

EXHIBIT 2

SCHEMATICS

Crane Chief I Transmitter

Circuit Functional Description

Crane Chief I is a radio remote control link operating in the 433-434 MHz band. Up to eight different functions, each with two speed settings can be activated.

Referring to the schematic IC6 is a microcomputer that performs the essential control processing and data encoding functions. The actual radio transmitter and modulator are contained in the radio module that plugs in at P2. The antenna is a self-contained, $\frac{1}{4}$ wavelength wire.

Selector switches SW1 through SW3 perform the following functions:

SW1 and SW2 – select the transmit code that must be the same as the receiver code.

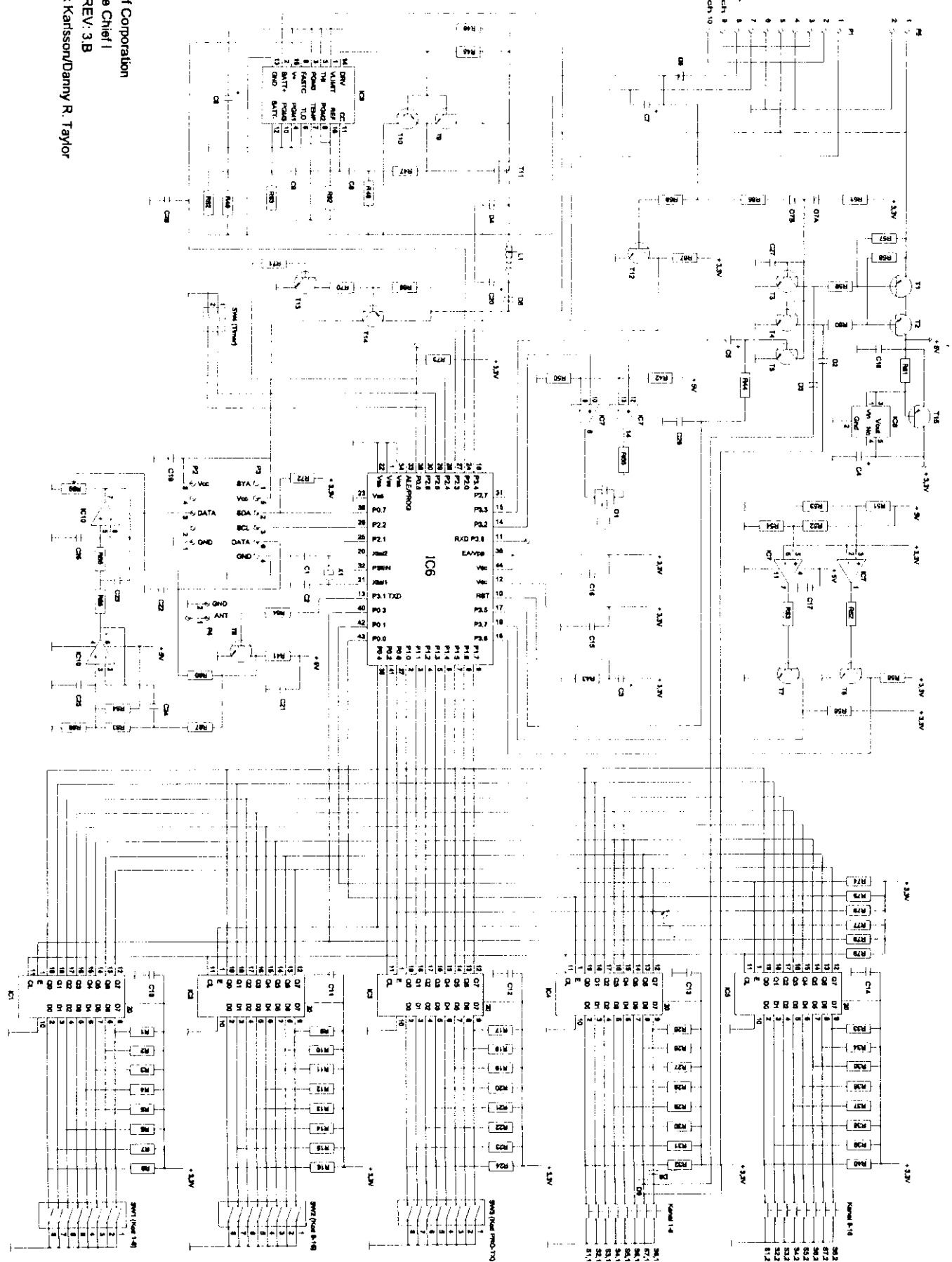
SW3 is not used in this model, but reserved for frequency selection in a future model.

The switches on the output side of IC4 and IC5 are keypad pushbutton switches that control the activation of the 8 different functions and the two speeds (per function).

When a transmission is initiated, the 16-bit code from the selector switches SW1 and SW2 is first transmitted. This is followed by the function code for one of eight functions and one of two speeds, depending on which of the keypad buttons is pushed. Normally the transmission is pulsed repetitively until the keypad button is released. The keypad push-button switches are actually three position switches that select High, Low or Off.

At the receiver the appropriate relay will be activated continuously until the transmitter button is released.

- E-STOP 1
- E-STOP 2
- E-STOP 3
- E-STOP 4
- E-STOP 5
- Batt - 6
- Batt - 7
- Charge - 8
- Key Switch 9
- Key Switch 10



Control Chief Corporation
 Model: Crane Chief I
 Transmitter REV: 3.B
 REF: Fredrik Karlsson/Danny R. Taylor
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