

Guide for the mechanical update to the international Guidelines 2011



The following guide describes the necessary step to update the mechanics of Ambu Manikins to meet the international Guidelines for Resuscitation 2010.

The following Ambu manikins can be updated:

Ambu Man C
Ambu Man I
Ambu Man W
Defib Trainer C
Defib Trainer W
Airway Man C
Airway Man I
Airway Man W
Cardiac Care Trainer C
Cardiac Care Trainer W

For using the manikins in combination with the Ambu CPR Software the Software needs to be upgraded to Software Version V3.1.0 in order to meet the guidelines. The CPR Software V3.1.0 is not backward compatible and cannot be used with manikins that are not mechanically updated.

Note: Performing the updates will be done at own risk. The guide describes the steps to perform the mechanical update of the manikins. In order to achieve the same accuracy of the manikins as from manufacturing, Ambu recommends letting the manikins be mechanically calibrated inside an authorized Ambu service center.

Ambu will not be reliable for malfunctions or damages to the manikins that occur as a result of the update.



Fig. 1
Find the edge of scale plate and bend it as picture indicated.



Fig. 2
Bend the scale plate.



Fig. 3
Force the slotted pin to lock back and front scale plate to be separated.



Fig. 4
Disassemble both 2 slotted pins, and then take the front scale plate out.



Fig. 5
After the disassembly of front scale plate, it is easy to take the back scale plate out.



Fig. 6
Finish the disassembly of old scale plate.

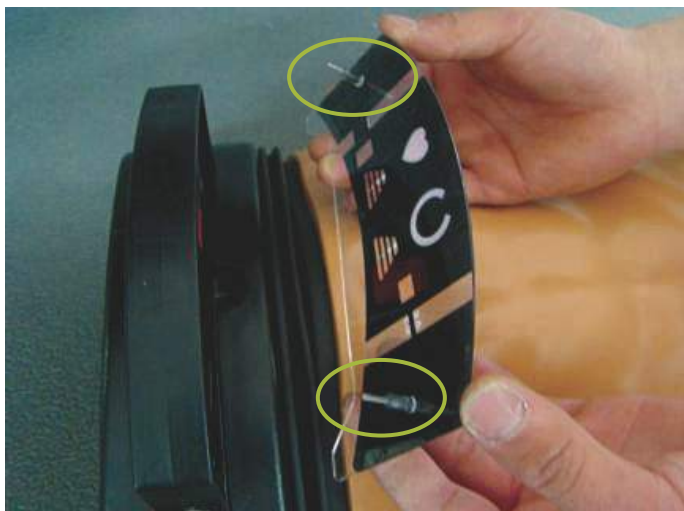


Fig. 7
Mount new front plate in the instrument panel.
Make sure 2 slotted pin go through the holes.



Fig. 8
Finish the new front plate assembly.
Check if the slotted pins are in position.

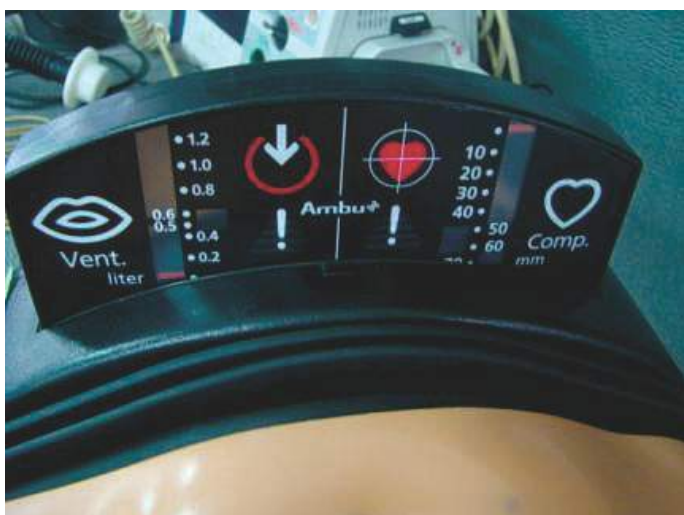


Fig. 9
Finish the scale plate replacement.



Fig. 10
Press two new scale plates to make them fit well.

