



SERVICE BULLETIN No.1110A

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COACH MODEL	: T2145, S2145 and C2045
BULLETIN TYPE	: Service Information
MANUAL & SECTION	: Maintenance Manual: Chapter 11 – Body and accessories Spare Parts Manual: Section 732709 – Doors: accessories
PARTS BOOK REVISION	: No
DATE	: May 6th, 2003
SUBJECT	: Door handle replacement – re-use of old tumbler, lock barrel and key
TERMS & CONDITIONS	: No claims will be accepted with reference to this Bulletin.

THIS SERVICE BULLETIN SUPPLEMENTS VAN HOOL SERVICE BULLETIN 1110

APPLICATION:

The service information subject of this Bulletin is applicable to T2100, S2100 and C2045 units equipped with non-key-alike (pre-JOK) door lock assemblies.

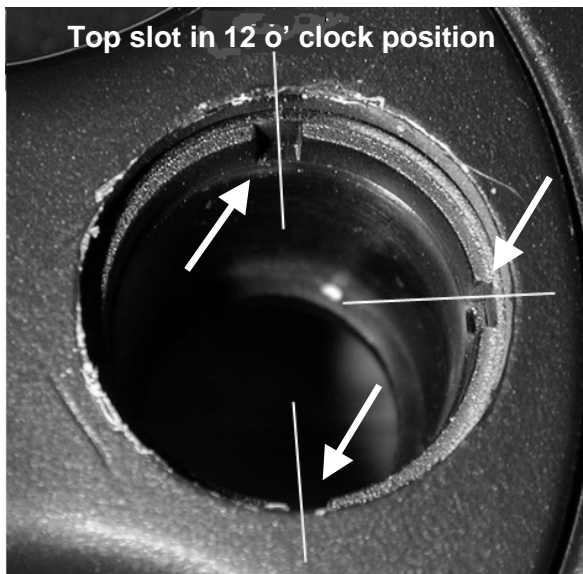
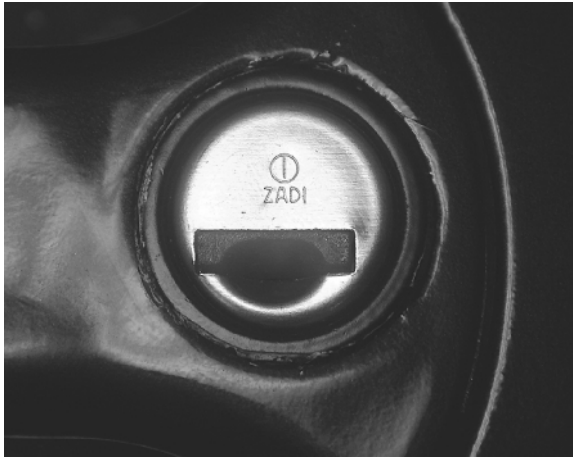
DESCRIPTION:

- This Service Bulletin offers a solution for the replacement of early type door handles, which are no longer available.
- The early type non-key-alike door handles are not interchangeable with the later Just-One-Key (JOK) type. As a result, when replacing an early handle by a new, the lock barrel holding the tumbler, the tumbler itself, and the key also have to be changed.
- Owners of coaches featuring non-key-alike door handles can now purchase a new type door handle and still retain the old lock barrel, tumbler and key, provided a small modification is made to the new handle, as shown in the procedure below.

Service personnel: please read, initial and circulate.

