

# Project Jenny Bus Design

|              |    |     |   |              |      |                           |        |
|--------------|----|-----|---|--------------|------|---------------------------|--------|
|              |    |     |   |              |      | Gap                       | 250    |
| --- FREE --- | 1  | O O | A | --- FREE --- | 2x4  |                           | 400    |
| AN0          | 2  | O O | B | AN1          |      | AN Bus                    |        |
| AN2          | 3  | O O | C | FPH0         |      | Fast Clock                |        |
| PH0          | 4  | O O | D | PH1          |      | Unbuffered Clocks         |        |
|              |    |     |   |              |      | Gap                       | 300    |
| SYNC         | 1  | O O | A | /NMI         | 2x13 | Missing CPU Signals       | 1300   |
| /D0xx        | 2  | O O | B | /CI          |      | I/O / MMU Signals         |        |
| /D2xx        | 3  | O O | C | /D3xx        |      |                           |        |
| /D4xx        | 4  | O O | D | /D5xx        |      |                           |        |
| /D6xx        | 5  | O O | E | /D7xx        |      |                           |        |
| /BASIC       | 6  | O O | F | /OS          |      |                           |        |
| REN   PB0    | 7  | O O | H | PB1   /BE    |      |                           |        |
| PB2          | 8  | O O | J | PB3          |      |                           |        |
| PB4          | 9  | O O | K | PB5          |      |                           |        |
| PB6          | 10 | O O | L | PB7   /MAP   |      |                           |        |
| POKEY LEFT   | 11 | O O | M | POKEY RIGHT  |      | Audio Signals             |        |
| GTIA BUZZER  | 12 | O O | N | +12V         |      | Copy of +12V              |        |
| --- FREE --- | 13 | O O | P | --- FREE --- |      |                           |        |
|              |    |     |   |              |      | Gap (room for cart shell) | 800    |
| /S4          | 1  | O O | A | RD4          | 2x15 | Cartridge port            | 1500   |
| A3           | 2  | O O | B | GND          |      |                           |        |
| A2           | 3  | O O | C | A4           |      |                           |        |
| A1           | 4  | O O | D | A5           |      |                           |        |
| A0           | 5  | O O | E | A6           |      |                           |        |
| D4           | 6  | O O | F | A7           |      |                           |        |
| D5           | 7  | O O | H | A8           |      |                           |        |
| D2           | 8  | O O | J | A9           |      |                           |        |
| D1           | 9  | O O | K | A12          |      |                           |        |
| D0           | 10 | O O | L | D3           |      |                           |        |
| D6           | 11 | O O | M | D7           |      |                           |        |
| /S5          | 12 | O O | N | A11          |      |                           |        |
| +5V          | 13 | O O | P | A10          |      |                           |        |
| RD5          | 14 | O O | R | R/W          |      |                           |        |
| /CCTL        | 15 | O O | S | BPH2         |      |                           |        |
|              |    |     |   |              |      | Gap by CART/ECI spec      | 900    |
| /EXT         | 1  | O O | A | RESERVED     | 2x7  | ECI                       | 700    |
| /RST         | 2  | O O | B | /IRQ         |      |                           |        |
| /D1xx        | 3  | O O | C | /HALT        |      |                           |        |
| /MPD         | 4  | O O | D | A13          |      |                           |        |
| ECI AUDIO IN | 5  | O O | E | A14          |      |                           |        |
| /REF         | 6  | O O | F | A15          |      |                           |        |
| +5V          | 7  | O O | H | GND          |      |                           |        |
|              |    |     |   |              |      | Gap                       | 800    |
| CLOCK IN     | 1  | O O | A | CLOCK OUT    | 2x6  | SIO Bus                   | 600    |
| DATA IN      | 2  | O O | B | DATA OUT     |      |                           |        |
| COMMAND      | 3  | O O | C | MOTOR        |      |                           |        |
| PROCEED      | 4  | O O | D | INTERRUPT    |      |                           |        |
| GND          | 5  | O O | E | +5V          |      |                           |        |
| AUDIO IN     | 6  | O O | F | +12V         |      |                           |        |
|              |    |     |   |              |      | Gap                       | 250    |
|              |    |     |   |              |      | TOTAL (in mil)            | 7800   |
|              |    |     |   |              |      | TOTAL (in cm)             | 19.812 |