



maintenance management order

SUBJECT: New Centralized Delivery PSIN O910A &
O910B Locks

DATE: December 22, 2005

NO: MMO-086-05

TO: All Maintenance Capable Offices

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This Maintenance Management Order (MMO) provides information on new PSIN O910A (clockwise rotation) and O910B (counter-clockwise rotation) locks used in centralized delivery and collection equipment.

A new generation of centralized delivery and collection equipment is either now available to the field or in process for near term release. Critical to the overall security success of both the new and older generations of delivery equipment are the newly redesigned O910A & O910B locks.

These new, security enhanced locks are INCLUDED with new Cluster Box Units (CBU), Outdoor Parcel Lockers (OPL), and certain Indoor Parcel Lockers (IPL).

When ordering O910A and O910B spares from Topeka Material Distribution Center (TMDC), only new type locks will be shipped. These locks have USPS-L1172C impressed on the front. See Figure 4. They will mount in older generation CBU, Neighborhood Delivery Collection Box Units (NDCBU), OPL and IPL equipment only by using a special adhesive washer shown in Figure 6. The original (older generation) O910 lock will not fit in new equipment.

The attachment includes detailed information on the new O910A and O910B locks, pictures of both original and new type locks, with differences clearly shown. In addition, instructions for installation in most older generation equipment are included.

Direct any questions or comments concerning this bulletin to the HelpDesk, Maintenance Technical Support Center, P.O. Box 1600, Norman OK 73070-1600; telephone FTS 2000 (405) 573-2123 or toll free (800) 366-4123.

Earl J. Jones
Manager
Maintenance Technical Support Center
Maintenance Policies and Programs

Attachment: PSIN 0910 Detailed Information and Installation Instructions

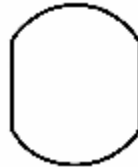
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ATTACHMENT

PSIN 0910 DETAILED INFORMATION AND INSTALLATION INSTRUCTIONS

The original O910A and O910B locks were designed to fit in "Double D" type mounting holes. See Figure 1 for drawings of the original Double D lock mount and new 1172C lock mount.



Original "DD" Lock Mount



New 1172C Lock Mount

Figure 1

Figure 2 shows the back side of the original lock. The arrows indicate the shape that fits in the "DD" mounting hole.



Figure 2

Figure 3 shows the front of one supplier's version of the original lock.



Figure 3

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Figure 4 shows the front of the NEW O910A and O910B lock (also known as 1172C).



Figure 4

Figure 5 shows the back side of the 1172C. Note the difference (indicated by arrow) between this new lock and the original (Figure 2).

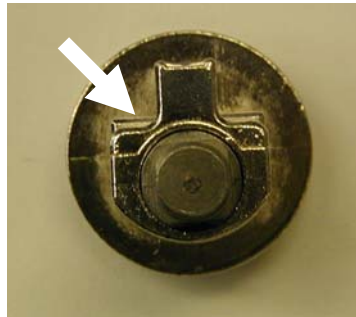


Figure 5

When mounting the 1172C in older generation equipment, a special adhesive washer (Figure 6) must be used.



Figure 6

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Also spacer washer(s) as shown in Figure 7 may be required to achieve proper fit.



Figure 7

Part numbers for Lock Kits:

- 5340-02-000-8190 O910A (clockwise rotation)
- 5340-02-000-8005 O910B (counter-clockwise rotation)

Each kit includes the following:

- Locks (10)
- Spring clip (10)
- 5/16-24 nut (10)
- Adhesive-backed washer (10)

Part numbers for spare washers:

- 5310-08-000-3528 Adhesive Washers - 10 in package
- 5310-08-000-3529 Spacer Washers - 10 in package

The tools listed in Table 1 are recommended for installation and removal of locks:

Table 1

eBuy Item #	Item
Locate	Clean, dry paper or cloth towel
Locate	Screwdrivers (flat blade)
3ZE91	Ratchet, 3/8 in. Drive
3ZB28	19 in. Ext., 3/8DR, for NDCBU's
3ZB66	½ in. Socket 3/8DR
1UG30	½ in. Nutdriver for NDCBU's
4YT04	Standard Pliers
4RU49	Tongue-and-Groove Pliers
4JA64	Vise Grips Pliers

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PSIN O910 LOCK INSTALLATION PROCEDURES**NOTE**

Due to the variety of centralized delivery equipment, the steps below are not all inclusive. Their primary purpose is to introduce the importance of proper installation of the new type of lock with the special adhesive washer. The use of the adhesive washer is mandatory due to higher security requirements.

1. Using an Arrow Lock key, open the master door(s) of the unit for access to the lock to be replaced.
2. Note the orientation of lock, cam, and spring clip. Remove the lock's hardware and lock. (For most lock removals, the NDCBU requires the use of the nutdriver or ratchet with drive extender to reach the nut on the lock.) (If replacing a lock on a plastic American Locker CBU, note the orientation of the spring clip before removing. This clip will be used for securing the new lock).
3. Clean the mounting surface with a clean dry towel (for proper adhesive performance surface must be absolutely clean) as shown in Figure 8.

NOTE

The adhesive washer is to be installed on the INSIDE of all METAL boxes and on the OUTSIDE of all the PLASTIC boxes. Figure 8 shows preparation for a plastic American Locker CBU.



Figure 8

CAUTION

Internal cylinder damage can occur if lock is installed with key inserted.

4. Ensure key is not in lock. Peel off the liner from the washer exposing the adhesive as shown in Figure 9.



Figure 9

5. Properly align the lock, considering cam placement, and insert with adhesive washer in place, through the Double D mounting hole as shown in Figure 10.



Figure 10

6. Ensure the spring clip is oriented the same as before removal and slide the clip into place through the grooves closest to the backside of the door. Use pliers or vise grip to slide the clip completely onto the lock (See Figures 11 and 12). If working with an American Locker CBU, reuse the original clip.



Figure 11



Figure 12

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Spacer washers may be required for the spring clip to provide proper snug fit of lock. Figures 13 and 14 show the spacer washer and example of their use.

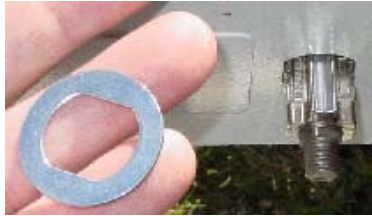


Figure 13



Figure 14

7. Place the old cam on the lock and hand tighten the new nut. Do not attempt to use the old nut due to difference in thread. See Figure 15.



Figure 15

8. It is important that the cam be used as a stop (not the lock cylinder) while tightening the nut. Excessive torque applied to the lock will damage and/or destroy the internal parts of the cylinder mechanism. Use pliers or vise grips to “secure” the cam while tightening. Figures 16 and 17 show examples of ensuring no torque is applied to the cylinder.



Figure 16



Figure 17

9. Tighten the nut until the cam is completely seated.
10. Insert the key and check for proper operation of the new lock before closing the door. Close door and repeat operational check.

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