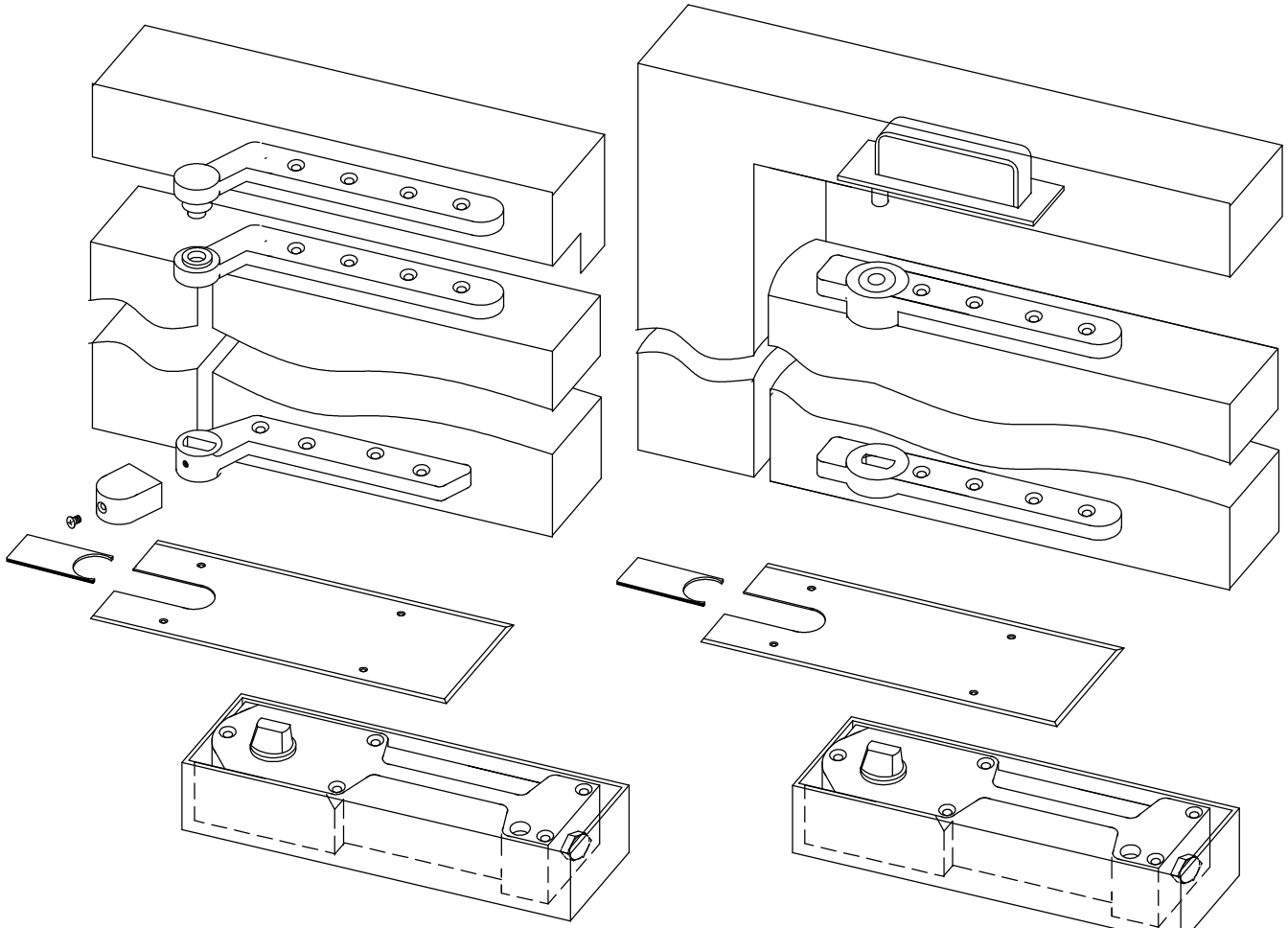
RELEASE FOR PRODUCTION	DATE	



OFFSET HUNG FLOOR CLOSER
EXPLODED VIEW

CENTER HUNG FLOOR CLOSER
EXPLODED VIEW

MAINTENANCE

THE INTERNAL MECHANISM OF THE FLOOR CLOSER IS IMMERSED IN OIL AND HAS BEEN DESIGNED SO THAT IT REQUIRES NO MAINTENANCE. IT IS PROTECTED FROM MISUSE BY AN OVERLOAD SAFETY FEATURE. ON NO ACCOUNT SHOULD ANY ATTEMPT BE MADE TO DISMANTLE A FLOOR CLOSER SINCE IT CONTAINS A PRE-STRESSED SPRING.

