

A

Adjust-O-Tilt steering column 11-23
 Adjustable advance control timing light
 procedure 4A-31
 Adjustment, antenna trimmer 3-76
 Adjustment, clutch 5-1
 Adjustment, clutch cover release lever 5-9
 Adjustment, manual linkage-automatic
 transmission 7-22
 Adjustment, neutral switch 7-23
 Adjustment, parking brake-all models 9-1
 Adjustment, steering gear (power) 11-57
 Adjustment, tailgate glass 16-4
 Adjustment, turning angle, front axle 10-10
 Adjustment, wheel bearing, front-Cke-Wag-Trk ... 9-44
 Adjustment, wheel bearing, front, CJ models 9-44
 Adjustment, wheel bearing, rear axle 9-45
 Adjustments (brakes) 9-1
 Adjustments, door (CJ) 15-1
 Air cleaner 4-1
 Air conditioning 13A-1
 Air conditioning system 13A-1
 Air guard system 4A-7
 Air injection manifolds 4A-10
 Air pump 4A-7
 Air pump diagnosis 4A-8
 Alignment, axle 14-2
 Alignment, clutch housing 5-6
 Alignment, frame 14-2
 Alignment, front wheel 11-39
 Alignment, steering column 11-1
 Alignment, steering wheel spoke 11-40
 Alternator belt adjustment (six-cylinder with
 air conditioning) 2-10
 Alternator removal and installation 3-15
 Alternator, Delco 3-19
 Alternator, Motorcraft 3-9
 Altitude compensation circuit 4-19
 Ammeter 3-57
 Antenna trimmer adjustment 3-76
 Approved brake fluids 9-13
 Armature tests 3-36
 Assembly-Trak-Lok differential 10-35
 Assembly-steering gear housing components 11-57
 Assembly, rocker arm (V-8) 1B-12
 Audible vibration 10-2
 Automatic transmission 7-1
 Automatic transmission, pressure test procedure ... 7-7
 Axle alignment 14-2
 Axle housing (front) 10-4
 Axle housing (rear axle) 10-11
 Axle identification 10-3
 Axle models 30-44-60, overhaul 10-25
 Axle shaft 10-5
 Axle shaft and bearing replacement (rear axle) ... 10-12
 Axle shaft seal 10-9

Axle shaft universal joint 10-6
 Axle specifications 10-38
 Axle testing and diagnosis 10-1
 Axle tests 10-1
 Axle, front 10-3
 Axle, rear 10-11
 Axles-propeller shafts 10-1

B

Backup lamps and switches 3-71
 Balancing, wheels 9-44
 Ball stud, steering knuckle 10-8
 Batteries 3-2
 Batteries and ground connections 3-1
 Battery capacity rating chart 3-2
 Battery charging 3-3
 Battery diagnosis and repair simplification
 (DARS chart) 3-5
 Battery maintenance 3-4
 Battery testing 3-5
 Bearing, throwout 5-6
 Bearings, connecting rod 1B-30
 Bearings, connecting rod (six-cyl.) 1A-28
 Bearings, crankshaft main 1B-36
 Bearings, crankshaft main (six-cyl.) 1A-34
 Belt adjustment-V-8 engine with air
 conditioning 2-10
 Belt adjustment, fan and alternator belt
 adjustment 2-10
 Belt tension, engine drive 2-16
 Belts, seat 19-4
 Bleeding, brake system 9-20
 Block, cylinder 1B-27
 Block, cylinder 2-14
 Blower motor 13-7
 Blown cylinder head gasket diagnosis 1B-10
 Bodies 14-1
 Body construction 14-1
 Brake diagnosis 9-1
 Brake fluids, approved 9-13
 Brake hydraulic system 9-13
 Brake specifications 9-47
 Brake system bleeding 9-20
 Brakes and wheels 9-1
 Brakes, drum 9-21
 Bumpers 14-1
 Bumpers 14-13
 Bushing, crankshaft pilot 5-6

