

APPENDIX 3

MANUFACTORY REPAIR FLATE RATE FOR  
TOYOTA LC200 MODEL

| OPERATION                              | DESCRIPTION        | TIME |
|--|--------------------|------|
| Engine assembly                        |                    |      |
| Engine only - PAS+AC                   | Remove and Install | 11.8 |
| Full exchange engine - PAS+AC          | Remove and Install | 15   |
| Complete engine - PAS+AC               | Strip and Rebuild  | 49.8 |
| Cylinder block - PAS+AC                | Strip and Rebuild  | 29.7 |
| Mounting - left (of engine bay)        | Remove and Install | 11.4 |
| Mounting - right (of engine bay)       | Remove and Install | 11.4 |
| Lubrication                            |                    |      |
| Engine oil                             | Renew              | 0.5  |
| Oil filter                             | Remove and Install | 0.7  |
| Oil sump pan - upper - PAS+AC          | Remove and Install | 14.1 |
| Oil sump pan - lower                   | Remove and Install | 1.6  |
| Oil pump - PAS+AC                      | Remove and Install | 15.1 |
| Oil cooler                             | Remove and Install | 1    |
| Auxiliary drive                        |                    |      |
| Alternator drive/serpentine belt       | Remove and Install | 0.9  |
| Fan/serpentine belt                    | Remove and Install | 0.9  |
| Ignition system                        |                    |      |
| Ignition/fuel ECU combined             | Remove and Install | 0.4  |
| Spark plugs                            | Remove and Install | 0.9  |
| Ignition coil                          | Remove and Install | 0.5  |
| Engine (distributor) speed sensor      | Remove and Install | 2.5  |
| Knock sensor                           | Remove and Install | 2.7  |
| Air filter, manifolds & plenum chamber |                    |      |
| Air filter assembly                    | Remove and Install | 0.3  |
| Air filter element                     | Remove and Install | 0.2  |
| Intake manifold                        | Remove and Install | 4    |
| Intake manifold gasket                 | Remove and Install | 4.2  |
| Throttle controls                      |                    |      |
| Throttle pedal                         | Remove and Install | 0.3  |
| Diesel injection system                |                    |      |
| Control ECU                            | Remove and Install | 0.4  |
| Air flow/Mass sensor unit              | Remove and Install | 0.5  |
| Coolant temperature sensor             | Remove and Install | 1    |
| Camshaft position (CMP) sensor         | Remove and Install | 0.3  |
| Fuel filter                            | Remove and Install | 0.6  |
| Injection pump                         | Remove and Install | 4.9  |
| Injection pump - PAS                   | Remove and Install | 5.4  |
| Injectors (all)                        | Remove and Install | 4.7  |
| Injection pipe (one)                   | Remove and Install | 2.8  |
| Pre-heat plugs (all)                   | Remove and Install | 1.5  |
| Pre-heating system relay (one)         | Remove and Install | 0.1  |
| Throttle body                          | Remove and Install | 1.3  |
| Fuel supply diesel                     |                    |      |
| Fuel pump - in tank                    | Remove and Install | 2.2  |

