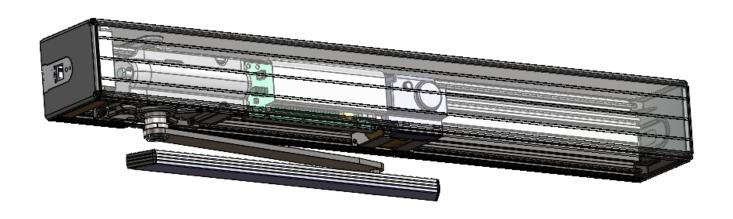


A copy of the Installation Manual has been provided with your order. For additional copies, please download and print from; recorddoors.com>documents>8100



The manufacturer's specifications for this product require the installation to be approved by an AAADM certified inspector.



The record-usa 8000/8100 Operator has been carefully designed, built, and tested to provide years of service.

The life of the operator package is directly related to how carefully the installation is accomplished and how accurately the instructions are followed. Installation of this operator package should be done by properly trained and knowledgeable installers with a knowledge of local code requirements and the requirements of ANSI A156.10 Standards for Power Operated Pedestrian Doors and A156.19 Standards for Low Energy and Power Assisted Pedestrian Doors. The authorized service / installation dealer must perform all measurements for forces, speeds, and times to insure proper and safe operation.

Verify that the door may be opened without power applied to the unit.

Verify that the force required to open the door with the power disconnected shall not be greater than 50 pounds.

Verify that the door does not close with a force greater than 40 pounds at the latch side of the closing stile, and does not close the final 10 degrees in less than 1.5 seconds.

record-usa is not responsible for improperly adjusted or maintained automatic doors or activation / safety systems and assumes no responsibility for damages caused by automatic door systems that have not been properly installed, tested, and adjusted.

OWNER INFORMATION TO BE PROVIDED BY THE DISTRIBUTOR / INSTALLER

- * After the installation instruct the owner on the safe operation of the door.
- * Location and proper use of the power switches.
- * Location of the main cutoff breaker.
- * Necessary warnings not covered in general instructions.
- * Owners Manual and Daily Safety Checklist.
- * Phone number(s) for the local servicing dealer.
- * What to do in the event that a dangerous situation should occur, and how to shut the doors down and call for service.

READ INSTALLATION INSTRUCTIONS BEFORE INSTALLING.

The sequence of installation and adjustment is in order, however some sections will not apply. Review this instruction manual and determine those sections that do apply. Be sure all doors swing freely and clear all objects before attaching arms.

Special attention needs to be given to installations with parallel and slide arms when an adjacent wall is perpendicular to the door frame.

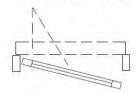
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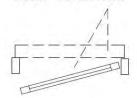


OPERATOR HANDING IDENTIFICATION

LHR STD. ARM







LH TRACK ARM W/PANIC



LH TRACK ARM

RH TRACK ARM

RH TRACK ARM W/PANIC



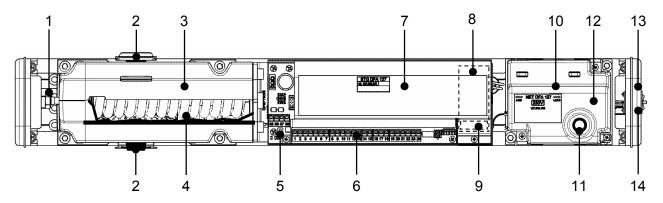






Product Description

The record Series 8100 Swing Door Operator is a power-open, spring-close unit providing full functionality conforming to either ANSI A156.10 or ANSI A156.19 requirements. The selfmonitoring microprocessor-based control maintains precise regulation throughout the door open / close cycle. Two operators can be connected together in a master/slave configuration providing synchronized operation. Safety is additionally increased by the use of a redundant force limitation.



- Adjusting screw for spring tension
- 2 Output Shafts for Arms & Stop
- **Drive Unit** 3
- Closing Spring
- Multifunction Pushbutton / Control
- Terminal Blocks for I/O 6
- Microprocessor Control

- Motor Drive Circuit Board
- Slide switch S1 (rotating direction)
- 10 Power Supply
- 11 Fuse (2.0A, 5X20mm, Slo-Blo)
- 12 Power Supply Circuit Board
- 13 On / Off / Open Rocker Switch
- 14 Status LED and Reset Pushbutton



Drive Arms

Three types of drive arms are available:

The Standard Arm provides the most flexibility – Outswing (push) reveals to 12" Inswing (pull) reveals up to 6"

The Slide Track Arm -Inswing (pull) reveals to 6" Outswing (push) reveals to 3" 102-127815969: CL 102-127816107: DB 102-127816028: CL 102-127816110: DB

Left Hand Right Hand 102-127816079: CL 102-127816078: CL 102-127816112: DB 102-127816111: DB

The Offset Slide Track Arm -Suitable for center-pivoted doors with breakout capability; Allow double-egress installations in a common header.



An extension adapter is included with each arm assembly, connecting the drive arm to the operator output shaft. The Standard Arm is provided with a 35mm adapter which mounts the drive arm approximately 1-1/8" below the bottom of the header. The Slide Track Arm includes a 20 mm adapter, mounting the drive arm approximately 1/2" below the bottom of the header. Optional adapters are available that will increase the distance below the header to approximately 1-3/4" (50mm - P/N 102-127816016/102-127816087)(CL/DB), or approximately 3" (80mm - P/N 102-127816017/102-127816089). For double-egress installations, a standard arm, offset arm a 50mm adapter for the standard arm will be provided, accommodating a double-rabbet frame.

Layouts for the different arm / installation configurations are attached. Check the arm assemblies prior to unit installation and verify dimensions and clearances.

Instructions to the Installer

This unit is to be installed and commissioned by a trained technician with knowledge of ANSI A156.10 and A156.19 Standards for Power Operated Doors, applicable local codes, and record-USA installation recommendations.

After installation, verify the door can be opened without power applied, and the force required to open the door does not exceed 50 pounds-force (222 N).

Information to provided to the owner

The Owners Manual with training and explanation of the daily safety check. Location of the operator control panel (On / Off / Hold Open).

Specific information pertinent to the proper operation of the installation.

Electrical preparation

Before preparing jambs, determine the method and requirements for the electrical wiring involved and whether mats or other type of activation is used.

Power requirements — 115 VAC, 60 Hz, 15 Amp Service.



Mechanical Installation

The door panel must move freely throughout its entire opening and closing rotation. The door frame must provide a stable base, structurally sufficient to support automatic operation. Typically the operator baseplate will overlap the door jambs by 1-1/2".

Verify the installation conditions and select the arm configuration that most closely matches the installation. As a general rule, the operator output shaft will mount 4" away from the hinge jamb, measured parallel to the closed door. The door mounted foot on a Standard arm assembly will typically mount 18" from the hinge jamb. For Slide Track arm assemblies, the door mounted track will mount with one end located 4" from the hinge jamb. Consult the attached layout drawings for additional details.

Securely attach the unit baseplate to the door frame; Hex Head Tek Screws are included - #14 X 2" for unit mounting to door frame, and #10 X 1-1/2" for Arm mounting to door.

Typically, the drive arm is attached to the operator with the unit in the closed position. Additionally, the arm is positioned on the splined output shaft with a slight pre-load, pushing the door against the door closed stop. The spline provides incremental adjustment of 6°; typically, one spline index for pre-loading is sufficient.

The drive arm is attached to the lower operator output shaft using the extension adapter supplied with the arm assembly. Consult the appropriate arm configuration for proper arm positioning on the shaft (The most common application – an outswing / push configuration using the Standard arm assembly – has the drive arm mounted to the shaft perpendicular to the closed door.) When securing the arm on the shaft, insure the extension adapter has seated properly on the shaft spline. If not seated correctly, slippage of the arm on the shaft may occur. For Track arms, install the arm with the outer end of the arm against the closed door. Do not tighten the bolt; using the arm, pull the operator open and during the slow, controlled closing, insure the splines seat correctly and tighten the 6mm socket head bolt.

Verify all fasteners are securely tightened.

Operator Swing Direction

If the operator does not close slowly (with either arm), the handing selection switch should be changed. It is located behind a slot in the sheet metal cover for the operator control –

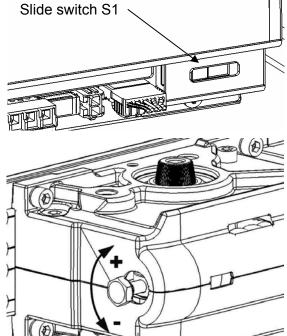
With no power applied, the operator should be capable of being easily pushed open and when released, will close the door at a controlled speed.

Closing Spring Adjustment

The closing force provided by the spring is adjustable.

Do not adjust the force so low that the door will not consistently close under spring power.

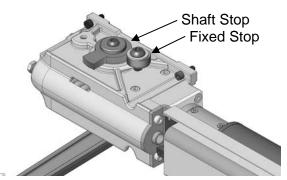
On a typical 3'-0" door with a standard arm assembly, the spring closing force can be adjusted from less than 5 pounds force to more than 20 pounds force, measured at the leading edge of the door.





