

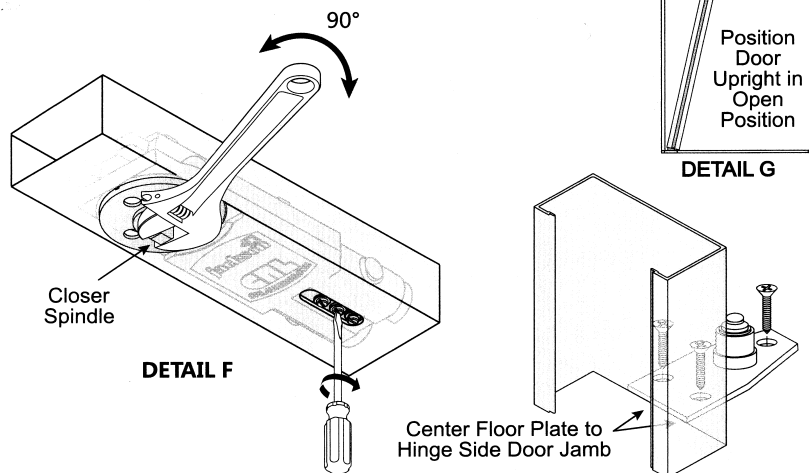
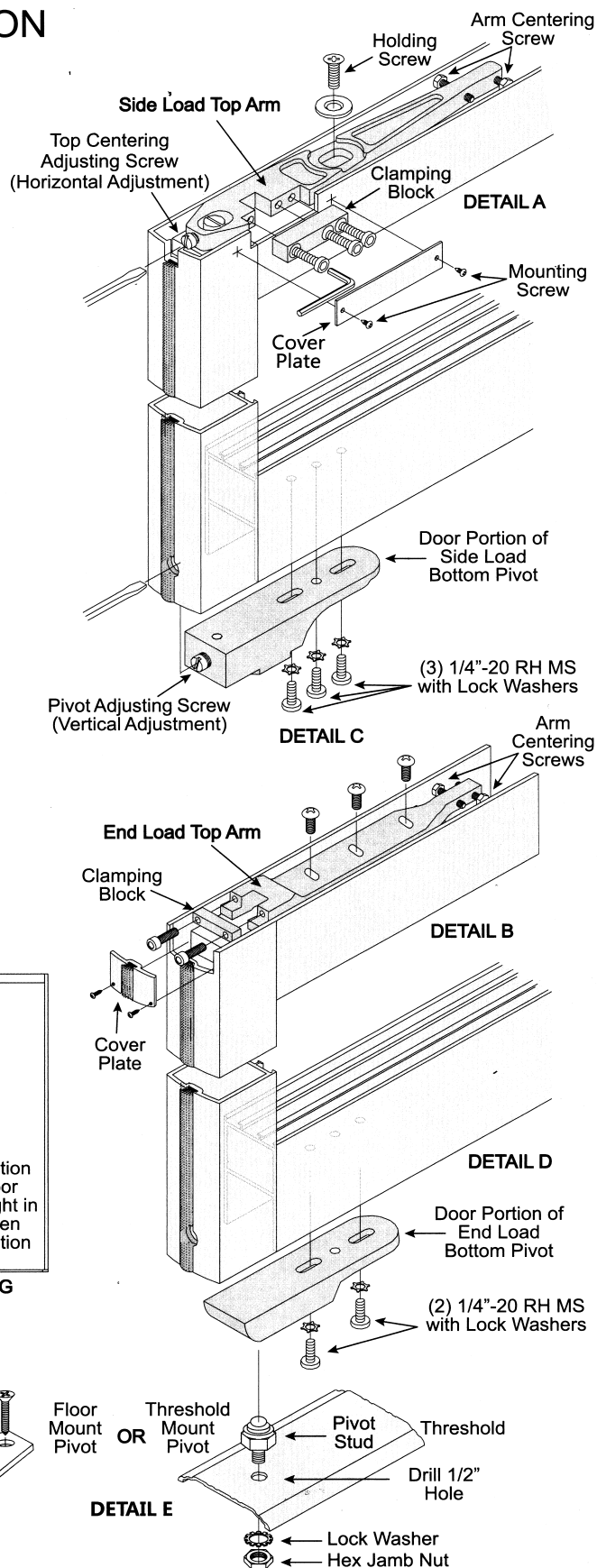
OVERHEAD CONCEALED DOOR CLOSER QUICK START GUIDE

