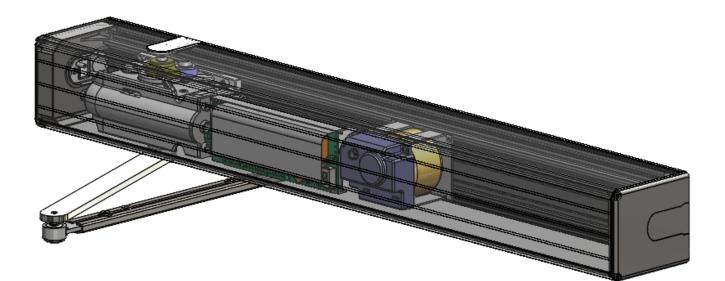
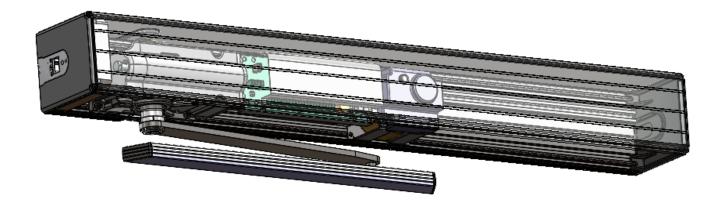


8000/8100/8200 Series Swing Door Operator Installation Instructions



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.



4324 Phil Hargett Court Monroe, NC USA 28110 Http://www.recorddoors.com Part # 8-99-3013 Toll Free: 844-366-7526 Support 844-DOORJAM Fax: 704-289-2024 1

8-22



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.

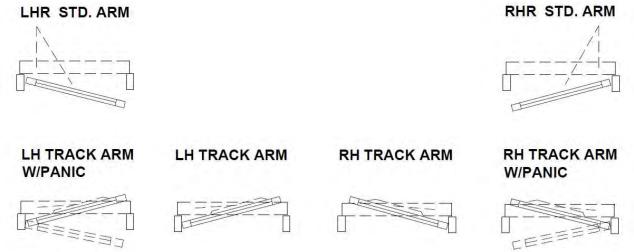
The sequence of installation and adjustment is in order, however some sections will not apply. Review this instruction manual and determine those sections that do apply. Be sure all doors swing freely and clear all objects before attaching arms.

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

INDEX

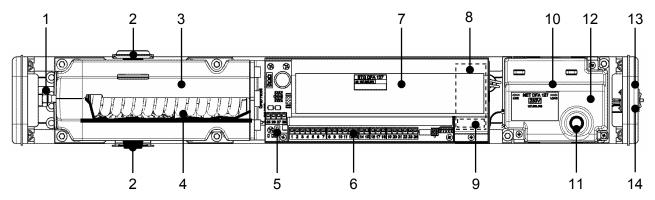
INTRODUCTION, OWNER INFORMATION & INDEX	2
PRODUCT IDENTIFICATION	3
INSTRUCTIONS TO THE INSTALLER	4
ELECTRICAL PREPARATION	4
MECHANICAL INSTALLATION	5
CLOSING SPRING ADJUSTMENT	5
OPEN STOP ADJUSTMENT	6
POWER SUPPLY CONNECTION	
MULTIFUNCTION PUSHBUTTON	
EXPLODED VIEW AND CONTROL PANEL	7
COMMISSIONING WITH THE FPC902 TERMINAL	9
SIGNAGE1	
ARM CONFIGURATIONS1	13
WIRING DIAGRAMS	26

OPERATOR HANDING IDENTIFICATION



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 self-monitoring 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.



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

- 8 Motor Drive Circuit Board
- 9 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

8000/8100/8200 Series Swing Door Operator Installation Instructions

Drive Arms



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 –

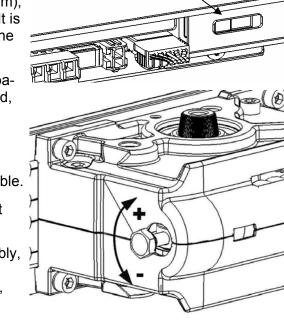
With no power applied, the operator should be capable of being easily pushed open and when released, will close the door at a controlled speed.

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.



Slide switch S1

8000/8100/8200 Series Swing Door Operator Installation Instructions

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

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.

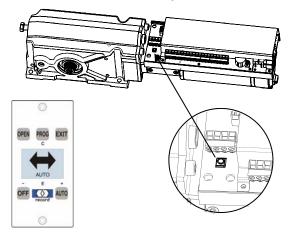
The **multifunction pushbutton on main control** can be used for the following functions:

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).

- 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.

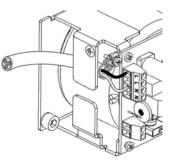
4 flashes of the red LED will initiate the parameter adjust mode of a Display Control Panel. (If on board)

- 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.



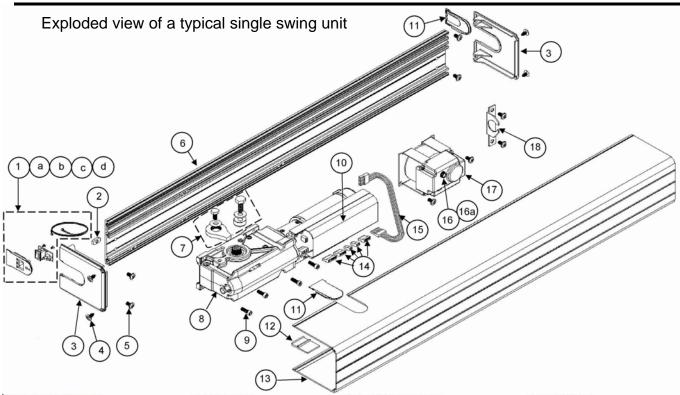
- + = Scroll down
- = Scroll up E = Enter or Select C = Clear or Cancel

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.