Open Stop

The unit is provided with an adjustable full open stop. Rotate the door to the full open position; mount the Shaft Stop onto the upper output shaft and against the Fixed Stop. The spline of the output shaft allows indexing in 6° increments. For finer adjustment, the Fixed Stop is slightly eccentric; loosen and rotate until the desired stop location is achieved and re-tighten.



For installations where severe physical abuse may occur (such as extreme wind conditions), it is suggested a floor mounted stop be installed at full open. Additionally, the operator full open stop can be set at 100 degrees or more of opening, and program the operator to electronically stop at the 90 degree full open position. This can be accomplished by manually stopping the door at 90 degrees during a calibration run, or by reducing the opening angle under the parameter "Drive / Opening angle" (using an FPC902 Hand Terminal or a Display Control Panel).

Power Supply Connection

Connect 115VAC, 60 Hz, 10A, to Power Supply terminal strip

115VAC "Hot" (Line) to "L" terminal; 115VAC "Neutral" to "N" terminal

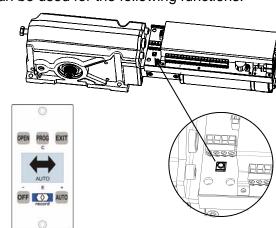
The second "L" and "N" terminals provide a convenient junction for dual operator systems.

Proper grounding must be provided for the unit. A grounding tab and screw are located adjacent to the Power Supply terminal strip.

The power supply cover must be installed after connecting 115VAC primary service.



- 1 flash of the red LED will actuate a standard open cycle (if the rocker switch is on).
- 3 flashes of the red LED will initiate a calibration run.
- 4 flashes of the red LED will initiate the parameter adjust mode of a Display Control Panel. (If on board)
- 8 flashes of the red LED will reset the unit's parameters to factory defaults.
- 15-17 flashes will cause the unit to reset without affecting any of the field set parameters.

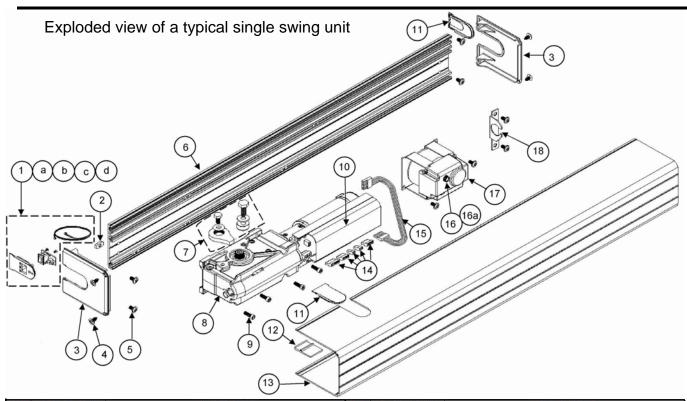


- + = Scroll down -= Scroll up
- E = Enter or Select C = Clear or Cancel

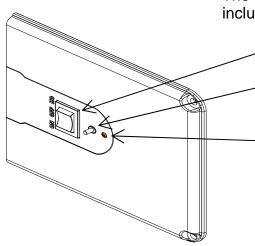
After completion of the mechanical installation and prior to adjusting the parameters, always initiate a calibration run by pressing and holding the pushbutton for 3 flashes of the red LED. This will insure proper door operation by calibrating the unit to the installation conditions.

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ITEM	PARTNUMBER	DESCRIPTION	ITEM	PART NUMBER	DESCRIPTION
1	4-80-0802	KIT, ROCKER SWITCH, CABLE, INSERT, & SCREWS	11	6-80-9003	INSERT, PLAIN, COVER & END CAP
2	9-99-3507	NUT, SQUARE, 1/4-20	12	6-80-9002	INSERT, SHAFT CUTOUT, COVER
3	6-80-9001	END CAP, COVER	13	5-80-4003	COVER, 6100/8100 CL-DB
4	81-3114-0412-DB	SCREW, 8x1/2" Ph. PH SMS BL OXIDE	14	4-80-0801	KIT, ELECTRICAL CONNECTORS, J1 - J6
5	81-0017-2658	SCREW, 1/4-20X3/8" ALLEN BH BL OXIDE	15	9-80-0010	HARNESS, ENCODER
6	5-80-4001-MF	PLATE, OPERATOR MOUNTING, 6100/8100	16	9-99-1902	FUSE CAP
7	9-80-0103	MOUNTING SET, HARD STOP ADAPTOR	16a	9-99-1940	FUSE, 2.5 A, 5mm X 20mm
8	9-80-0101	DRIVE MODULE, SERIES 8000 OPERATOR	17	9-80-0102	POWER SUPPLY, 6100/8100
9	81-0014-2666	SCREW 1/4-20X3/4" ALLEN BH, BLK OXIDE	18	4-80-1001	BRACKET, CONDUIT ANCHOR
10	9-80-0108	CONTROL, SERIES 6100/8100 OPERATOR	19	9-80-0009	HARNESS, POWER SUPPLY TO CONTROL (not shown)



The Series 8000 Standard Rocker Switch Control Panel includes:

3 Position Rocker Switch - ON / OFF / OPEN

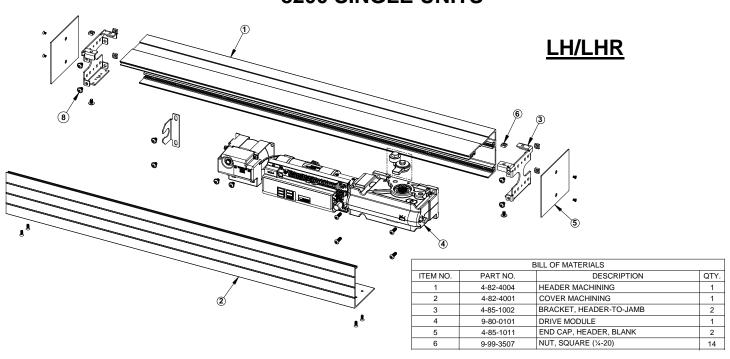
Pushbutton - To reset the operator, press and hold for 8 seconds

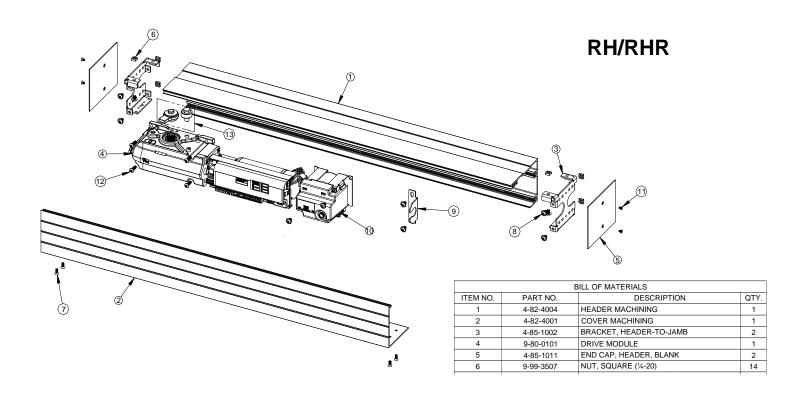
LED (red) - Normally off; flashing indicates either the unit is performing a calibration run, or an error has been encountered.

To clear an error, press & hold the pushbutton for approximately 8 seconds, or until the LED turns off.



8200 SINGLE UNITS



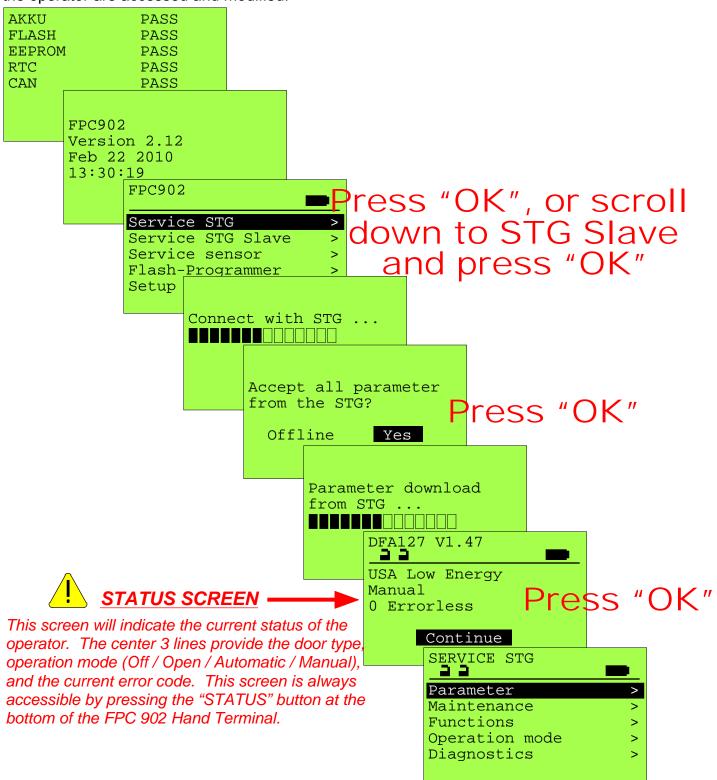


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Servicing the Series 6100 & 8000 with the FPC-902 Hand Terminal

After the operator has been mechanically installed, the arms attached to the door, and 120VAC connected to the power supply, connect the FPC902 Hand Terminal to the operator control. The following sequence of screens will occur. The final screen shown below is the base point from which various settings for the operator are accessed and modified.



