

# Arm connector Pin assignments 4-22-83

| Pin # | colour                    | gauge | connects to  |
|-------|---------------------------|-------|--|
| 1     | Red                       | 20    | Elbow motor +  |
| 2     | Black                     | 20    | Elbow motor -  |
| 3     | Orange                    | 20    | Elbow end switch - top side                          |
| 4     | Orange                    | 20    | Elbow end switch - top side                          |
| 5     | Green                     | 20    | Elbow end switch - bottom side                       |
| 6     | Green                     | 20    | Elbow end switch - bottom side                       |
| 7     | Red                       | 22    | Wrist motor +  |
| 8     | Black                     | 22    | Wrist motor -  |
| 9     | Yellow                    | 22    | Wrist end switch Front (CW <sup>facing front</sup> ) |
| 10    | Yellow                    | 22    | Wrist end switch Front (CW <sup>facing front</sup> ) |
| 11    | Green                     | 22    | Wrist end switch Rear (CCW <sup>facing front</sup> ) |
| 12    | Green                     | 22    | Wrist end switch Rear (CCW <sup>facing front</sup> ) |
| 13    | White<br>Blue & Black Tr  | 22    | Hand motor + (#1 on wrist connector)                 |
| 14    | White<br>Black & Black Tr | 22    | Hand motor - (#2 on wrist connector)                 |
| 15    | Red                       | 30    | + 5V sensor (#3 & + side of all sensors)             |
| 16    | Black                     | 30    | Gnd. (Logic) (#4 & all sensors)                      |
| 17    | Green                     | 30    | Elbow sensor   |
| 18    | Gray                      | 30    | Wrist sensor   |
| 19    | Yellow                    | 30    | Hand sensor (#5 on wrist connector)                  |
| 20    | Orange                    | 30    | Hand Micro switch (#6 - goes low when closed)        |
| 21    | Blue                      | 30    | #7 on wrist connector                                |
| 22    | Brown                     | 30    | Spare  |
| 23    | White                     | 30    | Spare  |
| 24    | Brown                     | 30    | Bicep sensor (Does not go through tube)              |