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| Fuel tank                              | Remove and Install | 1.9  |
| Fuel filter (in-line)                  | Remove and Install | 0.6  |
| <b>Turbocharger</b>                    |                    |      |
| Turbocharger                           | Remove and Install | 11   |
| Turbocharger - AC                      | Remove and Install | 12.1 |
| Turbocharger boost pressure sensor     | Remove and Install | 0.9  |
| <b>Petrol injection system</b>         |                    |      |
| Injection/ignition ECU combined        | Remove and Install | 0.4  |
| Injectors (all)                        | Remove and Install | 2.4  |
| Air flow/mass sensor unit              | Remove and Install | 0.5  |
| Coolant temperature sensor             | Remove and Install | 1.1  |
| Throttle body                          | Remove and Install | 1.2  |
| Fuel pressure regulator                | Remove and Install | 0.6  |
| <b>Fuel supply petrol</b>              |                    |      |
| Fuel pump - in tank                    | Remove and Install | 2    |
| Fuel tank                              | Remove and Install | 1.8  |
| Fuel filter (in-line)                  | Remove and Install | 0.5  |
| Carbon filter                          | Remove and Install | 0.3  |
| <b>Radiator, fan &amp; intercooler</b> |                    |      |
| Coolant/antifreeze                     | Drain and Refill   | 0.6  |
| Cooling fan coupling                   | Remove and Install | 1.7  |
| Cooling fan                            | Remove and Install | 1.7  |
| Radiator - PAS                         | Remove and Install | 2.3  |
| Thermostat                             | Remove and Install | 2.7  |
| <b>Pump &amp; drive</b>                |                    |      |
| Water pump                             | Remove and Install | 2.8  |
| Water pump - PAS                       | Remove and Install | 3.9  |
| <b>Header tank &amp; hoses</b>         |                    |      |
| Header/expansion tank                  | Remove and Install | 0.3  |
| Radiator top hose                      | Remove and Install | 0.8  |
| Radiator bottom hose                   | Remove and Install | 0.9  |
| Header/expansion tank hose             | Remove and Install | 0.2  |
| By-pass hose                           | Remove and Install | 3.7  |
| <b>Manifold, pipes &amp; silencers</b> |                    |      |
| Exhaust manifold - left - AC           | Remove and Install | 12.3 |
| Exhaust manifold - right - AC          | Remove and Install | 12   |
| Exhaust manifold gasket - left - AC    | Remove and Install | 12.3 |
| Exhaust manifold gasket - right - AC   | Remove and Install | 12   |
| Manifold to downpipe gasket            | Remove and Install | 0.9  |
| Pipe - front/downpipe                  | Remove and Install | 0.8  |
| Pipe - middle/silencer                 | Remove and Install | 0.6  |
| Pipe - rear/tail/silencer              | Remove and Install | 0.4  |
| <b>Catalytic converter - diesel</b>    |                    |      |
| Catalytic converter                    | Remove and Install | 0.8  |
| Catalytic converter (both)             | Remove and Install | 1    |
| Exhaust gas recirculation valve        | Remove and Install | 4.1  |
| <b>Catalytic converter - petrol</b>    |                    |      |
| Lambda sensor - left/left front        | Remove and Install | 1.3  |
| Lambda sensor - left rear              | Remove and Install | 1.3  |
| Lambda sensor - right/right front      | Remove and Install | 1.3  |

