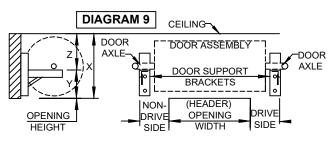


STEP #1 - PREPARATION

- A. CHECK THE HEIGHT AND WIDTH OF THE DOOR OPENING.
- CHECK IF THE DOOR JAMBS ARE PLUMB. B. CHECK IF THE FLOOR AND HEADER ARE LEVEL
- C. CHECK THE DIMENSION PANEL FOR SIDE ROOM AND HEAD ROOM
- D. REQUIREMENTS. (SEE DIAGRAM 9)



CLEARANCE REQUIREMENTS					
HEADROOM					
HEIGHT	Х	Y	Z		
UP TO 8' / 2.4m	20" / 508mm	9-1/2" / 241.3mm	10-1/2" / 266.7mm		
UP TO 10' / 3.04m	21" / 533.4mm	10" / 254.0mm	11" / 279.4mm		
UP TO 16'	23" / 584.2 <mark>m</mark> m	11" / 279.4mm	12" / 304.8mm		

NOTE: "Z" DIMENSION INCLUDES 2" TO ALLOW THE BOTTOM ANGLE TO PASS WHEN SPINNING THE DOOR TO PRETENSION THE SPRINGS. IF HEADROOM IS LIMITED YOU CAN DEDUCT 2" FROM "Z" AND TENSION SPRING USING A PIPE WRENCH.

NOTE: RIGHT HAND DRIVE SHOWN, LEFT HAND OPPOSITE.

MODEL (ALL)	DRIVE SIDE	NON-DRIVE SIDE
PUSH-UP / ROPE	7" / 177.8mm	7" / 177.8mm
4:1 OR 8:1 POCKET WHEEL HOIST	8" / 203.2mm	7" / 177.8mm
2000R-40 OR 72 CHAIN HOIST	7-1/2" / 190.5mm	7" / 177.8mm
ELECTRICAL OPERATOR	7-1/2" / 190.5mm	7" / 177.8mm

NOTE: ABOVE DIMENSIONS APPLY TO 12 GA HD GUIDES ONLY.

	PER SIDE
BACK OF GUIDE	3-1/2" / 88.9mm
END OF AXLE	11" / 279.4mm

STEP #2 - INSTALL SUPPORT BRACKETS

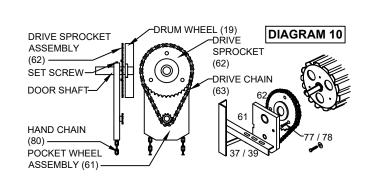
- A. MARK THE HORIZONTAL ANGLE POSITION OF THE SUPPORT BRACKETS.
 B. MARK THE VERTICAL DIMENSION OF THE SUPPORT BRACKET (DIMENSION)
- "Y") BY USING A TRANSIT OR WATER LEVEL. <u>THE DOOR MUST BE LEVEL.</u>
 C. VERIFY THE MINIMUM HEADROOM REQUIREMENT, DIMENSION "X." IF INSUFFICIENT, LOWER THE BRACKETS UNTIL "Z" IS OBTAINED. IF THE BRACKET IS LOWERED BY MORE THAN 2" / 50.8mm THIS WILL REDUCE THE OPENING HEIGHT. THE GUIDE HEIGHT SHOULD BE REDUCED ACCORDINGLY
- D. DRILL HOLES AND FASTEN THE BRACKETS WITH THE PROPER WALL FASTENERS REQUIRED TO OBTAIN A SOLID MOUNTING. USE THROUGH BOLTS ON SOFT BLOCK OR BRICK.

STEP #3 - DRIVE INSTALLATION

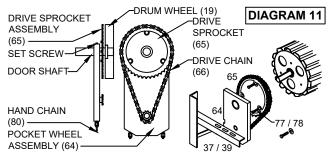
A.

