

ANNEX 7

MANUFACTORY REPAIR FLATE RATE FOR RENOULT DUSTER 1.6 SCE 115 MODEL

OPERATION	DESCRIPTION	TIME
Engine assembly		
Engine & transmission complete	Remove and Install	9.6
Cylinder block - PAS+AC	Strip and Rebuild	11.7
Mounting - front (of engine bay)	Remove and Install	0.8
Cylinder head		
Camshaft/valve cover & gasket	Remove and Install	1.8
Cylinder head gasket - PAS+AT	Remove and Install	8.3
Valves (all) including lapping - PAS+AC	Remove and Install	6.2
Valve stem oil seals (all) - PAS+AC	Remove and Install	9.5
Crankshaft & pistons		
Crankshaft front oil seal	Remove and Install	0.5
Crankshaft rear oil seal - AT	Remove and Install	6.8
Crankshaft pulley	Remove and Install	0.8
Lubrication		
Engine oil	Renew	0.7
Oil filter	Remove and Install	0.1
Oil sump pan	Remove and Install	2.1
Oil pump	Remove and Install	1.5
Oil Pump drive chain	Remove and Install	1.7
Auxiliary drive		
Auxiliary drive belt	Check and Adjust	0.2
Auxiliary drive belt	Remove and Install	0.4
Air filter, manifolds & plenum chamber		
Air filter assembly	Remove and Install	0.7
Air filter element	Remove and Install	0.2
Intake manifold	Remove and Install	1.4
Ignation System		
Fuel sustem control unit	Remove and Install	0.3
Spark plugs	Remove and Install	0.7
Ignition coil	Remove and Install	0.5
Speed sensor(in distributor)	Remove and Install	0.2
Crankshaft speed sensor	Remove and Install	0.2
Knock sensor	Remove and Install	0.2
Fuel supply		
Fuel tank	Remove and Install	1.4
Radiator, fan & intercooler		
Coolant/antifreeze	Drain and Refill	0.4
Cooling fan	Remove and Install	0.6
Radiator - AC	Remove and Install	1
Thermostat	Remove and Install	1.1
Pump & drive		
Water pump - AC	Remove and Install	1.3
Header tank & hoses		

Header/expansion tank	Remove and Install	0.2
Manifold, pipes & silencers		
Exhaust manifold	Remove and Install	1.1
Pipe - front/downpipe	Remove and Install	1.8
Pipe - rear/tail/silencer	Remove and Install	0.6
Clutch pedal, linkage & hydraulics		
Pedal - LHD	Remove and Install	0.5
Hydraulic release system	Bleed	0.3
Master cylinder - LHD	Remove and Install	0.8
Release bearing	Remove and Install	8.4
Clutch unit & flywheel		
Clutch plate, cover & release bearing	Remove and Install	8.4
Flywheel	Remove and Install	6.7
Gearbox unit & casing		
Gearbox	Remove and Install	6.8
Gearbox mounting (rear)	Remove and Install	0.8
Gearbox oil - renew	Drain and Refill	0.6
Gear control, linkage & selectors		
Lever	Remove and Install	0.2
Gears, bearings & seals		
Speedometer driven gear	Remove and Install	0.6
Input shaft oil seal	Remove and Install	2.9
Propshaft & transfer case		
Propshaft - assembly	Remove and Install	0.7
Transfer case	Remove and Install	1.9
Transfer Case	Drain and Refill	0.5
Front axle		
Drive shaft Left	Remove and Install	1.3
Drive shaft Right	Remove and Install	1
Hub assembly	Remove and Install	1.2
Hub assembly (both)	Remove and Install	2
Rear axle		
Final drive	Remove and Install	3
Drive Shaft Right	Remove and Install	0.8
Drive Shaft Both	Drain and Refill	1.3
Hub bearings Both	Remove and Install	2.1
Front suspension		
Shock absorber	Remove and Install	0.8
Shock absorbers (pair)	Remove and Install	1.4
Sway Bar	Remove and Install	1.5
Suspension lower arm	Remove and Install	1.7
Ball joint - upper	Remove and Install	1.5
Stabilizer links-External Both	Remove and Install	0.7
Rear suspension		
Road spring	Remove and Install	0.8
Road spring (both)	Remove and Install	1.4
Shock absorber	Remove and Install	0.7
Shock absorbers (pair)	Remove and Install	1.4
Sway Bar	Remove and Install	0.5
Steering geometry		