Distributor	4A-30
Distributor cap	4A-30
Distributor component replacement	3-52
Distributor replacement	3-51
Distributor rotor	4A-30
Diverter (bypass) valve	4A-9
Door adjustments (CJ)	15-1
Door adjustments (Cke, Wag, Trk)	15-4
Door glass (CJ)	15-2
Door latch replacement (CJ)	15-2
Door locking rod	15-6
Door rubber sealer (CJ)	15-3
Door trim panels	15-1
Door trim panels (Cke, Wag, Trk)	15-4
Doors	14-8
Doors and rear quarter	15-1
Draining coolant	2-9
Drive belt arrangement, engine	2-17
Drive chain tension inspection (Quadra-Trac)	8-14
Driveline vibration	10-2
Driven plate	5-5
Drum brake service diagnosis-all models	9-3
Drum brakes	9-21

E

EGR, CTO switch	4A-13
EGR delay valve	4A-15
EGR valve	4A-11
EGR valve maintenance-Cherokee-Wagoneer	
Truck	4A-13
EGR valve replacement	4A-13
EGR valve with integral back-pressure sensor	4A-12
EGR valve without back-pressure sensor	4A-12
Electrical	3-1
Electrical specifications	3-97
Electrical tailgate window	16-5
Electrically operated tailgate window	3-86
Emergency drive	8-12
Emergency flasher, 4-way (hazard warning)	3-74
Emission components-Cherokee, Wagoneer and	
Truck	4A-41
Emission components-CJ models	4A-40
Emission control maintenance	4A-27
Emission control services, US, charts 4 and 5	B-3
Emission controls	4A-1
Emission controls-exhaust systems	4A-1
Engine assembly, short	1B-39
Engine assembly, short (short block) (six-cyl.)	1A-36
Engine block heater	2-14
Engine build date code (six-cylinder engine)	1A-2
Engine drive belt arrangement	2-17

Engine drive belt tension	2-16
Engine flushing	2-14
Engine idle speed and mixture setting	
procedures	4A-32
Engine installation (V-8)	1B-11
Engine installation (six-cyl.)	1A-9
Engine modifications	4A-10
Engine mounting	1B-5
Engine mounting (six-cylinder)	1A-8
Engine oil viscosity	B-3
Engine removal (V-8)	1B-11
Engine removal (six-cylinder)	1A-8
Engine spark knock (ping)	3-42
Engine, V-8	1B-1
Engine, six-cylinder	1A-1
Evacuating the system (A/C)	13A-7
Evaporator housing assembly (A/C)	13A-19
Exhaust back-pressure sensor-non-integral	4A-14
Exhaust gas recirculation (EGR) system	4A-11
Exhaust manifold (V-8)	1B-15
Exhaust manifold heat valve	4A-36
Exhaust systems	4A-1
Exhaust systems	4A-36
Exhaust valve rotator (six-cyl.)	1A-11
Expansion valve service (A/C)	13A-21
Exterior decals	20-9
Exterior wood grain overlays	20-12

F

Fan and alternator belt adjustment	2-10
Fan control switch	13-4
Fan replacement	2-13
Fan, tempatrol, test	2-7
Fasteners, Torx head	A-6
Fenders	14-1
Field circuit open or ground test (alternator	
removed)	3-13
Field coil replacement	3-39
Field grounded circuit test	3-36
Fill level, master cylinder	9-13
Filter, oil	1B-25
Filters, fuel	4-2
Fluid capacities	B-11
Fluid change, Quadra-Trac transfer case	B-9
Fluid level and initial operation (power	
steering pump)	11-63
Fluid level checks-all models	B-5
Flywheel	5-6
Flywheel and starter ring gear assembly (V-8)	1B-38
Flywheel and starter ring gear assembly (six-cyl.)	1A-36

Folding windshield 17-4
 Frame alignment 14-2
 Frame straightening 14-2
 Fresh air ventilation 13-3
 Front axle 10-3
 Front axle housing 10-4
 Front axle installation 10-10
 Front axle removal 10-10
 Front axle windup control device 12-1
 Front door glass 15-7
 Front door vent assembly 15-7
 Front door window regulator 15-7
 Front end shimmy 11-40
 Front fender and apron 14-11
 Front seat assembly service 19-2
 Front wheel alignment 11-39
 Front wheel bearing adjustment-CJ models 9-44
 Front wheel bearing adjustment-Cherokee,
 Wagoneer, Truck 9-44
 Fuel and temperature gauge diagnosis guide-CJ
 models 3-60
 Fuel and temperature gauge diagnosis guide-
 Cherokee, Wagoneer, Truck 3-62
 Fuel and temperature gauge replacement (cluster
 removed) 3-61
 Fuel filters 4-2
 Fuel gauge and sending unit 3-58
 Fuel gauge calibration-all models 3-58
 Fuel or temperature gauge tests 3-58
 Fuel pump 4-5
 Fuel pump specifications 4-6
 Fuel pump testing 4-6
 Fuel requirements B-1
 Fuel return system 4-4
 Fuel system 4-1
 Fuel tank 4-2
 Fuel tank 4A-17
 Fuel tank capacities (gallons) 4-2
 Fuel tank filler cap 4-4
 Fuel tank filler cap 4A-17
 Fuel tank filler tube 4-4
 Fuel tank sending unit 4-2
 Fuel tank sending unit replacement 3-61
 Fuel tank vapor emission control system 4A-17
 Fuel tank vent-California Cherokee,
 Wagoneer, Truck and all CJ models 4-4
 Fuel vapor storage canister 4A-18
 Fuel-carburetion 4-1
 Fusible links 3-29