The following page indicates suggested parameter configurations for a typical installation. For a detailed description of all parameters, consult the instructions provided with the FPC902.

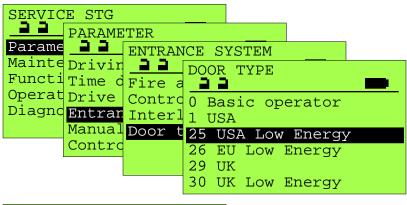
The following documents the suggested sequence of programming the operator:

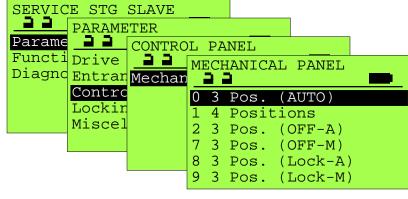
The Series 8000 is shipped configured for a combination operation designated as "USA Low Energy". If manual operation of the door is not desired (with 120VAC power present), this should be changed to "USA", as shown in the sequence at right.

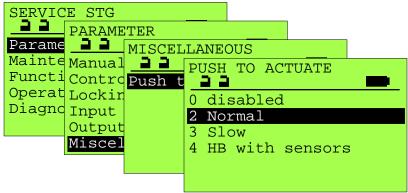
If a pair of operators are to be operated simultaneously, and only one rocker switch is to be used, it should be connected to the master control, and the slave control must be set as shown at right, allowing it to function without a rocker switch.

If automatic operation in response to pushing the door is desired (Push-To-Start), select "Miscellaneous", then "Push to Actuate" and enable by selecting "2 Normal". Note on paired units, this option must be set individually for both operators.

The unit is defaulted to include support for an automatic lock. If one is not provided, select the "Locking" parameter, then "Locking Functions", and change from "3 Always locked" to "1 Night locked" to eliminate the delay before opening.









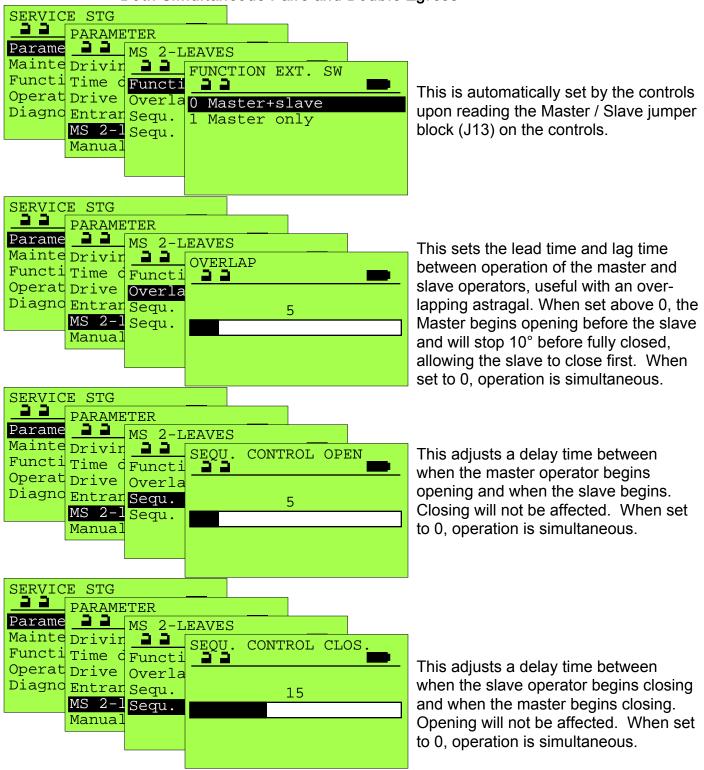
The unit(s) are now ready to be placed into operation. Turn the control panel "on", press and hold the Control Button on the door control for 3 blinks of the adjacent LED. This will initiate a calibration cycle of the operator. After a few seconds the operator should open slowly, with a short pulse during mid-opening. It should be allowed to complete this cycle without interruption.

Note: Calibration must be performed individually on both operators of a pair. See page 10.

The Series 6100 and 8000 Instructions included with the FPC-902 Terminal will have a complete listing of the screens, options, and adjustments available for this operator.



Screens Available when synchronizing two operators Both Simultaneous Pairs and Double Egress



When ordered as a dual synchronized pair or a double egress, the operators are factory wired and parameters preset. If any changes are made, the following setup sequence is suggested - Insure Jumper J14 is set to M1 on the master unit and set to S1 on the slave unit. Apply power to both units, then press and hold the blue Control button on the master control for 8 flashes of the red LED (reset to factory defaults). Next press and hold the Control button for 8 flashes on the slave control. Return to the master unit and press & hold the Control button for 3 flashes of its red LED (initiate a calibration run). Finally, press & hold the button for 3 flashes on the slave control. The units should now be configured for synchronous operation, and with the above parameters set to 0 providing simultaneous operation. Note: If only one rocker switch is used, it is to be connected to the master control, and the slave control parameter CONTROL PANEL / MECHANICAL PANEL should be set to 0 3 Pos. (AUTO).





Full Power & Low Energy "Knowing Act" doors



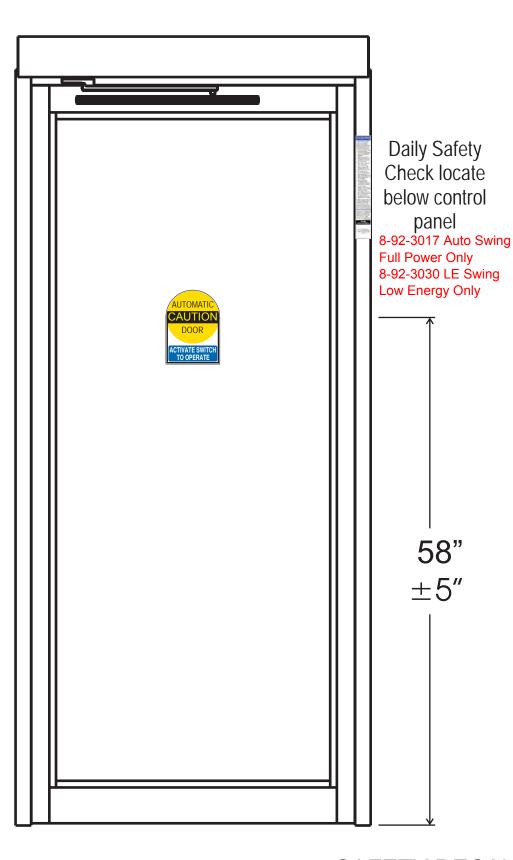
Full Power - Swing Side, 2-Way Traffic; Low Energy - Sensor Activation



