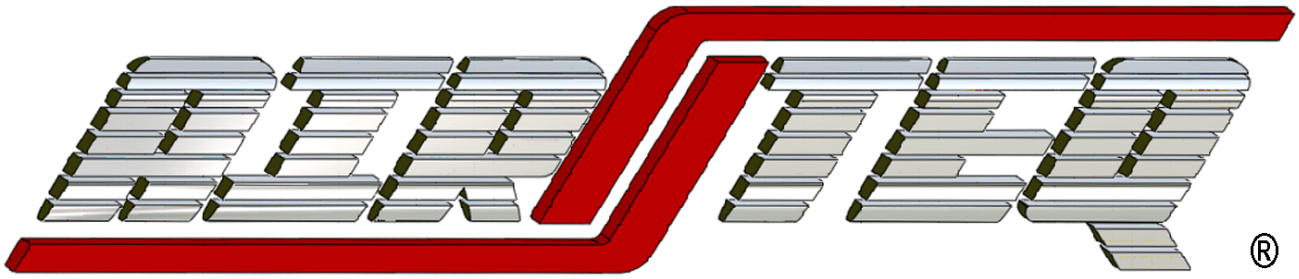
SERVICE MANUAL

MODEL
7300
SLIDING DOOR
OPERATOR



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REVISION HISTORY:

PRELIMINARY RELEASE	10/2011
Spring 2013 Release	3/2013

LUBRICATION INSTRUCTIONS

MODEL
7300
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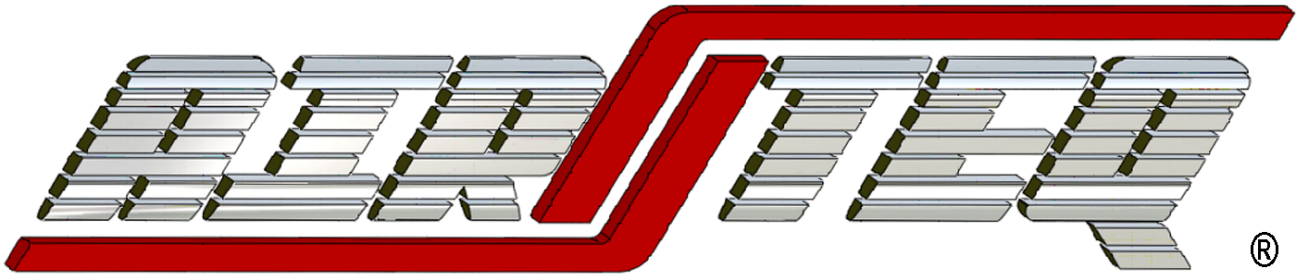
OPERATOR



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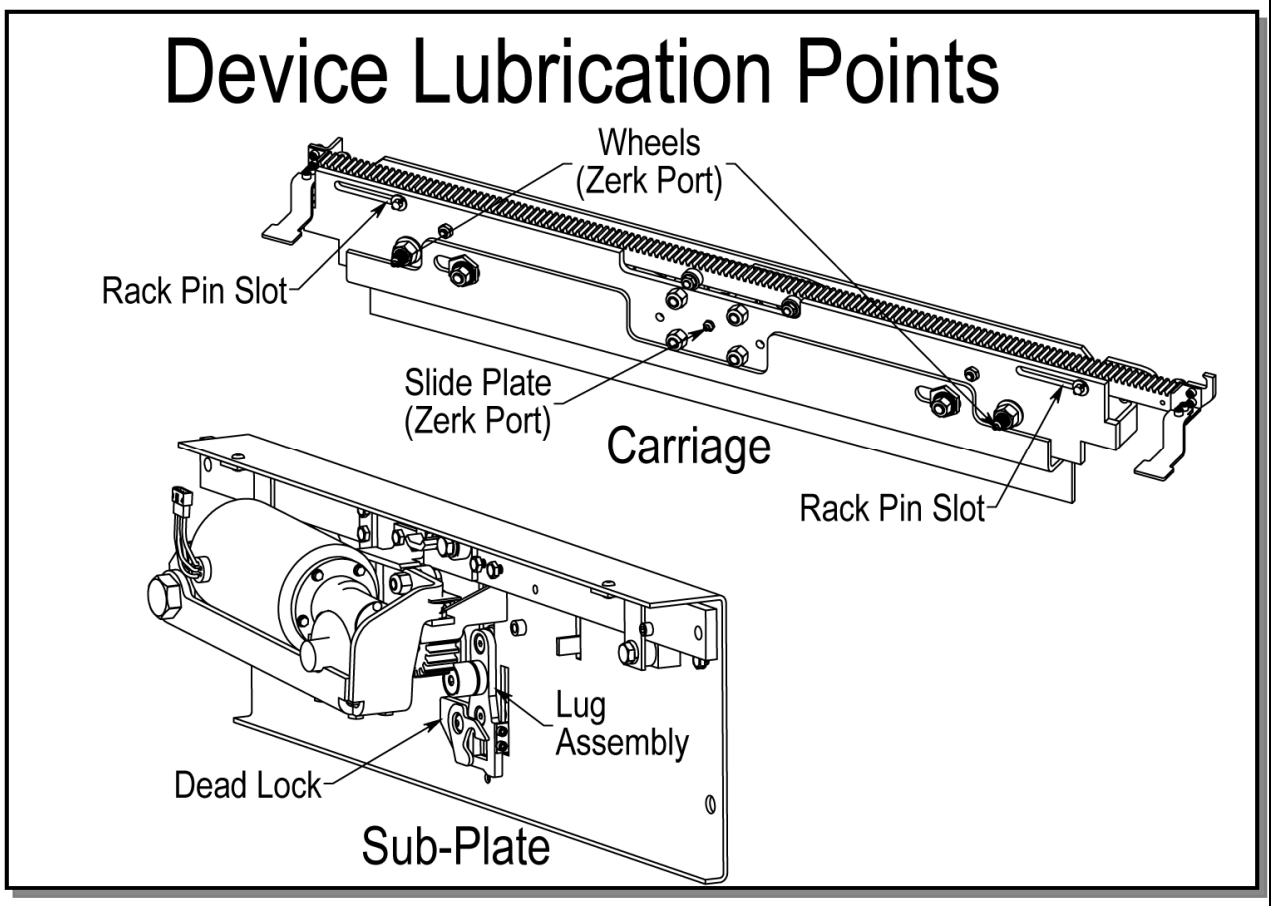
LUBRICATION

On high traffic doors (Sally Ports & high use corridor devices) check device lubrication once a year. On cell and other devices check lubrication every two years. The following components should be well lubricated in the areas shown with Super Lube ® Multi-Purpose Synthetic Lubricant/Grease or equivalent:

1. Wheels
2. Slide Plate
3. Carriage Rack Pin Slots
4. Lug Assembly
5. Dead Lock



DO NOT lubricate the Roller Track

- Keep roller track free of any accumulation of dirt, dust, or other debris.
- If the track does not feel smooth, go over the track with a scouring pad and then wipe off track with a clean lint-free cloth
- Do not use steel wool, sandpaper, or anything that may leave grit or fibers on the track.

DEVICE OPERATION CHECK

MODEL 7300 SLIDING DOOR OPERATOR

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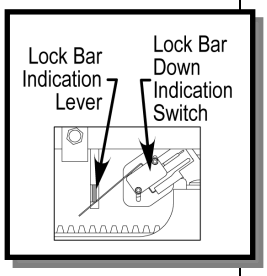
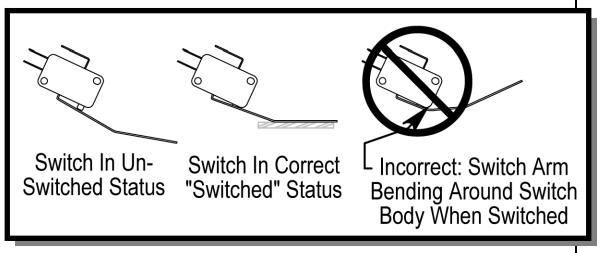
DEVICE OPERATION CHECK

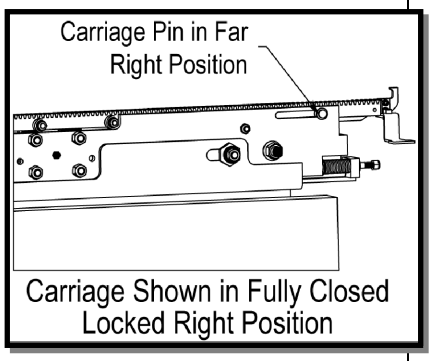
Electrically operate device Open and Closed & check the following items



- Device unlocking (Opening & Closing) should be immediate & sure, with no gear grinding sound
- DOOR motion should be smooth.
  - DOOR should not rub on lock column, cover, or wall.
  - DOOR should enter and exit receiver channel without rubbing or binding
  - DOOR should roll smoothly. Bottom door guide should not bind or have any interference passing through the lock column guide notch
- Lock Bar Down Status switch should trip only when lock bar is fully down
- Door Position Switches should switch just at or slightly after door motion stops but before carriage rack post travel finishes. Allowing the device motor to "coast" into the full locked position.
  - Door Position Switches should allow carriage switch arm to slide by, remaining switched but not bending the switch arm around the switch body ➔



- After device finishes full travel/locking the Carriage rack should be in full "post" travel position. Far left (after left door operation) or far right (after right door operation): Right Close Device in locked right position shown ➔



- Device should provide secure indication when door is closed and lock bar is completely down ***only***.
  - If control panel does not show proper secure indication:
    - Operate device with hand held tester and check indication lights on the tester
    - If tester lights show proper indication, check control panel wiring into the device and / or check control panel programming
    - If tester does not show proper indication check switch adjustments, device wiring & switch integrity (i.e. is there a bad switch)

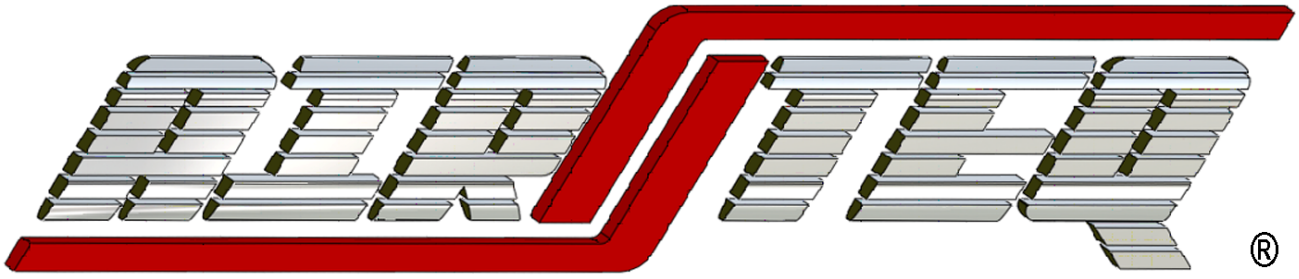
Operate Manual Override function at both full open and full closed

1. Pull override lever fully into manual override:
   - Door should move freely by hand through full range of motion, no gear grinding/ticking & bottom door guide should not bind or demonstrate any interference while passing through the lock column guide notch
2. When override lever is released – but not returned to the locked position:
   - Door can be "slammed" shut or open after which the door cannot be moved manually.
   - Note: Door may need to be run electrically slightly open and then back closed for secure indication depending on how hard the door was manually closed
3. When override lever is pushed down into the locked position and locked into place:
   - Door should lock into place (mid travel or open / closed) and cannot be moved by hand
   - Note: Door may need to be run electrically slightly open and then back closed for secure indication depending on status of the device when the lever was locked down
   - The Manual Override linkage should keep the motor down tab in place over the motor bracket bearing - not allowing the motor pinion gear to disengage from the rack.
4. Operate device electrically after manual override is locked down to verify Motor Hold Down.

- Hold DOOR back (stall) during travel to confirm torque limiting function
  - DOOR should resume smooth travel when released.
- Verify DEVICE lubrication - especially wheel bearings and lock slide (the 3 zerk fittings on carriage)

MECHANICAL ADJUSTMENT INSTRUCTIONS

MODEL 7300 SLIDING DOOR OPERATOR



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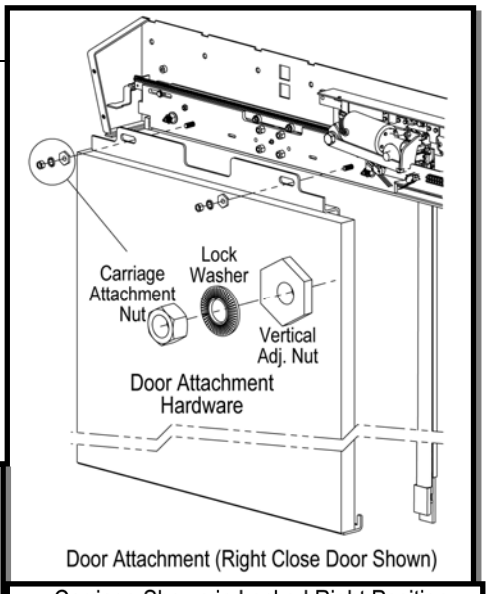
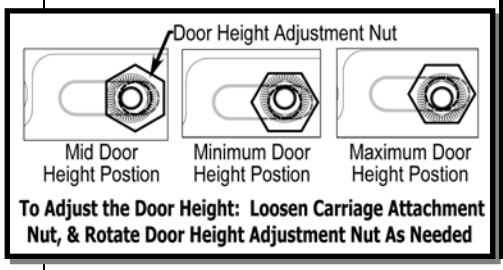
MECHANICAL ADJUSTMENTS

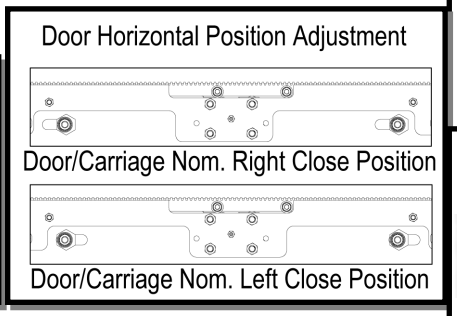
DOOR ADJUSTMENTS

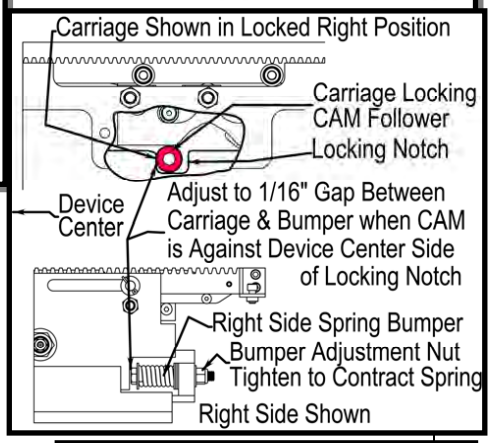
- To re-position the door, loosen the Carriage Attachment Nuts.
- To adjust the door horizontally (re-positioning door on the carriage) use leverage between the carriage & door hanger to slide door hanger into desired horizontal position on carriage.
- To reposition the door height, turn the Vertical Adjustment Nuts until the door end is at the desired height.
- After Vertical and/or Horizontal Adjustment(s), secure the Carriage Attachment Nuts.



Door Attachment (Right Close Door Shown)







PROPER DOOR POSITION

- Door leading edge (edge entering receiver) should match receiver column.
- Lock Bar should fall freely into Bottom Door Guide Notch

DOOR POSITIONING PROCEDURE

1.1 Operate door into a mid travel position

1.2 Loosen the Door Attachment Nuts. Vertically plumb the door leading edge by turning the Vertical Adjustment Nuts.

1.3 Manually Operate the Carriage to the Locked Right Position. Verify or Adjust the Right Side Spring Bumper as shown to create a 1/16" Gap between the end of the bumper bolt and the Carriage. Likewise move the Carriage to the Locked Left Position and Verify or Adjust the Left Side Spring Bumper.

1.4 Mark a 2" Gap centered on the trailing edge Bottom Door Guide Notch as shown

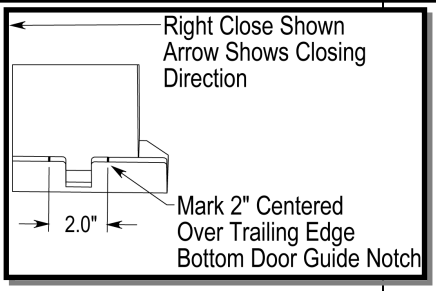
1.5 Operate carriage into the Fully Closed / Locked Position - Right Close Door Shown (Left Close door would be far left) ➔

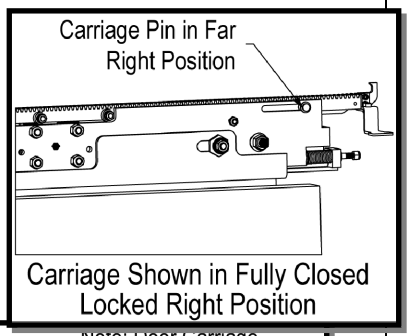
1.6 With carriage remaining in the closed locked position: Horizontally move door (see 'Door Adjustments' above) into Proper Door Closed Position as shown (trailing 2" door guide mark is just visible entering the lock column notch.)

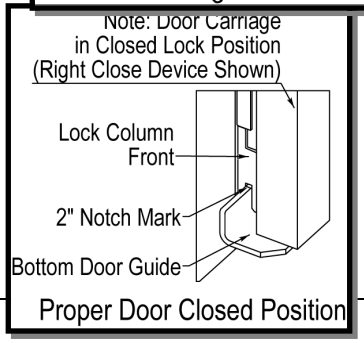
1.7 Secure Carriage Attachment Nuts

1.8 Verify operation:

- In full locked closed position and full locked open position: <u>Manually raise and release the lock bar indication lever. The lock bar should lift without resistance lift and should freely & completely fall back into the full locked position.</u>

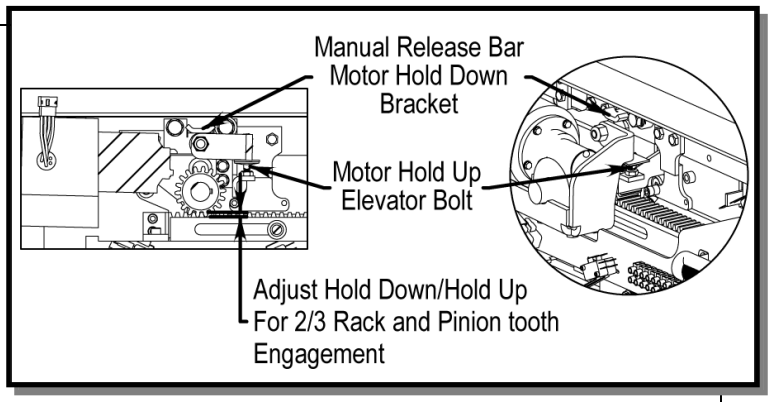






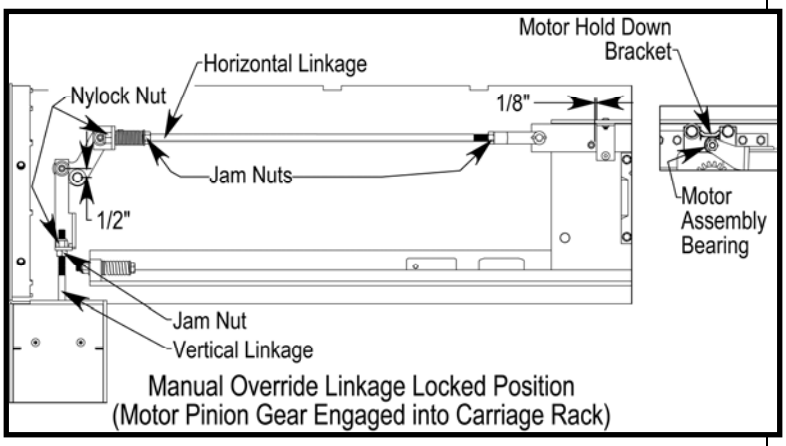
MOTOR GEAR ENGAGEMENT

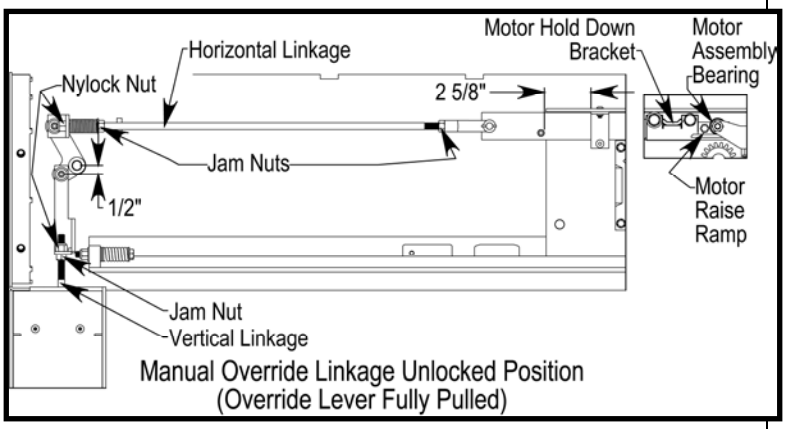
- Adjust Motor Hold Up Elevator Bolt (and jamb nut) and Motor Hold Down Bracket to produce a 2/3 engagement of the motor pinion gear into the carriage rack (about 1/8" engagement)

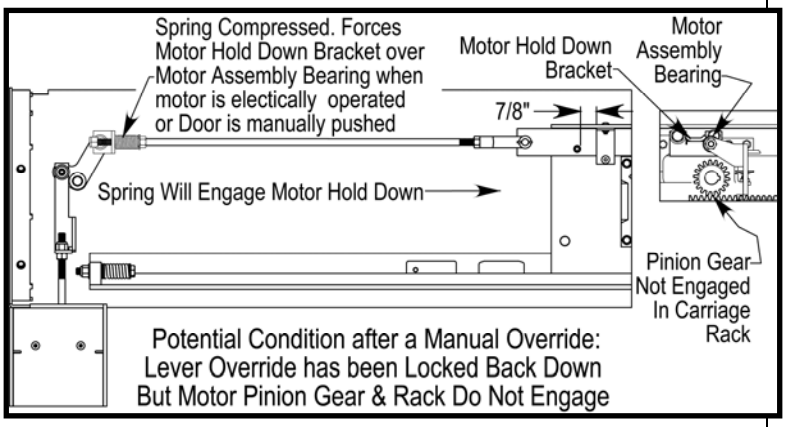


MANUAL OVERRIDE LINKAGE ADJUSTMENTS

- Override Linkages should be adjusted to reflect the conditions shown to the right.
- In the locked position the vertical linkage pivot point should be ½" above the bell crank pivot
- In the full unlocked position (lever override completely pulled) the vertical linkage pivot point should be ½" below the bell crank pivot
- In the locked position the stop bolt head should be a nominal 1/8" from the override mounting bracket as shown.
- When in this position lightly pull the horizontal Linkage in the unlocking direction. The compression spring should reliably push the override bar back to the 1/8" dimension shown.
- In the case of a manual override condition and then relocking the manual override: Due to the coarseness of the rack and pinion gear the pinion gear may not engage the rack when the override is locked back down. In this condition (seen at the right) the horizontal linkage compression spring will compress and when the motor is run or the door is physically moved the spring will force the motor hold down over the motor assembly bearing securing the motor engagement.



