

GAAB R402 INSTALLATION INSTRUCTIONS

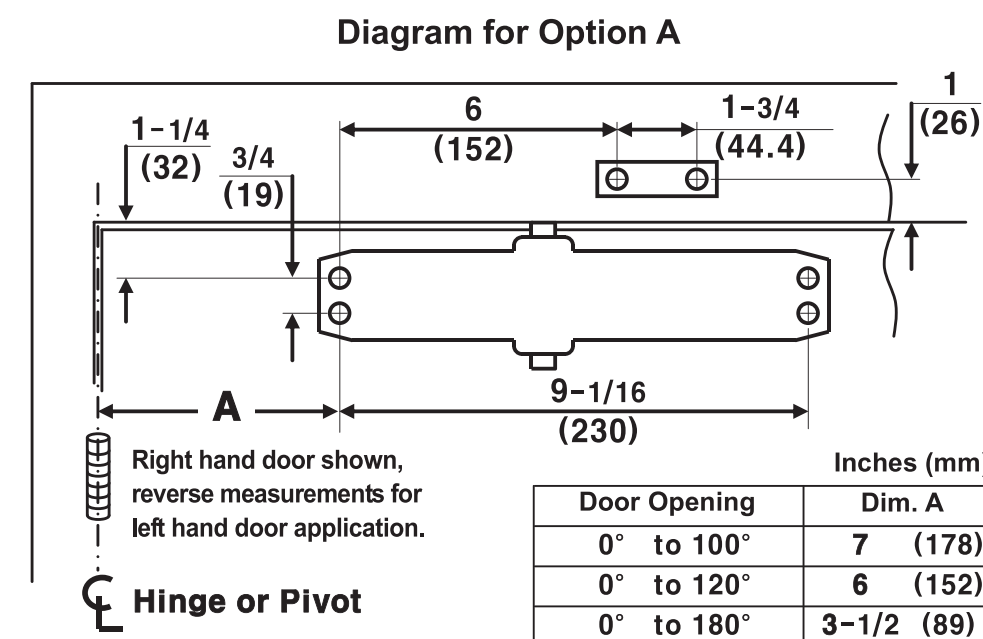
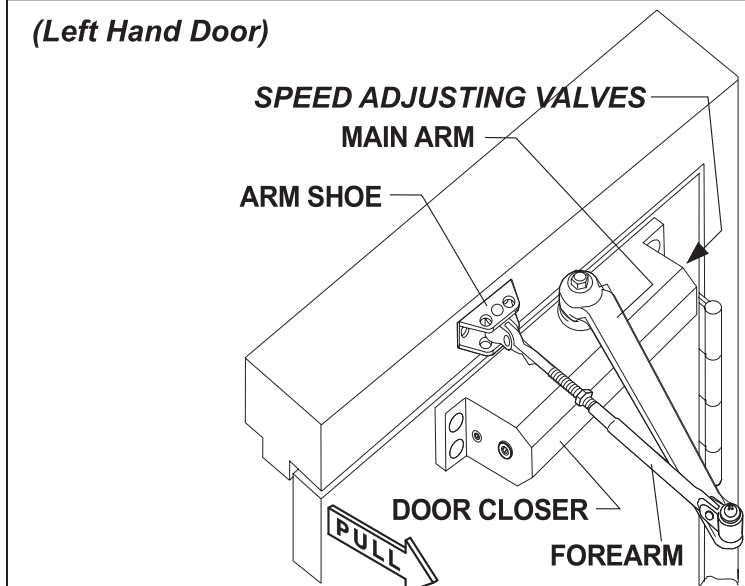
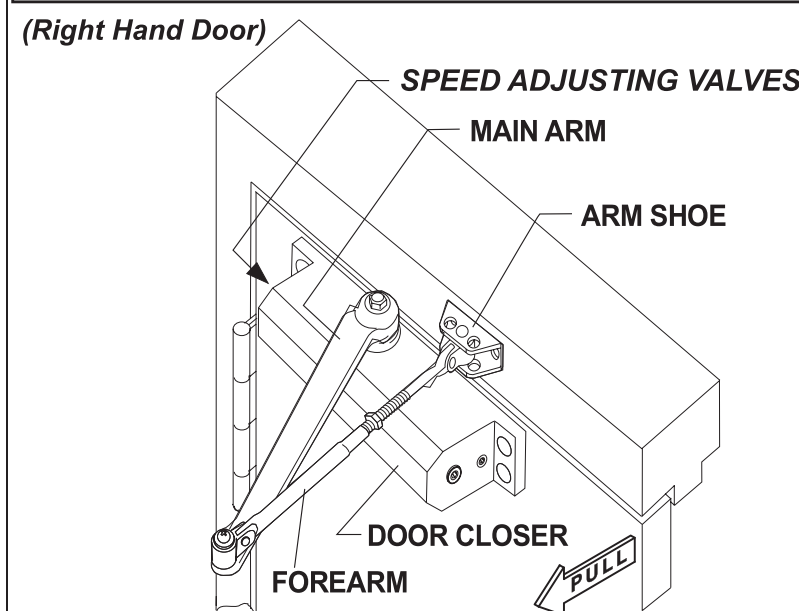
NON-HOLD OPEN ARM
PRESET BACK-CHECK
OPTIONAL: DELAY ACTION

