

ASSEMBLY OF EL560

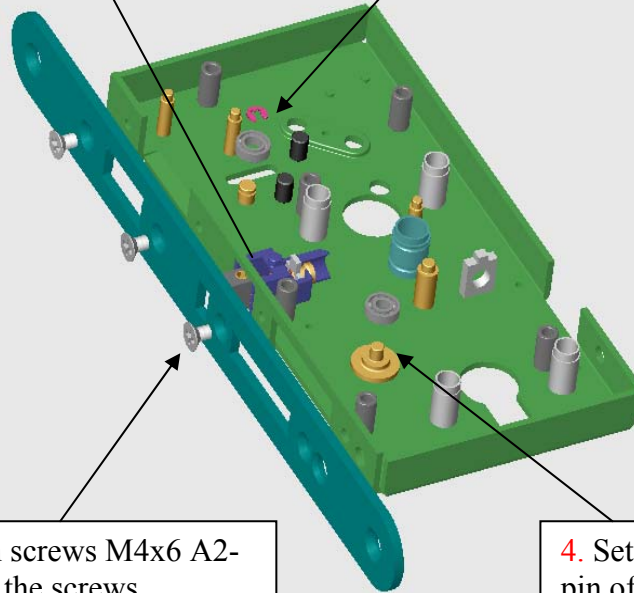
CUSTOMER INSTRUCTIONS

8.10.2004



1. Set trigger bolt package into its place.
807198 55 mm
809049 60 mm
809050 65 mm

5. Set ball wheel 5121009 into its place.
Set ring 4861046 to keep the ball wheel in its place.



2. Attach forend 807127 with screws M4x6 A2-70 using LOCTITE 243 with the screws.
Check that the forend is in straight line with the lock case.

4. Set ball wheel 5121013 into the pin of dead bolt. Hit the pin flat, lightly with a hammer.



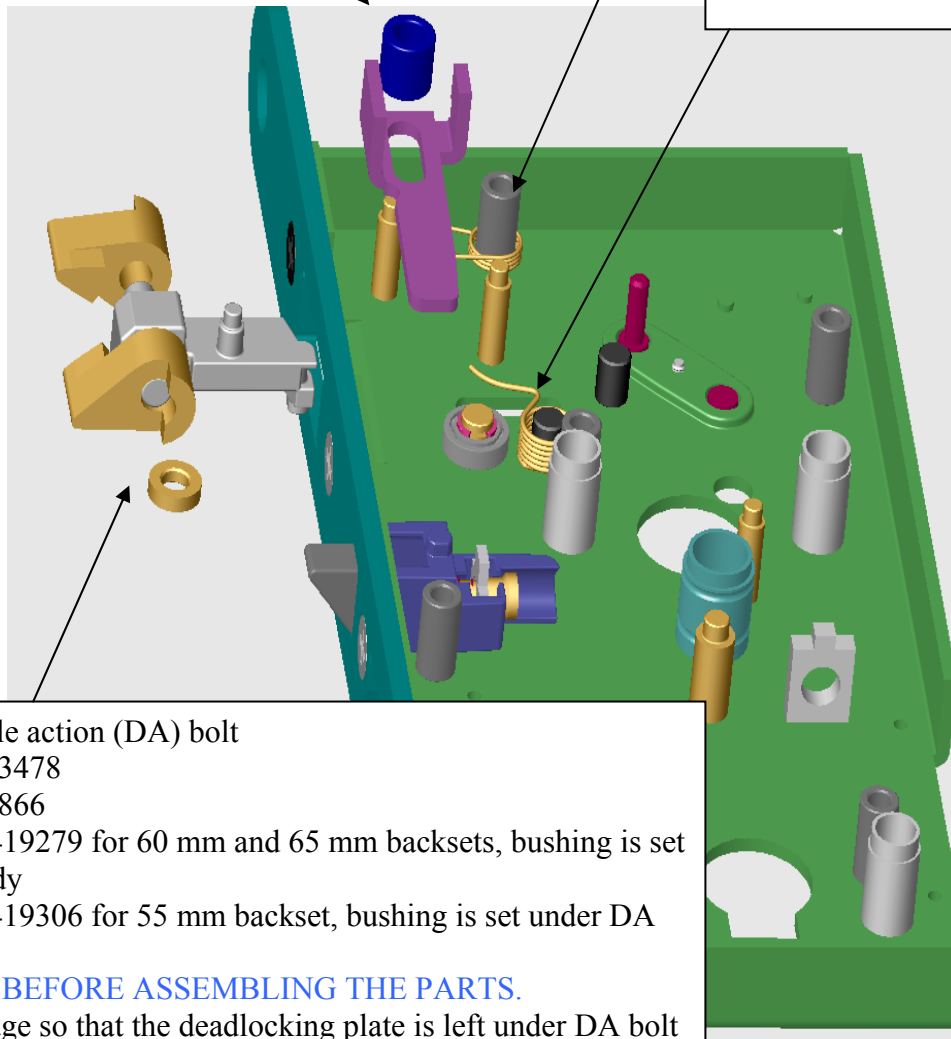
3. Attach the changer.
Normal delivery is fail locked: Markings next to each other.
Fail unlocked: Markings point in different directions.

