ACSS mounting manual

Tools needed : small hammer, flat head screwdriver, electric drill with 4 or 4.5 mm diam head, cutter knife with new blade. A hook shaped blade – used for cutting carpet – is better and more safety.

1 – Unmounting original HEAD system (called "HS" below)

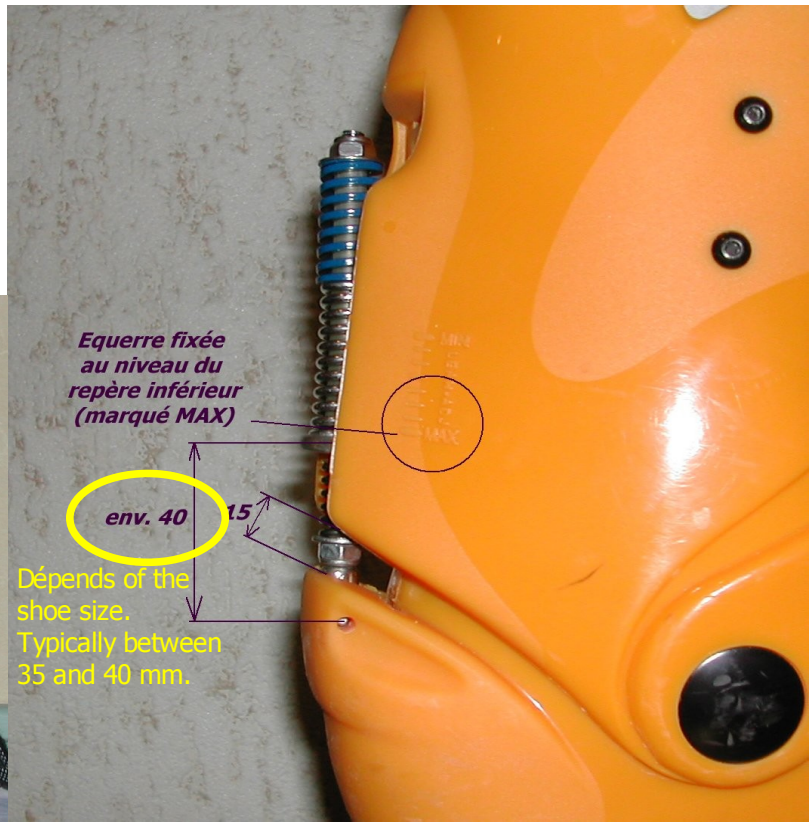
- Push out the lower safety pin with the provided pin remover (nail)
- Unmount HS by pulling it up around the upper
- Keep original HS spring

2 – Cutting out the internal boot shell

- Remove internal boot liner
- It is advisable to let the boot plastic get softer by letting them warm near an oven for a couple of hours.
- Cut out the boot . 2 cutting levels are possible :
  - level 1 – average softness
  - level 2 – maximum softness

3 – positionning the angle iron.

- Position the angle iron approximately at the lower level marked 'MAX'
- The backside spring must be a little under load.
- Mark the hole positions with a felt tip
- Drill 2 holes Diam 4.5 or 4mm to fasten the angle iron.
- Fasten the angle iron with the 2 flat head.



