



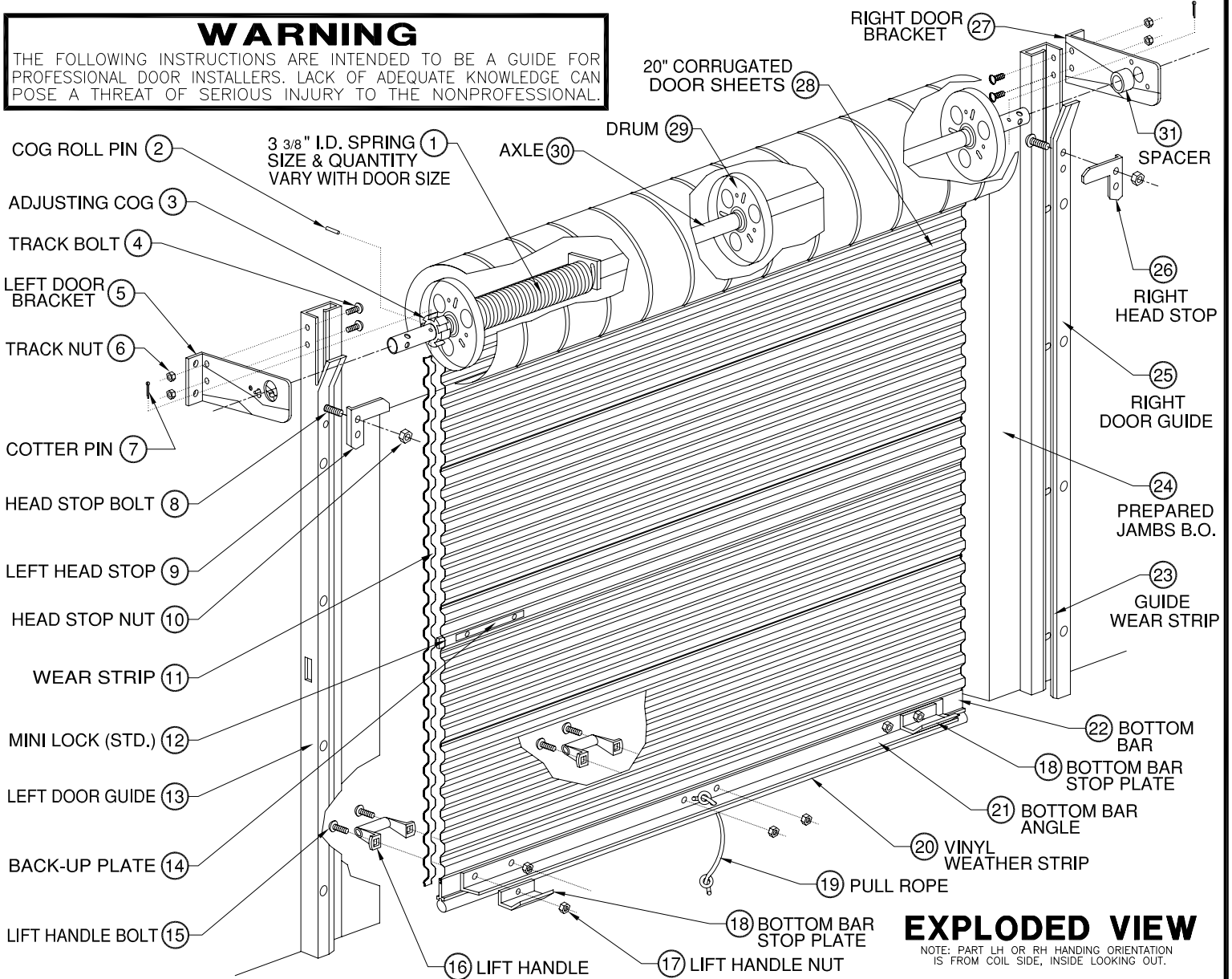
U.S. Door MODEL 502 DOOR INSTALLATION INSTRUCTIONS

& Building Components

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WARNING

THE FOLLOWING INSTRUCTIONS ARE INTENDED TO BE A GUIDE FOR PROFESSIONAL DOOR INSTALLERS. LACK OF ADEQUATE KNOWLEDGE CAN POSE A THREAT OF SERIOUS INJURY TO THE NONPROFESSIONAL.