GREASE BALL WHEELS AND LOCK CASE IN THE PLACES OF BOLTS AND OTHER MOVING PARTS. NO GREASE INTO THE AREA OF HANDLE FOLLOWER CLASPS!

6. Set deadlocking plate 807122 in its place and nail bearing 5121005 on it.
NOTE! Text upwards

9. Set deadlocking plates spring 807339 in its place.
MAKE SURE THAT OTHER SPRING END DOES NOT ATTACH TO NAIL BEARING.

8. Set DA bolt spring 807338 in its place.



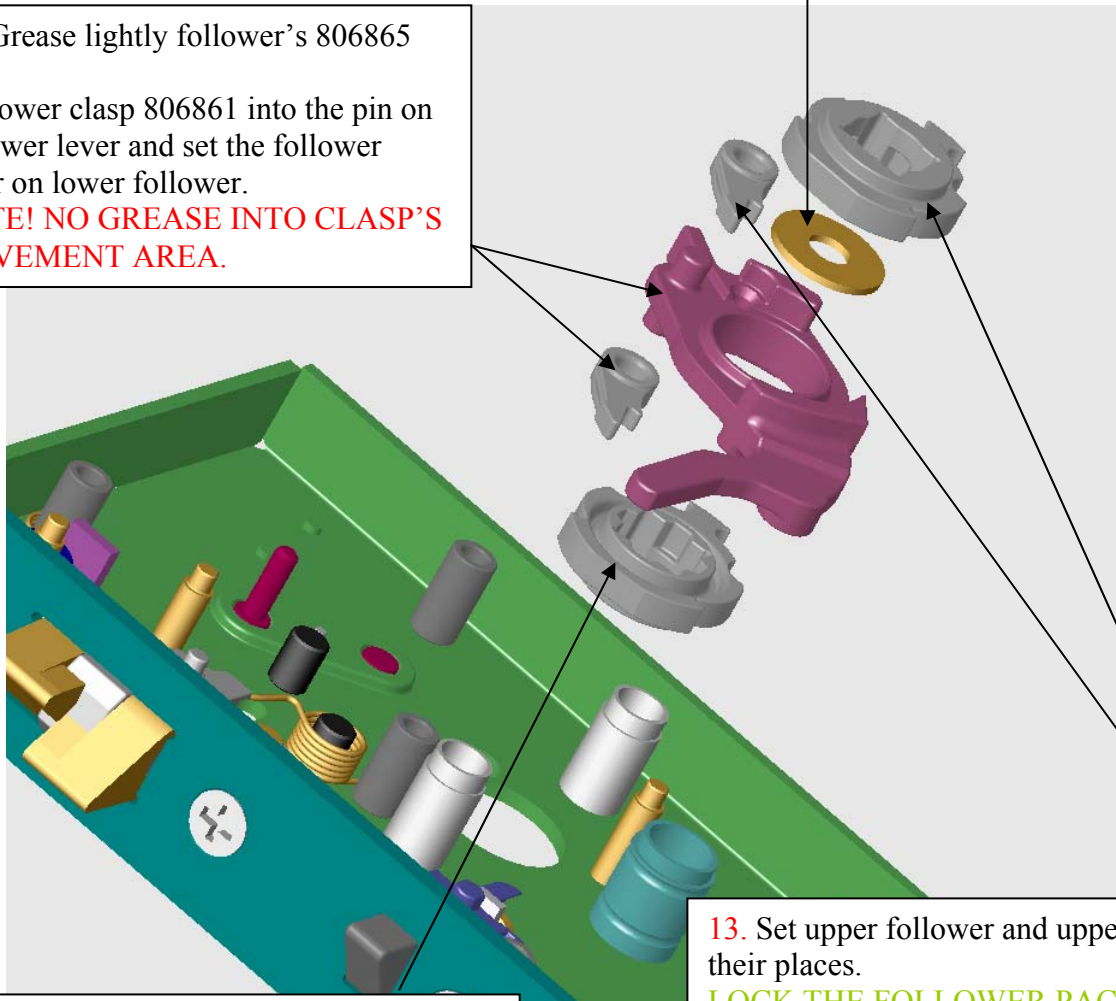
7. Assemble double action (DA) bolt
DA bolt pieces 443478
DA bolt body 806866
DA bolt bushing 419279 for 60 mm and 65 mm backsets, bushing is set under DA bolt body
DA bolt bushing 419306 for 55 mm backset, bushing is set under DA bolt body
NOTE! GREASE BEFORE ASSEMBLING THE PARTS.
Set DA bolt package so that the deadlocking plate is left under DA bolt body.