ONCE THE FLOOR CLOSER HAS BEEN INSTALLED AND ADJUSTED TO SUIT LOCAL CONDITIONS NO FURTHER MAINTENANCE SHOULD BE NECESSARY. HOWEVER, AN ANNUAL CHECK SHOULD ENSURE THAT:

- THE DOOR CLOSES FREELY AND POSITIVELY FROM ANY ANGLE WITHOUT SLAMMING.
- ALL ATTACHMENT SCREWS TO THE UNIT AND ACCESSORIES ARE TIGHT.

ANY FAILURE TO CLOSE THE DOOR SHOULD BE INVESTIGATED. IT MAY INDICATE THAT THE POWER OF THE FLOOR CLOSER REQUIRES ADJUSTMENT OR THAT THE POWER OF THE FLOOR CLOSER REQUIRES ADJUSTMENT OR THAT EXCESSIVE FORCE IS REQUIRED TO CLOSE THE DOOR DUE TO DISTORTION OR MIS-ALIGNMENT.

DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED		APPROVALS	DATE
DECIMAL DIMENSIONS .XX ± .010		APPROVED	
DECIMAL DIMENSIONS .XXX ± .005		CHECKED	
ANGULAR ± . °	FRACTIONAL ± 1/64	DRAWN RM	5.15.04
FILE NO. 10-1137-1	MATERIAL	SCALE NONE	
NEXT ASSY.	FINISH	MAINTENANCE GUIDE 900 SER. FLOOR CLOSER	SHEET 1 OF 4 SHEETS
QTY. USED	HEAT TREAT	DWG. NO. 10-1137-1	REV. A

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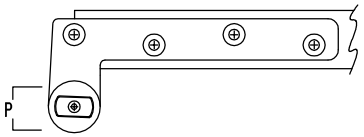
LOS ANGELES, CALIF. 90023

RELEASE FOR PRODUCTION	DATE	

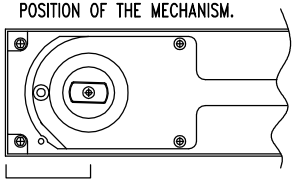
FOR OFFSET HUNG DOORS

1. NOTE THE POSITION OF THE PIVOT CENTER RELATIVE TO THE DOOR. OFFSET ARMS AND PIVOTS CAN BE (25) 1" OR (36MM) 1-7/16" OFFSET.



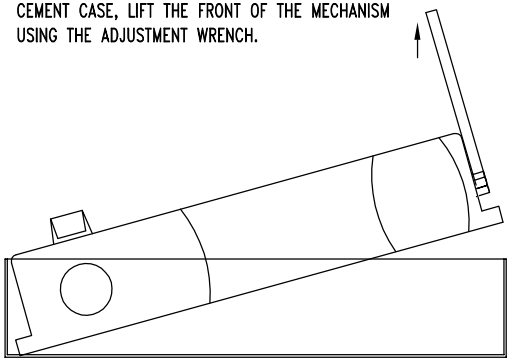
P=25(1") OR (36MM) 1-7/16"
THE OFFSET IS MEASURED FROM THE FACE OF THE DOOR TO THE PIVOT CENTER.

2. NOTE THE MINIMUM TO THE MAXIMUM SPINDLE POSITION OF THE MECHANISM.

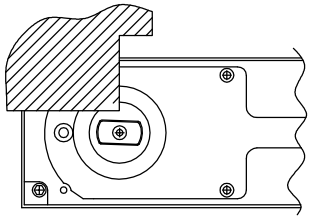


(45)1-25/32-(51MM) 2" ADJUSTMENT

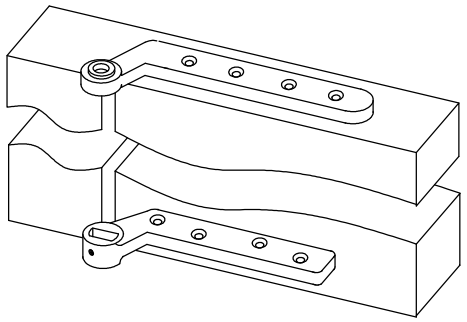
3. REMOVE THE MECHANISM FROM THE CEMENT CASE. THE SCREWS FOR THE REMOVABLE CLAMPS (B) SHOULD BE UNSCREWED 10 TURNS EACH. TAP THE CLAMPS DOWN TO REMOVE THEM FROM THE SOCKETS IN THE CEMENT CASE, LIFT THE FRONT OF THE MECHANISM USING THE ADJUSTMENT WRENCH.