Service Manager	Parts Manager	Warranty Administrator	Workshop Foreman	Service Technician

Non-key-alike



Just-One-Key

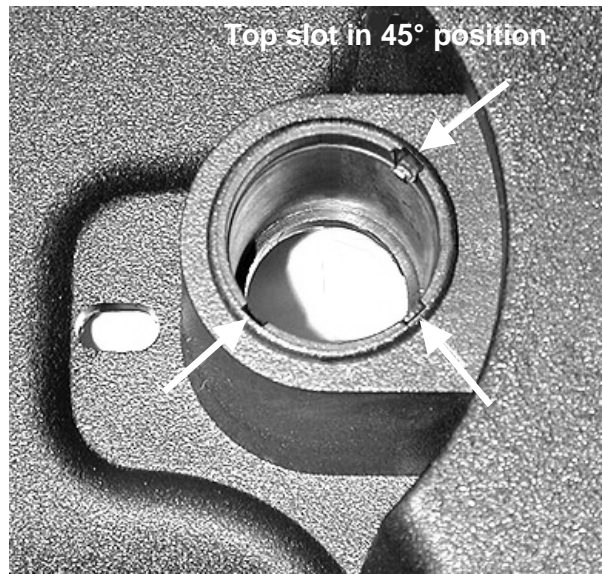


Figure 1: Old vs new lock comparison

PARTS AND PRODUCTS:

- For old vs new lock comparison, see Figure 1, opposite page.
- For relevant part numbers, refer to the updated pages from the T2100 and S2045 Spare Parts Manuals, which have been attached to Van Hool Service Bulletin #1110.

PROCEDURE:

1. General:

- For your information only: the time required to modify a new type door handle to accept an early type lock barrel is approximately 0.75 hour.
- This job should be executed by a technician experienced in body and trim repair.
- For more information refer to Van Hool Service Bulletin 1110.

2. Special tools, equipment or services:

- No special tools, equipment or services are required.

3. Preparations:

- Park the coach on a level surface with the front wheels straight. Apply the parking brake and shut down the engine. Switch off all systems and turn off the battery master switch.
- Put a "DO NOT OPERATE" tag on the instrument panel.
- Read the entire procedure before beginning to work and make sure to observe safe shop practices at all times.

4. To modify the lock barrel bore of a later type door handle to accept an early type lock barrel

- 1) Remove the old door handle assembly from the coach, and put it face down on a soft and clean working surface.
- 2) Remove the lock barrel and tumbler from the handle as explained in Van Hool Service Bulletin 1110.

***NOTE:** On some types of door handles the lock barrel is secured by a snap ring. This snap ring must be removed first before the insert can be withdrawn from the assembly (see Figure 2 - Removal of a luggage door handle lock barrel).*

- 3) Put the old and the new door handle on the working surface next to one another, face up. Compare the location of the grooves in the lock barrel bores of both handles. These grooves serve to accept the cams on the outside of the lock barrel and provide for positive orientation.
- 4) With a scribe, carefully transfer the position of the slots in the bore of the old handle onto the new (see arrows in Figures 1, 3, 4 and 5).
- 5) With the scribe marks as a reference and using a small file, make three 5/64 by 7/32 inch (2 by 5 mm) new slots in the ridge of the bore.

Alternatively, with a 5/64 inch (2 mm) drill bit, carefully drill 3 holes, 7/32 inch (5.5 mm) deep (see Figure 3, 4 and 5).

- 6) After removing any swarf, the early-type lock barrel can now be installed into the new door handle.
- 7) Reassemble and reinstall the door new handle in reverse order to removal.