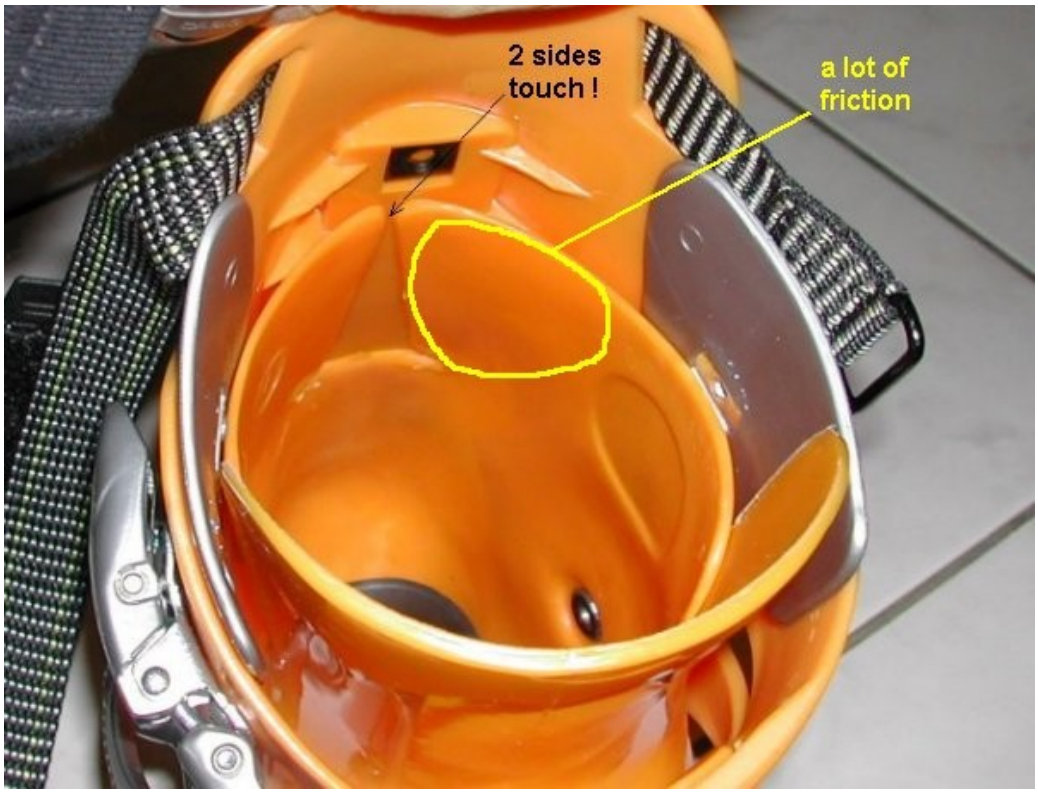
4 – Mounting and setting

- Mount the backside compression spring on the threaded rod and pass the rod through the hole in the angle iron. Position then the head in the boot shell lower housing.
- Push back in position the safety pin
- Mount the frontside springs : Head original + green supplied with ACSS
- Mount the upper nut in position with the washer.
- The upper nut makes it possible to choose the prestressed and stiffness of the frontside position of the ACSS.
- For setting the initial angle of the upper boot differently, it is possible to add a nut in the lower part of the threaded rod (nut not provided)

Cutting out the plastic shell to improve overall softness of the boots

The problem with the original Head

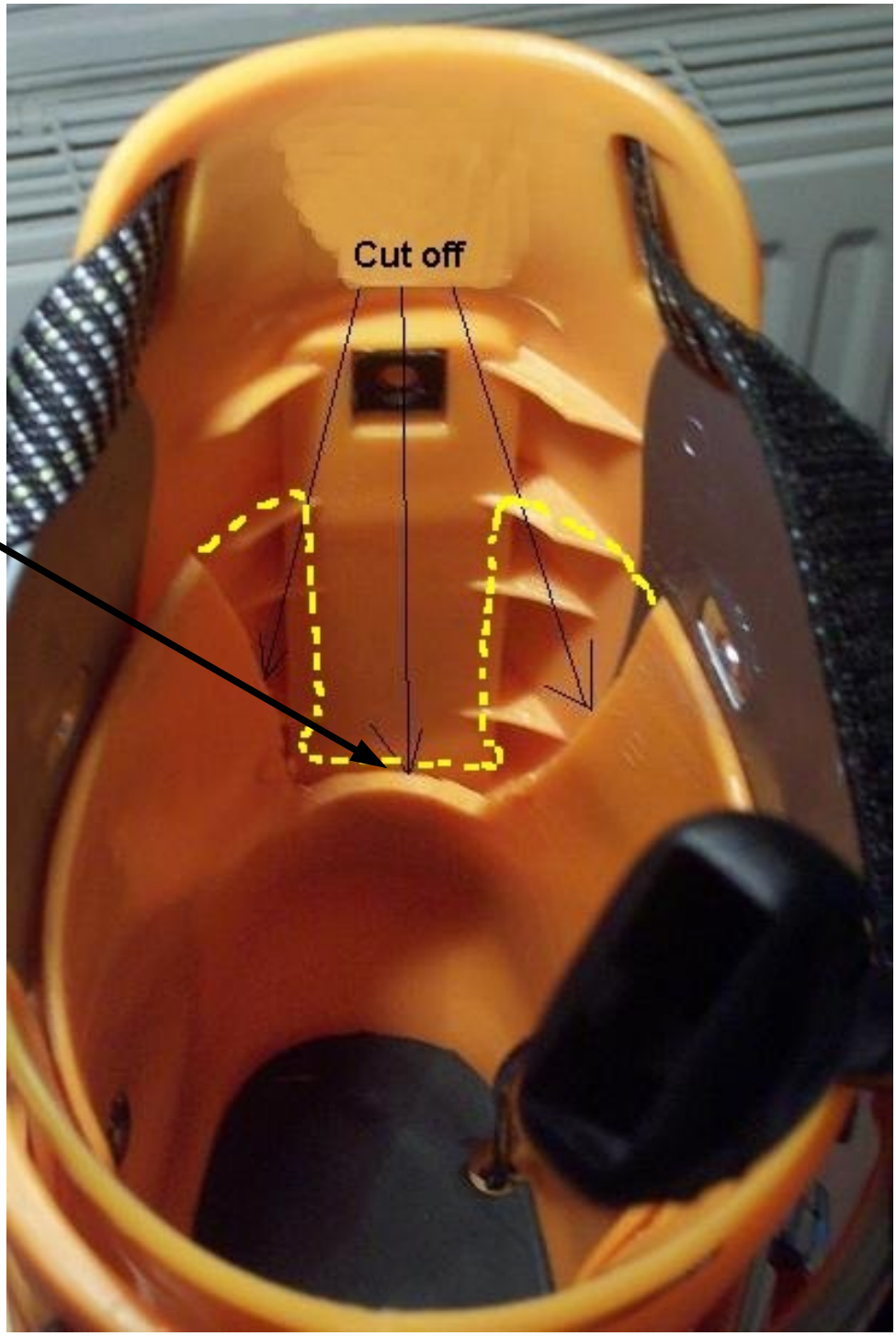
There is a gap between the 2 sides of the plastic shell.
When the boot flexes forward, the 2 sides touch (black arrow)
There is also a lot of friction between lower and upper part of the shell. This interferes with the proper functioning of the spring system.



