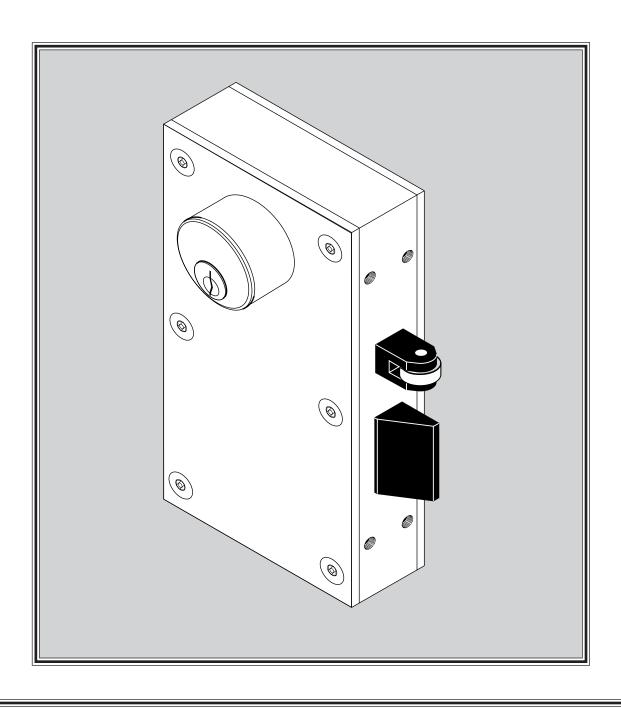
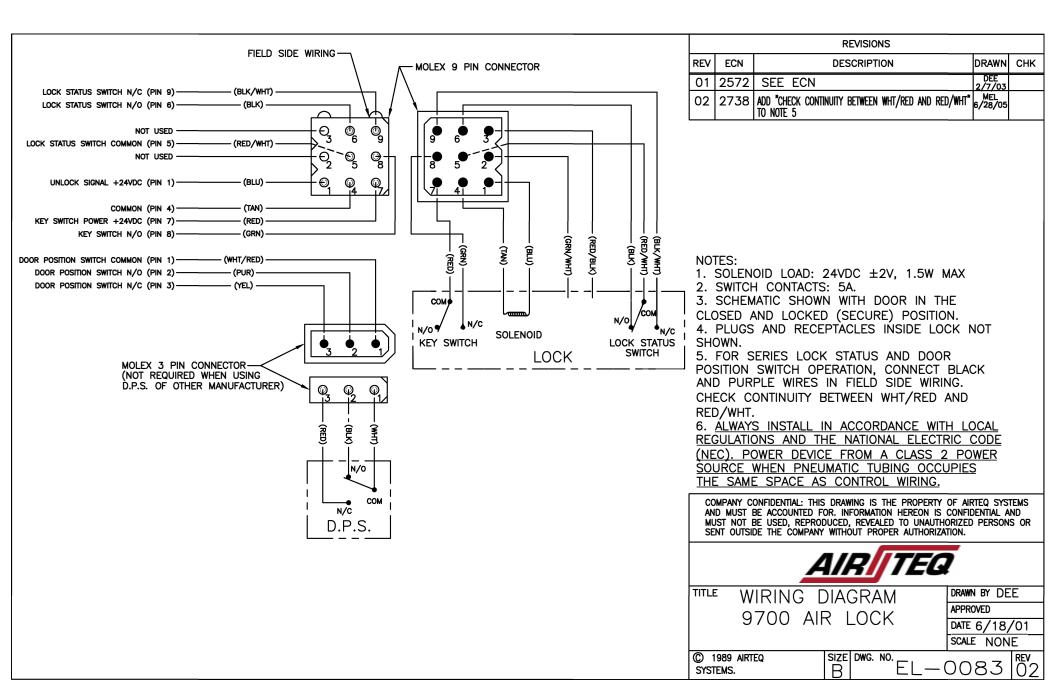


