



FOR PASSENGER & LIGHT COMMERCIAL VEHICLES

Glow Plugs

Part Data | Application Table
Cross Reference | Picture Reference

GLOW PLUG CATALOGUE
2018/2019



DENSO

THE BLUEPRINT FOR SUPERIOR GLOW PLUG TECHNOLOGY

**TERMINAL & SHELL**

The outer casing and terminal are zinc coated to resist corrosion.

INSULATOR

The Glow Plug insulating disc has exceptional strength, insulation and thermal conductivity to ensure that a short circuit cannot occur.

CASING

An alloy casing surrounds and protects the Glow Plug to provide heat resistance.

SEAL

A rubber seal is in place to prevent air from seeping through and corroding the coil.

INSULATION

Electrical insulation of the coil is provided by firmly packed magnesium oxide powder, which is also an efficient heat conductor.

REGULATING COIL

The main coil acts as a regulator within the Glow Plug to control and sustain temperature rise, and ensure a rapid warm-up.

COIL CONNECTION

Laser welding connects the Heating and Regulating coils to maintain their position at all times and ensure consistent resistance characteristics.

HEATING COIL

A shorter, tapered coil inside the end of the Glow Plug delivers a quick start (from as little as 3 seconds) even in cold conditions. It can then hold its post-heating temperature for up to six minutes after cold start. This contributes to lower engine emissions.

TIP

The narrowed plug tip ensures improved heating efficiency and excellent performance.

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ABOUT THIS CATALOGUE

This catalogue has been issued by DENSO Automotive Systems Australia as a guide to assist the user in finding suitable DENSO glow plugs for Australian vehicle applications. DENSO does not warrant the accuracy of the contents and, to the extent allowable by Australian law, accepts no responsibility for any claims arising from the use of this catalogue.

- > The comparison tables in this catalogue do not guarantee the performance of these glow plugs when installed into the vehicles shown in the tables and are intended as reference only.
- > The glow plug specifications (construction, material, etc.) differ from one manufacturer to another.
- > Select a suitable type of glow plug from the application tables in this catalogue. If you are using a tuned or modified vehicle, the recommended glow plug may no longer be suitable, select an appropriate type of glow plug according to your own judgment and at your own responsibility.
- > The glow plugs listed in this catalogue cannot be used in an engine that is to be mounted in an aircraft or drone.
- > The contents of this catalogue are valid as of 1st July 2018. Subsequent to this date, the information may no longer match the actual product. Some parts of the previous catalogue have been updated. If you retain a copy of the previous catalogue, please discard it.
- > The appearance and specifications of the product are subject to change without prior notice.
- > Where possible, always physically compare the plug removed from the engine with the DENSO glow plug before installation. If there is concern of difference between the two plugs do not install.

PRECAUTIONS WHEN PURCHASING & USING GLOW PLUGS

- > Be sure to turn off the engine before replacing or adjusting the plugs. Failure to heed this warning may result in a fire or an electric shock.
- > Do not drop a glow plug onto a hard floor. This may cause the glow plug to crack internally preventing it from functioning correctly.



1. ENLARGED PROBE TIP



CAUSE

- > Excessive voltage. (e.g. 12-V glow plug in a 24-V system or vice versa)
- > Failure of alternator and regulator.
- > Dampness during storage.

SOLUTION

- > Check on-board and glow plug voltage.
- > Check charging system.
- > Check quality or storage conditions.

2. BROKEN PROBE TIP



CAUSE

- > Excessive glowing / voltage. (e.g. 24-V glow plug in a 12-V system or vice versa)
- > Failure of alternator and regulator.

SOLUTION

- > Check contacts on glow plug regulator.
- > Check on-board and glow plug voltage.
- > Check charging system voltage.

3. DAMAGED OR MISSING PROBE TIP



CAUSE

- > Failure of ignition unit.
- > Direction or regularity of fuel jet incorrect.
- > Seating fault causing spraying position error.

SOLUTION

- > Check the ignition unit is correctly installed.
- > Check you are using the correct ignition unit for the vehicle model.
- > Check the glow plug installation point for carbon deposits.

4. DEFORMED PROBE (OVERHEATING)



CAUSE

- > Failure of ignition unit.
- > Direction or regularity of fuel jet incorrect.
- > Wrong spraying position caused by faulty sealing.
- > Excessive glowing / voltage. (e.g. 24-V glow plug in a 12.V system or vice versa)
- > Failure of alternator and regulator.
- > Function or timing fault in injection unit.

SOLUTION

- > Check the ignition unit is correctly installed.
- > Check you are using the correct ignition unit for the vehicle model.
- > Check the glow plug installation point for carbon deposits.
- > Check contacts on glow plug regulator.
- > Check on-board and glow plug voltage.
- > Check charging system voltage.
- > Check fuel injection timing.

