

## CLASS 142 TRACTION FAULT GUIDE

### HAZARD LIGHT LIT

Pass-comm activated  
TCA fault  
Brake mcb tripped  
Door open or release given  
Fire system operated(bottles used)

### BRAKE APPLICATION

Compressor speed-up on in any cab  
Brake in emergency any cab  
Couple button energized  
Train control tripped in front or intermediate cab.  
Brake control tripped any cab(hazard light lit)  
Pass-comm activated(hazard light lit)  
Main reservoir below 4.5 bar  
Door open/release given(hazard light lit)  
TPWS tripped  
Key in another cab  
Defective coupler  
Defective AWS  
Defective DSD  
Defective DVD  
Accidental division

### ENGINE TURNS BUT WILL NOT START

Fuel starvation  
Low coolant  
Low engine oil  
Fire system operated(bottles used)  
Fire isolation switch in cab operated (that engine wont fire)

### ENGINE WILL NOT TURN

Stop button stuck in(interior & local)  
Engine isolated  
Start battery isolated or low voltage  
No coolant  
Not in neutral  
Local control tripped  
Train control tripped  
Starter system defective  
Fire protection system fault

### THROTTLE CONTROL UNIT fault

Press reset, if does not work:  
Direction to off.  
Trip local control MCB.  
Press reset for 10 secs.  
Direction to neutral.  
Reset local control MCB.  
Start engine.

### BRAKES WONT RELEASE AFTER COUPLING

No air in other vehicle  
Mcb tripped in either unit  
Door open or release given on either unit  
Brake in emergency in other unit  
Coupling fault

### BRAKES WONT RELEASE AFTER UNCOUPLING

Coupling relay

### ENGINE SHUTS DOWN IN SERVICE

Fuel starvation  
Low coolant  
Low engine oil  
Local control tripped  
**Fire system operated**

### ENGINE REVERTS TO IDLE/LOSS OF POWER

Train control tripped in another cab(try tripping TIS or TCA)  
DRA set in leading cab  
Door problems  
Brake in step 2,3 or emergency  
High transmission oil or water temperature  
Throttle control unit  
Direction in off or neutral

### GEARBOX TRAIN LIGHT LIT

Wheel-slip  
Wheel-slide  
Speed probes failed on other vehicle  
Gearbox not changed direction  
Gearbox over-heating  
(local light will be lit in both cabs of that unit after 30 seconds)

### LOCAL DOOR WONT OPEN

Aux. Mcb tripped (crew door MCB on modified units)

### NO LIGHT IN ONE VEHICLE

Turn on compressor speed-up

### AWS DOES NOT SOUND WHEN KEY IS PUT IN

Starter battery isolated  
Flat battery  
AWS mcb tripped  
AWS isolated  
**AWS faulty**

### GEARBOX TRAIN & LOCAL LIGHTS LIT FOR MORE THAN 30 SECONDS

TCA fault  
TCA mcb tripped (try tripping local control)

### GEARBOX TRAIN & LOCAL LIGHTS LIT+SPEEDO TO ZERO

Both speed sensors failed on leading vehicle  
Wheel-slide

### ENGINES SHUT DOWN+BRAKES APPLY(WHILE MOVING)

Control + battery fuses blown

# CLASS 142 TRACTION FAULT GUIDE

## **HAZARD LIGHT LIT**

Pass-Comm activated **Reset or operate EBS**

TCA fault , gearbox train and local lights lit for more than 30 secs. **Try tripping LCCB or Isolate TCA**

Brake MCB tripped any cab **operate EBS in other cab then drive from that other cab.**

Door not closed or normalised ,waist lock,or doors released **Normalise local door.Push all doors and check LED not lit.**

Fire system operated,bottle used **Isolate engine to put out stop light, operate FIS to silence bells**

## **BRAKE APPLICATION**

Compressor speed-up on in any cab

Brake in emergency in any cab

Couple button energised in any cab **Press couple then uncouple buttons in external cabs.**

Train control tripped **Drive from another cab. TIS or/and EBS may be necessary also.**

Brake control tripped any cab **See above.**

Pass-comm activated **See above.**

Main reservoir below 4.5 bar dropping or below 5.5-6.5 bar rising.

Door not closed **See above.**

TPWS problem **Isolate TPWS or drive from another cab.**

Key in another cab,also should get buzzer and local control tripping.

DSD problem **Drive from another cab**

## **ENGINE REVERTS TO IDLE/LOSS OF POWER**

DRA set in leading cab.