# 9700 SERIES LOCK



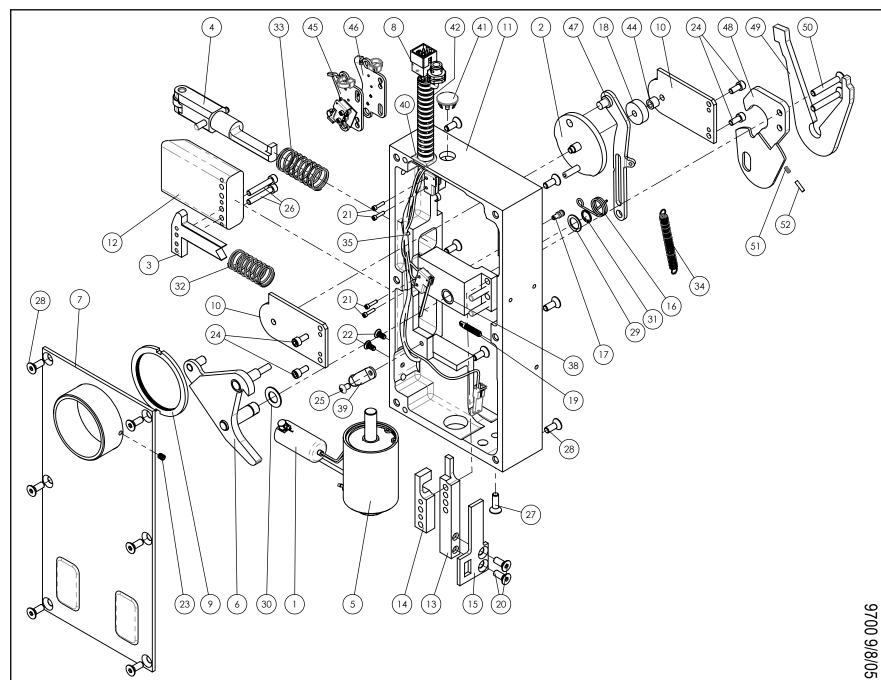




# AIRTEQ

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9700 SERIES LOCK



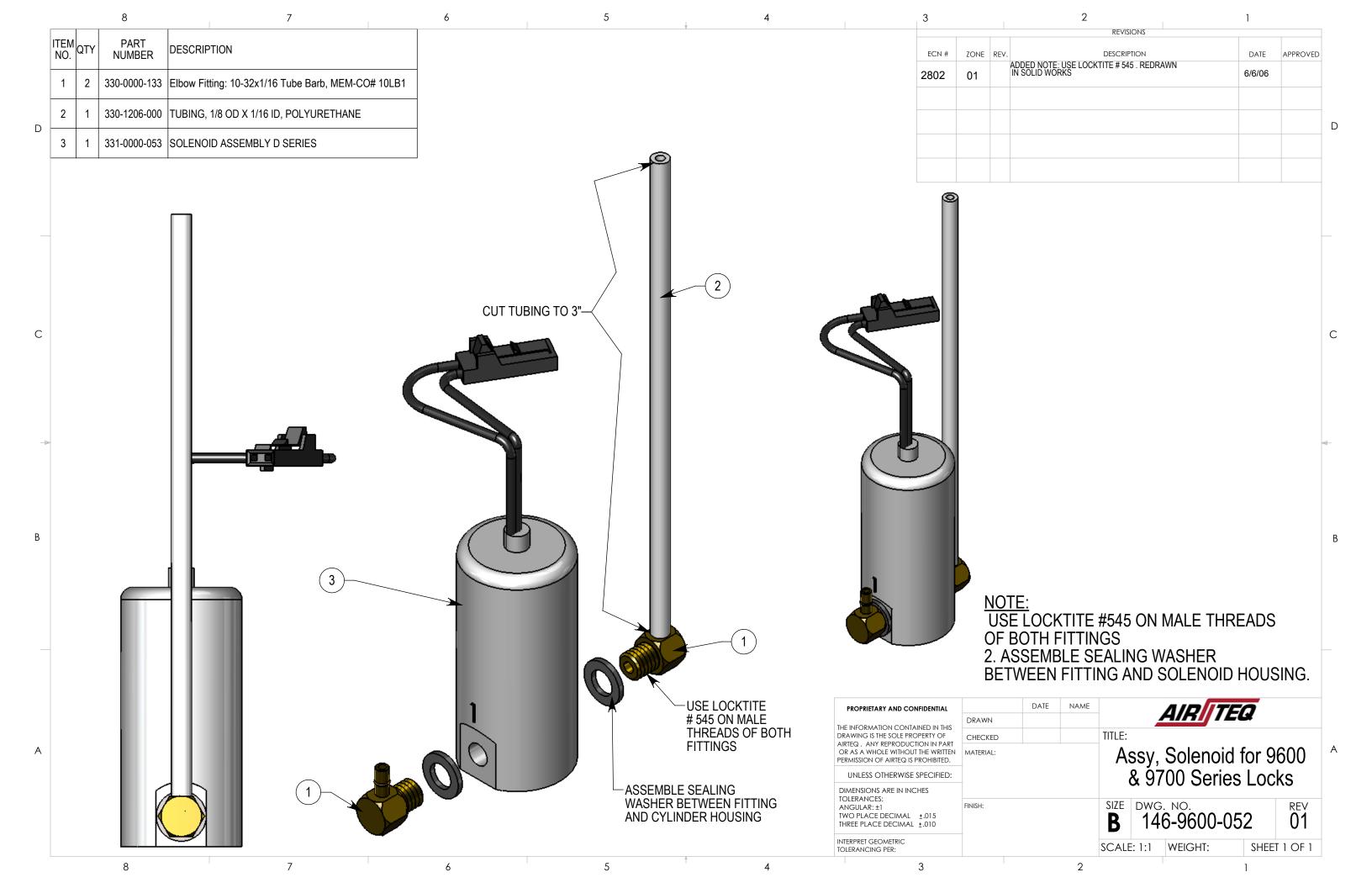


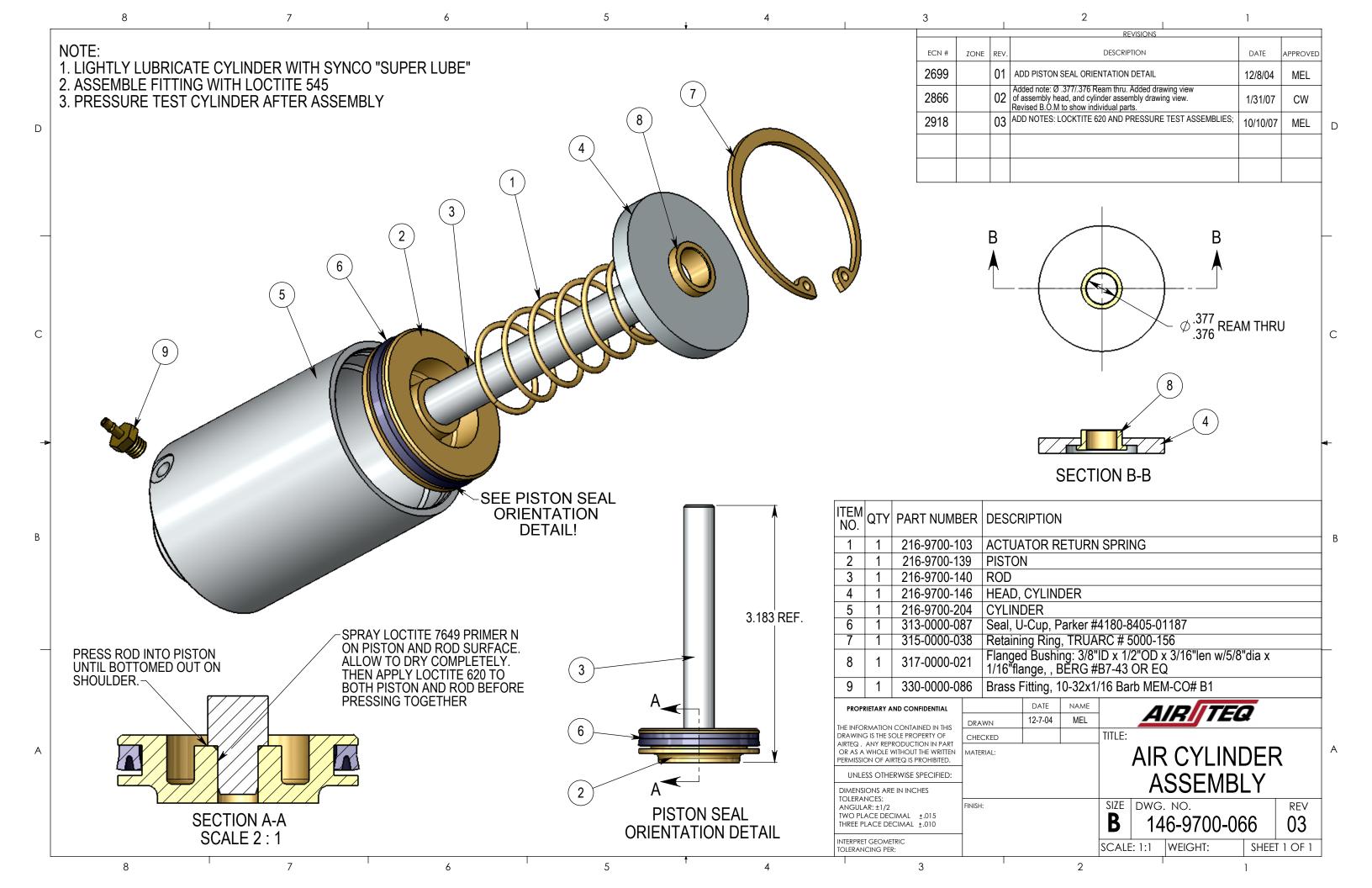
### **AIRTEQ**

www.Airteq.com

9700

NO. 1 2	1	NUMBER 146-9600-052	FEATURE	
				ASSY SOLENOID, 9600 9700
	1	146-9700-034		ASSY, MANUAL OVERRIDE DISC
3	1	146-9700-045		ASSY, GUIDE BAR
4	1	146-9700-040		ASSY, ROLLER BOLT
5	1	146-9700-066		ASSY, AIR CYLINDER
6	1	146-9700-107		ASSY, ACTUATOR CAM
		146-9724-021		Cover Plate Weldment, Airteg Mogul
7	2	146-9724-029		Cover Plate Weldment, ASSA Mogul
		146-9724-031		Cover Plate Weldment, For Cylinder Extension
	_	160-9700-017		WIRE HARNESS W/ KEY SWITCH
8	1	160-9700-018		WIRE HARNESS W/ NO KEY SWITCH
9	2	216-1000-028		Mogul Cylinder, SPANNER Lock NUT
10	2	216-9700-058		PIVOT PLATE
11	1	216-9700-115		LOCK BODY
12	1	216-9700-122		LATCHBOLT
13	1	216-9700-141		DEADBOLT SUPPORT BAR, REAR
14	1	216-9700-142		Deadbolt Support Bar, Front
15	1	216-9700-211		EXTENDED BOLT GUIDE
16	1	216-9700-271		TORSION SPRING, ACTUATOR CAM
