (Alum)	1	39.00
6	2037	Self-Locking Nut (8mm)	1	4.00
7*	7109235	Strain Relief	1	21.00
9*	7039305	Strain Relief Brass Washer	1	4.00
10*	2581	Fiber Washer	1	4.00
11	7514055	Electric Power Cord	1	44.00
12	7170435	Rear Flange	1	69.00
13	70991015	Gasket (D80)	2	5.00
14	7450005	Operator Body	1	85.00
15	N/A	Self-Threading Screw	1	N/A
16	7119475	Vibration Dampener	2	4.00
17	2365	Motor Bolt (4mmx50)	4	4.00
18	2366	Lock Washer	4	4.00
19	2367	Hex Nut (4mm)	4	4.00
20**	77000425	115V 1400RPM Motor	1	194.00
21	7119485	Vibration Dampener	2	4.00
22	N/A	Vent Screw Label	1	N/A
23	7182175	Long Pin	1	15.00
24	N/A	Socket Head Screw (5x20mm)	8	N/A
25	N/A	Plug (Oil)	1	N/A
26	2274	Vent Screw (4x6mm)	1	5.00
27	7094065	Gasket (Copper)	1	2.00
28	3204425	1 Lt Lobe Pump	1	183.00
29	N/A	Pump Pin	2	N/A
30	N/A	By-Pass Protection Cover	1	N/A
31	N/A	Spacers (Protective Cover)	2	N/A
32	7271545	Protective Cover End Cap	1	5.00
33	7114025	Protective Cover Plug	1	2.00
34	7272085	Protective Cover	1	71.00
35	4304015	Front Mounting Bracket	1	20.00
36	7182355	Pin Front Bracket	1	5.00
37	N/A	Black Plastic Screw	1	N/A
38	7090010015	O-Ring (3)	3	3.00
39	N/A	Stainless Steel Screw (2.9mm x 6.5mm)	2	N/A

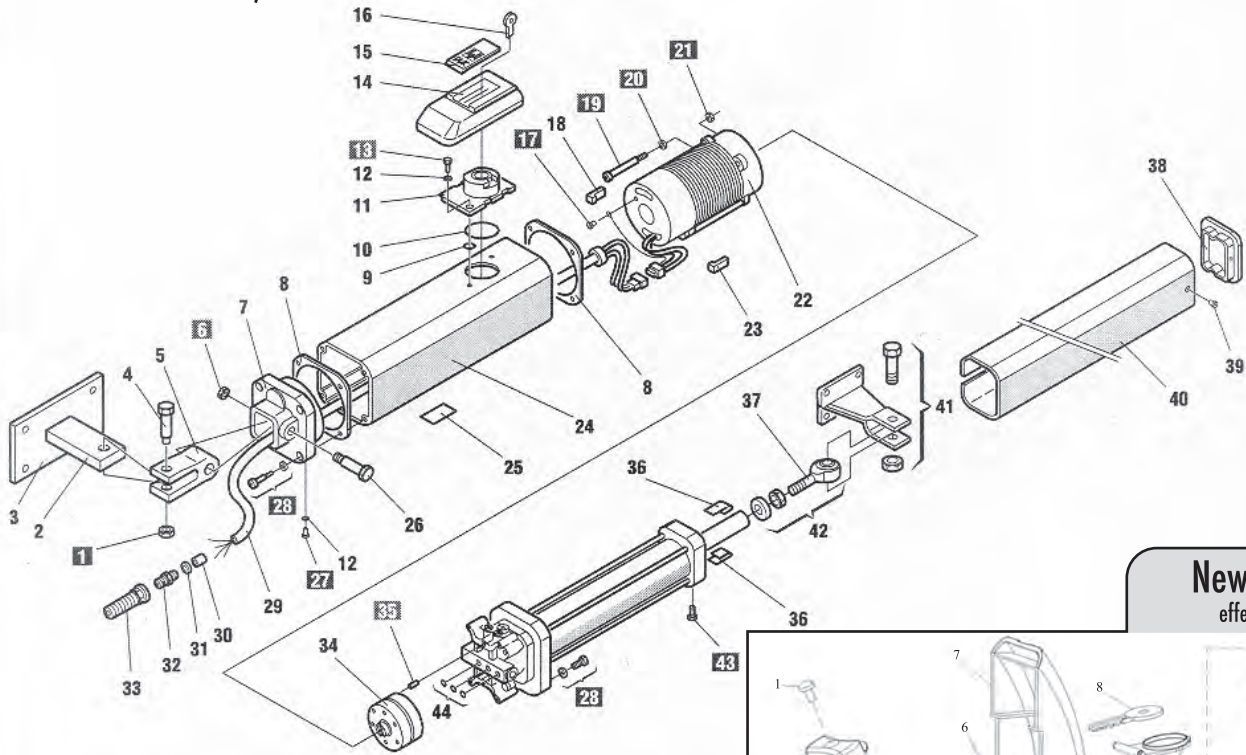
POS	PART NO	DESCRIPTION	QTY	List Price
101	4404065	Inlet Valve	2	6.00
102	N/A	O-Ring	5	N/A
103	7049005	Valve Retainer	2	5.00
104	4180205	Black Lock Valve	1	5.00
105	4180395	Brass By-Pass Valve	1	9.00
110	7090350025	O-Ring (Front Flange)	2	4.00
111	7090665	O-Ring (Alum Retract Tube)	2	4.00
112	7361315	Retract Tube (Alum)	1	33.00
113	7230225	Tie-Rod (Cylinder)	4	6.00
114	N/A	O-Ring (Front Flange Internal)	1	N/A
115	N/A	Star Washer	4	N/A
116	4994165	Front Flange	1	70.00
117	4350065	Piston Assembly	1	106.00
118	7095035	Piston Rod Packing	1	20.00
119	7366065	Cylinder	1	77.00
120	7271555	Protective Cover Guide	1	4.00
121	N/A	O-Ring (Shuttle Piston)	1	N/A
122	4180285	Shuttle Piston	1	19.00
123	4404085	Lock Valve	1	9.00
124	4180355	Manual Release	1	19.00
125	713002	Triangular Release Key	1	500
126	N/A	Galvanized Screw	1	N/A
128	4994365	Valve Body (CBC)	1	251.00
129	7049005	Brass Retainer	1	5.00
130	3905235	Skin Pack (Double)	1	152.00
130	3906145	Skin Pack (Single)	1	90.00
131	2168+	Seal Kit	1	117.00
132	6115 Qt +	Monolec Oil (1 Qt)	1	29.00

* 7109235 Included in kit

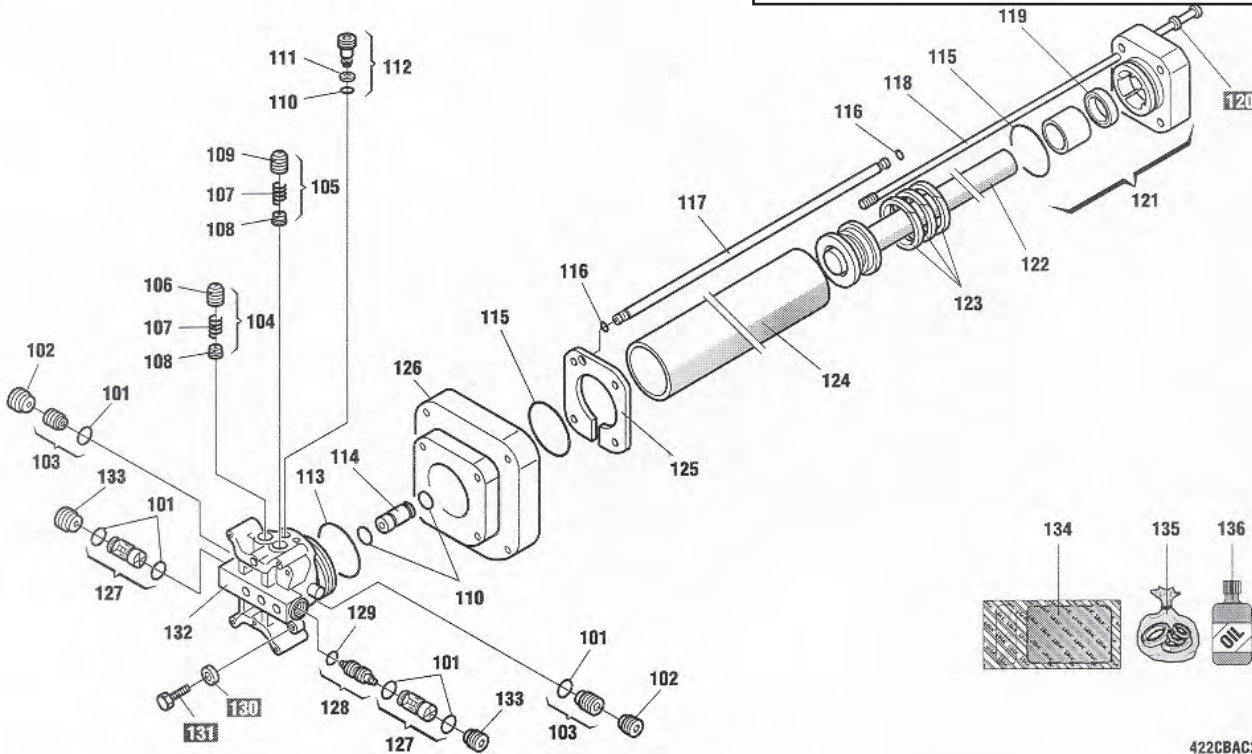
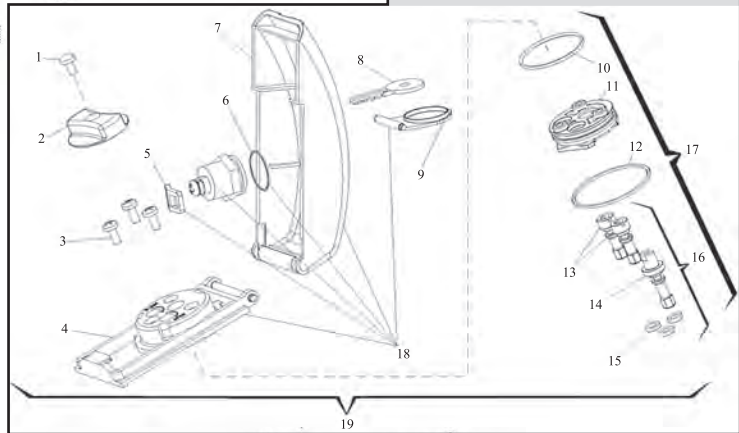
** 77000415 220V Motor - 16 uf capacitor