G

Galvanized panels 14-8
 General dimensions (inches) A-10

General information-vehicle identification A-1
 Glass replacement, tailgate 16-4
 Glass, front door 15-7
 Glass, rear door 15-8
 Glass, sight 13A-7
 Glass, vent window 15-10
 Glove box assembly 18-3
 Governor valve 7-24
 Grille insert, Wagoneer 14-10
 Grilles, radiator 14-9
 Ground connections 3-1

H

Handle, window regulator 15-1
 Hardtop enclosure 20-2
 Hardtop enclosure and liftgate 20-2
 Harness connector, main 3-2
 Headlamp aiming procedure 3-66
 Headlamp replacement 3-66
 Headlamp switch 3-67
 Headlamp switch replacement 3-67
 Headlamps 3-66
 Headlining 20-1
 Headlining-hardtop enclosure-exterior decals
 and overlays 20-1
 Heater and defroster 13-1
 Heater and defroster operation 13-2
 Heater control panel 13-5
 Heater core 13-6
 Heater, engine block 2-14
 High steering effort 10-4
 Hinge replacement (CJ) 15-2
 Hinge replacement (Cke, Wag, Trk) 15-4
 Hood bumper 14-13
 Hood lock 14-13
 Hoods 14-1
 Hoods 14-12
 Horns and horn relay 3-74
 Hose and belt inspection 2-9
 Hub replacement, rear axle, CJ models 10-12
 Hydraulic system (brakes) 9-13
 Hydraulic system operation 7-3
 Hydraulic valve tappets (V-8) 1B-18
 Hydraulic valve tappets (six-cyl.) 1A-16
 Hydrometer test 3-5

I

Identification (V-8) 1B-1
 Identification (axle) 10-3



Identification (rear axle)	10-11
Identification (six-cylinder engine)	1A-1
Identification, camshaft	1B-23
Identification, radiator	2-13
Ignition coil	3-41
Ignition switch	3-64
Ignition switch test	3-65
Ignition system	3-40
Ignition system diagnosis	3-42
Ignition system diagnosis and repair simplification (DARS) chart	3-42
Ignition system test	3-47
Ignition wires and spark plugs	3-42
Installation, clutch	5-9
Installation, steering knuckle	10-8
Instrument cluster	3-54
Instrument cluster and instrument panel components	3-54
Instrument illumination	3-56
Instrument panel	18-2
Instrument panel and mounted assemblies	18-1
Intake and exhaust manifolds (six-cyl.)	1A-12
Intake manifold (V-8)	1B-14

K

Key lock	15-4
Keys and locks	A-5

L

Lamp, license plate	3-71
Lamps, courtesy and dome	3-72
Lamps, parking, side marker and directional	3-68
Latch and remote control	15-6
Leakage, oil cooler	2-9
Leaks, checking for (A/C)	13A-9
License plate lamp	3-71
Liftgate	20-6
Liftgate, hardtop enclosure and	20-2
Lighting systems	3-66
Lighting systems-directional signal switch- horns	3-66
Linkage, choke	4A-36
Linkage, steering	11-37
Links, fusible	3-29
Liquid check valve	4A-18
Lock cylinder coding	15-6
Lock, key, tailgate	16-6

Lock, remote control, tailgate	16-4
Low range-reduction unit operation	8-12
Lubricants, recommended	B-10
Lubrication and stick slip correction	8-13
Lubrication system	1B-2
Lubrication system (six-cylinder engine)	1A-3
Lubrication, chassis-Cherokee-Wagoneer- Truck	B-8
Lubrication, chassis-CJ models	B-7
Luggage rack	16-1
Luggage rack	16-7