DOOR CLOSER

Power Size: 1-6

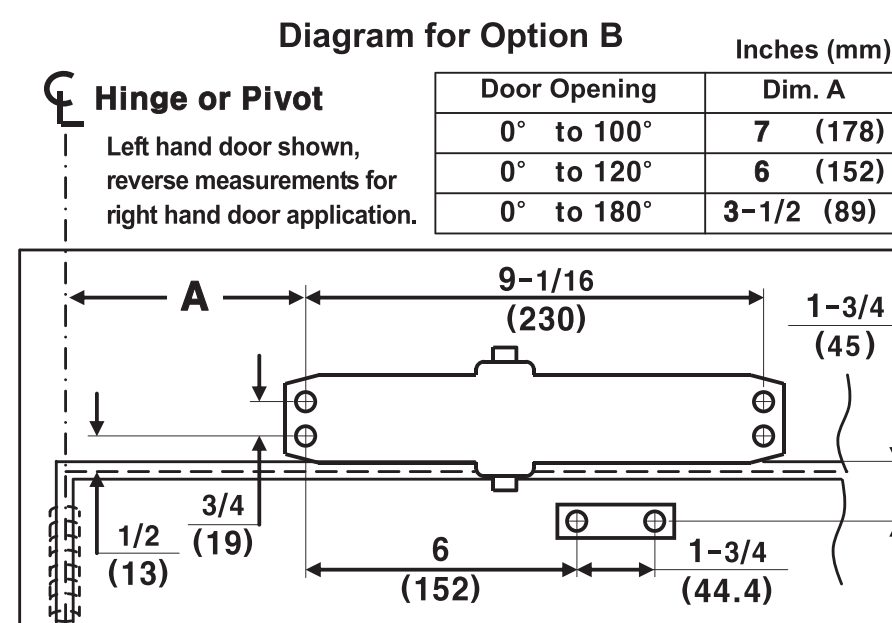
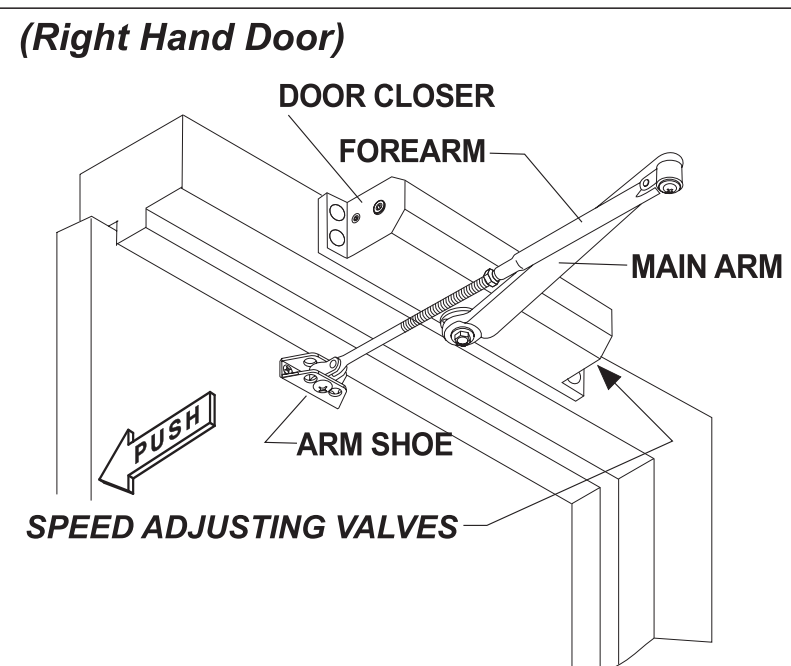
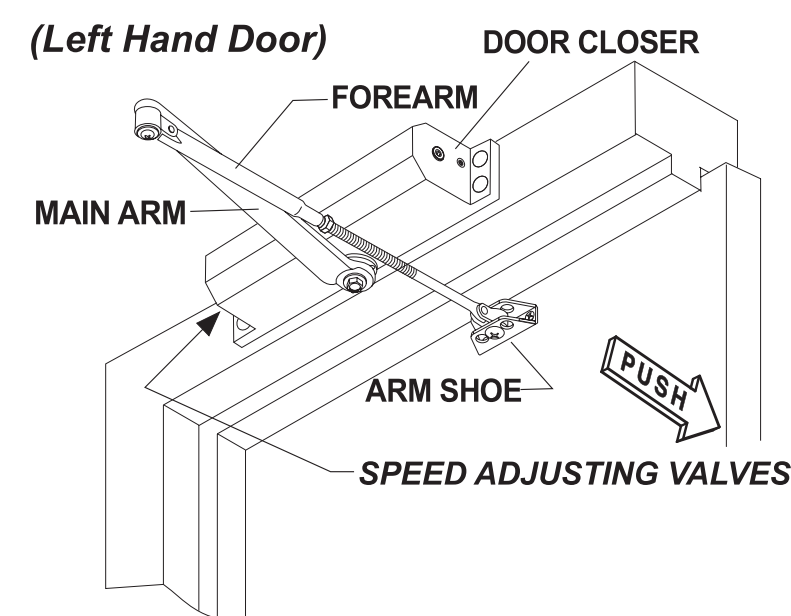
Incorrect installation or adjustment could cause damage or injury. Read and follow instructions carefully.

