

HOPE camera fitting for HOPE easy arm hollowing



Use allen key to screw 16mm main stem onto hollowing jig. Its best to use a little thread lock or 2 part epoxy resin, and leave it on as a handle even if not using the camera!

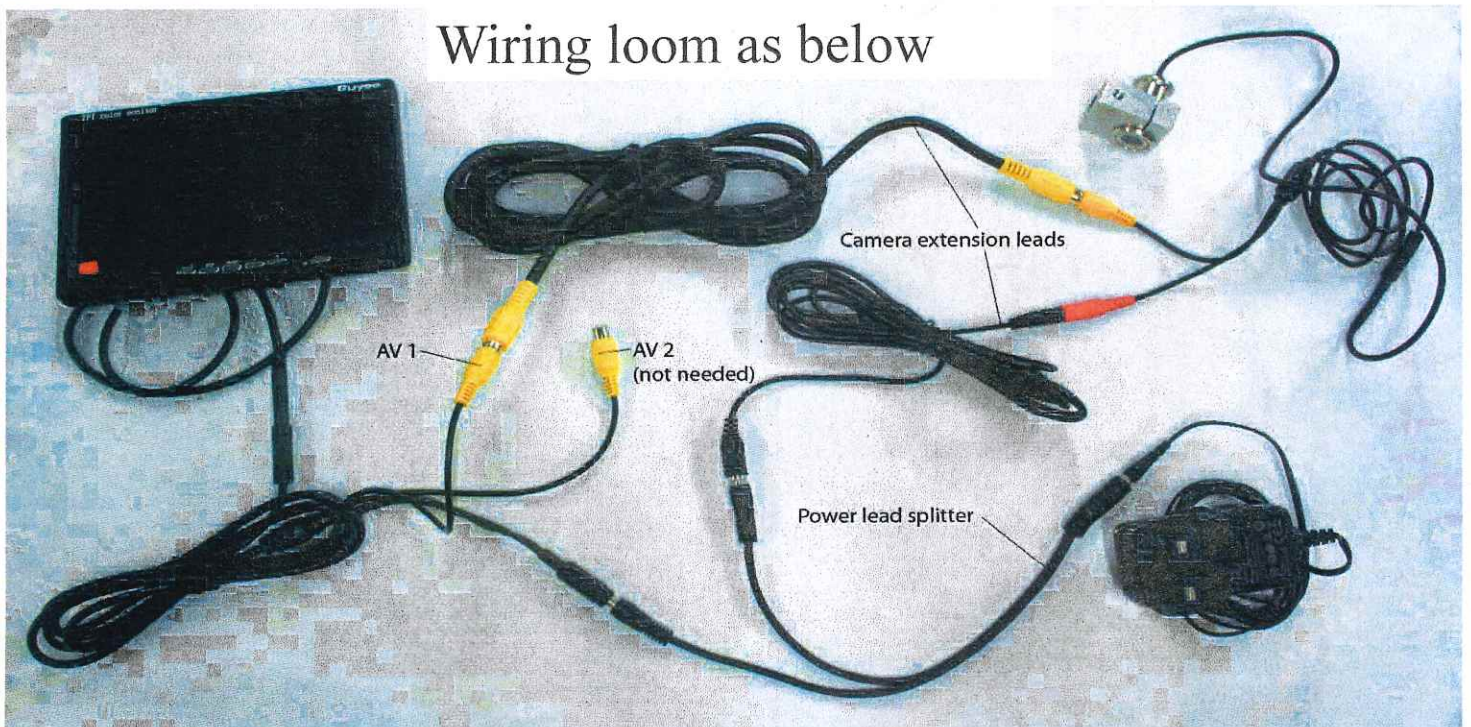


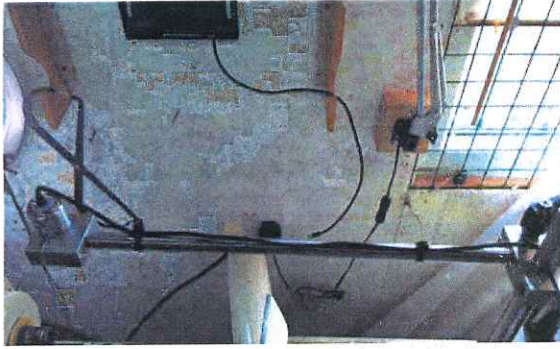
Insert camera housing onto long 12mm bar and tighten down the grub screw to fix in place.