NOTE! CHECK THAT DEADLOCKING PLATE MOVES FREELY INTO DEADLOCKING LOCATION → THERE IS A SMALL GAP BETWEEN DA BOLT BUSHING AND DEADLOCKING PLATE IN DEADLOCKING LOCATION.

ASSEMBLE FOLLOWER LEVER WITH FOLLOWERS AND ENSURE FREE MOVEMENT OF THE FOLLOWERS.

12. Set follower plate in its place (not in EL561 lock)

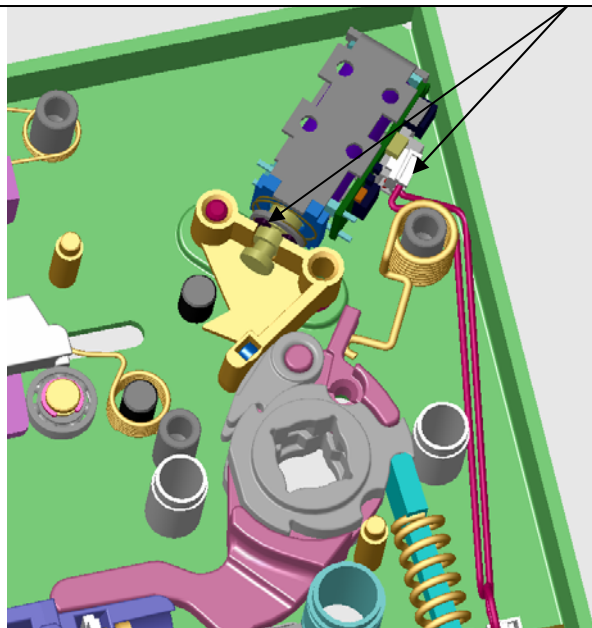
11. Grease lightly follower's 806865 slot.
Set lower clasp 806861 into the pin on follower lever and set the follower lever on lower follower.
NOTE! NO GREASE INTO CLASP'S MOVEMENT AREA.