4. SET THE CEMENT CASE IN THE FLOOR WITH THE ATTACHED CLAMPS (A) NEAREST THE FRAME TAKING CARE TO ALIGN THE SPINDLE POSITION WITH THE PIVOT CENTER OF THE DOOR. ALLOW A (3MM) 1/8" GAP BEHIND THE DOOR.



5. MORTISE INTO THE DOOR ON THE PIVOT CENTERLINE THE OFFSET ARM AND THE BEARING HALF OF THE OFFSET PIVOT ASSEMBLY. MORTISE INTO THE TOP JAMB, THE PIVOT HALF OF THE OFFSET PIVOT ASSEMBLY.

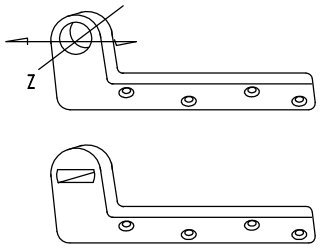


6. REPLACE THE MECHANISM IN THE CEMENT CASE. ENSURE THE REMOVABLE CLAMPS ARE ENGAGED INT THEIR SOCKETS AND TIGHTEN THE CLAMP SCREWS (A AND B). SCREW ON THE SPINDLE COVER.

7. POSITION THE DOOR OVER THE FLOOR CLOSER AND LOCATE THE ARM OVER THE SPINDLE. TRY TO KEEP THE DOOR AS CLOSE AS POSSIBLE TO VERTICAL TO AVOID EXCESSIVE LOADING ON THE SPINDLE.

8. LOCATE THE TOP PIVOT AN LOOSELY BOLT IN PLACE.

9. ADJUST THE VERTICAL GAPS TO (3MM) 1/8" BETWEEN THE DOOR AND FRAME USING THE TOP CENTER LATERAL ADJUSTMENT AND BY SLIDING THE MECHANISM WITHIN THE CEMENT CASE. FULLY TIGHTEN THE TOP CENTER PIVOT RETAINING SCREW (Z).



10. ADJUST THE GAP AT THE TOP OF THE DOOR TO (3MM) 1/8" USING THE HEIGHT ADJUSTMENT SCREWS (C). ENSURE THE MECHANISM IS LEVEL. LONGER SPINDLE INSERTS ARE AVAILABLE IS NECESSARY.

11. FULLY TIGHTEN EACH CLAMP SCREW (A&B). FOR (25MM) 1" OFFSET PIVOTS IT MAY NOT BE POSSIBLE TO GAIN ACCESS TO AL FOUR SCREWS. TIGHTEN DOWN THE HEIGHT ADJUSTMENT SCREWS (C) FOR A FIRM ATTACHMENT.

12. ADJUST THE SPEED CONTROL (K) TO GIVE A SMOOTH CLOSING SPEED OF APPROX. 5 TO 7 SECONDS CLOSING FROM 90° OPEN.

13. IF THE DOOR IS PARTICULARLY HEAVY AND/OR WIDE, INCREASE THE BACKCHECK RESISTANCE OF THE MECHANISM BY INCREASING THE POWER OF THE THE SPRING (I). THE FLOOR CLOSER IS SET IN THE FACTORY ON POWER SIZE (3). KEEP ANY POWER INCREASE TO A MIN. SINCE THE LOWER THE POWER, THE EASIER IT IS TO USE THE DOOR. (TURN CLOCKWISE TO INCREASE OR COUNTERCLOCKWISE TO DECREASE THE POWER).