CENTER HUNG CLOSER INSTALLATION

To ensure correct door and frame preparation for specific closer application, see listed templates available online or contact C.R. Laurence Technical Sales at 800-421-6144 Ext. 17520 for assistance.

SIDE LOAD TEMPLATES	END LOAD TEMPLATES
"S" PACKAGE: 10-136	"A" PACKAGE: 10-424
"GE" PACKAGE: 10-847	"AP" PACKAGE: 10-500
"U" PACKAGE: 10-1147	

1. Install Side Load or End Load Arm into top of door. **DETAILS A and B**
2. Install appropriate Bottom Pivot into bottom of door. **DETAILS C and D**
3. Install appropriate Floor Pivot per template. **DETAIL E**
4. Adjust closer spindle position as required to receive top arm. **DETAIL F**
5. Position door upright in open position. **DETAIL G**
6. For **Side Load**: Lift door onto floor pivot and push top arm onto closer spindle.
7. For **End Load**: Slide door onto floor pivot and push top arm onto spindle.
8. Install clamping block to hold door upright, **DO NOT** tighten screws. **DETAILS A and B**
9. Check for alignment and proper gaps.
10. Adjust **Bottom Pivot** for proper height. **DETAILS C and D**
11. Tighten all screws securely.
12. Attach cover plate. **DETAILS A and B**
13. Adjust **Arm Centering Screws** to center door in frame. **DETAILS A and B**



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OFFSET ARM AND SLIDE CHANNEL INSTALLATION

To ensure correct door and frame preparation for specific closer application, see listed templates available online or contact C.R. Laurence Technical Sales at 800-421-6144 Ext. 17520 for assistance.