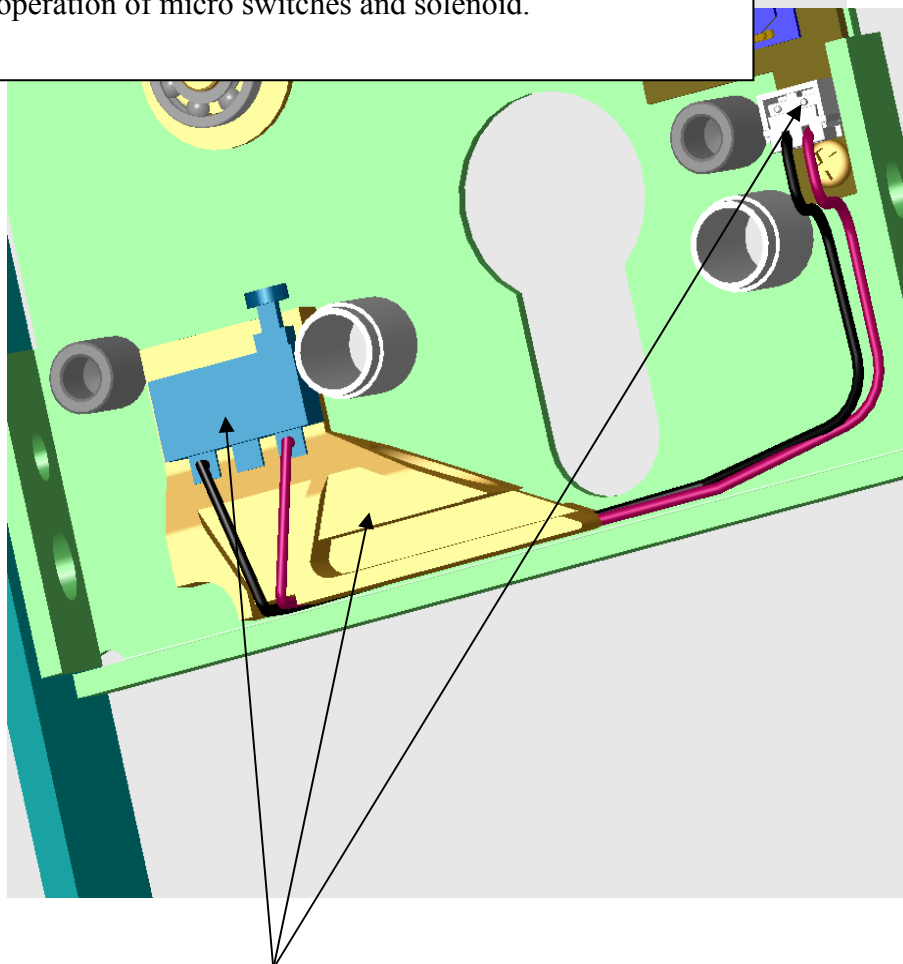
10. Set lower follower 806860 in its place..
NOTE! GREASE LIGHTLY LOCK CASE UNDER THE FOLLOWER.

13. Set upper follower and upper clasp in their places.
LOCK THE FOLLOWER PACKAGE TO THE JIG.
NOTE! GREASE LIGHTLY THE PARTS OF THE UPPER FOLLOWER WHICH WOULD TOUCH LOCK CASE COVER.

18. Connect solenoid 806070 to the circuit board and add solenoid spring. Set solenoid in its place.

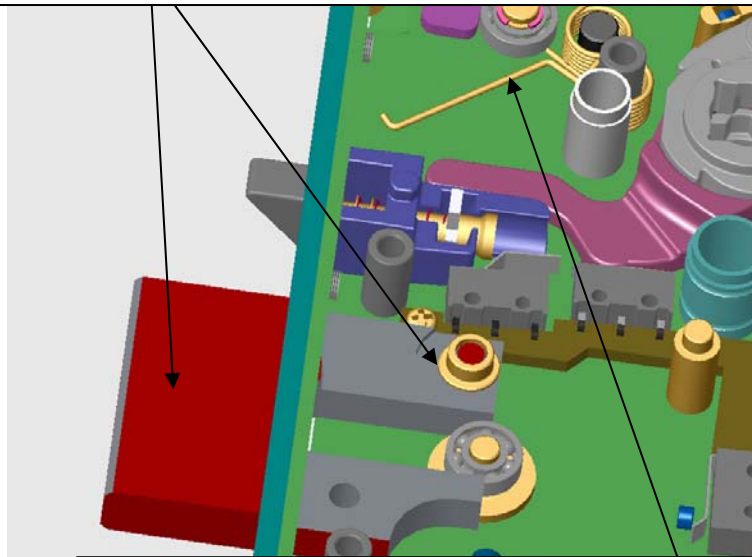


19. Connect the lock to tester.
Test the operation of micro switches and solenoid.

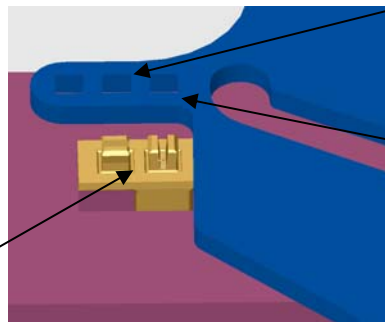


20. Set cylinder micro switch 952188 into micro switch holder 806852 and connect the cylinder micro switch to circuit board. Set the cylinder micro switch into its place.