** 7700205 220V Motor - 8 uf capacitor

EXPLODED VIEW, MODEL 422



New locking cap
effective Sept. 1, 2006



422CBAC2

MODEL 422 PARTS LIST

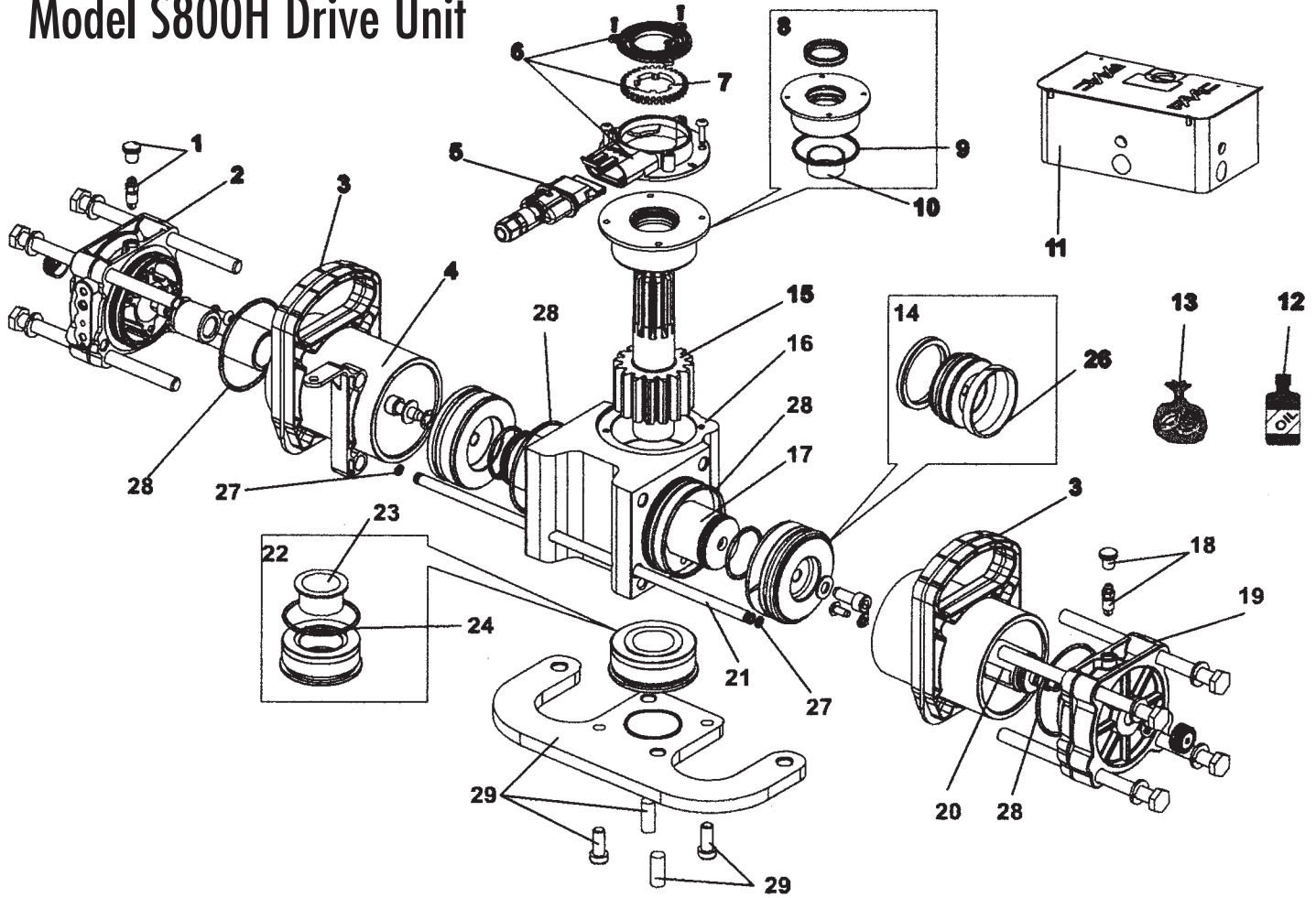
POS	PART NO	DESCRIPTION	QTY	LIST PRICE
1	2036	Galvanized Nut (8mm)	1	4.00
2	7220015	Rear Bracket	1	36.00
3	7284005	Rear Bracket Plate	1	20.00
4	7182075	Short Pin	1	14.00
5	7228015	Rear Fork	1	39.00
6	2037	Self-Locking Nut (8 mm)	1	4.00
7	7170685	Rear Flange	1	71.00
8	70991015	Gasket (D80)	2	5.00
9	7090440015	O-Ring Locking Cap (Small)	2	3.00
10	7090655	O-Ring Locking Cap (Center)	1	4.00
11	41850215	Locking Cap	1	69.00
12	7094065	Gasket (Copper)	1	3.00
13	2274	Vent Screw (4x6 mm)	2	5.00
14	7270805	Locking Cap Cover	1	21.00
15	7270815	Access Slide (Locking Cap)	1	8.00
16	7131005	Viro Key (Manual Release)	1	5.00
17	N/A	Self Threading Screw (4mm)	1	N/A
18	7119475	Vibration Dampener	2	4.00
19	2365	Motor Bolt (4x50 mm)	4	5.00
20	2366	Lock Washer	4	4.00
21	2367	Hex Nut (4 mm)	4	4.00
22**	77000425	115V 1400 RPM Motor	1	194.00
23	7119485	Vibration Dampener	2	4.00
24	309005	Operator Body	1	84.00
25	N/A	Vent Screw Label	1	N/A
26	7182175	Long Pin	1	15.00
27	2274	Vent Screw (4x6 mm)	1	5.00
28	N/A	Socket Head Screw (5x20 mm)	8	N/A
29	7514055	Electric Power Cord	1	44.00
30*	2581	Fiber Washer	1	4.00
31*	7039305	Strain Relief Brass Washer	1	4.00
32*	7109235	Strain Relief Nut	1	21.00
33*	7109235	Strain Relief	1	21.00
34	3204425	1 Lt. Lobe Pump	1	183.00
35	N/A	Pump Pin	2	N/A
36	N/A	Spacers (Protective Cover)	2	N/A
37	4900605	Swivel Joint	1	49.00
38	7271545	Protective Cover End Cap	1	5.00
39	7114025	Protective Cover Plug	1	3.00
40	7272125	Protective Cover	1	73.00
41	7220515	Front Mounting Bracket	1	20.00
42	4900605	Swivel Joint Kit	1	49.00
43	N/A	Self Threading Screw	1	N/A
44	7090010015	O-Ring	3	3.00
101	7090010015	O-Ring	6	3.00
102	7049005	Valve Retainer	2	5.00
103	4404065	Inlet Valve	2	6.00
104	4180035	Red By-Pass Cap Assembly	1	5.00
105	4180045	Green By-Pass Cap Assembly	1	5.00
106	4180035	By-Pass Cap (Red)	1	5.00
109	4180045	By-Pass Cap (Green)	1	5.00
110	7090280015	O-Ring Retract Tube (Short)	3	3.00
112	4180195	Manual Release	1	19.00

POS	PART NO	DESCRIPTION	QTY	LIST PRICE
113	7090360025	O-Ring (Valve Body)	1	4.00
115	7090350025	O-Ring (Mid-Flange)	2	4.00
116	7090665	O-Ring Retract Tube (Long)	2	4.00
117	7361315	Retract Tube (Long)	1	33.00
118	7230225	Tie-Rod (Cylinder)	4	6.00
119	N/A	O-Ring Front Flange (Internal)	1	N/A
120	N/A	Star Washer	4	N/A
121	4994165	Front Flange	1	70.00
122	4350085	Piston Assembly	1	99.00
123	7095035	Piston Rod Packing	1	20.00
124	7366065	Cylinder	1	77.00
125	7271555	Protective Cover Guide	1	4.00
126	499449	Mid Flange	1	71.00
127	4404085	Lock Valve	2	9.00
128	4180285	Shuttle Piston '97	1	18.00
130	N/A	Galvanized Washer	4	N/A
131	N/A	Galvanized Screw	4	N/A
132	4994345	Valve Body (CBAC)	1	251.00
133	7049005	Valve Retainer	2	5.00
134	3905325	Skin Pack - Single	1	133.00
135	2172+	Seal Kit	1	122.00

* 7109235 Included In Kit 19.00
 ** 77000415 220V Motor - 16 uf capacitor 181.00
 ** 7700205 220V Motor - 8 uf capacitor 181.00

POS	PART NO	DESCRIPTION	QTY	LIST PRICE
1	2151	Knob Screw (SS) 4mm x 8mm	1	3.00
2	7290445	Manual Release Knob	1	10.00
3	N/A	Screw (SS) 4mm x 10mm	3	N/A
4	N/A	Locking Cap Base	1	N/A
5	N/A	Lock	1	N/A
6	7090290015	O-Ring (Lock Cylinder)	1	3.00
7	N/A	Top	1	N/A
8	7131005	Key (Viro)	1	5.00
9	7275275	Cover, Key	1	4.00
10	7090855	O-Ring (Base to Body)	1	3.00
11	N/A	Extension Receptacle	1	N/A
12	7090865	O-Ring Extension Receptacle	1	3.00
13	N/A	By-Pass Extensions	2	N/A
14	N/A	Manual Release Extension	1	N/A
15	7090845	O-Ring, Extensions	3	3.00
16	490327	Extensions with O-Rings	3	30.00
17	490326	Manual Release Kit	1	36.00
18	4185045	Locking Cap Complete	1	46.00
19	490325	Locking Cap with Manual Release System	1	68.00
24	7161815	Operator Body (New)	1	69.00