14. SCREW ON THE COVER PLATE FOR THE MECHANISM, ATTACH THE ARM PIVOT COVER.

DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED	APPROVALS	DATE
DECIMAL DIMENSIONS .XX ± .010	APPROVED	
DECIMAL DIMENSIONS .XXX ± .005	CHECKED	
ANGULAR ± . ° FRACTIONAL ± 1/64	DRAWN RM	5.15.04
FILE NO. 10-1137-2 / MATERIAL	SCALE NONE	
NEXT ASSY. / FINISH	OFFSET HUNG APPLICATION 900 SER. FLOOR CLOSER	SHEET 2 OF 4 SHEETS
QTY. USED / HEAT TREAT	DWG. NO. 10-1137-2	REV. A

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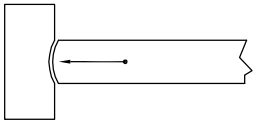
LOS ANGELES, CALIF. 90023

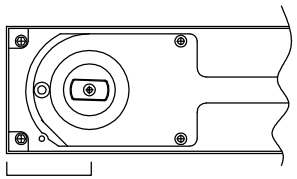
FOR CENTER HUNG DOORS

RELEASE FOR PRODUCTION	DATE	

1. DETERMINE THE HEEL RADIUS OF THE DOOR (DIMENSION I).

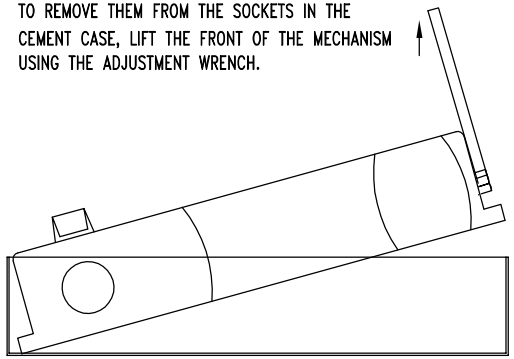


2. NOTE THE MINIMUM TO THE MAXIMUM SPINDLE POSITION OF THE MECHANISM.

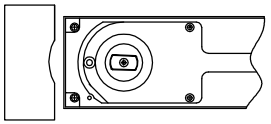


(45)1-25/32-(51MM) 2" ADJUSTMENT

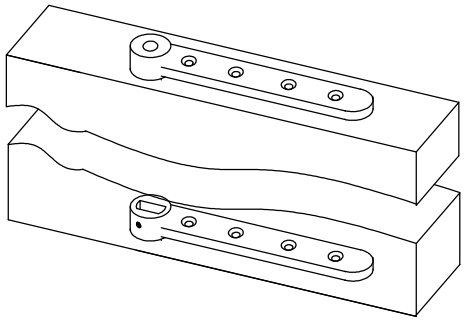
3. REMOVE THE MECHANISM FROM THE CEMENT CASE. THE SCREWS FOR THE REMOVABLE CLAMPS (B) SHOULD BE UNSCREWED 10 TURNS EACH. TAP THE CLAMPS DOWN TO REMOVE THEM FROM THE SOCKETS IN THE CEMENT CASE, LIFT THE FRONT OF THE MECHANISM USING THE ADJUSTMENT WRENCH.



4. SET THE CEMENT CASE IN THE FLOOR WITH THE ATTACHED CLAMPS (A) NEAREST THE FRAME TAKING CARE TO ALIGN THE SPINDLE POSITION WITH THE PIVOT CENTER OF THE HEEL RADIUS OF THE DOOR. ALLOW A 1/8" GAP BEHIND THE DOOR.



5. MORTISE INTO THE DOOR ON THE PIVOT CENTERLINE THE OFFSET ARM AND THE BEARING HALF OF THE OFFSET PIVOT ASSEMBLY. MORTISE INTO THE TOP JAMB, THE PIVOT HALF OF THE OFFSET PIVOT ASSEMBLY.

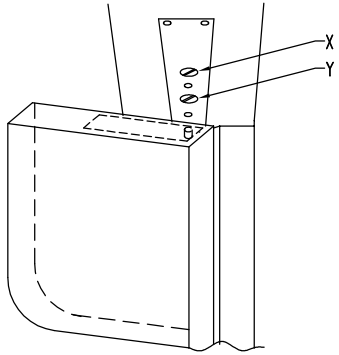


6. REPLACE THE MECHANISM IN THE CEMENT CASE. ENSURE THE REMOVABLE CLAMPS ARE ENGAGED INT THEIR SOCKETS AND TIGHTEN THE CLAMP SCREWS. SCREW ON THE SPINDLE COVER.

7. POSITION THE DOOR OVER THE FLOOR CLOSER AND LOCATE THE ARM OVER THE SPINDLE.

8. CAREFULLY OPEN THE DOOR AND ADJUST DOWN THE WALKING BEAM PIVOT TO ENGAGE IN THE BEARING IN THE DOOR.

9. ADJUST THE VERTICAL GAPS TO (3MM) 1/8" BETWEEN THE DOOR AND FRAME USING THE TOP CENTER LATERAL ADJUSTMENT (X) AND BY SLIDING THE MECHANISM WITHIN THE CEMENT CASE. FULLY TIGHTEN THE TOP PIVOT RETRACTING SCREW (Y) UNTIL THE POSITION INDICATORS ARE LEVEL WITH THE BASE PLATE.



