Reset Controller

Controller Type: PTC-1
Serial Number:
Issue/Version:
Tested By:
Date:

Timing Data Check

- Check and record all timings using a stopwatch
- Ensure all timings recorded match those specified.
- Ensure timings are held on configuration EPROM and not just in RAM

- Minimum Vehicle Green Times
- Maximum Vehicle Green Times
- Fixed Vehicle Period
  (time run by vehicles if controller switched to fixed time)
- Intergreen – Traffic to Pedestrian (Forced Change)
- Intergreen – Traffic to Pedestrian (Gap Change)
- Standing Green Man Duration
- Minimum Ped Clear inc Starting Amber
- Maximum Ped Clear inc Starting Amber
- On crossing detector extension times
- Kerbside detector extension times

General Data Check

- Check state of pre-timed max by:
  1) Set all detector inactive and wait until any existing pedestrian demand have been served.
  2) Set vehicle detector active
  3) Time off Vehicle Max Green time with stopwatch
  4) Insert pedestrian demand.

If PTM active vehicles should close down immediately
If PTM inactive vehicles close down after max timer

- Check Vehicle detector extensions using appropriate command on handset.
  Typically
  0.5 for MVD’s
  1.5 for Loop’s

- VA running pre-timed max’s (Y/N)
- Vehicle detector extension times
Urban Traffic Control (UTC)

- Check operation of following bits if OTU fitted

  F~ – Force to stage ~ in accordance to Sheffield UTC requirements
  D# – Demand and-or extend stage # in accordance to Sheffield UTC requirements
  RR – Present when lamps are switched off and during start-up.
  DF – Present is PBU or Vehicle detector fault occurs (reduce DFM time to simulate DFM timeout)
  G~ – Present when stage ~ is at full green
  SD# – Present when stage # is demanded
  LF – Present when any signal lamp has failed (red/amber/green/wait etc…)
  RF1 – Present when any vehicle red lamp has failed.
  RF2 – Present when any two red lamps have failed.
  KSFLT – Present after 10 failures on any Kerbside detector

UTC Control

- Force Vehicle Stages (F1 – F3)
- Force Pedestrian Stages (F2 – F3)
- Demand Vehicles (D1 – D3)
- Demand Pedestrians (D2 – D4)

UTC Reply Bits

- Traffic Stages at green (G1 – G3)
- Pedestrian Stages at Green (G2 – G4)
- Pedestrian Demand (SD2 – SD4)
- Check Time Sync (TS)
- Remote Reconnect Bit Works (RR)
- Detector Fault Reply (DF)
- Check Lamp Fault Reply (LF)
- Check Single Red Lamp Fault Reply (RF1)
- Check Two Red Lamp Fault Reply (RF2)
- Kerbside fault reply (KSFLT)
General Tests

- **Check SDE/SA – Check by:**
  1) If GERQ detector is set active controller should extend the associated vehicle stage up to its max.
  2) If ECPRQ detector is set active when the vehicle stage loses green the intergreen to the pedestrian green man should be extended by 2 seconds.

- **DFM time outs – Check by:**
  1) Reduce vehicle detectors DFM active time to its minimum value.
  2) Setting vehicle detector active
  3) After detector has been active for the DFM active time the controller should flag it as faulty in the log.

- **Check Green Conflict by:**
  1) Getting signal company engineer to short Green Man & Vehicle Greens
     Or
  2) Use test switch on lamp box to light ped green whilst vehicle green is lit *(if test switch is available)*

- **Check controller start up from power off**
  Controller should light lamps after starting intergreen period has timed off (see your spec for starting intergreen).
  Starting up in the pedestrian clearance (i.e. Red Man followed by green to vehicles after clearance period).

- **Check controller start up from lamps on/off switch**
  Controller should light lamps immediately
  Starting up in the pedestrian clearance (i.e. Red Man followed by green to vehicles after clearance period).

- **Forward Call**
  Upon the servicing of a demand from an outer push button the controller will wait x seconds and then place a demand for the next crossing, provided that the KSD is active, this demand can be automatically entered up to 2 seconds after the end of the initial period x (x is determined as the time taken to cross from the outer crossing point to its associated inner crossing point)
  Once this period has expired the controller will return to its normal operation and cancel demands dependent on the Kerbside Detection.

- Check SDE/SA (extensions & intergreens)
- Check DFM time outs
- Check that a green conflict causes switch off
- Check start up from power off
- Check start up from lamps off
- Check forward call facility
- Check red lamp monitoring extends intergreens to peds by 2 seconds if traffic phases have 1 red lamp out *(Does not work on all types of controllers)*
- Check red lamp monitoring switches off signals if either traffic phase has 2 red lamps out

**Faults / Notes**