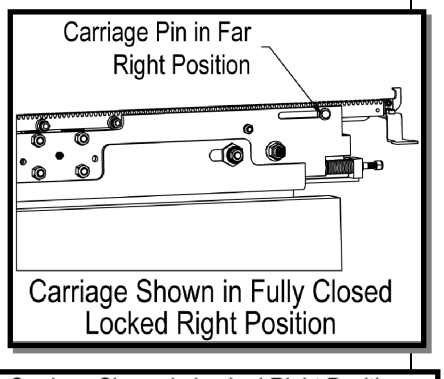




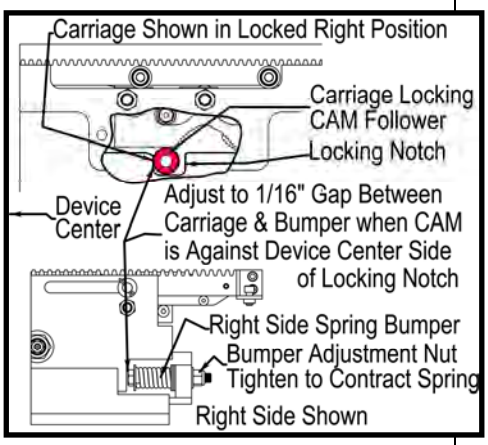
--NOTE: AFTER ANY MECHANICAL ADJUSTMENTS--

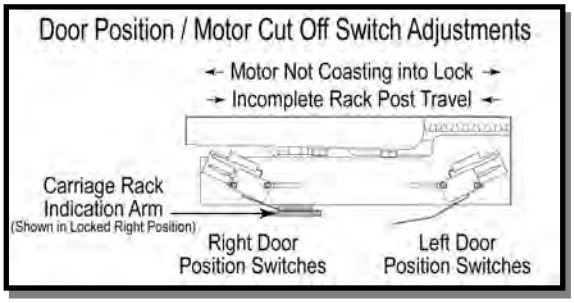
OPERATE DEVICE OPEN & CLOSED & CHECK DEVICE FUNCTION:

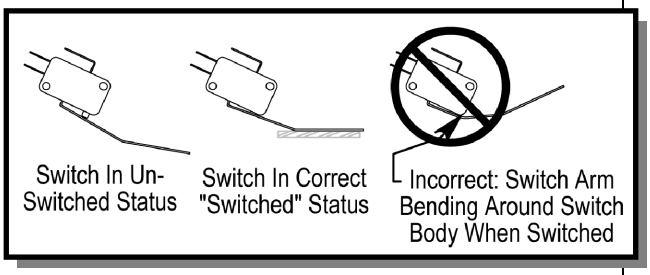
- Door position switches should switch just at or slight after door motion stops <u>but before carriage rack post travel finishes</u>. Motor should "coast" into the full locked position.
- After device finishes full travel/locking the Carriage rack should be in full "post" travel position. Far left (after left door operation) or far right (after right door operation): Right Locked position shown ➔
- The spring bumpers should stop the door/carriage movement allowing the post travel rack movement to lock the carriage into place, but the bumpers should *Not* press the carriage into the device center side of the carriage locking notch.



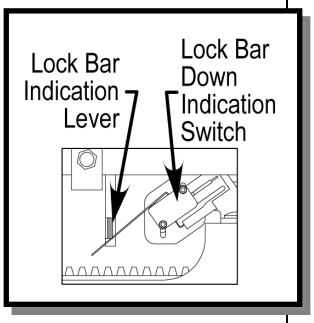
- Adjust the Door Position Switches as needed to reliably allow the rack to completely finish "post" travel locking in both directions <u>*while allowing the motor to coast into the full lock position*</u>
- Carriage Rack Indication Arms may need to be bent down slightly to provide ¼" clearance between the top of the indication levers and the bottom of the wire tray.
- Limit switch arms should be bent so that the switches make as the carriage rack levers slide by but switch arms are not forced to bend around the switch body.





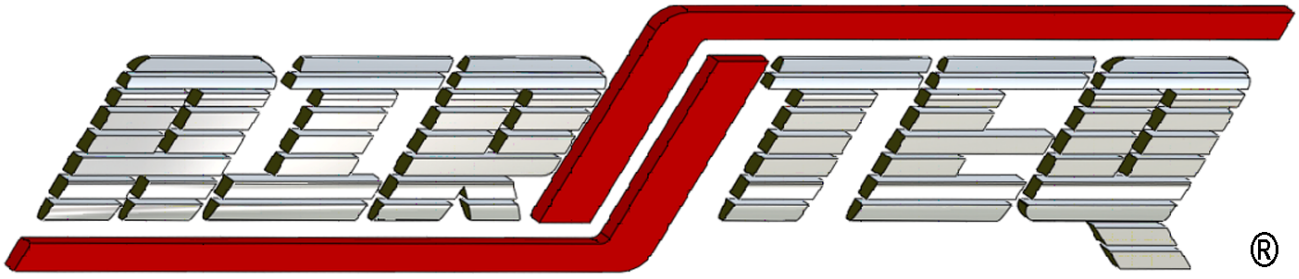


- Adjust the lock bar down indication switch - if needed - to reliably indicate lock bar down position: see 'Electrical Adjustments' section '<u>Lock Bar Down Position Switch Adjustment Procedure</u>.'



ELECTRICAL ADJUSTMENT INSTRUCTIONS

MODEL 7300 SLIDING DOOR OPERATOR



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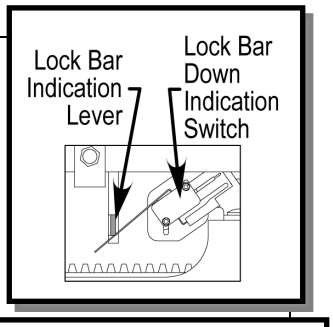
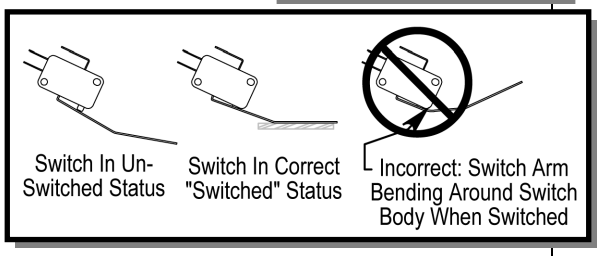
ELECTRICAL ADJUSTMENTS

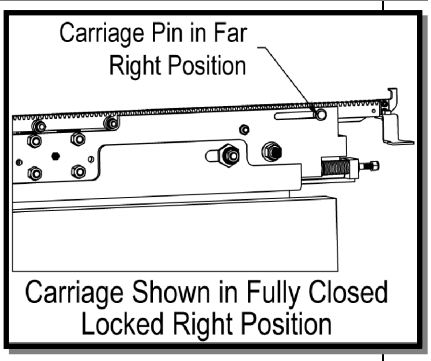


Switch Adjustment Check

- Lock Bar Down Indication Switch should trip only when lock bar is fully down
- Door Position Switches should switch just at or slight after door motion stops but before carriage rack post travel finishes. Allowing the device motor to "coast" into the full locked position.
  - Door Position Switches should allow carriage switch arm to slide by, remaining switched but not bending the switch arm around the switch body ➔

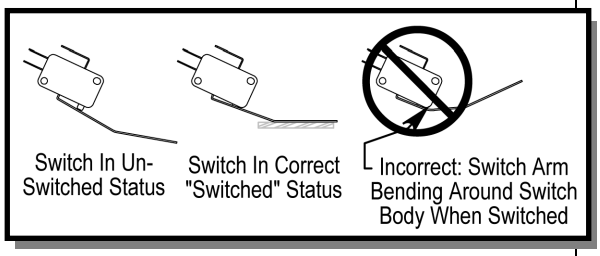


- After device finishes full travel/locking the Carriage rack should be in full "post" travel position. Far left (after left door operation) or far right (after right door operation): Right Locked position shown ➔
- Device should provide secure indication when door is closed and lock bar is completely down *only*
  - If control panel does not show proper secure indication:
    - Operate device with hand held tester & check tester indication lights
    - If tester lights show proper indication, check control panel wiring into the device and / or check control panel programming
    - If tester does not show proper indication check switch adjustments, device wiring & switch integrity (i.e. is there a bad switch)

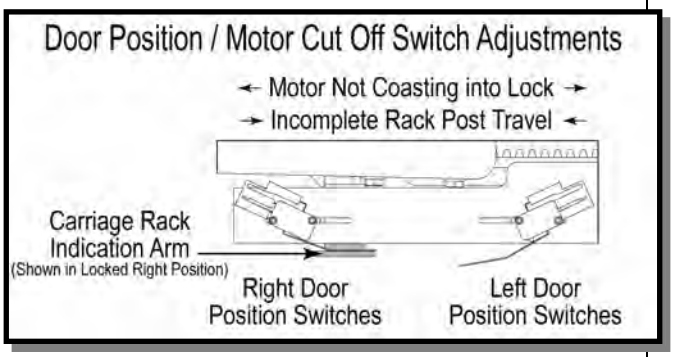


Door Position Switch Adjustment Procedure

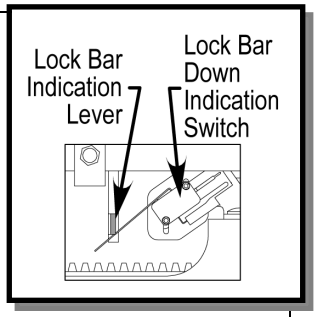
- Operate Device into and out of the full left locked position while observing when/how Left Door Position Switch 'switching' occurs
- Adjust the Left Door Position Switches to switch when the door stops moving but before carriage rack post travel is complete. Switch Arms should be bent such that the switch arms are securely switched as the Carriage Rack Switch Indication Arm slides under Switch Arm during post travel ** switch arms should not bend around the switch body when switched. **



- If Position switches do not allow complete rack post travel: Move switch position toward device lock bar
- If Motor is over driving carriage rack: Move switch position away from device lock bar (Motor is to coast into full lock)
- REPEAT Procedure with the door in the full right locked position, adjusting the Right Door Position Switches



Lock Bar Down Position Switch Adjustment Procedure

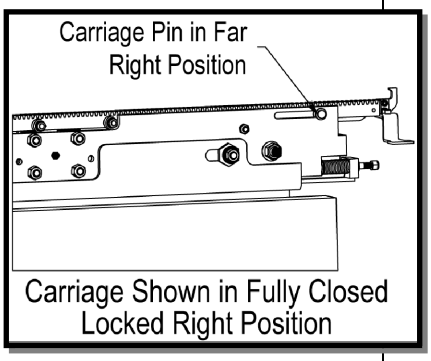


- Loosen Lock Bar Down Indication Switch.
- Move Switch to lowest position.
- With Lock Bar Indication Arm in the full down position, raise the Lock Bar Down Indication Switch until the switch is fully depress (But not bending the switch on the switch body).
- Secure Lock Bar Down Indication Switch.
- NOTE: The Lock Bar Down Indication Switch is to trip ***only*** when the Lock Bar is fully down. If the Lock Bar Down Indication Switch trips before the LOCKBAR is completely down then the device could register "secure" when the device is not locked: This is an unsafe/unacceptable condition.

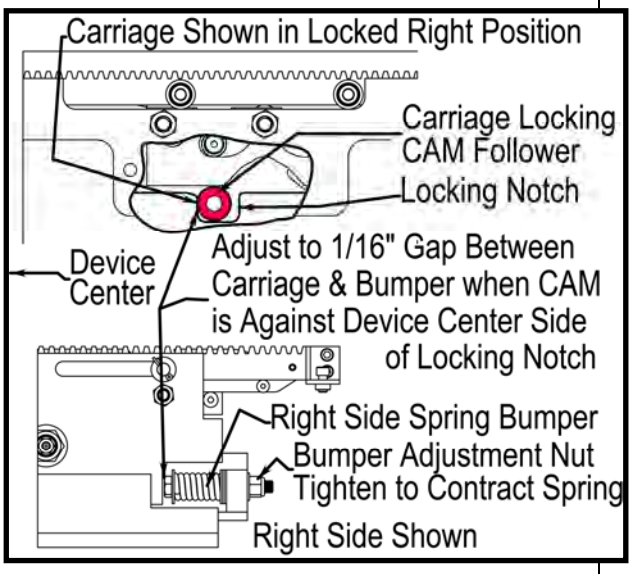
--AFTER ANY ELECTICAL ADJUSTMENTS--

OPERATE DEVICE OPEN AND CLOSED & OBSERVE DEVICE FUNCTION:

- Electrically operate the slider fully open & closed several times to verify correct electric operation and specifically that Secure Indication is given when door is closed and the lock bar is completely down ***only***.
- Carriage should complete post travel when device completes operation ➔ in both locked left and locked right position (Locked Right Shown)

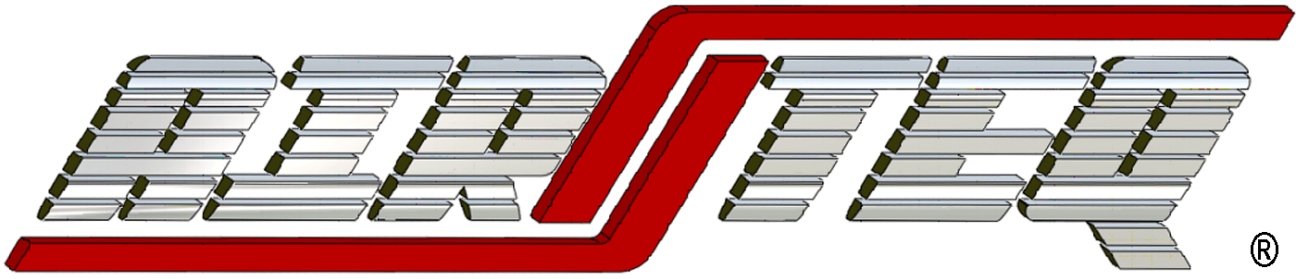


- The spring bumpers should stop the door/carriage movement allowing the post travel rack movement to lock the carriage into place, but the bumpers should *Not* press the carriage into the device center side of the carriage locking notch.



DOOR RE-INSTALLATION INSTRUCTIONS

MODEL 7300 SLIDING DOOR OPERATOR



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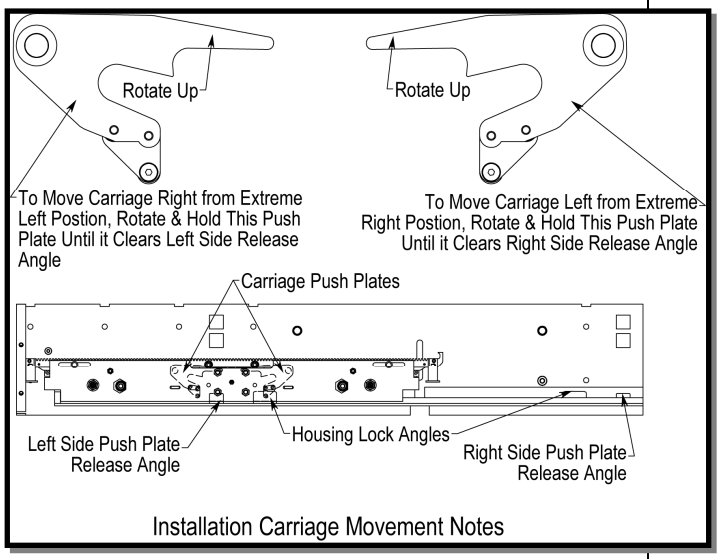
Re-Installing a Door (Door Hanging Procedure)

1) CARRIAGE RE-INSTALLATION

- Hold carriage push plates up and Verify free Carriage Rack movement (Rack moves easily to full left and full right)
- Remove Wire Tray from device header (Two Bolts, Unplug Wire Harness from motor & Building)
- Remove Right Side Spring Bumper from the device header
- Raise and Secure Lock Bar Position Arm in the Full Up Position
- Move the Manual Motor Release Bar into the full motor release position.
- Place Carriage on Roller Bar in Far Right Position – Hold in place

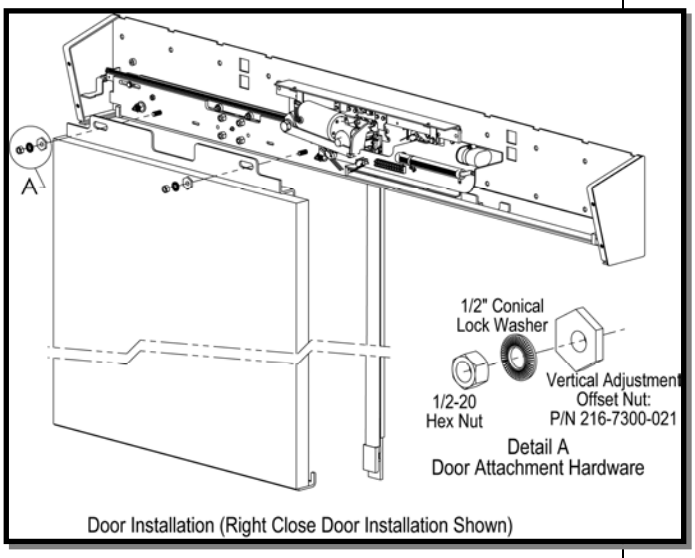


Installation Carriage Movement Notes

- NOTE: With Door Bumper spring(s) removed the Carriage can get "locked" into the extreme left or right position. The Illustration shown above details how to release such a "locked" carriage.

2) HANG DOOR

- Move Carriage to door Full Open position
  - If Right Close Remove Left Side Spring Bumper
- Raise door & fit carriage studs into door hanger slots
- Install Vertical Adjustment Nut onto stud. Fit round portion of offset nut into carriage slot.
- Install Conical lock washer and hex nut.
- Tighten only enough to flush hanger and carriage front plate together.
- Fit Bottom door guide into lock column foot & Move Door to Middle Position.
- Reattach device header Door Bumper Springs



Door Installation (Right Close Door Installation Shown)

- Re-install Wire Tray onto device header (Two Bolts, plug Wire Harness into motor & control pigtail)
- Release Lock Bar Position Arm & check that it can be easily raised and drops freely

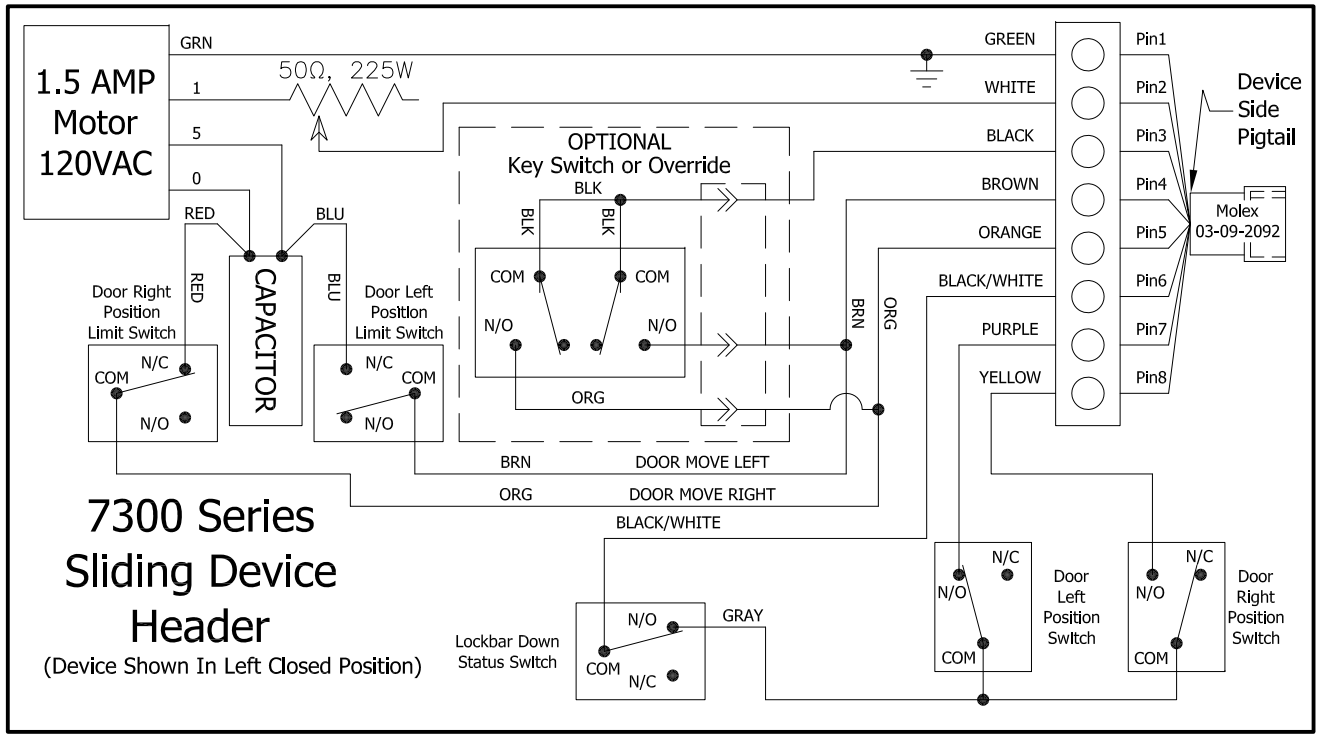
3) Follow 'Mechanical Adjustments' section 'Door Positioning Procedure'