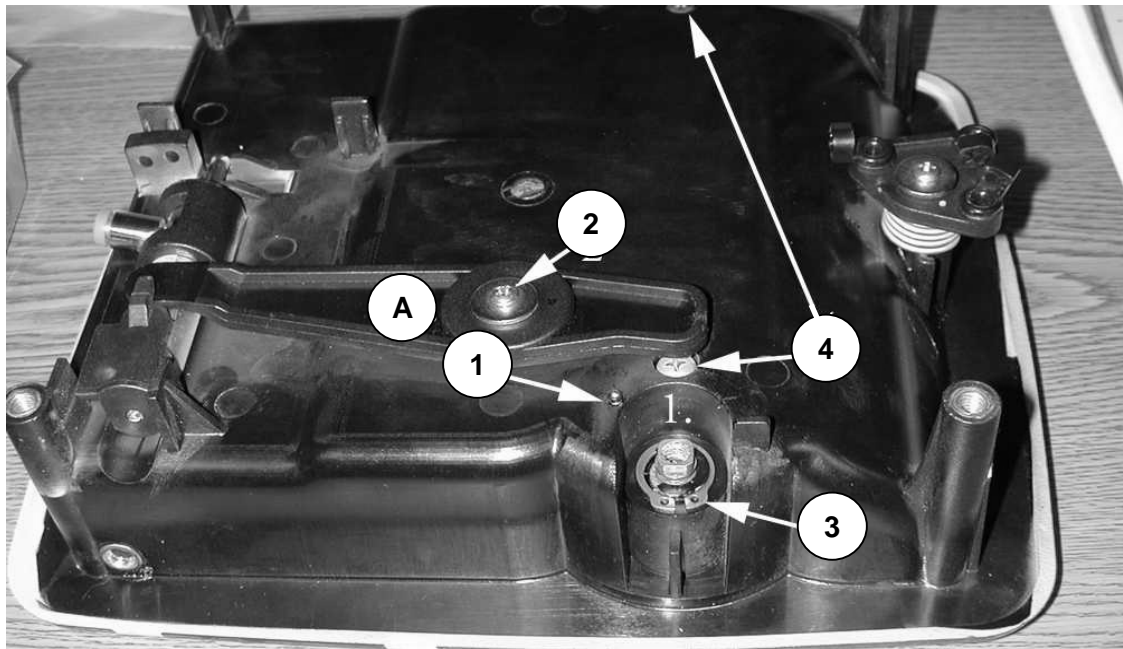
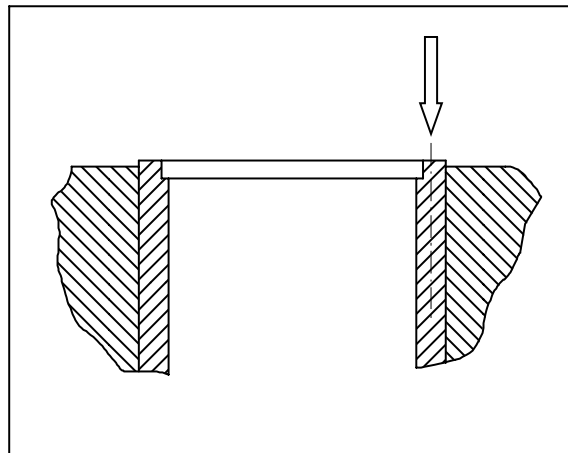
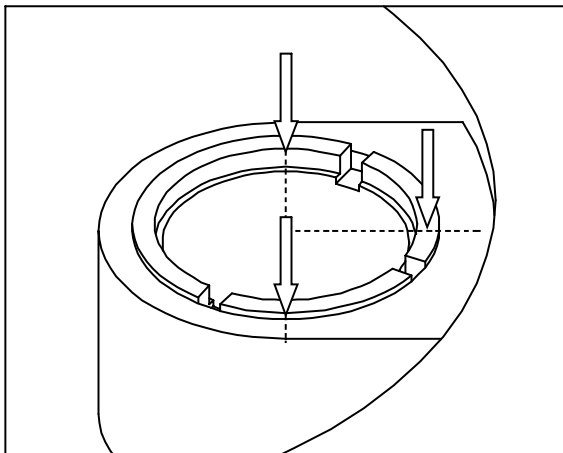


Figure 2: Luggage door handle – lock barrel removal

1. Remove the actuating cam held by one philips head screw. Save the small steel ball and spring, which is located under the cam, as shown by arrow #1.
2. Remove lever A, which is held in place by one screw.
3. Remove the snap ring holding the key lock barrel, and remove the barrel from the housing
4. Remove the two screws that hold the handle bar to the housing, and remove the handle bar.