INSTALL THE 4:1 POCKET WHEEL REDUCTION GEAR CHAIN HOIST (IF EQUIPPED) AS FOLLOWS:

- INSTALL DRIVE SPROCKET (62) ON PREFERRED SIDE USING 3/8"x1-1/2" HEX BOLT. (78) AND 3/8" LOCK WASHER (77).
- 2. SLIDE POCKET WHEEL ASSEMBLY (61) ONTO DOOR AXLE AND ALIGN SPROCKETS PARALLEL TO EACH OTHER.
- 3. CONNECT CHAIN DRIVE (63) AROUND BOTH SPROCKETS USING THE MASTER LINK (76) PROVIDED.
- 4. AFTER THE DOOR TENSION HAS BEEN ADJUSTED (STEP 6), TIGHTEN SET SCREWS ON POCKET WHEEL ASSEMBLY.

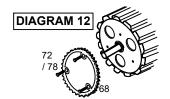


- C. INSTALL THE 8:1 POCKET WHEEL REDUCTION GEAR CHAIN HOIST (IF EQUIPPED) AS FOLLOWS:
 - 1. INSTALL DRIVE SPROCKET (65) ON PREFERRED SIDE USING 3/8" -16 x1-1/2" HEX BOLT (78) AND 3/8" LOCK WASHER (77) PROVIDED.
 - SLIDE POCKET WHEEL ASSEMBLY (64) ONTO DOOR AXLE AND ALIGN SPROCKETS PARALLEL TO EACH OTHER.
 - 3. CONNECT CHAIN DRIVE (66) AROUND BOTH SPROCKETS USING THE MASTER LINK (76) PROVIDED.
 - AFTER THE DOOR TENSION HAS BEEN ADJUSTED (STEP 6), TIGHTEN SET SCREWS ON POCKET WHEEL ASSEMBLY.

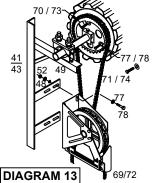


D. INSTALL ELECTRIC OPERATOR KIT (IF EQUIPPED) AS FOLLOWS:

 INSTALL E.O.... SPROCKET (68) TO THE END DRUM OF DOOR ON PREFERRED SIDE USING 3/8"x1-1/2" HEX BOLT (78) AND 3/8" LOCK WASHER (77) PROVIDED.



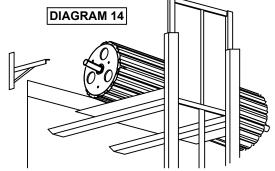
- E. INSTALL 2000R-72 OR 40 REDUCTION GEAR CHAIN HOIST (IF EQUIPPED) AS FOLLOWS:
 - INSTALL DRIVE SPROCKET ON CORRECT SIDE FOR EXTENDED BRACKET USING 3/8" -16x1-1/2" HEX BOLT (78), 3/8" LOCK WASHER (77).
 - INSTALL CHAIN HOIST ASSEMBLY ON TO THE HOIST SUPPORT ANGLES USING 3/8"-16x1-1/2" HEX BOLT (68), 3/8" LOCK WASHER (77), 3/8" FLAT WASHER (48) AND 3/8"-16 HEX NUTS (52) AS SHOWN. (SEE DIAGRAM 13)
 - 3. ÀLIGN BOTH SPRÓCKETS PARALLEL WITH EACH OTHER.
 - 4. CONNECT DRIVE CHAIN (71/74) AROUND BOTH SPROCKETS USING MASTER LINK (76) PROVIDED.



STEP #4 - POSITION DOOR ASSEMBLY

PLACE THE AXLE CLAMP (44) ONTO DOOR SUPPORT BRACKET. LIFT THE Α. DOOR ASSEMBLY UP ONTO THE SUPPORT BRACKET. (SEE DIAGRAM 14).