Shaft Stop Fixed Stop

8000/8100/8200 Series Swing Door Operator Installation Instructions



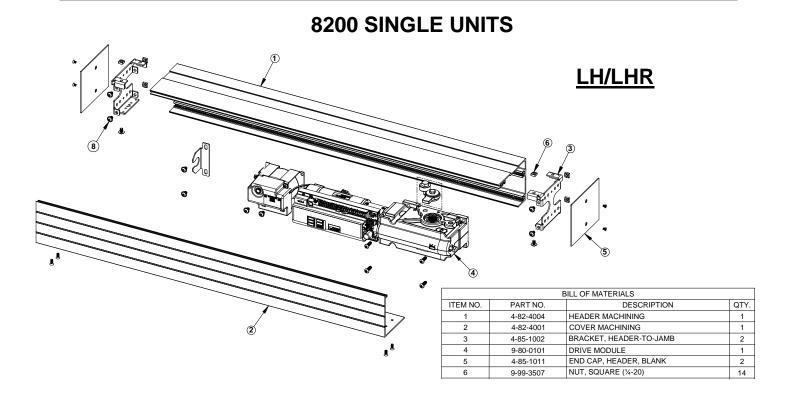
ITEM	PARTNUMBER	DESCRIPTION	ITEM	PART NUMBER	DESCRIPTION
1	4-80-0802	KIT, ROCKER SWITCH, CABLE, INSERT, & SCREWS	11	6-80-9003	INSERT, PLAIN, COVER & END CAP
2	9-99-3507	NUT, SQUARE, 1/4-20	12	6-80-9002	INSERT, SHAFT CUTOUT, COVER
3	6-80-9001	END CAP, COVER	13	5-80-4003	COVER, 6100/8100 CL-DB
4	81-3114-0412-DB	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)

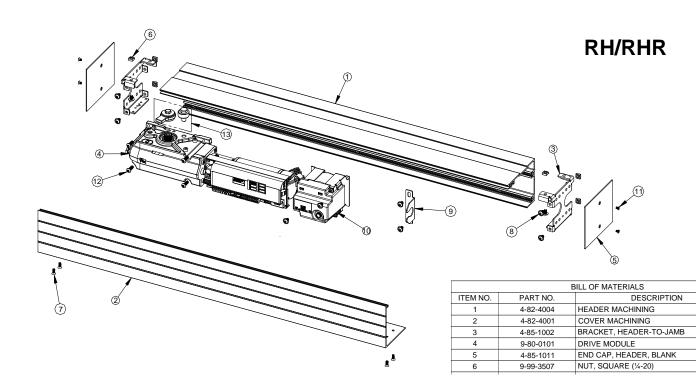
The Series 8000 Standard Rocker Switch Control Panel includes:

- 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.







QTY.

1

1

2

1

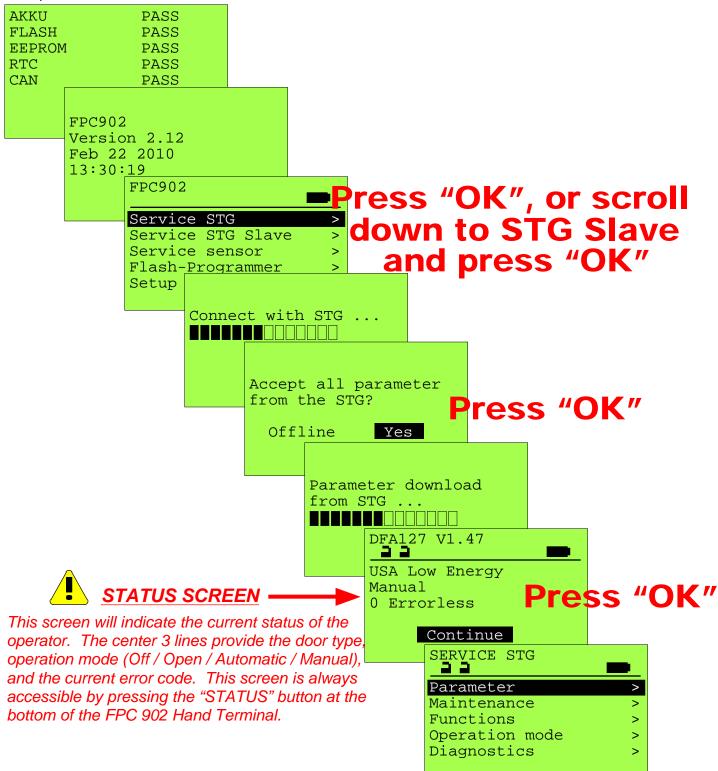
2

14



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.

SERVIC	E STG					
<u></u>	PARAME					
	<u></u>		ICE S	YSTEM		
Mainte	Drivin		DOOR	TYPE	1	
Operat	Drivo	Fire a				
Diagno	Entrar	Interl	0 Ba	asic c	perator	
Ĵ	Manual	Door t		SA ISA IO	w Energy	7
	Contro				Energy	
			-	JK LOW	21101 97	
			30 U	JK Low	Energy	

SERVICE STG SLAVE	
PARAMETER	
	L PANEL
Functi Drive Diagne Entran Mechan	MECHANICAL PANEL
Contro	0 3 Pos. (AUTO)
Lockin	1 4 Positions
Miscel	2 3 Pos. (OFF-A)
	7 3 Pos. (OFF-M) 8 3 Pos. (Lock-A)
	9 3 Pos. (Lock-M)
SERVICE STG	
PARAMETER	
Parame D MISCEL Mainte Manual D	
Functi Contro Push t	PUSH TO ACTUATE
Operat Lockin	0 disabled
Diagnd Input	2 Normal
Output Miscel	3 Slow
	4 HB with sensors
SERVICE STG	
PARAMETER	
Mainte Time d	
Functi Drive Lockin	LOCKING FUNCTION
Operat Entran Lock t	1 Night locked
Draging Manual VRR ma	3 Always locked
Contro Start Lockin	