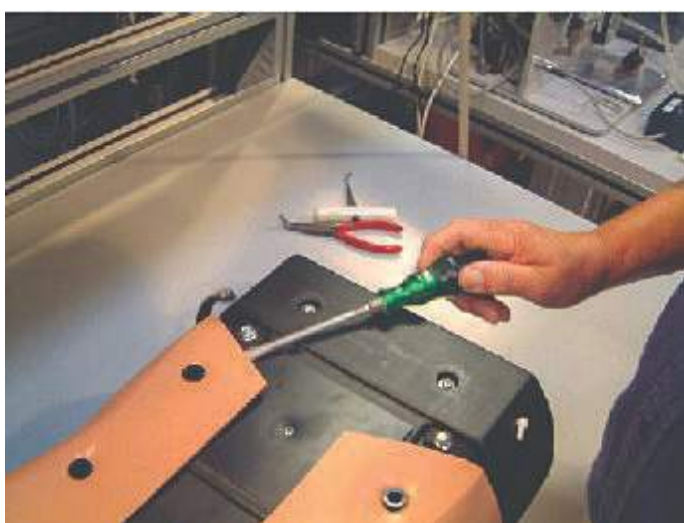


Fig. 11
Undo the strap at the back, gently using
a screwdriver.



Fig. 12
Undo the chest skin and the two parts of the chest
on the back of the Ambu Man.



Fig. 13
Manikins with removed skin.



Fig. 14
Remove by lifting each part of the chest.
During removal, treat as gently as possible.

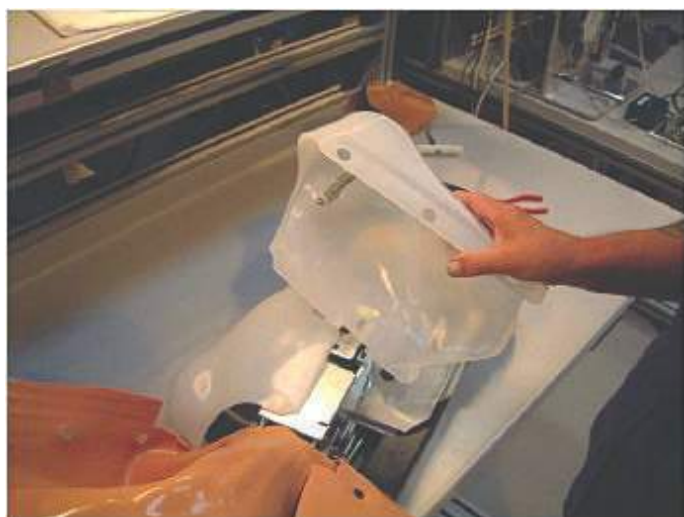


Fig. 15
To free the part of the chest turn it completely.

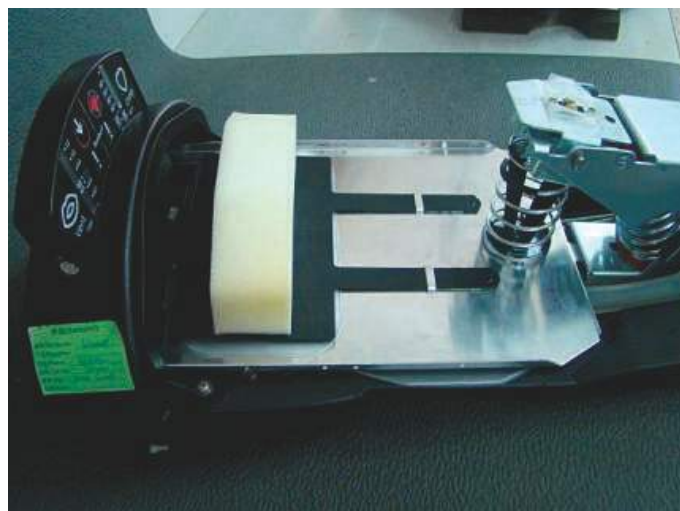


Fig. 16
Manikins with removed chest pieces.

