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Latest Revision 22.06.98	Ref. P40p1.cd

#### 1. PRODUCT PRESENTATION

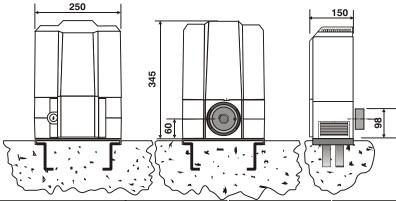
THE D5 AND A5 GATE OPERATORS ARE SELF - CONTAINED UNITS CONSISTING OF A WORMGEARED ELECTRIC MOTOR , AN ELECTRONIC CONTROL CARD AND A DIGITAL ORIGIN SEEKING SYSTEM ( DOSS ) WHICH KEEPS TRACK OF THE GATE POSITION.

THE UNITS HAVE A PLEASANT, MODERN DESIGN WHICH INTEGRATE HARMONIOUSLY WITH THE ENVIRONMENT OF HOME OR OFFICE.

THE SERIES 5 RANGE IS A QUALITY PRODUCT MEANT TO GIVE MANY YEARS OF RELIABLE OPERATON.

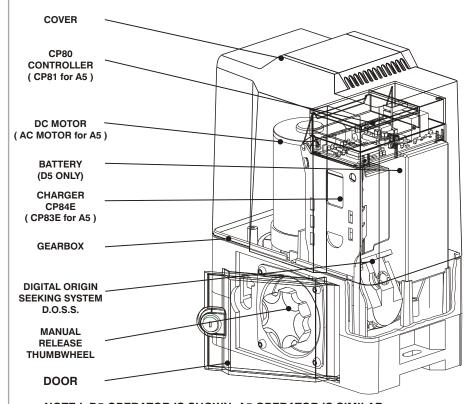
## 1.1. - General Features

The D5 & A5 models have been designed for sliding gates weighing less than 500 kg., whether already installed or still to be installed.



1.2 Technical Data	D5	A5	A5 + Fan
Power supply	220V,+/-10%, 50Hz	220V,+/-10%, 50Hz	220V,+/-10%, 50Hz
Motor voltage	12V DC	220V AC	220V AC
Maximum absorbed current	160mA	3A	3A
Starting thrust	60kgF	20kgF	20kgF
Rated thrust	25kgF	50kgF	50kgF
Duty cycle	50% (subject to battery capacity)	20%	70%
Speed of motor rotation	2800 r.p.m	2800 r.p.m	2800 r.p.m
Gear Ratio	37 to 1	37 to 1	37 to 1
Ambient Temperature Range	-15 +50 °C	-15 +50°C	-15 +50 °C
Weight, (including 7A/H battery for D5)	13.5kg	12.75kg	13.25kg
Oil Quantity	75ml	75ml	75ml
Oil Type	75W90	75W90	75W90
Gate Speed (Nominal)	16 m/min	16 m/min	16 m/min
Class of Protection	IP44	IP44	IP22
Maximum Gate Weight	500kg	500kg	500kg

#### 1.3 STANDARD KIT PRESENTATION



NOTE! D5 OPERATOR IS SHOWN, A5 OPERATOR IS SIMILAR

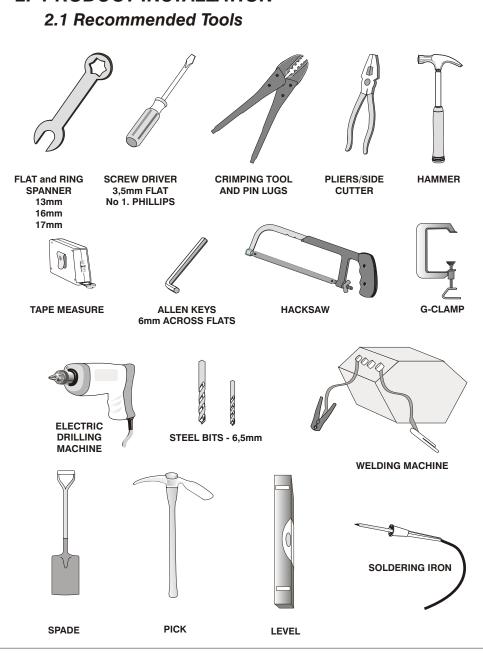
## WARRANTEE

THE SERIES 5 OPERATORS ARE GUARANTEED ONLY IF THE FOLLOWING CONDITIONS ARE ADHERED TO:

- MASS OF THE GATE IS LESS THAN 500kg;
- PULL ON GATE LESS THAN 25kgF;
- DUTY CYCLE IS NOT EXCEEDED ( SEE CURVES );
- MAINTENANCE AS SPECIFIED IS CARRIED OUT.
- CENTURION IS AT THE DISPOSAL OF ITS CUSTOMERS FOR ANY FURTHER EXPLANATION TO OBTAIN BETTER PERFORMANCE OF THE AUTOMATION, BUT IS NOT LIABLE FOR ANY DAMAGES CAUSED BY DISREGARD OF THE ABOVE MENTIONED.

Ref. p38p3.cdr

## 2. PRODUCT INSTALLATION



## 2.2 Cable Requirements

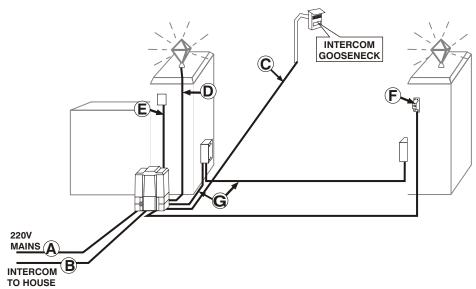


TABLE 1

NO	DESCRIPTION	NO OF CORES	SIZE mm <sup>2</sup>	OPTIONAL	* CABLE TYPE
‡ <sub>A</sub>	EITHER: 220V AC SUPPLY CABLE	2 + E	0,5		NORSK IN CONDUIT OR S.W.A.
	OR: 15V AC TRANSFORMER SECONDARY	2 + E	1,5		3 CORE CABTYRE IN CONDUIT
‡ B	INTERCOM IN HOUSE & STATUS SIGNALLING	n1 + 6	0,2	х	INTERCOM IN CONDUIT
С	INTERCOM - GEARBOX TO GOOSENECK	n 2	0,2	х	INTERCOM IN CONDUIT
D	PILLAR LIGHTS	2 + E	0,5	х	NORSK IN CONDUIT OR S.W.A.
Е	REMOTE RECEIVER	3	0,2	х	INTERCOM/CABTYRE/ G.P. IN CONDUIT
F	PEDESTRIAN KEYSWITCH	2	0,2	х	INTERCOM/CABTYRE/ G.P. IN CONDUIT
G	INFRA RED BEAM	3	0,2	Х	INTERCOM/CABTYRE/ G.P. IN CONDUIT
н	SOLAR PANEL (not shown)	2	1,5	х	CABTYRE OR G.P. IN CONDUIT