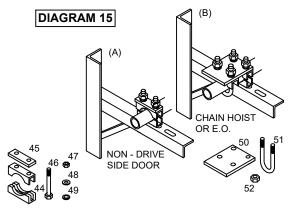
- NOTE:
- POSITION THE DOOR AS CLOSE TO THE HEADER AS POSSIBLE. ALLOW ROOM TO SPIN THE DOOR. DO NOT ALLOW THE DOOR CURTAIN TO SCRAPE THE HEADER.
- DO NOT USE FORKLIFTS OR GENIE LIFTS WITH UNPROTECTED ARMS/FORKS. THIS CAN CAUSE IRREPARABLE DAMAGE TO DOOR CURTAIN.



STEP #5 - INSTALL AXLE HARDWARE

MANUAL PUSH-UP/ROPE DRIVE: A.

- PLACE THE AXLE CLAMP (44) ONTO HORIZONTAL MEMBER OF THE 1. SUPPORT BRACKET (36-43) AND UNDER THE DOOR AXLE.
- PLACE AXLE CLAMP (44) AND STANDARD KEEPER PLATE (45) ON TOP 2. OF THE DOOR AXLE AS SHOWN.
- FASTEN AXLE CLAMPS AND STANDARD KEEPER PLATE TOGETHER 3 USING 3/8"x3-1/2" HEX BOLTS (46), 3/8" LOCK WASHERS (49), 3/8" FLAT WASHERS (48), AND 3/8" NUTS (FINE THREAD) (47)---TIGHTEN SECURELY



DRIVE SIDE FOR POCKET WHEEL REDUCTION DRIVE CHAIN HOIST AND E.O B. KITS.:

- PLACE THE AXLE CLAMP (44) ONTO HORIZONTAL MEMBER OF THE 1. SUPPORT BRACKET (36-43) AND UNDER THE DOOR AXLE.
- 2 PLACE AXLE CLAMP (44) AND STANDARD KEEPER PLATE (45) ON TOP OF THE DOOR AXLE AS SHOWN.
- FASTEN AXLE CLAMPS AND STANDARD KEEPER PLATE TOGETHER 3 USING 3/8"x3-1/2" HEX BOLTS (46), 3/8" LOCK WASHERS (49), 3/8" FLAT WASHERS (48), AND 3/8" NUTS (FINE THREAD) (47)---TIGHTEN SECURELY.

NOTE:

