7-Way RV Trailer Plug Guide
from AJ's Truck & Trailer Center

It's the dreaded 7-Way RV plug that we all have come
to know and love. Most new vehicles equipped with
a tow package have connectors. Trailers with electric
brakes need them too. The 7-Way Trailer Plug is a
round 2" diameter connector that allows an
additional pin for an auxiliary 12-volt power or
backup lights. It is usually used for towing a
heavy-duty landscaping trailer, car trailer, boat
trailer, horse trailer, travel trailer, construction trailer,
and larger trailers.

Here at AJ's, we are all too familiar with the accidents
people have with the plugs; forgetting to unplug
and pulling away, dragging it on the ground. With all
the abuse and day-to-day wear and tear, you may
find yourself repairing or replacing one sooner or
later.

If you've ever looked at a 7-Way RV Trailer Connector,
you have probably stood there scratching your head
in confusion. We are going to do our best to simplify
that, mainly with a good, color coded diagram.
Download this guide, print it and keep it in your
toolbox for future reference.

When referencing the 7-Way RV Plug diagram, make
sure you are looking at the plug the way the diagram
is showing you. Having the wires backwards will
cause problems. Keep in mind that it isn't always as
simple as matching the colors like you might be
inclined to do. Match the functions, not the colors.
Make sure your ground wire, which is typically white,
is securely attached to the frame on both the truck
and trailer side. The ground wire should be large
enough to handle the entire load, do not depend on
grounding through the ball.

Grease your trailer plug. A thin coat of grease will
help prevent copper oxide from building up. That is
the green stuff that forms when oxygen from the air
or water come in contact with copper. You may thing
the rubber caps protect the plug but they tend to
hold the water in.

If your brake lights work, or your marker lights work,
but nothing works when you turn on both at the
same time, your trailer is not grounded to the truck.
So, if you step on the brakes and all the trailer lights
go out, then you need to ground your trailer to your
truck with the ground wire.

Don't hesitate to call us if you ever get into a bind.
We are here to help, don't feel bad; we have all been
there at one point or another.

Best of luck and happy towing to you!

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