EXPLODED VIEW

NOTE: PART LH OR RH HANDING ORIENTATION IS FROM COIL SIDE, INSIDE LOOKING OUT.

IMPORTANT REMARKS

DO NOT CUT THE BANDS WHICH HOLD DOOR IN A ROLL, YOU WILL BE INSTRUCTED AT A LATER TIME EXACTLY WHEN TO CUT THEM. NO GUARANTEE WILL BE GIVEN, OR RESPONSIBILITY ACCEPTED BY MANUFACTURER IF DOOR IS NOT ERECTED AS INSTRUCTED. FOLLOW ALL OF THE INSTRUCTIONS GIVEN FOR PROPER DOOR OPERATION. PLEASE REVIEW ALL INSTRUCTIONS PRIOR TO STARTING ACTUAL WORK.

PARTS LIST: GIVE ROUGH OPENING SIZE WHEN ORDERING

ITEM	PART NUMBER	DESCRIPTION	ITEM	PART NUMBER	DESCRIPTION
1	U1200XX-X	3 3/8" I.D. SPRING, QTY. & SIZE WILL VARY	17	U210001	NUT, LIFT HANDLE, 1/4-20
2	U120181	ROLL PIN .25 x 1.5	18	U120167	BOTTOM BAR STOP PLATE
3	U120186	SPRING ADJUSTING COG	19	U120027	PULL ROPE, 1/4" YELLOW
4	U210017	BOLT, TRACK, 1/4-20	20	U240002	VINYL WEATHER STRIP, BULB ASTRAGAL
5	U120177	BRACKET, DOOR, LH	21	U130001-XXX	BOTTOM BAR ANGLE, 1 1/2" x 1 1/2"
6	U210001	NUT, TRACK, 1/4-20	22	U240001-XXX	BOTTOM BAR
7	U210081	3/16" x 1 1/2" COTTER PIN	23	U240021-XXX	WEAR STRIP, GUIDE
8	U210151	CARRIAGE BOLT, HEAD STOP, 1/4-20 x 3/4"	24	N.A.	PREPARED JAMBS, BY OTHERS
9	U120047	HEAD STOP, LEFT	25	U130011-R	GUIDE, TRACK RIGHT
10	U210002	NUT, HEAD STOP, 5/16-18	26	U120046	HEAD STOP, RIGHT
11	U240004-XXX	WEAR STRIP, ATTACHED TO EXT. DOOR CURTAIN	27	U120178	BRACKET, DOOR, RH
12	U190048	MINI LOCK, LATCH ASSEMBLY	28	U230100-20	20" CORRUGATED DOOR SHEET
13	U130011-L	GUIDE, TRACK LEFT	29	U120182	DRUM, 9 1/2" DIA.
14	U120050	BACK-UP PLATE, 1" x 8"	30	U280200-XXX	AXLE TUBE, 1.0" DIAMETER
15	U210003	CARRIAGE BOLT, LIFT HANDLE, 1/4-20 x 5/8	31	U320090	SPACER, AXLE
16	U120026	LIFT HANDLE, 5 1/2"			

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STEP 1

CHECK THE HEIGHT AND WIDTH OF THE DOOR OPENING AND VERIFY THE MEASUREMENTS AGAINST THE SIZE SHOWN ON THE DOOR PACKING SLIP AND THE LABEL AFFIXED TO THE DOOR (SEE FIGURE 1).

IMPORTANT

DO NOT CUT BANDS WHICH HOLD DOOR IN A ROLL. YOU WILL BE TOLD AT A LATER TIME EXACTLY WHEN TO CUT THEM.