- REQUIRES A MINIMUM OF 40 ft-lb / 54.23 Nm TORQUE TO PROPERLY SECURE HARDWARE
- EXTENDED KEEPER PLATE ONLY FOR DOORS SIZES 16' / 4.8m x16' / 4.8m & I ARGER
- NON-DRIVE SIDE FOR POCKET WHEEL REDUCTION DRIVE CHAIN HOIST С AND E.O. KITS:
 - PLACE THE AXLE CLAMP (44) ONTO HORIZONTAL MEMBER OF THE 1. SUPPORT BRACKET (36-43) AND UNDER THE DOOR AXLE.
 - PLACE AXLE CLAMP (44) AND EXTENDED KEEPER PLATE (50) ON TOP OF THE DOOR AXLE AS SHOWN.
 - FASTEN AXLE CLAMPS USING 3/8"x3-1/2" HEX BOLTS (46) 3/8" NUTS 3 (FINE THREAD) (46), 3/8" FLAT WASHERS (48), 3/8" LOCK WASHERS (49) TO ATTACH EXTENDED KEEPER PLATE AS SHOWN. TIGHTEN SECURELY
- D LOCATE AXLE HARDWARE AS SHOWN FOR FINAL POSITION. (SEE DIAGRAM 16)
- "A" DIMENSION UP TO 10'/3.04m 9-1/4" / 234.9mm 12'/3.65m 10" / 254mm 14'/4.26m 10-1/2" / 266.7mm 11-1/8" / 282.5mm 16'/4 87m 11-3/4" / 298.4mm 18'/5.48m 20'/6.09m 12-1/4" / 311.1mm DIAGRAM 16 NOTE: SUPPORT BRACKET DIMENSIONS ARE APPROXIMATE POSITION FOR 1 OPTIMAL PERFORMANCE. ADJUST AS NEEDED. TO SPIN DOOR FOR PRETENSIONING SPRINGS, MIGHT REQUIRE MOVING 2. THE DOOR AWAY FROM THE WALL TO ALLOW BOTTOM BAR TO PASS. IF SO, LOOSEN HARDWARE ONE SIDE AT A TIME & SLIDE DOOR AXLE TOWARD WALL TO ITS BEST POSITION. BE CAREFUL DOOR WILL BE UNDER TENSION. **STEP #6 - PRE-TENSION SPRINGS** INSTALL CHAIN CLIP (79) APPROXIMATELY 4'-0" ABOVE FLOOR ON CHAIN Α. OPERATED DOORS. INSTALLATION MUST BE SECURE. в APPLY PRE-TENSION TO THE SPRINGS BY ROTATING THE DOOR TWO (2) TURNS IN A FORWARD DIRECTION (SEE DIAGRAM 17). THE BOTTOM ANGLE IS TO BE IN A 6 O'CLOCK POSITION. **DIAGRAM 17** DIAGRAM 18 LESS TENSION MORE TENSION C. IF YOU'RE UNABLE TO ROTATE DOOR TO PRE-TENSION, USE A PIPE WRENCH TO ROTATE AXLE IN OPPOSITE DIRECTION. WITH ONE PERSON ON EACH SIDE OF DOOR, EACH PERSON SHOULD FIRMLY PLACE A LARGE PIPE WRENCH ON THE DOOR AXLE (SEE DIAGRAM 18). PULL DOWN TO APPLY TENSION INCREMENTALLY UNTIL YOU ACHIEVE TWO FULL ROTATIONS OF THE DOOR AXLE. THEN TIGHTEN THE AXLE HARDWARE. D. REPEAT STEP "C" IF ADJUSTMENT IS NECESSARY. STEP #7 -REMOVE PLASTIC WRAPPING TAKE HOLD OF THE DOOR BY THE BOTTOM ANGLE AND REMOVE THE A. OUTER WRAPPING AND TAPE THAT HOLDS THE DOOR IN A ROLL. CAREFULLY LOWER THE DOOR DOWN AND SECURE THE DOOR В APPROXIMATELY 4' FROM THE FLOOR TO PREVENT UPWARD TRAVEL USING CLAMPS OR HOOK HAND CHAIN IF A CHAIN HOIST DOOR. **STEP #8 - INSTALL DOOR STOPS** (LIFT CLIPS) AND SLIDE BOLT LOCKS INSTALL THE DOOR STOPS (53) AND THE SLIDE BOLT LOCKS (54) USING A. 1/4"x1-1/4" CARRIAGE BOLT (55), 1/4" FLAT WASHER (58), 5/16" NUT (57), AND 1/4" SELF LOCKING NUT (56) PER SIDE. R ELECTRONICALLY OPERATED DOORS STILL REQUIRE DOOR STOPS A (LIFT CLIPS) TO BE INSTALLED. WINDLOCK "CERTIFIED" DOORS REQUIRE SLIDE BOLT LOCKS TO BE INSTALLED FOR PROPER WINDLOAD PROTECTION. ELECTRICAL INTERLOCKS ARE HIGHLY RECOMMENDED NOTE: WHEN INSTALLING SLIDE BOLT LOCKS THE THREADS FROM THE CARRIAGE HEAD BOLTS PROTRUDING FROM THE SELF LOCKING NUT SHOULD BE REMOVED TO A FLUSH POSITION WITH SELF LOCKING NUT TO PREVENT DOOR FROM HANGING UP ON THE HEAD STOPS. CLAMP A PAIR OF VICE GRIPS ON TO THE THREAD AND BREAK OFF, IF NECESSARY. Car DIAGRAM 19 55 58

0

57

"A"