Geometry - complete vehicle	Check	1.2
Front wheel alignment (toe)	Check and Adjust	0.7
Steering mechanism		
Steering gear	Remove and Install	4.5
Rack Boot	Remove and Install	1.7
Track Rod	Remove and Install	0.7
Track rod end joint	Remove and Install	1.5
Steering column		
Steering wheel	Remove and Install	0.6
Steering column	Remove and Install	1.4
Steering column lock - Airbag	Remove and Install	0.8
Steering column cover	Remove and Install	0.2
Braking system hydraulics		
Hydraulic system	Bleed	0.5
Fluid reservoir (separate)	Remove and Install	0.5
Master cylinder LHD	Remove and Install	0.8
Front brake caliper (one)	Remove and Install	1
Front brake caliper (both)	Remove and Install	1.4
Rear brake hose	Remove and Install	0.6
Rear brake caliper (both)	Remove and Install	1.5
Rear brake hose (one)	Remove and Install	0.6
Footbrakes		
Front brake pads (all)	Remove and Install	0.7
Rear brakes shoes (all)	Remove and Install	1.2
Front brake disc (both)	Remove and Install	1
Rear brake drum (both)	Remove and Install	0.7
Brake pedal & servo		
Pedal - LHD	Remove and Install	0.7
Servo - LHD	Remove and Install	1.2
Vacuum brake booster check valve	Remove and Install	0.2
ABS or ABS/ESP		
ECU	Remove and Install	0.7
Wheel sensor - front (one)	Remove and Install	0.7
Wheel sensor - front (both)	Remove and Install	1.1
Wheel sensor - rear (one)	Remove and Install	0.7
Wheel sensor - rear (both)	Remove and Install	0.9
Parking brake		
Parking brake freeplay	Check and Adjust	0.3
Parking brake lever	Remove and Install	0.5
Parking brake cable - primary/single	Remove and Install	0.6
Battery & cables		
Battery	Remove and Install	0.2
Charging system		
Alternator - AC	Remove and Install	1.1
Voltage regulator	Remove and Install	0.3
Starting system		
Starter motor - pre-engaged	Remove and Install	0.7
Bulbs & LEDs		
Headlamp bulb	Remove and Install	0.3
Rear combination bulb (any)	Remove and Install	0.3

Front lamps		
Headlamp alignment	Check and Adjust	0.3
Headlamp - one	Remove and Install	0.2
Direction indicator lamp - one	Remove and Install	0.2
Direction indicator lamp lens	Remove and Install	0.2
Side repeater lamp - one	Remove and Install	0.2
Rear lamps		
Rear combination lamp assembly	Remove and Install	0.2
Number plate lamp - one	Remove and Install	0.2
Interior lamps		
Interior lamp - front	Remove and Install	0.2
Interior lamp - rear	Remove and Install	0.2
Switches		
Starter/ignition switch	Remove and Install	0.6
Direction indicator switch	Remove and Install	0.8
Wash/wipe switch	Remove and Install	0.8
Instruments		
Instrument panel	Remove and Install	0.3
Transducers, sensors & transmitters		
Horn	Remove and Install	0.2
Oil Pressure Sensor	Remove and Install	0.5
Fuel level sensor	Remove and Install	0.3
Fusebox & Relays		
Headlamps relay	Remove and Install	0.2
Indicator relay/flasher unit	Remove and Install	0.2
Intermittent wiper relay	Remove and Install	0.2
Horn relay	Remove and Install	0.2
Motors		
Front wiper motor	Remove and Install	0.7
Rear wiper motor	Remove and Install	0.3
Control & audio units		
Audio System unit	Remove and Install	1
Windscreen wipers/washers		
Wiper arm	Remove and Install	0.2
Washer jet - one	Remove and Install	0.2
Washer jet - (both)	Remove and Install	0.2
Washer reservoir	Remove and Install	0.4
Rear screen wipers/washers		
Wiper arm	Remove and Install	0.1
Washer jet	Remove and Install	0.1
Heating & ventilation system		
Heater unit - complete	Remove and Install	3.6
Heater hose - from engine	Remove and Install	0.9
Heater hose - to engine	Remove and Install	0.9
Heater matrix - LHD	Remove and Install	3.7
Heater blower motor	Remove and Install	0.6
Heater blower control module/resistor - front	Remove and Install	0.3
Air conditioning		
System evacuation/recharging	Check and Adjust	0.6
Compressor	Remove and Install	2.5

Capacitor	Remove and Install	1.9
Capasitor Fan motor	Remove and Install	2
Line from compressor to codenser	Remove and Install	1.7