

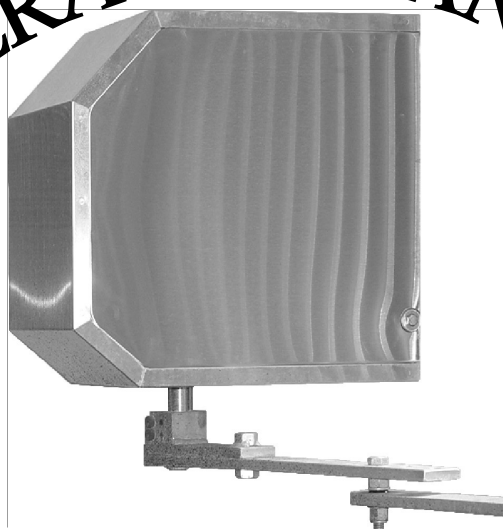


MAGIC BUTTON

PK50 INVERTER CONTROLLED

FAST SWING

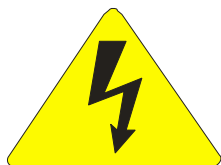
OPERATOR MANUAL



FEATURES

- * 240v Power Supply.
- * Inverter motor control.
- * Adjustable soft start, speed and slow down.
- * Suitable for gates up to 6 metres.
- * Emergency disconnect.
- * Safety – the PK50 in-built Clutch offers excellent “last resort” safety.
- * Corrosion resistant - hot Dip galvanised base with stainless steel cover.
- * Exclusive use of Magic Button logic control for Superior operation and functionality.

WARNING



This equipment requires installation by persons with appropriate electrical qualifications and training and must be wired in accordance to AS/NZ 3000 wiring rules.





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Magic Button Performance PK50 Motors

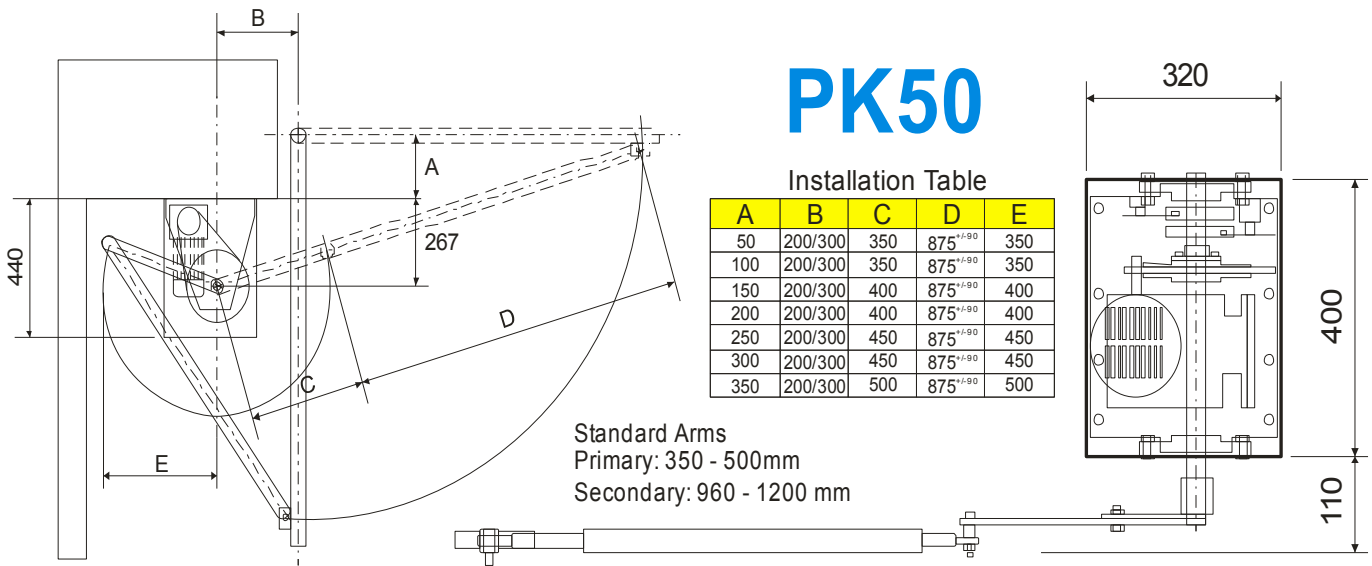


Fig : 1

TECHNICAL SPECIFICATIONS			
Power supply	240v	Gear box ratio	1:100
Current draw	4.5 amps	Housing protection	IP55
Duty cycle	100%	Temperature range	-20°C to + 55°C
Gate width	6m	Operator weight	58kg
Speed 90° Opening	Approx. 8 sec to 4m wide and 12 sec to 6m wide.		