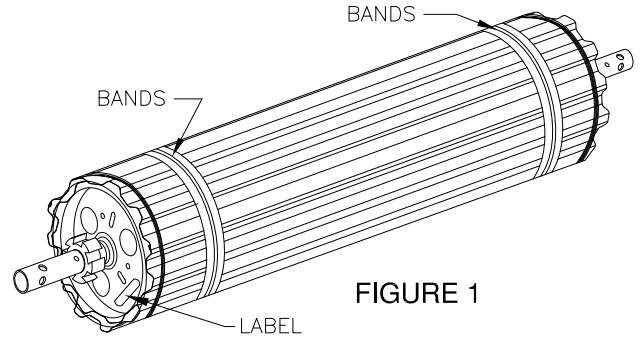


FIGURE 1

STEP 2

- (A) CHECK DOOR JAMBS FOR PLUMB.
- (B) CHECK HEADER AND FLOOR TO BE SURE THEY ARE BOTH LEVEL.
- (C) CHECK FOR PROPER DOOR GUIDE LENGTHS (SEE CHART 2D).
- (D) RAISE GUIDE UP IF NEEDED TO LEVEL THE DOOR ASSEMBLY.
- (E) CHECK RAIN LIP DIMENSIONS, IF APPLICABLE (FIGURE 2A & 2C).
- (F) CHECK TO BE SURE THAT THERE IS SUFFICIENT CLEARANCE AT THE JAMB AND AT THE HEAD (SEE FIGURES 2A, 2B & 2C).

DOOR GUIDE RAIL LENGTHS	
DOOR HEIGHTS	HEIGHT ADD ON DIMENSION
7'-0" HIGH ONLY	6 1/4"
UP TO 8'-4" HIGH	7 1/2"
UP TO 10'-0" HIGH	9"