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. 10



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

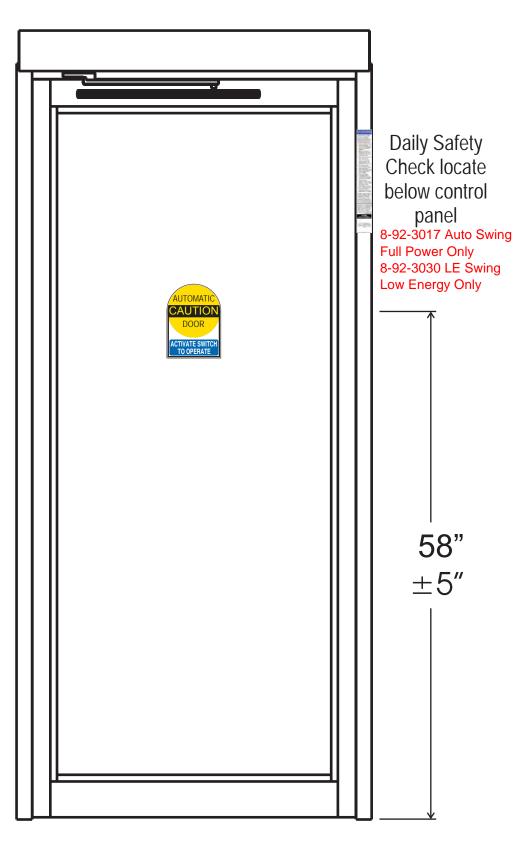
Both Simultaneous Pairs and Double i	Egress
SERVICE STG PARAMETER Parame Mainte Drivin Functi Dirive Overla Overla Master+slave	This is automatically set by the controls
Diagno Entran Sequ. MS 2-1 Sequ. Manual SERVICE STG	upon reading the Master / Slave jumper block (J13) on the controls.
PARAMETER	
Parame MS 2-LEAVES Mainte Drivin Di OVERLAP Functi Time d Functi	This sets the lead time and lag time between operation of the master and slave operators, useful with an over-
Operat Drive Overla Diagno Entran Sequ. 5	lapping astragal. When set above 0, the
MS 2-1 Sequ. Manual	Master begins opening before the slave
	and will stop 10° before fully closed, allowing the slave to close first. When set to 0, operation is simultaneous.
SERVICE STG	
PARAMETER	
Mainto	
Functi Time dFuncti D D	This adjusts a delay time between
Operad Drive Overla	when the master operator begins
Diagno Entran Sequ. 5 MS 2-1 Sequ. Manual	opening and when the slave begins. Closing will not be affected. When set to 0, operation is simultaneous.
SERVICE STG	
PARAMETER Parame D D MS 2-LEAVES	
Mainto	
Functi Time d Functi	This set at a data that the test of a set
Operat Drive Overla	This adjusts a delay time between
Diagno Entran Sequ. 15	when the slave operator begins closing
MS 2-1 Sequ.	and when the master begins closing. Opening will not be affected. When set
	to 0, operation is simultaneous.
	\mathbf{v} \mathbf{v} , operation is simulations.