21. Set dead bolt pin 419307 into dead bolt's 806996 hole (pin's shoulder on case side). Set the dead bolt in its place.
Set dead bolt bushing 419295 into the dead bolt pin.
NOTE! GREASE BALL WHEEL PIN AND DEAD BOLT PIN.

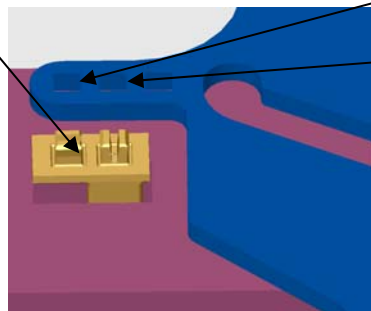


22. Set pull plate spring 807334 in its place.
Leave longer end of the spring loose.

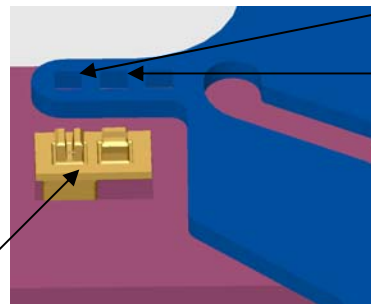


BACKSET 55 mm
Attach magnet holder to pull plate 807190 as shown.

Backsets 55 mm and 60 mm:
Put magnet holder 806853 as shown into the jig.