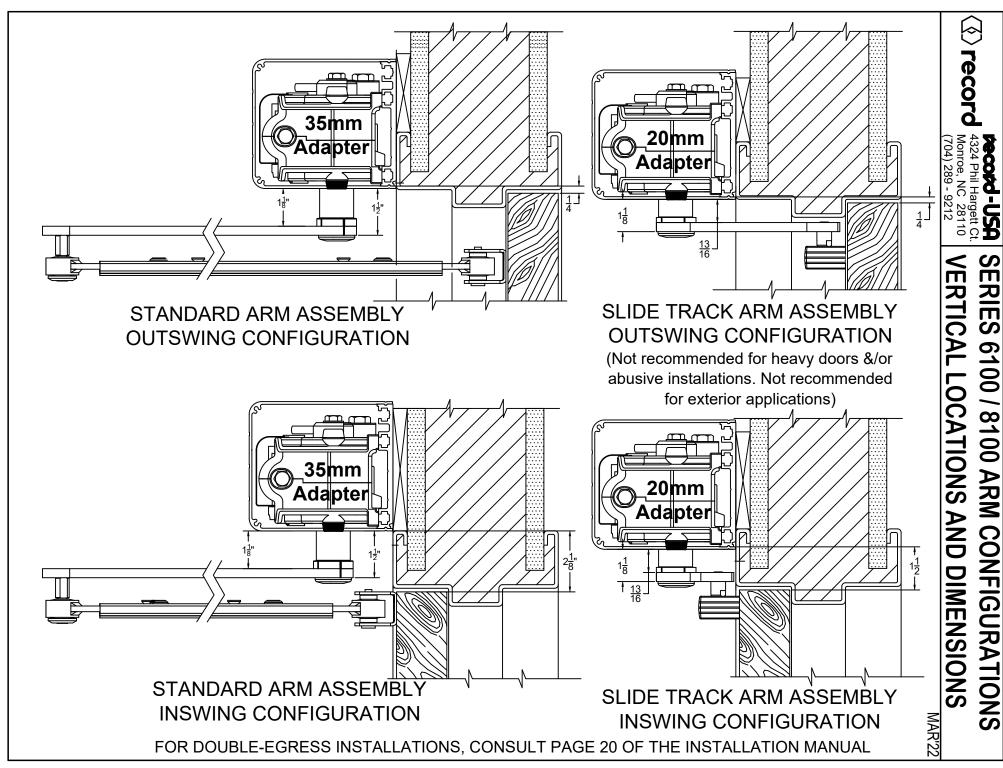
Full Power Approach Side



Full Power Non-Approach Side

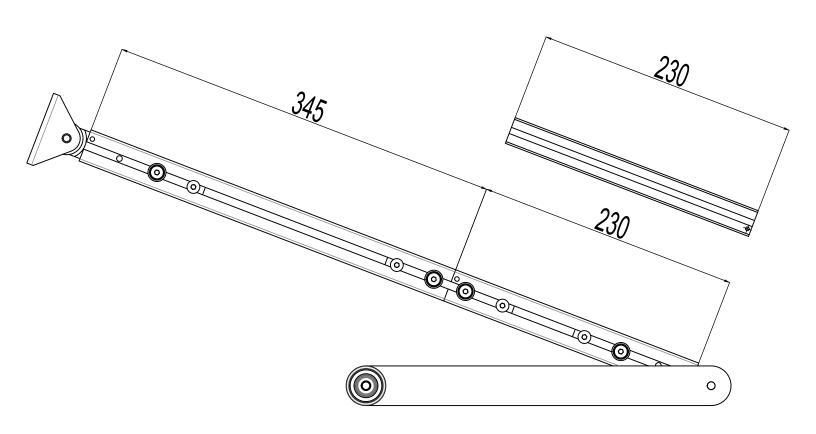


SAFETY DECAL REQUIREMENTS

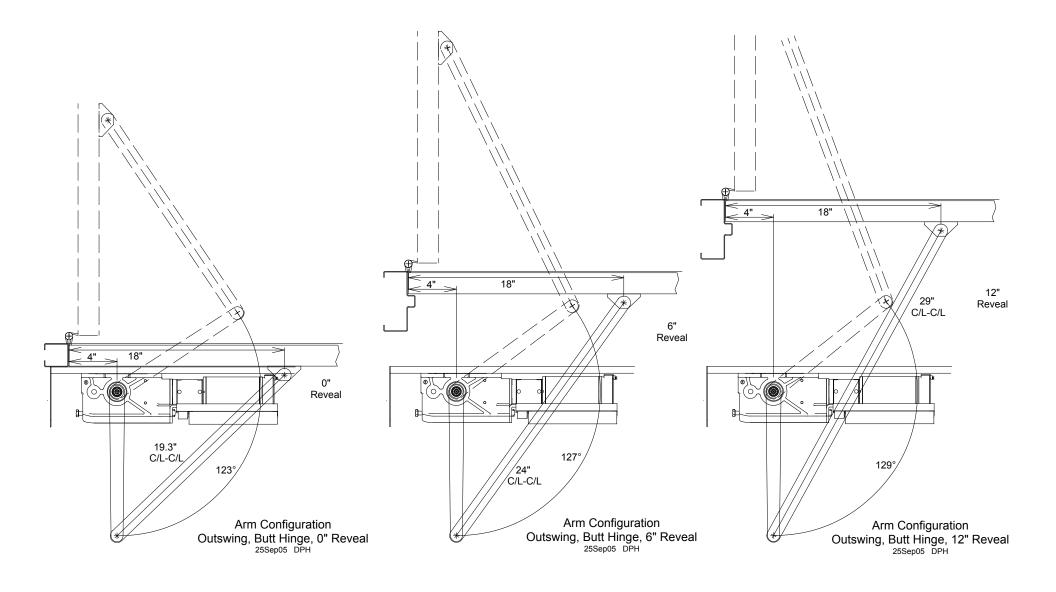




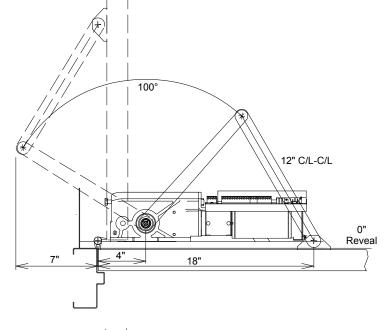
Standard Arm Extension Configurations					
		Reveal Min.	Reveal Max.	Reveal Range	
Standard Arms (CL/BL)	Extensions (230/345 mm)	[in./mm]	[in./mm]	[in./mm]	
	345	0	0.86 / 22	0.86 / 22	
Standard Arm (102-127815969/102-127816107)	230 + 230	0.86 / 22	6.65 / 169	5.78 / 147	
	230 + 345	6.6 / 169	11.9 / 303	5.2 / 134	



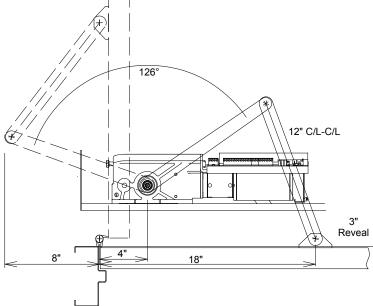
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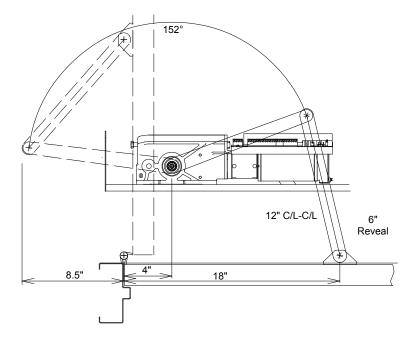




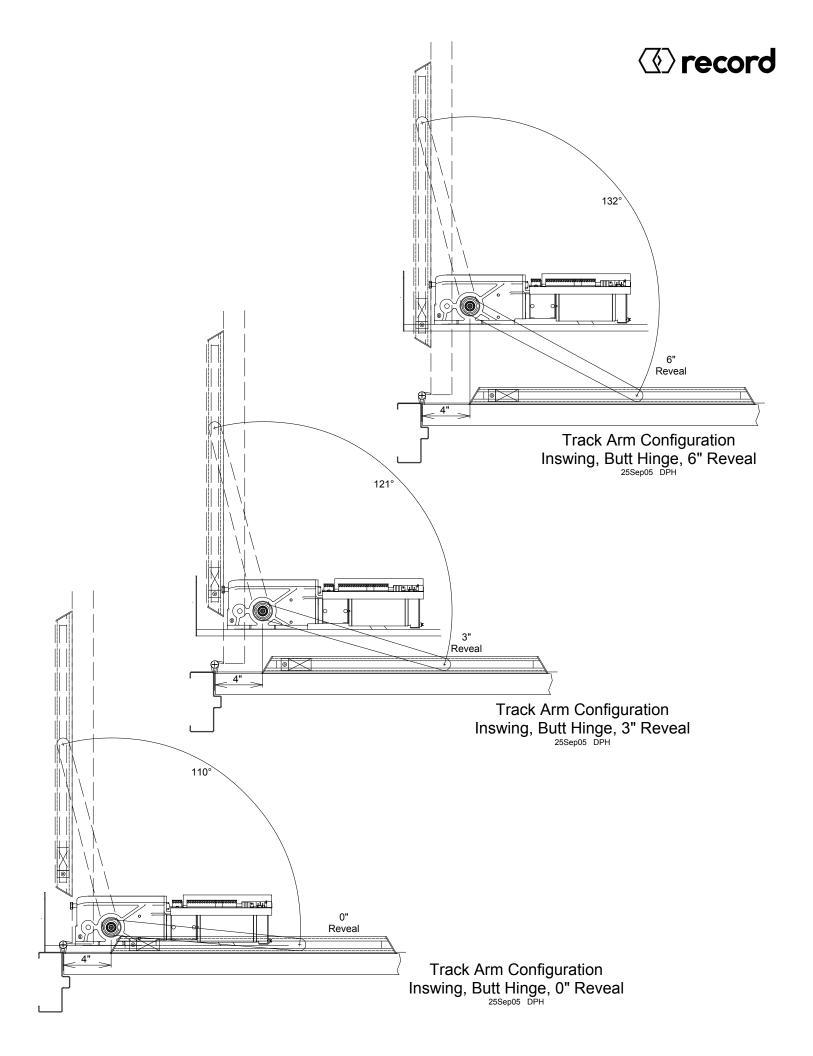
Arm Configuration Inswing, Butt Hinge, 0" Reveal