CHART 2D

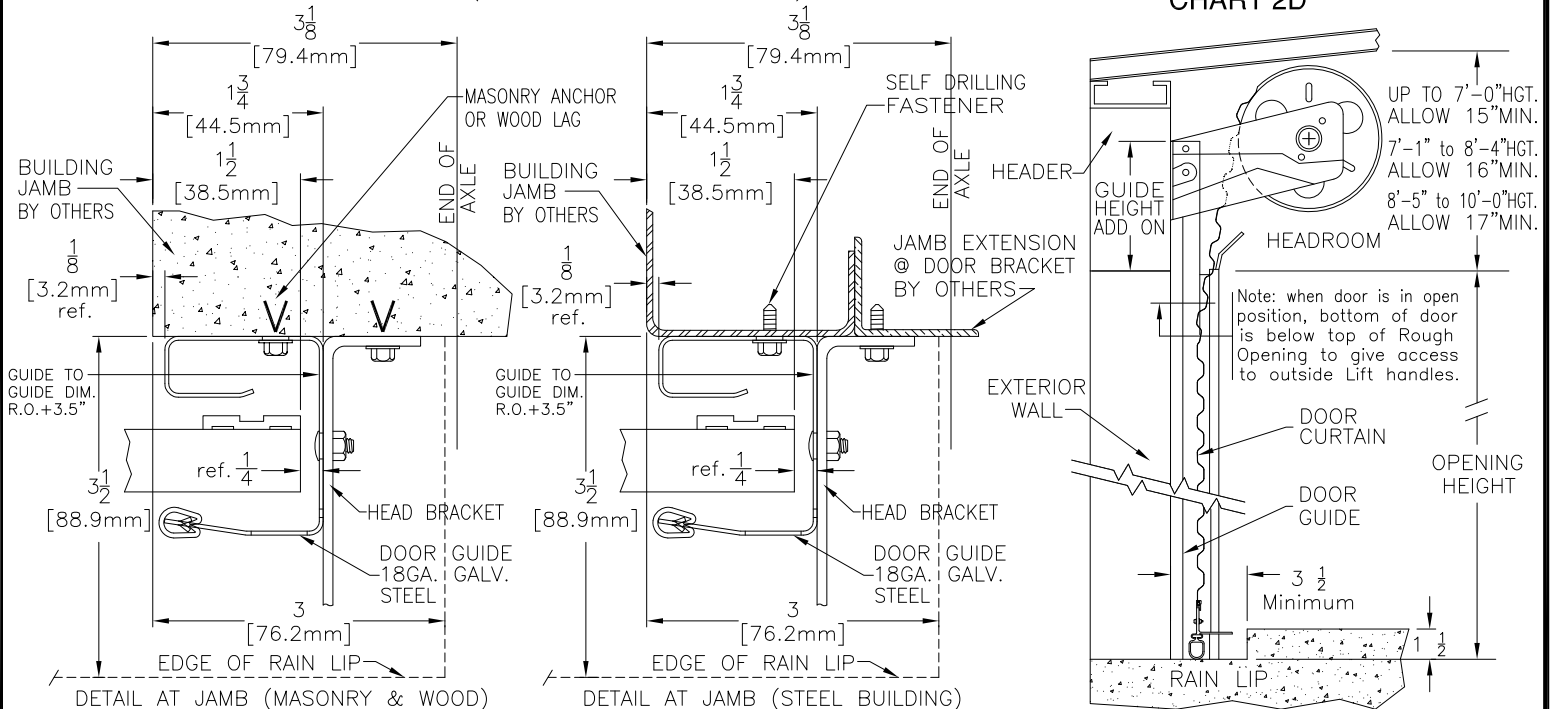


FIGURE 2A

FIGURE 2B

FIGURE 2C

Note: INSIDE GUIDE TO GUIDE DIMENSION IS ROUGH OPENING WIDTH+3.5"

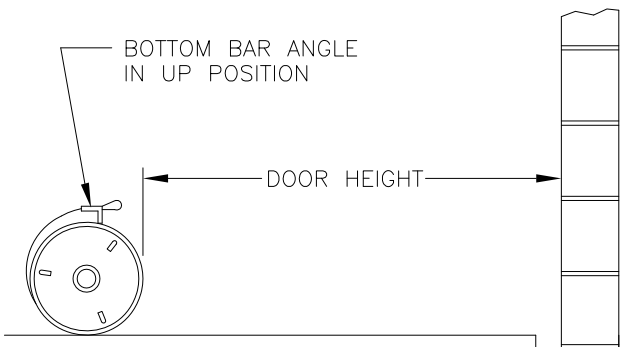
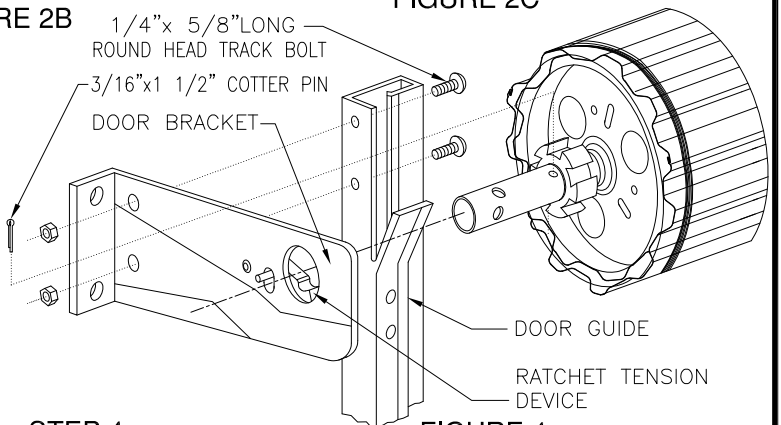


FIGURE 3

STEP 3

LAY DOOR ON FLOOR WITH THE BOTTOM BAR AT THE UP POSITION (12 O'CLOCK). MAKE SURE THE FLOOR IS CLEAR OF ANY OBJECTS THAT MIGHT DAMAGE THE DOOR. (SEE FIGURE 3)



STEP 4

FIGURE 4

BOLT BRACKETS TO DOOR GUIDES AS SHOWN ABOVE. INSTALL SPACER ON (RIGHT SIDE AXLE ONLY) THEN; SLIP BRACKETS ONTO AXLE ENDS, INSERT AND BEND COTTER PIN PROVIDED (SEE FIGURE 4). NOTE: DOORS OVER 8'-4" HIGH HAVE AN EXTENDED DOOR BRACKET WITH A 10" ANGLE ATTACHED.

AFTER DOOR ASSEMBLY IS IN POSITION, FASTEN THE BRACKETS TO THE BUILDING. SEE CHART AT RIGHT FOR FASTENER TYPE.