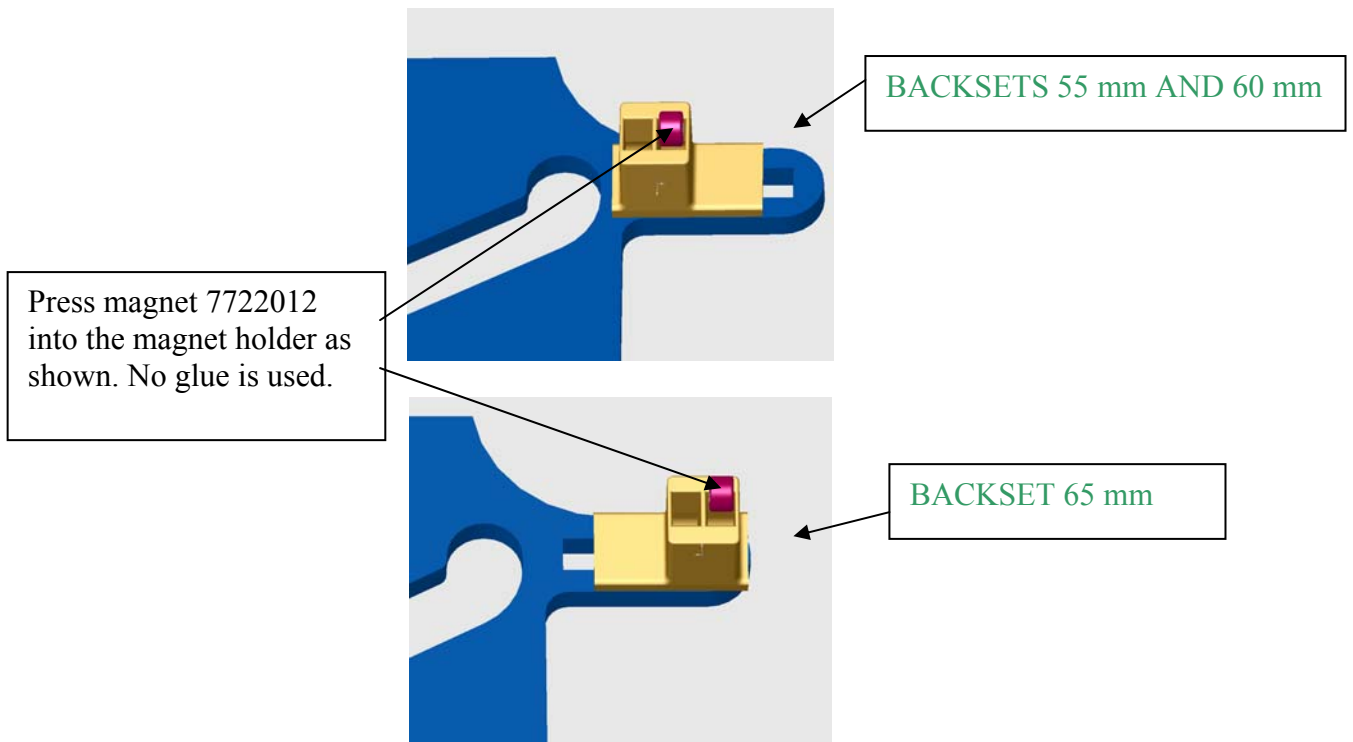


BACKSET 60 mm

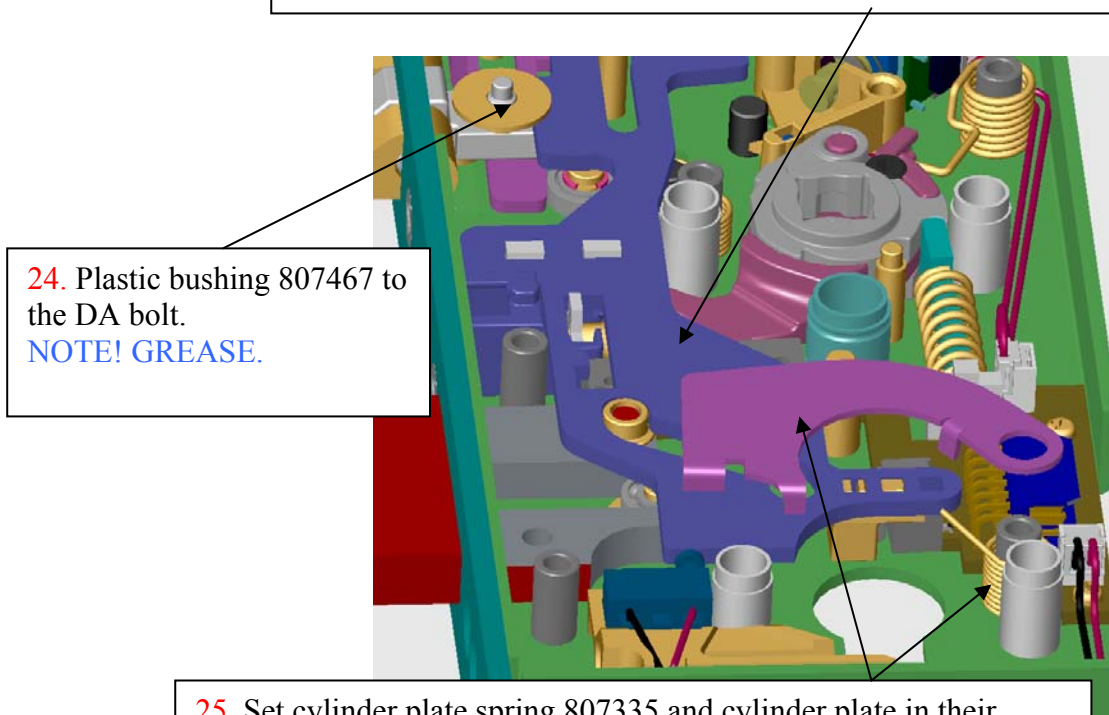


BACKSET 65 mm

Backset 65 mm:
Put magnet holder 806853 as shown into the jig.

