59307A DRIVER

The purpose of this Driver is to control the 59307 relay boxes in the
TODS system. The Driver is setup to control three or four units. The
Driver is an assembly language program that is BASIC callable. There
is a function call and an individual unit call incorporated in the
Driver. See the Programming Section for a description of the calls.

The purpose of the 59307 relay boxes in the system is to provide some
coaxial switching capability from UUT (Unit Under Test) to test instru-
ments. With three units in a system the switching is set up to connect
a test instrument up to the UUT. One of up to four instruments can be
connected to the UUT by a pair of leads. The pair can then be switched
individually to different points on the UUT.

One of the pair can be switched to 10 different positions and the other
can be switched to 4 different positions. If there are 4 switch units
in the system the switching is arranged to allow instruments to be
connected to the UUT in some applications. See the Programming Section
for switching details.

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PROGRAMMING

Programming is accomplished with a BASIC call containing 3 variables.
The first variable is used to designate a test instrument hookup or
to designate an individual switching unit to be switched. The second
and third variables are used to give switch positions. See Drawing
B-ET9500-97005-2 for unit and instrument connections.

Program call example:

100 PSW (U,S,G)

Where

$U => 1$ and $U <= 4$ to switch unit 1
A and B to the value of U.
Also designates variables S,
G to be used to determine
switch positions of unit 2
and 3

$=> 11$ and $U <= 14$ to switch unit
(U-10) to positions indicated
by S for switch A, G for
switch B   *U - 10 = Unit*

$S => 1$ and $S <= 10$ if U is 1-4
switch units 2 and 3, switch
A and B to connect unit 1
terminal A to point 1-10 as
called out on Drawing Number
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$=$ Terminal A switch of unit
called out by U variable if
$U = 11-14$

$G => 1$ and $G <= 4$ if U is 1-4 unit
3 terminal B is switched to
value of G

$=> 1$ and $G <= 4$ if U is 11-14
the unit indicated by U
terminal B is switched to
value of G

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