5. MISSING PROBE



CAUSE

- > Ignition unit failure
- > Direction or regularity of fuel jet incorrect
- > Wrong spraying position caused by faulty sealing.
- > Function of timing fault in injection unit.
- > Thread damage to opening of cylinder head where glow plug is installed.
- > Glow plug insufficiently tightened causing plug to sit incorrectly.

SOLUTION

- > Check you are using the correct ignition unit for the vehicle model.
- > Check the ignition unit is correctly installed.
- > Check the glow plug installation point for carbon deposits.
- > Check timing of injection pump.
- > Check the opening of cylinder head for thread damage/carbon fouling.

6. SWOLLEN RING ON THE PROBE TIP



CAUSE

- > Oil in the combustion chamber, probably caused by engine wear.

SOLUTION

- > Check piston clearance in engine cylinders.
- > Check oil consumption.

7. PROBE TOUCHING BODY OF GLOW PLUG



CAUSE

- > Over-tightened torque.
- > Wrong tool used.
- > Thread damage to opening of cylinder head.

SOLUTION

- > Check the opening of cylinder head for thread damage/carbon fouling.
- > Check glow plug torque.

8. HOLES IN PROBE / CRACKS / MELTING NEXT TO BODY OF GLOW PLUG



CAUSE

- > Failure of ignition unit.
- > Direction or regularity of fuel jet incorrect.
- > Wrong spraying position caused by faulty scaling.
- > Function or timing fault in injection unit.
- > Thread damage to opening of cylinder head where glow plug is installed.
- > Glow plug insufficiently tightened causing plug to sit incorrectly.

SOLUTION

- > Check you are using the correct ignition unit for the vehicle model.
- > Check the ignition unit is correctly installed.
- > Check the glow plug installation point for carbon deposits.
- > Check the opening of cylinder head for thread damage/carbon fouling.
- > Check timing of injection pump.

9. CARBON DEPOSITS BETWEEN PROBE AND BODY OF GLOW PLUG



CAUSE

- > Failure of ignition unit.
- > Direction of regularity of fuel jet incorrect.
- > Wrong spraying position caused by faulty sealing.
- > Injection pump operation/timing failure.

SOLUTION

- > Check you are using the correct ignition unit for the vehicle model.
- > Check the ignition unit is correctly installed.
- > Check the glow plug installation point for carbon deposits.
- > Check the opening of cylinder head for thread damage / carbon fouling.
- > Check timing of injection pump.

10. BROKEN / BENT POWER TERMINAL



CAUSE

- > Over-tightened torque.
- > Wrong tool used.
- > Thread damage to opening of cylinder head.

SOLUTION

- > Check the opening of cylinder head for thread damage/carbon fouling.
- > Check glow plug torque.