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). 11

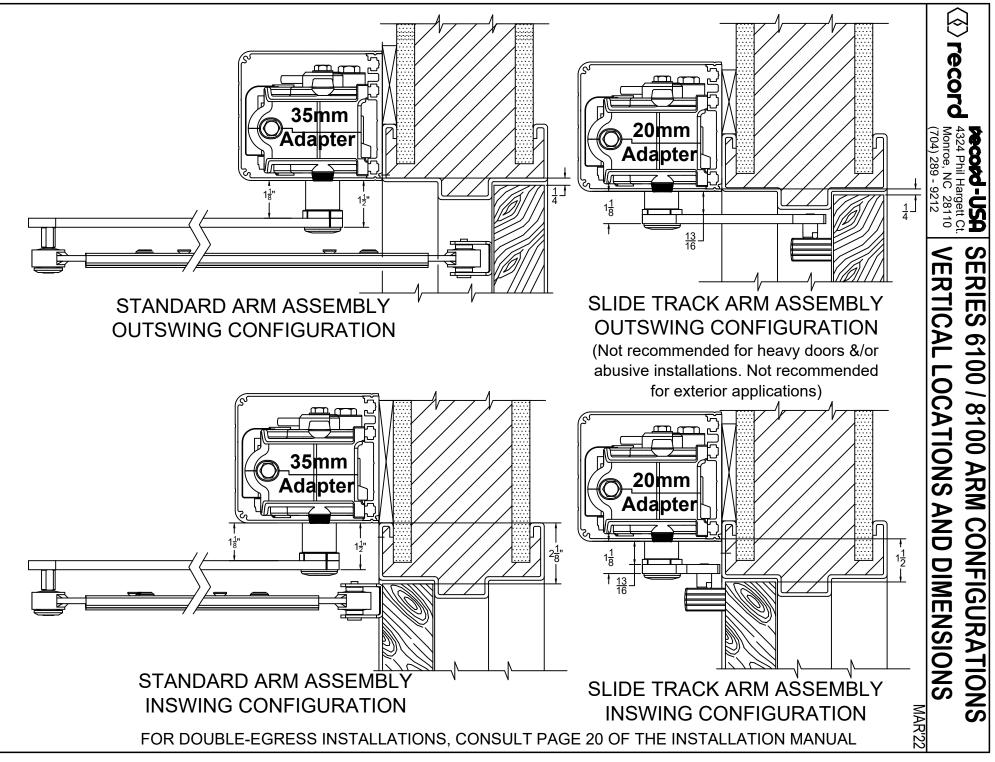




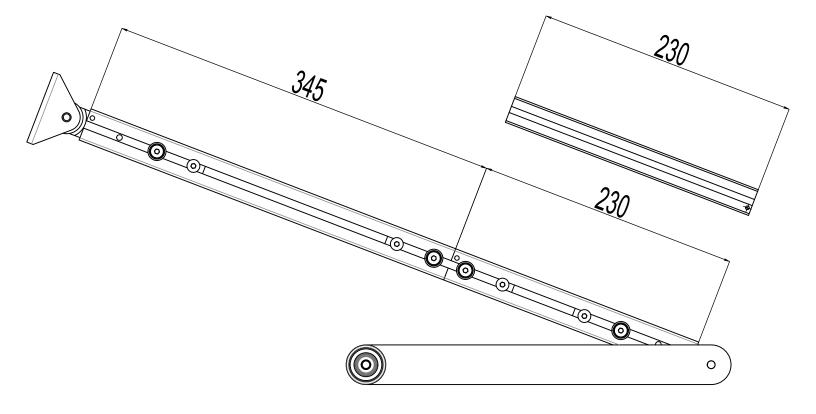
12



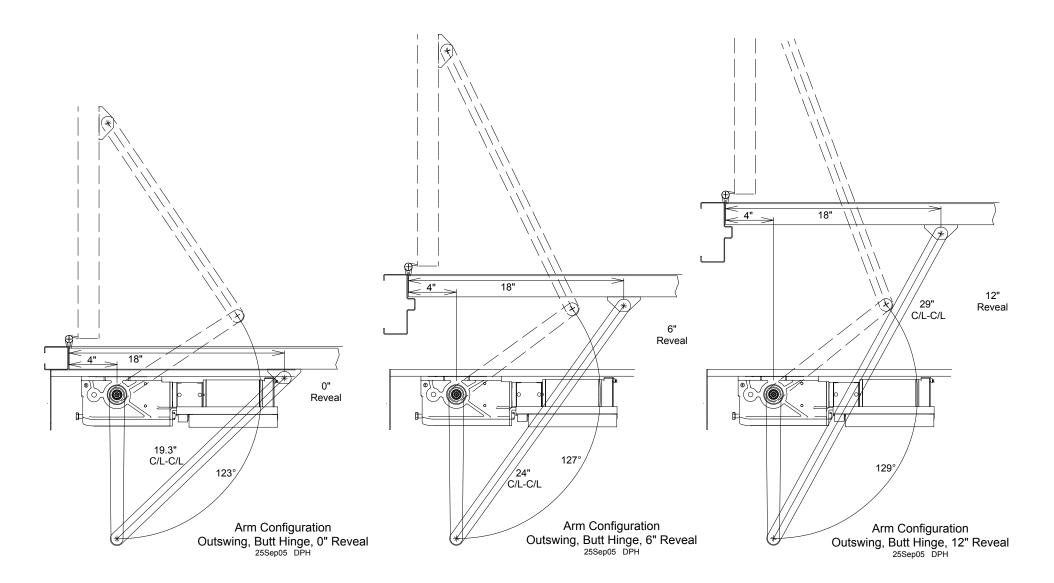


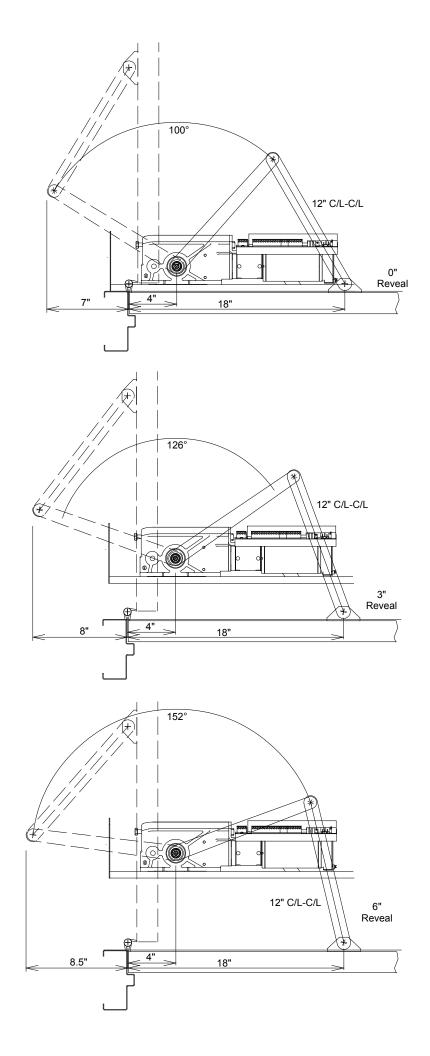


Standard Arm Extension Configurations					
		Reveal Min.		Reveal Range	
Standard Arms (CL/BL)	Extensions (230/345 mm)	[in./mm]	[in./mm]	[in./mm]	
	345	0	0.86 / 22	0.86 / 22	
Standard Arm (102-127815969/102-127816107)	230 + 230	0.86 / 22	6.65 / 169	5.78 / 147	
	230 + 345	6.6 / 169	11.9 / 303	5.2 / 134	