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| Lambda sensor - right rear                                | Remove and Install | 1.3 |
| Lambda sensor (both)                                      | Remove and Install | 1.6 |
| <b>Torque converter &amp; driveplate</b>                  |                    |     |
| Converter   | Remove and Install | 8   |
| Converter centre seal                                     | Remove and Install | 8.5 |
| Driveplate  | Remove and Install | 8   |
| <b>Automatic transmission, housing &amp; fluid system</b> |                    |     |
| Transmission unit   | Remove and Install | 8.2 |
| Automatic transmission fluid                              | Drain and Refill   | 0.9 |
| Oil pan & gasket  | Remove and Install | 2.1 |
| <b>Control, governor &amp; valves</b>                     |                    |     |
| Solenoid valves   | Remove and Install | 2.2 |
| Manual selector lever                                     | Remove and Install | 1.4 |
| Valve block   | Remove and Install | 1.6 |
| <b>Propshaft, centre differential &amp; transfer box</b>  |                    |     |
| Propshaft - front/single                                  | Remove and Install | 1.1 |
| Propshaft - rear  | Remove and Install | 0.8 |
| Propshaft CV joint  | Remove and Install | 1.5 |
| Transfer box - AT   | Remove and Install | 8.1 |
| Transfer box output oil seal                              | Remove and Install | 1   |
| Transfer box output oil seal - front                      | Remove and Install | 1.3 |
| <b>Front axle</b>   |                    |     |
| Final drive   | Remove and Install | 3.4 |
| Final drive   | Drain and Refill   | 0.4 |
| Final drive pinion oil seal                               | Remove and Install | 1.5 |
| Driveshaft - left   | Remove and Install | 2   |
| Driveshaft - right  | Remove and Install | 2   |
| Driveshaft (both)   | Remove and Install | 2.7 |
| Driveshaft joint gaiter - both left                       | Remove and Install | 2.3 |
| Driveshaft joint gaiter - both right                      | Remove and Install | 2.3 |
| Driveshaft joint gaiter (all)                             | Remove and Install | 3.3 |
| Wheel bearing set   | Remove and Install | 1.7 |
| Wheel bearing set (both)                                  | Remove and Install | 2.6 |
| Hub assembly  | Remove and Install | 1.5 |
| Hub assembly (both)                                       | Remove and Install | 2.3 |
| <b>Rear axle</b>  |                    |     |
| Rear axle - complete                                      | Remove and Install | 4.9 |
| Final drive   | Remove and Install | 3.2 |
| Final drive   | Drain and Refill   | 0.4 |
| Final drive pinion oil seal                               | Remove and Install | 1.3 |
| Halfshaft   | Remove and Install | 1.4 |
| Halfshaft (both)  | Remove and Install | 2.4 |
| Wheel bearing set   | Remove and Install | 1   |
| Wheel bearing set (both)                                  | Remove and Install | 1.6 |
| <b>Front suspension</b>                                   |                    |     |
| Road spring   | Remove and Install | 1.2 |
| Road spring (both)  | Remove and Install | 1.6 |
| Shock absorber  | Remove and Install | 1.1 |
| Shock absorbers (pair)                                    | Remove and Install | 1.6 |
| Suspension upper arm                                      | Remove and Install | 1.4 |

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| Suspension upper arm (both)      | Remove and Install | 2    |
| Suspension lower arm             | Remove and Install | 1.6  |
| Suspension lower arm (both)      | Remove and Install | 2.1  |
| Anti-roll bar                    | Remove and Install | 1.9  |
| Anti-roll bar bush - outer (one) | Remove and Install | 0.5  |
| Anti-roll bar bushes (all)       | Remove and Install | 0.7  |
| Swivel hub/stub axle assembly    | Remove and Install | 1.6  |
| Rear suspension                  |                    |      |
| Road spring                      | Remove and Install | 0.9  |
| Road spring (both)               | Remove and Install | 1.1  |
| Shock absorber                   | Remove and Install | 0.7  |
| Shock absorbers (pair)           | Remove and Install | 1.7  |
| Suspension lower arm             | Remove and Install | 0.4  |
| Suspension lower arm (both)      | Remove and Install | 0.5  |
| Anti-roll bar                    | Remove and Install | 1.3  |
| Anti-roll bar bushes (all)       | Remove and Install | 0.4  |
| Suspension control               |                    |      |
| Suspension control module        | Remove and Install | 0.6  |
| Steering geometry                |                    |      |
| Geometry - complete vehicle      | Check              | 1.2  |
| Geometry - complete vehicle      | Check and Adjust   | 1.5  |
| Front wheel alignment (toe)      | Check and Adjust   | 0.7  |
| Camber - front                   | Check and Adjust   | 1.3  |
| Steering mechanism               |                    |      |
| Steering rack/box                | Remove and Install | 13.3 |
| Rack gaiter                      | Remove and Install | 1    |
| Track rod                        | Remove and Install | 13.5 |
| Track rod end joint              | Remove and Install | 0.9  |
| Track rod end joint (both)       | Remove and Install | 1.1  |
| Steering column                  |                    |      |
| Steering wheel                   | Remove and Install | 0.5  |
| Steering column                  | Remove and Install | 1.2  |
| Steering column shroud           | Remove and Install | 0.5  |
| Power assisted steering          |                    |      |
| Pump                             | Remove and Install | 1.4  |
| High pressure hose               | Remove and Install | 1.5  |
| Pump coupling - petrol           | Remove and Install | 1.7  |
| Wheels                           |                    |      |
| Wheels - (all)                   | Remove and Install | 0.8  |
| Braking system hydraulics        |                    |      |
| Hydraulic system                 | Bleed              | 1.1  |
| Master cylinder                  | Remove and Install | 2.2  |
| Front brake caliper (one)        | Remove and Install | 1.1  |
| Front brake caliper (both)       | Remove and Install | 1.3  |
| Rear brake caliper (one)         | Remove and Install | 1    |
| Rear brake caliper (both)        | Remove and Install | 1.1  |
| Front brake hose (one)           | Remove and Install | 0.9  |
| Rear brake hose (one)            | Remove and Install | 0.9  |
| Footbrakes                       |                    |      |
| Front brake pads (all)           | Remove and Install | 0.7  |