Option A – Regular Arm Installation



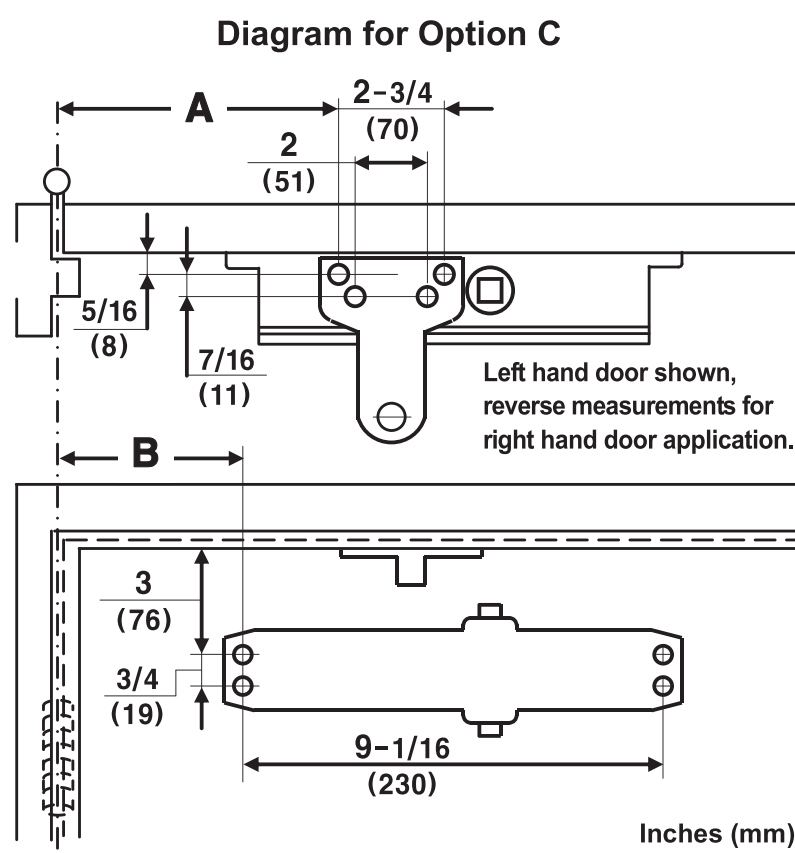
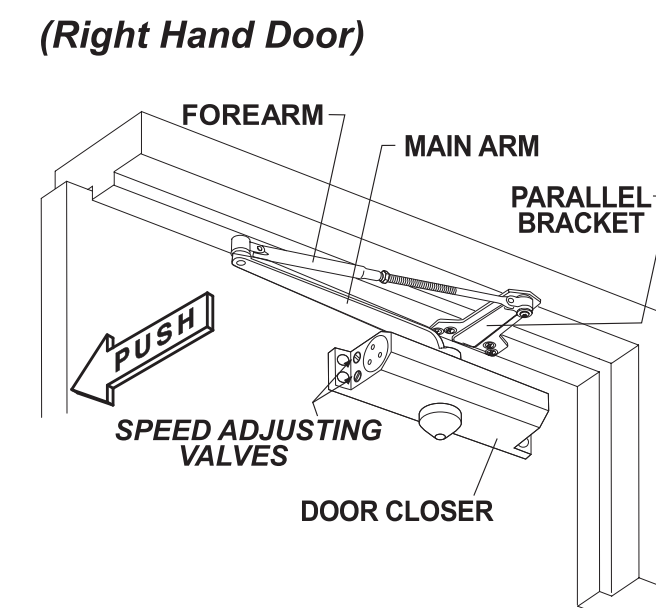
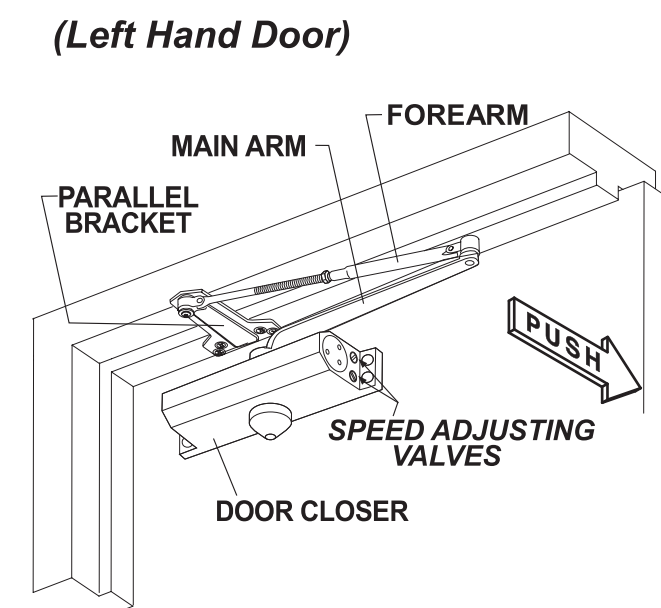
Option A Instructions: 1. Using the measurements from diagram A, mark screw hole center locations. Mark four (4) hole locations on door for door closer and two (2) hole locations on frame for arm shoe. 2. Drill pilot holes in door and frame, drill 7/32"(5.5mm) diameter holes for wood screws or drill and tap #7(.201" diameter) for 1/4-20 machine screws. 3. Install adjustable forearm/arm shoe to frame using screws (a) or (b). 4. Mount closer on door using screws (c) or (d). **SPEED ADJUSTING VALVES MUST BE POSITIONED TOWARD HINGE SIDE.** 5. Install main arm to top pinion shaft, perpendicular to door. Secure tightly with arm screw/washer (e). 6. Adjust length of forearm so it is perpendicular to frame when assembled to preloaded main arm. Secure forearm to main arm with screw/washer (f). 7. Adjust closing speed, see page 2 for reference. 8. Snap pinion cap over shaft at bottom of closer or install (optional) cover with small screw (j).