IMPORTANT NOTES:

1. The operating parameters of the motor is dependent upon wind loadings affecting the gate. Motor specifications are correct for calm conditions only.
2. Gate locks or lock magnets are recommended on all gates wider than 2.5m.
3. Appropriately engineered stops suitable to the application Must be installed in BOTH the open and close positions.
4. Appropriate photo electric or other safety devices MUST be fitted to comply with a prudent risk assessment of the operation.
5. Liftmaster Electronics is not responsible for the failure to observe good technique in the construction of the structure to be motorised, or any deformation that may occur during use.

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BEFORE MOTORISATION

All gates must have appropriately engineered gate stops fitted by the supplier of the gate. Before commencement of any installation, the gate must be carefully operated manually, taking into account wind loading that could be acting upon the gate leaf. The gate leaf **MUST** have a smooth operation and be of adequate gate frame manufacture with hinges appropriate for the application of drive motors.

As a minimum, the appropriate photo electric safety devices **MUST be fitted as well as any other safety devices necessary to comply with a prudent risk assessment of the operation.**

INSTALLATION

The operators can be mounted on a gate pillar, wall or separate pillar. The position of the mount plate and the associated length of gate push arm is of paramount importance to provide a smooth harmonic operation.

The drive motor arm must be attached to a suitably engineered gate structure suitable for attachment and if a lock is fitted, the arm attachment should be at the same level of the lock.

When closed the total arm should be nearly straight to provide positive locking with some small angle retained to prevent the locking of the gate arm in the event of over travel. The PK50 motor has an adjustable arm stop to prevent potential over travel but is **NOT TO BE USED** to provide the stop for the arm travel. When the gate arms are in the open position the both arms should form a tight angle.

For the PK50, fine arm adjustment can be achieved by extending the threaded rod of the arm and then locking the arm in position with the lock nuts. An optional heavy duty arm with a ball and socket attachment to the primary arm is available for PK50 installations that require above average movement of the gate leaf.

If no lock is fitted then excessive external forces on the gate leaf may damage the motor. All gate leaves over 2.5 metres require a gate lock for security and to prevent motor damage from attempted opening of the gate leaf by external forces.

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MANUAL OPERATION

The operator should be isolated from the power source. The operator drive arm is fitted with a release bolt that can be released to provide manual operation (Refer Fig: 2 page 6). The PK50 torque spanner is matched to the PK50 manual release bolt. The gate arm must be bent before manual operation can be achieved.

Once disconnected, care must be exercised to keep clear of the drive shaft extension shaft fitted to the motor and the arm extension fitted to the gate.

When the gate is operated manually, operational precautions must take into account wind loading that could affect the gate leaf so as to prevent personal, property and third party injury.

ELECTRIC CONNECTIONS

Limit switch connections must conform to the appropriate wiring diagrams for the PK50 refer Fig: 3 page 6.

Limit switches **MUST BE ADJUSTED TO STOP THE MOTOR** at both ends of travel otherwise serious damage, which is outside of warranty, will occur.

SLIPPING CLUTCH ADJUSTMENT

The PK50 has a slipping clutch that is a last resort safety device.

The clutch adjustment of the PK50 motor is achieved by tightening a ring onto the clutch pads and then securing the desired pressure by four bolts and then adjusting the lock nut to suit. Refer figure 2 page 6. The clutch must not slip in normal travel including appropriate settings for any wind loading.