**★** = CABLE TYPE IS MINIMUM RECOMMENDATION

S.W.A. = STEEL WIRE ARMOURED

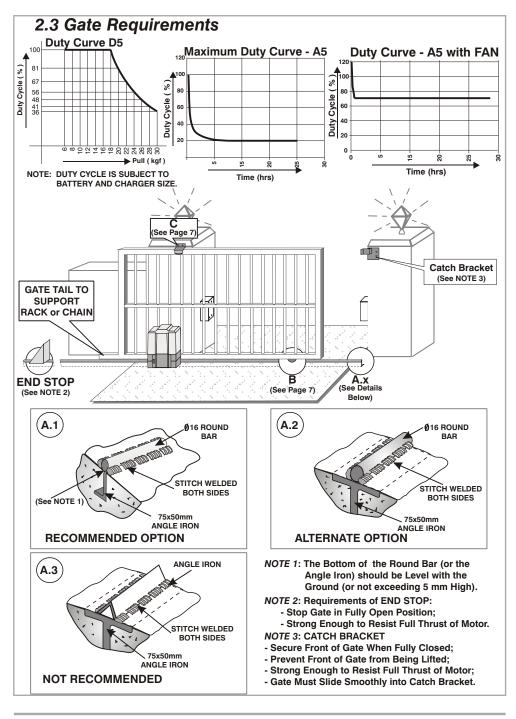
G.P. = GENERAL PURPOSE HOUSE WIRING OR PANEL FLEX

n1 = CONSULT INTERCOM SUPPLIER FOR REQUIRED NO. OF CORES

n2 = CONSULT INTERCOM SUPPLIER FOR REQUIRED NO. OF CORES

**‡** = FOR OPTIMUM LIGHTNING PROTECTION USE SCREENED CABLE EARTHED AT BOTH ENDS

Ref. p36p5.cdr

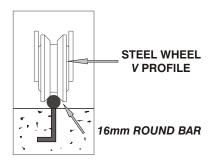


## **Gate Requirements continued**

B

## **OPTION 1**

## **OPTION 2**

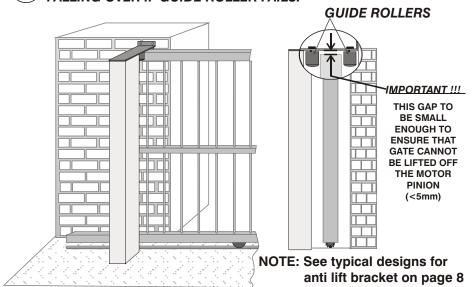


STEEL WHEEL ROUND PROFILE

GATE MASS : UP TO 400 KG LOW USAGE

GATE MASS : UP TO 800 KG HIGH USAGE

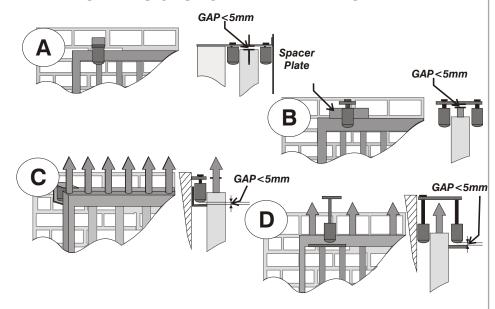
# C RECOMMENDED ADDITIONAL POST TO PREVENT GATE FROM FALLING OVER IF GUIDE ROLLER FAILS.



Ref. p34p7.cdr

## **Gate Requirements continued**

## TYPICAL DESIGNS FOR ANTI LIFT BRACKET



## **WARNING! - FILL WITH OIL PRIOR TO RUNNING**

THE GEARBOX DOES NOT CONTAIN ANY OIL. DO NOT OPERATE UNTIL OIL HAS BEEN ADDED.

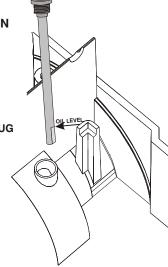
FOR TRANSPORT PURPOSES THIS UNIT HAS BEEN SUPPLIED WITH OIL IN A SEPARATE SEALED CONTAINER.

#### **INSTRUCTION FOR FILLING:**

- 1. LIFT OFF THE COVER TO THE OPERATOR
- 2. REMOVE THE CONTROL CARD AND BATTERY SO THAT YOU CAN GAIN ACCESS TO THE FILLER PLUG
- 3. UNSCREW THE CAP AND POUR IN THE OIL PROVIDED

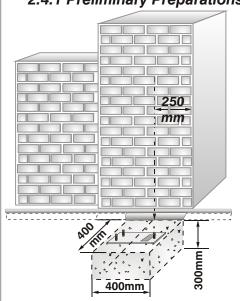
#### SPECIFICATIONS OF OIL:

GRADE: 75W90 QUANTITY: 75ml



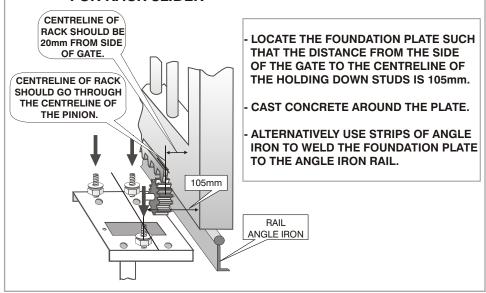
#### 2.4 UNIT INSTALLATION

## 2.4.1 Preliminary Preparations Plate Mounting



- LOCATE CENTRELINE FOR HOLE AND FOUNDATION PLATE AS SHOWN.
- THERE IS NO DIFFERENCE IF MOUNTING ADJACENT RIGHT HAND PILLAR.
- DIG HOLE FOR FOUNDATION PLATE APPROXIMATELY 400 x 400 x 300mm.