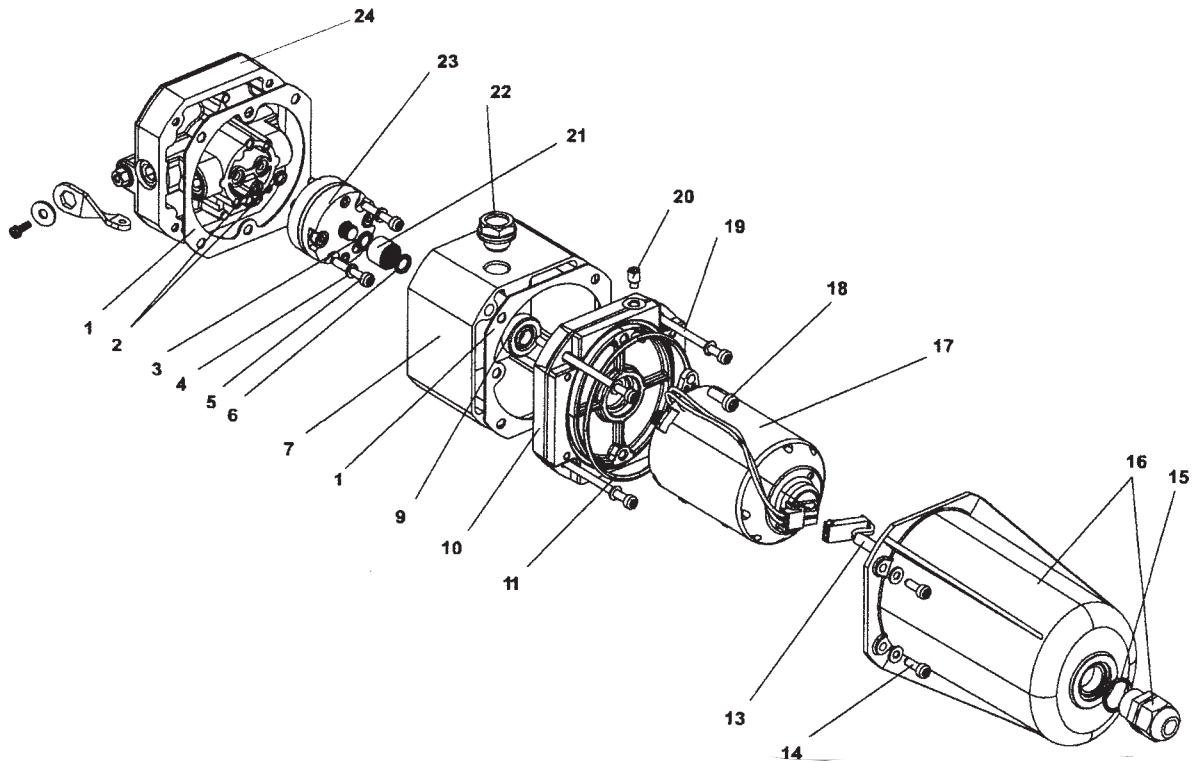
Exploded View, Model S800H Drive Unit



Part	Part Number	Description	List Price
01	63000016	Escape valve Group	\$29
02	63000136	Flange LH	\$132
03	63002625	NR. 2 Handles	\$28
04	63000116	100° Cylinder Barrel	\$76
05	63000125	Encoder	\$109
06	63000005	Encoder Support Kit	\$74
07	63000115	Magnetic Discs	\$48
08	63000075	Upper Bushing Group	\$88
09	63000176	OR 55.25x2.62 gasket	\$3
10	63000186	IGUS Cylindrical Brush	
11	490112	Foundation Box	\$562
12	714017	Hydraulic Oil LT. 1	
13	63000006	Gasket Kit	\$114
14	63000106	Piston	\$90

Part	Part Number	Description	List Price
15	63000056	Piston Shaft	\$130
16	63000046	Central Body	\$267
17	63000086	100° Rack	\$137
18	63000016	Escape Valve Group	\$29
19	63000146	Flange RH	\$126
20	63000036	Positive Stop	\$58
21	63000156	100° Feeding Pipe RH	
22	63000066	Lower Bushing Group	
23	63000206	Igus Cylindrical Bush	
24	63000196	OR3200 50.47x2.62 Gasket	
26	70992025	Bals B275236 Gasket	\$18
27	7090635	Seal ORM 5x1.5 (0050-5)	\$3
28	7090490025	Gasket OR 64.77x2.62	\$4
29	63002465	Foundation Plate	\$87

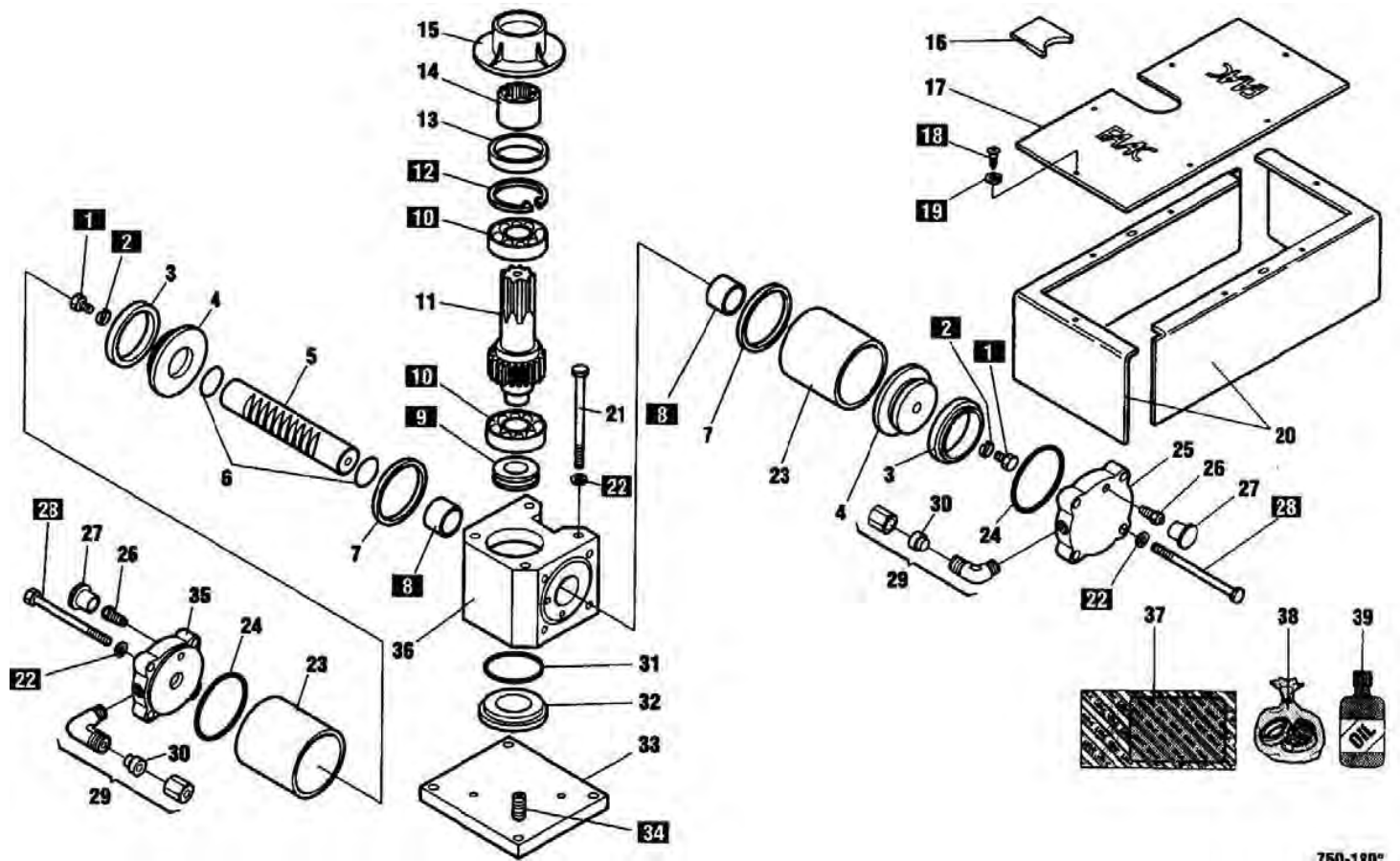
Exploded View, Model S800H Pump Unit



Part	Part Number	Description	List Price
01	63000276	Gasket For Tank	\$10
02	7090010015	Seal OR 4.48x1.78	\$3
03	7090030015	Gasket OR 6.75x1.78	\$3
04	703101	Washer Grower 4 1751 Z	
05	701632	Screw TCEI M4x25 UNI 5931 8G Z	
06	7090030015	Gasket OR 6.75x1.78	\$3
07	63000266	24 V Hydr. Unit Tank	\$56
09	63000306	N7MMR Type gasket	\$5
10	63000376	S800H Motor Flange	
11	7090100025	Gasket OR 72.69x2.62	
13	63001665	S800H UL Motor Cable	\$25

Part	Part Number	Description	List Price
14	701103	TCEI 4X 12 5931 INOX	
15	7090190015	Gasket OR 14.00x1.78	
16	63002635	S800H Motor Cover	\$50
17	63000376	S800H Motor	
18	701072	Screw TCEI 5X 14 5931 8.8 Z	
19	70195	Screw TCEI M4x75 UNI 5931 INOX	
20	701245	STEI M6x8 UNI 5925 + Veblock 360°	
21	63000256	Bush for Pum Shaft	\$14
22	7110015	CAP	\$3
23	63000246	0.5 LT 10010 Pump	\$193
24	63000226	CB Flange	\$215