GLOW PLUG PART DATA

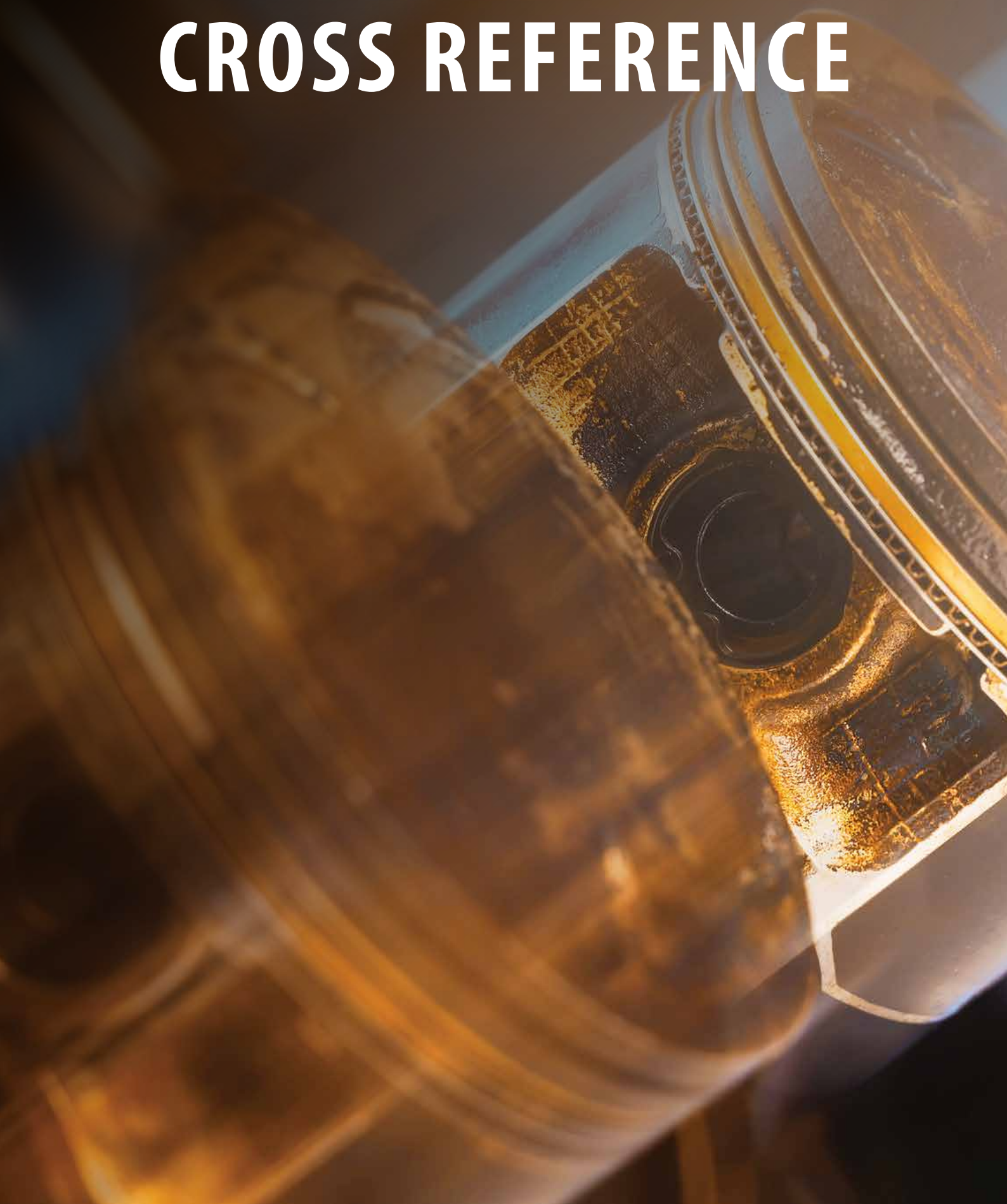


PART NUMBER	VOLTAGE	THREAD SIZE	LENGTH OVERALL	PROBE LENGTH	PROBE DIAMETER	HEXAGON	TERMINAL TYPE	RESISTANCE	TERMINAL TORQUE	SHELL TORQUE
	VOLTS	MM	MM	MM	MM	MM		OHM	NM	NM
DG-001	11	M12x1.25	72	24.3	6.1	12	Thread	0.5	3-4	15-20
DG-003	11	M10x1.0	89	29.6	5	10	Thread	0.5	1-1.5	10-12
DG-004	11	M12x1.25	70	20.3	5	12	Thread	0.5	1-1.5	15-20
DG-005	11	M10x1.0	92	24.6	5	10	Pin	0.5	-	10-12
DG-006	11	M12x1.25	67	24.3	6.1	12	Thread	0.5	3-4	15-20
DG-007	11.5	M12x1.25	63	17.3	6.1	12	Thread	0.5	3-4	15-20
DG-008	11	M10x1.0	93	24.6	5	10	Thread	0.5	1-1.5	10-12
DG-009	11	M12x1.25	70	25.3	5	12	Thread	0.5	1-1.5	15-20
DG-010	11.5	M12x1.25	70	22.3	6.1	12	Thread	0.5	3-4	15-20
DG-012	11	M12x1.25	62.2	20.3	6.1	12	M5x0.8	0.5	3-4	15-20
DG-101	11	M10x1.0	84	24.5	5	10	Thread	0.5	1-1.5	10-12
DG-102	11	M12x1.25	71.5	24.3	5	12	Thread	0.5	1-1.5	15-20
DG-104	11	M10x1.25	80	16.9	5	12	Thread	0.5	1-1.5	10-12
DG-106	11.5	M12x1.25	114	27.3	6.1	12	Pin	0.5	-	15-20
DG-108	11	M12x1.25	135	23.85	5	12	Thread	0.5	1-1.5	15-20
DG-109	11	M10x1.0	97	29.6	5	10	Pin	0.5	-	10-12
DG-110	11.5	M12x1.25	87	27.3	5	12	Pin	0.5	-	15-20
DG-111	11	M10x1.0	76	24.6	5	10	Thread	0.5	1-1.5	10-12