DETAIL DRAWINGS
EXPLODED VIEWS
PARTS LISTS
WIRING DIAGRAMS

MODEL
7300
SLIDING DOOR
OPERATOR

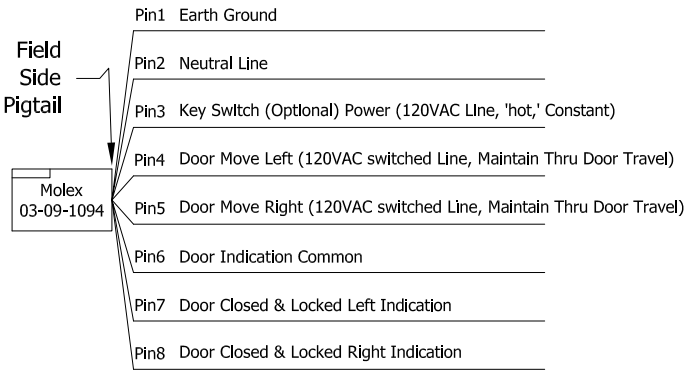
3224 Mobile Highway ● Montgomery, Alabama 36108
(334)281-8440 ● FAX (334)286-6421

REVISIONS				
REV	ECN	DESCRIPTION	DRAWN	CHK



7300 Series Sliding Device Header

(Device Shown In Left Closed Position)



Airteq Provides a 6ft Field Side Pigtail to Provide Connection to Control Wiring

All Control Wiring/Power/Signals To Be Provided By Others

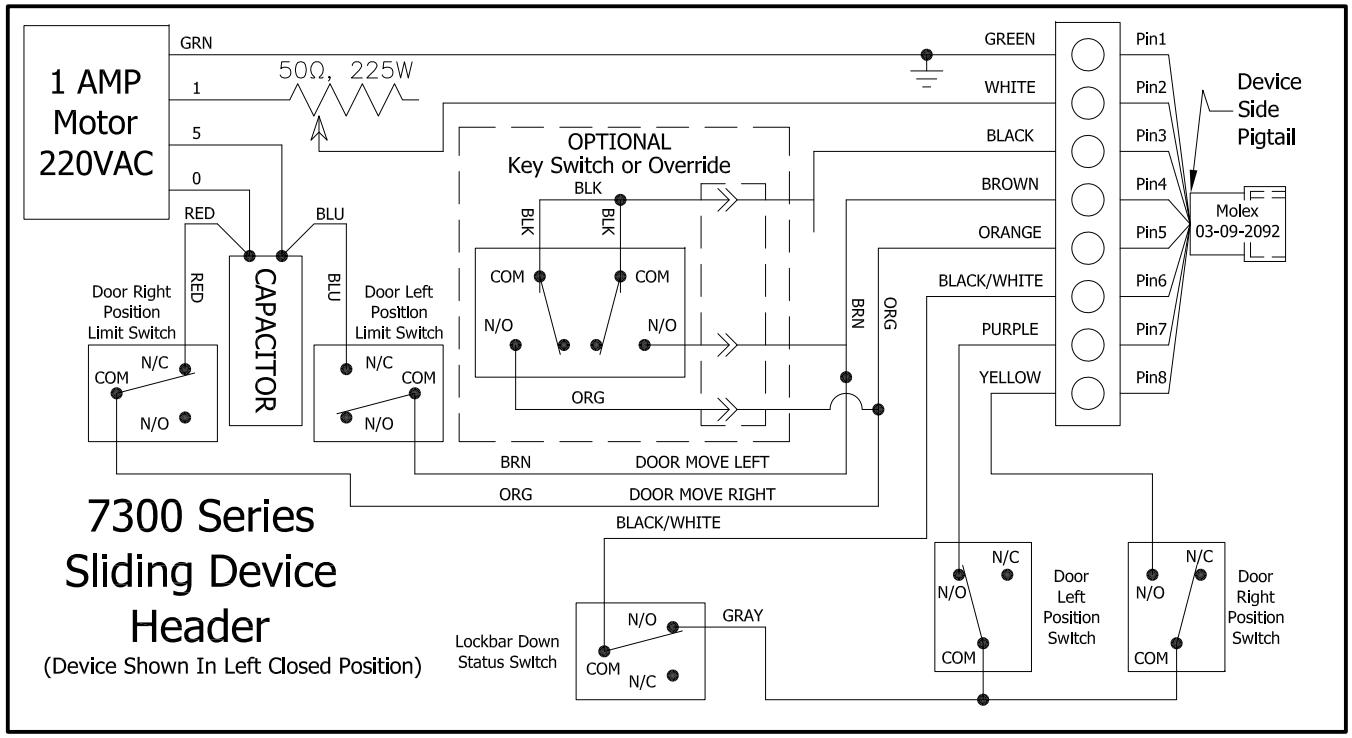
NOTES:

1. DOOR SHOWN IN CLOSED LEFT/LOCKED CONDITION.
2. VOLTAGE MUST BE MAINTAINED FOR COMPLETE CYCLE.
3. LEFT CLOSE DEVICES MOVE LEFT TO CLOSE. RIGHT CLOSE DEVICES MOVE RIGHT TO CLOSE.
4. CLOSED/LOCKED INDICATION LAMPS TO BE GREEN. OPEN/LOCKED INDICATION LAMPS TO BE RED.
5. ALWAYS INSTALL IN ACCORDANCE WITH LOCAL REGULATIONS AND THE NATIONAL ELECTRIC CODE (NEC).

AIRTEQ™

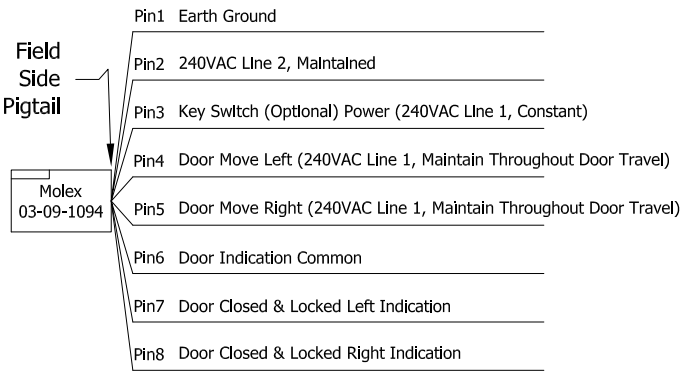
TITLE: 120 VAC 7300 SERIES SLIDER WIRING DIAGRAM	DRAWN BY RLP	
	APPROVED	
	DATE 9-29-2010	
	SCALE NONE	
	SIZE B	DWG. NO. EL-7300-120 REV 00

REVISIONS				
REV	ECN	DESCRIPTION	DRAWN	CHK



7300 Series Sliding Device Header

(Device Shown In Left Closed Position)



Airteq Provides a 6ft Field Side Pigtail to Provide Connection to Control Wiring

All Control Wiring/Power/Signals To Be Provided By Others

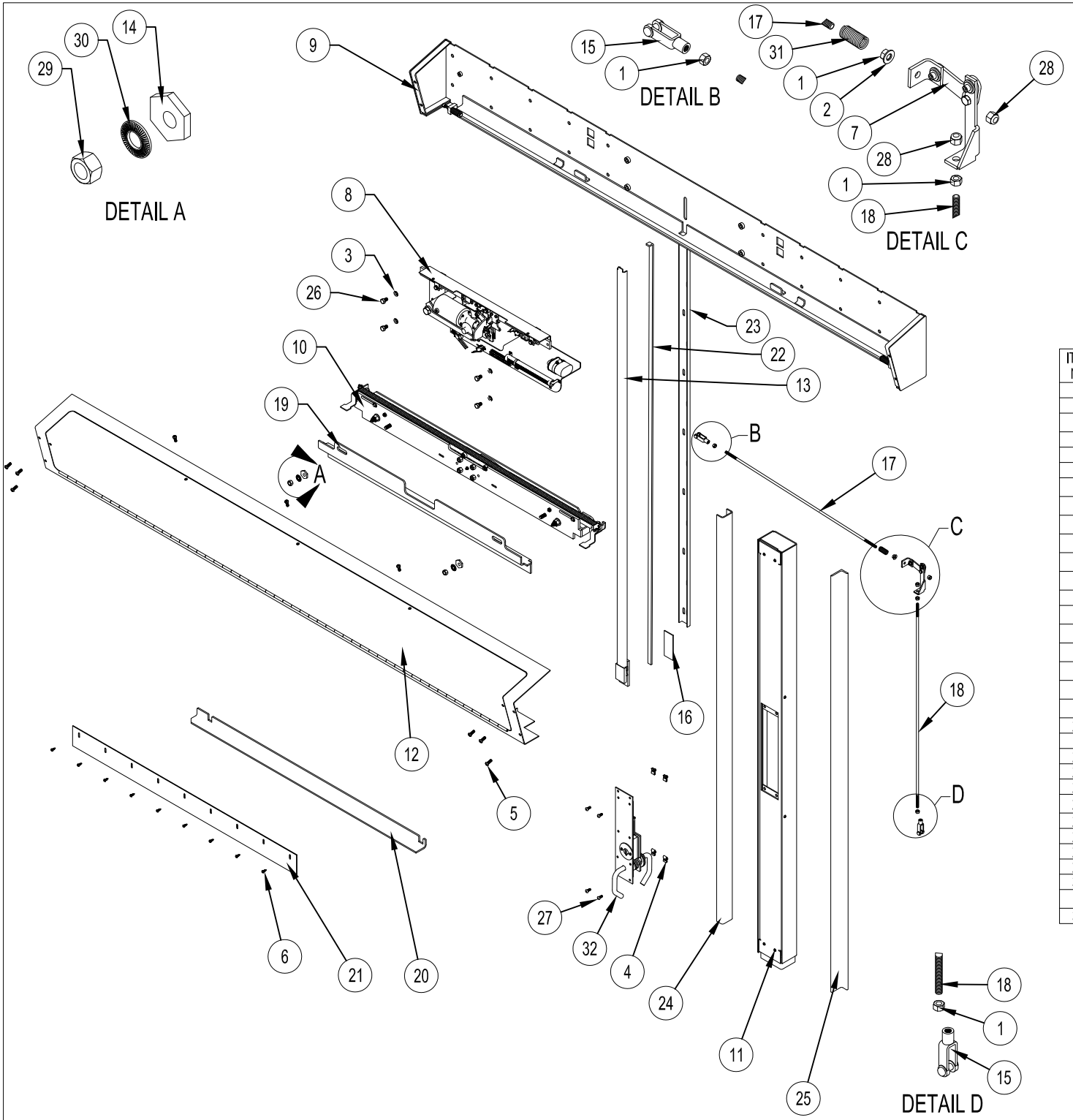
NOTES:

1. DOOR SHOWN IN CLOSED LEFT/LOCKED CONDITION.
2. VOLTAGE MUST BE MAINTAINED FOR COMPLETE CYCLE.
3. LEFT CLOSE DEVICES MOVE LEFT TO CLOSE. RIGHT CLOSE DEVICES MOVE RIGHT TO CLOSE.
4. CLOSED/LOCKED INDICATION LAMPS TO BE GREEN. OPEN/LOCKED INDICATION LAMPS TO BE RED.
5. ALWAYS INSTALL IN ACCORDANCE WITH LOCAL REGULATIONS AND THE NATIONAL ELECTRIC CODE (NEC).

AIRTEQ™

TITLE		
220/240 VAC 7300 SERIES SLIDER WIRING DIAGRAM	DRAWN BY RLP	
	APPROVED	
	DATE 9-29-2010	
	SCALE NONE	

SIZE	DWG. NO.	REV
B	EL-7300-240	00



ITEM No.	QTY	PART NUMBER	DESCRIPTION
1	4	10000208	HEX NUT, 3/8-16
2	1	10000708	WASHER, FLAT, 3/8
3	4	10001410	1/2" Lock Washer
4	4	10002406	J NUT, 5/16-18
5	9	10003401	SCREW BHMS 3/8-16x1" T45 TORX-SEC
6	9	10009601	SCREW BHMS 1/4-28x3/4" Pin Torx
7	1	146-7300-046(R/L)	Right Pull Override CAM Assembly
8	1	146-7300-060(R/L)	7300 Sub Plate Assy, (Right or Left) Pull
9	1	146-73xx-000	7300 Backplate Assembly XXin CO
10	1	146-73xx-020	7300 Series, Carriage Assembly, XX" CO
11	1	146-73xx(R/L)-200	7300 Receiver, XX"COH, (Right or Left) Close
12	1	150-73xx-007(R/L)	XX" CO, (Right or Left) Close, Hinged Cover
13	1	150-73xx-100	7300 Lock Column Front-Door Guide, XX"COH
14	2	216-7300-021	Vertical Adjustment Offset Nut
15	2	216-7300-048	3/18-16 Thread Yoke Clevis
16	1	216-7300-153DG	Standard Door Guide Shim (11ga)
17	1	216-73xx-210	3/8 Rod x XX" Len, 3/8-16, both ends
18	1	216-73xx-210	3/8 Rod x XX" Len, 3/8-16, both ends
19	1	216-73xx-001	7300 Series Door Hanger XX" CO
20	1	216-73xx-009(R/L)	7300 (R or L) Close Bot. Door Guide XX" COW
21	1	216-73xx-010	XX" COW, Door Skirt
22	1	216-73xx-100	7300 Series Lockbar, XX" COH
23	1	216-73xx-106	7300 Series Lock Column Back XX" COH
24	1	216-73xx-202	7300 Series Rec Channel for XX" COH
25	1	216-73xx-205	XX" COH, Receiver Mounting Angle
26	4	310-0000-020	SCREW, HHCS, 1/2-13x3/4
27	4	311-3118-013	SCREW Pin TORX 5/16-18x3/4
28	2	312-3816-006	NUT, HEX, 3/8-16 NYLOCK
29	2	312-5020-000	HEX NUT, 1/2-20
30	2	313-0000-015	WASHER, CONICAL SERRATED, 1/2in
31	1	315-7300-002	Override Spring
32	1	lever o-r,	

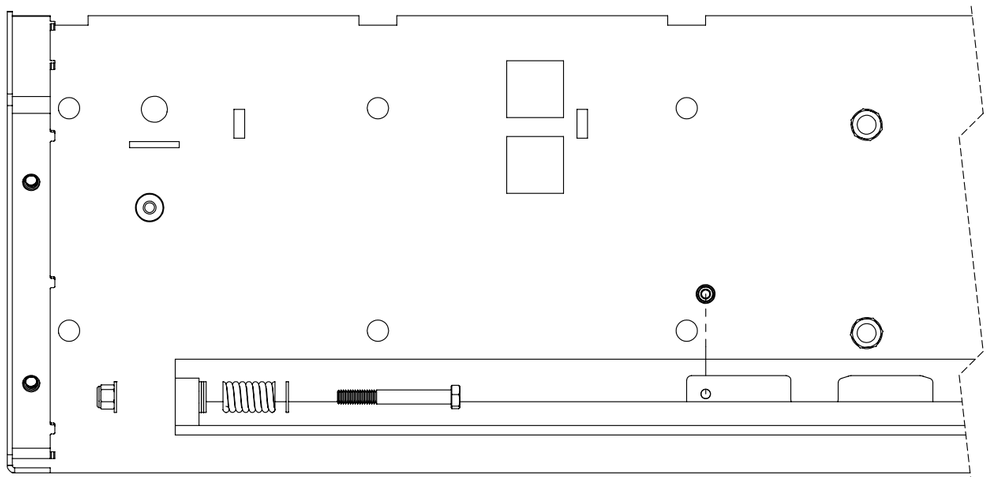
	DATE	NAME
DRAWN	10/20/11	RLP
CHECKED		

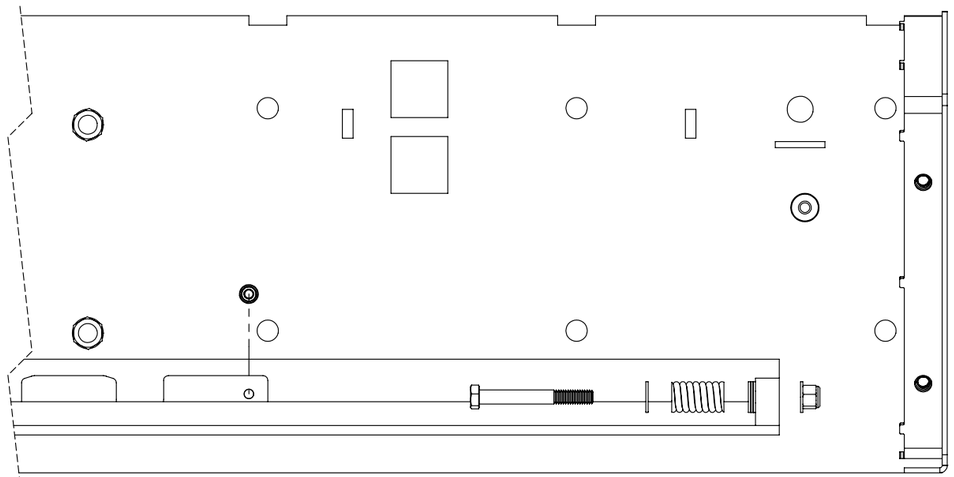
TITLE:

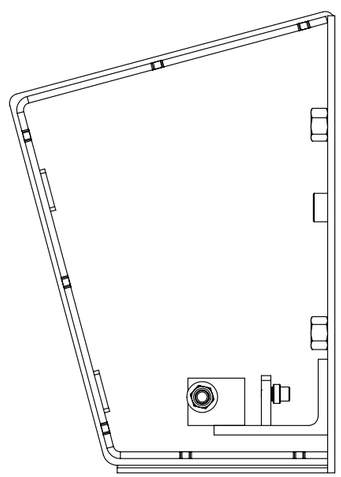
7350 Series, Slider Assembly

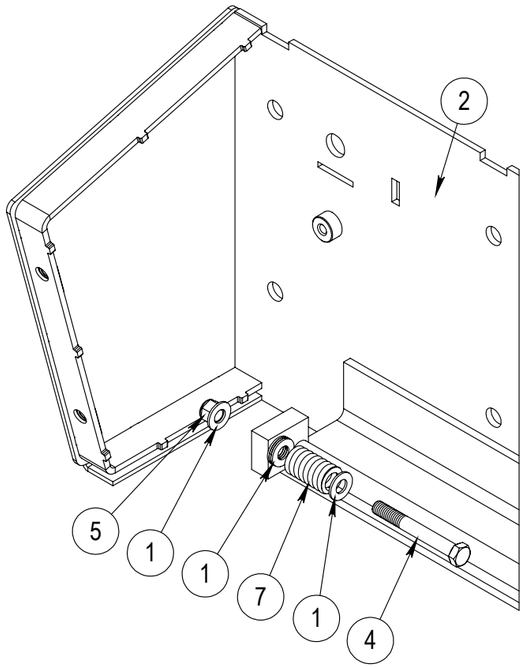
FINISH:	SIZE	DWG. NO.	REV
	A	146-7350-XXxXX(R/L)	
	SCALE: 1:24		SHEET 1 OF 1

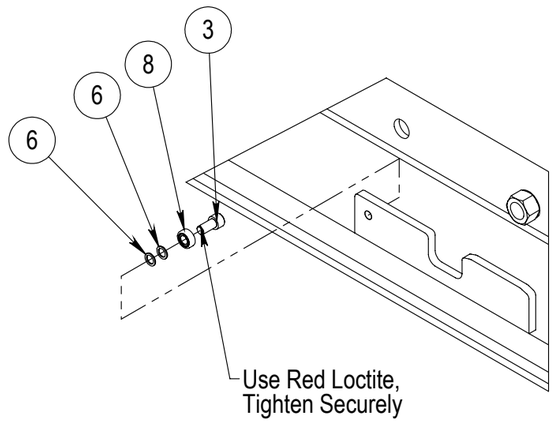
REVISIONS					
ECN #	ZONE	REV.	DESCRIPTION	DATE	APPROVED











ITEM NO.	QTY	PART NUMBER	DESCRIPTION
1	10	10000708	WASHER, FLAT, 3/8 SAE, ZP
2	1	150-73xx-000	Backplate Weldment, 28 COW
3	2	310-2520-035	SCREW, SHCS 1/4-20 X .500, BLACK
4	2	310-3816-011	SCREW HHCS 3/8-16X3 GR.5 PLT
5	2	312-3816-006	NUT, HEX, 3/8-16 NYLOCK
6	4	313-7300-001	Steel Washer .25x.37x.031 Thick, McMaster 3088A429 or Eq.
7	2	315-7300-001	Compr. Spring, St Znc-Pl, 1.375"x.812" OD,.162" Wire, 901.3 lbs./inch,McMaster 9657K23 or Eq.
8	2	317-7300-021	ABEC 5, Double Sealed Steel Ball Bearing for 1/4" Shaft Dia, 1/2" ODx.1875"Thick: McMaster 57155K376 or eq.