BLOW-UP VIEW, MODEL 750



750-100*

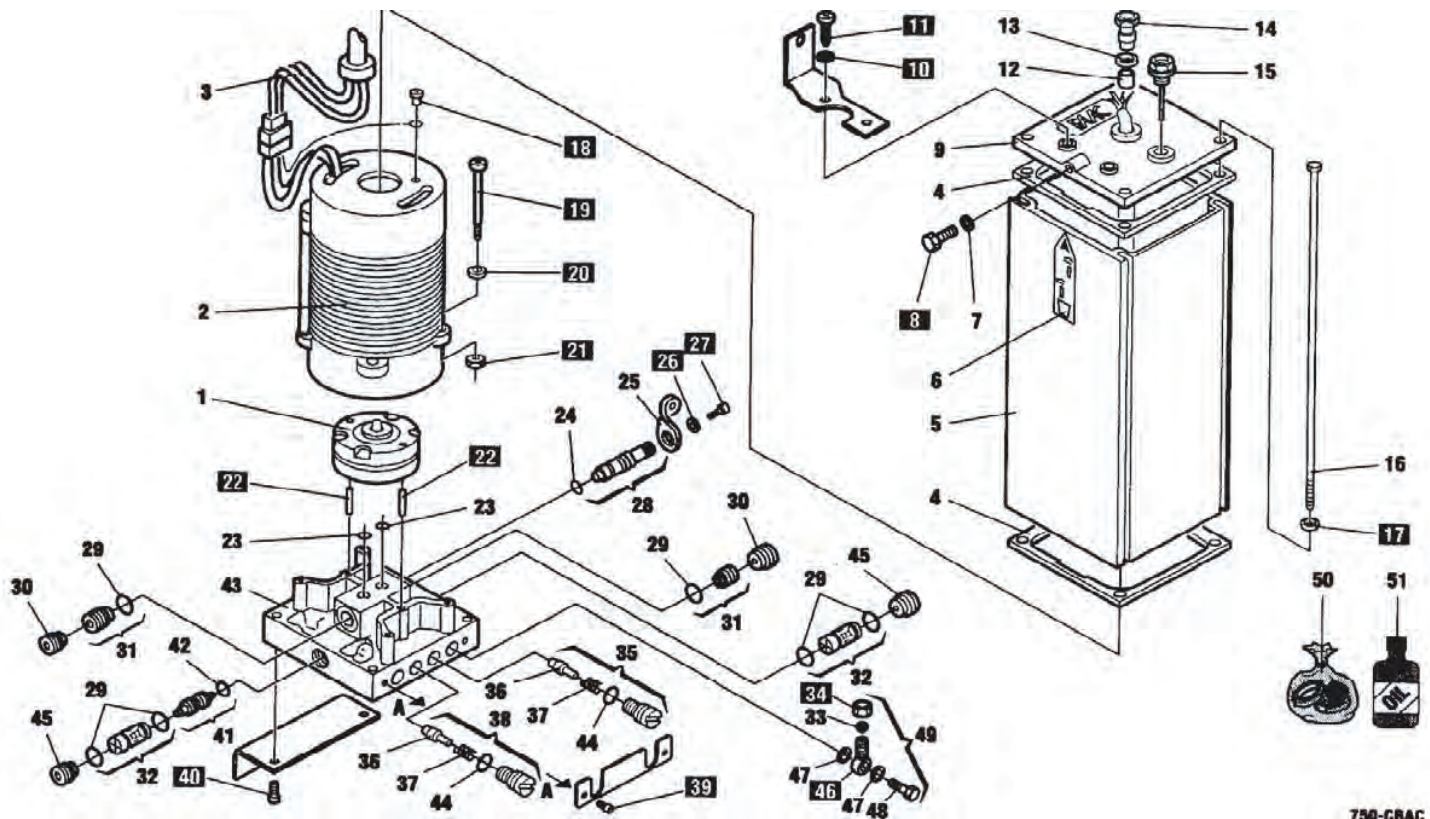
POS	PART NO	DESCRIPTION	QTY	LIST PRICE
1	N/A	Bolt (10mm x 25mm)	2	N/A
2	N/A	Lock Washer	2	N/A
3	7091045	Piston Ring	2	12.00
4	7350155	Piston	2	44.00
5	7193055	750 Rack (100 Degree)	1	112.00
6	N/A	O-Ring (26.7mm x 1.78mm)	2	N/A
7	7099195	Gasket Cylinder	2	5.00
8	N/A	FBushing	2	N/A
9	2339	Bearing Thrust	1	99.00
10	2481	Bearing (6006)	2	125.00
11	7191525	Pinion	1	196.00
12	2550	Snap Ring	1	7.00
13	7093035	Seal (Top)	1	16.00
14	7309095	Splined Collar	1	33.00
15	7039125	Dust Cover	1	10.00
16	7280445	Cover Plate	1	4.00
17	7270415	Box Lid (750 Half Box)	1	71.00
18	N/A	Self-Tapping Screw Stainless Steel (3.9mm x 9.5mm)	6	N/A
19	N/A	Lock Washer (Stainless Steel)	6	N/A

POS	PART NO	DESCRIPTION	QTY	LIST PRICE
20	7223205	Half Box	2	42.00
21	N/A	Bolt (8mm 100mm)	4	N/A
22	N/A	Lock Washer	12	N/A
23**	7366245	Cylinder (100 Degree)	2	76.00
24	N/A	O-Ring (66.4mm x 1.78mm)	2	N/A
25	7170275	Flange (Right Side)	1	45.00
26	7246025	Zert Fitting (Air Drain)	2	6.00
27	7110045	Dust Cover (Zert Fitting)	2	3.00
28	7011075	Bolt (8mm x 105mm)	8	7.00
29	710101002	Elbow	2	28.00
30	7102025	Ferrule Fitting	2	3.00
31	N/A	O-Ring (50.52mm x 1.78mm)	1	N/A
32	7200165	Bearing Cup (Bottom)	1	36.00
33	7287515	Leveling Plate	1	85.00
34	701217	Leveling Bolt (12mm x 35mm)	4	13.00*
35	7170285	Flange (Left Side)	1	45.00
36	7161745	Body	1	210.00
37	39050915	Skin Pack	1	38.00
38	2171+	Seal Kit (750 Drive Unit)	1	90.00
39	6115 Qt +	Monolec Oil (1 Qt)	1	29.00

* 7193065 750 Rack 180° 113.00

** 7366235 750 Cylinder 180° 87.00

BLOW UP, MODEL 750 CBAC



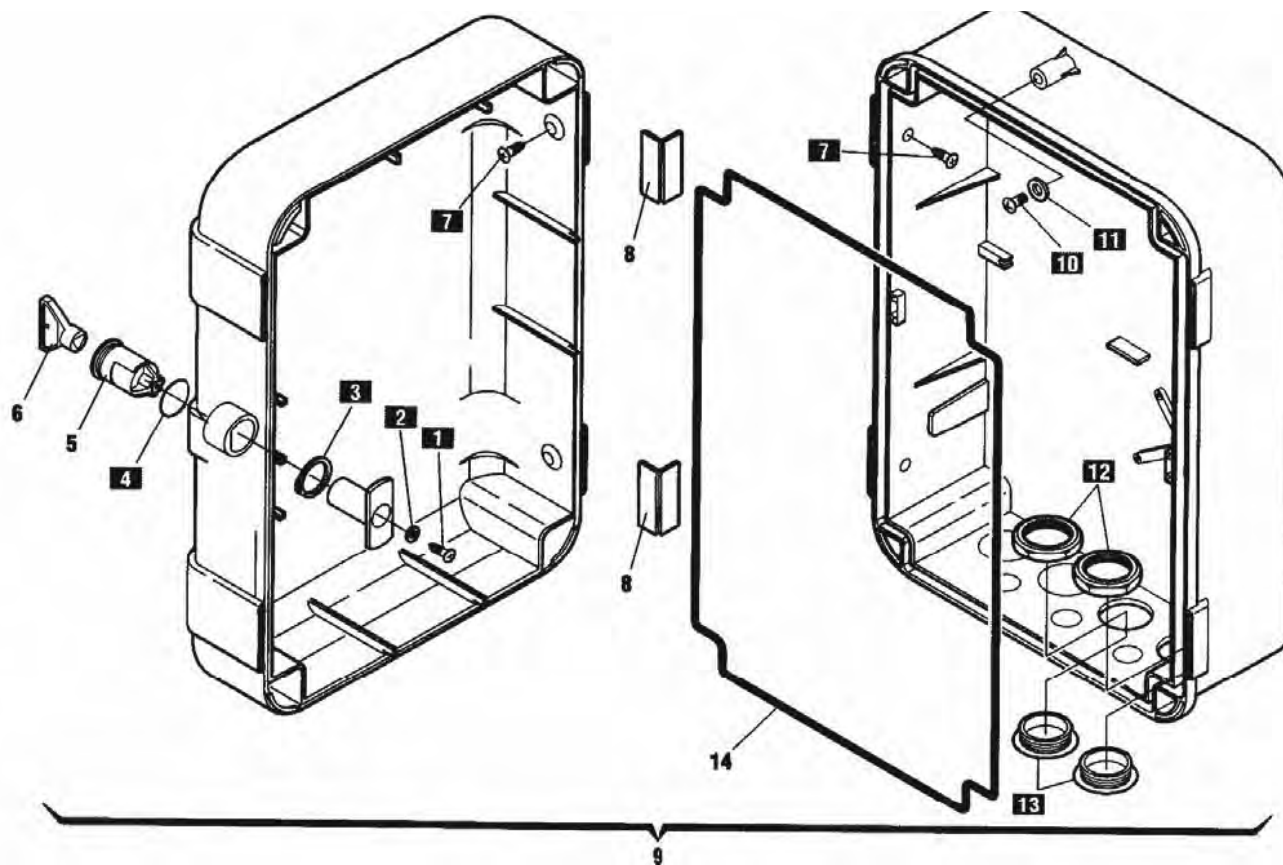
750-CBAC

POS	PART NO	DESCRIPTION	QTY	LIST PRICE
1	3204435	Lobe Pump (.75 Lt)	1	183.00
2*	77000425	115V 1400 RPM Motor	1	194.00
3	7514125	Electric Power Cord	1	57.00
4	7099315	Flange Gasket	2	6.00
5	7450115	Body (Pump Housing)	1	71.00
6	N/A	Vent Screw Diagram	1	N/A
7	7094065	Washer (7mm x 4mm x 1mm)	1	3.00
8	2274	Vent Screw (4mm x 6mm)	1	5.00
9	7270531	Flange (Upper)	1	N/A
10	N/A	Lock Washer	2	N/A
11	N/A	Screw (6mm x 10mm)	2	N/A
12**	2581	Fiber Washer	1	4.00
13**	7039305	Washer (Brass)	1	4.00
14**	7109235	Nut (Strain Relief)	1	21.00
15	7112055	Filler Cap (Dip Stick)	1	5.00
16	N/A	Tie Rod	4	N/A
17	N/A	Star Washer	4	N/A
18	2274	Vent Screw (Ground Screw)	1	5.00
19	2365	Motor Bolt (4mm x 50mm)	4	4.00
20	2366	Lock Washer	4	4.00
21	2367	Jam Nut	4	4.00
22	N/A	Pin (Pump 4mm x 28mm)	2	N/A
23	7090010015	O-Ring (Pump 4.48mm x 1.78mm)	2	3.00
24	7090030015	O-Ring (6.75mm x 1.78mm)	1	3.00
25	7290155	Manual Release Lever	1	6.00
26	N/A	Washer (4mm x 12mm)	1	N/A
27	N/A	Allen Bolt (4mm x 12mm)	1	N/A
28	4180225	Manual Release	1	21.00

