

Troubleshooting

SIBS® / EMMA™ TROUBLESHOOTING GUIDE		
Issue / Description	Possible Cause	Solution
Low brake pedal	Faulty master cylinder or Incorrect adjustment of booster Input / output rods	Refer to Toyota Repair Manual for fault diagnosis
Excessive brake pedal travel (sudden or creeping) and loss of braking efficiency	Leaking or damaged brake line Air in the brake system Damaged service piston	Replace brake line – refer to Section 5 Bleed the brake system - refer to Section 5 Replace piston and seals
Spongy brake pedal	Air in the brake system	Bleed the brake system – refer to Section 5
Hard brake pedal	Vacuum booster or vacuum pump faulty	Check vacuum pressure not leaking
Excessive force required to operate the brake pedal and loss of braking efficiency	Damaged brake pads or polished rotor.	Replace brake pads, lightly scour all rotors with #240 grit wet and dry sandpaper.
Brakes drag	Incorrectly adjusted vacuum booster/master cylinder push rod	Refer to Toyota Repair Manual for adjustment

SIBS® / EMMA™ TROUBLESHOOTING GUIDE

Issue / Description	Possible Cause	Solution
Brakes are not releasing fully after operation	Seized or jammed service piston Seized or jammed EMMA piston Blocked or damaged brake line Damaged brake rod/hub assembly EMMA™ park brake hydraulic system faulty Faulty master cylinder	Replace or repair – Refer to Section 8 Replace or repair – Refer to Section 8 Refer to Section 5 Replace brake rotor and hub assembly – refer to Section 5 Check system operating pressure and hydraulic system leaks. Check for leaks in system and fluid lines – refer to Section 5 Check for correct operation of EMMA™ Charge Module – refer to Section 5 Refer Toyota Repair Manual for diagnosis
Vehicle pulls to one side during braking	Incorrect tyre pressures Blocked or damaged brake line Contamination of SIBS® oil – damaged oil seals Seized or jammed pistons Damaged brake pads or polished rotor.	Adjust to correct pressures Replace brake line – refer to Section 5 Isolate damaged seals and replace components and SIBS® oil Replace or repair – refer to Section 8 Replace brake pads, lightly scour all rotors with #240 grit wet and dry sandpaper.

SIBS [®] / EMMA [™] TROUBLESHOOTING GUIDE		
Brakes judder and/or pulsing pedal during braking	Damaged brake rotor or brake pads resulting from loss of SIBS [®] oil from housing	Check and identify cause and replace damaged components
EMMA [™] park brake will not release	<p>Cab door open (either side)</p> <p>Circuit breaker protecting motor has tripped.</p> <p>EMMA[™] park brake hydraulic system faulty</p> <p>EMMA[™] control switch will not operate</p>	<p>Close door and \or check door switch</p> <p>Investigate cause of current overload and rectify. Reset circuit breaker.</p> <p>Check system operating pressure</p> <p>If insufficient pressure check for hydraulic system leaks – replace faulty components</p> <p>Check & replace EMMA[™] control switch and wiring</p>
Oil leaks from EMMA [™] spring covers	Seals damaged, worn or backup rings fitted incorrectly	<p>Replace or reassemble seals</p> <p>Refer to Section 8</p>