Door problem **See above**

High oil,transmission or water temperature **also check hydrostatic oil level, check radiator vents not blocked**

Throttle control unit **Direction to off,trip LCCB,press reset for 10 secs,direction to neutral,reset LCCB, restart engine**

Direction in off or neutral or brake in step 2,3 or emergency.

Train control tripped in another cab. **TIS and/or EBS may be necessary.**

## **ENGINE SHUTS DOWN IN SERVICE**

Fuel starvation,low coolant, low engine oil, local control mcb tripped(**drive from other cab**), fire system operated.

## **ENGINE TURNS BUT WILL NOT START**

Fuel starvation, low coolant, low engine oil, fire system operated or faulty, FIS operated

## **ENGINE WILL NOT TURN**

Stop button stuck in (interior or local), engine isolated, starter battery isolated or flat, no coolant, not in neutral, starter defective, fire system fault, train control tripped, local control tripped.

## **GEARBOX TRAIN LIGHT LIT**

Wheel slip/slide, gearbox not changed direction, speed probes failed on other vehicle, gearbox overheating (local light will be lit in both cabs after 30 secs,(**try tripping LCCB**))

## **NO LIGHTS IN ONE VEHICLE** **Turn on compressor speed-up**

## **GEARBOX TRAIN AND LOCAL LIT + SPEEDO TO ZERO**

Wheel-slide or speed sensores failed on leading vehicle

## **AWS DOES NOT SOUND WHEN KEY IS PUT IN A DIRECTION**

Starter battery isolated or flat, AWS faulty or isolated or TPWS mcb tripped

## **BRAKES WONT RELEASE AFTER COUPLING**

No air in other unit, MCB tripped in any cab, door open in either unit, brake in emergency in any cab, coupling fault,compressor speed up on in any cab.

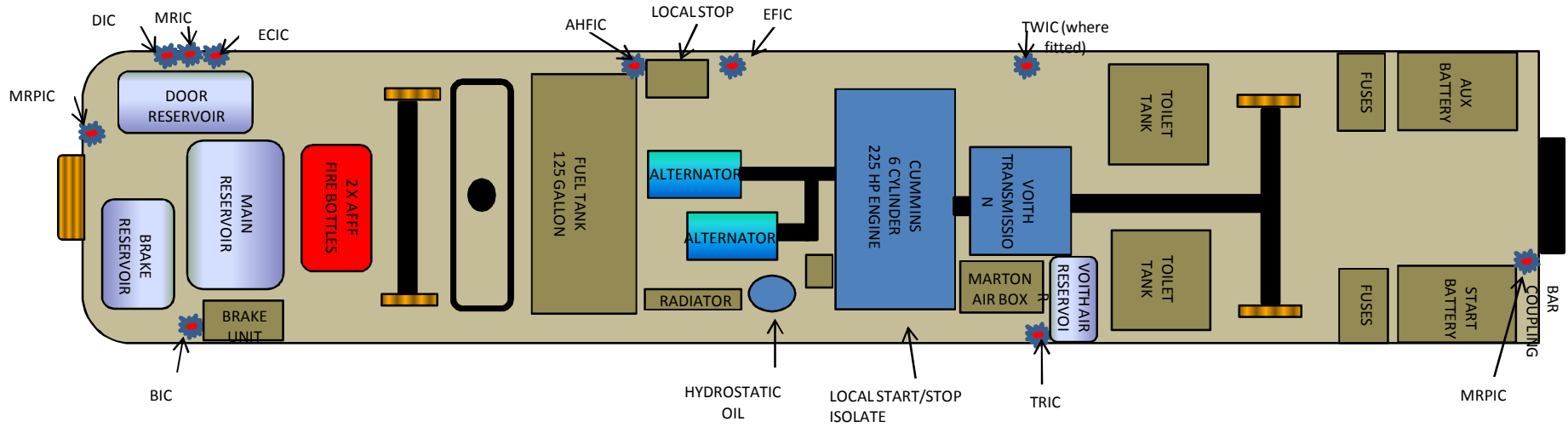
## **BRAKES WONT RELEASE AFTER UNCOUPLING**

Coupling relay **Press couple then uncouple. in both cabs**

## **ENGINES SHUT DOWN + BRAKES APPLY WHILST MOVING**

Control + battery fuses blown

## CLASS 142 PACER EXTERIOR



LENGTH 30.22 METRES  
4 UNITS MAY OPERATE IN MULTIPLE

PRIMARY SUSPENSION  
BSI COUPLER/BAR COUPLING BETWEEN VEHICLES

RIGID FOLDING POWER OPERATED  
DOORS  
MAXIMUM SPEED 75MPH

## CLASS 142 PACER INTERIOR