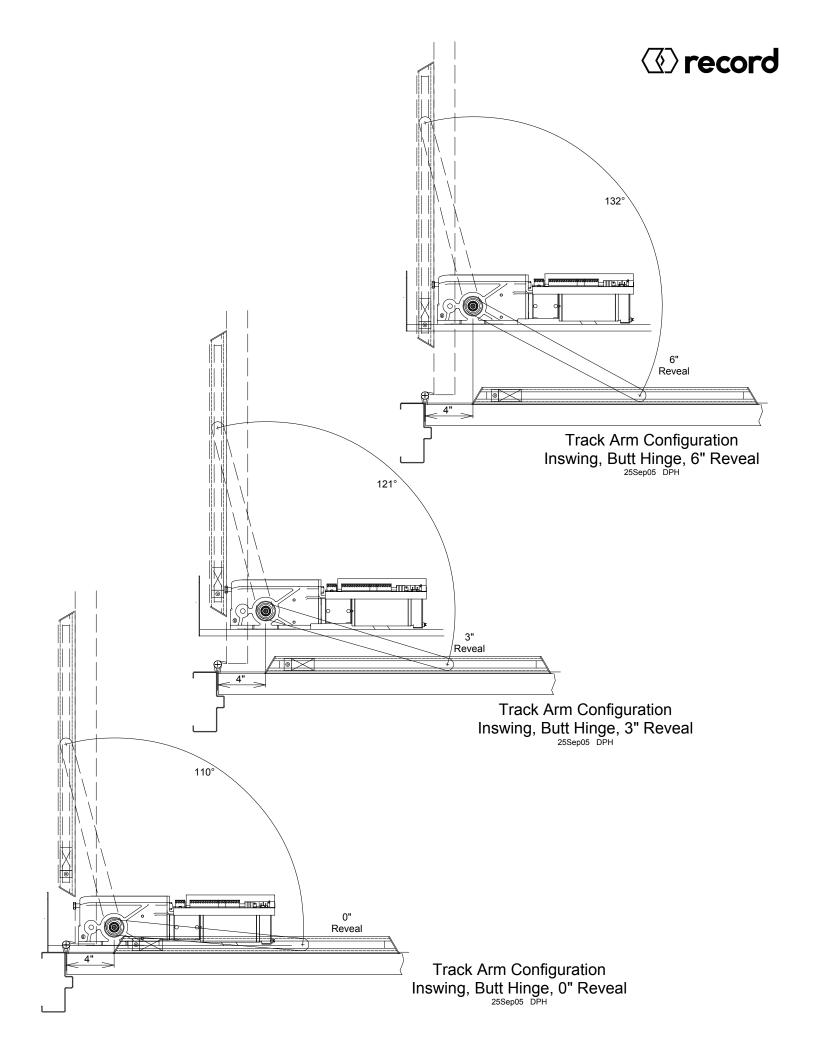


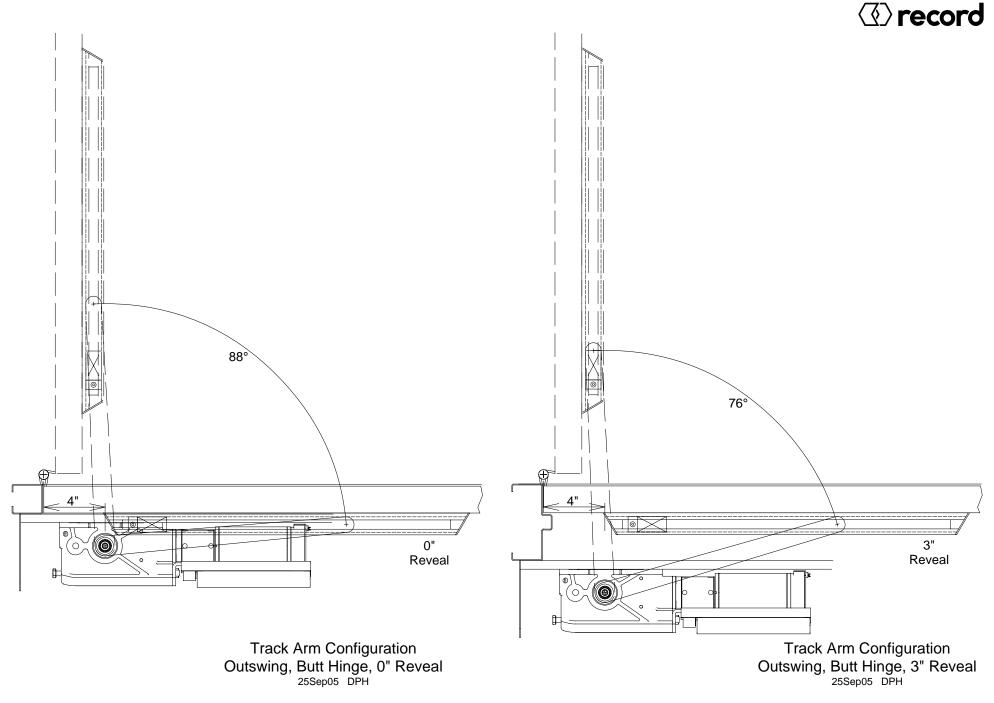




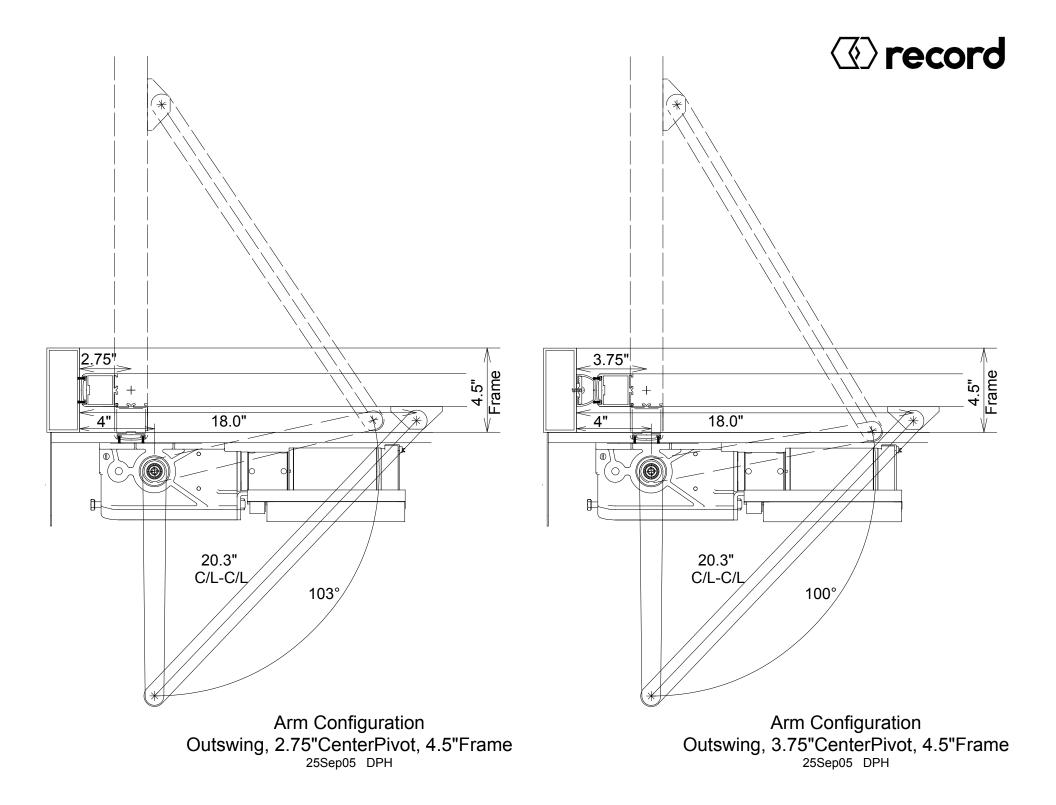