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| Rear brake pads (all)                      | Remove and Install | 0.6 |
| Front brake disc (both)                    | Remove and Install | 0.9 |
| Rear brake disc (both)                     | Remove and Install | 0.9 |
| Rear backplate (one)                       | Remove and Install | 1   |
| Brake pedal & servo                        |                    |     |
| Pedal assembly                             | Remove and Install | 0.8 |
| Servo                                      | Remove and Install | 2.1 |
| Vacuum pump - diesel                       | Remove and Install | 1   |
| ABS or ABS/ESP                             |                    |     |
| Wheel sensor - front (one)                 | Remove and Install | 0.4 |
| Wheel sensor - front (both)                | Remove and Install | 0.5 |
| Wheel sensor - rear (one)                  | Remove and Install | 0.4 |
| Wheel sensor - rear (both)                 | Remove and Install | 0.5 |
| Parking brake                              |                    |     |
| Parking brake freeplay                     | Check and Adjust   | 0.5 |
| Parking brake lever                        | Remove and Install | 1.5 |
| Parking brake cables - (both) equal length | Remove and Install | 2.4 |
| Parking brake pads/shoes (all)             | Remove and Install | 1.1 |
| Battery & cables                           |                    |     |
| Battery                                    | Check              | 0.3 |
| Battery                                    | Remove and Install | 0.3 |
| Charging system                            |                    |     |
| Alternator                                 | Remove and Install | 2.5 |
| Starting system                            |                    |     |
| Starter motor - pre-engaged                | Remove and Install | 4.1 |
| Starter motor solenoid                     | Remove and Install | 4.2 |
| Bulbs                                      |                    |     |
| Headlamp bulb                              | Remove and Install | 0.2 |
| Rear combination bulb (any)                | Remove and Install | 0.3 |
| Front lamps                                |                    |     |
| Headlamp alignment                         | Check and Adjust   | 0.3 |
| Headlamp - one                             | Remove and Install | 1.3 |
| Fog lamp - one                             | Remove and Install | 0.3 |
| Side repeater lamp - one                   | Remove and Install | 0.2 |
| Rear lamps                                 |                    |     |
| Rear combination lamp assembly             | Remove and Install | 0.4 |
| Number plate lamp - one                    | Remove and Install | 0.2 |
| High mounted brake lamp                    | Remove and Install | 0.2 |
| Interior lamps                             |                    |     |
| Interior lamp - front                      | Remove and Install | 0.2 |
| Interior lamp - rear                       | Remove and Install | 0.2 |
| Switches                                   |                    |     |
| Ignition switch                            | Remove and Replace | 0.4 |
| Main lighting switch                       | Remove and Install | 0.5 |
| Dip/main/flash switch                      | Remove and Install | 0.5 |
| Horn switch                                | Remove and Install | 0.3 |
| Wash/wipe switch                           | Remove and Install | 0.5 |
| Hazard warning lights switch               | Remove and Install | 0.5 |
| Inhibitor switch                           | Remove and Install | 0.5 |
| Reversing lights switch                    | Remove and Install | 7.3 |