10. CHECK THAT THE DOOR RETURNS TO THE CORRECT CENTER POSITION.

11. ADJUST THE GAP AT THE TOP OF THE DOOR TO (3MM) 1/8" USING THE HEIGHT ADJUSTMENT SCREWS (C), SLACKENING THE CLAMP SCREWS (A & B) AS THE MECHANISM RISES. ENSURE THE MECHANISM IS LEVEL. LONGER SPINDLE INSERTS ARE AVAILABLE IF NECESSARY.

12. FULLY TIGHTEN EACH CLAMP SCREW (A&B) AND TIGHTEN THE HEIGHT ADJUSTMENT SCREWS (C) FOR A FIRM ATTACHMENT.
DOWN THE HEIGHT ADJUSTMENT SCREWS (C) FOR A FIRM ATTACHMENT.

13. ADJUST THE CENTER POSITION OF THE DOOR USING THE CENTERING ADJUSTER (H).

14. ADJUST THE SPEED CONTROL (K) TO GIVE A SMOOTH CLOSING SPEED OF APPROXIMATELY 5 TO 7 SECONDS CLOSING FROM 90° TO OPEN.

15. IF THE DOOR IS PARTICULARLY HEAVY AND/OR WIDE, INCREASE THE BACKCHECK RESISTANCE OF THE MECHANISM BY INCREASING THE POWER OF THE THE SPRING (I). THE FLOOR CLOSER IS SET IN THE FACTORY ON POWER SIZE (3). KEEP ANY POWER INCREASE TO A MIN. SINCE THE LOWER THE POWER, THE EASIER IT IS TO USE THE DOOR. (TURN CLOCKWISE TO INCREASE OR COUNTERCLOCKWISE TO DECREASE THE POWER).

14. SCREW ON THE COVER PLATES OF THE MECHANISM, AND TOP PIVOT.

DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED		APPROVALS	DATE
DECIMAL DIMENSIONS .XX ± .010		APPROVED	
DECIMAL DIMENSIONS .XXX ± .005		CHECKED	
ANGULAR ± . °	FRACTIONAL ± 1/64	DRAWN	RM 5.15.04
FILE NO. 10-1137-3	MATERIAL	SCALE NONE	
NEXT ASSY.	FINISH	CENTER HUNG APPLICATION 900 SER. FLOOR CLOSER	
QTY. USED	HEAT TREAT		

jackson CORPORATION
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LOS ANGELES, CALIF. 90023

SHEET 3 OF 4 SHEETS

DWG. NO.	REV.
10-1137-3	A

FLOOR CLOSER SERIES 900

RELEASE FOR PRODUCTION	DATE	

INTRODUCTION

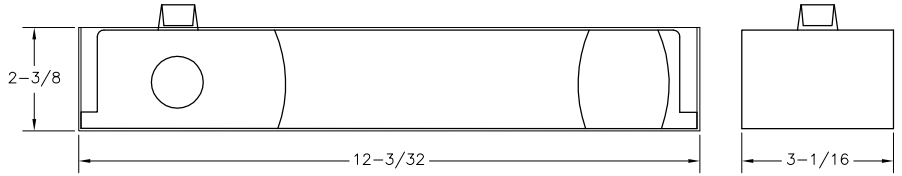
SERIES 900 FLOOR CLOSERS CONSIST OF A COMPREHENSIVE RANGE OF CLOSER UNITS,ACCESSORIES AND COVER PLATES.
THESE ARE SUITABLE FOR CENTER HUNG AND OFFSET HUNG INSTALLATIONS WITH OPENINGS UP TO 180°.
900 SERIES CLOSERS ARE FOR UNIVERSAL INSTALLATIONS AND HAVE POWER ADJUSTMENT IN RANGE, SIZES 1 THRU 6.
THE 900 SERIES HAVE A MICRO CENTER ADJUSTMENT WHICH IS PARTICULARLY SUITABLE FOR USE ON GLASS DOOR INSTALLATIONS. CEMENT CASE DEPTH 2-3/8.
THE 900 SERIES FLOOR CLOSER HAVE INTERCHANGEABLE SPINDLES AND A SPIRIT LEVEL TO EASE ON-SITE INSTALLATION.
OFFSET HUNG ACCESSORIES ARE AVAILABLE WITH EITHER 1" OR 1-7/16" OFFSET AND HAVE LATERAL ADJUSTMENT ±1/8
CENTER HUNG ACCESSORIES HAVE A HEAVY DUTY BALL BEARING TOP PIVOT WITH LATERAL ADJUSTMENT AND DRESS PLATE.
A FULL RANGE OF EXTENSION SPINDLES AND ACCESSORIES FOR WOOD, METAL AND GLASS DOORS ARE AVAILABLE.
CONSULT FACTORY.