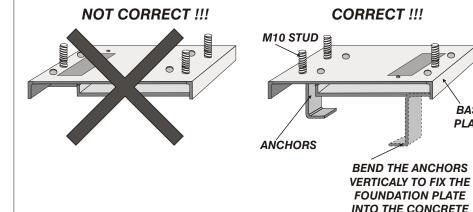
# 2.4.2 POSITIONING OF FOUNDATION PLATE FOR RACK SLIDER



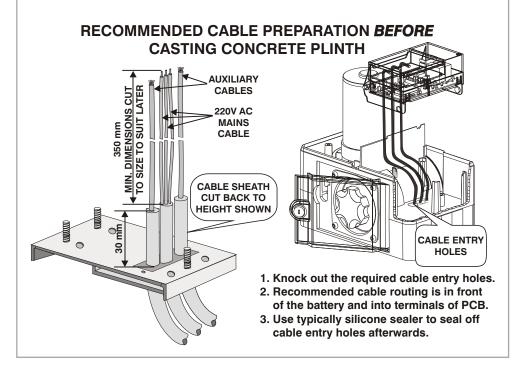
Ref. p32p9.cdr

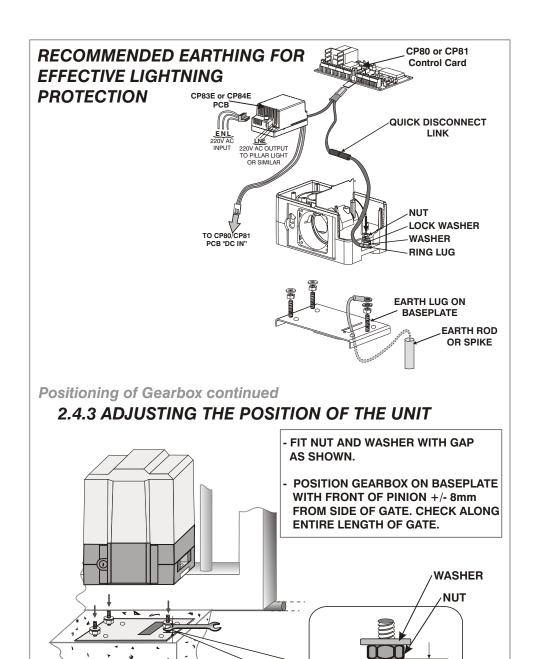
#### N.B.! CHECK FOR CORRECT ORIENTATION OF BASEPLATE.

- PREPARE THE PLATE FOR CONCRETING INTO PLACE.



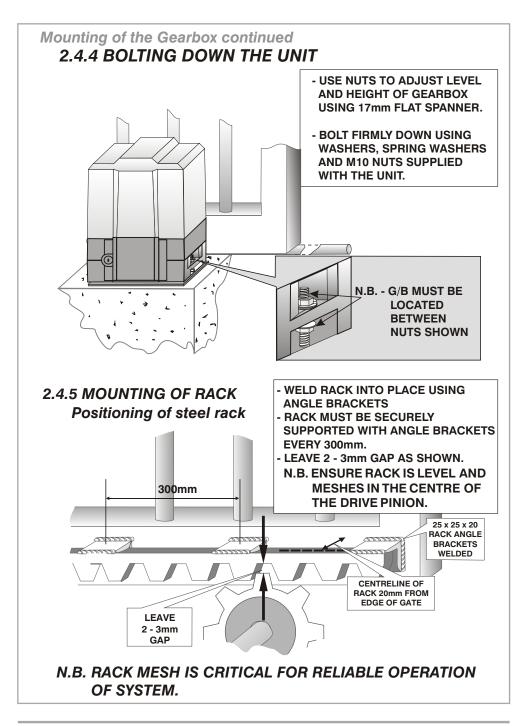
BASE **PLATE** 

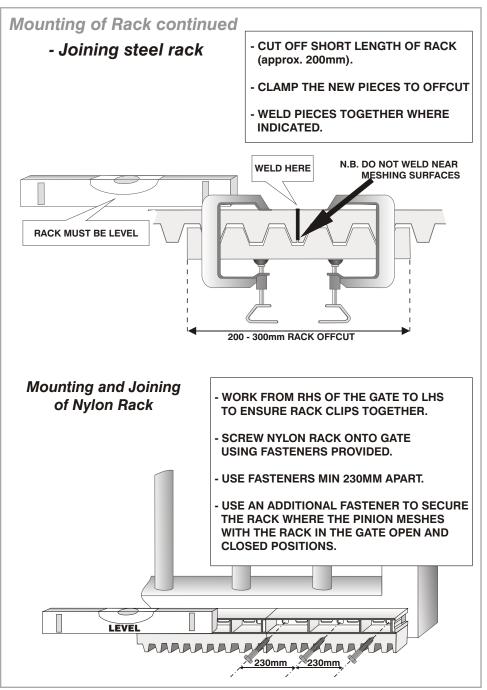




Ref. p30p11.cdr

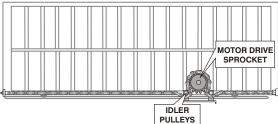
FOUNDATION PLATE





Ref. p28p13.cdr



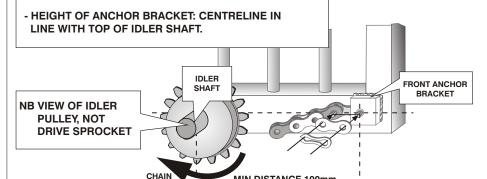


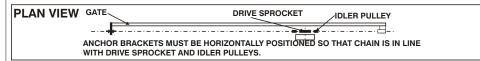
NOTE: Mount chain under idler pulleys and over motor drive sprocket

#### POSITIONING FRONT ANCHOR BRACKET

- WELD FRONT ANCHOR BRACKET TO FRONT OF GATE.

