

MGI 7 KEY REMOTE CONTROL USERS MANUAL



FIG 1.
MGI 7 KEY REMOTE CONTROL
TOP LABEL SET LAYOUT

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Ref Fig 1.

KEY FUNCTIONS

- 'NAV ON'** : Used to turn ON the buggies navigation system. When pressed, the transmit indicator will light GREEN. The remote control will remember that the buggy is in Nav ON mode and subsequent key presses of Increase Speed, Turn Left, Decrease Speed, Turn Right or STOP will also cause the transmit indicator to light green. The buggy, upon reception of each command, will respond in NAV ON mode.
- 'NAV OFF'** : Used to turn OFF the buggies navigation system. When pressed, the transmit indicator will light RED. The remote control will remember that the buggy is in Nav OFF mode and subsequent key presses of Increase Speed, Turn Left, Decrease Speed, Turn Right or STOP will also cause the transmit indicator to light red. The buggy, upon reception of each command, will respond in NAV OFF mode.
- 'INCREASE SPEED'** : Located between the 'NAV ON' and 'NAV OFF' keys. Used to increase the buggy speed. When pressed, the transmit indicator will light according to the current buggy operation mode. If the buggy was stopped and in 'Nav ON' mode, a reference heading reading is taken prior to starting the buggy. The buggy speed will increase towards its maximum speed as long as the 'INCREASE SPEED' command is received. If the buggy is at maximum speed, further 'INCREASE SPEED' commands are ignored. If the buggy is in NAV ON mode, navigation will commence or resume when the 'INCREASE SPEED' key is released or the buggy is at maximum speed. In 'NAV OFF' mode the operation of the 'INCREASE SPEED' function is the same as above except that navigation correction is disabled. The rate at which the buggy speed increases is determined by the 'Remote Acceleration Rate' programmed into the buggy controller. Refer to the buggy instruction manual for details on this feature.
- 'DECREASE SPEED'** : Located directly below the 'INCREASE SPEED' key. Used to decrease the buggy speed. When pressed, the transmit indicator will light according to the current buggy operation mode. If the buggy was stopped, no action is taken, otherwise, the buggy speed will decrease towards zero, stopped, as long as the 'DECREASE SPEED' command is received. If the buggy is in NAV ON mode, the navigation reference heading, recorded prior to the reception of the 'DECREASE SPEED' command, is retained. Navigation will resume when the 'DECREASE SPEED' key is released provided the buggy is not stopped. In 'NAV OFF' mode the operation of the 'DECREASE SPEED' function is the same as above except that navigation correction is disabled. If, during the reception of the 'DECREASE SPEED' command, the buggy motor drive reduces to zero, braking is applied to both motors as in 'STOP' mode. The rate at which the buggy speed decreases is determined by the 'Remote Acceleration Rate' programmed into the buggy controller. Refer to the buggy instruction manual for details on this feature.

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KEY FUNCTIONS

- 'TURN LEFT'** : Located directly below the 'NAV ON' key.
Used to turn the buggy left. When pressed, the transmit indicator will light according to the current buggy operation mode. If the buggy was stopped, the buggy will accelerate left towards maximum speed as long as the 'TURN LEFT' command is received and then proceed forward at approximately 25% maximum speed. If the buggy was moving at less the full speed, the left motor is braked and the current speed is maintained in the right motor for the first 0.75 seconds then, if the 'TURN LEFT' command is still active, the right motor speed is accelerated towards maximum and held at maximum until the 'TURN LEFT' command is no longer received when the buggy will resume at its original forward speed. If the buggy was operating at full speed, the left motor is braked and the right motor speed is maintained until the 'TURN LEFT' command is no longer received when the buggy will resume at maximum forward speed. If the buggy is in NAV ON mode, a new navigation reference heading is recorded after the buggy turn is completed and navigation on the new course will commence. In 'NAV OFF' mode, the operation of the 'TURN LEFT' function is the same as above except that navigation correction is disabled.
- 'TURN RIGHT'** : Located directly below the 'NAV OFF' key.
Used to turn the buggy right. When pressed, the transmit indicator will light according to the current buggy operation mode. If the buggy was stopped, the buggy will accelerate right towards maximum speed as long as the 'TURN RIGHT' command is received and then proceed forward at approximately 25% maximum speed. If the buggy was moving at less the full speed, the right motor is braked and the current speed is maintained in the left motor for the first 0.75 seconds then, if the 'TURN RIGHT' command is still active, the left motor speed is accelerated towards maximum and held at maximum until the 'TURN RIGHT' command is no longer received when the buggy will resume at its original forward speed. If the buggy was operating at full speed, the right motor is braked and the left motor speed is maintained until the 'TURN RIGHT' command is no longer received when the buggy will resume at maximum forward speed. If the buggy is in NAV ON mode, a new navigation reference heading is recorded after the buggy turn is completed and navigation on the new course will commence. In 'NAV OFF' mode, the operation of the 'TURN RIGHT' function is the same as above except that navigation correction is disabled.
- 'STOP'** :
Used to stop the buggy. When pressed, the transmit indicator will light according to the current buggy operation mode. If the buggy was stopped, no action is taken, otherwise the buggy is stopped and braking is applied to both left and right motors. Operation of the 'STOP' key is the same in NAV ON or NAV OFF modes.