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:
ANGULAR: ±1
TWO PLACE DECIMAL ±.015
THREE PLACE DECIMAL ±.010

INTERPRET GEOMETRIC TOLERANCING PER:

	DATE	NAME
DRAWN	1/3/11	RLP
CHECKED		

MATERIAL:

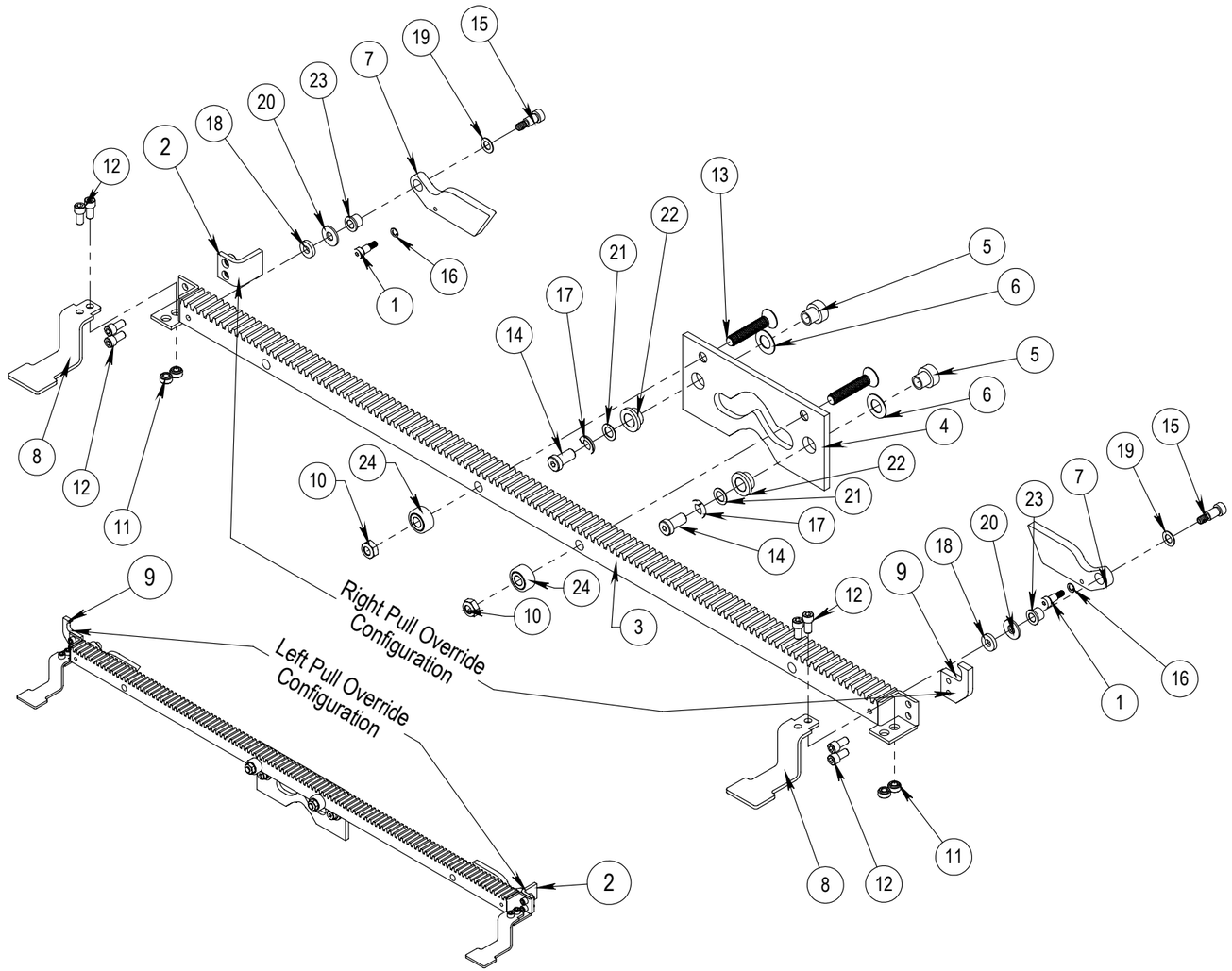
FINISH:

TITLE: 7300 Backplate Assembly, XX" Clear Opening Width

SIZE	DWG. NO.	REV
B	146-73xx-000	

SCALE: 1:4 | WEIGHT: | SHEET 1 OF 1

REVISIONS					
ECN #	ZONE	REV.	DESCRIPTION	DATE	APPROVED
		A	Removed 317-7300-022 (2X) Roller Bearings from Assembly	10/16/12	



ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	2	10002501	SCREW, SH.SOC., .25D X .38L X 10-24
2	1	146-7300-085	Pivot Pull Override Tab PEM Assembly
3	1	150-73xx-008	7300 Series Rack Weldment, 28" CO
4	1	216-7300-029	Drive Plate
5	2	216-7300-038	Door Drive Boss
6	2	216-7300-039	Thrust Washer .505"IDx .918"ODx.032"thick McMaster 5909K44 or equiv
7	2	216-7300-061	Lock Lever Arm
8	2	216-7300-081	Door Travel Limit Switch Tab
9	1	216-7300-082	Straight Pull Override Tab
10	2	216-7300-106	Nylon-Insert Thin Hex Locknut Zinc-Plated, 3/8"-16, 9-16" W, 17/64" H McMaster 90566A031 or Eq.
11	4	310-0330-007	1/4-20, SELF CLINCHING NUT, ZP, PEM s-0420-1 or eq.
12	8	310-2520-035	SCREW, SHCS 1/4-20 X .500, BLACK
13	2	310-3816-003	SCREW, FH SOC., 3/8-16 X 2 Black Oxide
14	2	310-3816-024	
15	2	310-7300-000	SCREW, SH.SOC., .312DX.5LX1/4-20 with Nylon Pellet McMaster 91264A537 or Eq
16	2	313-0000-010	WASHER LOCK SPLIT #10 PLT
17	2	313-0000-115	Washer Lock split spring 3/8 Zinc Plated
18	2	313-7300-000	.625ODx.281IDx.125thick Washer, McMaster#91201A029 or eq.
19	2	313-7300-002	Steel WASHER .32IDx.57ODx.03 McMaster Number 98017A689 or eq.
20	2	313-7300-003	WASHER .32x.75x.05to.08 McMaster 98026A029 or Eq.
21	2	313-7300-004	WASHER, .39IDx.63ODx.030 Steel, McM #98017A199
22	2	317-7300-011	SAE 863 Flanged-Sleeve Bearing for 1/2" Shaft Dia, 5/8" OD X 3/8" L X 7/8" Flange OD, McM 2938T11 or Eq.
23	2	317-7300-012	SAE 863 Flanged-Sleeve Bearing for 5/16" Shaft Dia, 7/16" OD X 3/8" L X 9/16" Flange OD, McM 2938T5 or Eq.
24	2	317-7300-022	Double Row, Unground Steel Ball Bearing for 3/8" Shaft Dia, 7/8" ODx 7/16"Thick, Kilian D-2269 or eq.

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:
ANGULAR: ±1
TWO PLACE DECIMAL ±.015
THREE PLACE DECIMAL ±.010

INTERPRET GEOMETRIC TOLERANCING PER:

	DATE	NAME
DRAWN	12/1/12	RLP
CHECKED		

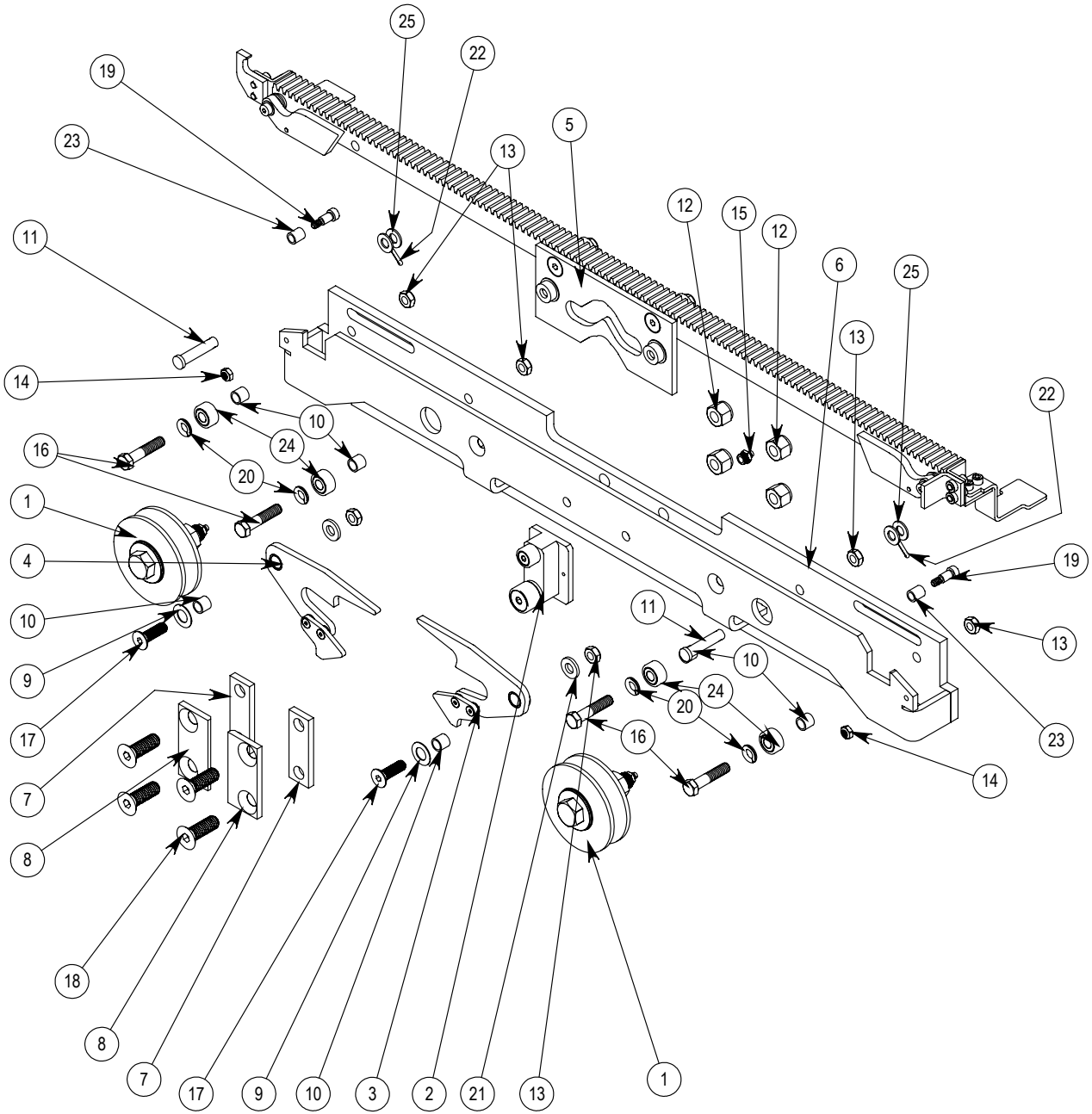
MATERIAL:

FINISH:

TITLE: 7300 Series Rack Assembly for XX" Clear Opening

SIZE	DWG. NO.	REV
B	146-73xx-008	A

SCALE: 1:5 | WEIGHT: | SHEET 1 OF 1



REVISIONS				
ECN #	REV.	DESCRIPTION	DATE	APPROV.

ITEM NO.	QTY	PART NUMBER	DESCRIPTION
1	2	146-7300-010	7300 Wheel Assembly
2	1	146-7300-021	Door Travel Lock Assembly
3	1	146-7300-025L	Carriage Push Plate Left Assembly
4	1	146-7300-025R	Carriage Push Plate Right Assembly
5	1	146-73xx-008	7300 Series Rack Assembly for 28"CO
6	1	150-73xx-020	Main Carriage Weldment for 28" CO
7	2	216-7300-033	Door Stop Slide Guide Base
8	2	216-7300-034	Door Stop Slide Guide Lip
9	2	216-7300-039	Thrust Washer .505"IDx .918"ODx.032"thick McMaster 5909K44 or equiv
10	6	216-7300-041	Drive Pivot Spacer
11	2	216-7300-104	3/8"dia clevis pin McMaster 98306A275 or eq.
12	4	216-7300-105	Nylon-Insert Hex Locknut Zinc-Plated, 1/2"-13, 3-4" W, 19/32" H McMaster NUT, HEX, 1/2-13 NYLOCK McMaster 95615A210 or Eq.
13	6	216-7300-106	Nylon-Insert Thin Hex Locknut Zinc-Plated, 3/8"-16, 9-16" W, 17/64" H McMaster 90566A031 or Eq.
14	2	216-7300-107	1/4"-20,Thin Hex, NyLock nut, Gr 6, Steel, Zinc Plated (McMaster 94945A205 or equiv.)
15	1	216-7300-120	Straight Grease Fitting, 1/8" PTF Male, 9/16" Height, Zinc Plt. Steel, McMaster 1095K65 or eq.
16	4	310-3816-017	SCREW, HEX HD CAP, 3/8-16 X 1.75, Zinc Plated, GRD 5
17	2	310-3816-023	SCREW, FH SOC., 3/8-16 X 1.25, GRD 5, Zinc Plated
18	4	310-5013-004	1.5" Length, 1/2-13 FH Cap Screw
19	2	310-7300-000	SCREW, SH.SOC., .312DX.5LX1/4-20 with Nylon Pellet McMaster 91264A537 or Eq
20	4	313-0000-115	Washer Lock split spring 3/8 Zinc Plated
21	2	313-3800-007	WASHER, FLAT, .406 ID X .813 OD x .11 THICK, PLATED
22	2	316-0000-089	COTTER PIN 1/8" X 3/4
23	2	317-7300-018	BEARING BRONZE .3125 SHAFT 7/16OD, .5 LG McMaster 6391K163 or Eq
24	4	317-7300-022	Double Row, Unground Steel Ball Bearing for 3/8" Shaft Dia, 7/8" ODx 7/16"Thick, Kilian D-2269 or eq.
25	4	317-7300-030	SAE 863 Bronze Thrust Bearing for 3/8" Shaft Dia, 3/4" OD X 1/16" Thick, McMaster 2879T2 or equiv

	DATE	NAME
DRAWN	10/27/2009	RLP
CHECKED		

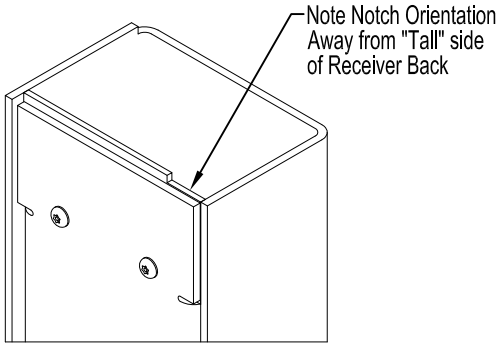
AERATED™

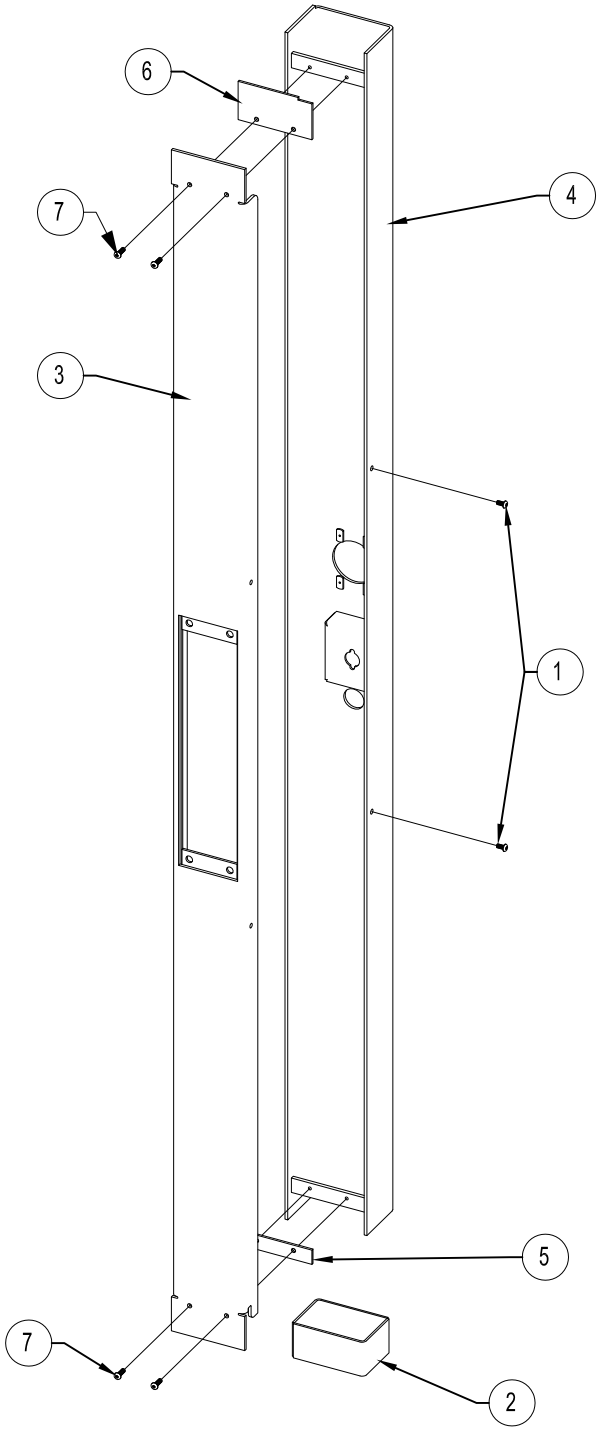
TITLE:

7300 Carriage Assembly for xx" Clear Opening

FINISH:	SIZE	DWG. NO.	REV
	A	146-73xx-020	
	SCALE: 1:6		SHEET 1 OF 1

REVISIONS				
ECN #	REV.	DESCRIPTION	DATE	APPROV.





ITEM No.	QTY	PART NUMBER	DESCRIPTION
1	2	10003404	1/4-20x1/2 BHMS Pin TORX
2	1	150-7300-152	7300 Series Jamb Sleeve Weldment
3	1	150-73xx-201	7300 Receiver Front 84" COH
4	1	150-73xx(R/L)-200(options)	7300 Receiver Back xx" COH
5	1	216-7300-151B	Receiver Bottom Spacer
6	1	216-7300-151T	Receiver Top Spacer
7	4	311-2520-002	SCREW BH Pin TORX 1/4-20x3/4

	DATE	NAME
DRAWN	2/9/11	RLP
CHECKED		

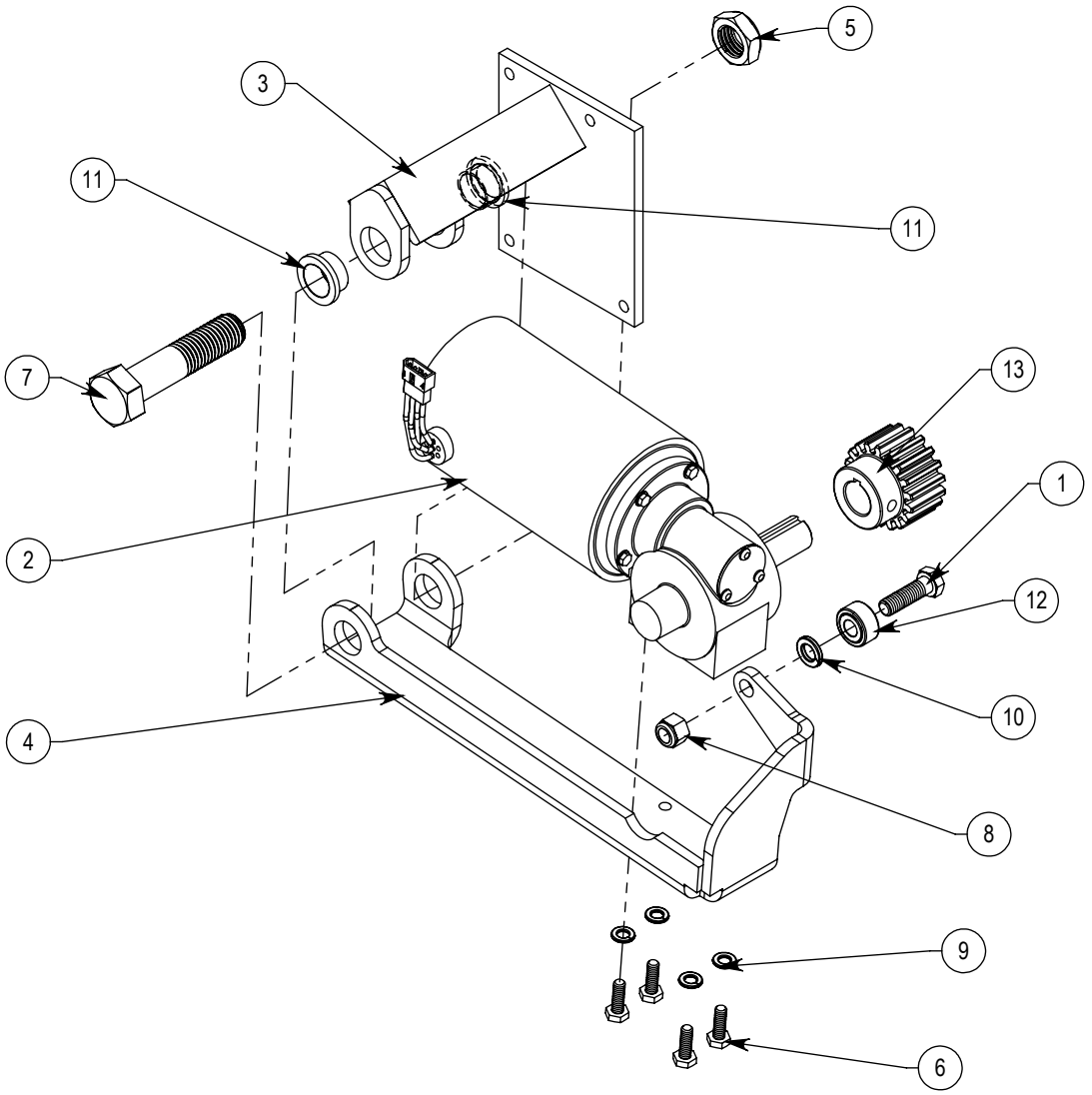
TITLE:

7300 Receiver, xx"COH, (R/L) Close Keyed (1/2) Sides, Para or Mog. OR, (Key Sw.)

FINISH:	SIZE	DWG. NO.	REV
	A	146-73xx(R/L)-200K(options)	
	SCALE: 1:12		SHEET 1 OF 1

7300 Series Receiver, xxCOH, Right Close Shown, Keyed 2 Sides Shown, Para OR Mogul Override, Key Switch Option Shown

REVISIONS				
ECN #	REV.	DESCRIPTION	DATE	APPROV.