Option B – Top Jamb Installation



Option B Instructions: 1. Using the measurements from diagram B, mark screw hole center locations. Mark four (4) hole locations on door for door closer and two (2) hole locations on frame for arm shoe. 2. Drill pilot holes in door and frame, drill 7/32"(5.5mm) diameter holes for wood screws or drill and tap #7(.201" diameter) for 1/4-20 machine screws. 3. Install adjustable forearm/arm shoe to door using screws (a) or (b). 4. Mount closer on frame using screws (c) or (d). **SPEED ADJUSTING VALVES MUST BE POSITIONED TOWARD HINGE SIDE.** 5. Install main arm to bottom pinion shaft, perpendicular to door. Secure tightly with arm screw/washer (e). 6. Adjust length of forearm so it is perpendicular to door when assembled to preloaded main arm. Secure forearm to main arm with screw/washer (f). 7. Adjust closing speed, see page 2 for reference. 8. Snap pinion cap over shaft at bottom of closer or install (optional) cover with small screw (j).

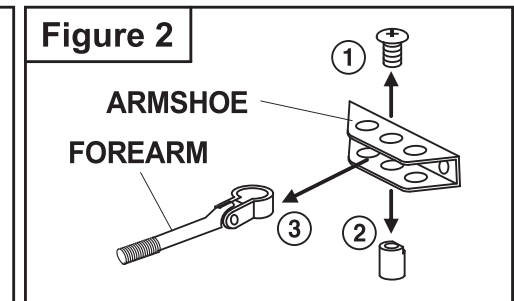
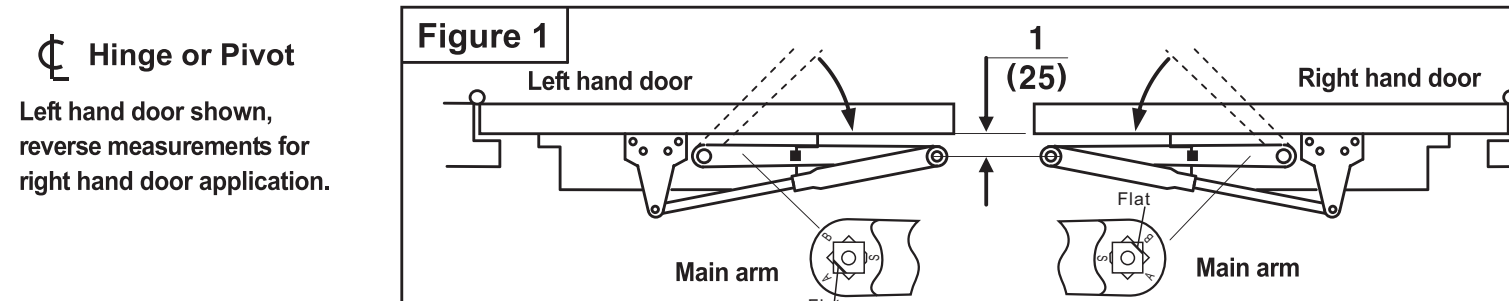
Option C – Parallel Arm Installation



