

HYDROMOBILE



ELECTRONIC JOY STICK CONTROL FOR CHERRY PICKERS



SE.MNC... NOT SIMULTANEOUS MOVEMENT ELECTRONIC CARD

The SE.MNC... electronic control card is fitted with one or two proportional outputs with current feedback for valve control [XQP3, CXQ3] and numerous on/off outputs for controlling the solenoid in directional valves. The overall functional logic enables simultaneous control of a single proportional output, one of the 5 on/off directional valves and a dump valve within the hydraulic circuit. The electronic card is fitted with an electric safety control [operator present signal]: the current outputs are only enabled if the operator present signal is on. The card is compatible with the JC.5 series joystick.

CALIBRATION PROCEDURE

POWER SUPPLY AND WIRING

The card power supply can be protected by means of a 15A fuse. 0.75mm² or 1mm² gauge electrical wire should be used for the connections.

PROPORTIONAL OUTPUT ADJUSTMENT

The standard version card is fitted with an adjustment trimmer, which can be accessed by removing the top of the casing.

Each PWM output is fitted with trimmers for minimum current adjustment [Imin], current gain and ramp up/down.

MINIMUM CURRENT ADJUSTMENT

Minimum current helps overcome valve overlap and increases the sensitivity of the joystick on the proportional valve opening. Minimum current value can be adjusted to between 0% and 50% of the maximum current. To

increase the minimum current value, turn the Imin trimmer in a clockwise direction.

CURRENT GAIN ADJUSTMENT

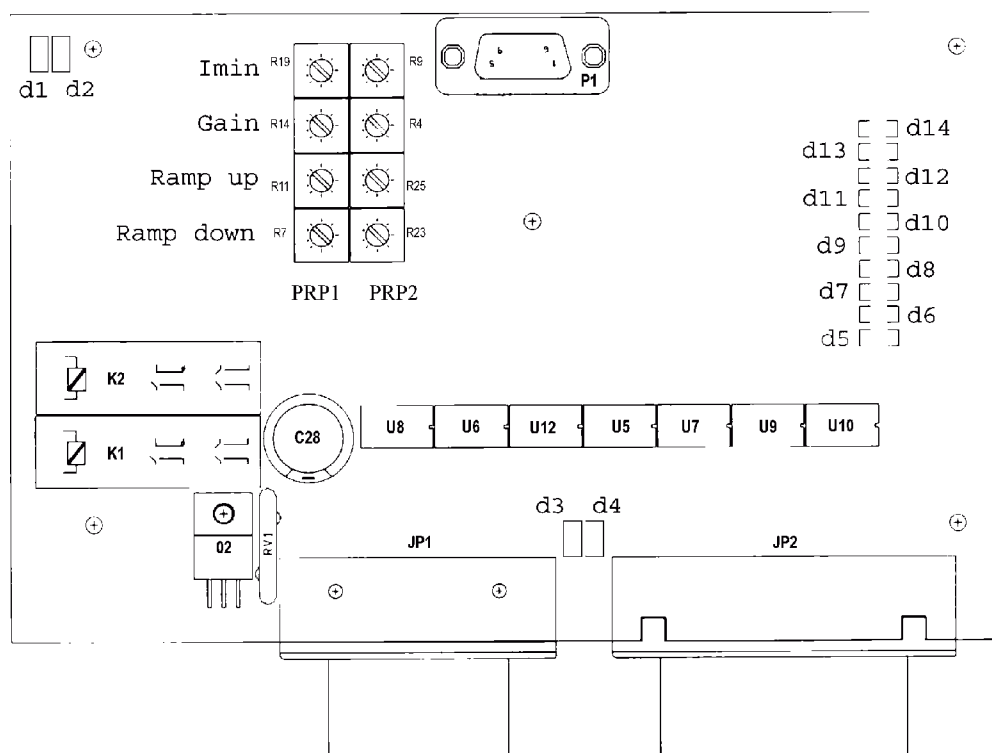
Current gain allows the actuator's maximum speed to be adjusted according to the maximum value of the analogue signal [10v]. Current gain can be adjusted to between 50% and 100% of the maximum current. To reduce the gain value, turn the min trimmer in

an anticlockwise direction.

RAMP TIME ADJUSTMENT

The ramp time is the time taken to pass from the minimum to the maximum current value, and vice versa. It's adjustable from a minimum of 0s up to a maximum of 20s. To increase the ramp time, turn the trimmer in a clockwise direction.

TOPOGRAPHICAL LAYOUT



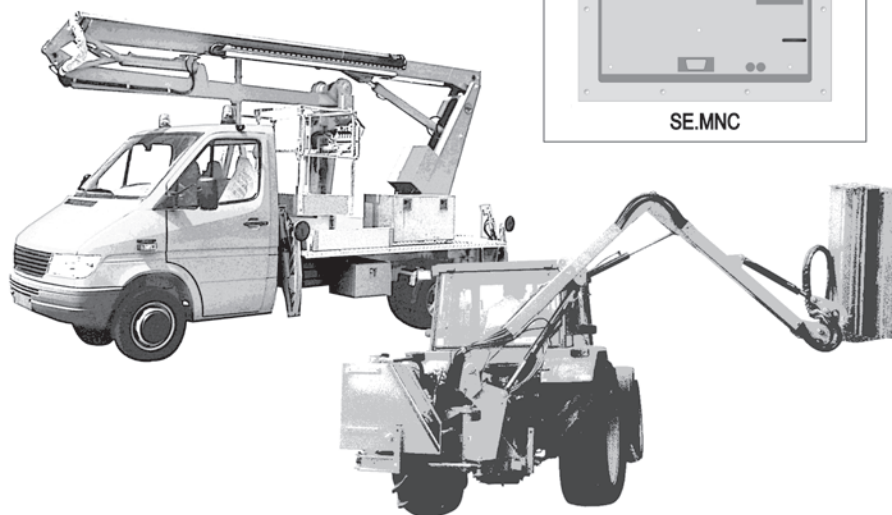
ORDERING CODE

- SE** Electronic card
- MNC** For not simultaneous movement
- AL** Aluminium box case IP67
- ***** Valve adjustment
12F = 12V - 1.76A
24G = 24V - 0.88A
- *** Proportional flow regulators
1 = one regulator
2 = two regulators
- 0** No variant
- 1** Serial No.



TYPICAL CONNECTIONS

- The common return of the proportional valve must be exclusively connected to the contact on the card connector; this contact must not be connected or shared with other earth connections or with other electronic devices.
- The common return of the directional control valves and dump valve must be connected directly to the negative battery terminal.



Should you require any further information please do not hesitate to contact us.

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