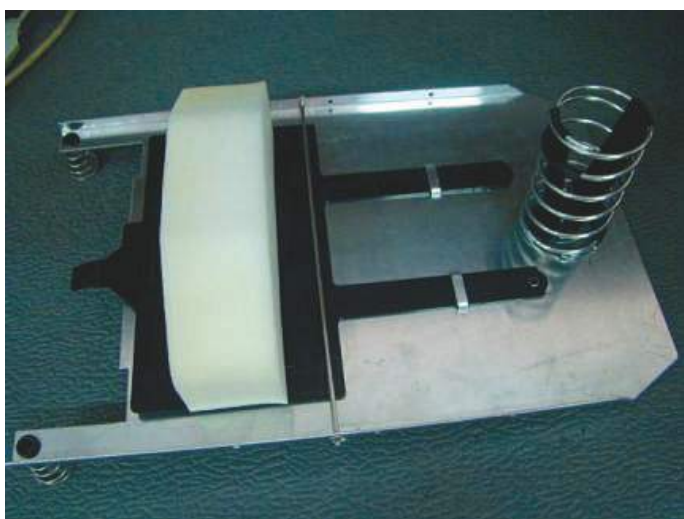


Fig. 17
The whole lung plate will be replaced including the adjust clamp and lung plate spring.



Fig. 18
Disassemble the side spring on the lung plate.
Replace the old side spring with new spring.

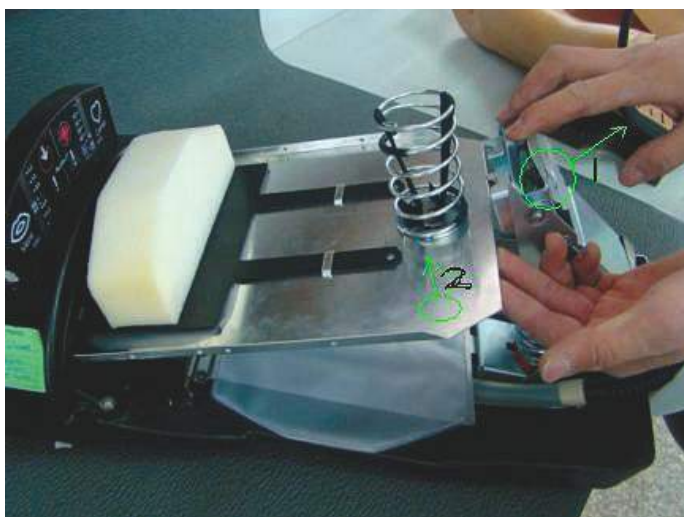


Fig. 19
Pull the old lung plate kit out. 1. Pull the pedal unit upward as "1" in picture indicated. 2. Lift old lung plate kit upward as "2" in picture as indicated.

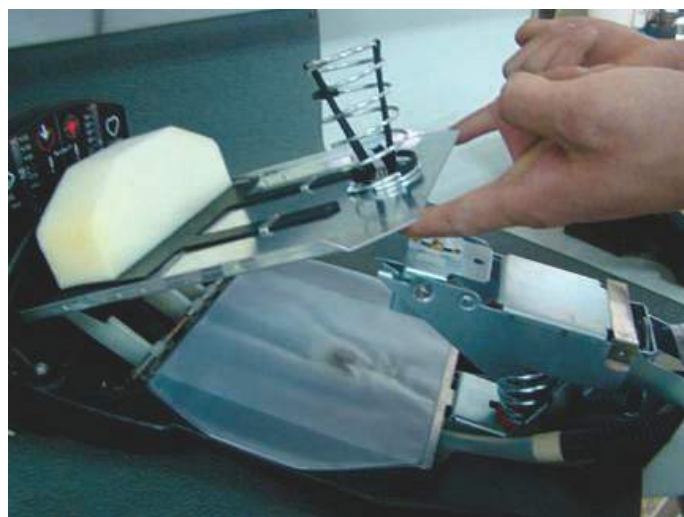


Fig. 20
Lift the lung plate kit.



Fig. 21
Press two springs at the end of the lung plate and pull the lung plate out at the same moment.



Fig. 22
Push the stomach bag on the lung plate and disassemble it.

