

Redline Airsoft

Putting the "Air" in Airsoft

The Redline AirStock is a relatively simple drop in kit for most M4 bodies. You will need to modify your lower by cutting down your buffer tube extension. You will also need to modify your gearbox shell by drilling larger hole the back and removing material to allow the airline to exit the rear of the gearbox shell.

If you are installing the Gen-2 AirStock on a non VFC lower that has had a Gen-1 AirStock previously installed on it you will need our optional thinner sling plate. The thinner sling plate will allow the previously cut down buffer tube extension to protrude through and into the regulator/tank adapter assembly.

Step 1: Modify the gearbox shell

Using a dremmel or other suitable grinder remove material as shown in figure 1 to allow the engines airline to be run out the rear of the gearbox shell. Gearbox shells with large amounts of reinforcement may require the removal of more material.

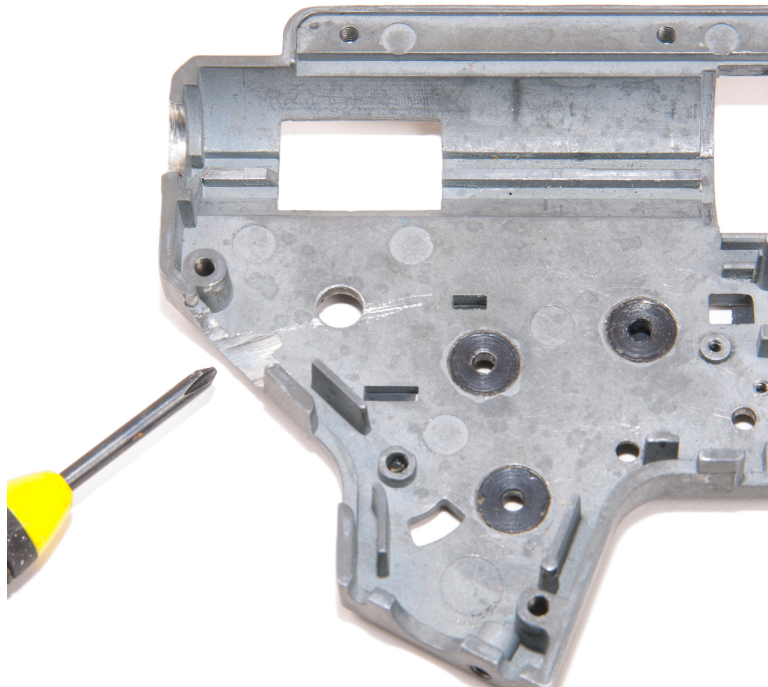


Fig-1

We highly recommend that you remove the rear section of the gearbox as shown. It makes installation of the AirStock much easier. Cutting the front section of the gearbox as shown will allow you to remove the engine for maintenance without removing the gearbox from the lower.





Fig-2

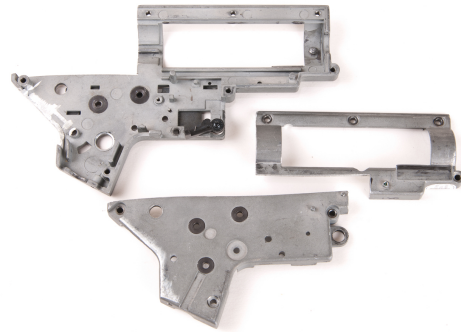


Fig-3

If you chose not to remove the rear section you will need to drill out the spring guide hole at the rear of the gearbox to 7/16ths of an inch to allow access to the AirStock mounting screw once the gearbox is installed in the lower.



Fig-4

Step 2: Prep the lower:

The regulator/tank adapter assembly is machined on the back side to fit over the cut down buffer tube extension. (Fig-5)

The buffer tube extension must be cut down to an overall length of slightly less than 5/16 (.315) of an inch. It must at least slightly protrude from the sling plate, but by no more than 9/64 (.140) of an inch (Fig-6)





Fig-5



Fig-6

If the buffer tube extension is too long the regulator/tank adapter assembly will not fit flush with the sling plate. If the buffer tube extension is too short the regulator/tank adapter assembly will rotate on the lower.

Next install the engine and gearbox shell assembly into the lower. Running the engine air hose out of the large opening in the rear of the lower. Make sure that the hose runs under the rear takedown pin as shown.

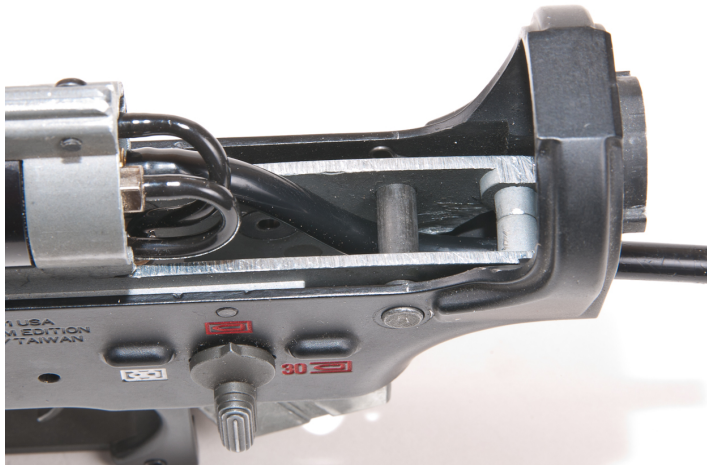


Fig-7

Step 3: Fit and cut the engine air hose:

It is important that the hose is cut exactly as described. Cutting the hose too short will result in a leak. Cutting the hose too long will result in poor regulator performance, as the hose will contact the reg piston.

Temporarily fit the sling plate over the buffer tube extension. Slide the provided thick white washer over the hose and trim the hose so it is even with the washer.



Fig-8

Step 4: Install the AirStock on the lower:

Install the sling plate onto the lower. Apply a light amount of Tech-T grease onto the end of the engine airline then slide the regulator/tank adapter assembly onto the lower. The back side of the (upper) tank adapter is machined to fit onto the buffer tube extension

Install the sling plate onto the lower. Apply a light amount of TFCN-1 grease onto the end of the engine airline then slide the regulator/tank adapter assembly onto the lower. The back side of the (upper) tank adapter is machined to fit onto the buffer tube extension and the air line fits into the small hole on the back of the (lower) regulator.



Fig-9

Insert the 5/8ths inch 10-32 flange head screw through the hole in the lower.



Fig-10

Tighten to secure the tank adapter/regulator assembly onto the lower.



Fig-11

(Gearbox drilled but not cut)

You will have 1 left over bolt once the AirStock is fully assembled. It is not used with a standard VFC installation.

Your FCU and Battery will now need to be in the put in the hand grip While not strictly

standard VFC installation.

Your FCU and Battery will now need to be in the put in the hand grip. While not strictly necessary a shorter FCU wire harness is available to allow this to be more easily accomplished.