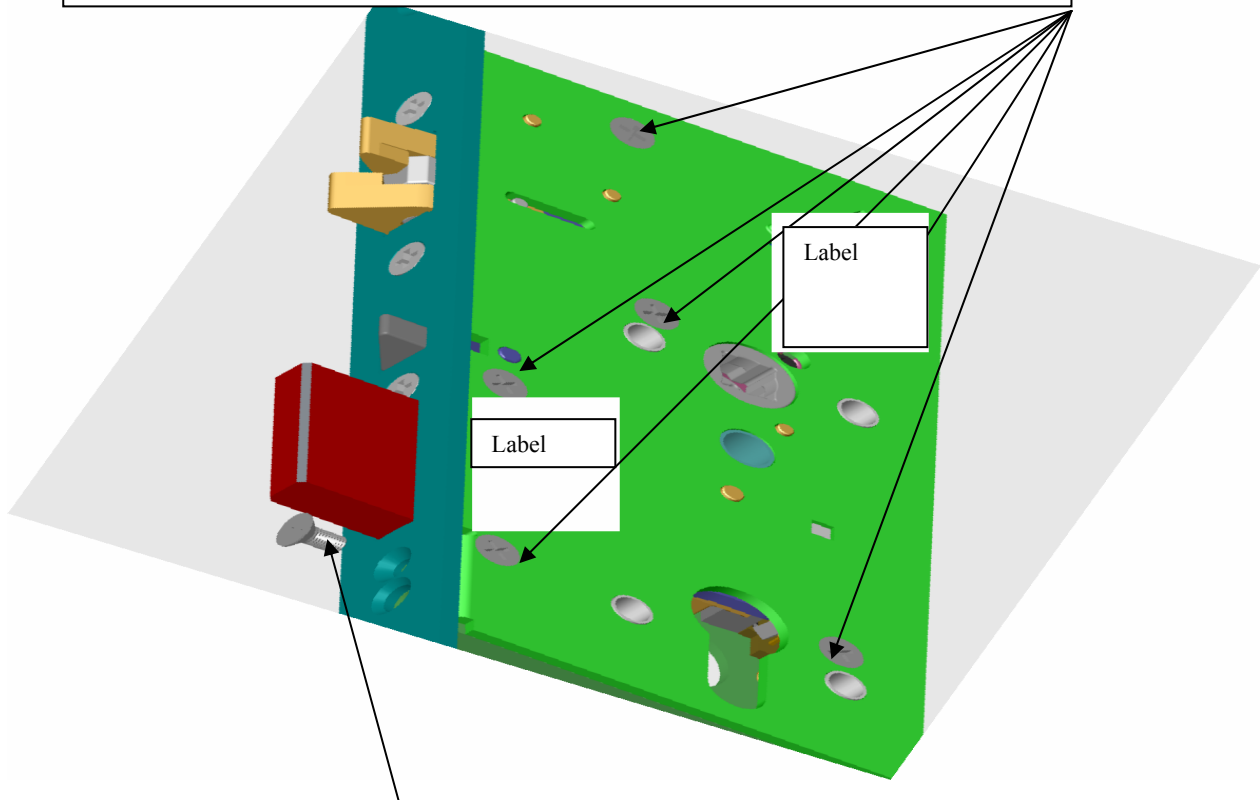


23. Set pull plate 807190 in its place so that the longer end of pull plate spring supports the pull plate.
NOTE! GREASE UNDER THE PULL PLATE.



GREASE THE SLIDING HOLES OF DEAD BOLT, TRIGGER BOLT, DA BOLT IN THE PULLING PLATE.
NOTE! NO GREASE INTO THE AREA OF CLASPS.

26. Set lock case cover in its place. Press above cylinder plate and release the cylinder plate's jig tool. Attach the lock case cover.