DG-112	11	M10x1.0	99	24.6	5	10	Pin	0.5	-	10-12
DG-113	11	M8x1.0	118.5	27.7	5	8	Thread	0.8	1-1.5	8-10
DG-114	11	M10x1.25	82,9	22	5	12	M4x0.7	0.5	1-1.5	10-12
DG-115	11.5	M10x1.0	125	26	5	10	Thread	0.5	1-1.5	10-12
DG-116	11	M10x1.0	107.5	27.6	5	10	Thread	0.5	1-1.5	10-12
DG-117	11.5	M10x1.0	130	26.6	5	10	Pin	0.5	-	10-12
DG-118	11	M10x1.0	133	28.6	5	10	Pin	0.5	-	10-12
DG-119	11.5	M12x1.25	120	27.3	6.1	12	Pin	0.6	-	15-20
DG-121	10	M10x1.0	95	24.6	5	10	Thread	0.5	1-1.5	10-12
DG-122	11	M10x1.0	102.4	23.9	5	10	Pin	0.5	-	10-12
DG-123	11	M12x1.25	67	19.3	6.1	12	Thread	0.6	3-4	15-20
DG-124	11	M10x1.25	87	23.9	5	12	Thread	0.5	1-1.5	10-12
DG-126	11	M10x1.0	150.5	24	5	10	Pin	0.5	-	10-12
DG-127	11	M10x1.0	95	24.4	5	10	Thread	0.5	1-1.5	10-12
DG-129	11	M12x1.25	75.2	20.3	6.1	12	Pin	0.5	-	15-20
DG-130	11.5	M10x1.0	146,1	35	5	10	Thread	0.5	1-1.5	10-12
DG-132	11	M10x1.0	82	24.6	5	10	Thread	0.5	1-1.5	10-12
DG-133	11	M10x1.0	126	28.6	5	10	Thread	0.5	1-1.5	10-12
DG-137	11	M10x1.25	85	19.1	5	12	M4x0.7	0.5	1-1.5	10-12
DG-139	11	M10x1.0	149.5	26	5	8	Pin	0.5	-	10-12
DG-140	11	M8x1.0	126	24.5	4	8	Pin	0.8	-	8-10
DG-142	11	M10x1.0	135	30.6	5	10	Pin	0.5	-	10-12
DG-143	5	M10x1.25	90	23.5	5	12	Thread	0.1	1-1.5	10-12
DG-144	11	M10x1.0	125	33.6	5	10	Pin	0.8	-	10-12