M

Magnetic clutch	13A-16
Main bearing fitting chart (V-8)	1B-37
Main bearing fitting chart (six-cyl.)	1A-35
Main harness connector	3-2
Maintenance	B-1
Maintenance, PCV air inlet filter	4A-21
Maintenance, battery	3-4
Maintenance, emission control	4A-27
Maintenance, unscheduled	B-10
Manifold, exhaust (V-8)	1B-15
Manifold, intake (V-8)	1B-14
Manual linkage adjustment	7-22
Manual steering gear	11-29
Manual transmission	6-1
Master cylinder	9-14
Master cylinder fill level	9-13
Master cylinder service-all models	9-14
Measurement, connecting rod side clearance (V-8)	132
Measurement, crankshaft end play (six-cyl.)	1A-33
Measuring bearing clearance with plastigage (six-cyl.)	1A-35
Measuring main bearing clearance with plastigage (V-8)	1B-37
Measuring main bearing journal with a micrometer (six-cyl.)	1A-34
Measuring main bearing journal with a micrometer (V-8)	1B-38
Mechanical maintenance schedule	B-1
Metric system-SI	A-7
Model BBD carburetor calibrations (inches)	4-32
Model YF carburetor calibrations	4-18
Model YF carburetor with altitude compensation-calibrations (inches)	4-22
Model t-15a 3-speed transmission	6-11
Model t-150 3-speed transmission	6-3
Model t-18 4-speed transmission	6-17
Model 20 transfer case	8-1
Model 2150 carburetor calibrations (inches)	4-58

Model 4350 carburetor calibrations	4-73
Modifications, engine	4A-10
Modulator testing	7-18
Motor, blower	13-7
Motor, wiper	17-10
Motorcraft alternator	3-9

N

Neutral switch adjustment	7-23
No-load test	3-33
Normal operating temperatures and pressures (A/C)	13A-7

O

Odometer setting procedure	3-63
Oil cooler leakage	2-9
Oil cooler repairs	2-13
Oil filter	1B-25
Oil filter change	B-4
Oil level, A/C compressor	13A-15
Oil pan	1B-25
Oil pan (six-cyl.)	1A-22
Oil pressure gauge and sending unit test	3-57
Oil pressure gauge calibrations	3-57
Oil pressure gauge replacement	3-58
Oil pump	1B-25
Oil pump (six-cyl.)	1A-24
Oil pump pressure test (power steering pump)	11-63
Oil seal, rear main bearing (six-cyl.)	1A-25
Operating temperatures and pressures, normal (A/C)	13A-7
Operation, heater and defroster	13-2
Output voltage chart	3-11
Outside door handle (Cke, Wag, Trk)	15-4
Outside door handle replacement (CJ)	15-2
Over, subassembly, (automatic transmission)	7-35
Overcharge troubleshooting procedure	3-13
Overcharged-undercharged battery diagnosis guide	3-22
Overhaul-AMC/Jeep axle	10-17
Overhaul-axle models 30-44-60	10-25
Overhaul, starter motor	3-37
Overlays, exterior wood grain	20-12

P

Pan, oil (six-cyl.)	1A-22
Panel, instrument	18-2
Panels	14-1
Panels	14-8
Panels, galvanized	14-8
Panels, rear quarter	14-8
Parking brake adjustment-all models	9-1
Parking, side marker, and directional lamps	3-68
PCV air inlet filter maintenance	4A-21
PCV valve test	4A-21
Performance diagnosis (air conditioning)	13A-2
Periodic maintenance-power steering	11-44
Pinion seal and front yoke replacement	10-5
Pinion seal and yoke replacement (rear axle)	10-15
Piston pins (V-8)	1B-34
Piston pins (six-cyl.)	1A-32
Pistons (V-8)	1B-33
Pistons (six-cyl.)	1A-31
Pivot vent window (Cherokee)	15-9
Planetary gear train	7-3
Plates, restrictor	4A-15
Positive crankcase ventilation (PCV) system	4A-20
Positive crankcase ventilation (PCV) valve	4A-20
Power brake diagnosis procedure	9-2
Power brake units	9-14
Power steering gear service	11-44
Power steering pump installation	11-63
Power steering pump service	11-59
Power steering system	11-41
Power steering, periodic maintenance	11-44
Power steering, variable ratio	11-44
Power train combinations-1977 CJ models	A-10
Power train combinations-1977 Cherokee- Wagoneer-Truck models	A-9
Power unit service diagnosis	9-3
Pressure diagnosis (air conditioning)	13A-3
Pressure gauge and manifold assembly (A/C)	13A-5
Pressure test diagnosis chart-automatic transmission	7-8
Pressure test procedure, automatic transmission	7-7
Pressure test procedure and specifications chart-automatic transmission	7-8
Pressure test, oil pump (power steering)	11-63
Propeller shafts and universal joints	10-37
Propeller shafts, axles	10-1
Pump, air	4A-7
Pump, oil (V-8)	1B-25
Pump, oil (six-cyl.)	1A-24
Pump, washer	17-11