ITEM NO.	QTY	PART NUMBER	DESCRIPTION
1	1	10001002	SCREW, HEX GR#8 3/8-16 X 1-1/4, ZP
2	1	146-7300-001	7300 Motor, Baldor 24E578W111G1, with Airteq connector
3	1	150-7300-002	Motor Pivot Base Weldment
4	1	150-7300-003	Motor Mount Plate One Piece
5	1	216-7300-109	3/4"-10,Thin Hex, NyLock nut, Gr 5, Steel, Zinc Plated (McMaster 91342A230 or equiv.)
6	4	310-2520-006	SCR, CAP, HEX, 1/4-20 X 3/4, STL, PLTD
7	1	310-7510-001	3/4-10 Hex Head Bolt x 3 1/4in Length, Grade 5
8	1	312-3816-006	NUT, HEX, 3/8-16 NYLOCK
9	4	313-0000-003	WSHR, LOCK, SPLIT, 1/4, STL, PLTD
10	1	313-0000-115	Washer Lock split spring 3/8 Zinc Plated
11	2	317-7300-013	SAE 863 Flanged-Sleeve Bearing for 3/4" Shaft Dia, 7/8" OD X 1/2" L X 1 1/8" Flange OD, McM 2938T53 or Eq.
12	1	317-7300-022	Double Row, Unground Steel Ball Bearing for 3/8" Shaft Dia, 7/8" ODx 7/16"Thick, Kilian D-2269 or eq.
13	1	317-7300-040	7300 Drive Gear: Boston NF18B-3/4 or Eq.

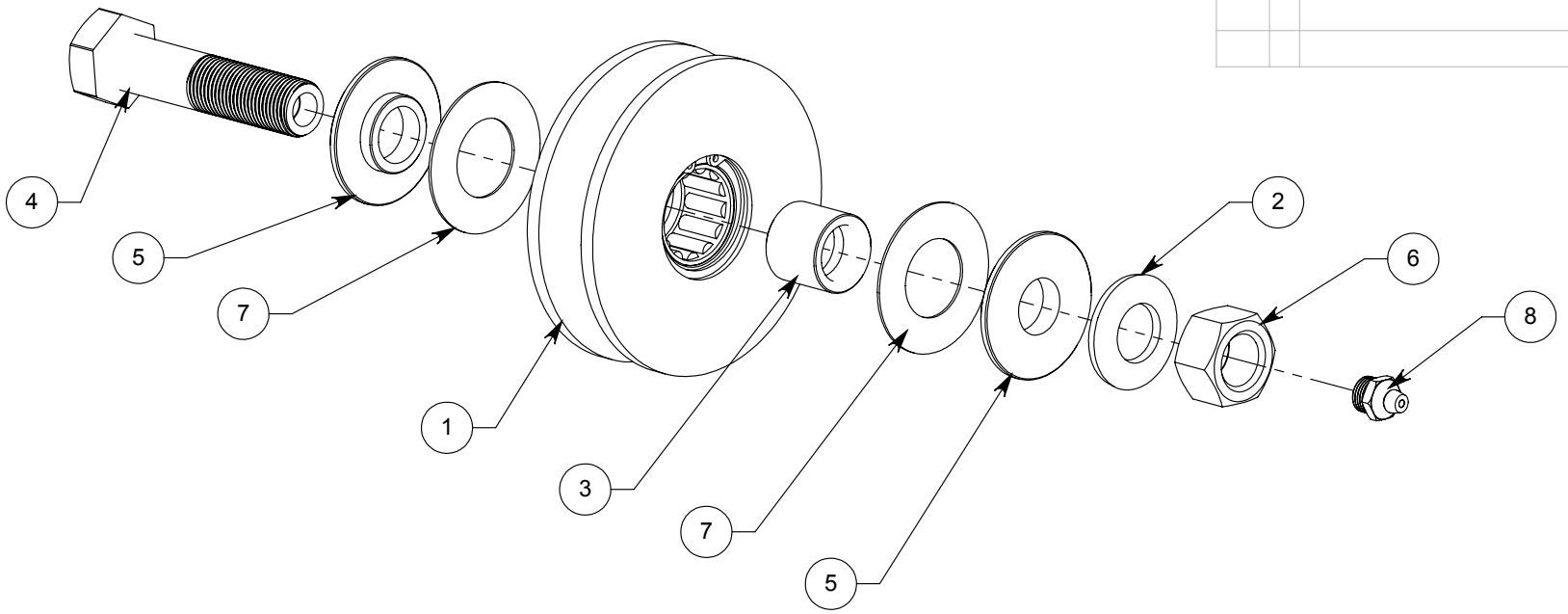
	DATE	NAME
DRAWN	3/9/10	RLP
CHECKED		

TITLE:

Motor Pivot Assembly

FINISH:	SIZE	DWG. NO.	REV
	A	146-7300-002	
	SCALE: 1:4		SHEET 1 OF 1

REVISIONS				
ECN #	REV.	DESCRIPTION	DATE	APPROV.



ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	146-7300-011	7300 Series Roller & Bearing Assembly
2	1	10002803	WASHER, CONICAL SERRATED, 5/8 ZP
3	1	216-7300-013	Bearing Inner Ring, MI-10-N, 5/8"IDx7/8"ODx.760" Wide
4	1	216-7300-015	Grade 5, 5/8"-18 x2 3/4" with grease port
5	2	216-7300-016	Roller Cap
6	1	216-7300-017	NUT, HEX, 5/8-18, STL. ZP
7	2	216-7300-018	Thrust Washer .875"IDx1 11/16"ODx.032" thick McMaster 5909K48 or equiv
8	1	216-7300-120	Straight Grease Fitting, 1/8" PTF Male, 9/16" Height, Zinc Plt. Steel, McMaster 1095K65 or eq.

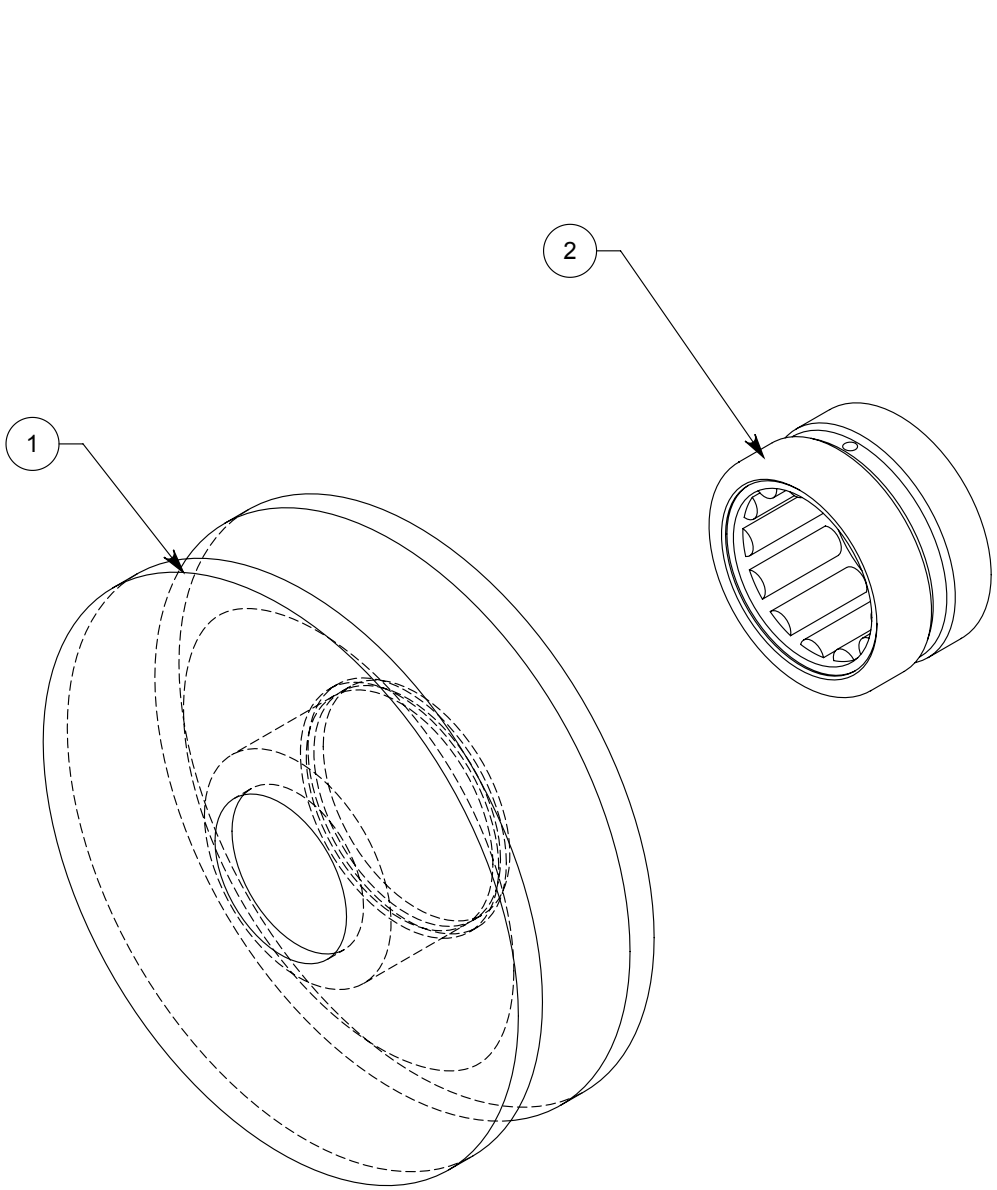
	DATE	NAME
DRAWN	10/23/09	RLP
CHECKED		

TITLE:

7300 Wheel Assembly

FINISH:	SIZE	DWG. NO.	REV
	A	146-7300-010	
	SCALE: 1:2		SHEET 1 OF 1

REVISIONS				
ECN #	REV.	DESCRIPTION	DATE	APPROV.
	A			



ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	216-7300-010	7300 Series Roller
2	1	216-7300-012	Needle Bearing, MR-14-N, 7/8"IDx1.375"ODx.75 Wide
3	1	216-7300-019	Internal Snap Ring, 1.375" Bore, .050" Thk, Zinc Plated, McMaster 98409A233 or Equiv.

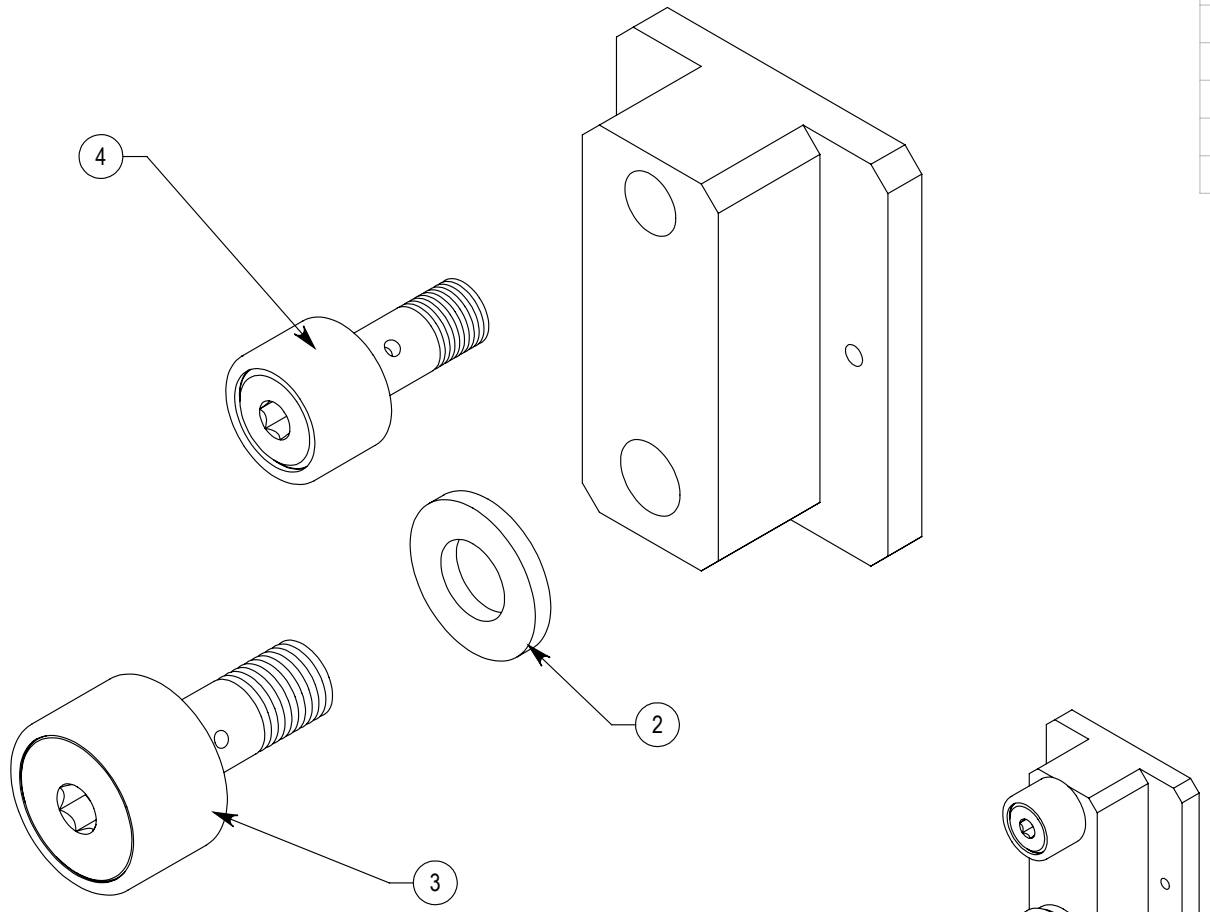
	DATE	NAME
DRAWN	3/2/10	RLP
CHECKED		

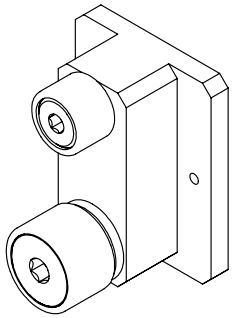
TITLE:

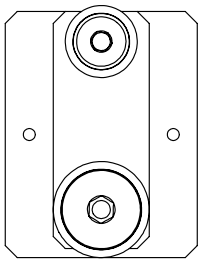
7300 Series Roller & Bearing Assembly

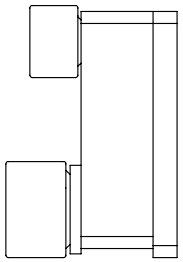
FINISH:	SIZE	DWG. NO.	REV
	A	146-7300-011	A
	SCALE: 1:1		SHEET 1 OF 1

REVISIONS				
ECN #	REV.	DESCRIPTION	DATE	APPROV.









ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	216-7300-025	7300 Drive Interlock Slide Plate
2	1	313-7300-005	Steel Washer: 7/16"IDx.75 to .922"ODx.120" Thick,McM 98025A132 or eq.
3	1	317-0000-051	Cam Follower: 1"ODx.625"wide Roller, 7/16"ODx1"length Stud (Torrington CR-16 or equivalent)
4	1	317-0000-062	Cam Follower: 3/4"ODx.5"wide Roller, 3/8"ODx7/8"length Stud (Torrington CR-12 or equivalent)

	DATE	NAME
DRAWN	12/30/09	RLP
CHECKED		

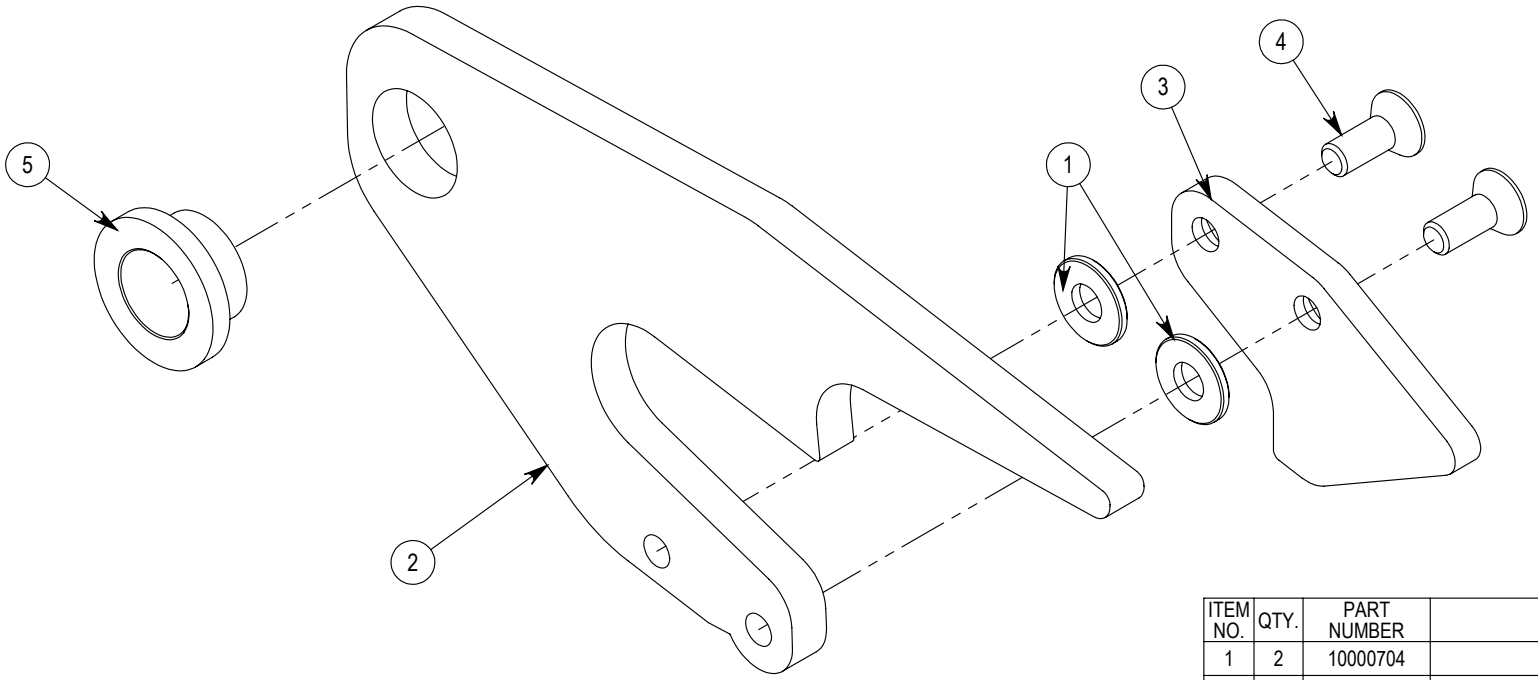
AEROTEC™

TITLE:

Door Travel Lock Assembly

FINISH:	SIZE	DWG. NO.	REV
	A	146-7300-021	
	SCALE: 1:1		SHEET 1 OF 1

REVISIONS				
ECN #	REV.	DESCRIPTION	DATE	APPROV.
	B	Removed Bearing this -025 Assy to -000 Assy	5/7/12	



ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	2	10000704	WASHER, FLAT, 10 SAE, ZP
2	1	216-7300-036	Door Travel Push Plate
3	1	216-7300-037L	Disconnect Push Plate, Left Side
4	2	310-0000-009	SCREW, FH, SOC., 10-32 X 1/2
5	1	317-7300-011	SAE 863 Flanged-Sleeve Bearing for 1/2" Shaft Dia, 5/8" OD X 3/8" L X 7/8" Flange OD, McM 2938T11 or Eq.

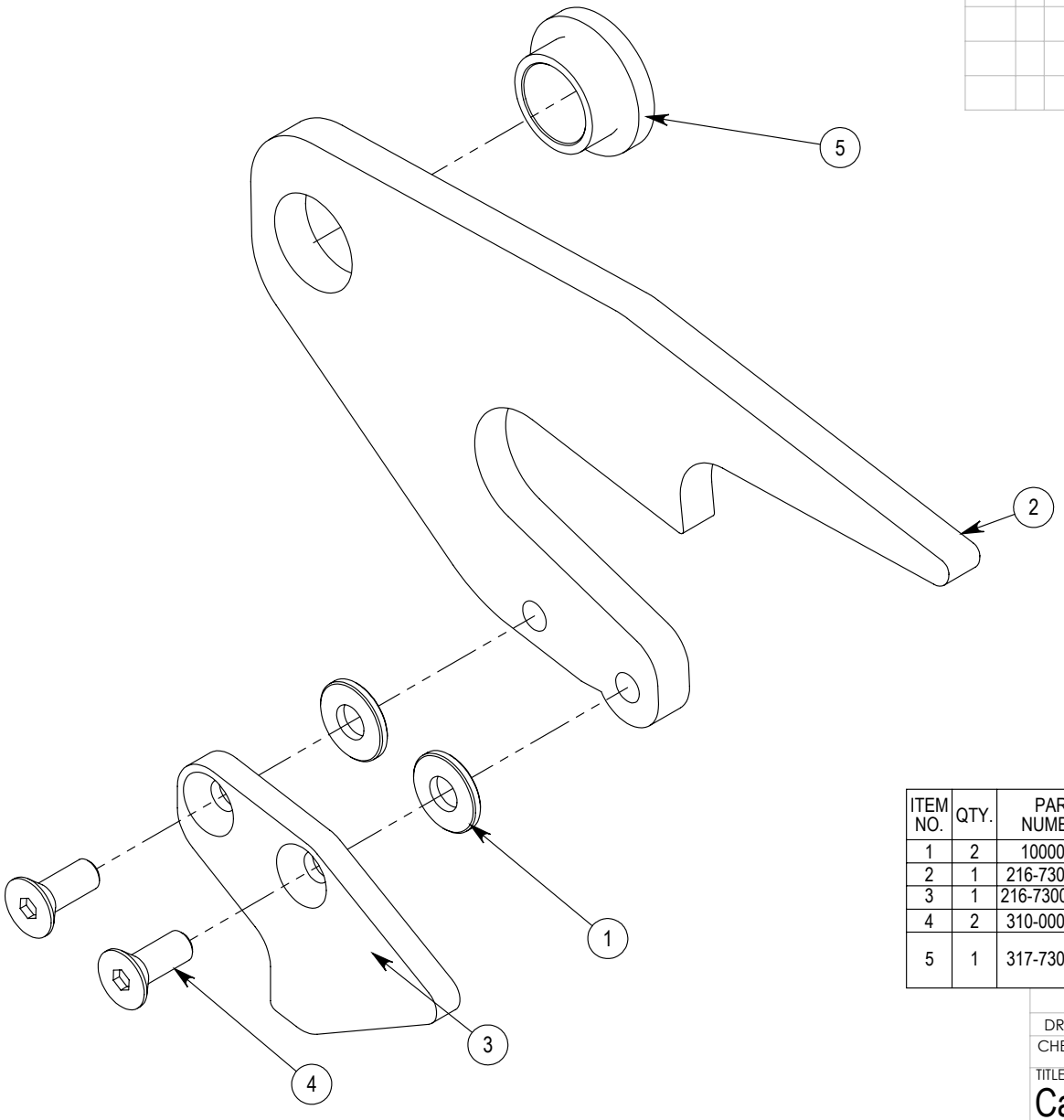
	DATE	NAME
DRAWN	3/2/10	RLP
CHECKED		

TITLE:

Carriage Push Plate Left Assembly

FINISH:	SIZE	DWG. NO.	REV
	A	146-7300-025L	B
	SCALE: 1:1		SHEET 1 OF 1

REVISIONS				
ECN #	REV.	DESCRIPTION	DATE	APPROV.
	B	Channged to Suit Slotted Drive Angle	3/1/12	



ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	2	10000704	WASHER, FLAT, 10 SAE, ZP
2	1	216-7300-036	Door Travel Push Plate
3	1	216-7300-037R	Disconnect Push Plate, Right Side
4	2	310-0000-009	SCREW, FH, SOC., 10-32 X 1/2
5	1	317-7300-011	SAE 863 Flanged-Sleeve Bearing for 1/2" Shaft Dia, 5/8" OD X 3/8" L X 7/8" Flange OD, McM 2938T11 or Eq.