OFFSET ARM AND SLIDE ASSEMBLY

"S" PACKAGE: 10-947

10-947

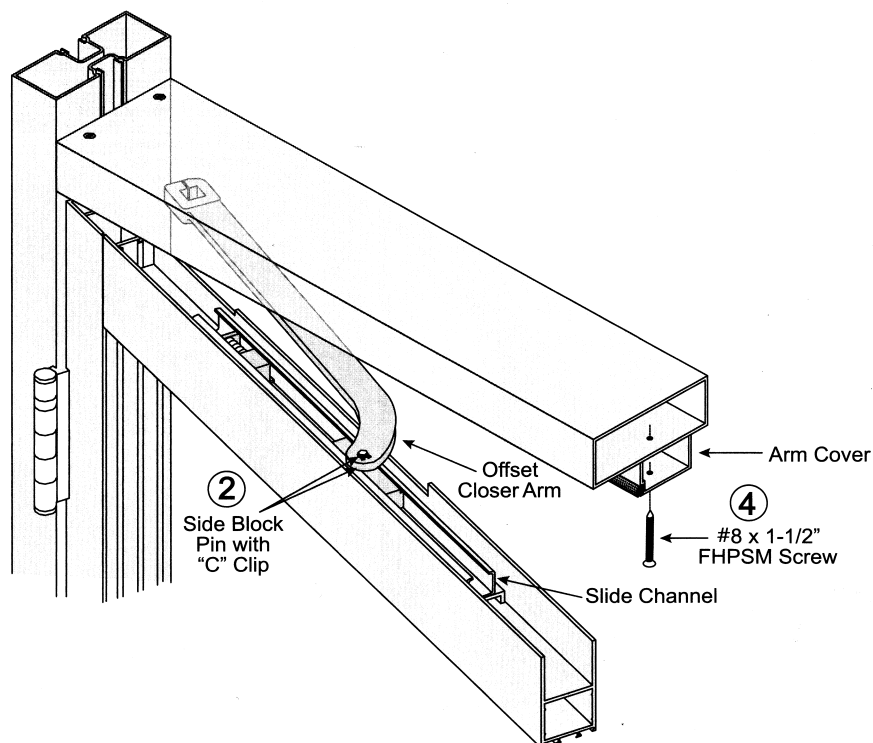
"P" PACKAGE: 10-604

10-607

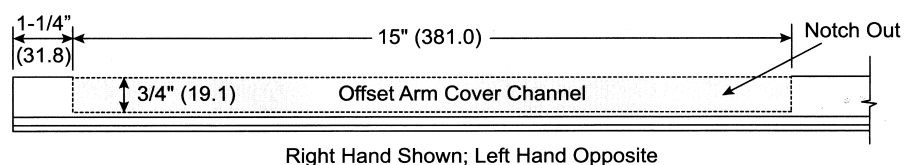
10-1078

"U" PACKAGE: 10-1161

1. Mount slide channel with (3) #8-32 x 3/8" FHMS screws. Reverse slide block if necessary for 90° or 105° installation. See proper template.
2. With door in the open position, slip arm over slide block pin and secure with "C" clip.
3. Adjust closer to desired door speed.
4. Install arm cover with #8 x 1-1/2" FHPSMS screws.



OFFSET ARM COVER CHANNEL



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ADJUSTMENTS AFTER INSTALLATION

NOTE: For detailed step-by-step instructions download the full installation manual at www.crlaurence.com/techdocs/pdf/11M0193_OHC_Door_Closer.pdf

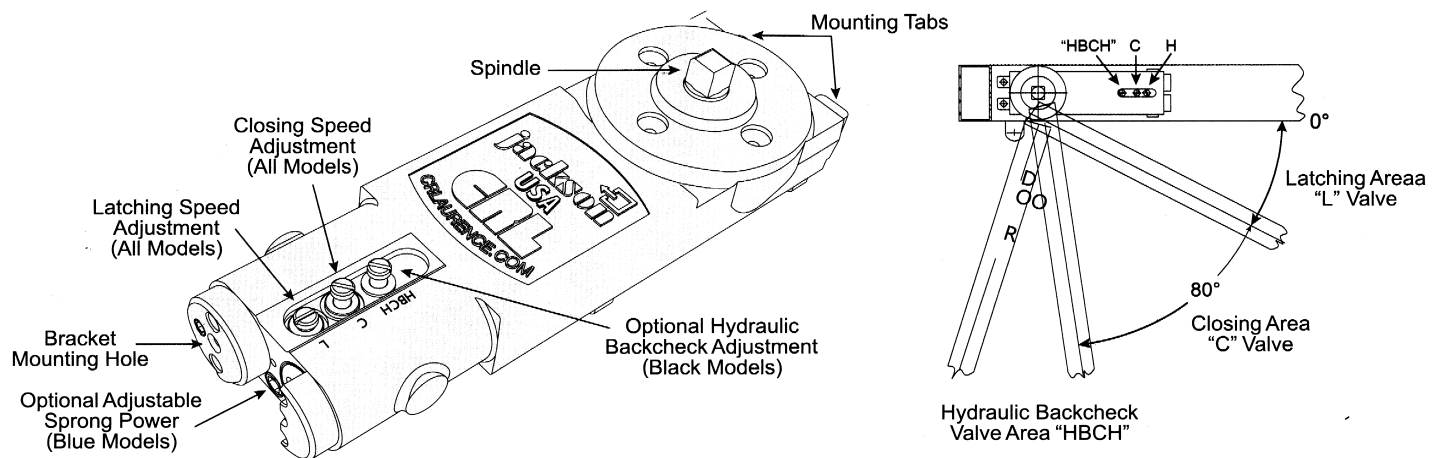
The closer has been fully tested and adjusted at the factory with closing and latching speeds set to achieve a 6 to 8 second closing cycle. The optional hydraulic backcheck has not been factory set.