Q

Quadra-Trac transfer case	8-11
---------------------------------	------

R

Radiator 2-13
 Radiator cap 2-8
 Radiator grilles 14-9
 Radiator identification 2-13
 Radiator, reverse flushing 2-13
 Radio bulb replacement 3-82
 Radio interference diagnosis 3-78
 Radio reception characteristics 3-77
 Radio replacement 3-81
 Radio speakers 3-82
 Radios 3-75
 Rating, cold cranking 3-2
 Rating, reserve capacity 3-3
 Rear axle 10-11
 Rear axle hub replacement-CJ models 10-12
 Rear axle identification 10-11
 Rear axle installation 10-16
 Rear axle removal 10-16
 Rear directional, side marker, stop and
 taillamps 3-69
 Rear door glass 15-8
 Rear door remote control and lock lever rod 15-7
 Rear door vent assembly 15-9
 Rear door window regulator 15-9
 Rear main bearing oil seal (V-8) 1B-26
 Rear main bearing oil seal (six-cyl.) 1A-25
 Rear quarter 15-1
 Rear quarter panels 14-8
 Rear quarter trim panel 15-9
 Rear seat assemblies 19-3
 Rear seat assembly service 19-4
 Rear view mirror bracket installation 17-3
 Rear window 17-4
 Recommended lubricants B-10
 Reconditioning, cylinder bore (V-8) 1B-27
 Reconditioning, cylinder bore (six-cyl.) 1A-26
 Rectifier bridge 3-26
 Rectifier diode testing 3-15
 Reduction unit assembly 8-18
 Reduction unit disassembly 8-15
 Reduction unit installation 8-15
 Reduction unit removal 8-14
 Reduction unit shift lever 8-12
 Refridgerant safety precautions 13A-5
 Refrigeration cycle 13A-4
 Regulator, front door window 15-7
 Removal, steering knuckle 10-7
 Removing coolant from crankcase 2-14
 Repairs, oil cooler 2-13
 Replacement, EGR valve 4A-13
 Replacement, distributor 3-51
 Replacement, distributor component 3-52
 Replacement, field coil 3-39
 Replacement, headlamp 3-66
 Replacement, oil pressure gauge 3-58

Replacement, pinion seal and front yoke 10-5
 Replacement, radio bulb 3-82
 Replacement, solenoid contact assembly 3-39
 Replacement, speedometer head 3-63
 Replacement, starter motor 3-37
 Replacing core plugs 2-14
 Reserve capacity rating 3-3
 Restrictor plates 4A-15
 Reverse flushing radiator 2-13
 Ring gear, starter, flywheel and 1B-38
 Rocker arm assembly (V-8) 1B-12
 Rocker arm assembly (six-cyl.) 1A-10
 Rod, door locking 15-6
 Rollover check valve 4A-18
 Rotation, tire 9-46
 Rotor continuity test 3-13
 Rotor ground test 3-14
 Rotor testing 3-23
 Rotor, distributor 4A-30