WRAP

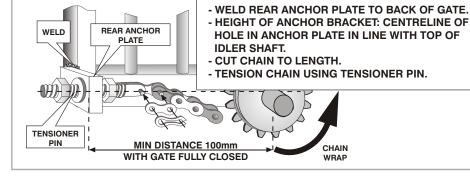




MIN DISTANCE 100mm

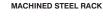
WITH GATE FULLY OPENED

#### POSITIONING REAR ANCHOR PLATE WITH TENSIONER



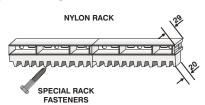
## 3.0 ACCESSORIES

#### **RACK & ATTACHMENTS**









#### **FASTENERS**





M10 NUT(S) FLAT WASHER(S)



LOCK WASHER

#### **CHAIN & ATTACHMENTS**



CHAIN TENSIONER PIN







CHAIN ANCHOR BRACKET (FRONT)

### **BATTERIES (D5 ONLY)**





CHAIN ANCHOR PLATE (REAR)

(LIGHT INDUSTRIAL)

(DOMESTIC)

#### **POWER SUPPLY**



D5 CHARGER - CP84E A5 POWER SUPPLY - CP83E



#### **ENCLOSURES (OPTIONAL)**



#### **ELECTRONICS**





**CP80 CONTROL CARD** (D5)

CP81 **CONTROL CARD** (A5)

Ref. p26p15.cdr

#### 4. ELECTRICAL CONNECTIONS

NB.

The controllers on the A5 and D5 versions are different. Make sure you are connecting the correct controller:

#### **CONTROLLER TYPES**

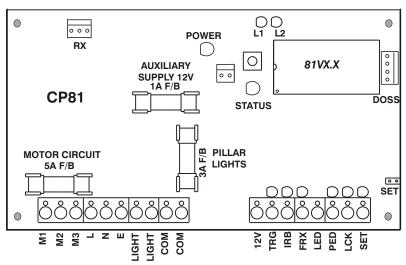
- 1) CP80 USED ON D5 OPERATOR
- 2) CP81 USED ON A5 OPERATOR

#### NOTES:

Select which pieces of equipment need to be connected and then link to one of the controllers shown below.

#### - 220V AC MOTOR CONTROLLER

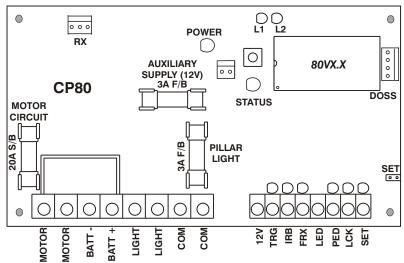
#### **CP81 CONTROL CARD**



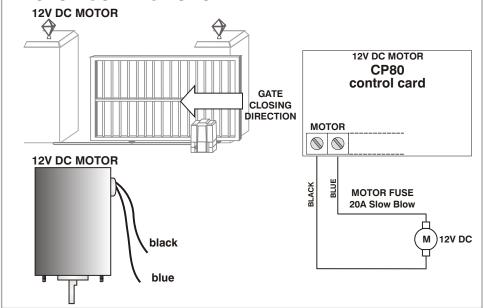
#### **Electrical Connections continued**