Figures 3 and 4: Transfer old barrel location grooves onto ridge of new handle bore

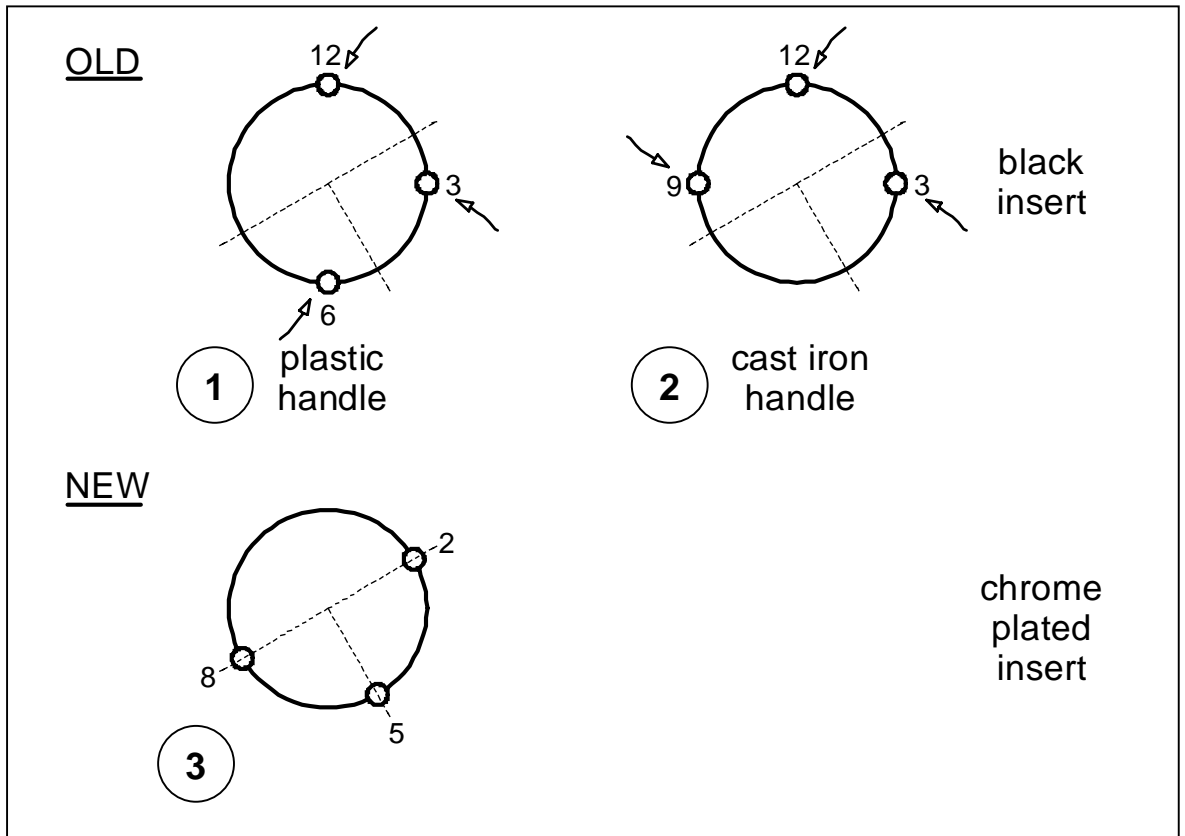


Figure 5: Slot location for lock barrel cams in old (1 and 2) and new style (3) door handles. Transfer the slots in the old door handle (see arrows) onto new to retain the use of the old lock barrel, tumbler and key.

Procedure complete.

DISCLAIMER:

The procedures contained herein are not exclusive. Van Hool cannot possibly know, evaluate, or advise the transportation industry of all conceivable ways in which a procedure may be undertaken or of the possible consequences of each such procedure. Other procedures may be as good, or better, depending upon the particular circumstances involved.

Each carrier who uses the procedures herein must first satisfy itself thoroughly that neither the safety of its employees or agents, nor the safety or usefulness of any products, will be jeopardized by any procedure selected.

SERVICE INFORMATION:

Service Bulletins are issued to supplement or supersede information in the Van Hool manuals. Note Service Bulletin number, date and subject on the register at the end of the relevant chapter(s). File Service Bulletin separately for future reference.

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