## 3590 SERIES GATE <u>MECHANISM TROUBLE SHOOTING GUIDE</u> LOW BATTERY CONDITION HIGH WIRE RESISTENCE. GATE SLOW TO CLEAR ➤ SUPPLY VOLTAGE LOW VOLTAGE DROP DUE TO UNDERSIZED CABLE. ►(HORIZONTAL TORQUE HIGH. ADJUST GATE TORQUE (VERTICAL TORQUE HIGH.) PER INSTRUCTION MANUAL (GATE SLOW TO DESCEND (HORIZONTAL TORQUE LOW SNUB RESISTOR SET LOW. ►(ADJUST RESISTORS LIMIT RESISTOR SET HIGH SNUB RESISTOR SET HIGH. (GATE DESCENDS TOO FAST) LIMIT RESISTOR SET LOW. (ADJUST SNUB CAM) (GATE ARM BOUNCES DOWN (ADJUST HORIZONTAL STOP) (GATE CLEARS TOO HIGH) (VERTICAL TORQUE LOW (GATE CLEARS TOO LOW.) (ADJUST POWER UP CAM) GATE DOWN TOO LOW. REPOSITION MECHANISM SUPPORT GATE NOT PARALLEL TO ROAD RATCHET WHEEL TEETH WORN. NSUFFICIENT VERTICAL STOP GAP (SET GAP MINIMUM 3/32" RATCHET WHEEL CLUTCH FAILURE **INSUFFICIENT PAWL TO** ➤(ADJUST GAP TO .020". RATCHET TEETH CLEARANCE (VERTICAL GATE PUMPING) ►(HOLD CLEAR PAWL WORN ►(REVERSE OR REPLACE PAWL (MOTOR PINION KEY SHEARED ➤(REPLACE KEY) ► ARMATURE DOES NOT PULL IN ➤(OPEN COIL) ➤(REPLACE COIL (HOLD CLEAR FAILURE OPEN WIRING REPAIR WIRING ARMATURE PIN HOLES WORN. ARMATURE RIVETS WORN (GATE WILL NOT HOLD VERTICAL) REPLACE ARMATURE ASSY. ➤(POLE FACE WORN BY ARMATURE RIVETS ROTATE POLE FACE 1/4 TURN REPLACE SEGMENT GEAR ➤ (SEGMENT GEAR KEY SHEARED) KEY IN THE MAINSHAFT (GATE ARM CRASHES DOWN ➤(TEETH BROKEN ON CLUSTER GEAR) ➤(REPLACE CLUSTER GEAR) OPEN IN MOTOR DOWN CIRCUIT CHECK RELAY CONTACTS ➤OPEN RESISTOR ➤ REPLACE RESISTOR WINEDGE\MECHTBL2.EDG. 9/99 ►(MOTOR BRUSHES WORN ➤ REPLACE BRUSHES