Arm Configuration Inswing, Butt Hinge, 3" Reveal

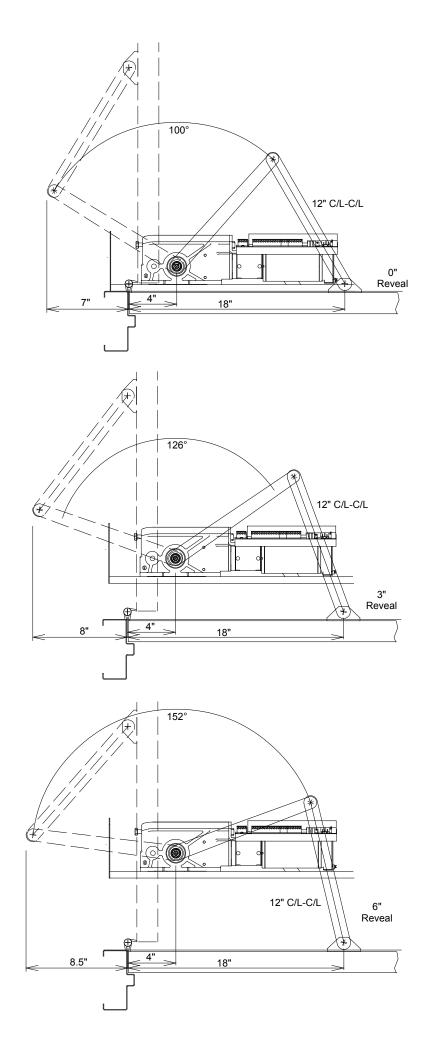
Arm Configuration Inswing, Butt Hinge, 6" Reveal





