



KTM-600 CIRCUIT BOARD INSTRUCTION SHEET

PRIMING

- (1) Locate the dip-switch pack on the circuit board and set switch #6 to RELAY.
- (2) Press and hold the Start button until the chemical line is fully primed, then release the button.
- (3) Set switch #6 to SIGNAL (unless you intend to use relay mode).

PROGRAMMING

Pump Run Time: (max run time: 12 min and 42 sec)

- (1) Locate the dip-switch pack on the circuit board. Set switch #6 to SIGNAL, set switch #7 to RUN TIME and set switch #8 to PROGRAM MODE.
- (2) Using a measuring cup or flask, press Start switch and release when pump starts. Let the pump run until desired amount of chemical is dispensed then press Start switch again to stop. The run time is now programmed.
- (3) Set mode switch #8 to RUN MODE.

Delay Time: (max delay time: 12 min and 42 sec)

- (1) Locate the dip-switch pack on the circuit board. Set switch #6 to SIGNAL, set switch #7 to DELAY TIME and set switch #8 to PROGRAM MODE.
- (2) Press Start switch and release when the LED begins flashing. When the desired delay time has passed, press the Start switch again. The One Shot delay time is now programmed. Repeat step if new delay time is required.
- (3) Set mode switch #8 to RUN MODE.

Lock-Out Time: (max lock-out time is 31 minutes)

This feature defeats consecutive dispensing of product for a pre-determined interval. Select a combination of switches 1 – 5 to program total lock-out time.

Example: For 10 minute lock-out, set switches #2 and #4 to ON with all other switches OFF.

- For maximum lock-out (31 min) set all switches ON.
- For no lock-out, set all switches OFF.

OPERATION

Manual activation: Press the Start button on the cover or on the remote switch box for 1 full second. The KTM-600 will begin counting down the delay time (if used) and will then run the pump for the amount of time programmed. Once the lock-out time expires the pump will be ready to restart.

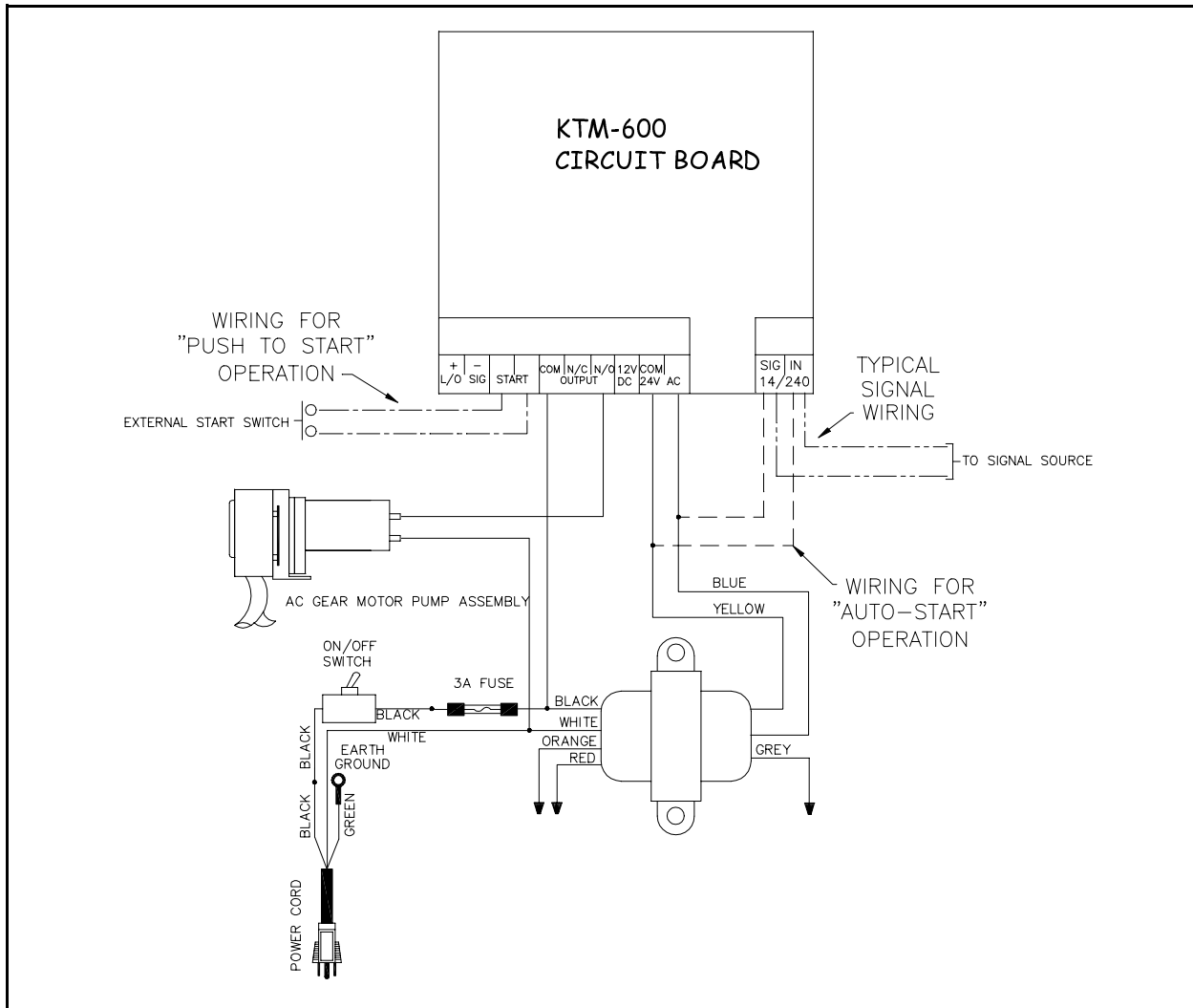
Signal activation: When the signal input on the circuit board (wiring diagram on back page) receives a 14-240 VAC trigger signal for at least 5 full seconds, the delay time (if used) will begin counting down. Then the pump will run for the amount of time programmed. Once the lock-out time expires the pump will be ready to restart.

Relay Mode: Set switch #6 to RELAY. The pump will activate for as long as an external trigger signal is present, or for as long as the manual button is depressed. All other board functions (such as delay time and lock-out time) are by-passed in relay mode.

DISABLING THE START BUTTON

There is a jumper marked "JP1" on the circuit board that can be used to prevent manual activation in certain applications, or to allow manual activation by remote push-button only. This jumper only affects the on-board start button. A remote start button, or trigger signal, can always be used to activate the pump.

- Jumper ON: the on-board start button is functional.
- Jumper OFF: the on-board start button is disabled.



DISCLAIMER

Knight Inc. does not accept responsibility for the mishandling, misuse, or non-performance of the described items when used for purposes other than those specified in the instructions. For hazardous materials information consult label, MSDS, or Knight Inc.

WARRANTY

All Knight controls and pump systems are warranted against defects in material and workmanship for a period of ONE year. All electronic control boards have a TWO year warranty. Warranty applies only to the replacement or repair of such parts when returned to factory with a Knight Return Authorization (KRA) number, freight prepaid, and found to be defective upon factory authorized inspection. Bearings and pump seals or rubber and synthetic rubber parts such as "O" rings, diaphragms, squeeze tubing, and gaskets are considered expendable and are not covered under warranty. Warranty does not cover liability resulting from performance of this equipment nor the labor to replace this equipment. Product abuse or misuse voids warranty.

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