

# MSD Electron Multipliers and Replacement Horn

The lifetime of an electron multiplier is directly related to the current that flows through it and the extent of contamination or condensation that it experiences. Replace the electron multiplier or replacement horn when voltage is over 2500 V. To maximize electron multiplier life:

- Maintain the best possible vacuum, especially in the analyzer manifold
- Use extreme caution and be conservative with venting, pumpdown, and all vacuum system procedures to keep pump fluid background to a minimum
- After venting, allow four hours for pumpdown and thermal equilibration before scanning
- Actively look for background contamination and leaks and repair them immediately
- Don't tune excessively – PFTBA can result in higher background over an extended period of time
- Replace the electron multiplier if vacuum is poor or voltage is over 2600 V



Triple axis electron multiplier, G3170-80103

## MSD Electron Multipliers and Replacement Horn

Description	7000A Series	7000B/C Series	5975 Series	5973 Series	5977 Series
Electron multiplier replacement horn Use with electron multipliers with "straight" horns			05971-80103	05971-80103	
Triple axis detector assembly*	G3170-80100		G3170-80100		G3170-80100
Triple axis electron multiplier	G3170-80103	G3170-80103	G3170-80103		G3170-80103
EM signal wire, low noise detector			G3170-80008		G3170-80008

\*Included on 5975 triple axis detector systems

### TIPS & TOOLS

The Agilent multipliers and horns listed are recommended for your MSD. Other manufacturers' products may be incompatible with Agilent instruments and can result in reduced sensitivity, lifetime, and noise problems.