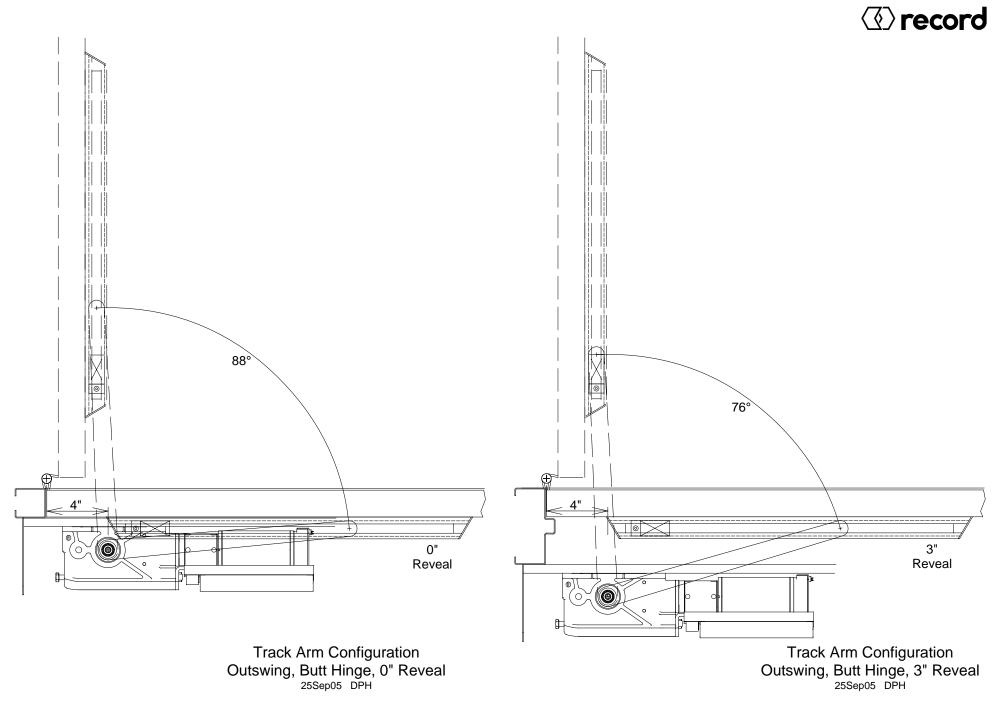


Arm Configuration Inswing, Butt Hinge, 3" Reveal

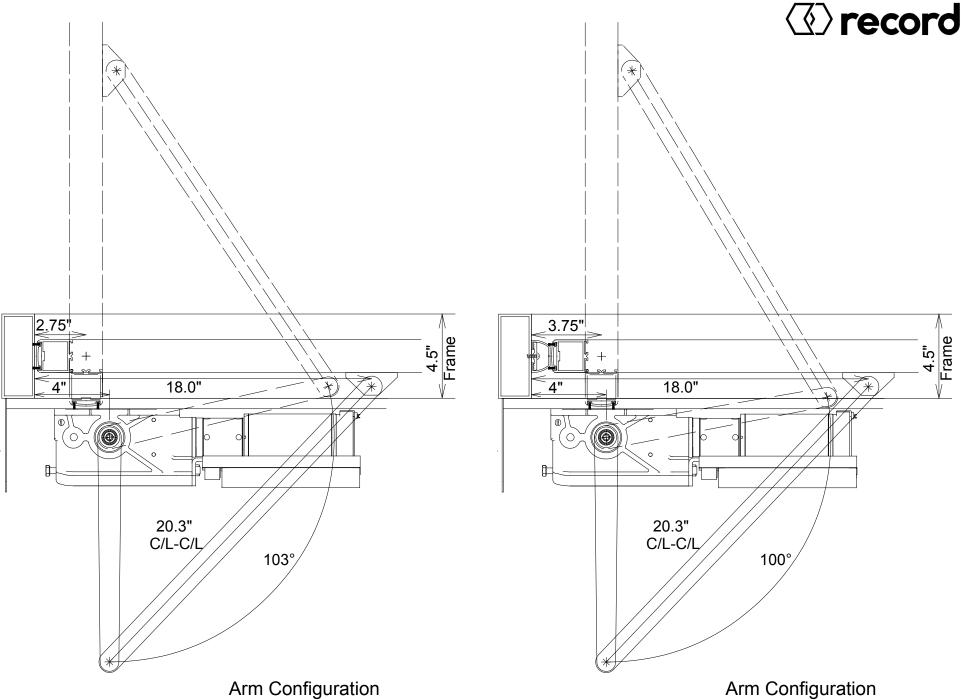


Arm Configuration Inswing, Butt Hinge, 6" Reveal





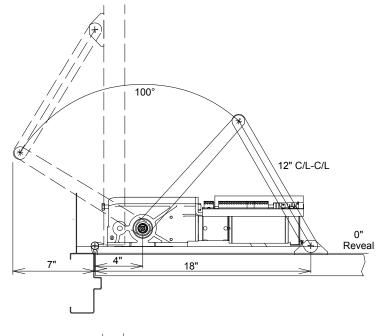
Not recommended for heavy doors and/or abusive installations



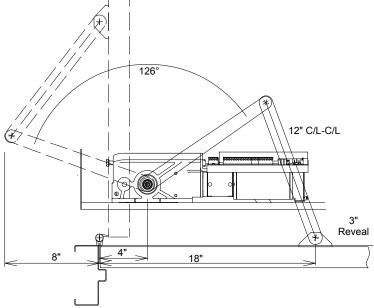
Arm Configuration
Outswing, 2.75"CenterPivot, 4.5"Frame
25Sep05 DPH