PART NUMBER	VOLTAGE	THREAD SIZE	LENGTH OVERALL	PROBE LENGTH	PROBE DIAMETER	HEXAGON	TERMINAL TYPE	RESISTANCE	TERMINAL TORQUE	SHELL TORQUE
	VOLTS	MM	MM	MM	MM	MM		OHM	NM	NM
DG-145	11	M10x1.0	105	31.6	5	10	Pin	0.5	-	10-12
DG-146	11	M10x1.25	83	21.9	5	12	Thread	0.5	1-1.5	10-12
DG-155	11.5	M10x1.0	128	29.6	5	10	Thread	0.5	1-1.5	10-12
DG-157	11	M10x1.25	68	16.9	5	12	Thread	0.5	1-1.5	10-12
DG-159	5	M10x1.25	83	18	5	12	Thread	0.1	1-1.5	10-12
DG-161	11	M10x1.0	117	33.6	5	10	Thread	0.5	1-1.5	10-12
DG-170	11	M9x1.0	151	29.6	4	9	Pin	0.8	-	10-12
DG-171	11	M8x1.0	119	27.6	4	8	Pin	0.6	-	8-10
DG-172	11	M10x1.25	97	21.85	5	12	Thread	0.5	1-1.5	10-12
DG-173	11	M10x1.0	111.5	29.6	5	10	Thread	0.5	1-1.5	10-12
DG-174	11	M10x1.25	82	18.9	5	12	Thread	0.5	1-1.5	10-12
DG-175	10.5	M10x1.0	78.4	28.3	5	3/8"	Faston	0.5	-	10-12
DG-176	11.5	M10x1.0	130	25.5	5	10	Pin	0.5	-	10-12
DG-177	5	M10x1.0	96	29.1	5	10	Pin	0.5	-	10-12
DG-178	5	M10x1.0	105	31.6	5	10	Pin	0.5	-	10-12
DG-180	11	M8x1.0	124,1	27.7	3.5	8	Pin	0.6	-	8-10
DG-181	11	M10x1.0	117,4	26.8	5	12	M4x0.7	0.5	1-1.5	10-12
DG-182	11	M10x1.0	106	23.5	5	10	Pin	0.5	-	10-12
DG-183	11.5	M10x1.0	130	25.5	5	10	Pin	0.5	-	10-12
DG-184	11.5	M10x1.0	121	39.6	5	10	Pin	0.5	-	10-12
DG-186	11	M10x1.25	144	24.35	5	12	Thread	0.5	1-1.5	10-12
DG-187	11	M10x1.25	170	35	5	12	Thread	0.8	1-1.5	10-12
DG-188	11	M10x1.0	150	23.8	4	10	Pin	0.8	-	10-12
DG-189	11	M10x1.25	150	31	3.6	10	Pin	0.8	-	10-12
DG-190	4.4	M8x1.0	117.6	29.6	4	8	Pin	0.4	-	8-10
DG-191	5	M10x1.0	133	28.6	5	10	Pin	0.4	-	10-12
DG-192	5	M10x1.0	133	30	5	10	Pin	0.4	-	10-12
DG-193	4.4	M10x1.0	126.3	24	4	10	Pin	0.4	-	10-12
DG-194	4.4	M8x1.0	147.9	26.6	4	8	Pin	0.4	-	8-10
DG-195	11	M8x1.0	151	39.6	5	8	Pin	0.6	-	8-10
DG-196	11	M10x1.0	109.5	30.2	5	10	Pin	0.5	-	10-12
DG-197	11	M10x1.25	177.8	20.5	4.4	12	M4x0.7	0.5	1-1.5	10-12
DG-198	11	M10x1.25	89.9	21.85	5	12	Thread	0.5	1-1.5	10-12
DG-202	11	M12x1.25	77	29.3	6.1	12	Thread	0.5	3-4	15-20
DG-228	19	M18x1.5	78	21	5	26	M5x0.8		3-4	30-40
DG-231	21.5	M10x1.25	94.5	22	5	12	M5x0.8		3-4	10-12
DG-235	20.5	M10x1.25	100.5	28	5	12	M4x0.7	0.025	1-1.5	10-12
DG-236	19	M10x1.25	84.5	25	5.2	12	M5x0.8		3-4	10-12
DG-238	23	M10x1.25	91.5	32	5	12	M5x0.8	0.018	3-4	10-12
DG-240	11	M10x1.25	160	36	5	10	M4x0.7	0.5	1-1.5	10-12
DG-241	6	M12x1.25	141	24	5	12	M4x0.7	0.02	1-1.5	15-20
DG-245	11	M10x1.25	170	36.6	3.5	12	M4x0.7	0.5	1-1.5	10-12