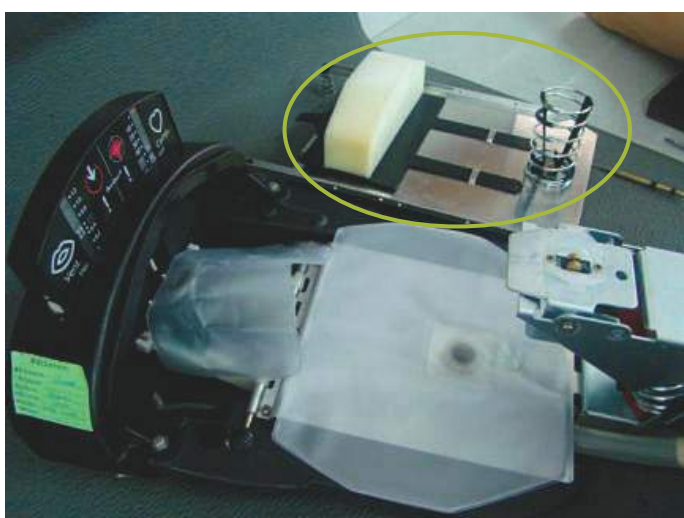


Fig. 23
Take the old lung plate kit out.



Fig. 24
If not already mounted, mount the new adjust clamp unit to new lung plate.



Fig. 25
The screw hole of adjustment clamp contact with the indicated profile of lung plate punch as much as possible.

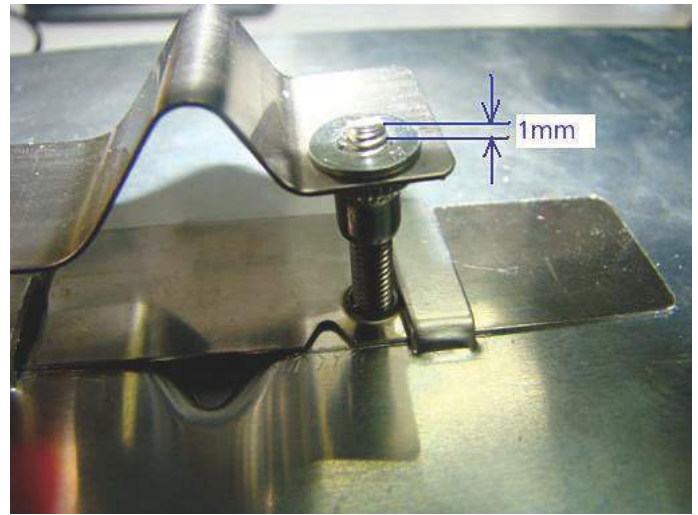


Fig. 26
The screw goes out of nut flat about 1 mm.

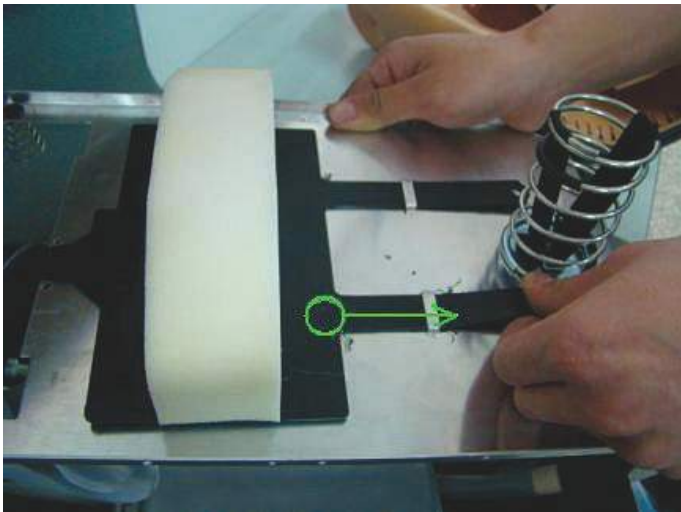


Fig. 27
Pull the black stomach plate back in green arrow direction in picture indicated. This action is for the assembly of stomach bag on lung plate.



Fig. 28
Fold the stomach bag in case it is damaged by the sharp edge of lung plate. Mount the stomach bag to lung plate kit.



Fig. 29
Unfold the stomach bag and make sure it is flat on the lung plate.