Arm Configuration
Outswing, 3.75"CenterPivot, 4.5"Frame
25Sep05 DPH

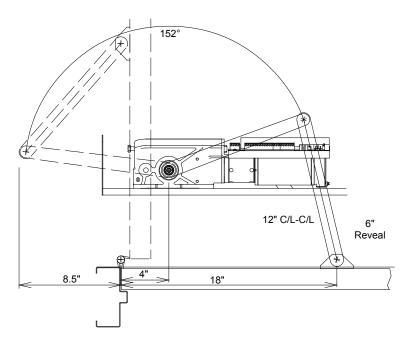




Arm Configuration Inswing, Butt Hinge, 0" Reveal

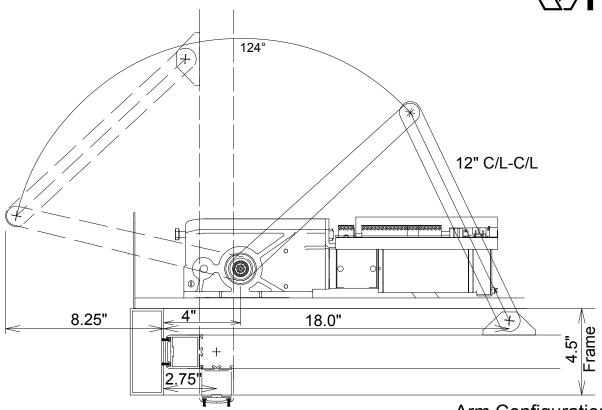


Arm Configuration Inswing, Butt Hinge, 3" Reveal

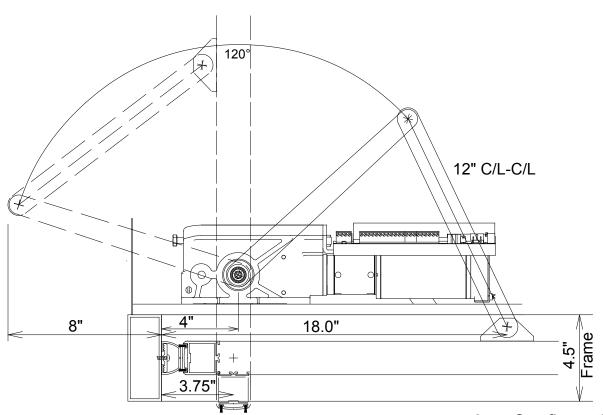


Arm Configuration Inswing, Butt Hinge, 6" Reveal

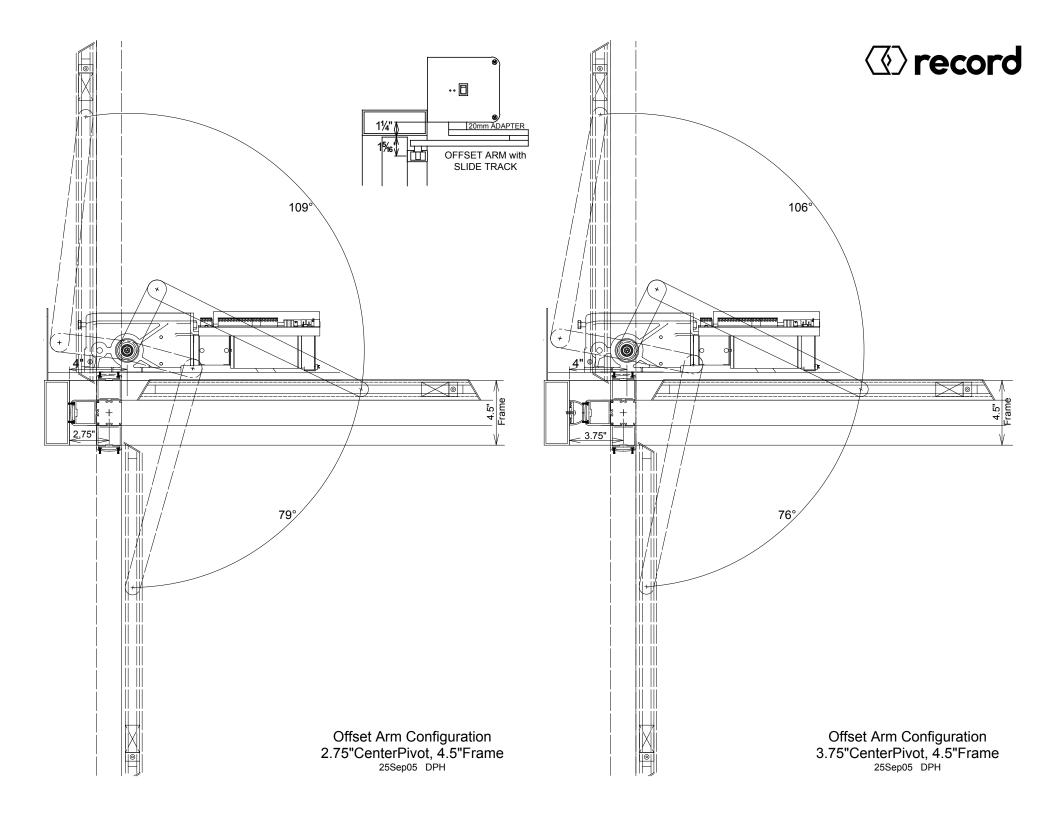




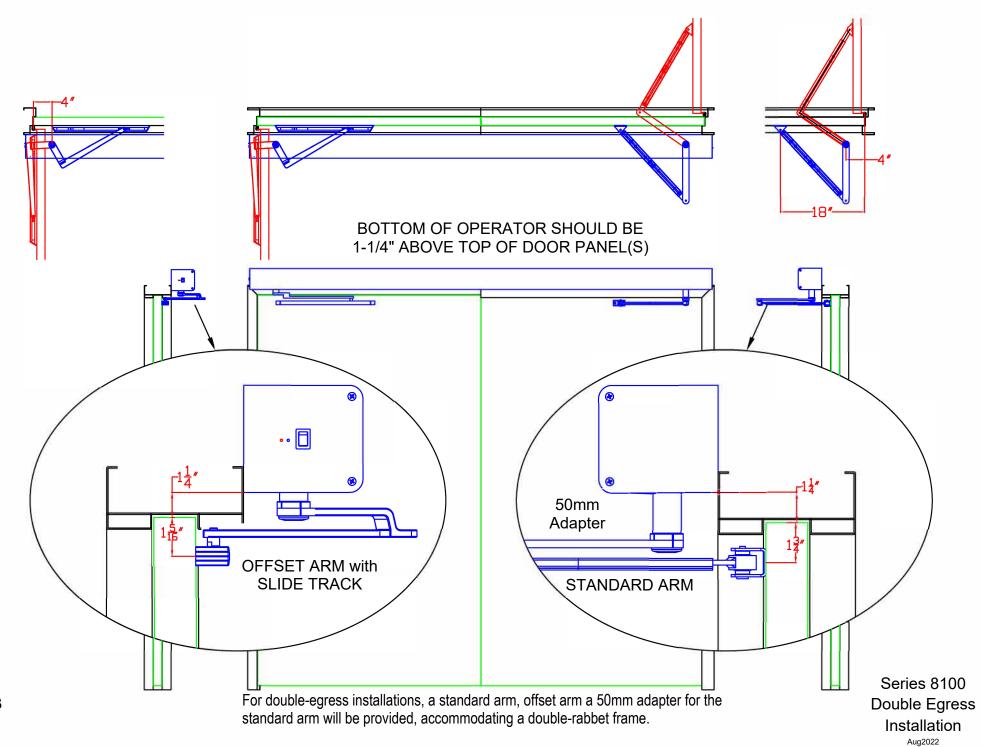
Arm Configuration Inswing, 2.75"CenterPivot, 4.5"Frame 25Sep05 DPH



Arm Configuration Inswing, 3.75"CenterPivot, 4.5"Frame 25Sep05 DPH



(I) record



11 Abbreviations

Α	Α	Width of passage			
•	AKA	Actuating contact "outside"		M MOT	Motor
	AKI AMP	Actuating contact "inside"		MP	General installation plan
	APA	Lamp actuating switch for		N NET	Power supply
		pharmacies		NSK	Emergency fail close contact
	APD	Pushbutton for pharmacies			
	APR APS	locking bar for pharmacies safety device for pharmacies	\circ	OUT	Output
	AS	Connection or general	U	OVA	Optical lock indicator
		schematic diagram	_		
	ATE	Drive unit	R	RAD-A RAD-I	Radar "outside" Radar "inside"
	ATM	Drive module		RED	Redundant module
В	BAT	Battery-pack	_	0.4.4	
	BDE	Control unit	S	SAA	interlock control "exit actuation blocked"
	BDE-E BDE-M	Control unit electronic Control unit mechanical		SAG	Control unit
	BDE-R	Control unit redundant		S-AUS	Interlock control
	BS	BDE with lock		SEA	Interlock control "entrance
C	CAN-H	Serial interface		SEK	actuation blocked" Transmitter head
J	CAN-L	Serial interface		SHE	Safety element, external
	CO48	special standard in France		SÖK	Emergency opening contact
	CPU	microprocessor		SPS SSA	Stored program control SPC
D	D-STA	Double sliding door drive		SSK	Slidebar operator Key-operated contact
	DUO	heavy door operator		STA	Sliding door drive
F	FEPROM	parameter storage		STD	Socket
_	ELS	Light barrier		STG STM	Control unit Control module
	EMK	Receiver head		STP	Control p.c.b.
	EPROM ES	program storage Electrical connection		SUR-A	Time switch contact "exit
dia	agram	Electrical confidention		CLID V	mode"
	E-STA	Single sliding door drive		SUR-V	Time switch contact "locking mode"
	E-STA-L	Single sliding door drive left			
	E-STA-R	Single sliding door drive right	Т	THS	Thermostatic switch
F	F	Length of header		TOS TOZ	Break-out system Door hold-open time
	FEM	Extended functions module		TSA	Telescopic sliding door
	FIRST	redundant operator			operator
G	G	Height of passage		TÜV	Industrial inspectorate
	GTR	Gearbox	U	UMR	Guide pulley
Н	HEA	Manual unlocking "from		μP	Microprocessor
ΟL	ıtside"	G "	V	VAK	Lock indicating contact
in.	HEI	Manual unlocking "from	=	VAL	Locking alarm
1118	side" HES	Manual unlocking switch		VL	Wiring list
		· ·		VRR	Locking device
K	KA	Cable exit	Z	ZLP	Supplementary printed circuit
L	LED	Light-emitting diode			board
	LS	Wiring diagram			