17	1	216-9700-276		ANCHOR PIN, TORSION SPRING
18	1	216-9700-306		Spacer, Override Disc, Link Side
19	1	217-0000-035		Spring Anchor, 7/8in, 8-32x5/8 Thread, Black Oxide
20	2	310-0000-009		SCREW, 10-32 X .500 FLAT HEAD SOCKET
21	4	310-0000-003		SCREW SHCS 2-56x3/8 Black W/LOCKING PATCH
22	2	310-0632-007		SCREW, FH SOC., 6-32 X 5/16
23	1	310-0832-000		8-32 x 3/16 Socket Set Screw Cup PT, Black Oxide
24	4	310-0832-004		SCREW, SHCS 8-32 X 3/8
25	1	310-0832-004		SCREW, BH SOC, 8-32 X 1/4
26	2	310-0832-018		SCREW, SHCS, 8-32 X 1.00
27	1	310-0032-010		SCREW, FH, SOCKET, 10-32 X 5/8
28	12	310-0000-009		SCREW, FH, SOC., 10-32 X 3/0
29	1	313-0000-003		WASHER, .384IDx.564ODx.030 Steel, SEASTROM #5702-133-30
30	1	313-0000-077		WASHER, Nylon, 38 ID X .68 OD X .031
31	1	315-0000-013		RETAINING RING, ROTO CLIP SH-37STPA
32	1	315-0000-015		SPRING, (LATCHBOLT) CENTURY #S-64
33	1	315-0000-013		SPRING (DEADLATCH) CENTURY #10602
34	1	315-0000-010		SPRING (SLIDE RETURN)CENTURY #S-539, .25ODx2.0Len,.84rate, Mx defl.2.5
35	1	316-0000-039		ROLL PIN 3/32 X 1/2
36	4	316-0000-020		DOWEL PIN, 1/8 X 3/8 LG, H&G