## **CP80 CONTROLLER** - 12V DC MOTOR CONTROLLER

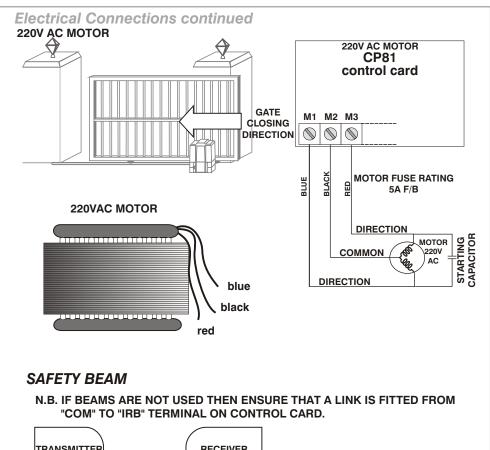
#### **CP80 CONTROL CARD**

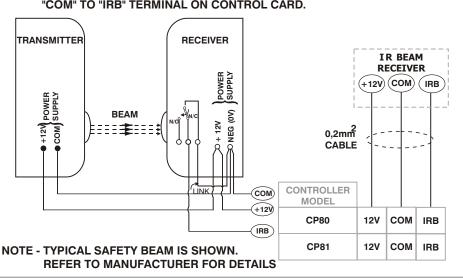


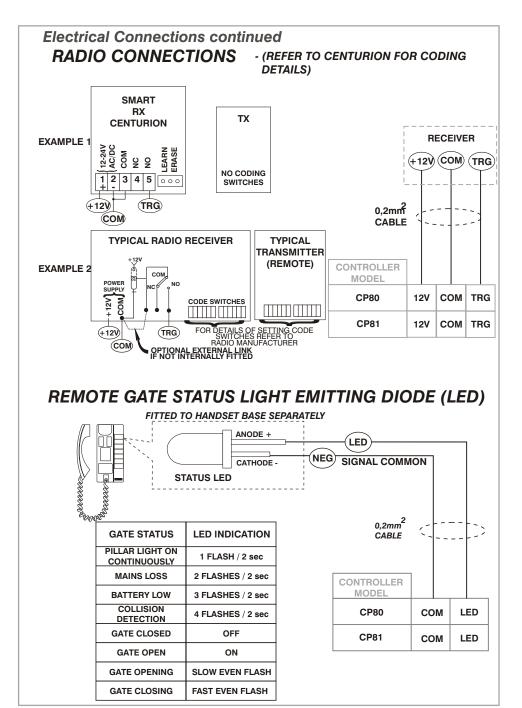
#### **MOTOR CONNECTIONS**



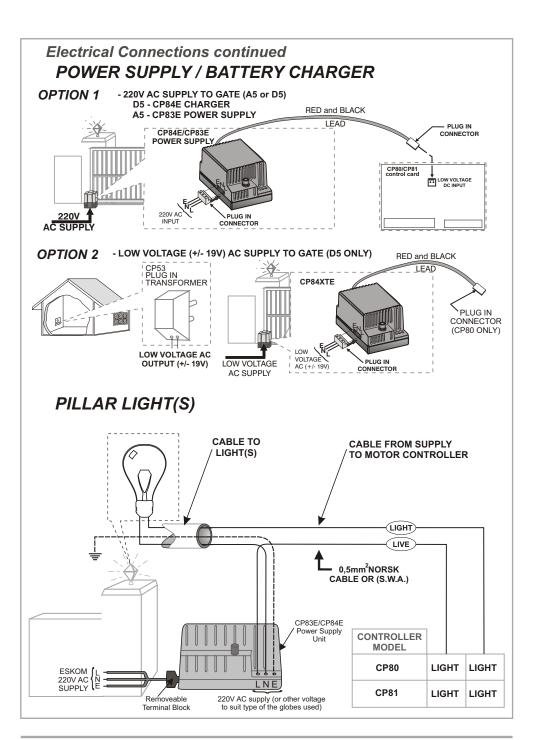
Ref. p24p17.cdr

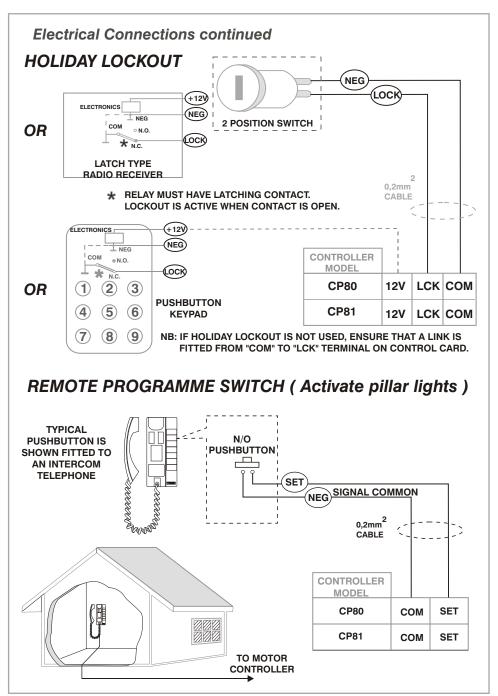






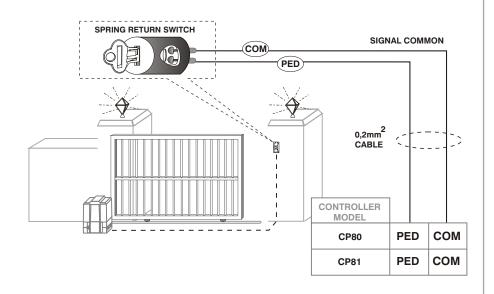
Ref. p22p19.cdr



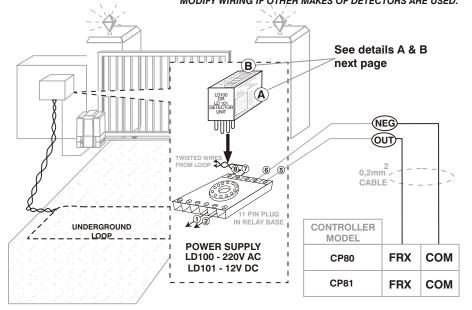


Ref. p20p21.cdr

#### PEDESTRIAN KEYSWITCH



## FREE EXIT LOOP - LD 100 OR 101 INDUCTIVE LOOP DETECTOR IS SHOWN BELOW. MODIFY WIRING IF OTHER MAKES OF DETECTORS ARE USED.

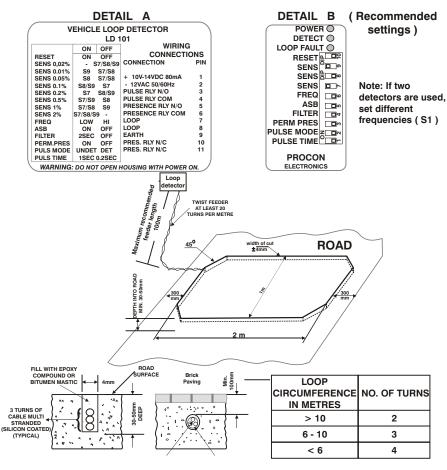


#### LOOP DETAILS

#### STANDARD FEATURES OF THE DETECTOR ARE:

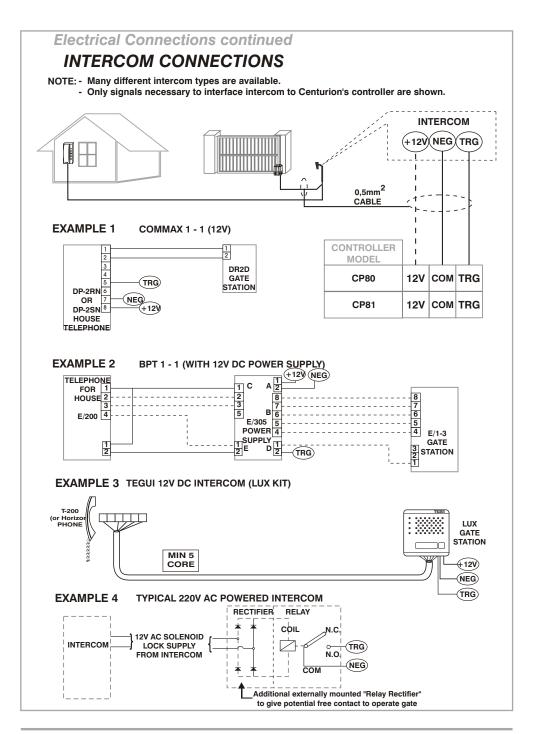
- Reset Switch.
- The reset switch enables the detector to be manually reset during commissioning and testing.
- This results in the detector re-tuning the sensing loop and becoming ready for vehicle detection.
- Selectable Pulse Time. This feature sets the length of time that the pulse relay will be energised for.
- Pulse Relay Selection. The Pulse relay may be configured to energise on detection of vehicle leaves the loop.
- Second Presence Relay output.
  - This option is used to provide a second presence relay output by changing the mode of the pulse relay to presence mode.
- Switch selectable Sensitivity. Four sensitivity settings are available on the switches to allow flexibility in configuration.
  - High 0.02% ; Medium High 0.05% Medium Low - 0.1% ; Low - 0.5%
- Switch selectable Frequency. Two frequency settings are available to prevent cross-talk between adjacent loops.
- Permanent Presence Option.

This feature ensures detection of the vehicle will be maintained when the vehicle is parked over the loop for extended periods.



- WIRE: 1.5mm SQUARED MULTI STRANDED CABLE (USE SILICON COATED IF PLACED DIRECTLY INTO THE GROUND)
- SPACING BETWEEN TWO ADJACENT LOOPS > 2 METRES. ALTERNATE ADJACENT LOOPS USING DIFFERENT NUMBERS OF TURNS.
- LOOP AND FEEDER SHOULD COMPRISE ONE LENGTH OF UNJOINED WIRE, IF JOINTS ARE MADE, THEN SOLDER JOINT,
- USE SCREENED FEEDER CABLE IN ELECTRICALLY NOISY ENVIRONMENTS OR WHERE FEEDER RUNS PARALLEL TO POWER CABLES.