Before making final adjustments after installation, cycle the door 10 or more times from the maximum open position to the full closed position. Set the latching speed (Valve "L") first, then set the closing speed (Valve "C"). Turn the appropriate adjustment valve counter-clockwise to increase either the closing or latching speeds, and clockwise to decrease. Check and readjust if necessary.

Optional Adjustable Spring Power: The adjustable spring power has been factory set to Size 2. Turn the adjuster clockwise to increase the spring power and counter-clockwise to decrease. Typical door opening force adjusts at the rate of approximately 1 pound of force (4.5 N) for each 3 to 4 revolutions of the adjuster. **IMPORTANT:** Do not attempt to adjust the spring power with door open beyond 20 degrees from fully closed.

Optional Hydraulic Backcheck: Backcheck resistance dampens and slows the momentum of the door when opened with excessive force. Turn the adjustment valve clockwise to increase resistance and counter-clockwise to decrease. **DO NOT FULLY CLOSE VALVE.**

WARNING: Neither the standard internal back stop nor the optional backcheck are to be used as the primary door stop. An auxiliary floor or overhead door stop is always recommended to prevent structural interference and possible door and closer damage.



Closer	Approximate Opening Force In Pounds					Offset Slide-Arm *		
	Center Hung							
Door Size	2/6 x 7/0	3/0 x 7/0	3/6 x 7/0	4/0 x 7/0	2/6 x 7/0	3/0 x 7/0	3/6 x 7/0	4/0 x 7/0
Adjustable Spring	⚙	⚙	⚙	N/A	⚙	⚙	⚙	N/A
Regular Duty Spring	12	10	8	6	17	14.5	13	11
Heavy-Duty Spring	17	15	13	11	N/A	19	17	15

⚙ = Adjustable opening force 5 lbs. to 8.5 lbs. for barrier-free applications for door size listed.* N/A = Application not recommended.

NOTE: Readings are in pound force required to open door and are taken at the lock stile to full degree of opening.

*** IMPORTANT:** The use of an Offset Slide-Arm will add 2 to 4 pounds of opening force due to track friction and therefore may not allow A.D.A. required opening forces and still provide adequate spring power to control and close the door.

*** WARNING:** Although A.D.A. Series Closers comply with A.D.A. specified opening forces, they might not provide adequate spring power to control and close the door due to varying site conditions and door sizes.

INSTALLATION AND ADJUSTMENT INSTRUCTIONS

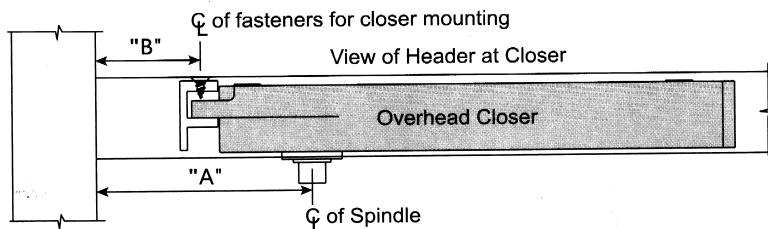
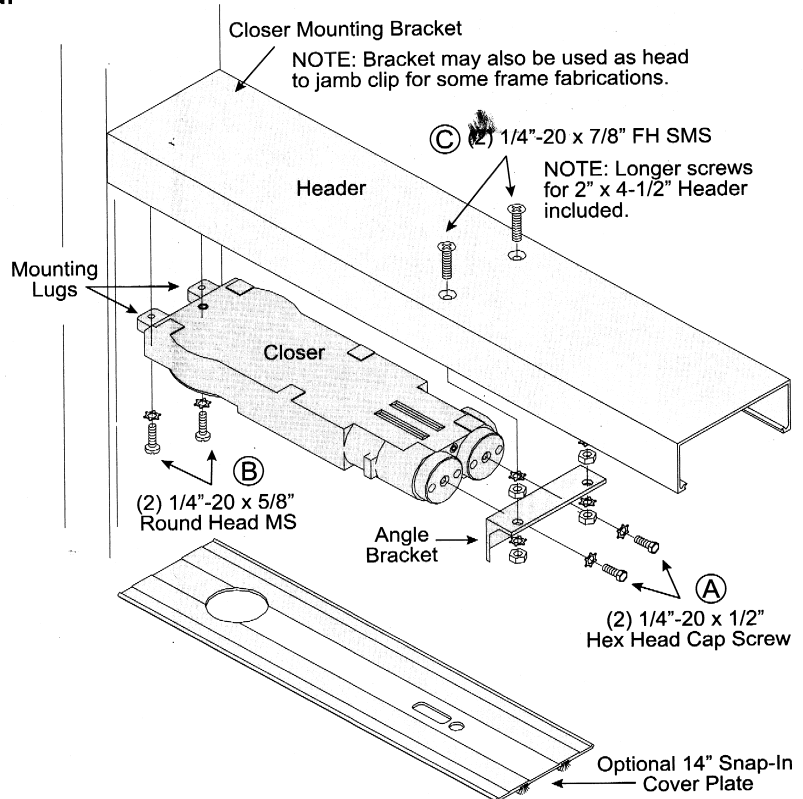
IMPORTANT: PLEASE READ BEFORE PROCEEDING. Observe all safety warnings. Always wear proper eye protection and appropriate safety equipment. Always place a safety block between the door and the jamb to prevent the door from closing while making adjustments. The closer contains springs compressed under high load and has no user serviceable internal components. **Do not attempt to remove the covers or otherwise open the closer in any manner.**