Not recommended for heavy doors and/or abusive installations



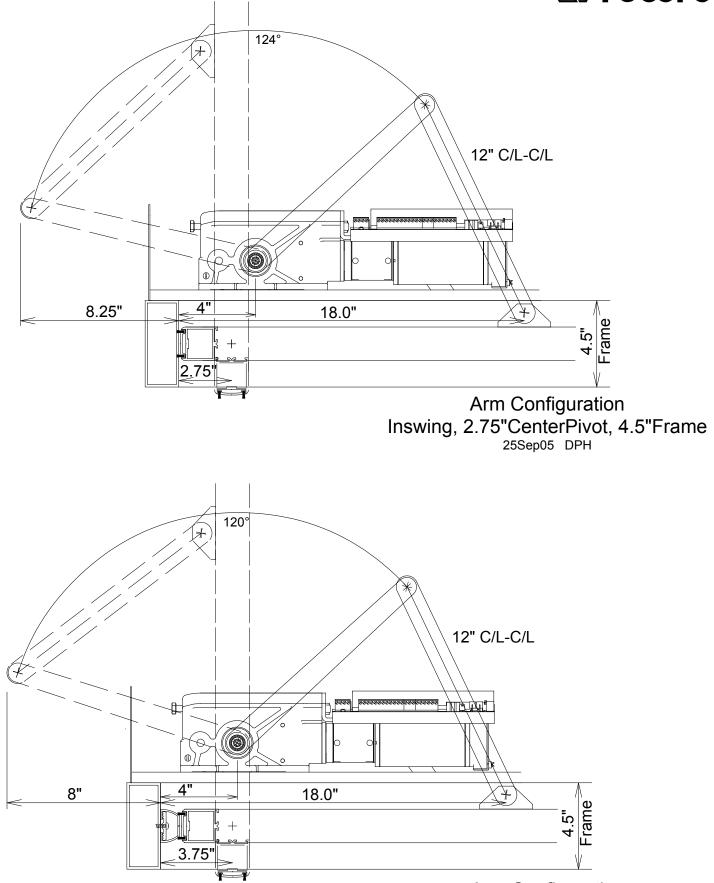


Arm Configuration Inswing, Butt Hinge, 0" Reveal

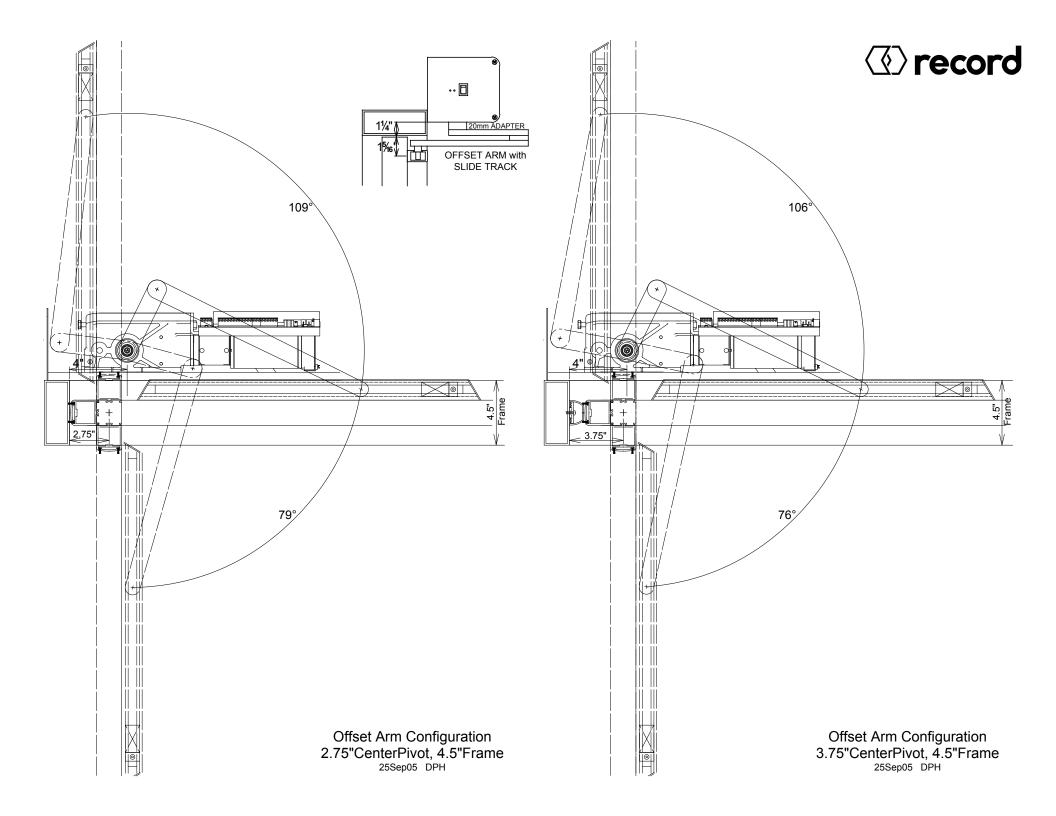
Arm Configuration Inswing, Butt Hinge, 3" Reveal

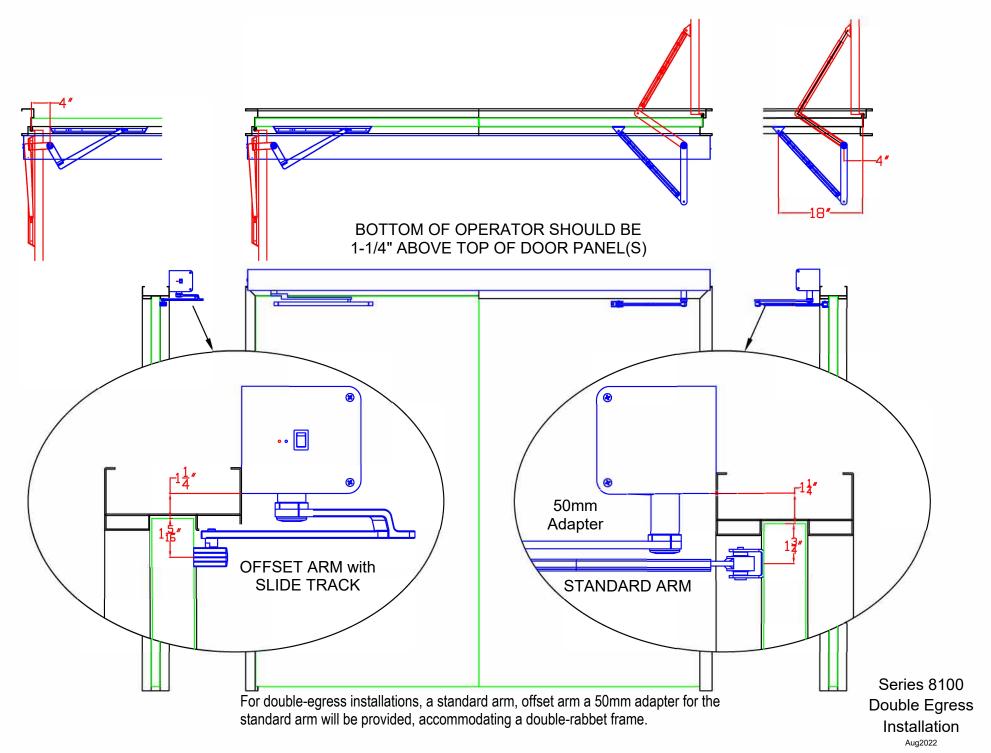
Arm Configuration Inswing, Butt Hinge, 6" Reveal