	DATE	NAME
DRAWN	3/2/10	RLP
CHECKED		

TITLE:

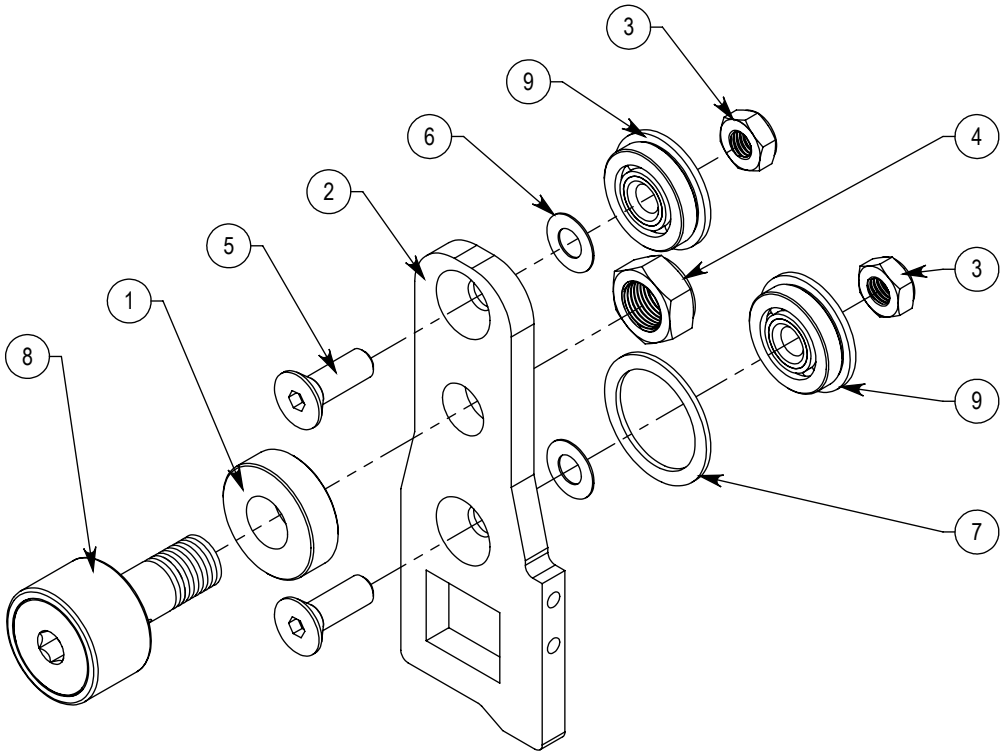
Carriage Push Plate Right Assembly

FINISH:

SIZE	DWG. NO.	REV
A	146-7300-025R	B

SCALE: 1:1 SHEET 1 OF 1

REVISIONS				
ECN #	REV.	DESCRIPTION	DATE	APPROV.
	A	Added 313-7300-018 To Reduce Assembly slop	10/4/10	



ITEM NO.	146-7300-035/ QTY.	PART NUMBER	DESCRIPTION
1	1	216-7100-182	SPACER, 1" DIA CAM-FOLLOWER
2	1	216-7300-040	Upper Lock Lug
3	2	216-7300-107	1/4"-20,Thin Hex, NyLock nut, Gr 6, Steel, Zinc Plated (McMaster 94945A205 or equiv.)
4	1	216-7300-108	7/16"-20,Thin Hex, NyLock nut, Gr 8, Steel, Zinc Plated (McMaster 90566A225 or equiv.)
5	2	310-2520-022	SCREW, FH, SOC., 1/4-20 X 3/4, Black Oxide
6	2	313-0000-011	WSHR, FLAT, .255 ID X .505 OD X .015 THK, STL
7	1	313-7300-008	7/8ID x 1.125OD x .03 to .05 Thick ZP Steel Washer
8	1	317-0000-051	Cam Follower: 1"ODx.625"wide Roller, 7/16"ODx1"length Stud (Torrington CR-16 or equivalent)
9	2	317-7300-020	Flanged Open Steel Ball Bearing for 1/4" Shaft Dia, 7/8" ODx5/16"Thick: McMaster 6383K214 or eq.

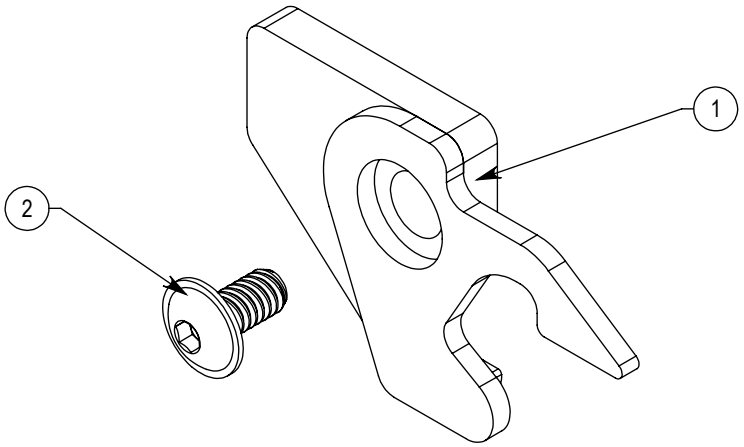
	DATE	NAME
DRAWN	3/22/10	RLP
CHECKED		

TITLE:

Lock Lug Assembly

FINISH:	SIZE	DWG. NO.	REV
	A	146-7300-035	A
	SCALE: 1:1		SHEET 1 OF 1

REVISIONS				
ECN #	REV.	DESCRIPTION	DATE	APPROV.



ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	150-7300-043	Deadlock Key Weldment
2	1	310-7300-002	1/4-20 x 1/2inch Flanged Button Head Screw McMaster 91355A081 or eq.

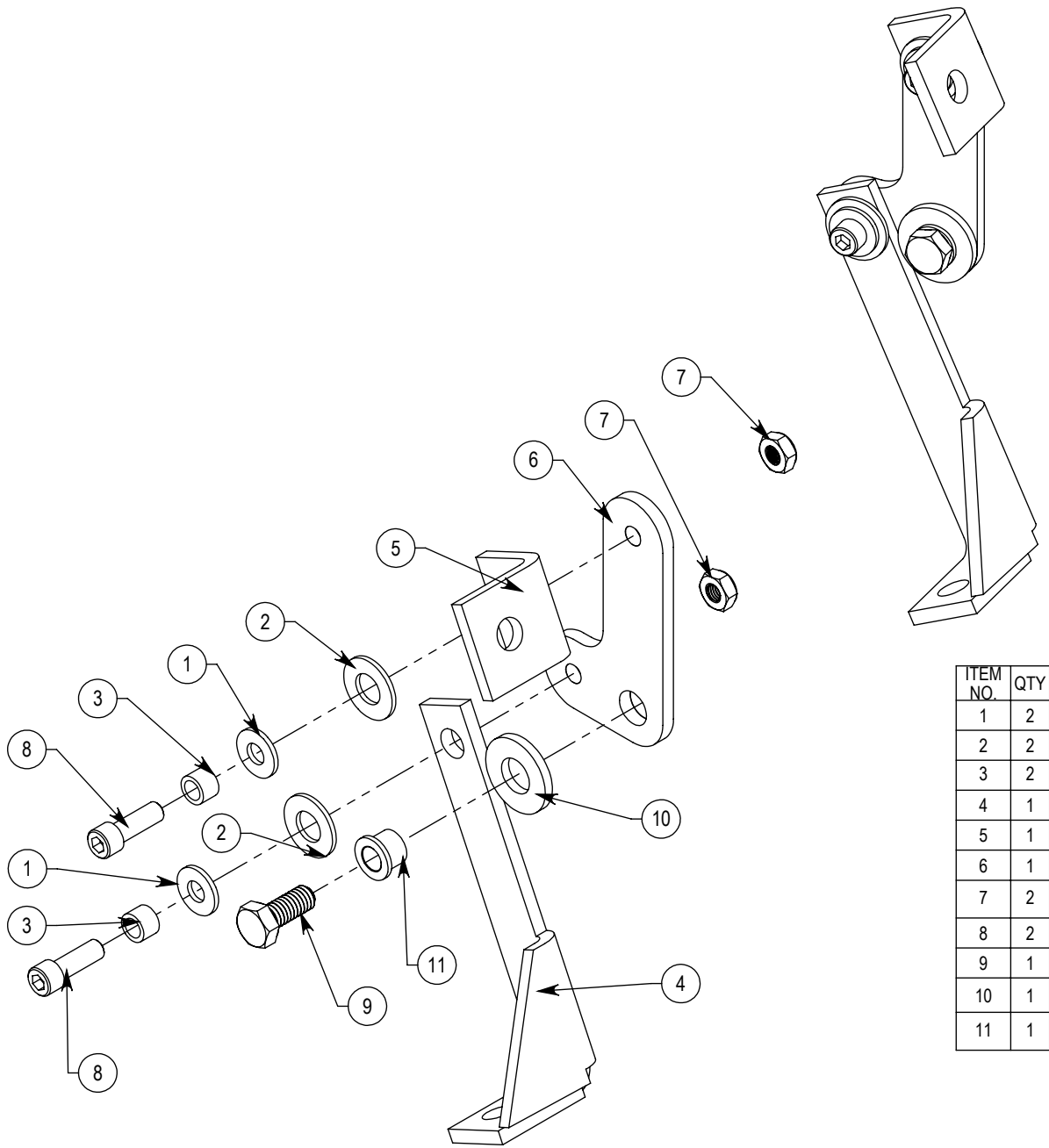
	DATE	NAME
DRAWN	4/3/10	RLP
CHECKED		

TITLE:

Deadlock Assembly

FINISH:	SIZE	DWG. NO.	REV
	A	146-7300-043	
	SCALE: 1:1		SHEET 1 OF 1

REVISIONS				
ECN #	REV.	DESCRIPTION	DATE	APPROV.



ITEM NO.	QTY	PART NUMBER	DESCRIPTION
1	2	10000706	WASHER, FLAT, 1/4 SAE, ZP
2	2	10000708	WASHER, FLAT, 3/8 SAE, ZP
3	2	216-7300-028	Manual Release Pivot Arm Spacer
4	1	216-7300-044	7300 Vertical OR CAM Attachement Bracket
5	1	216-7300-045	Horizontal OR CAM Attachment
6	1	216-7300-046	Override Bell Crank
7	2	216-7300-107	1/4"-20,Thin Hex, NyLock nut, Gr 6, Steel, Zinc Plated (McMaster 94945A205 or equiv.)
8	2	310-2520-006	Screw SHCS 1/4-20X3/4 Steel Zc Plt
9	1	310-3118-008	SCREW, HEX CAP, 5/16-18 X 3/4, ZP
10	1	313-7300-005	Steel Washer: 7/16"IDx.75 to 1"ODx.120" Thick,McM 98029A032 or Seas 5702-149-120
11	1	317-0000-018	Flanged Bushing, .313"ID x .438"OD x .312"Len w/.56"OD x .062"len Flange, Berg 7-38 or eq

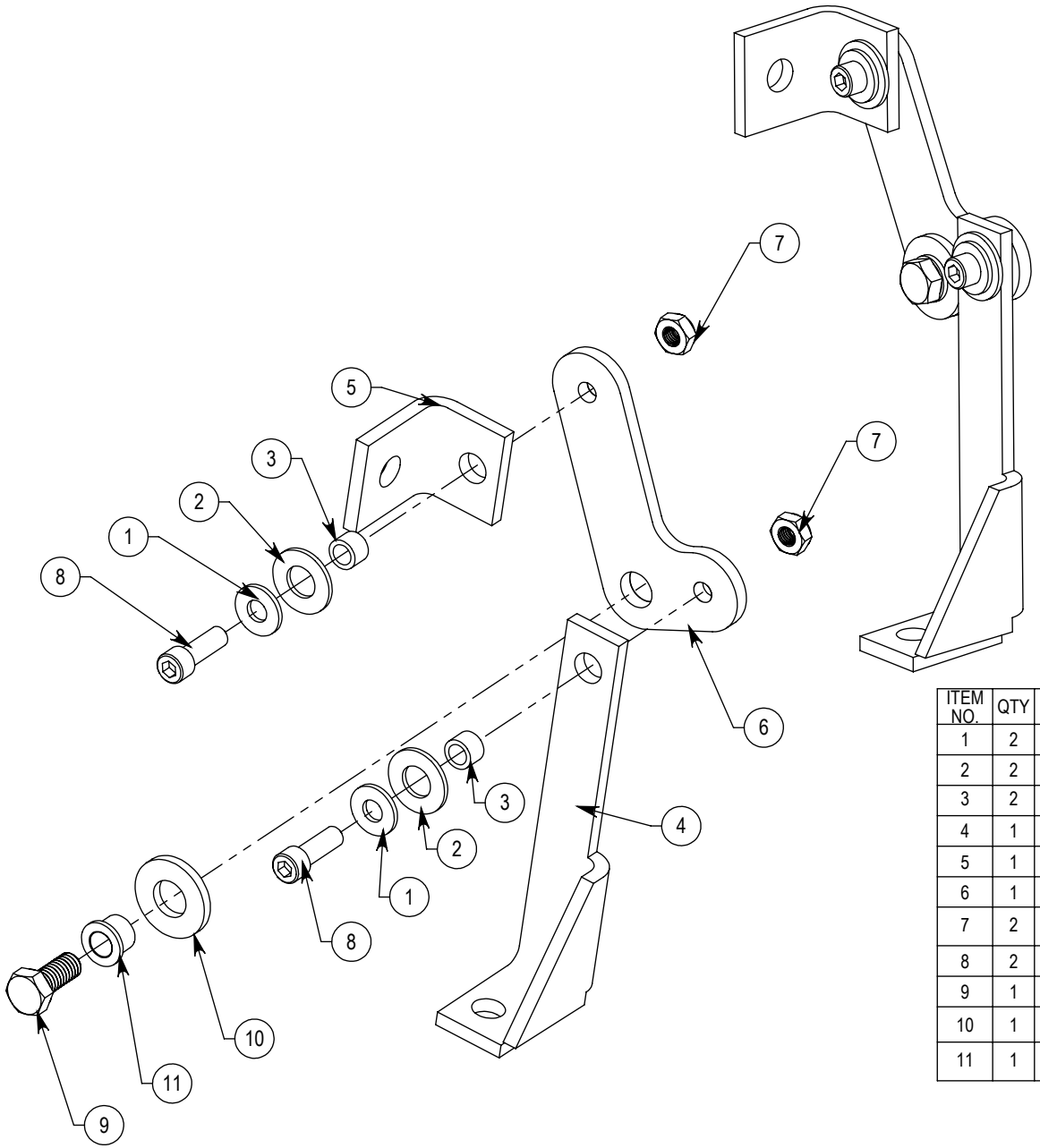
	DATE	NAME
DRAWN	12/29/10	RLP
CHECKED		

TITLE:

Left Pull Override CAM Assembly

FINISH:	SIZE	DWG. NO.	REV
	A	146-7300-046L	
	SCALE: 1:2		SHEET 1 OF 1

Left Pull Override CAM Assembly



REVISIONS				
ECN #	REV.	DESCRIPTION	DATE	APPROV.

ITEM NO.	QTY	PART NUMBER	DESCRIPTION
1	2	10000706	WASHER, FLAT, 1/4 SAE, ZP
2	2	10000708	WASHER, FLAT, 3/8 SAE, ZP
3	2	216-7300-028	Manual Release Pivot Arm Spacer
4	1	216-7300-044	7300 Vertical OR CAM Attachement Bracket
5	1	216-7300-045	Horizontal OR CAM Attachment
6	1	216-7300-046	Override Bell Crank
7	2	216-7300-107	1/4"-20,Thin Hex, NyLock nut, Gr 6, Steel, Zinc Plated (McMaster 94945A205 or equiv.)
8	2	310-2520-006	Screw SHCS 1/4-20X3/4 Steel Zc Plt
9	1	310-3118-008	SCREW, HEX CAP, 5/16-18 X 3/4, ZP
10	1	313-7300-005	Steel Washer: 7/16"IDx.75 to 1"ODx.120" Thick,McM 98029A032 or Seas 5702-149-120
11	1	317-0000-018	Flanged Bushing, .313"ID x .438"OD x .312"Len w/.56"OD x .062"len Flange, Berg 7-38 or eq

	DATE	NAME
DRAWN	12/29/10	RLP
CHECKED		

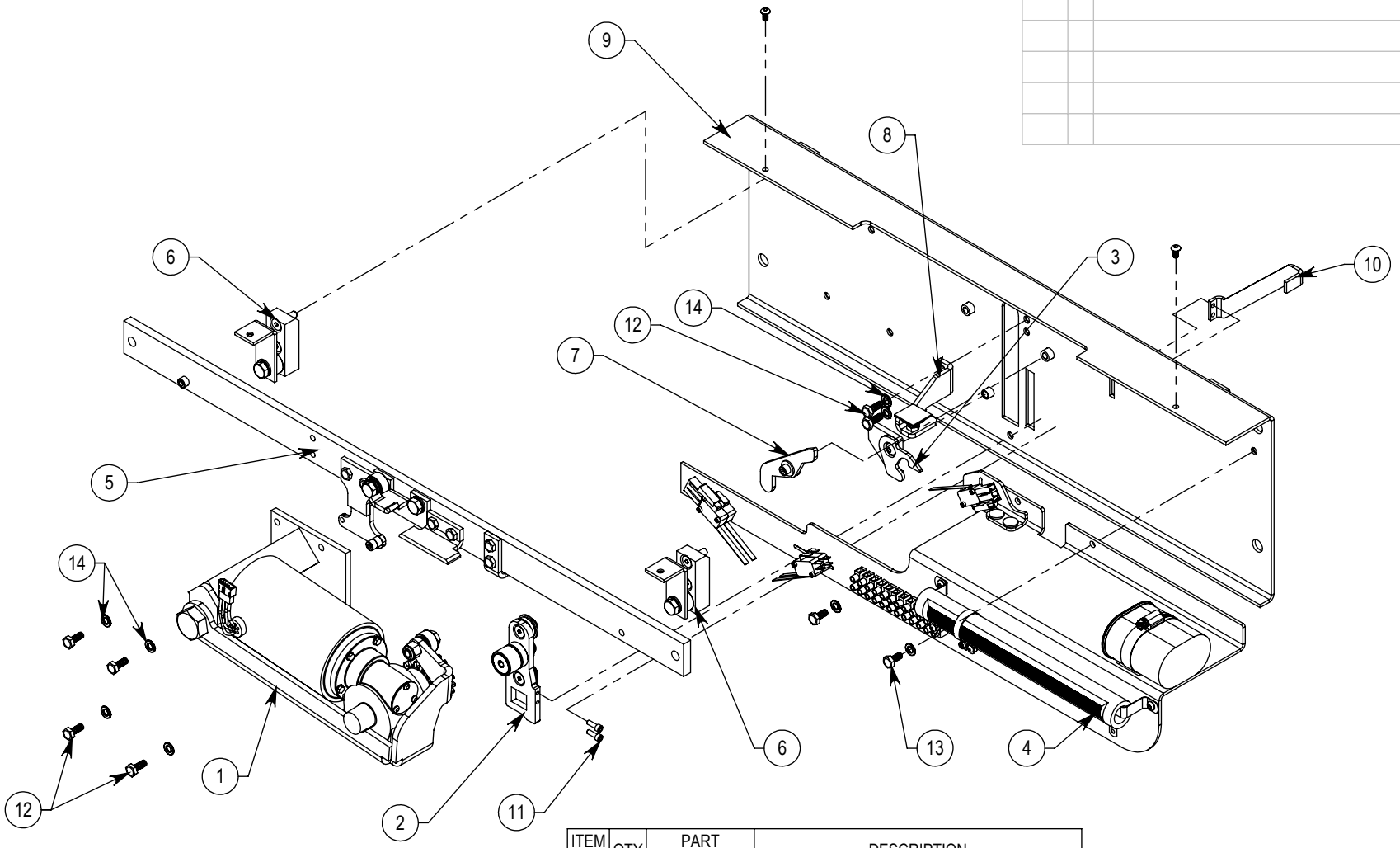
TITLE:

Right Pull Override CAM Assembly

FINISH:	SIZE	DWG. NO.	REV
	A	146-7300-046R	
	SCALE: 1:2		SHEET 1 OF 1

Right Pull Override CAM Assembly

REVISIONS				
ECN #	REV.	DESCRIPTION	DATE	APPROV.