Fig. 30
Press two springs at the end of the lung plate and push the lung plate into the belt pad.

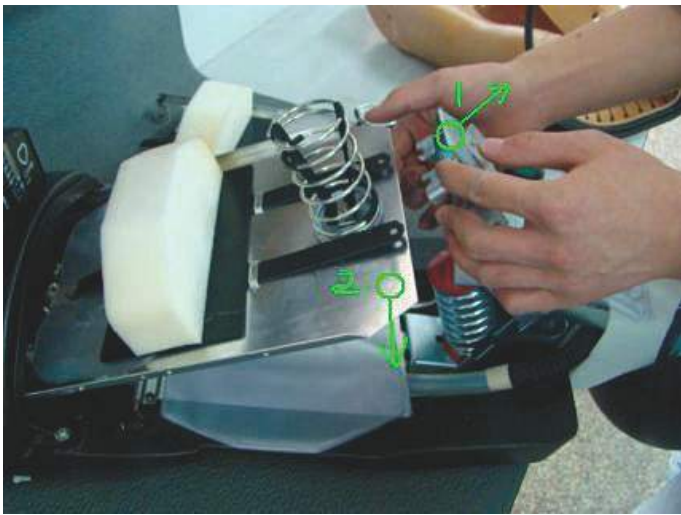


Fig. 31
Pull the pedal unit upward as picture show "1".
Put new lung plate kit down as picture show "2".

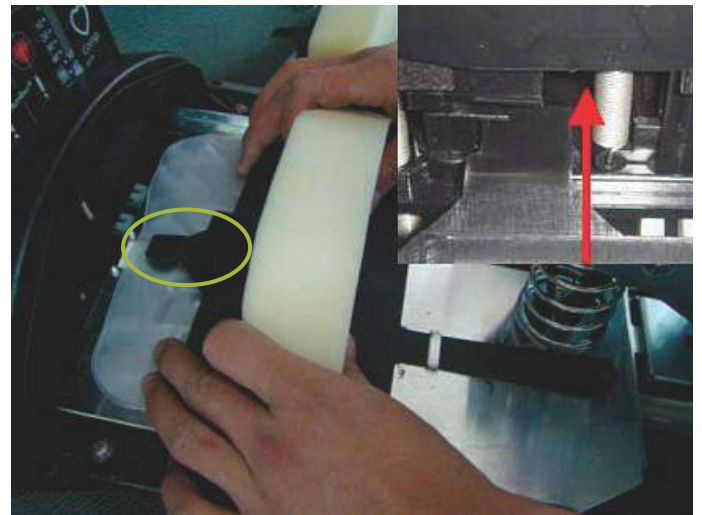


Fig. 32
Push the black stomach plate back to the original position. Make sure that the tip of stomach plate in the remaining indicator (the one without spring).

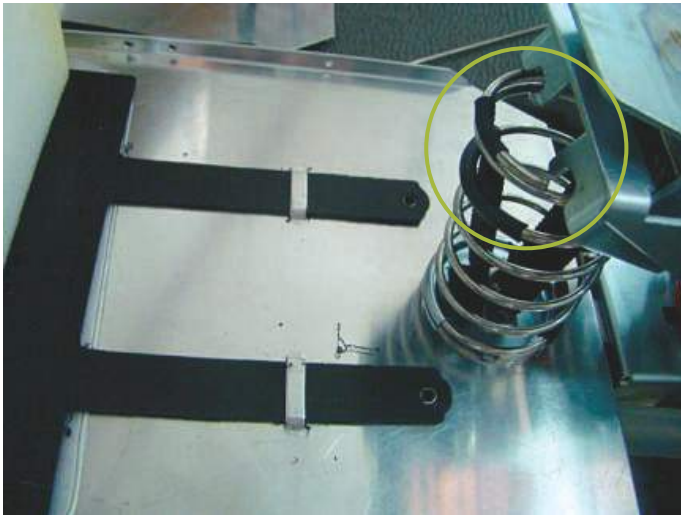


Fig. 33
Lock the pedal in the spring.



Fig. 34
Mount new side spring in the lung plate.