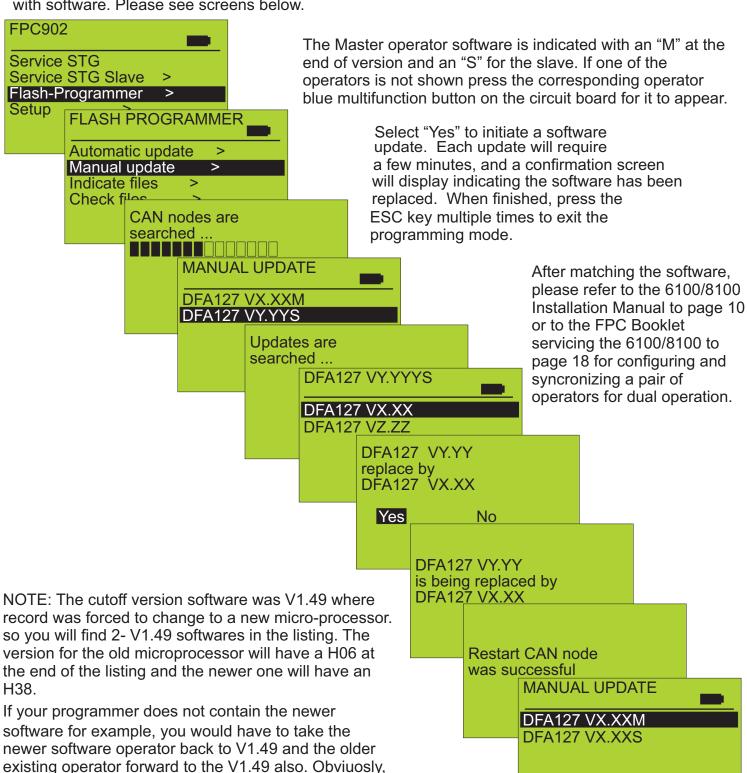
ALARM CODES AND ERROR MESSAGES

ALARM CODES AND ERROR MESSAGES					
No.	Display text	Туре	Res	Comments and possible troubleshooting	
3	AKI > 60 sec. active			Inside radar longer than 60 sec. active and door remains open. Check that no moving objects are activating the radar.	
5	AKA > 60 sec. active			Outside radar longer than 60 sec. active and door remains open. Check that no moving objects are activating the radar.	
6	Unlocking error		Х	Unlocking error: it is impossible to unlock the door. Repeat unlocking attempt after changing the BDE operating mode.	
7	No redundancy test	RED	Х	When no "redundancy" test could happen within the last 24 h or the "redundancy" test was not correctly performed on a door not locked. Reset. Control settings.	
9	Battery fuse open		Х	Battery fuse is disconnected or battery is not plugged in.	
9	Open. unsuccessful			Door does not open or only slowly. SIO might possibly be active or motion be mechanically hindered (e.g. dirt in floor track).	
10	Locking error			Locking error and door remains approx. 10 cm open → depending on parameterising door remains closed. Door might possibly be hindered or locking device might need to be adjusted.	
11	Difference AKI	RED	X	Error in the interpretation of the inside radar signal. Check inside radar.	
12	Low BAT voltage		Х	Battery is missing or is not plugged in. Door works if mains voltage is provided.	
12	BAT capacity		X	Battery no longer meets minimum power requirements. Replace Battery.	
14	VAK defective	DED	Х	Locking device hampered. Adjust door leaves and locking device.	
15	EMERG. OPEN.	RED	V	On RED installations emergency opening switch has been actuated.	
17	Timeout open. time	RED	X	80% of escape route opening not reached within 3 sec. Control with FPC, adjust opening speed. Under "Status", opening time + 400 ms.	
18	VAK closed automatic		Х	Adjust locking device. Make contact (NOC) of locking device is active with Automatic. Locking is set on "wrong" position.	
				Change operating mode on BDE-D to Locked and again to Automatic.	
				Actuate manual unlocking, or rather completely reset it.	
	TOO week lead of	T00 :::			
29	TOS not locked	TOS with DV		TOS not locked (rotary switches) on Locked. Turn rotary switches onto Locked position (above).	
30	TOS locked	TOS with DV		Automatic mode, TOS locked, but door stays in manual mode.	
31	EMERGENCY STOP			Emergency stop key has been pressed or manual unlocking has been actuated.	
33	Error ELS1		X	Light barrier signal is not identified. Inform after-sales service. Calibrate ELS with 2 light pulses.	
36	VOK closed I.		Х	Locking device does not work properly. On BDE-D change operating mode to Automatic and again to Locked. Wrong locked position or VRR faulty.	
37	Motor current		Х	Possibly wrong motor type parameterised or motor is overloaded.	
38	Motor 1 overheat		Х	Motor 1 is too warm. Door works sluggishly.	
39	Overload 24V		Х	24 volts supply for peripheral units is overloaded. Check wiring.	
41	Temp. sensor 1		Х	With motor 1: temperature sensor is faulty or motor cable is disconnected.	
42	Temp. sensor 2		Χ	With motor 2: temperature sensor is faulty or motor cable is disconnected.	
43	Encoder fault		Χ	Encoder or cable is faulty or not plugged in. Reset.	
44 W	T. motor high			Warning message; Time Delays will be extended.	
46	STG defective		Х	Door might work sluggishly. Check for presence of mechanical hindrance. Control unit is defective. Reset. If no success, then replace control unit.	
47	SIO > 60 sec active		X	Door does not open or slides at reduced speed. Check Safety Sensor SIO.	
48	NSK or SOK activated			Remote Alarm has just received. Control safety alarm. Control external signal.	
50	Watchdog fault			Replace control unit.	
51	VOK op n unl.		Х	Repeat locking and unlocking procedures.	
52	No run param.		Х	Connection cable might be missing or is not properly plugged in. Check locking settings. Door must be calibrated (perform teach-in run).	
53	Interrupt. mot. 1		X	Motor is not plugged in. Motor is faulty.	
54 W	Calibrating run		Х	Warning message: Calibration run is perforned.	
55	Power failure			No mains supply. Door works in battery service provided that there is a battery and not	
				"Basic escape route" has been configured.	
57	Interrupt. mot. 2		Х	2nd motor is not plugged in. Motor is faulty.	
59	ELS > 60 sec. active			Light barriers interrupted or disconnected and door remains open. Check that safety barriers are not covered or extremely dirty.	
59	SIS > 60 sec. active		Х	Door does not close. Check Safety Sensor SIS.	
60	EEPROM defective		Х	Load factory settings. 9 light pulses with MFT and reset within 10 seconds. Afterwards language selection has to be	
				displayed on BDE-D. Attention! All programmings are reset. Reconfigure door. Replace control unit if door still fails to function	
61	SSK > 60 sec. active			Key-operated contact stays active. Door remains open. Check Remote Switch (SSK) wiring, connections, and switch.	
62	BDE no priority			BDE is locked e.g. by a clock timer on input SURV/SURA accordingly configured.	
92	STG relay defect.		Х	Change control unit.	
93	Overvoltage 24V		X	Wiring error. Check connections.	
96	EEPROM void		X	Load factory settings. See error 60.	
97 W	Maintenance time exceeded		Х	Warning message: Acknowledge message. Alarm is reset for 13 days. Actual value = 105% of target value of cycles or operating hours.	
98 W	Maintenance due	1	Х	Inform after-sales service and have installation serviced. Set Targets to 0 to avoid alert. Warning message: Acknowledge message. Alarm is reset for a short time. Repeats at 100% Actual value = 95% of	
30 W	manitenance due		^	target value of cycles or operating hours.	
				Inform after-sales service and have installation serviced. Set Targets to 0 to avoid alert	
112	Batt. not charged complet.			Battery is not fully charged. Message disappears from display in case of full charge.	
2132	FPC Can blocked			On a locked door the CAN-Bus will be blocked for devices like the BDE-D(Display) or FPC if they were not connected	
	*******			BEFORE the door was locked. When reading either of the 3 messages from the left column, to unblock, the door needs	
	BDE Can blocked			to be unlocked or the emergency switch has to be activated or the multi-function switch on the control has to be pressed	
				for 1 flash.	
I	ERROR by saving in the STG	1			



PROTOCOL WHEN REPLACING ONE OPERATOR OF A DUAL

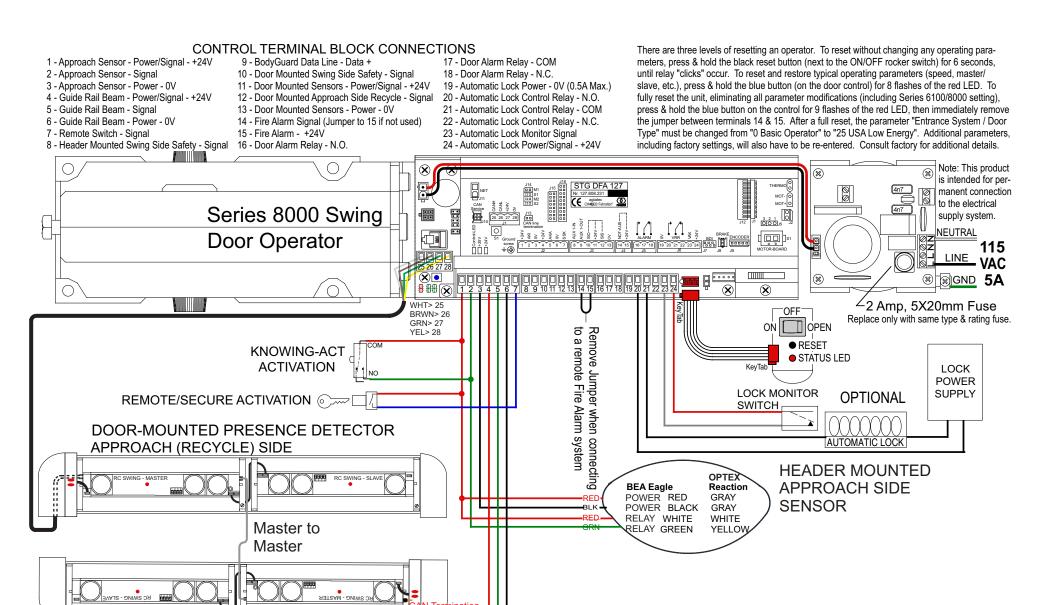
First the software of the 2 operators must match. To see if that is true, please go to FLASHPROGRAMMER and open to find Automatic or Manual Update. The preferred would be Manual Update for it will allow going forward and backward with software. Please see screens below.



For assistance please consult the factory tech support @ 844-366-7526(DOORJAM)

if you have the newer software onboard, you would simply be sure to make both operators match with the

newest software.