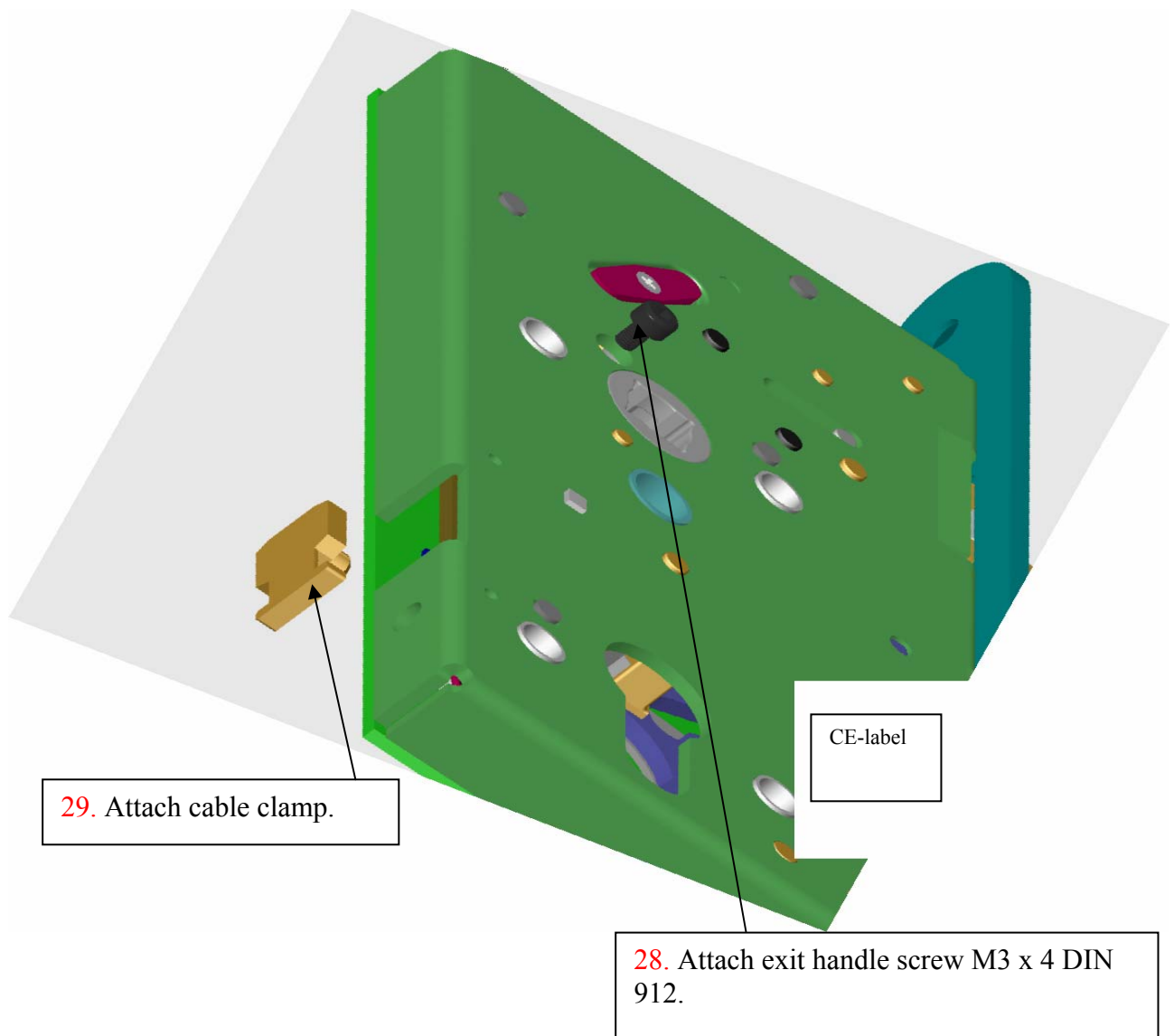
27. Attach forend screw M4 x 8 A2-70 DIN 965.

ELECTRICAL TESTING:

1. Testing voltage:
 - Supply voltage 30V DC
 - Check that the duration of current peak is about 60 – 70 ms, maximum current is about 280 mA and idle current is about 45 mA.
 - Every tenth lock is tested also with 10V DC: The duration of current peak is about 600 ms, maximum current is about 350 mA and idle current is about 120 mA.
2. Testing of handle, bolt, trigger bolt and cylinder micro switches:
 - Cylinder and handle micro switches must change before bolt out indication disappears.
 - Bolt out –indication does not appear unless dead bolt is deadlocked.
 - Bolt in –indication appears when double action bolt is released.
 - Trigger bolt –indication appears when trigger bolt is about 6 mm outside (tested with jig tool).
3. Testing handle operation with idle current.
 - When the lock is in fail locked setting: Electrical control is not connected → Press handle down → Connect electrical control → Wait until current consumption is dropped to idle current and release the handle slowly → Press handle again. Handle should open the lock at once.
 - In addition the same test is done with every tenth lock, but with fail unlocked setting and with both 30V DC and 10V DC voltages.

MECHANICAL TESTING:

1. Check the operation of deadlocking: Deadlocking is not released by trigger bolt but only after trigger bolt and double action bolt has been pressed inside the lock case and until the double action bolt is released.
2. Check cylinder operation.



STANDARD DELIVERY:
SPLIT SPINDLE: HANDING 4, FAIL
LOCKED
THROUGH SPINDLE: HANDING 2.4, FAIL
LOCKED; **NOTE! NO EXIT SCREW!**