$\langle \! \! \ensuremath{\mathfrak{O}} \rangle$ record



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





11 Abbreviations

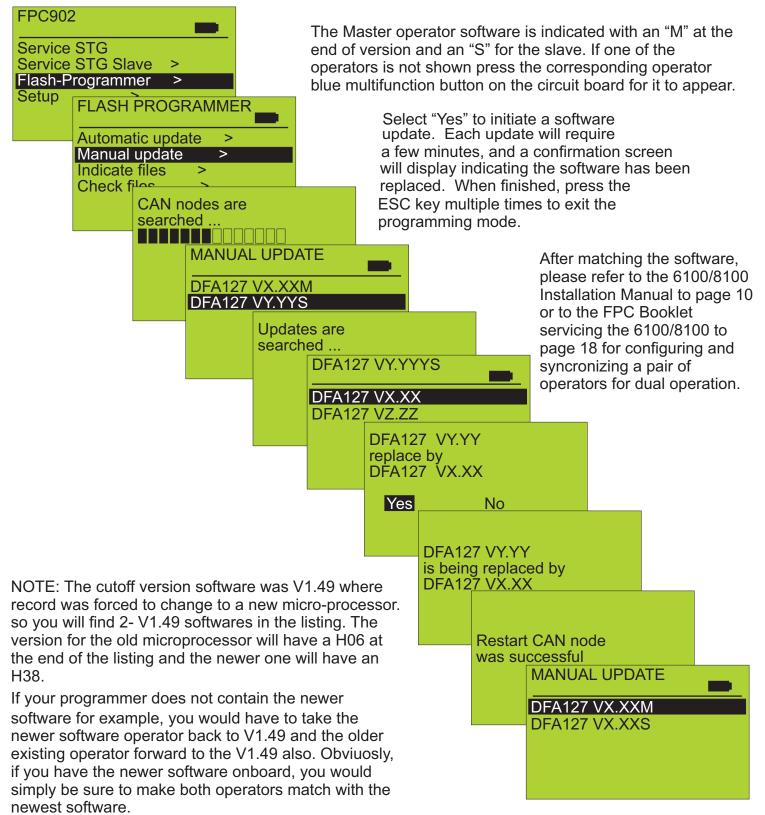
^	٨	Width of passage			
A		Width of passage Actuating contact "outside"		M MOT	Motor
	AKI	Actuating contact "inside"		MP	General installation plan
	AMP	Lamp		N NET	Dewereverh
	APA	actuating switch for			Power supply Emergency fail close contact
	4.00	pharmacies		NOR	
	APD APR	Pushbutton for pharmacies			
	APR	locking bar for pharmacies safety device for pharmacies	0	OUT	Output
	AS	Connection or general	0	OVA	Optical lock indicator
	110	schematic diagram		0111	e priori le oli indicator
	ATE	Drive unit	R	RAD-A	Radar "outside"
	ATM	Drive module		RAD-I	Radar "inside"
Б	DAT	Dettersingeli		RED	Redundant module
Б	BAT BDE	Battery-pack Control unit	S	SAA	interlock control "exit
	BDE-E	Control unit electronic			actuation blocked"
	BDE-M	Control unit mechanical		SAG	Control unit
	BDE-R	Control unit redundant		S-AUS	Interlock control
	BS	BDE with lock		SEA	Interlock control "entrance
0	CAN-H	Carial interface			actuation blocked"
C	CAN-H CAN-L	Serial interface Serial interface		SEK SHE	Transmitter head Safety element, external
	CO48	special standard in France		SÖK	Emergency opening contact
	CPU	microprocessor		SPS	Stored program control SPC
				SSA	Slidebar operator
D	D-STA	Double sliding door drive		SSK	Key-operated contact
	DUO	heavy door operator		STA	Sliding door drive
Е	EEPROM	parameter storage		STD STG	Socket Control unit
	ELS	Light barrier		STM	Control module
	EMK	Receiver head		STP	Control p.c.b.
	EPROM	program storage		SUR-A	Time switch contact "exit
	ES	Electrical connection			mode"
ula	agram E-STA	Single sliding door drive		SUR-V	Time switch contact "locking
	E-STA-L	Single sliding door drive left			mode"
	E-STA-R		т	THS	Thermostatic switch
_	_		•	TOS	Break-out system
F	-	Length of header Extended functions module		TOZ	Door hold-open time
	FEM FIRST	redundant operator		TSA	Telescopic sliding door
					operator
G	G	Height of passage		ΤÜV	Industrial inspectorate
	GTR	Gearbox	U	UMR	Guide pulley
ц	HEA	Manual unlocking from		μP	Microprocessor
	tside"	Manual unlocking "from			
50	HEI	Manual unlocking "from	V		Lock indicating contact
ins	side"	U <i>*</i>		VAL VL	Locking alarm Wiring list
	HES	Manual unlocking switch			Locking device
V	KA	Cable exit		_	
N	KA	Cable exit	Ζ	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 \rightarrow depending on parameterising door remains closed. Door might possibly be hindered or locking device might need to be adjusted.	
11	Difference AKI	RED	Х	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		Х	Battery no longer meets minimum power requirements. Replace Battery.	
14	VAK defective		Х	Locking device hampered. Adjust door leaves and locking device.	
15	EMERG. OPEN.	RED		On RED installations emergency opening switch has been actuated.	
17	Timeout open. time	RED	Х	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.	
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		Х	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		Х	With motor 2: temperature sensor is faulty or motor cable is disconnected.	
43	Encoder fault		Х	Encoder or cable is faulty or not plugged in. Reset.	
44 W	T. motor high			Warning message; Time Delays will be extended. Door might work sluggishly. Check for presence of mechanical hindrance.	
46	STG defective		Х	Control unit is defective. Reset. If no success, then replace control unit.	
47	SIO > 60 sec active		Х	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		V	Replace control unit.	
51	VOK op n unl.		Х	Repeat locking and unlocking procedures. Connection cable might be missing or is not properly plugged in. Check locking settings.	
52	No run param.		Х	Door must be calibrated (perform teach-in run).	
53	Interrupt. mot. 1		Х	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	
L		ļ	L	"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	ļ	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. Inform after-sales service and have installation serviced. Set Targets to 0 to avoid alert.	
98 W	Maintenance due		Х	Warning message: Acknowledge message. Alarm is reset for a short time. Repeats at 100% Actual value = 95% of target value of cycles or operating hours.	
112	Batt. not charged complet.			Inform after-sales service and have installation serviced. Set Targets to 0 to avoid alert 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.	
	ERROR by saving in the STG				
L	,	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)

