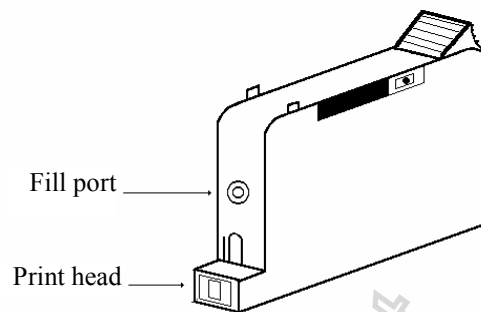


Cartridge:	HP 51645A/G, C6615AN [15]	Cartridge Wt. New:	Approx 110g
OEM:	Hewlett Packard	Printer:	DeskJet 700 series DeskJet 800 series DeskJet 1600C
Printhead Location:	Cartridge	Cartridge Type:	Reservoir
Reliability:	* * * * *	Skill Level:	Expert



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Fig. 2.56

COMMENTS

There are 51645a and 51645g and just plain number 15 cartridges. Procedure is the same so don't be confused. This cartridge requires a very fine pigment ink. The easiest way to fill this cartridge is through the print head nozzles if you have a specialized tool or machine. If not, take steps to make sure ball does not lodge behind the print head. These instructions will eliminate air lock problems. This cartridge contains a spring filled foil bag which is easily pierced. A mesh filter seats off the print head section from the rest of the cartridge.

REQUIREMENTS

- ♦ 40 ml Black Pigment Ink
- ♦ 50 ml syringe
- ♦ Ausjet bottom refilling tool
- ♦ Steel ball bearing or reusable plug.
- ♦ Small bench vice set up with foam or timber pads for squeezing cartridge sides.
- ♦ HSC1000 solution or steam.

REFILLING METHOD

STEP 1 Soak the print head in HSC1000 for 10-20 mins or gently apply steam direct to printhead.

STEP 2

Insert cartridge into the bottom filler, attach bare lock syringe and insert the appropriate 40ml of black ink. Remove the refilling tool, wipe cartridge and place in printer to print a test sheet.

STEP 2a.

If using the plug method for refilling : Soak print head in HSC1000 for 10-20mins then insert cartridge into a foam sided vice and close so that the sides of the cartridge are squeezed in slightly. (if vice is available)

STEP 3a.

The fill port is located under the black plastic tag above the print head as shown in the illustration. Carefully cut away the black tag to expose a silver ball which must be pushed into the cartridge. Use a ball point pen or golf tee to push the silver ball inside the cartridge.

STEP 4a.

Take a 50 ml syringe and fill with 40 ml of ink. Do not attach needle. Insert the syringe tightly into the fill hole so as to create a vacuum. Very, very s-l-o-w-l-y, inject ink into the fill port cavity until air starts to hiss out of the print head. Continue until all the air is displaced and clear ink (not froth) flows from the print head. Keep the syringe tightly inserted into the fill port while you tightly seal the print head. Now remove the syringe from the fill hole and insert a plug.

If this was done correctly you have completely eliminated all problems due to airlock.

Circuit Test for the HP 51645a style and HP 51640 Cartridges

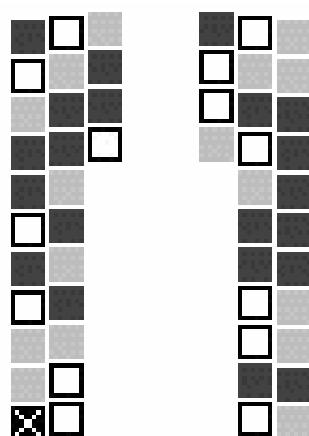


Fig. 2.57 HP 51645A

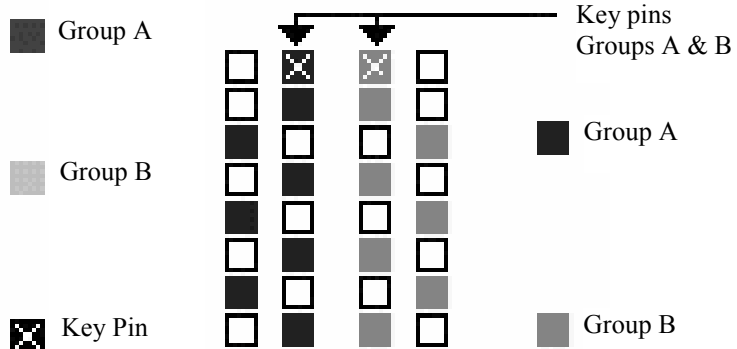


Fig. 2.58 HP 51640

The Key Pin for the '45A' is common to both groups.

The Group A reading for the 45 A is 56Ω and for group B, 112Ω.

All the pins for the 51640 cartridge should range between 46 and 55Ω.