PART NUMBER	VOLTAGE	THREAD SIZE	LENGTH OVERALL	PROBE LENGTH	PROBE DIAMETER	HEXAGON	TERMINAL TYPE	RESISTANCE	TERMINAL TORQUE	SHELL TORQUE
	VOLTS	MM	MM	MM	MM	MM		OHM	NM	NM
DG-501	11	M10x1.25	92.8	22	5	12	M4x0.7	0.9	1-1.5	10-12
DG-502	11	M10x1.25	121.5	30	3.5	12	M4x0.7	0.6	1-1.5	10-12
DG-600	11	M10x1.25	160	28.5	3.5	10	M4x0.7	0.9	1-1.5	10-12
DG-601	11	M10x1.25	160.9	31	4	12	Pin	0.8	-	10-12
DG-602	11	M10x1.25	134.5	30	5	12	M4x0.7	0.5	1-1.5	10-12
DG-603	5	M8x1.0	113.9	27.5	4	8	Pin	0.4	-	8-10
DG-604	4.4	M8x1.0	93.9	29	4	8	Pin	0.4	-	8-10
DG-605	11	M10x1.25	213	23	4.3	12	M4x0.7	0.5	1-1.5	10-12
DG-606	11.5	M8x1.0	147.9	26.5	4	8	Pin	0.8	-	8-10
DG-608	4.4	M9x1.0	156.4	35	4	9	Pin	0.4	-	10-12
DG-609	4.4	M10x1.0	96.4	24.0	4	10	Pin	0.4	-	10-12
DG-610	4.4	M8x1.0	135.0	27.5	4	8	Pin	0.4	-	8-10
DG-611	4.4	M10x1.0	148,5	35	4	10	M4x0.7	0.4	1-1.5	10-12
DG-614	11	M8x1.0	98.4	27.5	4	8	Pin	0.8	-	8-10
DG-615	11	M10x1.0	155	27.7	5	10	Pin	0.75	-	10-12
DG-619	4.4	M10x1.0	90,5	24.0	4	10	Pin	0.4	-	10-12
DG-621	4.4	M9x1.0	119	27.5	3.3	9	Pin	0.4	-	10-12
DG-623	4.4	M10x1.0	133,5	28	4	10	Pin	0.4	-	10-12
DG-624	4.4	M10x1.25	139	28,5	4.4	10	M4x0.7	0.5	1-1.5	10-12
DG-625	4.4	M10x1.25	138	24	4	10	Pin	0.4	-	10-12
DG-626	11	M10x1.25	81	16	5	12	M4x0.7	0.5	1-1.5	10-12
DG-627	11	M10x1.25	138.5	30	4	12	M4x0.7	1.3	1-1.5	10-12
DG-628	11	M12x1.25	75.5	20	6	12	Pin	0.5	-	15-20
DG-629	11	M9x1.0	160	34.5	4	9	Pin	0.8	-	10-12
DG-630	11	M10x1.25	156	30	4	12	M4x0.7	1.3	1-1.5	10-12
DG-631	4.5	M10x1.0	163	26	5	10	Pin	0.4	-	10-12
DG-632	5	M8x1.0	100.4	30.5	4	10	Pin	0.4	-	8-10
DG-633	4.4	M8x1.0	129	25.5	4	8	Pin	0.4	-	8-10
DG-640	11	M10x1.25	87.5	18	4.5	12	Thread	0.7	1-1.5	10-12
DG-642	11	M10x1.25	96.9	19	5	12	M4	0.45	1-1.5	10-12
DG-643	11	M10x1.25	84	21.4	4.5	12	Thread	0.7	1-1.5	10-12
DG-644	11	M10x1.25	83.9	18.5	5	12	M4	0.45	1-1.5	10-12
DG-645	11	M10x1.25	82.9	22	5	12	Thread	0.45	1-1.5	10-12
DG-647	11	M10x1.25	95.5	32	5.2	12	M4x0.7		1-1.5	10-12
DG-648	11	M10x1.25	95.5	32	4.3	12	Thread		1-1.5	10-12
DG-649	11	M10x1.25	102.5	28	4.3	12	M4x0.7		1-1.5	10-12
DG-650	11	M10x1.25	101.5	28	5	12	M4x0.7		1-1.5	10-12
DG-651	23	M10x1.25	101.5	28	5	12	M4x0.7		1-1.5	10-12
DG-652	7	M10x1.25	101.5	28	5	12	M4x0.7		1-1.5	10-12