37	2	316-0000-031		PIN, DOWEL, 3/16 X 1 LG, H&G
38	1	317-0000-033		3/8"ID, 1/2"OD, 3/4" Length, BUSHING, BRONZE
39	1	319-0000-018		CLIP, TENSION, RICHCO #TC-30-1
40	1	319-0000-058		GROMMET, MINOR RUBBER #Z-1128
41	1	319-0000-077		HOLE PLUG, 5 DIA
-	0.25	340-0000-003		3" SPLIT CONVOLUTED TUBING, .343, BLK
44	1	319-0000-203	KLHB	SPACER, 5/16"ODx.192"IDx.25"Length Brass (Replaces 216-9700-306)
	1	313-0000-000		01 710-11, 0/10 0DX.102 IDX.20 Letigiti Diass (Nepiaces 2 10-3700-300)
45	1	160-9700-012	Inmate Keying	Assy, Inmate Keying Switch, Right Hand
46	1	160-9700-013	Inmate Keying	Assy, Inmate Keying Switch, Left Hand
47	1	146-9700-115 146-9700-116	ELHB	Link Weldment, 9700 Mogul, ELHB Capable ELHB Link Weldment - (ELHB requires all RLB related components (216-9700-303 replaces 216-9700-301)
48	1	150-9700-000	RLB	RLB PIVOT WELDMENT
		216-9700-301	RLB	RLB Pawl
49	1	216-9700-303	ELHB	ELHB Pawl
50	2	310-1032-018	RLB	SCREW, FH, SOCKET, 10-32 X 1 1/4
51	1	315-0000-061	RLB	SPRING CENTURY # 0-56 OR EQUIV.
52	1	316-0000-087	RLB	DOWEL PIN, 3/32 X 3/8 LG, H&G