POS	PART NO	DESCRIPTION	QTY	LIST PRICE
29	N/A	O-Ring (10.82mm x 1.78mm)	6	N/A
30	7049005	Lock Valve Retainer	2	5.00
31	4404065	Inlet Valve	2	6.00
32	4404085	Lock Valve	2	8.00
33	7102055	Ferrule Fitting	2	4.00
34	N/A	Nut (12mm x 1mm)	2	N/A
35	4180395	By Pass Cap (Brass)	1	9.00
36	4180395	By Pass Cap Plug	2	9.00
37	4180395	By Pass Spring	2	9.00
38	4180395	By Pass Cap (Brass)	1	9.00
39	N/A	Self Tapping Screw (2.9mm x 6.5mm)	2	N/A
40	N/A	Screw (5mm x 8mm)	2	N/A
41	4180285	Shuttle Piston	1	19.00
42	7090440015	O-Ring (7.6mm x 1.78mm)	1	2.00
43	499445	Valve Body	1	211.00
44	7090150015	O-Ring (9.25mm x 1.78mm)	2	3.00
45	7049005	Lock Valve Retainer(Brass)	2	5.00
48	7110115	Gas Fittings	2	10.00
49	390700	Banjo Bolt Kit	1	36.00
50	2170+	Seal Kit Pump	1	85.00
51	6115 Qt+	Monolec Oil (1 Qt)	1	29.00

* All included in kit #7109235 21.00
 ** 220V 1400 RPM Motor Part #7700205 194.00
 * 77000415 220V motor - 16ufcapacitor 194.00

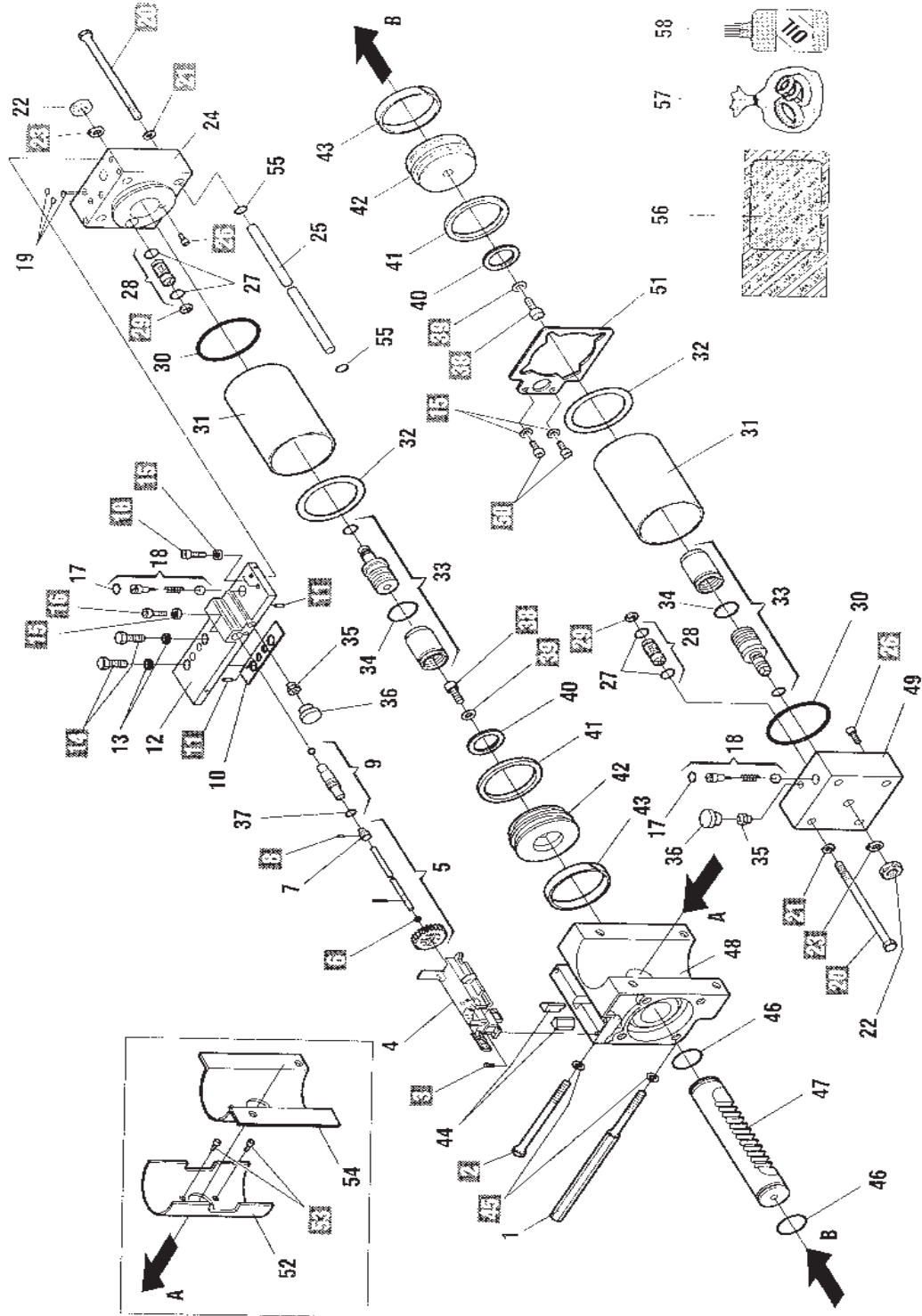
BLOW-UP VIEW, MODEL 750 ENCLOSURE



MODEL 750 ENCLOSURE PARTS LIST

POS	PART NO	DESCRIPTION	QTY	LIST PRICE
1	N/A	Self Tapping Screw (3.9mm x 9.5mm)	1	N/A
2	N/A	Washer	1	N/A
3	N/A	Snap Ring	1	N/A
4	N/A	O-Ring (15.6mm x 1.78mm)	1	N/A
5	7128035	Lock Body (Enclosure)	1	4.00
6	713002	Triangular Release Key	1	5.00
7	N/A	Galvanized Self Topping Screw (2.9mm 9.5mm)	1	4.00
8	7309105	Plastic Hinge	1	5.00
9	720309	750 Enclosure	1	102.00
10	N/A	Self Tapping Screw (4.8mm x 16.7mm)	1	N/A
11	N/A	Washer	1	N/A
12	N/A	Nut (Plastic)	2	N/A
13	N/A	Plug (Plastic)	2	N/A
14	709974	Gasket (Lid)	1	5.00

BLOW-UP VIEW, MODEL 760



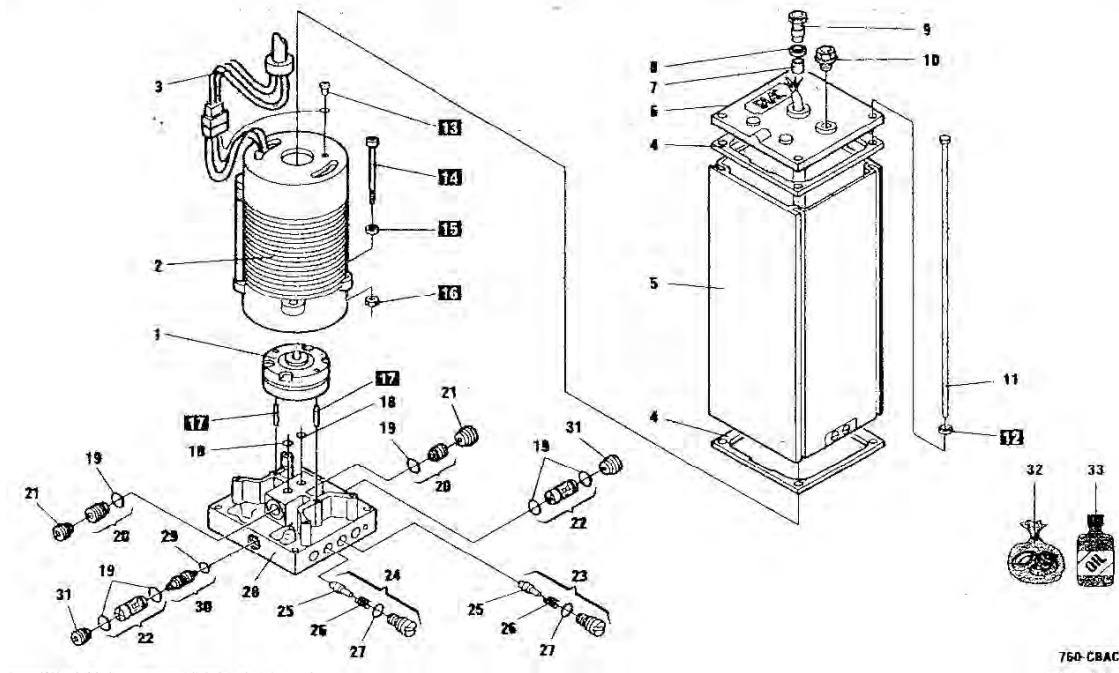
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MODEL 760 PARTS LIST

POS	PART NO.	DESCRIPTION	QTY	LIST PRICE
1	7019345	Mounting Bolt (Bottom)	2	20.00
2	7011345	Mounting Bolt (Top)	2	7.00
3	N/A	Stainless Steel Screw (Doghouse)	4	N/A
4	7201295	Manual Release Housing	1	15.00
5	4246385	Manual Release Rod	1	37.00
6	N/A	Snap Ring	1	N/A
7	N/A	Manual Release Rod End	1	N/A
8	N/A	Retaining Pin	1	N/A
9	4180295	Manual release	1	23.00
10	7099595	Gasket (Manifold)	1	23.00
11	N/A	Parallel Pin	2	N/A
12	499762	Manifold	1	168.00
13	7039285	Copper Washer	2	4.00
14	7110115	Banjo Bolt	2	10.00
15	N/A	Lock Washer	5	N/A
16	N/A	Allen Head Bolt	3	N/A
17	7090150015	O-Ring (With Part No. 18)	2	3.00
18	4180265	Brass By-Pass Cap (Break)	2	23.00
19	7090010015	O-Ring	3	3.00
20	7011355	Flange Bolt Stainless Steel	8	10.00
21	N/A	Lock Washer	8	N/A
22	N/A	Jack Counter Nut Brass Jam Nut	2	N/A
23	N/A	Snap Ring	2	N/A
24	499760	Flange (Manifold Side)	1	456.00
25	7361365	Retract Tube	1	25.00
26	N/A	Allen Head Screw	2	N/A
27	N/A	O-Ring (With Part No. 28)	4	N/A
28	4404085	Lock Valve	2	9.00
29	N/A	Snap Ring	2	N/A
30	7090490025	O-Ring (Flange)	2	4.00