GLOW PLUG CROSS REFERENCE



PART NUMBER	OLD PART NUMBER	DENSO 10 DIGIT	HKT	CHAMPION	NGK	TRIDON	BOSCH SHORT CODE	BOSCH LONG CODE
DG-001	DG-125		B-081	CH63, CH68, CH69, CH87, CH137, CH159, CH163, CH164, CH174, CH189	DP1, Y208T, Y902R, Y908R, Y914U, Y917U, Y920R, Y922R, Y924J, Y938R	TGP001, TGP010, TGP085	GLP001, GLP089, GLP149	0 250 200 054, 0 250 200 057, 0 250 200 058, 0 250 200 059, 0 250 200 060, 0 250 200 064, 0 250 200 065, 0 250 200 066, 0 250 200 068, 0 250 200 069, 0 250 200 469, 0 250 201 001, 0 250 201 005, 0 250 201 006, 0 250 201 008, 0 250 201 009, 0 250 201 019, 0 250 201 027, 0 250 201 030, 0 250 201 033, 0 250 201 037, 0 250 201 039, 0 250 201 042, 0 250 201 405, 0 250 201 469, 0 250 201 937, 0 250 201 939, 0 250 201 950, 0 250 201 952, 0 250 202 019
DG-003				CH168, CH185	DP10, DP9, Y503J, Y503R, Y731U		GLP004	0 250 202 020
DG-004				CH147	DP23, DP3, DP33, Y910J, Y910R, Y911J, Y935U		GLP010	0 250 202 001, 0 250 202 018, 0 250 202 901
DG-005	DG-107		B-077	CH171, CH184, CH271	DP18, DP4, Y515J, Y723U, Y732J, Y732U	TGP044	GLP003, GLP224	0 250 202 009, 0 250 202 022, 0 250 212 009, 0 250 201 043, 0 250 201 935
DG-006				CH173	Y913J, Y913M, DP15			
DG-007				CH205	DP5, Y937J, Y937R		GLP012	0 250 201 049, 0 250 202 035, 0 250 202 024
DG-008				CH217	DP7, Y506J, Y506R			
DG-009				CH206	DP19, Y927J, Y927R			
DG-010			B-078	CH156, CH176	DP6, Y916J, Y916R	TGP007	GLP006, GLP119, GLP158	0 250 201 026, 0 250 201 041, 0 250 201 047, 0 250 201 055, 0 250 201 946, 0 250 201 954
DG-012	DG-002, DG-103		PN-89	CH60, CH160, CH179	DP2, DP25, Y204TS1, Y207T, Y918J, Y918R, Y932R, Y933J	TGP036	GLP002, GPN309	0 250 200 063, 0 250 201 004, 0 250 201 011, 0 250 201 015, 0 250 201 021, 0 250 201 031, 0 250 201 032, 0 250 201 046, 0 250 201 050, 0 250 201 415, 0 250 201 930, 0 250 201 933
DG-101			B-085	CH169, CH172	DP17, DP22, Y730U, Y740U	TGP089		0 250 202 025
DG-102				CH167	DP29, Y928U			0 250 202 034
DG-104			PI-57, PI-59	CH158	Y719RS1, Y721RS, Y743U	TGP034	GPI014, GPI016	0 250 202 087
DG-106				CH177	DP16, Y925J, Y925R	TGP090		0 250 201 038, 0 250 201 048, 0 250 201 054
DG-108			PI-49	CH306	Y904M1	TGP052	GLP103, GPI010	0 250 202 065
DG-109				CH181	DP20, Y741U	TGP022	GLP023, GLP033	0 250 202 023, 0 250 202 046
DG-110			B-067	CH204	DP41, Y929U	TGP084	GLP021	0 250 202 026, 0 250 202 140
DG-111				CH216	Y502R		GLP041	0 250 202 002
DG-112				CH233	DP12, Y516J	TGP045		0 250 202 129
DG-113				CH200	DP40, YE04	TGP012	GLP059	0 250 204 001
DG-114			PZ-33	CH97	Y107R	TGP055	GLP117, GPM502	0 250 202 007, 0 250 202 056
DG-115			B-074	CH178	DP34, Y729U	TGP092	GLP048	0 250 202 040
DG-116				CH170	DP24, Y504J, Y504R	TGP009		0 250 202 032
DG-117				CH218	DP11, Y745U	TGP066 11.5 Volts TGP071 11 Volts TGP079	GLP008, GLP022	0 250 202 029, 0 250 202 045, 0 250 202 141, 0 250 202 142
DG-118				CH207	DP14, Y748U		GLP019	0 250 202 042
DG-119				CH175	DP30, Y930U		GLP025	
DG-121				CH196	DP27, Y524J	TGP041		0 250 202 131
DG-122				CH222	DP36, Y534J	TGP028		0 250 202 036
DG-123				CH79	Y907R			0 250 201 017, 0 250 201 951
DG-124			PI-58	CH157	DP28, Y710J, Y711J, Y742U	TGP073	GPI013	0 250 202 085
DG-126				CH232	DP66, Y517J	TGP063	GLP057	0 250 202 128
DG-127				CH166	DP26, Y747U	TGP042		0 250 202 028, 0 250 202 033
DG-129				CH209	DP43, Y939J			0 250 201 053
DG-130			B-101	CH229	DP35, Y525J, Y548J	TGP067	GLP051	0 250 202 130
DG-132				CH90	Y739R			0 250 202 710
DG-133				CH190	Y604J		GLP078	0 250 202 027