Option C Instructions: 1. Using the measurements from diagram C, mark screw hole center locations. Mark four (4) hole locations on door for door closer and four (4) hole locations on inside frame for parallel bracket. 2. Drill pilot holes in door and frame, drill 7/32"(5.5mm) diameter holes for wood screws or drill and tap #7(.201" diameter) for 1/4-20 machine screws. 3. Install Parallel bracket to frame using screws (g) or (h). 4. Mount closer on door using screws (c) or (d). **SPEED ADJUSTING VALVES MUST BE POSITIONED AWAY FROM HINGE SIDE.** 5. Place main arm on closer pinion shaft. Index main arm - mark "A" or "B" with pinion flat as shown in Figure 1. Secure tightly with screw/washer (e). 6. Remove arm shoe from forearm (see figure 2). Install Parallel bracket to end of forearm using the screw (i). 7. With door closed, adjust length of forearm so that the tip of the main arm is approximately 1" (25mm) away from being parallel with door, when connected to the forearm. Secure with screw/washer (f). 8. Adjust closing speed, see below 9. Snap pinion cap over shaft at bottom of closer or Install (optional) cover with small screw (j).

Components

Screw Pack	Standard Pinion Cap
(a) Self-tapping x2	(b) Machine x2
(c) Self-tapping x4	(d) Machine x4
(e) x1	(f) x1
P-Bracket	Cover
(g) Self-tapping x4	(i) x1
(h) Machine x4	(j) x1



DOOR CLOSER ADJUSTMENT

CAUTION!! Do not turn speed adjusting valves more than two (2) full turns counter-clockwise. Do not tack valves out of closer or a leak will result.

CLOCKWISE FOR POSITIVE NUMBERS (+)
COUNTERCLOCKWISE FOR NEGATIVE NUMBERS (-)

Use 4mm Hex Wrench For this Adjustment

Power Adjusting Screw

INCREASE
DECREASE

BACK CHECK Adjusting Valve

DELAYED Adjusting Valve (optional)

LATCH Adjusting Valve

SWEEP Adjusting Valve

SLOWER
FASTER

INCREASE
DECREASE

CLOSING CYCLE

OPENING CYCLE

DOOR CLOSER SIZE	FULL TURNS OF POWER ADJUSTING SCREW		APPLICABLE DOOR LEAF WIDTH		Applicable Door Weight
	+	-	INTERIOR	EXTERIOR (SWING OUT)	
BF	-	-10	5 lb-f	-	-
1	-10	-7	32" (0.81m)	28" (0.71m)	33 ~ 66 LBS (15 ~ 30 Kg)
2	-5	-2	36" (0.91m)	32" (0.81m)	66 ~ 99 LBS (30 ~ 45 Kg)
3	0	+3	42" (1.07m)	36" (0.91m)	99 ~ 143 LBS (45 ~ 65 Kg)
4	+5	+8	48" (1.22m)	42" (1.07m)	143 ~ 187 LBS (65 ~ 85 Kg)
5	+10	+13	54" (1.37m)	48" (1.22m)	187 ~ 264 LBS (85 ~ 120 Kg)
6	+16	-	58" (1.47m)	54" (1.37m)	264 ~ 330 LBS (120 ~ 150 Kg)

When using an adjustable spring closers, as outlined in ANSI Standard A156.4. When these series of door closers are installed and adjusted to conform th ADA reduced opening force requirements (5 lbs.max.) for interior doors, they may not have adequate closing force to reliably close and latch door. Power adjustments charted on this page are recommended where possible, to ensure proper door control.

By law the Americans with Disabilities Act (ADA) may require that door closer installation comply with accessibility guidelines.