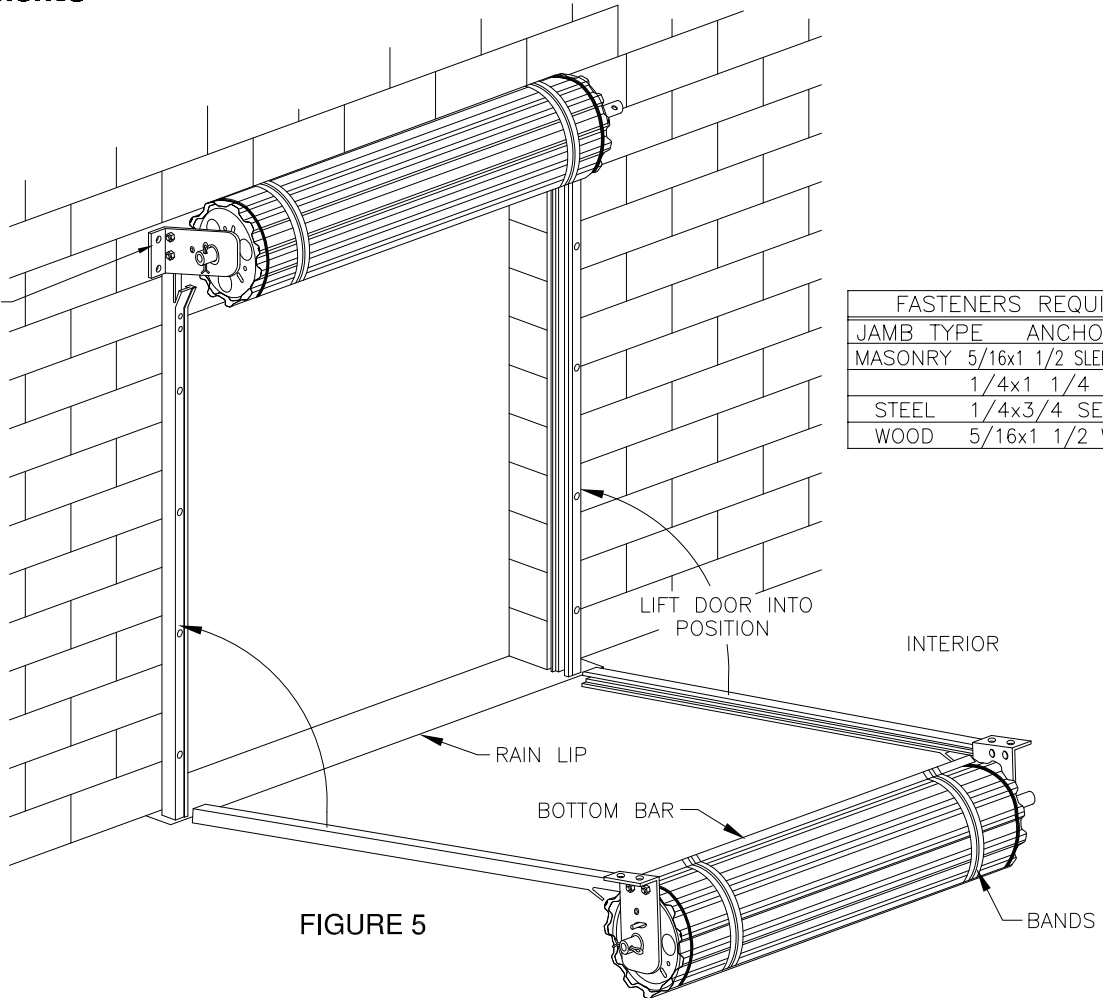


FIGURE 5

STEP 5

PLACE BOTTOM OF GUIDES AGAINST THE WALL AT DOOR JAMB (DOOR CENTERED IN OPENING), LIFT BOTH ENDS OF DOOR EVENLY AND WALK INTO POSITION AT DOOR HEADER. WHILE ONE INSTALLER HOLDS DOOR IN PLACE, THE SECOND INSTALLER SHOULD VERIFY THAT DOOR IS CENTERED IN OPENING AND CHECK PLUMB OF GUIDES. IF DOOR IS NOT CENTERED IN OPENING, DOOR CAN BE EASILY MOVED LEFT OR RIGHT. ALLOW 3/8" CLEARANCE FROM CURTAIN ROLL END AND INSIDE OF VERTICAL GUIDE RAILS. ATTACH DOOR BRACKET AND GUIDE TO BUILDING AT DOOR BRACKET ONLY. DOOR BRACKETS SHOULD NOW SUPPORT DOOR (SEE FIGURE 5 ABOVE). NOTE: EACH BRACKET REQUIRES (2) FASTENERS TO ATTACH IT TO JAMB.