ITEM NO.	QTY	PART NUMBER	DESCRIPTION
1	1	146-7300-002	Motor Pivot Assembly
2	1	146-7300-035	Lock Lug Assembly
3	1	146-7300-043	Deadlock Assembly
4	1	146-7300-061	7300 Electrical Bracket Assembly
5	1	146-7300-062L	Manual Override Bar Assembly Left Pull
6	2	146-7300-063	Manual Override Bar Retainer Assembly
7	1	146-7300-064L	Manual Release Left Pull Pivot Assembly
8	1	146-7300-065	Motor Stop Assembly
9	1	150-7300-060	7300 Subplate Weldment
10	1	216-7300-042	Lock Bar Indication Lever
11	2	310-0832-009	SCREW, SHCS 8-32 X 1/2
12	6	310-2520-001	BOLT, HEX HD, 1/4-20 X .62 LG, STL, PLATED
13	2	310-2520-037	BOLT, HEX HD, 1/4-20 X 9/16 LG, STL, PLATED
14	8	313-0000-003	WSHR, LOCK, SPLIT, 1/4, STL, PLTD

	DATE	NAME
DRAWN	5/7/10	RLP
CHECKED		

TITLE:

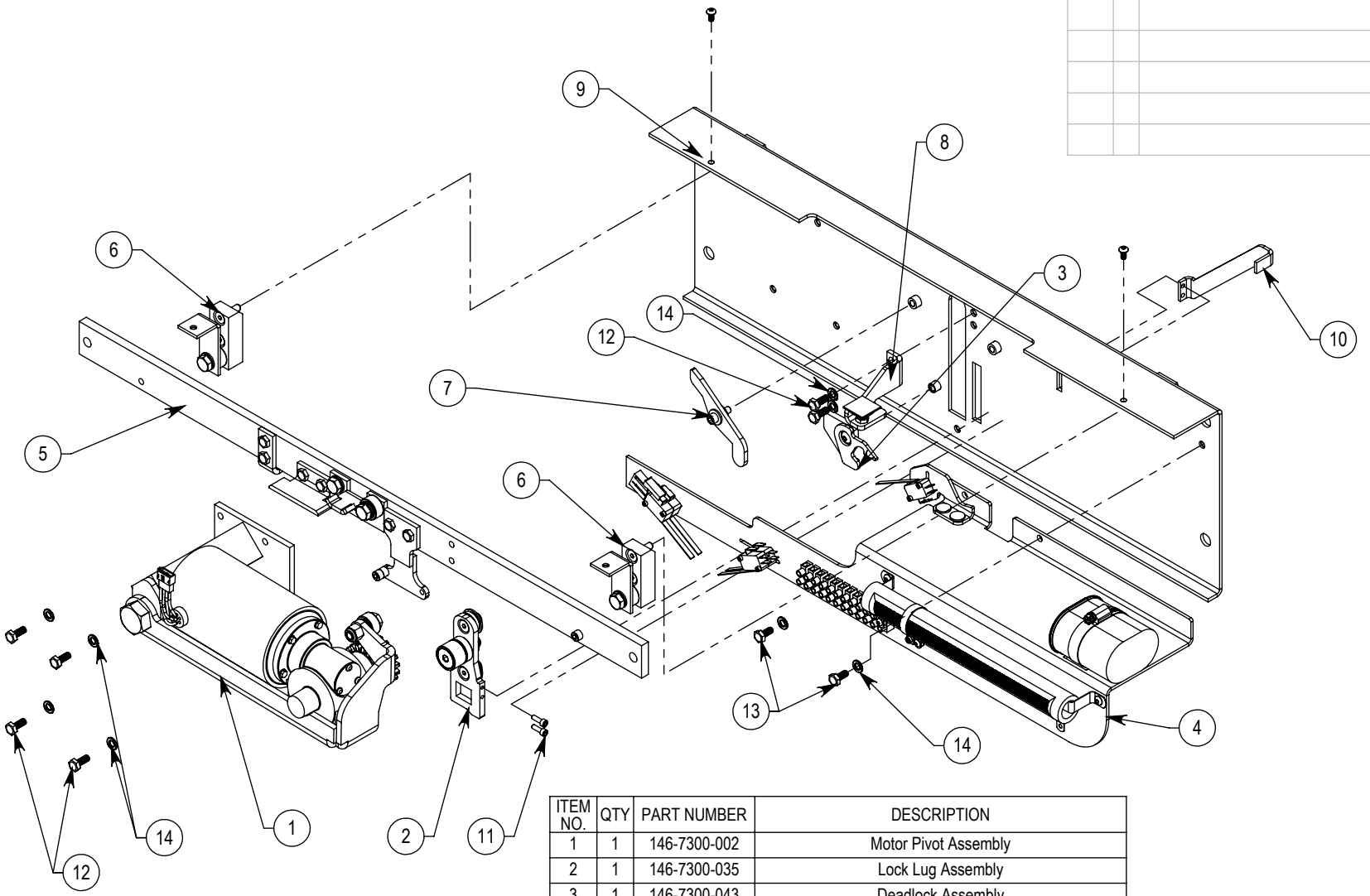
7300 Main Override Assembly, Left Pull

FINISH:

SIZE	DWG. NO.	REV
A	146-7300-060L	

SCALE: 1:6 SHEET 1 OF 1

REVISIONS				
ECN #	REV.	DESCRIPTION	DATE	APPROV.



ITEM NO.	QTY	PART NUMBER	DESCRIPTION
1	1	146-7300-002	Motor Pivot Assembly
2	1	146-7300-035	Lock Lug Assembly
3	1	146-7300-043	Deadlock Assembly
4	1	146-7300-061	7300 Electrical Bracket Assembly
5	1	146-7300-062R	Manual Override Bar Assembly Right Pull
6	2	146-7300-063	Manual Override Bar Retainer Assembly
7	1	146-7300-064R	Manual Release Right Pull Pivot Assembly
8	1	146-7300-065	Motor Stop Assembly
9	1	150-7300-060	7300 Subplate Weldment
10	1	216-7300-042	Lock Bar Indication Lever
11	2	310-0832-009	SCREW, SHCS 8-32 X 1/2
12	6	310-2520-001	BOLT, HEX HD, 1/4-20 X .62 LG, STL, PLATED
13	2	310-2520-037	BOLT, HEX HD, 1/4-20 X 9/16 LG, STL, PLATED
14	8	313-0000-003	WSHR, LOCK, SPLIT, 1/4, STL, PLTD

	DATE	NAME
DRAWN	5/7/10	RLP
CHECKED		

TITLE:

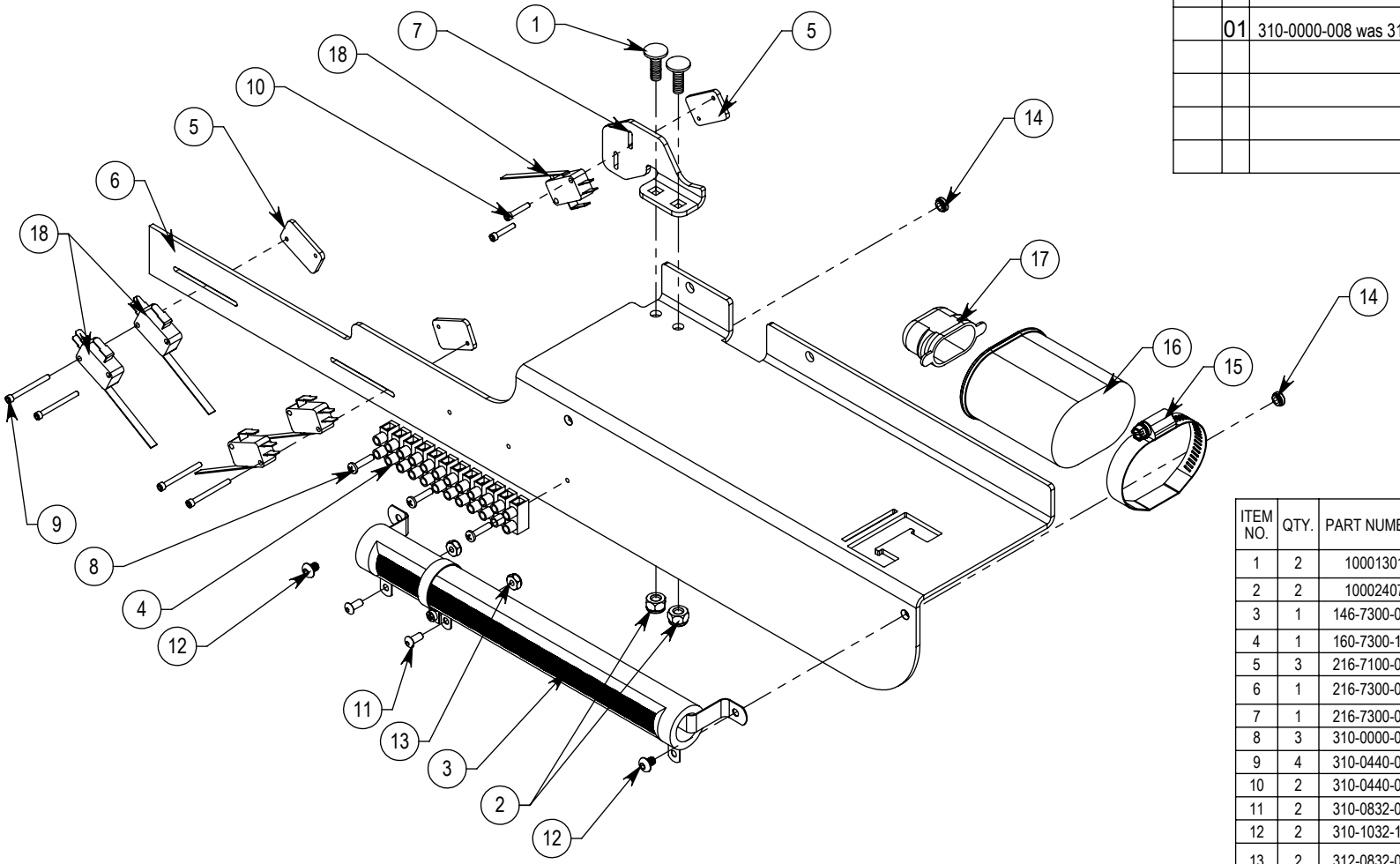
7300 Main Override Assembly, Right Pull

FINISH:

SIZE A | DWG. NO. 146-7300-060R | REV

SCALE: 1:6 | SHEET 1 OF 1

REVISIONS				
ECN #	REV.	DESCRIPTION	DATE	APPROV.
	01	310-0000-008 was 310-0330-004; add 146-7300-003	8/8/11	MER



ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	2	10001301	Carriage Screw, 1/4-20 x 3/4" Length
2	2	10002407	NUT, 1/4-20 NYLOCK ZINC PLATED
3	1	146-7300-080	7300 Torque Adj. Resistor & Bracket Assembly
4	1	160-7300-100	7300 Series Wire Harness
5	3	216-7100-030	SWITCH NUT PLATE
6	1	216-7300-080	Door Travel Limit Switch Mounting Plate
7	1	216-7300-083	Lock Bar Down Status Switch Bracket
8	3	310-0000-008	6-32 X 5/8, Pan Head Phillips, zinc plated
9	4	310-0440-026	SCREW, SHCS, 4-40 X 1 1/4, BLK
10	2	310-0440-034	SCREW, SHCS, 4-40 X 5/8, BLK
11	2	310-0832-013	SCREW, BH SOC., 8-32 X 3/8
12	2	310-1032-178	SCREW, BHCS, HEX 10-32UNF X 1/4"
13	2	312-0832-005	NUT, 8-32, Thin NYLOCK, McMaster 90101A009 or eq.
14	2	312-1032-004	ss-032-2-zi, #10-32 PEM NUT
15	1	319-0000-112	BAND CLAMP, 2.5Dia x1/2 Wide
16	1	340-0000-359	20uF, 370VAC, Capacitor, Oil-Filled; Metallized Polypropy; Case C Oval
17	1	340-7300-003	Capacitor Boot, Digikey 338-1852-ND or Lavelle M8067
18	5	82008801	SWITCH, Honeywell #V7-6B19D8-057 or Eq.

	DATE	NAME
DRAWN	4/6/10	RLP
CHECKED		

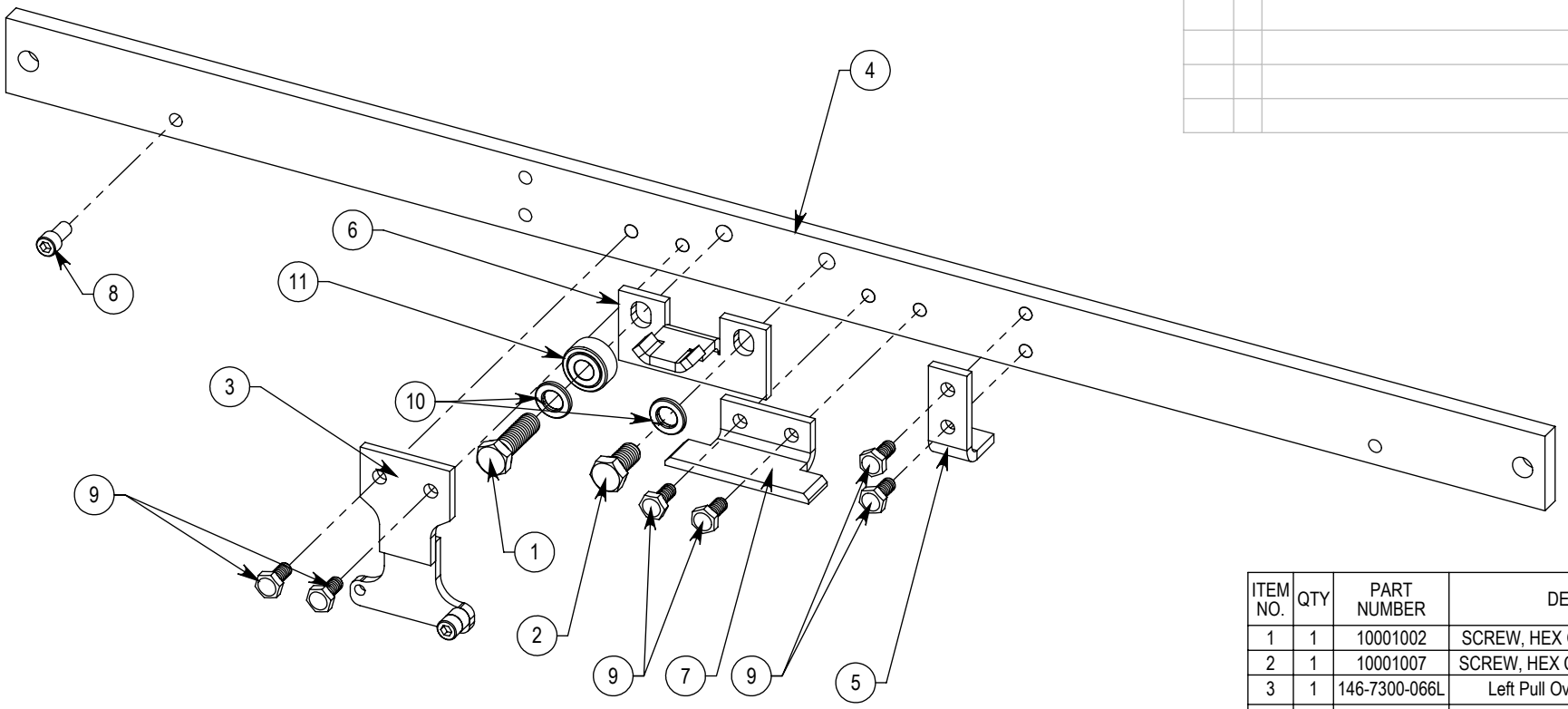
AERTEC™

TITLE:

7300 Electrical Bracket Assembly

FINISH:	SIZE	DWG. NO.	REV
	A	146-7300-061	01
	SCALE: 1:3		SHEET 1 OF 1

REVISIONS				
ECN #	REV.	DESCRIPTION	DATE	APPROV.
	A	Changed 5/16 Screws from Hex to Button For ease of Adjustement	7/13/10	



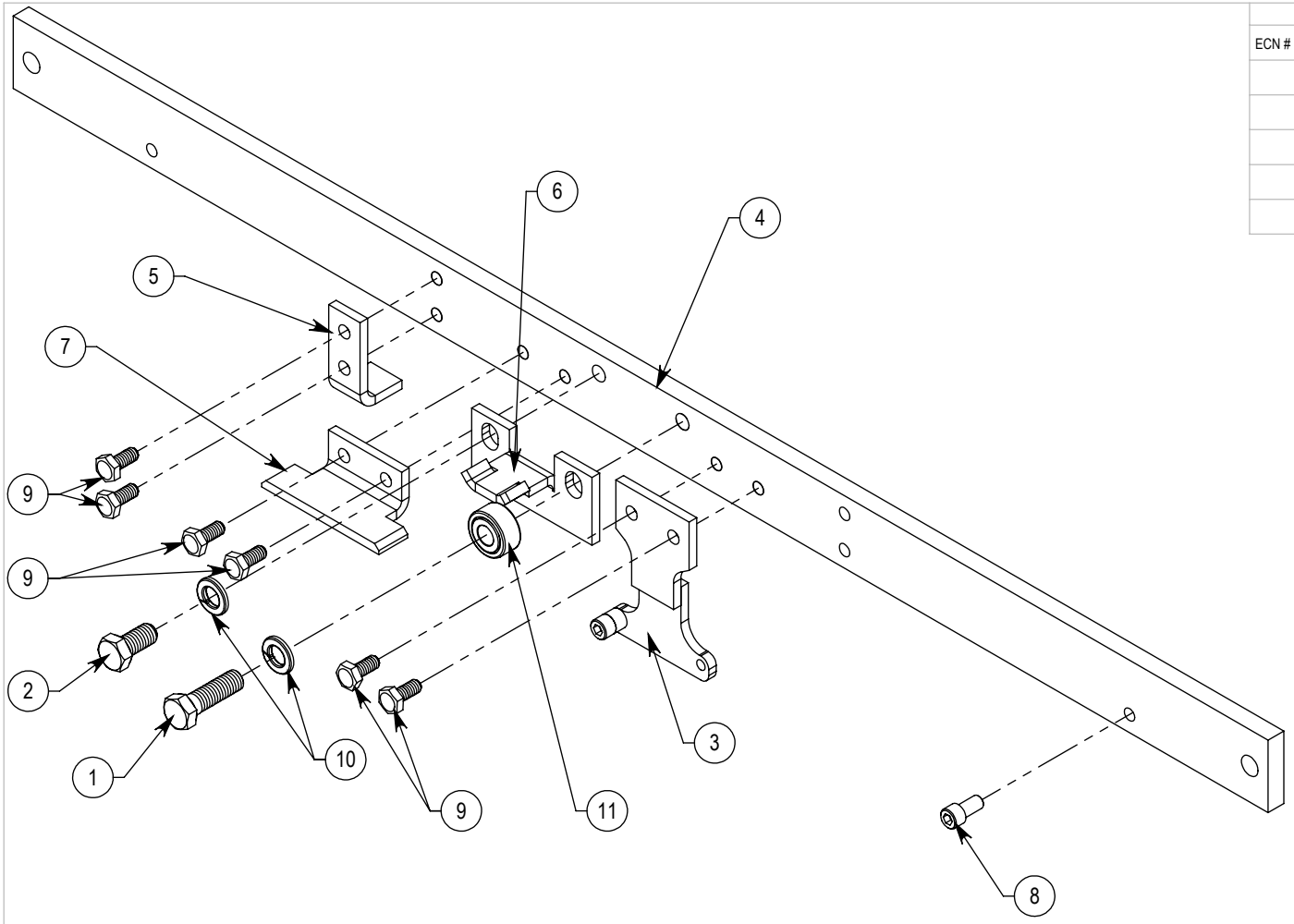
ITEM NO.	QTY	PART NUMBER	DESCRIPTION
1	1	10001002	SCREW, HEX GR#8 3/8-16 X 1-1/4, ZP
2	1	10001007	SCREW, HEX CAP, 3/8-16 x3/4, Gr5 ZP
3	1	146-7300-066L	Left Pull Override Tab Assembly
4	1	216-7300-065	Manual Release Arm
5	1	216-7300-068	Manual Release Rocker Actuator
6	1	216-7300-077	Motor Mount Drive Position Plate
7	1	216-7300-079	Manual Override Motor Raise Ramp
8	1	310-2520-035	SCREW, SHCS 1/4-20 X .500, BLACK
9	6	310-2520-037	BOLT, HEX HD, 1/4-20 X 9/16 LG, STL, PLATED
10	2	313-0000-115	Washer Lock split spring 3/8 Zinc Plated
11	1	317-7300-022	Double Row, Unground Steel Ball Bearing for 3/8" Shaft Dia, 7/8" ODx 7/16"Thick, Kilian D-2269 or eq.

	DATE	NAME
DRAWN	4/6/10	RLP
CHECKED		

TITLE:

Manual Override Bar Assembly Left Pull

FINISH:	SIZE	DWG. NO.	REV
	A	146-7300-062L	A
	SCALE: 1:3		SHEET 1 OF 1



REVISIONS				
ECN #	REV.	DESCRIPTION	DATE	APPROV.
	A	Changed 5/16 Screws from Hex to Button For ease of Adjustement	7/13/10	

ITEM NO.	QTY	PART NUMBER	DESCRIPTION
1	1	10001002	SCREW, HEX GR#8 3/8-16 X 1-1/4, ZP
2	1	10001007	SCREW, HEX CAP, 3/8-16 x3/4, Gr5 ZP
3	1	146-7300-066R	Right Pull Override Tab Assembly
4	1	216-7300-065	Manual Release Arm
5	1	216-7300-068	Manual Release Rocker Actuator
6	1	216-7300-077	Motor Mount Drive Position Plate
7	1	216-7300-079	Manual Override Motor Raise Ramp
8	1	310-2520-035	SCREW, SHCS 1/4-20 X .500, BLACK
9	6	310-2520-037	BOLT, HEX HD, 1/4-20 X 9/16 LG, STL, PLATED
10	2	313-0000-115	Washer Lock split spring 3/8 Zinc Plated
11	1	317-7300-022	Double Row, Unground Steel Ball Bearing for 3/8" Shaft Dia, 7/8" ODx 7/16"Thick, Kilian D-2269 or eq.