WARNING: FAILURE TO COMPLY WITH THE INSTALLATION PROCEDURES RENDERS THE WARRANTY VOID.

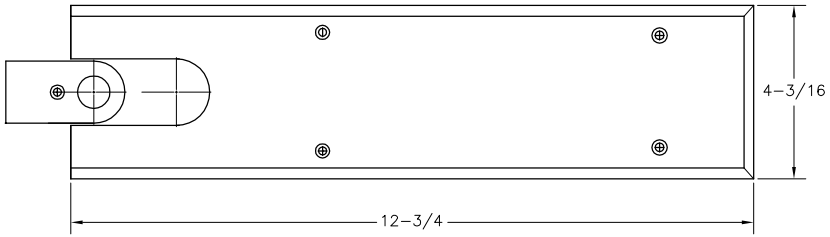
1-3/4-2" ADJUSTMENT

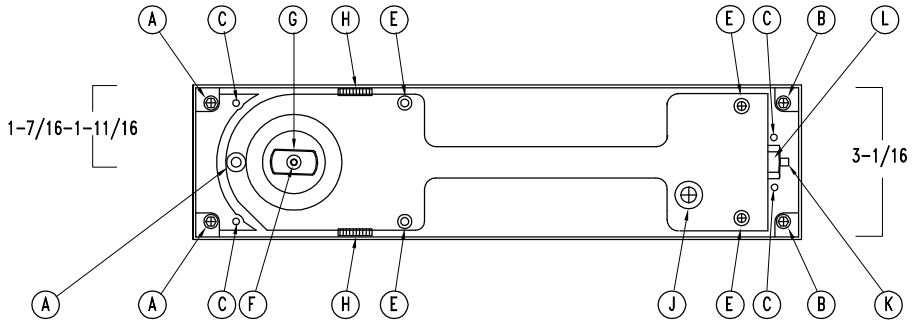
CEMENT CASE

DIMENSIONS



COVER PLATES

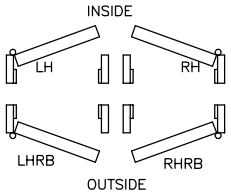




LEGEND

A	ATTACHED CLAMP SCREWS (2)	G	SPINDLE INSERT
B	REMOVALBE CLAMP SCREWS (4)	H	CENTER ADJUSTMENT GEARS
C	HEIGHT ADJUSTMENT SCREWS (4)	J	SPIRIT LEVEL
D	SPINDLE COVER ATTACHMENT SCREW (1)	K	SPEED CONTROL VALVE
E	COVER PLATE ATTACHMENT SCREWS (4)	L	POWER AND BACKCHECK ADJUSTMENT CONTROL
F	SPINDLE INSERT ATTACHMENT PIN		

WARNING: SPECIAL PRECAUTIONS ARE REQUIRED FOR BOTH CENTER HUNG AND OFFSET HUNG INSTALLATIONS. FOR DOORS OVER 660 LBS (OFFSET HUNG). 1102 LBS (CENTER HUNG), CONSULT FACTORY.
*FIGURES BASED ON A ZERO EXTENSION SPINDLE.



FILE NO. 10-1137-4	MATERIAL	DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED DECIMAL DIMENSIONS .XX ± .010 DECIMAL DIMENSIONS .XXX ± .005 ANGULAR ± . ° FRACTIONAL ± 1/64	APPROVALS	DATE	jackson CORPORATION 3447 UNION PACIFIC AVE. LOS ANGELES, CALIF. 90023
NEXT ASSY.	FINISH		APPROVED		
QTY. USED	HEAT TREAT		CHECKED		
			DRAWN RM	5.15.04	
			SCALE NONE		GENERAL DATA SHEET 900 SER. FLOOR CLOSER

SHEET 4 OF 4 SHEETS

DWG. NO. 10-1137-4 REV. A