Use junction piece with levers to bring both sections together

Wiring loom as below





With the camera mounted, use the cable ties provided to secure the lead to the boom bar. Ensure you loop enough cable on top of the camera so the lead isn't pulling on the camera housing. The second is placed about 6" away from the head.

Mount the screen holder in a safe place and where you can see the screen easily. I personally use a magnet to hold the camera on top of my lathe and don't fix it to the wall at all.

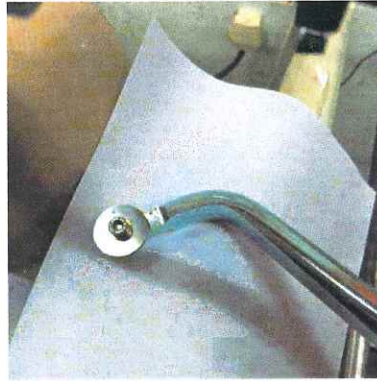
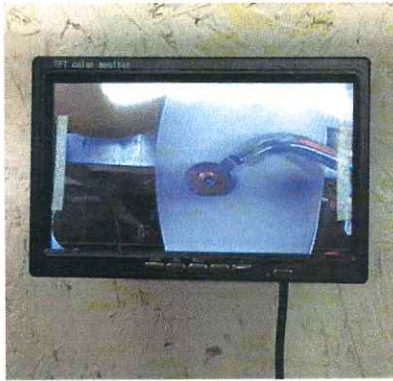


Mount the screen onto the screen holder.

Ensure the camera housing with camera is level. I look from the back of the clamp and eye down to the camera housing to see if its level. If it sits at an angle it may give a false reading when you mark for wall thickness



I have found that if you place the camera about 3-4 inches away from your hollow form, the image is a nice size to work with. Too far away, the image is too small. Also aim for the cutter in the middle of the screen.



***** You may have to orientate the screen. You should have the bed of the lathe horizontal on the screen with the work piece to the left. You can change the view by pressing the menu button 5 times then pressing the plus or minus key. Then place a piece of paper under the cutter. This helps with the drawing of the cutter.**



Draw with the white board marker provided, the image of the cutter. I use a circular motion. You need to be as accurate as you can . If you make a mistake, just rub it out. There is 2 screen protectors on the screen. Take care not to press too hard on the screen when rubbing out. Use a thinners or white spirit to wipe off.

Now that the cutter has a ghost on the screen, when you take the cutter inside the hollow form you can see exactly where the cutter is to relation to the form. I get the top part to correct thickness then take the rest down to the same gap . You can place a secondary mark on the screen to aid with wall thickness. Once to have the correct wall thickness on the top, take the cutter inside so it touches the inside, then draw a line or place a dot where the edge of the form is. Add dots or a line all of the way around the cutter. When this secondary line hits the edge of the form you are at the correct wall thickness!



TOP TIPS!

I find that tipping the cutter about 5-10 degrees down, it make a less aggressive cut and is more manageable. This is the same for the carbide tools and round scrapers.

Any tool does not like cutting on the centre so I find it easier to drill the centre core to depth first. I use a 15mm forsnor bit then ad an extension to reach depth.

Always make sure the tool does not catch in the mouth of the form. If you are getting round the under cut and the tool touches or wedges on both sides of the form, this can result in cracking the mouth of the form.

I generally hollow at about 1500 RPM. Always turn at a safe speed to you. Any help needed, please email or call. I always happy to help. Simon hopewoodturning@googlemail.com