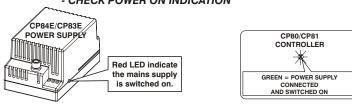
Ref. p18p23.cdr



# 5. COMMISSIONING 5.1 APPLYING MAINS POWER

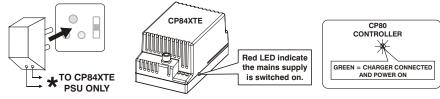
#### **OPTION 1** 220V AC SUPPLY TO GATE

- APPLY 220V AC POWER
- CHECK POWER ON INDICATION

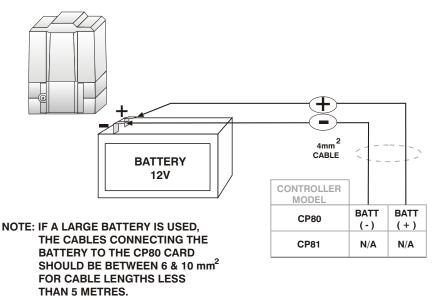


#### **OPTION 2** LOW VOLTAGE SUPPLY TO GATE (D5 ONLY)

- PLUG IN TRANSFORMER AND SWITCH ON CIRCUIT
- CHECK POWER ON INDICATION



## **CONNECTING BATTERY (D5 ONLY)**



Ref. p16p25.cdr

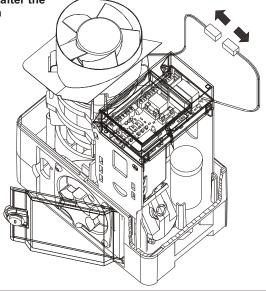
## Commissioning continued

## **5.2 SETTING CLUTCH ON A5 MOTOR**

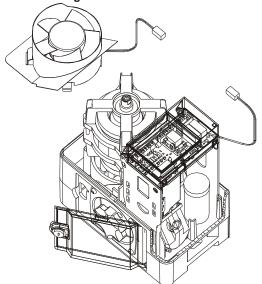
NOTE: This can only be carried out after the control card, CP81, has been programmed.

#### STEP 1

- If fan is fitted, disconnect power cable to fan.

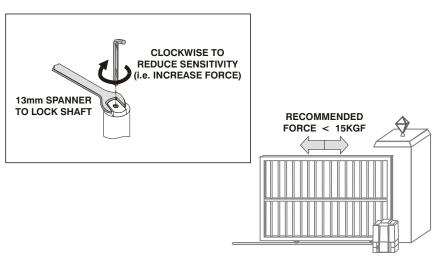


## **STEP 2** - Remove Fan Cowling from Motor.

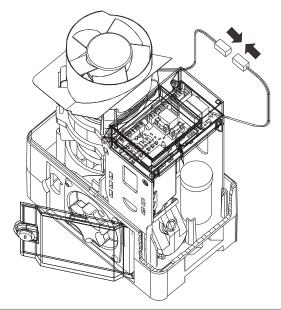


## Setting clutch on A5 motor continued

**STEP 3** Adjust grub screw to correct gate pulling / push force.



**STEP 4** Remount cooling fan, where applicable, and connect power.



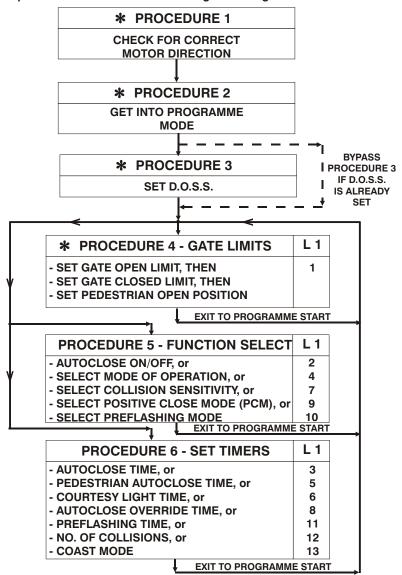
Ref. p14p27.cdr

## **Commissioning Procedure continued**

#### 5.3 PROGRAMMING THE CP80/CP81 CONTROL CARD

N.B. \* Procedure 1 to 4 MUST be performed on initial commissioning. Procedure 5 & 6 are required ONLY if the default settings on the PCB need to be changed.

The procedure is shown in the following block diagram.



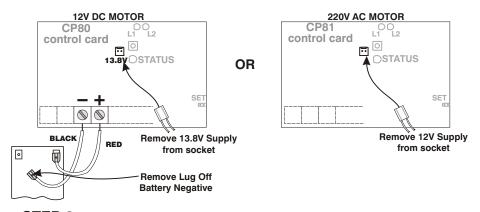
## **Commissioning Procedure continued** PROCEDURE 1- CHECK FOR CORRECT MOTOR DIRECTION N.B. Procedure 1 to 4 MUST be performed on initial commissioning: 1. Check motor direction GATE CLOSING DIRECTION 12V DC MOTOR 220V AC MOTOR CP80 CP81 control card control card MOTOR M1 M2 M3 0 With wire polarities shown the gate closes to the left. TO 12V DC MOTOR O 220V AC MOTOR If the gate closes to the RIGHT, then swop wires as shown below: **GATE CLOSING DIRECTION** 12V DC MOTOR 220V AC MOTOR CP80 CP81 control card control card MOTOR M1 M2 M3 BLUE BLACK TO 12V DC MOTOR TO 220V AC MOTOR

Ref. P12p29.cdr

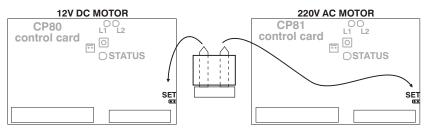
## **Commissioning Procedure continued**

## PROCEDURE 2 - GETTING INTO PROGRAMME MODE

#### **STEP 1** Remove the electronics power from the PCB.

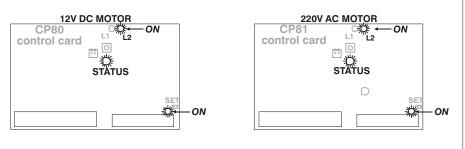


#### STEP 2 Fit SET link to PCB



STEP 3 Reapply power ( Reversal of STEP 1 above ).