POS	PART NO.	DESCRIPTION	QTY	LIST PRICE
31	7366135	Cylinder	2	110.00
32	7099585	Gasket (Cylinder)	2	6.00
33	7350275	Ramping Piston	2	43.00
34	N/A	O-Ring (Ramping Piston)	2	N/A
35	7246025	Air Drain Valve	2	6.00
36	7110045	Debris Cover	2	3.00
37	N/A	O-Ring (Manual Release)	1	N/A
38	N/A	Allen Head Bolt (Piston)	2	N/A
39	N/A	Lock Washer	2	N/A
40	7094115	RPiston (Red Internal)	2	15.00
41	7092025	Piston Seal	2	18.00
42	7350275	Piston	2	43.00
43	7049195	Piston Seal (Inner)	2	26.00
44	7119485	Vibration Dampener	2	4.00
45	N/A	Lock Washer (Coated)	4	N/A
46	7090380025	O-Ring (Rack)	2	4.00
47	7193205	Rack	1	135.00
48	7160505	Ram Body	1	125.00
49	499761	Flange (Non-Manifold)	1	436.00
50	N/A	Allen Head Screw	2	N/A
51	7224215	Bracket (Pump to Drive)	1	7.00
52	7099575	Gasket (Drive to Box)	1	9.00
53	N/A	Self Tapping Screw	2	N/A
54	N/A	Rack Protecting Cover	1	N/A
55	7090665	O-Ring (Retracting Tube)	2	4.00
56	3905515	Skin Pack (Mounting Hardware)	1	96.00
57	2176+	Seal Kit Drive Unit	1	194.00
58	6115 Qt+	Monolec Oil (1 Qt.)	1	29.00

BLOW-UP, MODEL 760 CBAC

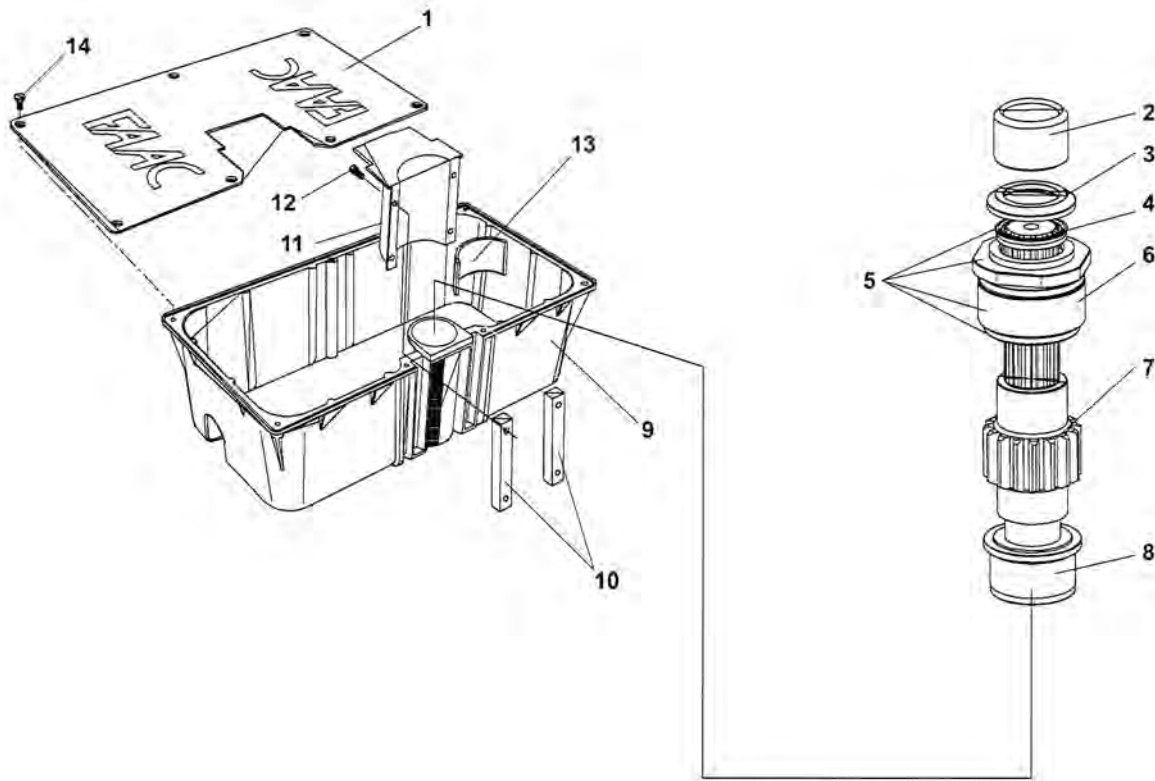


POS	PART NO	DESCRIPTION	QTY	LIST PRICE
1	3204435	Lobe Pump 75 lt.	1	183.00
2**	77000425	115v 1400 RPM Motor	1	194.00
3	7514125	Electric Power Cord	1	57.00
4	7099315	Flange Gasket	2	6.00
5	7450115	Body (Pump Housing)	1	71.00
6*	7276025	Flange (Upper)	1	28.00
7*	2581	Fiber Washer	1	4.00
8*	7039305	Strain Relief Brass Washer	1	4.00
9*	7109235	Strain Relief Nut	1	21.00
10	N/A	Filler Cap	1	N/A
11*	7230385	Tie Rod Pump (760)	4	10.00
12	N/A	Star Washer Stainless Steel	4	N/A
13	2274	Vent Screw (4mm x 8mm)	1	5.00
14	2365	Motor Bolt (4mm x 50mm)	4	4.00
15	2366	Lock Washer (4mm)	4	4.00
16	2367	Hex Nut (4mm)	4	4.00
17	N/A	Pump Pin (4mm x 28mm)	2	N/A
18	7090010015	O-Ring	2	3.00

POS	PART NO	DESCRIPTION	QTY	LIST PRICE
19	N/A	O-Ring	6	N/A
20	4404065	Inlet Valve	2	6.00
21	N/A	Valve Retainer	2	N/A
22	4404085	Lock Valve	2	9.00
23	4180395	Green By-Pass Cap	1	9.00
24	4180395	Red By-Pass Cap	1	9.00
25	4180395	By-Pass Cap	2	9.00
26	4180395	By-Pass Spring	2	9.00
27	N/A	O-Ring (By-Pass Cap)	2	N/A
28	4994075	Valve Body	1	183.00
29	N/A	O-Ring (Shuttle Piston)	1	N/A
30	4180285	Shuttle Piston	1	19.00
31	7049005	Valve Retainer (Brass)	2	5.00
32	2170+	Seal Kit	1	85.00
33	6115 Qt+	Monolec Oil (Qt.)	1	29.00

- * 7109235 Included in Kit 21.00
- * 77000415 220V Motor 16 uf Capacitor 194.00
- * 7700205 220V Motor 8 uf Capacitor 194.00

