

## Fluorescent ballast wiring diagrams





very important. Grounding is usually automatic if the light fixture is grounded properly. A ground wire from the power source should be connected to a light fixture. A metal ballast mounted to the metal light fixture will automatically ground the ballast. If a ballast has a ground terminal on it, a ground wire should be connected to it. Rapid Start Wiring 1 to 3 Lamps. Rapid Start Wiring 4 Lamps. Fluorescent Lampholder Wiring. Instant Start Lampholder Wiring. Rapid Start Lampholder Wiring 2 and 4 Lamps. Rapid Start Lampholder Wiring 3 Lamps. Swap Terminals on Non- Shunted Lampholders. Question or Comment? Bulb vs Lamp Electricians usually refer to a light bulb as a lamp. Individual vs Common

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Ballast Wires Individual ballast wires each connect to a lampholder on one side of each tube. Ballast Wiring. Ballast Wire Colors Wire colors for individual and common connections on fluorescent ballasts will vary depending on ballast type, brand, and the number of lamps they support. Magnetic vs Electronic Ballasts Older magnetic fluorescent ballasts are usually rapid start and wired in series. Rapid Start vs Instant Start Ballasts When a rapid start ballast wired in series operates multiple lamps and one lamp fails, the circuit is opened and the other lamps will not light. Rapid start ballasts can only be wired in series according to the diagram on the ballast. Instant start ballasts can only be wired in parallel according to the diagram on the ballast. Changing the wiring on a fluorescent light fixture from rapid start to instant start, involves changing the wiring from series to parallel. Wired in series. Wired in parallel. Grounding a Ballast Grounding a ballast is very important.