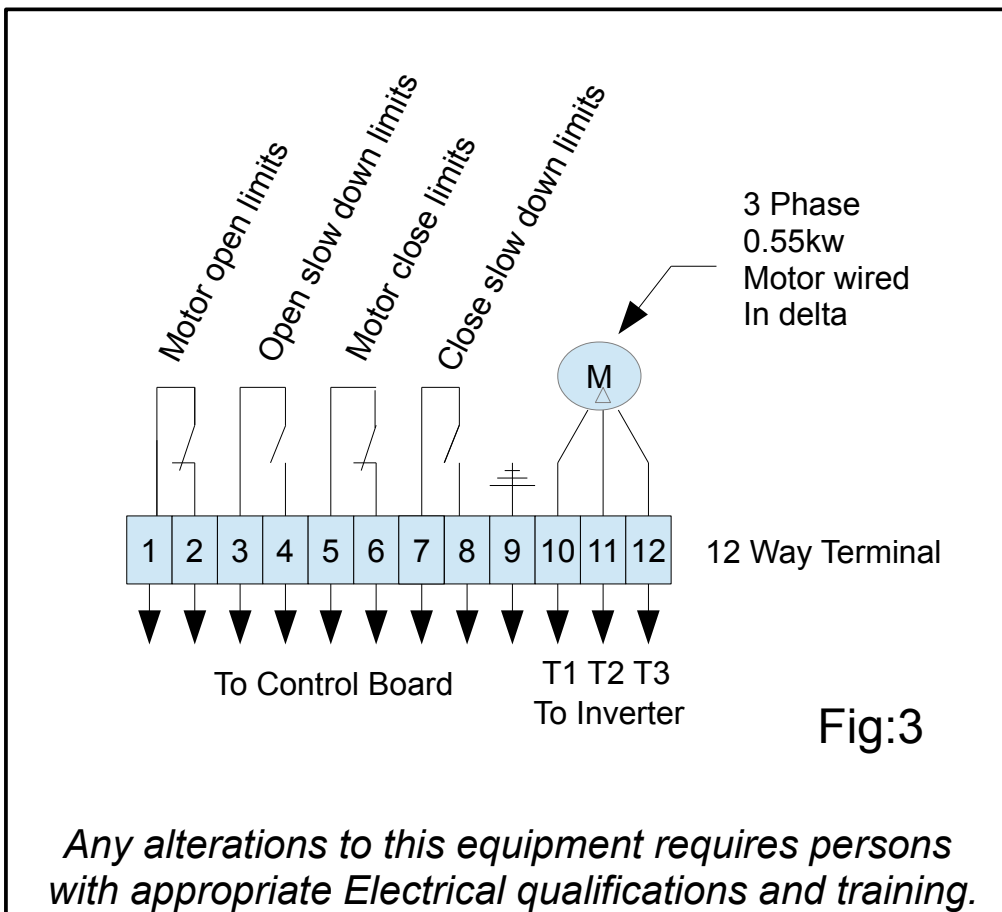
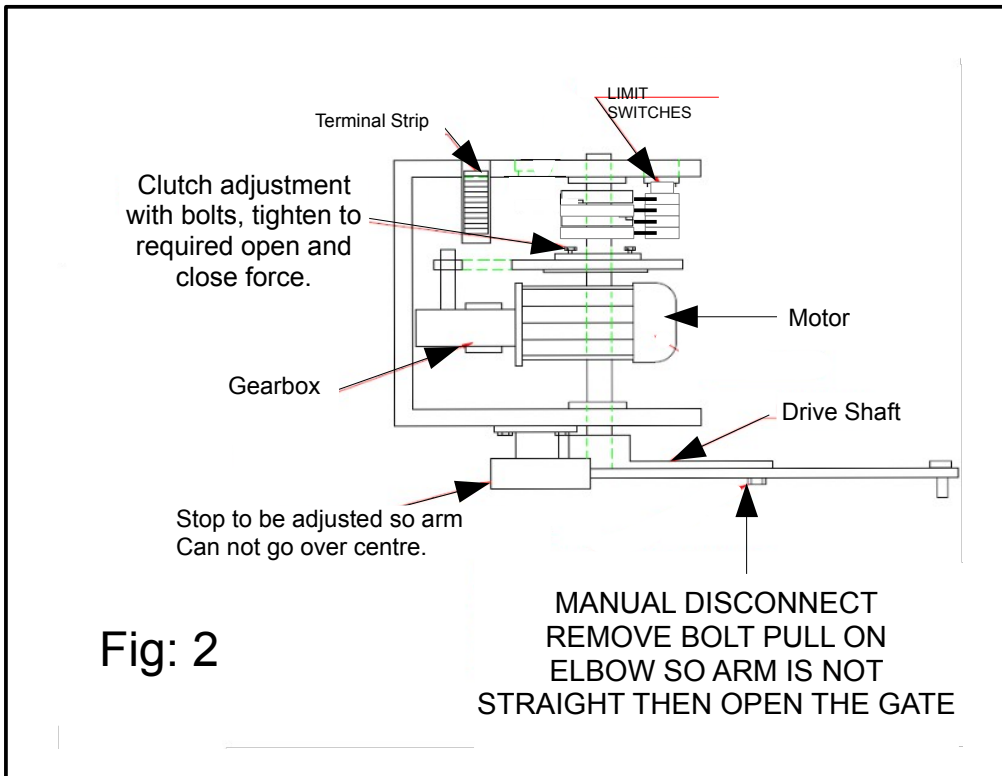
Wind loading on any gate, especially solid panel designs, can place extraordinary loads on the gate leaf and the PK50 clutch settings are not designed to overcome such events.