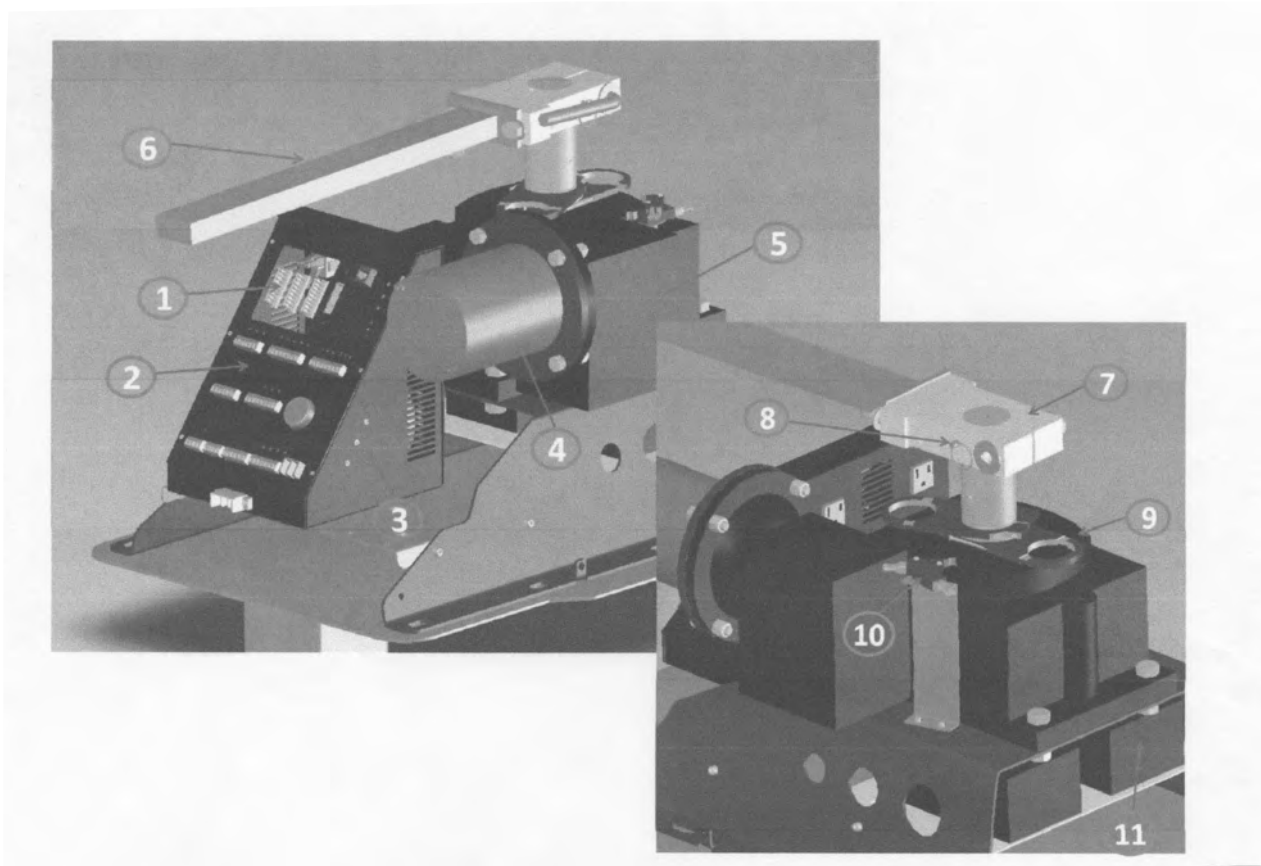
BLOW UP, MODEL 760 LOAD BEARING BOX



POS	PART NO	DESCRIPTION	QTY	LIST PRICE
1	7276005	Load Bearing Box Cover	1	135.00
2	7309095	Splined Collar	1	32.00
3	7093225	Dust Cover	1	25.00
4	7095075	Seal (Top)	1	20.00
5	3907535	Bushing Group upper 760	1	126.00
6	7090765	O-Ring Upper Bushing	1	7.00
7*	7192475	RAM Pinion New Style '05	1	160.00
8	3907525	Bushing Group Lower 760	1	91.00
9	4900985	Load Bearing Box	1	539.00
10	7280885	Mounting Bar 760	2	44.00
11	N/A	Protective Cover for Gear	1	N/A
12	N/A	8x35 5931 8GZ	2	N/A
13	7099575	Gasket	1	9.00
14	N/A	Screw Box Cover	1	N/A

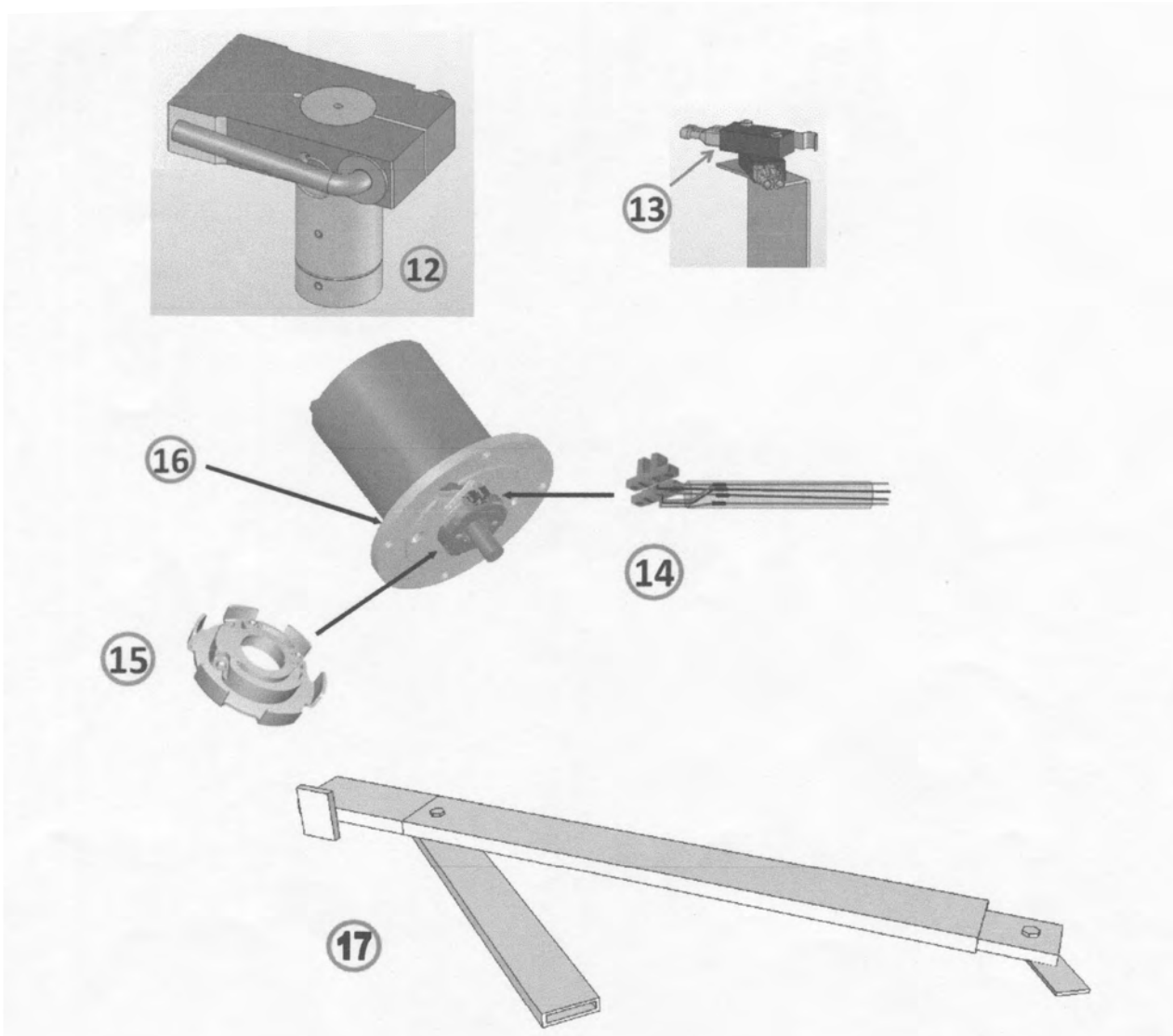
* 7192475 RAM Pinion '05 New Style... 160.00

Parts Blow Up, Model FSW 900



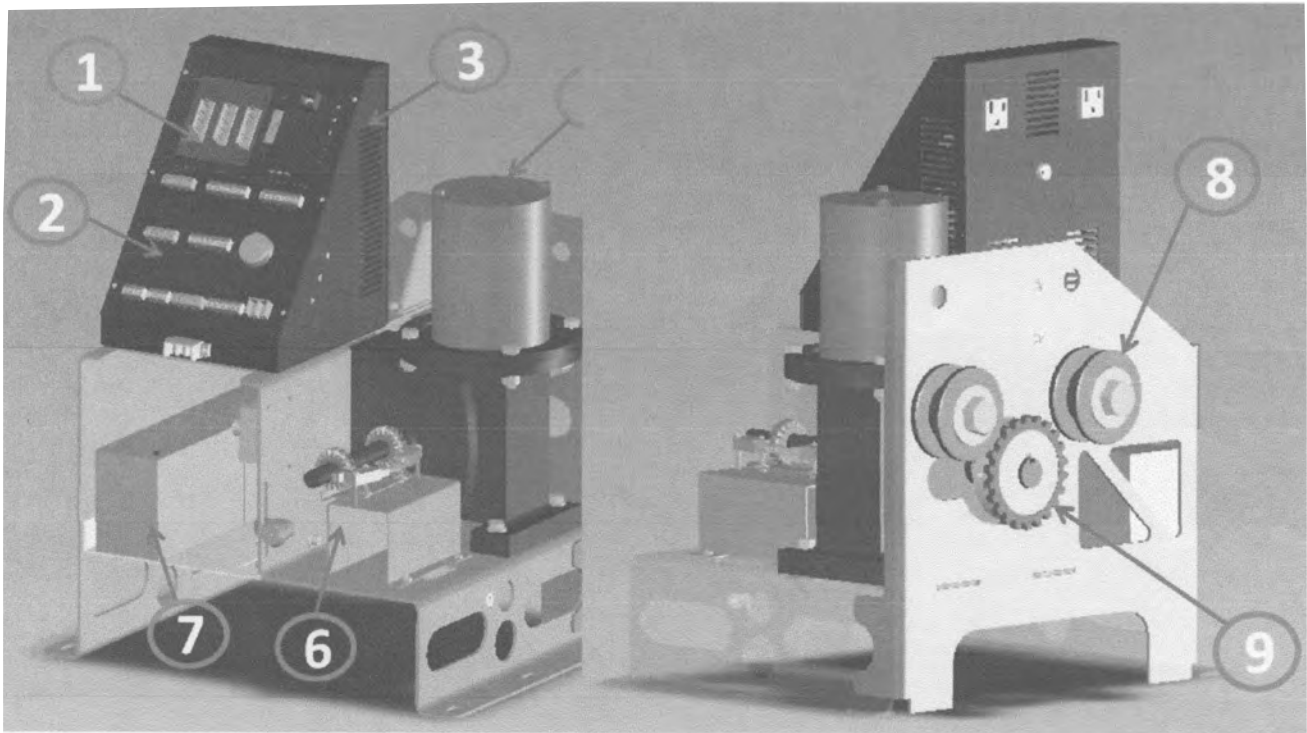
Part	Part Number	Description	List Price
01	GC3101	Controller PCB with Heat Sink	\$518
02	GC3100	Controller PCB, Heat Sink and Faceplate Assembly	\$589
03	GC3000	Controller Assembly (No PCB, Faceplate)	\$1,178
04	Motor-0500-24	Motor - 500W, 24DC	\$177
05	SW-0020	Gearbox 900:1	\$825
06	SW-004	Weld Arm Connector with 12" Bar	\$153
07	SW-003	Swing Arm Connector	\$130
08	SW-0011	Clutch Alignment Pin	\$12
09	SW-0010	Swing Limit Cam	\$11
10	SW1000+	Limit Assembly Kit	
11	3540	Battery (single)	\$68