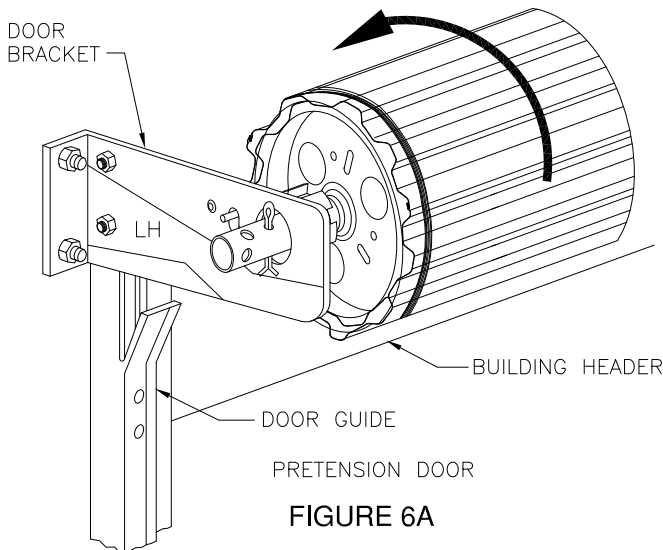
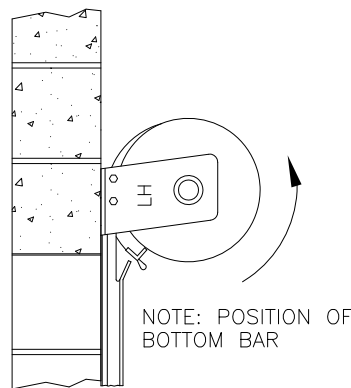
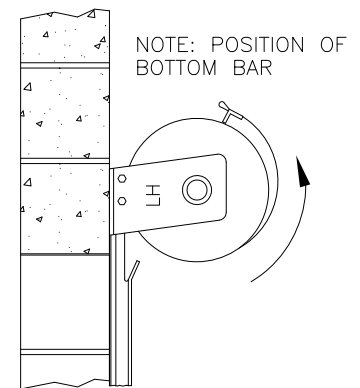


FIGURE 6A



DOORS UP TO 6'-11" HIGH REQUIRE APPROX. 3 TURNS

FIGURE 6B



DOORS 7'-0" HIGH AND OVER REQUIRE APPROX. 3 1/2 TURNS

FIGURE 6C

CAUTION: SPRINGS ARE UNDER TENSION AND DOOR COULD UNWIND IF LET GO. MAINTAIN COMPLETE CONTROL OF DOOR.

STEP 6

ROTATE DOOR ROLL ASSEMBLY AS SHOWN IN FIGURE 6A ABOVE. AFTER ROTATING DOOR, CUT HOLDING DOOR IN "CYLINDER SHAPE" AND PULL DOOR INTO GUIDES ALL THE WAY DOWN, HOLD DOOR IN GUIDES. (SEE FIGURES 6B AND 6C ABOVE FOR NUMBER OF PRETENSION TURNS REQUIRED).

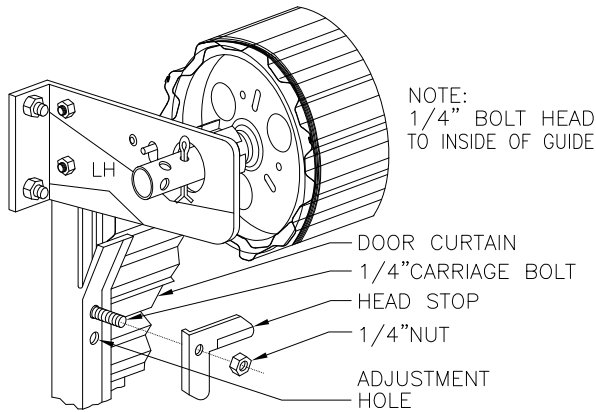


FIGURE 7

STEP 7

WITH CURTAIN STILL IN GUIDES, INSTALL HEAD STOPS WITH ONE 1/4" BOLT AND ONE 1/4" NUT FOR EACH STOP AND TIGHTEN.

