

Flourescent lighting grows softer

(AP) — A fluorescent light bulb generates about four times as much light per wat as a standard incandescent light bulb. This makes fluorescents by far the most economical light source for the home today.

Once used only in kitchens and workplaces because of their harsh light, todays fluorescents produce light in a wide range of whites and colors. Bulbs come in many chapes and eizes with accket pins to fit fluorescent fixtures or screw-type bases to replace incandescent bulbs.

Because of the power surge needed to start a fluorescent, frequent turning on and off of a fixture wastes power and chortens tube life. When leaving no more about time, it is usually best to leave the lamp on.

The ordinary fluorescent fixture consists of a bulb and a ballast in a metal channel. The bulb is an airtight glass tube with cathods — metal conductors of electricity at either end. It bolds argon gas and morcury vapor and the interior is costed with phesphor, a substance that can be electrically stimulated to entit light. The ballast is a transformer that boosts 120-volt house current to the toosts 120-volt house current to the soots 120-volt hous

oresce."
Older fixtures (and many small modern ones) have a separate, small, silver-color, cylinder-shaped starter built into the fixture to preheat the

Another fluorescent fixture is an in-stant-start style preferred by indus-trial users for its low maintenance. However, bulb life is only about 9,000

However, bulb life is only about 9,000 hours.

In contrast, most homes have repideater fixtures whose bulbs may last 20,000 hours. As the name implies, the instant start goes on immediately; the rapid-start flickers for two or three seconds before lighting completely. The older starter-types take 16 to 20 seconds to light properly. Fluorescent bulbs give off less light at temperatures below 50 degrees. If the fixture is to be located in an unbeated garge or hosement, install a cold-rated ballast.

The light output of fluorescent bulbs decreases with time.

Blackening at the ends of a tube means that it's worn out; replace it. If only one end of the tube is discolored, remove it, turn it over, and reinstall it. Replace an old or burned out bulb with a new one of the same type (double-pin right-pin), length and wattage.

Double-pin rapid-start and older

ble-pin or single-pin), length and wattage.

Double-pin rapid-start and older
starter-type bulbs are interchangeabile. Instant-start bulbs have single
pins. If the bulb is missing from a fixture, check the ballast to find the
right size.

Dispose of old bulbs carefully. The
gases and phosphor aren't poisonous,
but the bulb may explode if broken,
sending glass fragments flying. Never
throw a fluorescent bulb into a fire or
incincrator.
Fluorescent problems are rare and

Fluorescent problems are rare and sually easy to fix. A starter is inex-

pensive to replace, but a ballast costa so much that when one fails, it's often more economical to buy a new fittire. If a fluorescent lamp fails to light, check for a blown fuse or tripped cir-cuit breaker in the main panel. If the tube still doesn't light or if it flickers or blinks, turn off power to the fixture and twist the tube slightly back and forth to make sure it's firmly seated in the sockets. If that doesn't work give the tube a

in the sockets.

If that doesn's work, give the tube a quarter turn toward you and pull it out, handling it carefully. Use longness pliers to streighten a bent tube plin. Spray the socket contacts and the plins with electric contact cleans. Clean a dirty tube with a damp cloth; let it dry before reinstalling it. Tighten the sockets acrews; replace broken sockets.

To reinstell the contact the contact of the contact and the pline with the contact cleans.

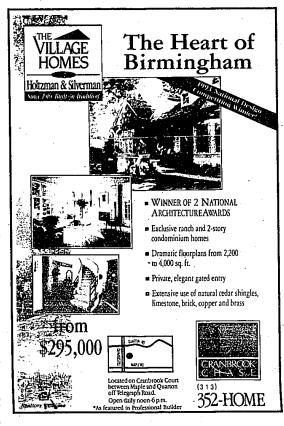
sockets.

To reinstall the tube, line up the pins with the socket slots, push the tube in, and give it a quarter turn. Still no light? Install a new tube of the same wattage and type. A new tube may flicker for an hour or two at first. If flickering lasts longer or if the new tube doeant! light, replace the starter with a new one of the same wattage. Rapid- and instant-start fixtures don't have starters.

If the ends of a tube glow but the center does not, replace the starter. If the lamp still doesn't work, hums loudly, or repeatedly blows a fuse on a circuit that lan't overloaded, the ballast may be defective.

Replace the ballast with a new one of the same type and wattage or with a low-noise type: or replace the fixture.

Let there be light: Once reserved for only kitchens and basement workshops, fluorescent lighting has adapted designer features and can be seen through-out new houses. This bathroom in a model at Meadowbrook subdivision in Canton combines natural lighting with overhead soffit lighting to create a warm effect.





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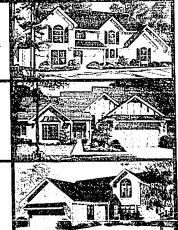
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