Improvement, Step #1

If you want only a little more flexibility, cut off the area generating friction.
Dashed line show original shell outline.
Use a good cutter with a hook shaped blade.
It's easiest if you heat the shell near a radiator before cutting plastic.

CAUTION : Do wear safety goggles and gloves in order to prevent any accident during the process of cutting the shell !

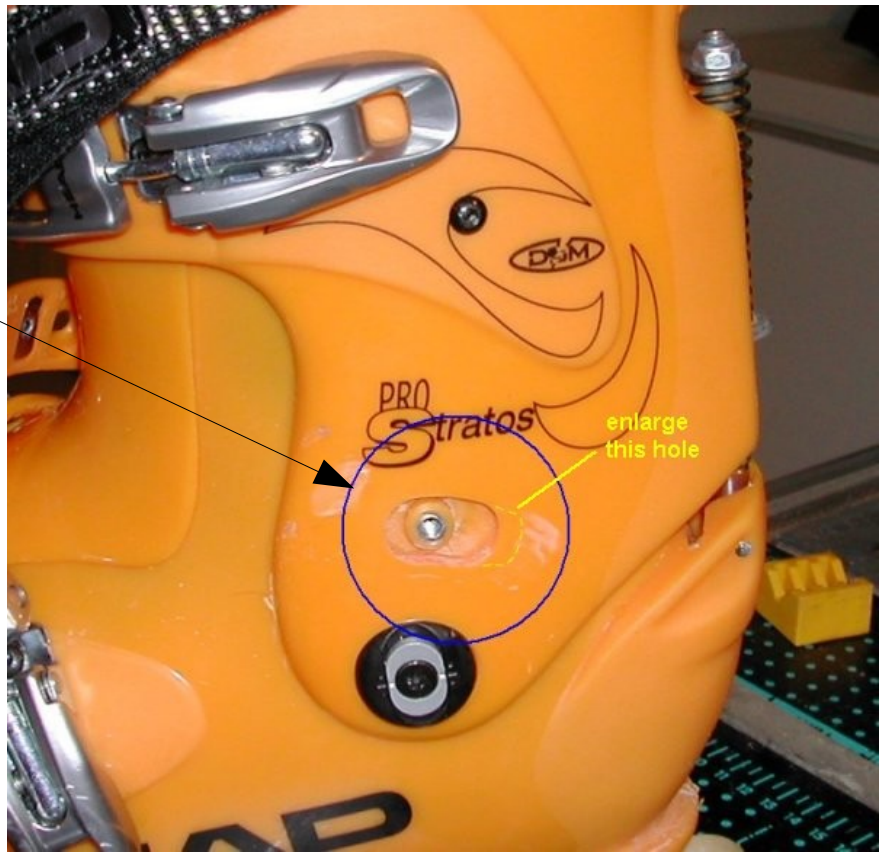


Improvement Step #2

To dramatically increase flexibility, remove more plastic !

