

CP2985 Air Jack

Servicing Instructions

(Kit Part Number CP4985-10)



Dis-Assembly Instructions

1. Hold the Air Jack in a vice using the pair of threaded Body Clamps (Tool 1). Do not over tighten. **(See Fig 1.)**
2. Using 2 standard 'C' spanners (Not supplied), lock together a pair of the Air Jacks Mounting Rings supplied with the Airjack. **(See Fig 1.)**

Fig 1.



Fig 2.



3. Remove from the vice and fit the Cap Clamp (Tool 2) to the knurled Airjack Cap. Locate the Air Jack and Cap Clamp vertically, clamping the Cap Clamp in the vice. **(See Fig 2.)**
4. Using a 'C' spanner, rotate the lower Mounting Ring anti-clockwise to unscrew the Body from the Cap. Note:- Approximately every ½ turn of the Body, use Pin Tool (Tool 3), located in the Airjack Foot to rotate the Foot clockwise ½ turn. This is to prevent the internal Tension Spring being wound up and damaged. Continue for approximately 6 full turns until the Cap thread is fully out of the Body. The internal Tension Spring will keep the 2 parts pulled together. **(See Fig 2.)**

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5. Remove unit from the vice, take off the Cap Tool and re-locate the unit horizontally in the vice again using the Body Clamps (Tool 1). **(See Fig 3.)**

6. Screw the 'T' Bar (Tool 4) onto the Air Jack Inlet Adaptor thread. Pull on the 'T' Bar to expose approximately 8 coils of the internal Tension Spring and slide the Spring Trap Plate (Tool 5) over 1 spring coil and against the open end of the Body. **(See Fig 3.)**



(Fig 3.)



(Fig 4.)



(Fig 5.)

7. Remove the 'T' Bar and unhook the Cap from the Tension Spring. Locate Spring Hook Tool (Tool 6) onto the Tension Spring hook, pull gently to take the spring load and remove the Spring Trap Plate. Carefully release the load to allow the spring fully back inside the Air Jack and remove the Hook Tool. **(See Fig 4.)**

8. Remove the unit from the vice and pull on the Foot to expose the Air Jack Ram. Fit the pair of Ram Clamps (Tool 7) to the Ram and tighten securely in the vice but do not over tighten. Then clean the Ram first if it is dirty. Fit Pin Tool (Tool 3) onto the Foot and unscrew the Foot anti-clockwise out of the Ram using either a Torque spanner and a 21mm Socket or using a 15mm diameter Tommy Bar (Not supplied) through the hole in the Pin Tool. Pull the Foot and spring out of the Ram. **(See Fig 5.)**

9. Remove the Inlet Adaptor from the Cap and discard the copper washers.

10. The Bearing Housing is still located in the Body, but no tool is supplied, as it is not necessary to remove it. The small Bearing in the Bearing housing can be replaced in situ.

11. The Air Jack is now sufficiently dis-assembled to clean, lubricate and fit replacement parts.

Airjack Servicing Instructions and Re-Assembly

These notes assume that all metal components are in a re-usable condition. If any component is damaged beyond use, then the Air Jack should either be returned to AP Racing for full re-conditioning, including replacement of the damaged components, or additional replacement parts will need to be ordered.

1. Remove all 3 O-rings from the Cap, the Piston and the Foot and both plastic Bearings and discard them. Thoroughly clean all other metal components. Use an alcohol based cleaning fluid. i.e. Methylated Spirit or warm soapy water. **DO NOT USE ANY PETROLEUM BASED CLEANERS AS THESE WILL DAMAGE THE RUBBER SEALS.**

2. Use the 3 O-rings, the 2 Bearings and the 2 Copper washers contained in Repair Kit CP2985-1RK to replace those parts discarded. In order to install both Bearings, they will need to be split as shown in the illustration included in the repair kit.

3. Apply Silicon Spray lubricant to the main Bore of the Body and pack the Main O-Ring groove of the Piston with Silicon Grease as shown in the illustration below. Take care not to allow lubricant onto any of the threads that are to be bonded with Loctite. **(See fig 6.)**

4. Re-Assembly is the exact reverse of the operations listed above. Assembly Bullet (Tool 8) is to be engaged in the end of the Ram to aid its re-insertion through the Body and Bearing Housing assembly.

5. The Foot is to be bonded to the Ram and the Cap is to be bonded into the Body using Loctite 270. Ensure

threads are clean, apply Loctite Activator 7649 and then apply 1 complete circumferential ring of Loctite to the first turn only of the Male thread. Do not apply excess Loctite. With the Activator applied, the Loctite will set quickly, so follow the procedure above, only just prior to threading any pair of parts together. Quickly screw parts together until fully seated, ensuring that any O-rings are correctly positioned and are not cut. Using the same tools used for dis-assembly, tighten all parts securely. Use a compressed air supply of 5 Bar maximum to check for leaks.

Position O-Ring in this groove, against the face shown.
Pack the remainder of the seal groove with silicon grease.