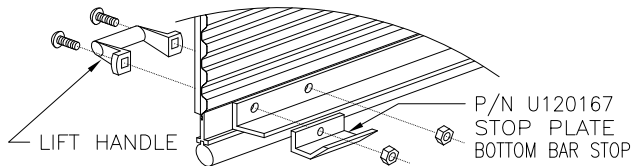


FIGURE 8

STEP 8

INSTALL LIFT HANDLES WITH TWO 1/4" CARRIAGE BOLTS AND NUTS ON OUTSIDE OF DOOR AT CENTER AND L.H. SIDE OF DOOR, ALSO INSTALL STOP PLATES AT EACH END OF BOTTOM BAR WITH 1 BOLT EACH AS SHOWN. IF DOOR HAS MINI LOCK, LIFT HANDLE SHOULD BE LOCATED ON BOTTOM BAR DIRECTLY BELOW LOCK ASSEMBLY, SEE STEP 9 IF SLIDE BOLTS ARE PROVIDED.

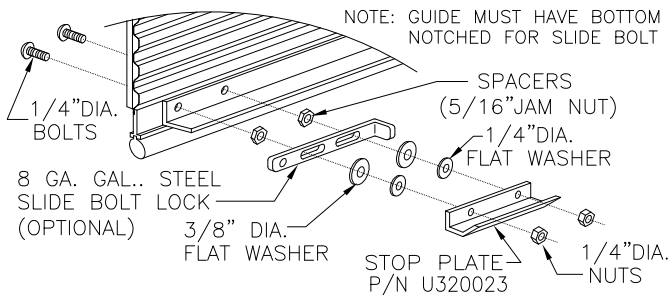


FIGURE 9

STEP 9

INSTALL SLIDE BOLTS (IF SUPPLIED) WITH BOLTS AND HARDWARE ON INSIDE OF DOOR, WITH STOP PLATE AS SHOWN IN FIGURE 9.

STEP 10

BOLT GUIDE RAILS TO BUILDING. KEEP 3/8" CLEARANCE FROM CURTAIN ROLL TO INSIDE OF VERTICAL DOOR GUIDE.

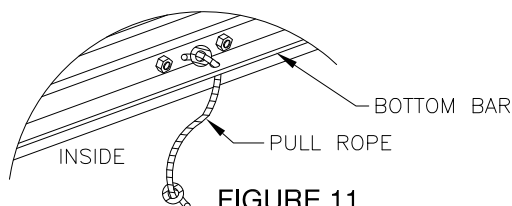


FIGURE 11

STEP 11

DROP PULL ROPE THROUGH HOLE IN CENTER OF BOTTOM BAR AND KNOT BOTH ENDS OF ROPE (SEE FIGURE 11 ABOVE).

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STEP 12

CHECK THE DOOR FOR PROPER SPRING BALANCE.

COLD DOORS

IF DOOR LOWERS EASY AND RAISES HARD, MORE SPRING TENSION IS REQUIRED.

HOT DOORS

IF THE DOOR LOWERS HARD AND RAISES EASY, LESS SPRING TENSION IS REQUIRED.

PROCEED TO STEP 13 IF ROLL UP DOOR IS NOT BALANCED.

