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CONTROL CABLES AND ACCESSORIES

Care of Control Cables—For best results, the following care should be provided.

1. Eliminate sharp bends as much as possible.
2. Cables should be located and secured so they will not be trapped between the fork-frame stops at the limit of fork turning.
3. Locate clutch cable casing so that it does not contact the battery case. A slight leakage of battery acid is often the cause of early failure of clutch cables.
4. Lubricate inner cable exposed ends, handlebar end nipples and lever pivots, when general lubrication is undertaken or more often under wet conditions.
5. Replace cables as soon as one or two strands become broken.

Control Cable Replacing—Where it is possible to obtain a complete ready-made inner and outer cable assembly with both nipples fitted to suit the machine, this is the most convenient and satisfactory method of handling cable repairs. Where it is not possible to get the exact cable, a universal cable assembly can generally be obtained. This will probably be somewhat longer than will be required and the following fitting procedure should be adopted.

Check the length of the new cable and if it is appreciably longer than necessary, withdraw the inner cable and cut the outer casing to the required length. Install in position, refitting the end cap at the cut end. Next, install the inner cable and connect up. In the case of a clutch cable, the cutting should be done at the bottom end. Handlebar end should be connected and after fitting through the cable adjuster, the bottom nipple should be placed in position and secured with a drop of solder. The controls should then be operated and it should be noted that nipple is correctly positioned so that on a clutch cable installation the operating angle of the gearbox lever is suitable. The cable should then be cut about $\frac{1}{8}$ " beyond the end of nipple and the wire ends spread over as shown in Illustration 22-51, and the nipple finally soldered.

Control Lever Pivots—The side play on clutch and brake levers is adjusted by slackening the pivot screw lock nut and tightening pivot screw. Suitable adjustment will usually be obtained by tightening screw fully, slackening $\frac{1}{4}$ - $\frac{1}{2}$ turn and tightening lock nut. The objective is to adjust for a minimum side play consistent with free movement. Occasionally pivot

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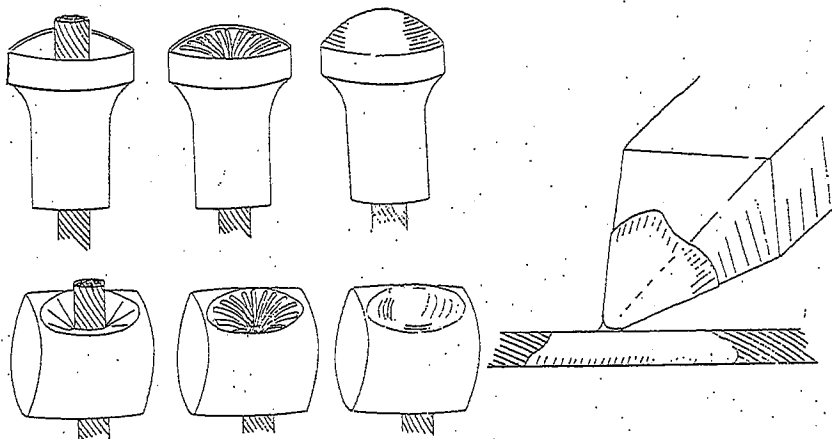
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screws in the pivot hole in the lever bracket become badly worn. If the screw only is worn, replacing this is all that is required but where there is considerable wear in the bracket pivot screw hole, the simplest solution is to drill out to accommodate a $\frac{3}{16}$ " screw. If this is done, the threaded side of lever should be retapped for a $\frac{3}{16}$ " thread or alternatively, a pivot screw with a self-locking nut or double nuts can be fitted.



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STEPS IN FITTING A CONTROL CABLE NIPPLE

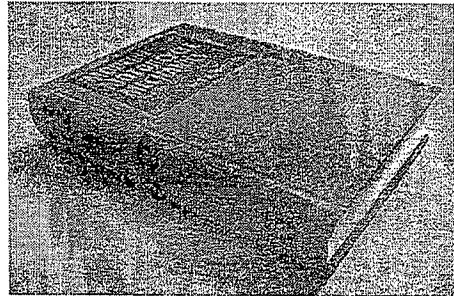
Inner cable should be "tinned" with solder before cutting unless of the "non-fray" variety. It is important that cable hole in nipple be deeply countersunk and ends of cable strands well spread over as shown before soldering. This procedure will eliminate trouble with nipples pulling off.

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