

PENGO GALAXIAN

1. Cut track to 8E Pin 5 and link track to 8E Pin 6.
2. Cut track to 8L Pin 5 and link Pin 5 of 8L to 8E Pin 3.
3. Cut track to 2N Pin 6.
4. Piggy back a 2114s on 7N and 7P, leaving Pin 8 disconnected.
5. Piggy back a 74LS139 on top of 8N connecting Pins 8 and 16 only.

Connect piggybacked 74LS139 as follows:-

Pin 1 to GND.

Pin 2 to Pin 19 of any prom socket (A10).

Pin 3 to 2N pin 6.

Pin 4 to 7N and 7P pin 8.

Pin 5 to piggybacked 2114's.

Pin 15 to 8E pin 5.

Pin 14 to 8P pin 1 (A11).

Pin 13 to GND.

6. Fit proms 1 - 8 in normal positions.
7. Fit proms 9 and 10 into any convenient place and connect pins 18 and 20 of prom 9 to piggybacked 139 pin 12.
Connect pins 18 and 20 of prom 10 to piggybacked 139 pin 11.
Ensure that pin 21 of proms 9 and 10 are connected to +5.

CHARACTERS

1. If 2732's cut track to pin 21 of prom sockets and connect to 4A pin 11.
2. If 2532 cut track to pin 18 and connect to 4A pin 11.