Regardless of the setting of the clutch or electronic torque control, as a minimum, the appropriate photo electric safety devices MUST be fitted, as well as any other safety devices necessary to comply with a prudent risk assessment of the operation.

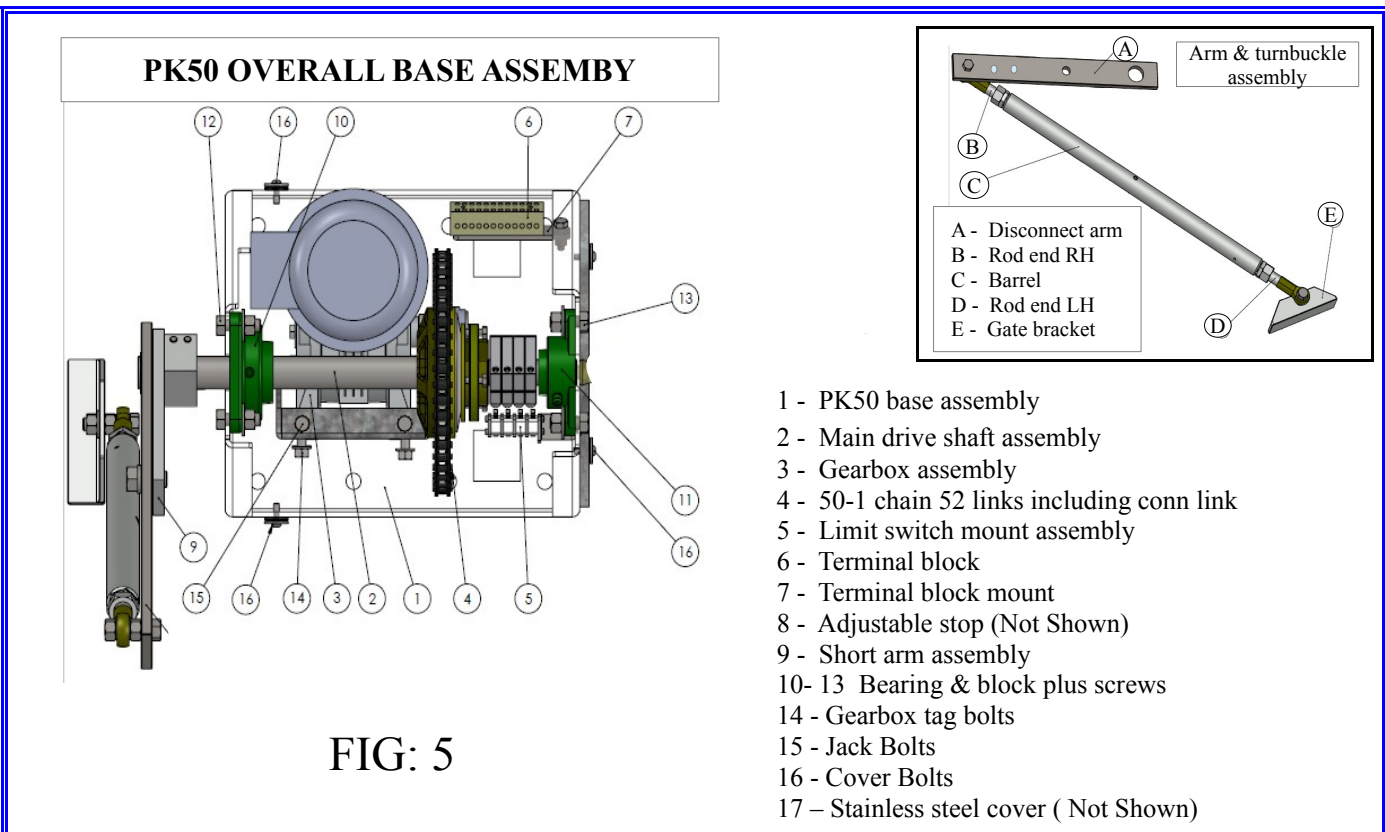
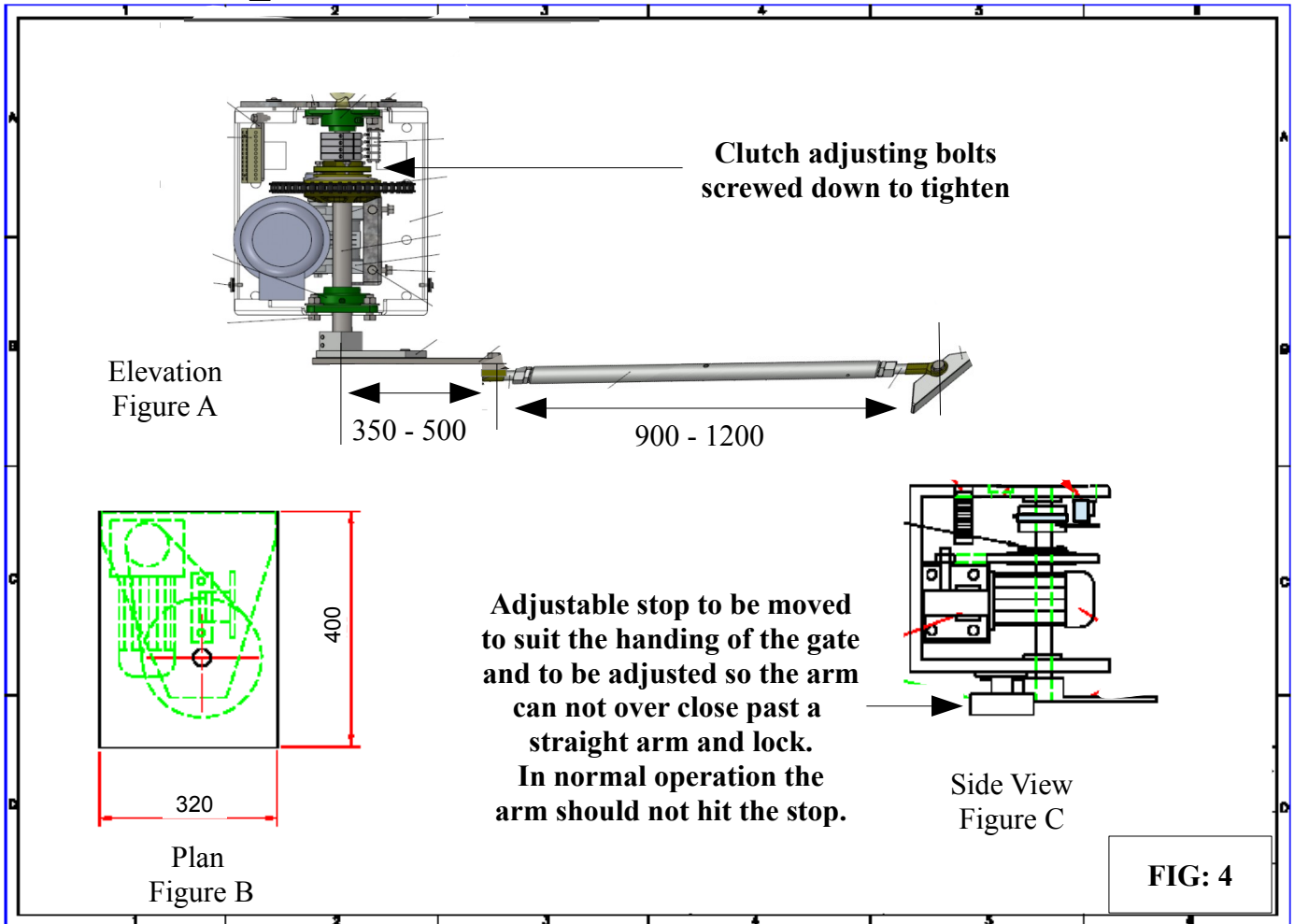
LIMIT SWITCH ADJUSTMENT

The limit switch must stop the motor at the end of travel in both directions. Adjustment is by way of a rotating cam on the drive shaft. Once the cam is moved to the appropriate location to engage the limit switch at the end of travel it **MUST** be locked into position by the cam locating screw.

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NOTES

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