#### 9700 SERIES LOCK

#### **RECOMMENDED SPARE PARTS LIST**

PART NUMBER	DESCRIPTION

331-0000-053 SOLENOID

OR 146-9600-052 SOLENOID ASSY

315-0000-015 SPRING, LATCHBOLT

315-0000-016 SPRING, DEADLATCH

315-0000-018 **SPRING, LINK RETURN** 

315-0000-036 SPRING, CAM RETURN

160-9400-012\* ASSY, KEY SWITCH

160-9700-006 ASSY, LOCK STATUS SWITCH, 2-Wire

OR 160-9700-007 Lock Status Switch, 3-Wire

330-0000-414 COUPLING HALF

330-0000-415 COUPLING HALF (FIELD SIDE)

315-0000-024\* SPRING, HOLD BACK

316-0000-087\* DOWEL PIN, 3/32 X 3/8 (RLB / ELHB)

315-0000-061\* SPRING, RLB / ELHB

400-9700-000 REPAIR KIT, 9700 AIR CYLINDER

340-0000-209 TERMINAL, MALE

\* NOT USED ON ALL MODELS



# LOCK MAINTENANCE INFORMATION

#### PNEUMATIC LOCKING DEVICES

#### A. Lubrication and cleaning

 Each Airlock is well lubricated at the time of assembly. However, all lubricants deteriorate eventually and need replacing on a regularly scheduled basis in order to prevent equipment failure. Airteq Systems recommends cleaning and lubricating each type of lock according to the following instructions approximately every (2) years. (Yearly for locks in high use areas).

#### 9400 SERIES LOCK:

Remove the side cover plate and lubricate the angled ramp surface on the sideplate that the deadlatch bolt dowel pin rides against. Lubricate the stop side of the deadlatch bolt (back side). When replacing the side cover, be sure the lever of the lock status switch is not trapped under the retainer plate or actuator. The lower lock mechanism should be checked and cleaned once a year (or more often if special conditions exist) for accumulated dirt and other debris that would interfere with proper operation. Lubrication of upper lock mechanism is not necessary nor recommended.

#### 9600 SERIES LOCK:

Remove the slide cover. Remove the housing cover. Remove the slide assembly. Clean and re-lubricate the slide with a thin coating of recommended lubricant on the following surfaces:

- a.) The 45° angled surface that contacts the deadbolt.
- b.) The flat "shelf" that lifts the back of the latchbolt.
- c.) The two small areas where the slide contacts the back wall of the slide cavity.
- d.) The edges of the two "rails" which contact the side of the right side cover.
- e.) The front and rear faces of the slide which contact the slide cavity walls.

