

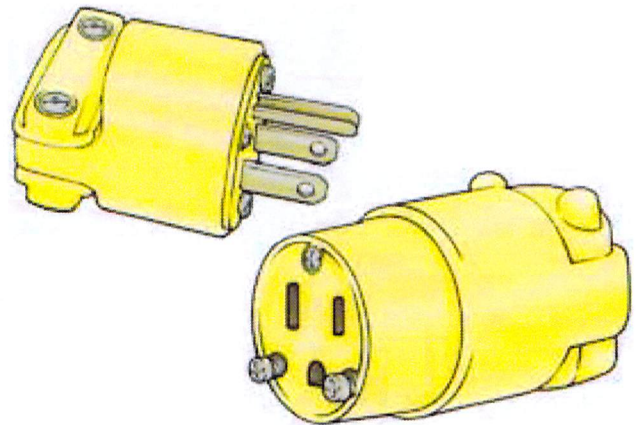
## Electrical power tools and cords

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All electrical equipment should be checked to ensure they are CSA approved. However, use of approved equipment does not eliminate all dangers if the equipment is damaged or is used in adverse conditions, such as in rain or wet areas. Cord-connected portable equipment and supply cords must be maintained in good repair and be suitable for each condition of use. For example, the outer jacket of a cab-tire cord may appear undamaged but may conceal a broken ground conductor. Also, most electrical equipment manufacturers specify that their equipment should not be used in damp or wet conditions. Class A type ground fault circuit interrupters (GFCI) must be used for portable electrical equipment when working outside or in wet or damp conditions.

### Safe work procedures

- Inspect tools, power cords, and electrical fittings for damage prior to each use. Repair or replace damaged equipment.
- Switch tools off before connecting to a power supply.
- Disconnect the power supply before making adjustments.
- Make sure tools are either properly grounded or the double-insulated type. Grounded tools must have a 3-wire cord with a 3-prong plug. This plug must be plugged into a properly grounded 3-pole outlet.
- Do not break off the third (ground) prong on a plug.
- Test electrical tools and cords for effective grounding with a continuity tester before use.
- Replace open front plugs with dead front plugs, which are sealed and pose less danger of electric shock or short circuit (see above diagram).
- Do not bypass the tool ON/OFF switch by connecting and disconnecting the power cord.
- Suspend power cords over walkways or working areas wherever possible to eliminate tripping hazards.
- Do not use extension cords as permanent wiring. They must only be used to temporarily supply power to an area that does not have a power outlet.
- Do not allow vehicles or equipment to pass over unprotected power cords. Cords should be put in electrical conduit or protected by placing them between two pieces of lumber of suitable strength.
- Keep power cords away from heat, water, and oil.



*Extension cord plugs must not have an open front, and must be a three-prong type.*

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- Do not use light-duty power cords for heavy load applications.
  - Do not carry electrical tools by the power cord.
  - Do not disconnect the power supply by pulling or jerking the cord from the outlet. Pulling the cord rather than the plug may result in electric shock.
  - Do not tie knots in power cords. Knots can cause short circuits and electric shocks. Loop the cords or use a twist lock plug.
  - Do not clean tools with flammable solvents.
  - Do not operate electrical tools in an area containing high levels of explosive vapours or gases.
  - Do not overload the circuit by plugging several power cords into one outlet.