

MELBOURNE AND METROPOLITAN TRAMWAYS BOARD

NAME:

NUMBER:

DEPOT:

PRACTICAL FAULT FINDING

1. CUTTING OUT MOTORS

- (a) Identify Controller
 - (b) Safety Test
 - (c) Identify Cut Out Switches
 - (d) Cut Out Motors
 - (e) If problem still exists (cut out other pair)
 - (f) If problem still exists (Push)
 - (g) Radio Centre
-

2. POWER ON, TRAM WON'T START

- (a) Check all switches are making good contact
 - (b) *Check other end for power first*
Change fuse at other end ~~and check for power~~
 - (c) Change fuse at driving end
 - (d) (Clear track ahead) try series notches
 - (e) Try parallel notches
 - (f) Examine ratchet spring (procedure) K.35
 - (g) Push
 - (h) Radio Centre
-

3. COMPRESSOR GAUGE UNDER 60 LBS.

- (a) Stop Tram (Procedure) - *No air, had brake. If air used apply had brake then release air brake*
 - (b) Check for Power (Procedure) - *Turn on lights, if don't burn check pole is in overhead*
 - (c) Compressor Switch Test - *Put one off to see that it is making good contact.*
 - (d) Change Fuse (Interchange Method)
 - (e) Problem Corrected or Not (Changeover)
Radio Centre
-

4. COMPRESSOR GAUGE OVER 90 LBS.

- (a) Stop Tram
 - (b) Compressor Switch Off
 - (c) Reduce Pressure (Method) - *Pump the brake*
 - (d) Remove Fuse from Compressor Switch and Switch On
 - (e) Continue on Hand Brake
 - (f) Radio Centre (Changeover)
-

5. LOCKED CONTROLLER

(a) On Position.

1. Turn L/Breaker switch off
 2. Stop tram
 3. Arrange to be pushed (forward)
 4. Ring Radio Centre.
-

(b) Off Position.

1. Check Key is forward
 2. Put key in neutral
 3. Arrange to be pushed
 4. Ring Radio Centre.
-

6. BENT FINGER (K.35 CONTROLLER)

IF POLE IS DOWN APPLY HAND BRAKE.

- (a) Line Breaker Switch Off
 - (b) Pull down Pole
 - (c) Apply Hand Brake
 - (d) Open Controller Cover and Arc Shield
 - (e) Straighten or pull back Bent Finger
-

7. BENT POLE (BADLY DAMAGED)

- (a) Apply Hand Brake
 - (b) Tie Pole down
 - (c) Release Front Rope
 - (d) Release Emergency Rope
 - (e) Both ropes and pole to Off side
 - (f) Conductor to hold Emergency Rope
 - (g) Driver to throw his rope to Near Side
 - (h) Pole to Overhead
 - (i) Driver throws his rope back
 - (j) Ropes tied (separately)
 - (k) Driving points to remember — *Drive in series, watch automatic points section insulators.*
 - (l) Radio Centre.
-

8. POLE ON SECTION INSULATOR

- (a) Change Poles
 - (b) Handles to Other End
 - (c) Drive forward 1 metre.
-

9. INSULATED TRAM

- (a) Symptoms (How would they know) - *Dim lights & tram will start.*
 - (b) Warn all passengers and intending passengers
 - (c) Leave tram (Method) - *Drop cable*
 - (d) Get pole Down (Method)
 - (e) Passengers Off
 - (f) Hand Brake On - Light Switch On
 - (g) Where possible, Use Water (Method)
 - (h) If not, use Points Bar (Method)
 - (i) If not successful, have tram pushed.
Radio Centre.
-

10. CHANGING OF LIGHT FUSE

- (a) Hand brake on
 - (b) Pole down
 - (c) Renew fuse
 - (d) Replace pole
 - (e) Test lights -
If lights don't burn ring Radio Centre.
-