When replacing the slide assembly, hold the latchbolt retracted into the lock housing while inserting the slide assembly near the top of the cavity so that it drops in above the lock status switch lever arm and not on top of it. Replace the housing cover and slide cover and fasten securely.

Lubrication of the upper lock mechanism is not necessary nor recommended.

#### PNEUMATIC LOCKING DEVICES

#### 9700 SERIES LOCK:

Remove one side cover plate and lubricate the deadbolt shaft and cam surface. Lubricate the latchbolt shaft and the stop sides of both bolts.

#### 9700P SERIES LOCK: (PARACENTRIC KEYING)

Remove one side cover plate and lubricate the deadbolt shaft and cam surface. Lubricate the latchbolt shaft and the stop sides of both bolts.

#### **KEYS AND LEVER TUMBLERS:**

- Key wear can cause improper operation of the lock and may damage the lock's lever tumblers. Keys in constant use should be periodically compared to a similar new key. When grooves due to wear are noted in the steps on the key bit, the old key should be replaced.
- 2) When rekeying is performed, new tumbler stacks should be purchased as a set including a new key. This enables Airteq to maintain complete keying records.

#### **WARNING:**

- 1) Never use WD40 or similar silicone based lubricants.
- 2) Never use graphite powder as a lubricant.
- 3) Never lubricate the lever tumblers.

#### ALL LOCKS:

#### 2. RECOMMENDED LUBRICANTS:

Multipurpose teflon based grease: Lubricate internal moving parts with SYNCO SUPER LUBE WITH TEFLON or equivalent.

Stick lubricant: Lubricate the beveled surfaces of all latch bolts and strikes with stick lubricant as required. Use PANEF WHITE STICK LUBRICANT WITH SILICONE or equivalent.

#### B. Electrical:

 The electrical system of this lock is operated on regulated 24VDC current. Any other voltage or current condition is not acceptable and will result in failure of the solenoid.

# TROUBLESHOOTING 9400, 9500 AND 9700 LOCKS

If the lock is not working properly, the following chart may be used as a guide to locate and correct the problem.

Because the lock receives its signal from the electronic control system, a thorough check of the control system should be conducted. Using a volt/ohm meter known to be accurate, verify the correct power signal input at the appropriate connector pin. If the proper electronic signal is not evident, begin checking "upstream "from the connector. If the electronic signal input is correct, the problem is within the locking device, use the following chart to locate and correct the problem.

The recommended air pressure at the lock is 80 P.S.I.. If the correct air pressure is not evident, begin checking "upstream" from the lock. If the air pressure is correct, the problem is within the locking device, use the following chart to locate and correct the problem.

PROBLEM	CHECK
LATCHBOLT WILL NOT RETRACT	*AIR SUPPLY TO LOCK *MECHANICAL INTERFERENCE *POWER INPUT TO UNLOCK SOLENOID (POWER SHOULD BE PRESENT DURING LOCK OPEN CYCLE) *BROKEN OR LOOSE WIRING *FAULTY OR CONTAMINATED SOLENOID VALVE
LATCHBOLT WILL NOT EXTEND	*MECHANICAL INTERFERENCE *BROKEN OR LOOSE WIRING (SHORT TO GROUND) *POWER INPUT TO UNLOCK SOLENOID (POWER SHOULD NOT BE PRESENT DURING LOCK SECURE CYCLE) *FAULTY KEYSWITCH
LOCK RETRACTS/EXTENDS SLOWLY	*AIR PRESSURE TO LOCK *MECHANICAL INTERFERENCE *FAULTY OR CONTAMINATED SOLE- NOID VALVE
MANUAL OVERRIDE NOT WORKING PROPERLY	*MECHANICAL INTERFERENCE *PROPER ENGAGEMENT OF KEY CYLINDER CAM IN LOCK
DOOR POSITION SIGNAL NOT GIVEN	*BROKEN OR LOOSE WIRING (SEE WIRING DIAGRAM)
LATCHBOLT POSITION SIGNAL NOT GIVEN	*BROKEN OR LOOSE WIRING (SEE WIRING DIAGRAM)