CLOSER LOCATED IN HEADER INSTALLATION

NOTE: For detailed step-by-step instructions download the full installation manual at www.crlaurence.com/techdocs/pdf/11M0193_OHC_Door_Closer.pdf

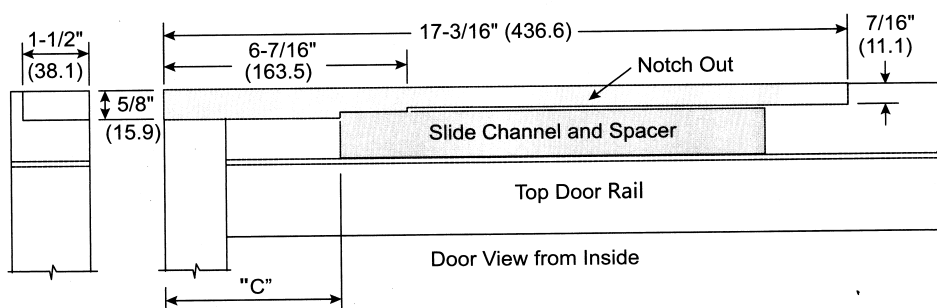
1. Mount angle bracket to door closer with (2) 1/4"-20 Hex Head Cap screw and (2) lock washers.
2. Install (2) 1/4"-20 x 5/8" Round Head MS into closer mounting lugs. Do not tighten screws.
3. Install (2) 1/4"-20 x 7/8" FH SMS * with (2) 1/4"-20 nuts and washers in header.
4. Insert closer lugs into mounting bracket slot at an angle and raise opposite end of closer to align mounting screws with angle bracket holes. Secure bracket to mounting screws using (2) nuts and washers.
5. Tighten (B) Round Head Screws.
6. Attach Optional Cover Plate.

* For 2" x 4-1/2" header, longer screws are provided.



Door Type	Hold Open	Dimension "A"	Dimension "B"
Center Pivot	90° or 105°	2-3/4" (69.9)	7/16" (11.1)
Offset Pivot	90°	3-3/4" (95.3)	1-7/16" (36.5)
	105°	4-1/2" (114.3)	2-3/16" (55.6)
Butt Hinges	90°	2-7/8" (73.0)	9/16" (14.3)
	105°	3-3/4" (95.3)	1-7/16" (36.5)

SLIDE CHANNEL LOCATION IN TOP DOOR RAIL FOR OFFSET ARM



Door Type	Hold Open	Dimension "C"
Offset Pivot	90°	4-15/16" (125.4)
	105°	4-11/16" (119.1)
Butt Hinges	90°	4-1/16" (103.2)
	105°	3-7/8" (98.4)