Note: For proper operation,

with sensors to be installed

All wiring should be routed

away from moving parts in door operator. Power available from operator for sensors is 24VDC. 1A.

use the harness provided

GUIDE RAIL MOUNTED PHOTOELECTRIC BEAM

SWING SIDE

DOOR-MOUNTED PRESENCE DETECTOR

After connecting & powering on-door sensors, a

calibration cycle is required to learn environment

SERIES 8000 WIRING DIAGRAM with RC SWING CANbus On Door Sensors

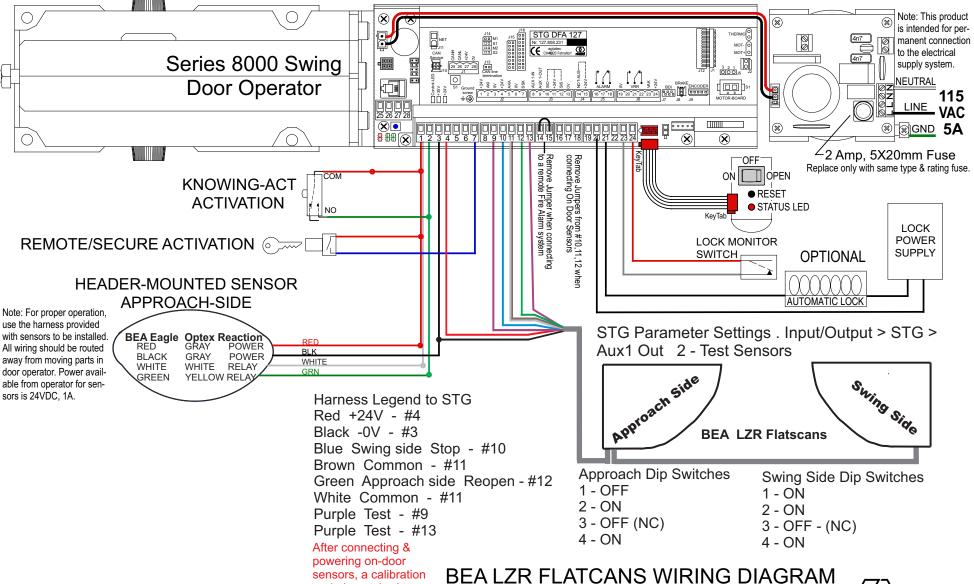


CONTROL TERMINAL BLOCK CONNECTIONS

- 1 Approach Sensor Power/Signal +24V
- 2 Approach Sensor Signal
- 3 Approach Sensor Power 0V
- 4 Guide Rail Beam Power/Signal +24V
- 5 Guide Rail Beam Signal
- 6 Guide Rail Beam Power 0V
- 7 Remote Switch Signal
- 8 Header Mounted Swing Side Safety Signal 16 Door Alarm Relay N.O.
- 9 BodyGuard Data Line Data +
- 10 Door Mounted Swing Side Safety Signal
- 11 Door Mounted Sensors Power/Signal +24V
- 12 Door Mounted Approach Side Recycle Signal
- 13 Door Mounted Sensors Power 0V
- 14 Fire Alarm Signal (Jumper to 15 if not used)
- 15 Fire Alarm +24V

- 17 Door Alarm Relay COM
- 18 Door Alarm Relay N.C.
- 19 Automatic Lock Power 0V (0.5A Max.)
- 20 Automatic Lock Control Relay N.O.
- 21 Automatic Lock Control Relay COM
- 22 Automatic Lock Control Relay N.C.
- 23 Automatic Lock Monitor Signal
- 24 Automatic Lock Power/Signal +24V

There are three levels of resetting an operator. To reset without changing any operating parameters, press & hold the black reset button (next to the ON/OFF rocker switch) for 6 seconds, until relay "clicks" occur. To reset and restore typical operating parameters (speed, master/ slave, etc.), press & hold the blue button (on the door control) for 8 flashes of the red LED. To fully reset the unit, eliminating all parameter modifications (including Series 6100/8000 setting), press & hold the blue button on the control for 9 flashes of the red LED, then immediately remove the jumper between terminals 14 & 15. After a full reset, the parameter "Entrance System / Door Type" must be changed from "0 Basic Operator" to "25 USA Low Energy". Additional parameters, including factory settings, will also have to be re-entered. Consult factory for additional details.



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(record

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- 2 Approach Sensor Signal
- 3 Approach Sensor Power 0V
- 4 Guide Rail Beam Power/Signal +24V
- 5 Guide Rail Beam Signal
- 6 Guide Rail Beam Power 0V
- 7 Remote Switch Signal

wired in series.

used.

- 9 BodyGuard Data Line Data +
- 10 Door Mounted Swing Side Safety Signal
- 11 Door Mounted Sensors Power/Signal +24V
- 12 Door Mounted Approach Side Recycle Signal
- 13 Door Mounted Sensors Power 0V
- 14 Fire Alarm Signal (Jumper to 15 if not used)
- 15 Fire Alarm +24V

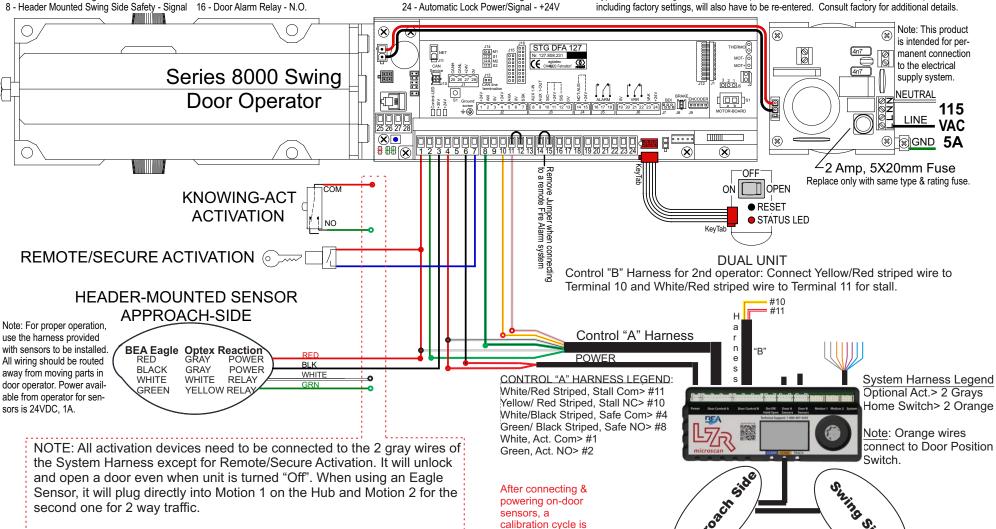
For dual configurations, two home(position) switches must be used and

For Independent Dual Egress configuration, the operators will be setup

as two Master Operators and will require both Control Harnesses to be

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LZR MICROSCAN WIRING DIAGRAM **SERIES 8000 SWING**



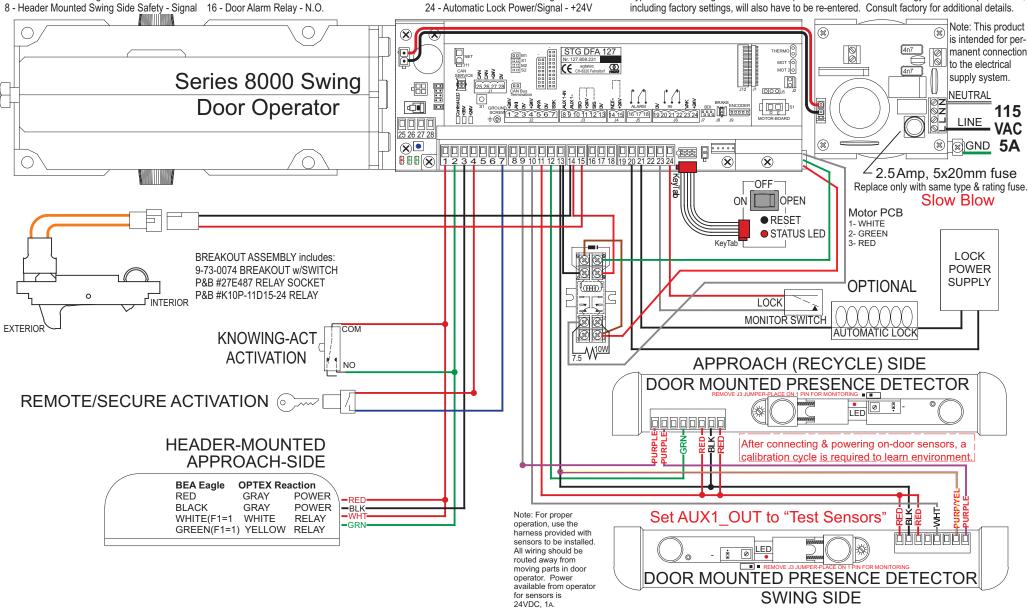
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INSWING

Series 8000/8500 Wiring Diagram w/Frame Mounted Breakout & BEA SSTII (Mon.)

⟨₹⟩ record