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| Stop lamps switch                              | Remove and Install | 0.2 |
| Parking brake warning lamp switch              | Remove and Install | 0.4 |
| Front door lamp switch                         | Remove and Install | 0.2 |
| Rear door lamp switch                          | Remove and Install | 0.2 |
| <b>Instruments</b>                             |                    |     |
| Instrument panel                               | Remove and Install | 0.6 |
| Instrument panel LCD unit                      | Remove and Install | 0.5 |
| Clock  | Remove and Install | 0.5 |
| Cigarette lighter                              | Remove and Install | 0.2 |
| <b>Transducers, sensors &amp; transmitters</b> |                    |     |
| Horn   | Remove and Install | 0.3 |
| Oil pressure transmitter                       | Remove and Install | 0.7 |
| Speedo drive sensor                            | Remove and Install | 0.4 |
| Coolant temperature sensor                     | Remove and Install | 1   |
| Fuel level sensor                              | Remove and Install | 2   |
| <b>Fusebox &amp; Relays</b>                    |                    |     |
| Headlamps relay                                | Remove and Install | 0.1 |
| Heated rear window relay                       | Remove and Install | 0.1 |
| <b>Motors</b>                                  |                    |     |
| Front wiper motor                              | Remove and Install | 0.5 |
| Rear wiper motor                               | Remove and Install | 0.3 |
| Front washer motor                             | Remove and Install | 0.7 |
| Rear washer motor                              | Remove and Install | 0.7 |
| Headlamp washer motor                          | Remove and Install | 0.7 |
| Front window lift motor                        | Remove and Install | 0.7 |
| Rear door window lift motor                    | Remove and Install | 0.6 |
| <b>Control &amp; audio units</b>               |                    |     |
| Radio/cassette unit                            | Remove and Install | 0.5 |
| CD player                                      | Remove and Install | 0.5 |
| Roof aerial/antenna                            | Remove and Install | 2.1 |
| Roof aerial/antenna - cable                    | Remove and Install | 4   |
| <b>Windscreen wipers/washers</b>               |                    |     |
| Wiper arm - (both)                             | Remove and Install | 0.3 |
| Wiper linkage                                  | Remove and Install | 0.5 |
| Washer jet - (both)                            | Remove and Install | 0.4 |
| Washer reservoir                               | Remove and Install | 0.7 |
| <b>Headlamp wipers/washers</b>                 |                    |     |
| Washer jet - one                               | Remove and Install | 1.1 |
| <b>Rear screen wipers/washers</b>              |                    |     |
| Wiper arm                                      | Remove and Install | 0.2 |
| Washer jet                                     | Remove and Install | 0.3 |
| <b>Heating &amp; ventilation system</b>        |                    |     |
| Heater unit - complete                         | Remove and Install | 5   |
| Heater hose - from engine                      | Remove and Install | 1.6 |
| Heater hose - to engine                        | Remove and Install | 1.6 |
| Heater matrix                                  | Remove and Install | 3.4 |
| Heater matrix - AC                             | Remove and Install | 4.4 |
| Heater blower motor                            | Remove and Install | 3.4 |
| <b>Air conditioning</b>                        |                    |     |
| System evacuation/recharging                   | Check and Adjust   | 0.7 |

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| Receiver/drier                               | Remove and Install | 2.2 |
| Compressor                                   | Remove and Install | 3.7 |
| Expansion valve - front                      | Remove and Install | 3.9 |
| Expansion valve - rear                       | Remove and Install | 1.6 |
| Condenser                                    | Remove and Install | 2.1 |
| Evaporator - front                           | Remove and Install | 4.4 |
| Switch - high/triple pressure                | Remove and Install | 1.6 |
| Blower control module/resistor - rear        | Remove and Install | 1.6 |
| Blower relay                                 | Remove and Install | 0.1 |
| Interior/Seats/Seatbelts                     |                    |     |
| Airbag - driver                              | Remove and Replace | 0.3 |
| Airbag - passenger                           | Remove and Replace | 2.4 |
| Airbag curtain - one                         | Remove and Replace | 2.1 |
| Airbag curtain - (both)                      | Remove and Replace | 2.3 |
| Airbag control module                        | Remove and Install | 4.2 |
| Airbag spiral cable/slip ring (clock spring) | Remove and Replace | 0.6 |
| Front seat belt                              | Remove and Install | 0.4 |