S

Safety precautions, reffridgerant 13A-5
 Seal, axle shaft 10-9
 Seat assemblies and adjusters 19-1
 Seat belts 19-4
 Seat, front, assembly service 19-2
 Seat, rear, assemblies 19-3
 Seat, rear, assembly service 19-4
 Sending unit test 3-57
 Sensor and trigger wheel 3-42
 Sensor test 3-51
 Service (disc brakes-CJ) 9-38
 Service (disc brakes-Cke-Wag-Trk) 9-30
 Service diagnosis (V-8 engine) 1B-6
 Service diagnosis (emission controls) 4A-1
 Service diagnosis (heater-defroster) 13-4
 Service diagnosis (manual transmission) 6-1
 Service diagnosis (six-cylinder engine) 1A-5
 Service diagnosis (steering columns) 11-2
 Service diagnosis model 20 (transfer case) 8-3
 Service diagnosis(manual steering gear) 11-30
 Service diagnosis-steering gear and pump 11-45
 Service manual improvements A-6
 Service procedures-in vehicle (automatic
 transmission) 7-22
 Service procedures-in vehicle (transfer case) 8-3
 Service procedures-out of vehicle (automatic
 transmission) 7-25
 Service procedures-out of vehicle (transfer
 case) 8-6
 Service valves (A/C) 13A-5
 Service-CJ models (drum brakes) 9-22

- Service Cherokee-Wagoneer-Truck (drum brake) ... 9-24
 Service, expansion valve (A/C) 13A-21
 Service, power steering gear 11-44
 Service, power steering gear 11-44
 Service, power steering pump 11-59
 Service, system controls (A/C) 13A-21
 Service, water pump 2-11
 Services scheduled by accumulated mileage B-4
 Services scheduled by mileage or time intervals B-1
 Shaft, axle 10-5
 Shift control case-Cherokee and Truck 8-9
 Shift control housing (Cherokee, Wagoneer,
 Truck) 6-16
 Shift control housing (with 4-speed) 6-23
 Shift control housing- CJ models 6-10
 Shift linkage-CJ models 8-10
 Shift speed chart-automatic transmission 7-9
 Shimmy, front end 11-40
 Shock absorbers 12-1
 Short engine assembly 1B-39
 Short engine assembly (short block), six-cyl. 1A-36
 Sight glass 13A-7
 Six-cylinder engine 1A-1
 Six-cylinder engine specifications 1A-37
 Solenoid contact assembly replacement 3-39
 Solenoid control switch 4A-25
 Solenoid vacuum valve 4A-24
 Spark coolant temperature override switch
 (spark) 4A-26
 Spark plug wires 4A-29
 Spark plugs and ignition wires 3-42
 Speaker harness test 3-83
 Speakers, radio 3-82
 Specific gravity reading 3-8
 Specifications, automatic transmission 7-67
 Specifications, axle 10-38
 Specifications, brakes 9-47
 Specifications, carburetor service 4-74
 Specifications, clutch 5-10
 Specifications, cooling system 2-15
 Specifications, electrical 3-97
 Specifications, fuel pump 4-6
 Specifications, manual transmission 6-25
 Specifications, six-cylinder engine 1A-37
 Specifications, steering 11-64
 Specifications, transfer case 8-30
 Specifications, tune up 4A-37
 Specifications, V-8 engine 1B-39
 Speedometer 3-61
 Speedometer cable inspection 3-63
 Speedometer calibration 3-63
 Speedometer head replacement 3-63
 Spindle bearing (front axle) 10-10
 Spring bushing replacement 12-4
 Spring mounted above axle 12-3
 Spring mounted below axle 12-2
 Springs 12-1
 Stabilizer bar 12-1
 Standard differential 10-17
 Standard torque specifications and capscrew
 markings A-6
 Starter cable and ground cable tests (voltage
 drop) 3-31
 Starter motor overhaul 3-37
 Starter motor replacement 3-37
 Starter motor solenoid pull-in winding test 3-31
 Starter system circuits 3-29
 Starter voltage drop test diagnosis and repair
 simplification (DARS) chart 3-31
 Starter voltage drop tests 3-34
 Starting procedure-discharged battery 3-3
 Starting system 3-28
 Stationary rear quarter window replacement
 (CJ) 15-3
 Stationary vent window (CJ) 15-3
 Stationary window-Cherokee 15-10
 Stationary window-Cherokee-Wagoneer 15-10
 Stator continuity test 3-14
 Stator ground and negative diode test
 (alternator removed) 3-13
 Stator ground test 3-14
 Steering 11-1
 Steering column alignment 11-1
 Steering column installation 11-12
 Steering column removal 11-12
 Steering column-automatic transmission 11-19
 Steering column-manual transmission 11-12
 Steering column, Adjust-O-Tilt 11-23
 Steering columns 11-1
 Steering damper 11-38
 Steering gear adjustment 11-57
 Steering gear disassembly 11-49
 Steering gear-left-hand drive vehicles 11-29
 Steering gear-right-hand drive vehicles 11-34
 Steering gear, manual 11-29
 Steering knuckle ball stud 10-8
 Steering knuckle installation 10-8
 Steering knuckle removal 10-7
 Steering linkage 11-37
 Steering wheel installation 11-11
 Steering wheel removal 11-1
 Steering wheel spoke alignment 11-40
 Stick-slip condition 8-13
 Stoplamp switch 3-75
 Stoplamp switch electrical test 3-75
 Subassembly overhaul (automatic transmission) ... 7-35
 Suspension 12-1
 Switch, EGR, CTO 4A-13
 Switch, dimmer, replacement 3-67
 Switch, directional signal 3-73

