

LANDING GEAR CABLE ASSEMBLY

1. The landing gear cable details can be found on sheet 1.

The landing gear cable should be added after the landing gear struts have been painted. This cable is important to the stability of the under carriage, so, ensure this cabling is guitar string tight.

2. Locate the following parts -

#38, aircraft wire – 1 piece

#40, hex screw – 2 pieces

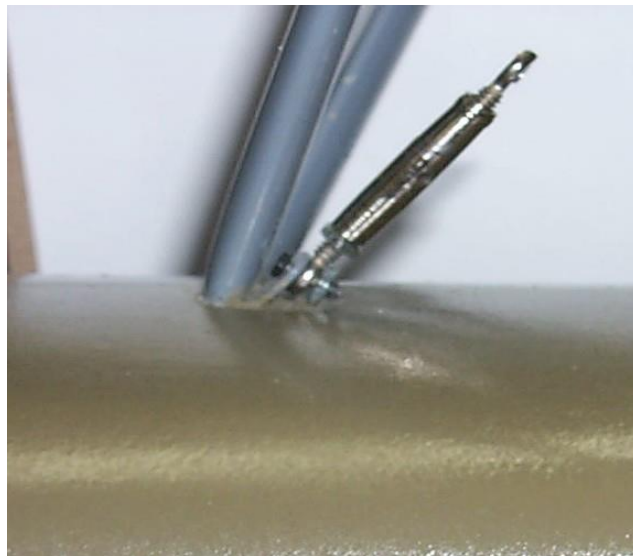
#108, hex nut – 2 pieces

#708, cable – 1 piece

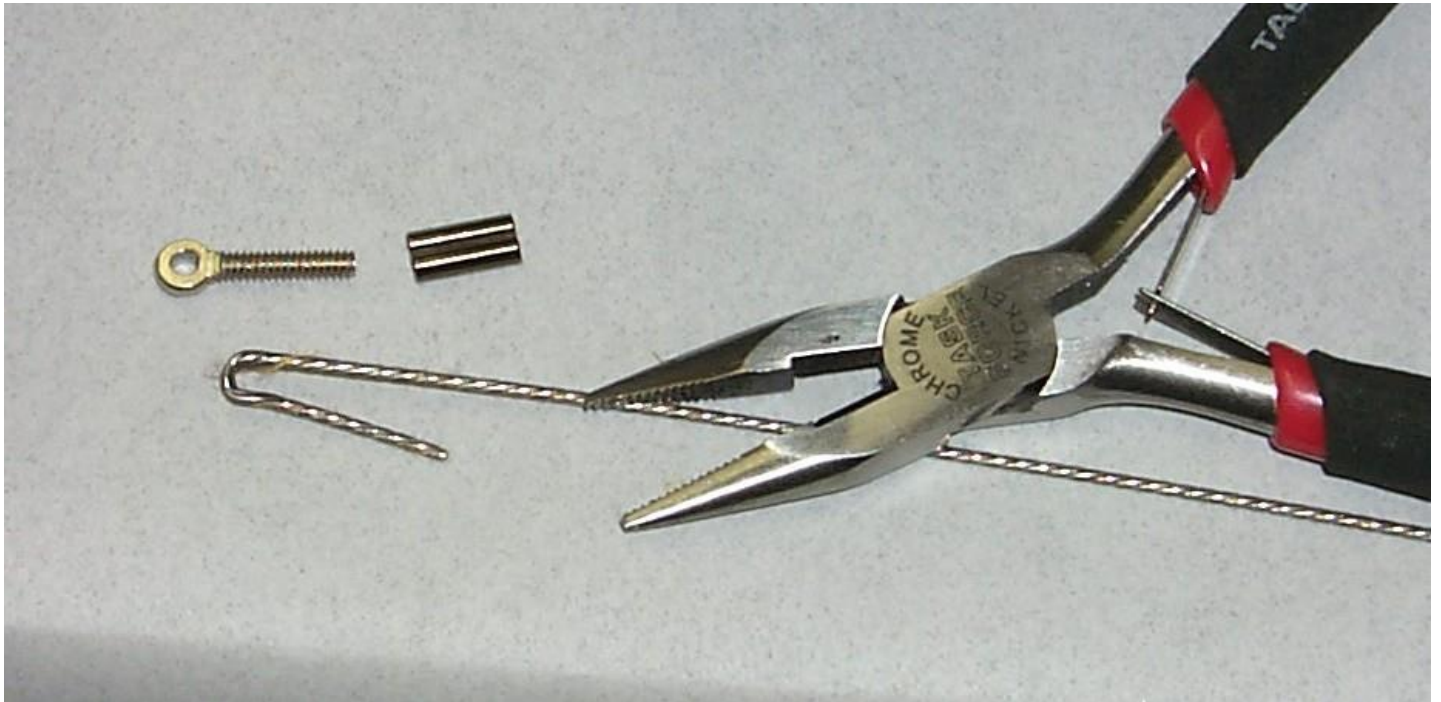
#709, turnbuckle – 2 pieces

#720, sleeve – 4 pieces

3. The holes in the turnbuckle **#709** ends are too small for the hex screw **#40**. Secure the end of the turnbuckle **#709** in a vice; using a 1/8” drill bit, drill out each hole found at the turnbuckle **#709** ends.
4. Using a hex screw **#40** and nut **#108** assemble the turnbuckle **#709** to the steel fitting **#309**. The turnbuckle **#709** should be below the fitting **#309**, reference plans. Repeat this step for the other turnbuckle **#709**. See photo below –



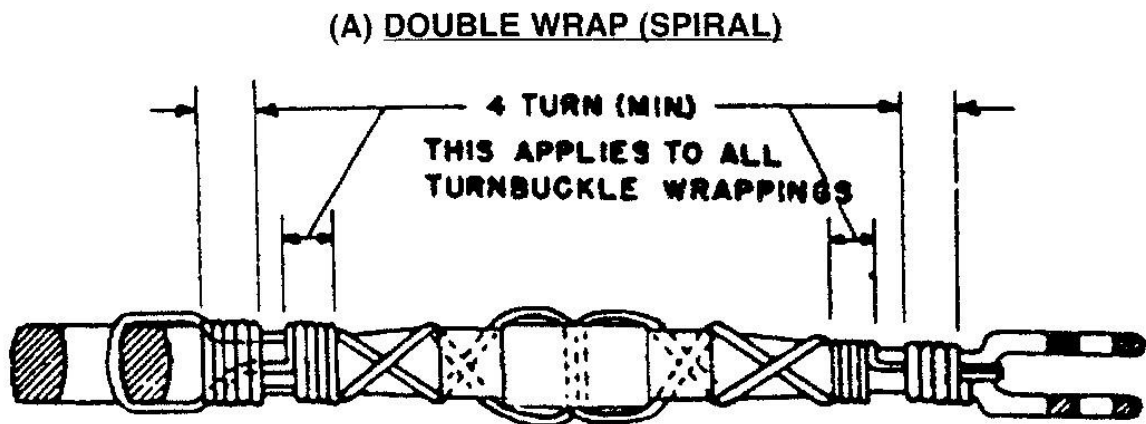
5. Cut two 20" pieces of cable #708. Using small needle nose pliers bend the cable 1" from one end. Pass the cable #708 thru the cable end of the turnbuckle #709; add sleeve #720 and crimp. See photos below –



6. Unscrew the turnbuckle #709 so it is loose. Slide another sleeve #720 onto the cable #708. Wrap the cable #708 around the top of strut #307 and back into the newly added sleeve #720. Reference the plans sheet 1 front view. Pull cable #708 tight and crimp sleeve #720. See photo below –



7. Adjust the turnbuckle #709 so the cable #708 tension is tight. The preferred way to use the safety wire #38 to safety turnbuckles #709 is a double wrap (spiral). The turnbuckle #709 has a hex nut on one end, so the double wrap will be changed to a single wrap (spiral). See diagram below -



8. Cut the safety wire **#38** in half. Run one end of the wire **#38** through the hole in the barrel of the turnbuckle **#709**. Spiral the wire **#38** ends in opposite directions around the barrel to cross each other twice before the turnbuckle **#709** end. Then pass the wire ends through the turnbuckle **#709** eye laying one wire along the barrel and wrapping the other at least four times around the threaded shank binding the laid wire in place before cutting the wrapped wire off. Wrap the remaining length of safety wire **#38** at least four turns around the shank and cut it off. Repeat step for other turnbuckle. See photo below –



9. This completes the landing gear cabling. Prior to flying inspect the cable tension.