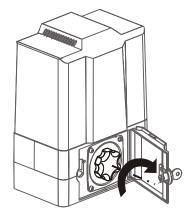
Check that STATUS LED flashes 5 times and then " L 2 " LED must be illuminated indicating PROGRAMME MODE.



## **Commissioning Procedure continued**

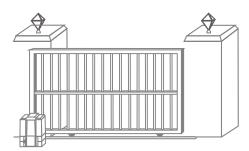
#### **PROCEDURE 3 - SETTING DOSS**

STEP 1 - Put the gate into manual mode.

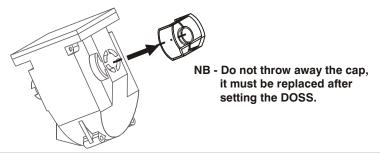


ROTATE MANUAL DISCONNECT THUMBWHEEL CLOCKWISE UNTIL GATE IS RELEASED.

### STEP 2 - Manually push the gate fully closed.



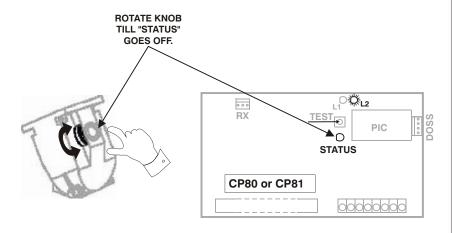
#### STEP 3 - Remove the protective cap from the DOSS.



Ref. p10p31.cdr

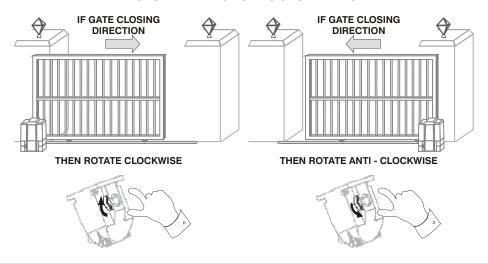
## Procedure 3 - Setting DOSS continued

STEP 4 - Rotate DOSS wheel in either direction until STATUS LED, is OFF ( if already off then proceed to STEP 5 ).



STEP 5 Rotate DOSS wheel, click by click, in direction shown below, till STATUS just comes ON, then add 2 clicks.

#### **OBSERVE DIRECTION AS SHOWN BELOW**



## **Commissioning Procedure continued**

#### PROCEDURE 4 - SETTING GATE LIMITS

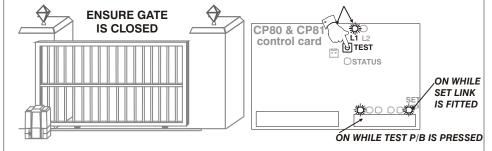
NB. - Gate limits must be set up on initial commissioning, or, if rack and pinion lose mesh.

Steps 1 to 5 must be followed in order and completed.

If not already done put motor into manual mode (See Procedure 3 Step 1).

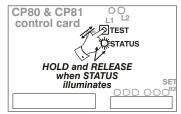
- Make sure gate is in closed position.

#### STEP 1 Hold TEST P/B down until L1 LED flashes once, then release P/B.



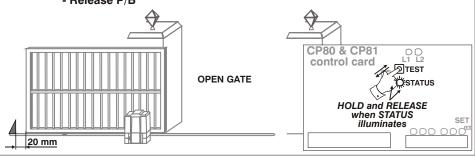
#### STEP 2 - L1 will be flashing once per second;

- Press TEST P/B until STATUS LED illuminates;
- Release P/B;
- STATUS, L1, L2 will now be off.



## STEP 3 - Push gate OPEN <u>without</u> reversing and stop gate, 20mm from mechanical endstop.

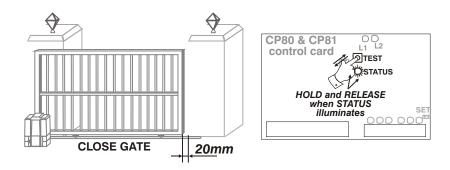
- Press TEST P/B until STATUS illuminates.
- Release P/B



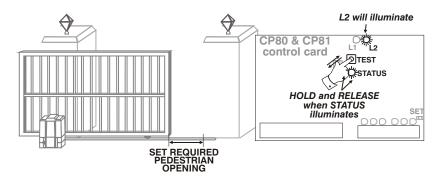
Ref. P8p33.cdr

## **Procedure 4 - Setting Gate Limits continued**

- STEP 4 Push gate closed <u>without</u> reversing and stop gate, 20mm from mechanical endstop;
  - Press TEST P/B until STATUS LED illuminates;
  - Release P/B.



- STEP 5 Push the gate to the REQUIRED PEDESTRIAN OPEN position making sure the gate direction is not reversed.
  - Press TEST P/B until STATUS illuminates; if not then increase the pedestrian opening, bit by bit until STATUS illuminates;
  - Release P/B
  - L2 will illuminate.

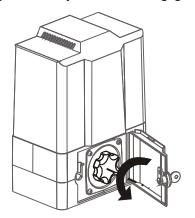


NOTE: 'STEP 5' MUST BE PERFORMED EVEN IF THE PEDESTRIAN FACILITY IS NOT USED.

## Procedure 4 - Setting Gate Limits continued

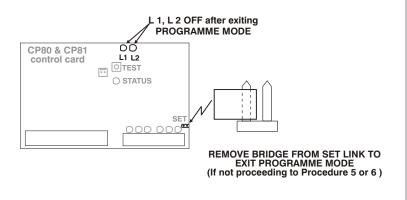
## STEP 6

- Re-engage gate by turning manual release thumbwheel anti clockwise.
- Slide gate manually until drive re-engages.



ROTATE THUMBWHEEL ANTI - CLOCKWISE TO RE - ENGAGE

## STEP 7 - Exit PROGRAMME MODE, if not proceeding to procedure 5 or 6 by removing SET LINK.



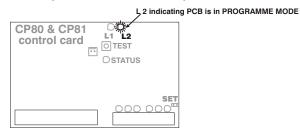
Ref. p6p35.cdr

## **Commissioning Procedure continued**

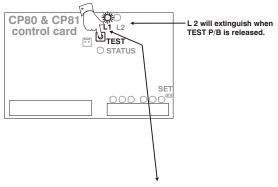
#### **PROCEDURE 5 - FUNCTIONS SELECTION**

**TURBO SETUP:** To speed up the selecting of "menus" turbo mode should be used. This is done by connecting "COM" to "PED". The counting speed on L1 will be increased.