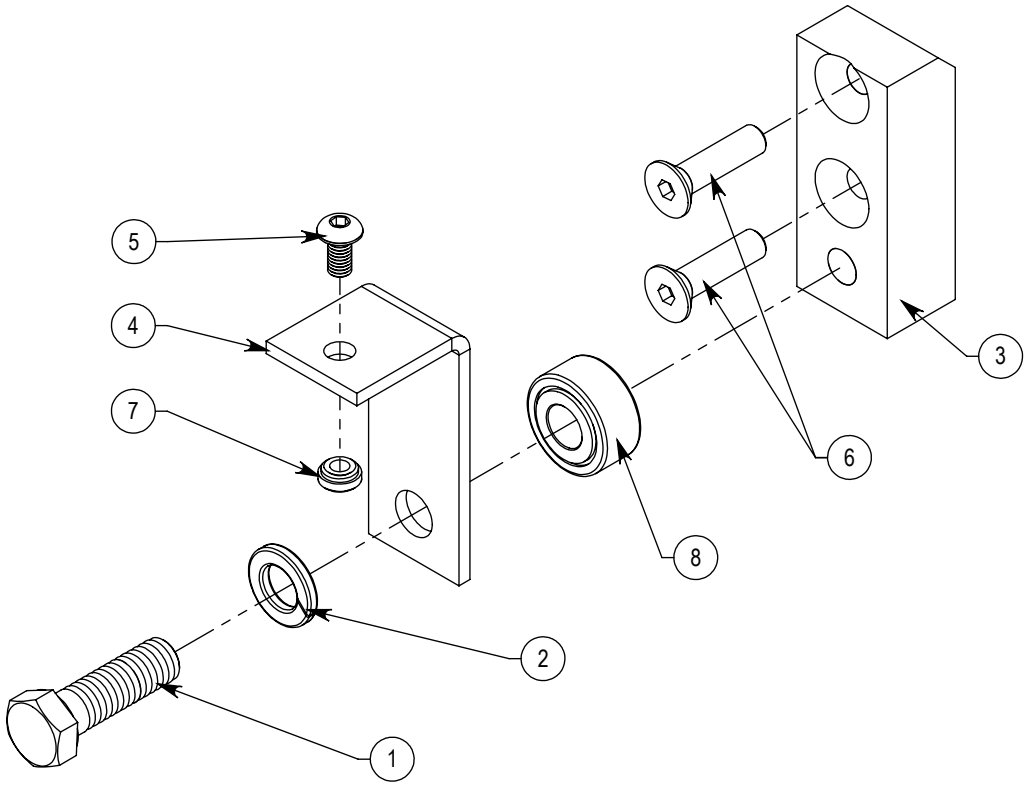
	DATE	NAME
DRAWN	4/6/10	RLP
CHECKED		

TITLE:

Manual Override Bar Assembly Right Pull

FINISH:	SIZE	DWG. NO.	REV
	A	146-7300-062R	A
	SCALE: 1:3		SHEET 1 OF 1

REVISIONS				
ECN #	REV.	DESCRIPTION	DATE	APPROV.



ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	10001002	SCREW, HEX GR#8 3/8-16 X 1-1/4, ZP
2	1	10001408	WASHER, 3/8 LOCK HELICAL SPRING ZP
3	1	216-7300-067	Manual Release Roller Support Plate
4	1	216-7300-076	Manual Release Bar Retainer Bracket
5	1	310-1032-009	SCREW BH SOC 10-32 X .375
6	2	310-2520-033	SCREW FH SOC 1/4-20X1IN LG BK Oxide
7	1	312-1032-004	PEM NUT, 10-32, ss-032-2-zi
8	1	317-7300-022	Double Row, Unground Steel Ball Bearing for 3/8" Shaft Dia, 7/8" ODx 7/16"Thick, Kilian D-2269 or eq.

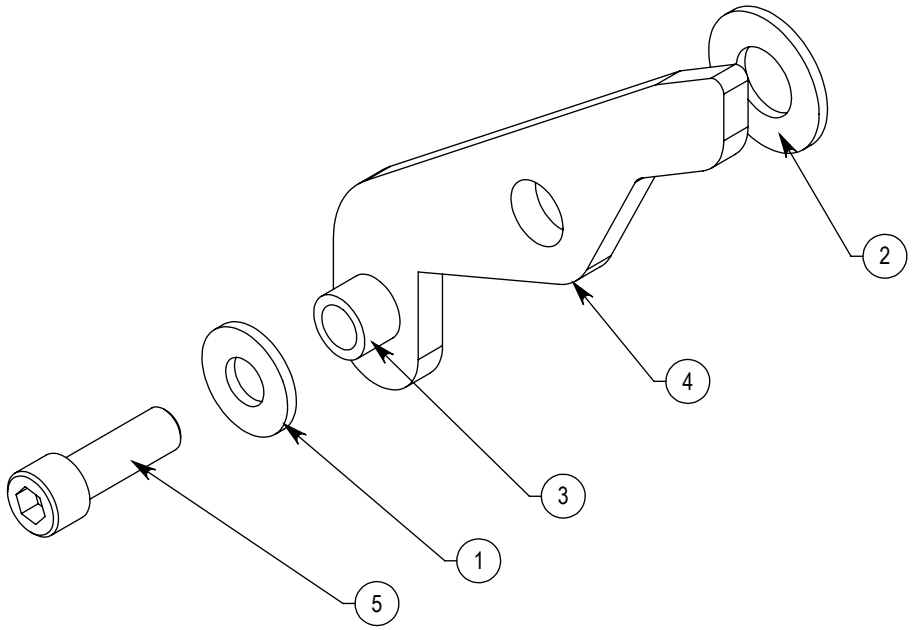
	DATE	NAME
DRAWN	4/3/10	RLP
CHECKED		

TITLE:

Manual Override Bar Retainer Assembly

FINISH:	SIZE	DWG. NO.	REV
	A	146-7300-063	
	SCALE: 1:1.5		SHEET 1 OF 1

REVISIONS				
ECN #	REV.	DESCRIPTION	DATE	APPROV.
	A	Changed All Parts, to Not Interfere and Increase Throw	10/6/10	



ITEM NO.	QTY	PART NUMBER	DESCRIPTION
1	1	10000706	WASHER, FLAT, 1/4 SAE, ZP
2	1	10000708	WASHER, FLAT, 3/8 SAE, ZP
3	1	216-7300-028	Manual Release Pivot Arm Spacer
4	1	216-7300-064	Manual Release Pivot Arm
5	1	310-2520-006	Screw SHCS 1/4-20X3/4 Steel Zc Plt

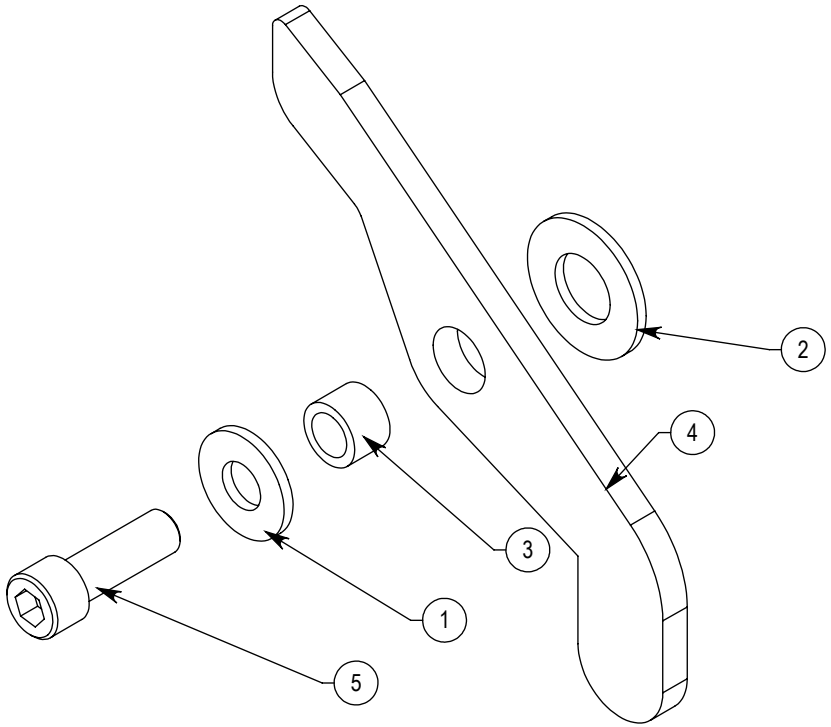
	DATE	NAME
DRAWN	10/6/10	RLP
CHECKED		

TITLE:

Manual Release Left Pull Pivot Assembly

FINISH:	SIZE	DWG. NO.	REV
	A	146-7300-064L	A
	SCALE: 1:1		SHEET 1 OF 1

REVISIONS				
ECN #	REV.	DESCRIPTION	DATE	APPROV.
	A	Changed All Parts, to Not Interfere and Increase Throw	10/6/10	



ITEM NO.	QTY	PART NUMBER	DESCRIPTION
1	1	10000706	WASHER, FLAT, 1/4 SAE, ZP
2	1	10000708	WASHER, FLAT, 3/8 SAE, ZP
3	1	216-7300-028	Manual Release Pivot Arm Spacer
4	1	216-7300-064	Manual Release Pivot Arm
5	1	310-2520-006	Screw SHCS 1/4-20X3/4 Steel Zc Plt

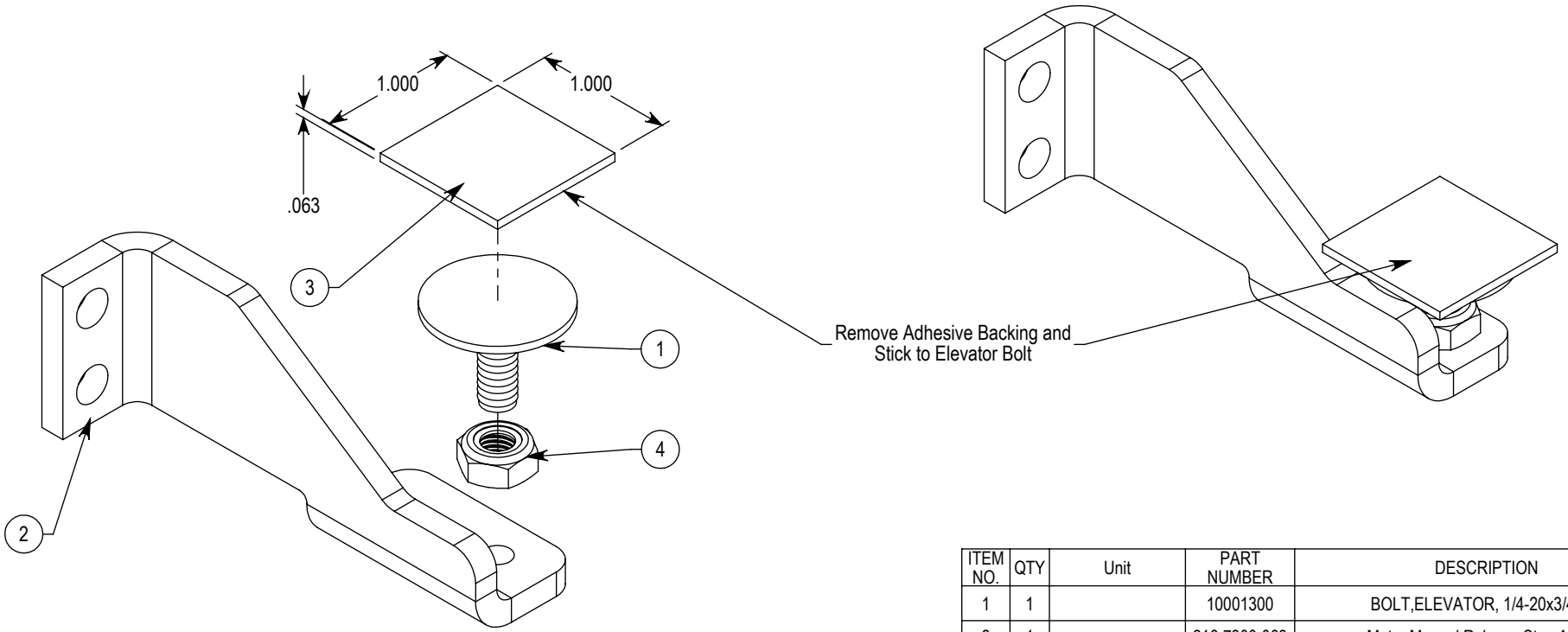
	DATE	NAME
DRAWN	10/6/10	RLP
CHECKED		

TITLE:

Manual Release Right Pull Pivot Assembly

FINISH:	SIZE	DWG. NO.	REV
	A	146-7300-064R	A
	SCALE: 1:1		SHEET 1 OF 1

REVISIONS				
ECN #	REV.	DESCRIPTION	DATE	APPROV.
	A	Uses Rev B 216-7300-063 w/lower tab	5/6/11	



ITEM NO.	QTY	Unit	PART NUMBER	DESCRIPTION
1	1		10001300	BOLT,ELEVATOR, 1/4-20x3/4 ZP
2	1		216-7300-063	Motor Manual Release Stop Anchor
3	1	1 square inch	216-7300-090	Motor Hold Down Pad
4	1		216-7300-107	1/4"-20,Thin Hex, NyLock nut, Gr 6, Steel, Zinc Plated (McMaster 94945A205 or equiv.)

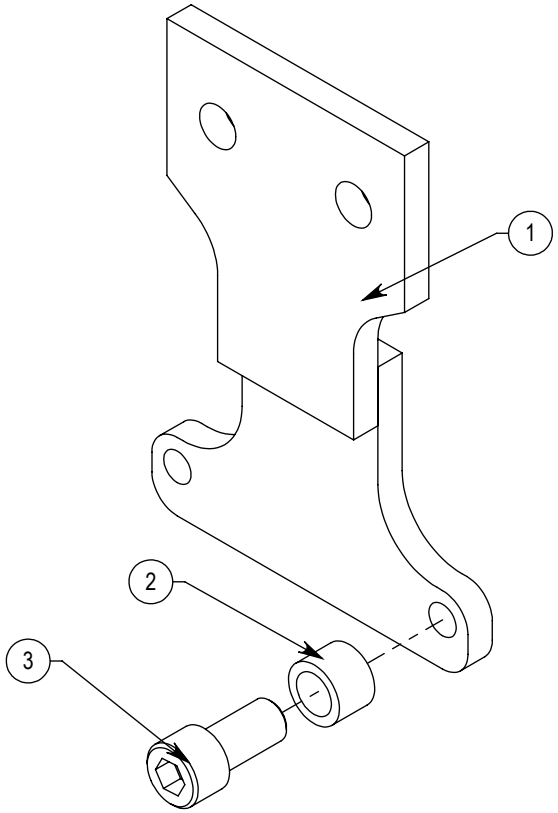
	DATE	NAME
DRAWN	4/3/10	RLP
CHECKED		

TITLE:

Motor Stop Assembly

FINISH:	SIZE	DWG. NO.	REV
	A	146-7300-065	A
	SCALE: 1:1		SHEET 1 OF 1

REVISIONS				
ECN #	REV.	DESCRIPTION	DATE	APPROV.



ITEM NO.	QTY	PART NUMBER	DESCRIPTION
1	1	150-7300-066	Manual Override Straight Pull Weldment
2	1	216-7300-028	Manual Release Pivot Arm Spacer
3	1	310-2520-035	SCREW, SHCS 1/4-20 X .500, BLACK

	DATE	NAME
DRAWN	12/27/10	RLP
CHECKED		

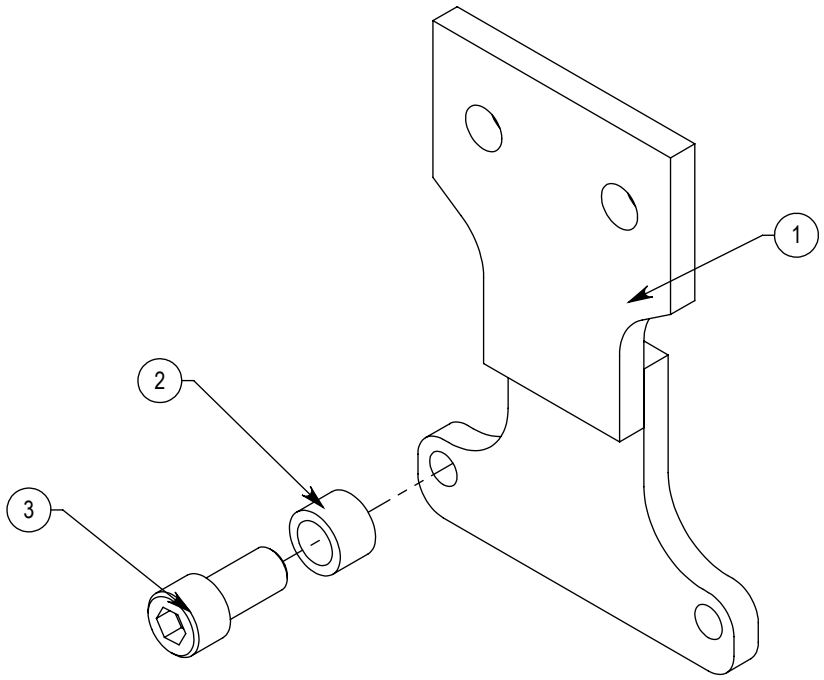
TITLE:

Left Pull Override Tab Assembly

FINISH:	SIZE	DWG. NO.	REV
	A	146-7300-066L	
	SCALE: 1:1		SHEET 1 OF 1

Left Pull Override Tab Assembly

REVISIONS				
ECN #	REV.	DESCRIPTION	DATE	APPROV.



Right Pull Override Tab Assembly

ITEM NO.	QTY	PART NUMBER	DESCRIPTION
1	1	150-7300-066	Manual Override Straight Pull Weldment
2	1	216-7300-028	Manual Release Pivot Arm Spacer
3	1	310-2520-035	SCREW, SHCS 1/4-20 X .500, BLACK

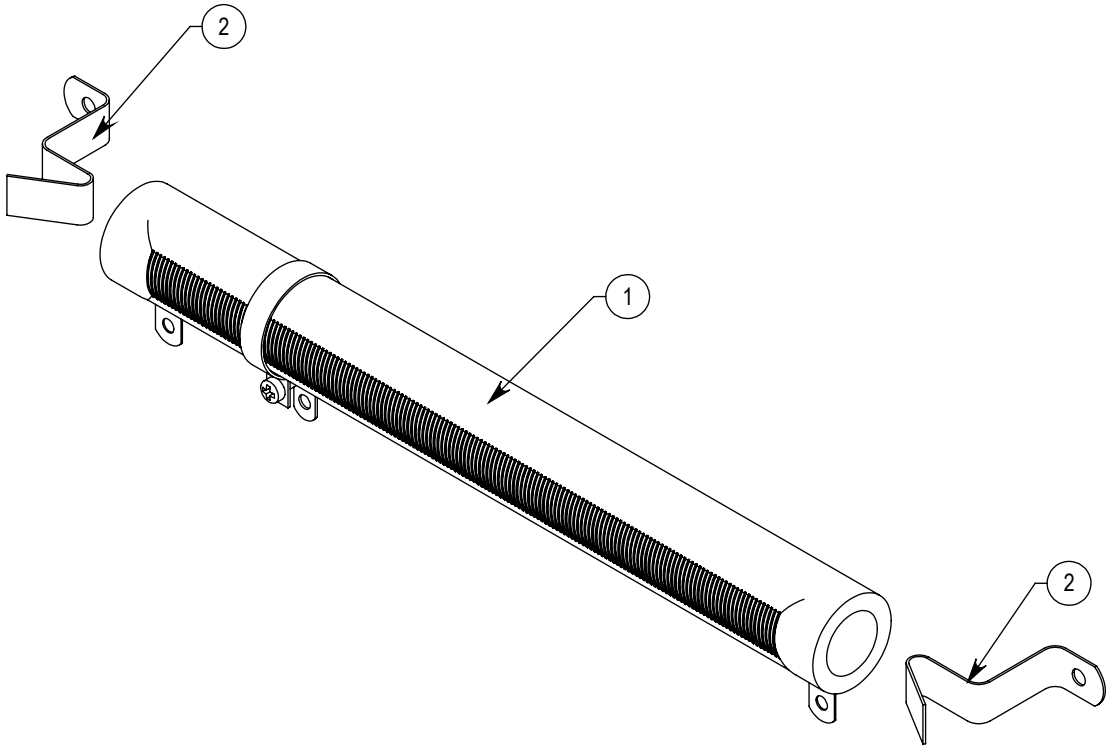
	DATE	NAME
DRAWN	12/27/10	RLP
CHECKED		

TITLE:

Right Pull Override Tab Assembly

FINISH:	SIZE	DWG. NO.	REV
	A	146-7300-066R	
	SCALE: 1:1		SHEET 1 OF 1

REVISIONS				
ECN #	REV.	DESCRIPTION	DATE	APPROV.



7300 Torque Adjustment Resistor and Bracket Assembly

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	340-7300-001	Var Power Res. Digikey D225K50RE-ND
2	2	340-7300-002	Mounting Bracket Digikey 18E-100-ND

	DATE	NAME
DRAWN	10/7/10	RLP
CHECKED		

TITLE:

7300 Torque Adjustment Resistor and Bracket Assembly

FINISH:	SIZE	DWG. NO.	REV
	A	146-7300-080	
	SCALE: 1:2		SHEET 1 OF 1