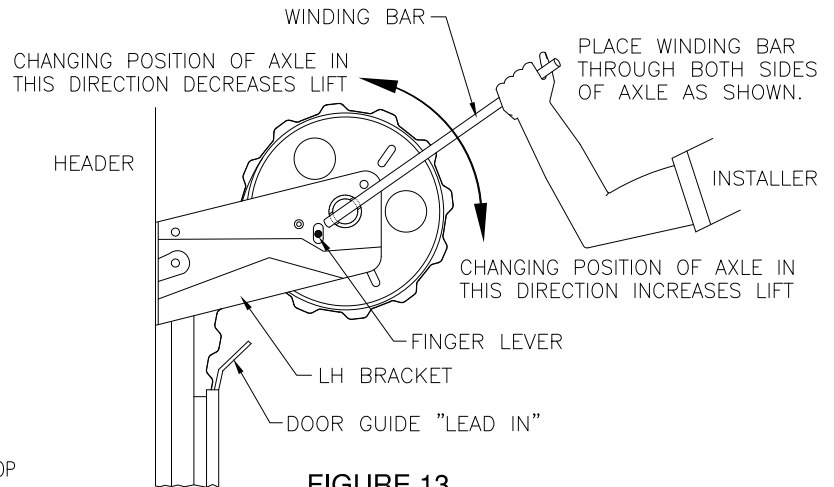


FIGURE 13

CAUTION

USE A PROPER ROUND 1/2 DIAMETER STEEL WINDING BAR OF SUFFICIENT LENGTH TO COMPLETE FINAL ADJUSTMENT ON THE DOOR SPRINGS

STEP 13

RAISE DOOR TO 12" FROM FULL OPEN POSITION: ADD ADDITIONAL SPRING TENSION WITH WINDING BAR IF DOOR IS COLD. DOOR WILL START TO RAISE ON ITS OWN WHEN BALANCE IS CORRECT (SEE FIGURE 13).

REMOVE EXCESS SPRING TENSION WITH WINDING BAR BY LIFTING ADJUSTER PAW WITH FINGER LEVER ON OUTSIDE OF BRACKET AND SLOWLY RELEASING SPRING TENSION 1/6 TURN AT A TIME IF YOUR DOOR IS HOT (SEE FIGURE 13).

STEP 14

CYCLE THE DOOR UP & DOWN A MINIMUM OF 5 TIMES; NOW CHECK DOOR FOR PROPER BALANCE. REPEAT STEP 13 IF NECESSARY.

STEP 15 IF DOOR DRAGS IN GUIDES:

(A) CHECK DOOR MOUNTING BRACKETS FOR PLUMB. (B) ADJUST LOCATION OF GUIDES FOR 3/8" CLEARANCE FROM CURTAIN ROLL END TO INSIDE OF VERTICAL GUIDE RAIL, TOP AND BOTTOM. (C) CHECK GUIDES FOR FOREIGN MATTER, SUCH AS DIRT, ETC. (D) CHECK FOR DAMAGED GUIDES. (E) ADJUST LEAD-IN BEND AT TOP INSIDE OF GUIDES ("LEAD IN" SHOWN IN FIG. 13).

STEP 16 IF DOOR DOES NOT CONTACT FLOOR LEVEL:

(A) USE SPIRIT LEVEL TO CHECK WHETHER DOOR OR FLOOR IS OUT OF LEVEL. (B) CONFIRM DOOR SUPPORT BRACKETS AND GUIDES ARE LEVEL. (C) ROLL DOOR ALL THE WAY UP AND CHECK IF CURTAIN ROLLS STRAIGHT ON DRUMS, END OF DOOR SHOULD BE SQUARE.

STEP 17

SECURE ALL FASTENERS AND CHECK FOR PROPER LOCK OPERATION.

RECOMMENDED SERVICE

1. LUBRICATE THE INSIDE OF DOOR TRACKS AS REQUIRED.
2. CHECK ALIGNMENT OF HEAD STOPS AND TIGHTEN ATTACHING NUTS AND BOLTS.
3. CHECK AND TIGHTEN ALL NUTS, BOLTS AND SCREWS ANNUALLY, THIS MAY BE REQUIRED MORE FREQUENTLY FOR HIGH CYCLING DOORS.
4. USDOOR RECOMMENDS: SERVICING ANY PART OF COUNTERBALANCE SYSTEM INCLUDING SPRINGS, DRUMS, AND AXLE BE PERFORMED BY QUALIFIED DOOR SERVICE PERSONNEL ONLY, USING USDOOR PARTS OR APPROVED EQUAL.

IMPORTANT SAFETY NOTICE

1. OPERATE DOOR ONLY WHEN PROPERLY ADJUSTED AND FREE OF OBSTRUCTIONS.
2. DO NOT PERMIT CHILDREN TO OPERATE OR PLAY WITH ROLL UP DOOR.
3. SHOULD DOOR BECOME HARD TO OPERATE, CONTACT A QUALIFIED DOOR AGENCY.