Switch, fan control	13-4
Switch, headlamp	3-67
Switch, headlamp, replacement	3-67
Switch, ignition	3-64
Switch, solenoid control	4A-25
Switch, stoplamp	3-75
Switch, window, tailgate	16-6
System components-function (A/C)	13A-3
System controls service (A/C)	13A-21
System pressures, checking (A/C)	13A-6
System troubleshooting (A/C)	13A-17

T

Tachometer-CJ models	3-64
Tailgate	16-1
Tailgate and torque rod	16-3
Tailgate glass adjustment	16-4
Tailgate glass replacement	16-4
Tailgate key lock	16-6
Tailgate latch replacement	16-4
Tailgate lock remote control	16-4
Tailgate window defogger	3-83
Tailgate window regulator replacement	16-4
Tailgate window switch	16-6
Tailgate-luggage rack	16-1
Tailgate, truck	16-5
Taillamps, rear directional, side marker and stop	3-69
Tank, fuel	4-2
Tank, fuel	4A-17
TCS test	4A-25
Tempatrol fan test	2-7
Temperature control thermostat (A/C)	13A-22
Temperature gauge and sending unit	3-58
Temperature gauge calibration-all models	3-58
Test gauge installation chart-automatic transmission	7-10
Test, PCV valve	4A-21
Test, TCS	4A-25
Test, cooling system pressure	2-8
Test, cylinder leakage	1B-10
Test, cylinder leakage (six-cylinder engine)	1A-3
Test, cylinder leakage, diagnosis (six-cylinder engine)	1A-3
Test, field circuit open or ground, alternator removed	3-13
Test, field grounded circuit	3-36
Test, hydraulic tappet leak-down (V-8)	1B-19
Test, hydrometer	3-5
Test, ignition switch	3-65
Test, ignition system	3-47
Test, no-load	3-33
Test, oil pressure gauge and sending unit	3-57
Test, pressure, procedure and specifications (automatic transmission)	7-8
Test, rotor continuity	3-13
Test, rotor ground	3-14
Test, sending unit	3-57
Test, sensor	3-51
Test, speaker harness	3-83
Test, stator continuity	3-14
Test, stator ground	3-14
Test, stator ground and negative diode, alternator removed	3-13
Test, stoplamp switch, electrical	3-75
Test, tempatrol fan	2-7
Testing and diagnosis (axles)	10-1
Testing, battery	3-5
Testing, fuel pump	4-6
Testing, rotor	3-23
Tests, armature	3-36
Tests, axle	10-1
Tests, coil	3-48
Tests, cooling system	2-6
Tests, starter voltage drop	3-34
Tests, tire noise	10-1
Tests, wheel bearing	10-1
Thermostat	2-7
Thermostat replacement	2-12
Thermostat, temperature control (A/C)	13A-22
Thermostatically controlled air cleaner (TAC) system	4A-21
Throwout bearing	5-6
Tie rod	11-38
Timing case cover (V-8)	1B-20
Timing case cover (six-cyl.)	1A-18
Timing chain (V-8)	1B-21
Timing chain (six-cyl.)	1A-20
Timing light procedure, adjustable advance control	4A-31
Tire care	9-46
Tire inflation pressure (psi) chart	9-47
Tire noise tests	10-1
Tire rotation	9-46
Tire service	9-45
Tires	9-45
Tires, and wheels	9-44
Torque bias check	8-14
Torque converter	7-2
Torx-Head fasteners	A-6
Towing	7-5
Towing	8-13
Trac-lok assembly replacement	10-37
Trac-lok differential	10-31
Trailer towing packages	3-97
Trak-Loc differential, chatter	10-2