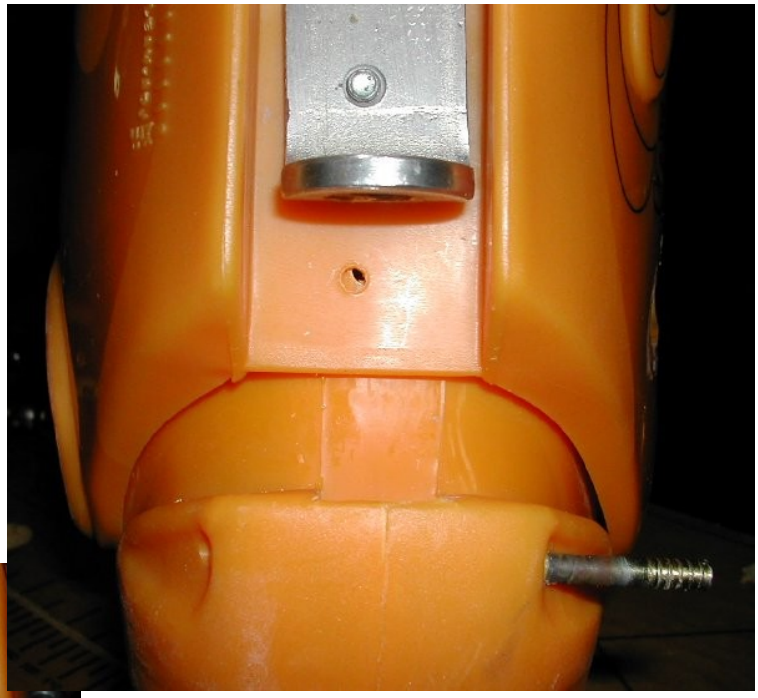
At this stage, I found that the lateral screw (pivot point) touches in the hole. Increase the bean shaped hole (with a dremel tool)

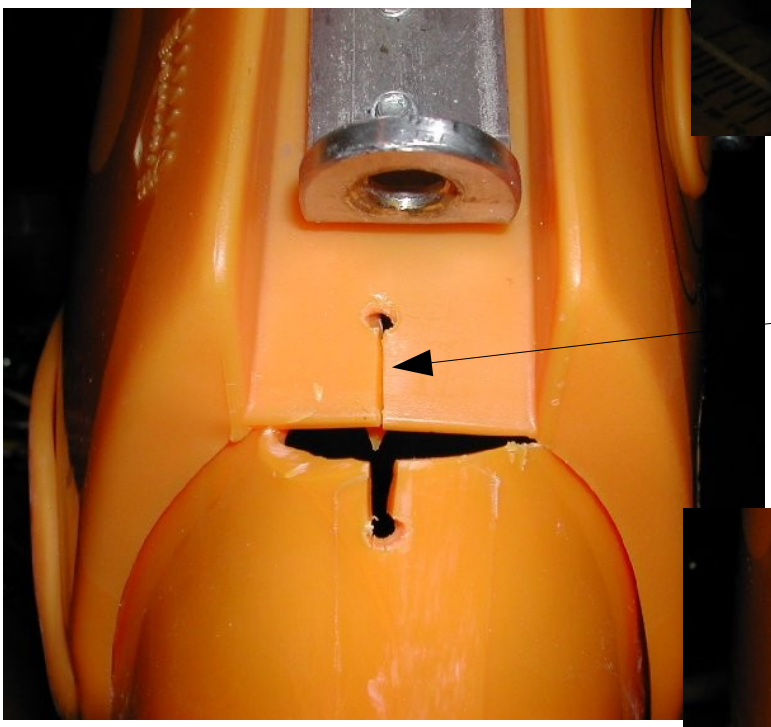
To reduce friction, it's possible to add a little ring (D4) between the buckle and the nut.



Improvement Step #3 (Thanks to Thierry for the idea)

Drill a hole (D4) through the 2 parts of the plastic shell





Split with a cutter

Maximum forward lean : The stroke is limited by the spring compression.

Another more radical modification is explained on the forum, but requires more tools and skill.
See here : http://www.extremecarving.com/forum/viewtopic.php?t=1034 page 19. English explanations in italic