## STEP 1 Ensure that PCB is in PROGRAMME MODE i.e. LED, L 2, MUST be illuminated (if not refer Procedure 2).



## STEP 2 Hold TEST P/B DOWN until LED L 1, flashes the required number of times as shown in TABLE 5.1, then release P/B.



FUNCTION TO BE SELECTED	NO. OF TIMES L1 FLASHES	DEFAULT STATUS
AUTOCLOSE ON / OFF	2	OFF
MODE OF OPERATION	4	STANDARD
COLLISION SENSITIVITY	7	HIGH
PCM	9	OFF
PRE - FLASHING MODE	10	OFF

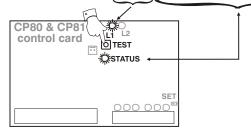
TABLE 5.1

#### **Procedure 5 - Functions Selection continued**

STEP 3 Press & Hold TEST button while monitoring STATUS LED; Release the Pushbutton after STATUS LED Flashes the required number of times to select the required mode. ( See Table 5.2 )

EUNCTION TO BE SELECTED times		No. of REQUIRED NO. OF FLASHES OF times STATUS LED TO SELECT MODE			
	flashing	1	2	3	4
AUTOCLOSE ON / OFF	2	ON	OFF	ı	_
MODE OF OPERATION	4	STANDARD	CONDOMINIUM	PIRAC	REVERSING
COLLISION SENSITIVITY *	7	HIGH	MEDIUM	LOW	_
PCM 🗱	9	ON	OFF	_	_
PRE - FLASHING ON / OFF	10	MODE 1	MODE 2	MODE 3	OFF

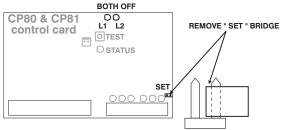
TABLE 5.2



L 1 will extinguish & L 2 will illuminate allowing selection of more functions if required.

#### **PREFLASHING MODES:**

- MODE 1 LIGHT PREFLASHES AT 1 HZ, THEN ACTS AS COURTESY LIGHT
- MODE 2 LIGHT FLASHES AT 1 HZ FOR PREFLASH TIME AND MOTOR RUN TIME ONLY
- MODE 3 LIGHT ON CONTINUOUSLY FOR PREFLASH TIME AND MOTOR RUN TIME ONLY
- STEP 4 Exit PROGRAMME MODE, if NOT proceeding to procedures 4 or 6, by removing set bridge.



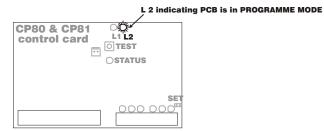
**★** ONLY applicable to D5. See page 26 for adjustment of A5 Clutch.

Ref. p4p37.cdr

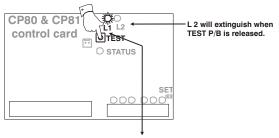
#### **Commissioning Procedure continued**

## PROCEDURE 6 - SETTING DURATION OF TIMERS

STEP 1 Ensure that PCB is in PROGRAMME MODE i.e. LED, L 2, MUST be illuminated (if not refer Procedure 2).



STEP 2 Hold TEST P/B DOWN until number of flashes of LED, L1, corresponds to the TIMER to be selected as shown in TABLE 6.1, then release P/B.



TIMER	NO. OF TIMES LED	DEFAULT
AUTOCLOSE	3	15 secs
PEDESTRIAN AUTOCLOSE	5	5 secs
COURTESY LIGHT (see note overleaf)	6	120 secs
AUTOCLOSE OVERRIDE	8	3 secs
PREFLASHING TIME	11	5 secs
COLLISION COUNTER	12	4 counts
COAST MODE	13	<b>*</b> 3 counts

TABLE 6.1

\* NB. Each count represents 10mm of coast for the gate.

## **Procedure 6 - Setting Duration of Timers continued**

## STEP 3 Press and Hold TEST button while counting the number of times STATUS LED flashes;

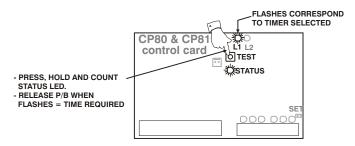
Release the Pushbutton when the flashes count = time (or count ) required.

#### NOTE:

-1FLASH OF STATUS = 1 second of timer duration (approx.), EXCEPT for the courtesy light timer where -1 FLASH OF STATUS = 10 seconds of timer duration (approx.).

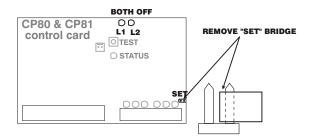
For COAST MODE: (see page 40 for more detail)

- 1 FLASH OF STATUS=10 mm of COAST DISTANCE (maximum 250mm)



L 1 will extinguish & L 2 will illuminate allowing selection of more timers or functions. ( See Procedure 4 or 5 ).

# STEP 4 Exit PROGRAMME MODE, if NOT proceeding to Procedure 4 or 5, remove SET bridge.

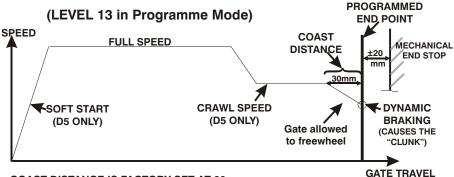


Ref. P2p39.cdr

# 5.4 PROCEDURE TO PROGRAM THE CP80/CP81 TO DEFAULT SETTINGS

- 1. REMOVE POWER (POWER SUPPLY AND BATTERY IF D5).
- 2. FIT THE "SET" LINK.
- 3. CONNECT "PED" AND "FRX" TO "COM".
- 4. RECONNECT POWER. L1 AND L2 WILL ILLUMINATE.
- 5. REMOVE THE POWER (BATTERY AND POWER SUPPLY).
- 6. REMOVE THE "SET" LINK AND DISCONNECT "PED" AND "FRX" FROM "COM".
- 7. THE CARD IS NOW PROGRAMMED TO DEFAULT SETTINGS AS SHOWN IN TABLES 5.1 (see page 36) AND 6.1 (see page 38) (GATE END POINTS ARE NOT AFFECTED)

#### 5.5 COAST DISTANCE



- COAST DISTANCE IS FACTORY SET AT 30mm.