Trak-Lok differential, assembly	10-35
Transfer case	8-1
Transfer case assembly (Quadra-Trac)	8-29
Transfer case cover removal-in vehicle	8-21
Transfer case cover-assembly	8-21
Transfer case cover-disassembly	8-21
Transfer case cover-installation	8-21
Transfer case disassembly (Quadra-Trac)	8-24
Transfer case shift sequence (model 20)	8-1
Transfer case-installation (Quadra-Trac)	8-24
Transfer case-removal	8-23
Transfer case, Quadra-Trac	8-11
Transfer case, model 20	8-1
Transmission assembly (automatic transmission)	7-58
Transmission controlled spark (TCS) system	4A-24
Transmission diagnosis-operation-test procedures	7-1
Transmission disassembly (automatic transmission)	7-26
Transmission installation (manual transmission)	6-3
Transmission removal-all models (manual transmission)	6-2
Transmission, automatic	7-1
Transmission, manual	6-1
Transmission, model T-15A 3-speed	6-11
Transmission, model T-150 3-speed	6-3
Transmission, model T-18 4-speed	6-17
Trigger wheel and sensor	3-42
Trim panel, rear quarter	15-9
Trim panels, door	15-1
Trim panels, door (Cke, Wag, Trk)	15-4
Troubleshooting procedure, overcharge	3-13
Troubleshooting procedure, undercharge	3-12
Troubleshooting, system, A/C	13A-17
Truck tailgate	16-5
Tuneup, complete precision-Cherokee-Wagoneer-Truck	B-8
Tuneup, complete precision, CJ models	B-9
Turning angle adjustment (front axle)	10-10

U

U.s. emission control service-Cherokee-Wagoneer-Truck models	4A-28
U.s. emission control service-CJ models	4A-28
Undercharge troubleshooting procedure	3-12
Universal joint, cardan cross-type	10-37
Unscheduled maintenance	B-10

V

VIN decoding chart	A-5
V-8 engine	1B-1

V-8 engine specifications	1B-39
Vacuum modulator-manual linkage-detent solenoid	7-2
Vacuum throttle modulating system (VTM)	4A-23
Valve spring/valve stem oil deflector (V-8)	1B-13
Valve spring/valve stem oil deflector (six-cylinder)	1A-10
Valve, EGR	4A-11
Valve, EGR delay	4A-15
Valve, diverter (bypass)	4A-9
Valve, exhaust manifold heat	4A-36
Valve, governor	7-24
Valve, liquid check	4A-18
Valve, positive crankcase ventilation (PCV)	4A-20
Valve, rollover check	4A-18
Valve, solenoid vacuum	4A-24
Variable ratio power steering	11-44
Vehicle identification	A-4
Vehicle identification, general information	A-1
Vent assembly, front door	15-7
Vent assembly, rear door	15-9
Vent glass replacement	15-7
Vent window glass	15-10
Vent window, stationary (CJ)	15-3
Ventilation, fresh air	13-3
Vibration damper (V-8)	1B-19
Vibration damper (six-cyl.)	1A-18
Vibration, audible	10-2
Vibration, driveline	10-2
Viscosity, engine oil	B-3
Voltage output no-load test	3-12
Voltage output quick test	3-11
Voltmeter	3-57

W

Wagoneer grille insert	14-10
Washer pump	17-11
Water pump service	2-11
Water shield (CJ)	15-1
Water test procedure (bodies)	14-1
Wheel balancing	9-44
Wheel bearing tests	10-1
Wheels and tires	9-44
Wheels, brakes and	9-1
Window regulator (CJ)	15-3
Window regulator handle	15-1
Window regulator, rear door	15-9
Window, electrical, tailgate	16-5
Window, electrically operated tailgate	3-86
Window, pivot vent (Cherokee)	15-9
Window, rear	17-4
Window, stationary-Cherokee	15-10
Window, stationary-Cherokee-Wagoneer	15-10



Windshield	17-1	Wiper blades	17-5
Windshield wiper	17-5	Wiper motor	17-10
Windshield-rear window-windshield wiper	17-1	Wiper pivot shaft and linkage	17-11
Windshield, folding	17-4	Wiper, windshield	17-5
Wiper and washer controls	17-5	Wires, spark plug	4A-29
Wiper arm replacement	17-5	Wood grain, overlays, exterior	20-12