Parts Blow Up, Model FSW 900



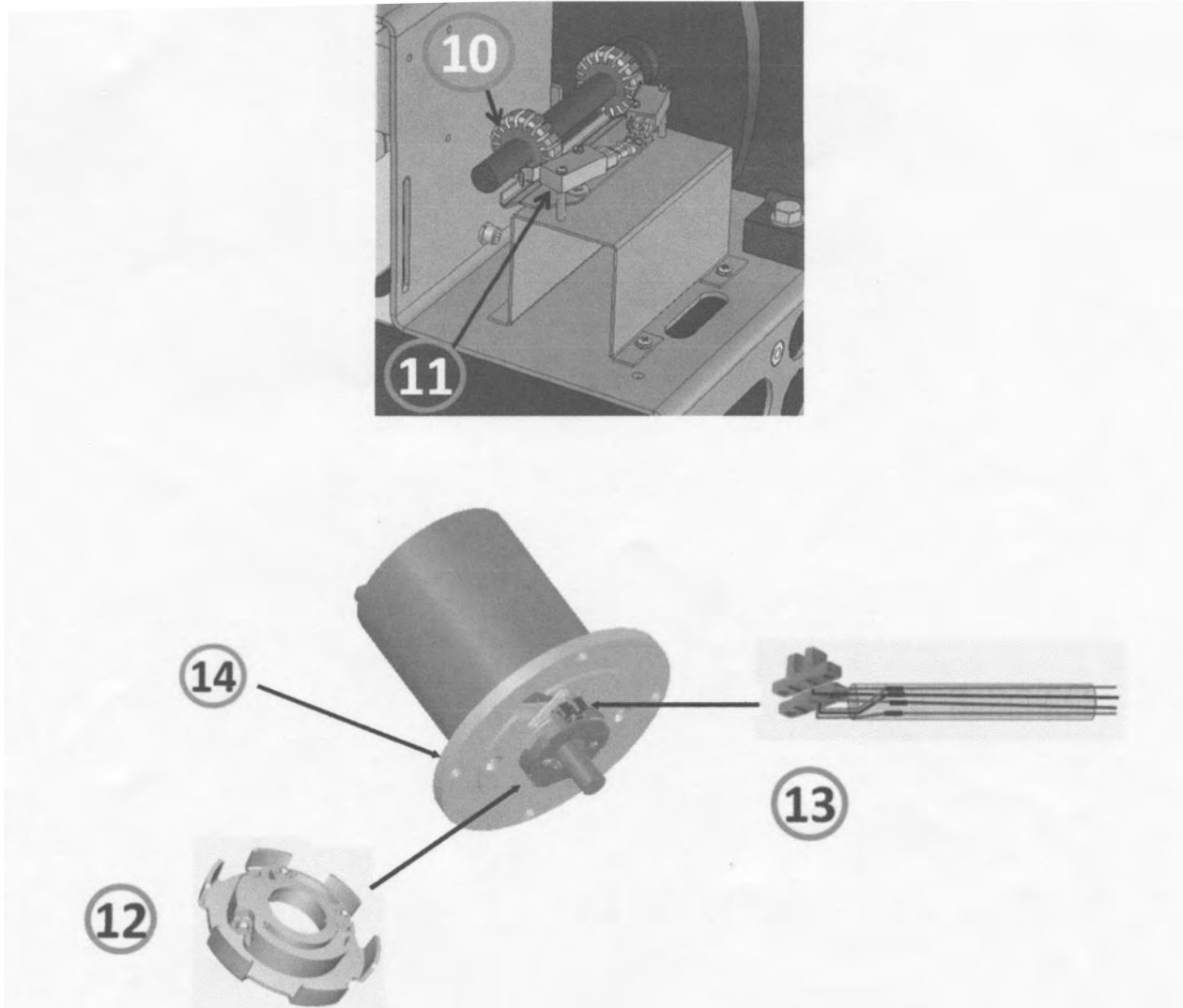
Part	Part Number	Description	List Price
12	SW003+	Clutch Assembly Kit	\$169
13	Switch-0100	Limit Switch	\$9
14	Wire 1101SK	Sensors Wire Assembly with Screws	\$59
15	AAA0450	Sensor Cup Assembly	\$18
16	AAA-0402	Motor Adapter Plate	\$82
17	SW-0200	Swing Arm Assembly	\$137

Parts Blow Up, Model FSL 700



Part	Part Number	Description	List Price
01	GC3101	Controller PCB with Heat Sink	\$518
02	GC3100	Controller PCB, heat Sink and Faceplate Assembly	\$589
03	GC3000	Controller Assmby (No PCB, Faceplate	\$1,178
04	Motor-0500-24	Motor - 500W, 24VDC	\$177
05	SL-0020	Gearbox 15:1	\$554
06	SL-1000+	Limit Stand Assembly with Switches	\$62
07	3540	Battery (Single)	\$68
08	SL-1001	Chain Idler Assembly	\$36
09	SL-002	Chain Sprocket	\$41

Parts Blow Up, Model FSL 700



Part	Part Number	Description	List Price
10	SL-0010	Limit Nut	\$4
11	Switch-0100	Limit Switch	\$9
12	AAA0450	Sensor Cup Assembly	\$18
13	Wire1101SK	Sensors Wire Assembly with Screws	\$59
14	AAA-0402	Motor Adapter Plate	\$82

Limited Warranty

To the original purchaser only: FAAC International, Inc., warrants for the time period indicated in each product's description (or product title page) from the date of invoice, the gate operator systems and other related systems and equipment manufactured by FAAC S.p.A. and distributed by FAAC International, Inc., to be free from defects in material and workmanship under normal use and service for which it was intended provided it has been properly installed and operated. FAAC International, Inc.'s obligations under this warranty shall be limited to the repair or exchange of any part or parts manufactured by FAAC S.p.A. and distributed by FAAC International, Inc. Defective products must be returned to FAAC International, Inc., freight prepaid by purchaser, within the warranty period. Items returned will be repaired or replaced, at FAAC International, Inc.'s option, upon an examination of the product by FAAC International, Inc., which discloses, to the satisfaction of FAAC International, Inc., that the item is defective. FAAC International, Inc. will return the warranted item freight prepaid. The products manufactured by FAAC S.p.A. and distributed by FAAC International, Inc., are not warranted to meet the specific requirements, if any, of safety codes of any particular state, municipality, or other jurisdiction, and neither FAAC S.p.A. nor FAAC International, Inc., assumes any risk or liability whatsoever resulting from the use thereof, whether used singly or in combination with other machines or apparatus.

Any products and parts not manufactured by FAAC S.p.A. and distributed by FAAC International, Inc., will carry only the warranty, if any, of the manufacturer. This warranty shall not apply to any products or parts thereof which have been repaired or altered, without FAAC International, Inc.'s written consent, outside of FAAC International, Inc.'s workshop or altered in any way so as, in the judgment of FAAC International, Inc., to affect adversely the stability or reliability of the product(s) or has been subject of misuse, negligence, or accident, or has not been operated in accordance with FAAC International, Inc.'s or FAAC S.p.A.'s instructions or has been operated under conditions more severe than, or otherwise exceeding, those set forth in the specifications for such product(s). Neither FAAC S.p.A. nor FAAC International, Inc., shall be liable for any loss or damage whatsoever resulting, directly or indirectly, from the use or loss of use of the product(s). Without limiting the foregoing, this exclusion from liability embraces a purchaser's expenses for downtime or for making up downtime, damages for which the purchaser may be liable to other persons, damage to property, and injury to or death of any persons. Neither FAAC S.p.A. nor FAAC International, Inc., assumes nor authorizes any person to assume for them any other liability in connection with the sale or use of the products of FAAC S.p.A. or FAAC International, Inc. The warranty hereinabove set forth shall not be deemed to cover maintenance parts, including, but not limited to hydraulic oil, filters, or the like. No agreement to replace or repair shall constitute an admission by FAAC S.p.A. or FAAC International, Inc., of any legal responsibility to effect such replacement to make such repair, or otherwise. This limited warranty extends only to wholesale customers who buy directly through FAAC International, Inc.'s normal distribution channels. FAAC International, Inc., does not warrant its products to end consumers. Consumers must inquire from their selling dealer as to the nature and extent of that dealer's warranty, if any.

This warranty is expressly in lieu of all other warranties expressed or implied including the warranties of merchantability and fitness for use. This warranty shall not apply to products or any part thereof which have been subject to accident, negligence, alteration, abuse, or misuse or if damage was due to improper installation or use of improper power source, or if damage was caused by fire, flood, lightning, electrical power surge, explosion, wind storm, hail, aircraft or vehicles, vandalism, riot or civil commotion, or acts of God.

Terms of Sale

Important Notice

Prices shown in this list are based on the availability of items when the price list was printed. Prices are subject to change without notice. A minimum billing charge of \$25.00 net plus shipping cost will be billed for all orders received. Whenever possible, we suggest that you combine orders for all parts to surpass the minimum cost. Product delivery time is subject to product availability. We are not responsible for any damages caused by a delay in shipping or product availability.

Pricing

All quoted prices for products are discounted according to the list price provided in our most current pricing manual. Discounts quoted do not apply to special order items. Contact the factory for Dealer/Distributor pricing on special orders.

Credit Terms

We are pleased to offer one of the most generous discount terms available in the industry.

Our credit terms are net 30 days. Credit terms apply only to open accounts in good standing and only to merchandise. Balances remaining unpaid after the 30th day are subject to a 1.75% per month finance charge. This is an annual cost to you of 21%. We compute the finance charge by applying the 1.75% rate to the amount of the invoice past due for every month it is past due. The balance of your account is determined by taking the balance you owed at the end of the previous billing cycle and subtracting all payments and credits received during the current billing cycle. Accounts past due forty-five (45) days will be placed on credit hold until the account is brought up-to-date. Accounts over sixty (60) days past due that have no payment arrangements will be considered delinquent and subject to collection remedies. The dealer/distributor will be responsible for all collection expenses. A current signed credit application must be provided before an account is opened, subject to credit approval.

Delivery

All prices are quoted F.O.B. our factory. The purchaser is obligated to submit claims for damages or shortages of freight directly to the freight carrier within 30 days when due to carrier neglect.

Material Returned for Credit or Repair

Goods may be returned for credit or exchange under certain conditions. You must contact the factory for instructions and an authorization number. Merchandise returned for credit must be current models, unused, and uninstalled - in new condition. Freight must be prepaid on all authorized returns to FAAC International, Inc. The repair or replacement of product and parts is subject to availability, and repair time is not guaranteed. We may have loaner operators available, and they are subject to rental charges. All damages to loaner operators are the responsibility of the Dealer/Distributor. Repaired or replaced parts carry a 90-day warranty. A 15% restocking charge will be applied to goods returned for credit. Goods returned for repair will be handled immediately when the following conditions exist:

1. Name and address of sender are enclosed with material.
2. The authorization number is clearly visible on the exterior of each package returned.
3. A brief description of the problem and the requested repair is included with the shipment.

We will not be responsible for poorly packaged equipment. Shipments of 70 lb or less should be shipped via United Parcel Service.



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