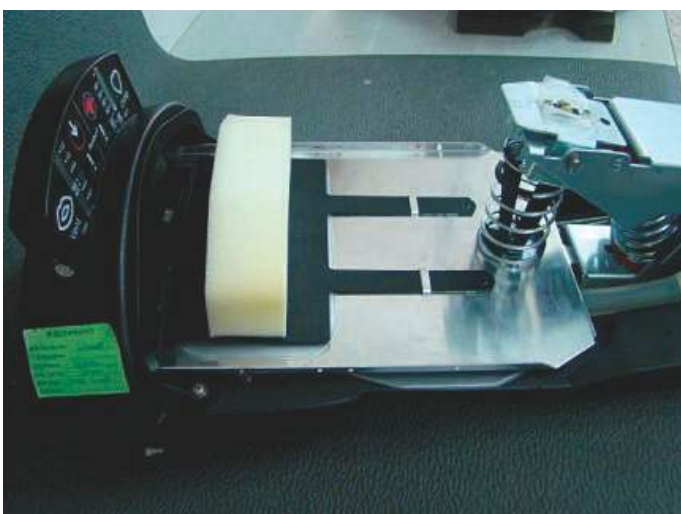


Fig. 35
Finish the lung plate kit replacement.



Fig. 36
Mount the chest units accordingly.



Fig. 37
Mount the skin accordingly.



Fig. 38
Remove the Battery compartment. Adjust the screw in the adjustment clamp to zero the compression indicator.

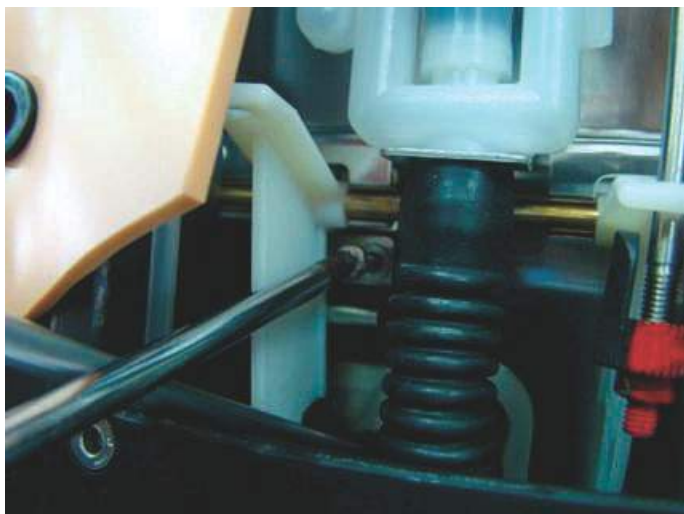
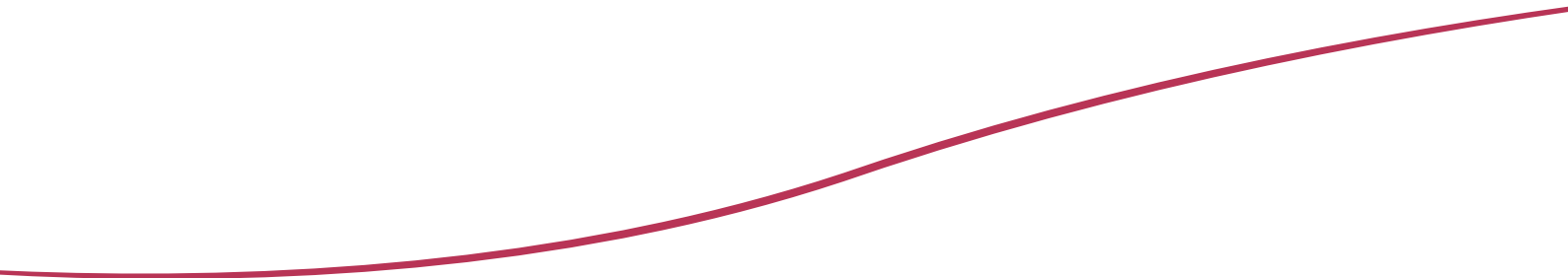


Fig. 39
Adjust the screw of the ventilation indicator.



Fig. 40
The indicator shows "0" litre and starts moving as soon as ventilation is done. When finally adjusted mount the battery compartment.



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