CROSS REFERENCE

PART NUMBER	OLD PART NUMBER	DENSO 10 DIGIT	HKT	CHAMPION	NGK	TRIDON	BOSCH SHORT CODE	BOSCH LONG CODE
DG-137			PN-138, PN-139	CH186, CH187	Y530J, Y712RS	TGP060	GPN338	0 250 202 093
DG-139				CH239				
DG-140				CH240	YE12	TGP017	GLP115	0 250 203 004
DG-142				CH231	DP37, Y523J		GLP030	0 250 202 043
DG-143			PI-46	CH110	Y306R	TGP033	GPI005	0 250 202 008
DG-144				CH215	DP31, Y501U	TGP086		0 250 202 102
DG-145			B-104	CH203	DP32, Y507J, Y507R	TGP013	GLP040	0 250 202 103
DG-146			PZ-38, CP-60	CH242	DP39, Y701J	TGP019	GLP038, GPM513, GPM504, GPM510	0 250 202 089
DG-155				CH219	Y746J, Y746R, DP38			0 250 202 041
DG-157			PN-132, PN-81	CH161	Y112M1, Y112R1, Y702R, Y705RS	TGP020	GLP125, GPN318, GPN319, GPN322, GPN302	0 250 202 015, 0 250 202 064, 0 250 202 077
DG-159			PI-51	CH188	Y307R		GLP120	0 250 202 086
DG-161				CH208	Y738U			
DG-170				CH224	YE07	TGP005	GLP043	0 250 203 001
DG-171				CH223	YE06, Y8003J, DP62	TGP018	GLP016, GLP209	0 250 203 002, F 002 G50 031
DG-172				CH225	Y722J, Y722JS			
DG-173			B-110	CH226	Y749J	TGP046	GLP203, GPK900 (14.5mm Hex)	0 250 212 006
DG-174				CH256	Y733J, DP13		GLP054	0 250 202 092
DG-175				CH238			GLP044	0 250 202 126
DG-176				CH180	Y1031J, DP71		GLP109	0 250 202 038
DG-177				CH700	CZ104, Y607AS, DP50	TGP024	GLP050	0 250 402 001, 0 250 402 005
DG-178				CH701	Y547AS, DP47	TGP003	GLP070, GSK2	0 250 402 002
DG-180				CH201	YE05, DP73	TGP032	GLP094	0 250 204 002
DG-181				CH268	Y1005J, DP56	TGP011	GLP055, GLP111	0 250 202 048, 0 250 202 135
DG-182			B-118	CH272	Y605J		GLP225, GLP2-5	0 250 202 143
DG-183				CH275		TGP088		
DG-184				CH228	Y543J, DP46			
DG-186			PI-172	CH227	Y1038J	TGP035	GPI026	
DG-187			PM168	CH263	Y1007J, DP59	TGP087	GLP137, GPM904	0 250 202 124
DG-188				CH273	Y-536J, DP81			
DG-189			B-120	CH234	Y508J	TGP006	GPK901	
DG-190				CH702	YE14, DP48		GLP093, GLP2-HS	0 250 403 002
DG-191				CH703				
DG-192				CH704				
DG-193				CH705	Y1002AS, Y609AS, DP49, DP57		GLP194, GLP2-HS	0 250 403 009
DG-194				CH709	Y8002AS, DP51	TGP008	GLP197, GLP202	0 250 403 006, 0 250 403 008
DG-195				CH270	Y8005J, DP64	TGP064	GLP205	0 250 203 009, F 002 G50 048
DG-196				CH269	Y1030J, DP70		GLP066	0 250 202 132
DG-197			CP-72	CH230	Y519J, DP61	TGP057	GLP235	0 250 202 146
DG-198	DG-105, DG-120		PN-135, PM-75	CH94, CH162, CH221	Y115T1, Y707RS	TGP059	GLP034, GPN327	0 250 202 003, 0 250 202 060, 0 250 202 094
DG-202				CH62, CH70	Y909R			0 250 200 049, 0 250 200 053, 0 250 201 012, 0 250 201 014, 0 250 201 034
DG-228		067100-1140	PT-92					
DG-231	DG-229	067100-1250	PT-102					
DG-235		067100-1360	PT-101, PT-109		Y178T		GPT207	0 250 202 119
DG-236		067100-1071	PH-21		Y176		GPH402	
DG-238		067100-1220	PT-149					

PART NUMBER	OLD PART NUMBER	DENSO 10 DIGIT	HKT	CHAMPION	NGK	TRIDON	BOSCH SHORT CODE	BOSCH LONG CODE
DG-240			PT-159	CH252	Y542J, DP45			
DG-241		067100-1621						
DG-245	DG-217		PT-157	CH258	Y531J, DP44	TGP030	GPT901	0 250 202 125
DG-501		067100-1850					GPMS17	
DG-502		067100-1900		CH210, CH260	Y529J			
DG-600			CP-23	CH810	Y1012J, DP65		GLP212	F 01G 000 00P, F 01G 004 02Z
DG-601				CH406, CH809			GLP147	0 250 503 003, F 01G 004 02X
DG-602				CH806	Y527J			0 250 212 011
DG-603				CH803	Y8001AS			0 250 404 001
DG-604				CH802	Y8009AS	TGP056	GLP179	0 250 403 003, 0 250 403 010
DG-605			CP-73	CH814	CZ258, CZ71	TGP054	GPN900	
DG-606			PM-169	CH819	YE13			
DG-608				CH800	Y9003AS		GLP196	0 250 403 005, 0 250 403 011
DG-609					Y1035AS, DP77		GLP221	0 250 403 012
DG-610					Y8008AS, DP74	TGP065	GLP144, GLP2-HS	0 250 403 001
DG-611				CH725			GLP233	0 250 203 018
DG-614					YE08		GLP210, GLP2-4	0 250 203 012
DG-615								
DG-619					Y1036AS		GLP222, GLP2-HS	0 250 403 013
DG-621					Y9001AS, Y9004AS, DP72		GLP226	0 250 403 014
DG-623	DG-607			CH813				
DG-624					Y1003AS			
DG-625				CH716				
DG-626			CP-03		CY58, CZ261		GPN342	0 250 312 001
DG-627								
DG-628							GLP073	0 250 201 036
DG-629				CH404				
DG-630					Y526J1, DP69			
DG-631							GLP237	0 250 403 021
DG-632							GLP-236	0 250 404 002
DG-633							GLP201, GLP2-HS	0 250 403 004
DG-640	DG-300			CH601	CY03, Y603J, DP8, DP60		GLP035	0 250 312 003
DG-642	DG-304		CP-02	CH600	CY52	TGP029	GPN331	0 250 312 002
DG-643	DG-306		CP-05	CH607	CY55		GLP099	0 250 202 121
DG-644	DG-307		CP-01	CH613	CY51	TGP080	GPN330	
DG-645	DG-311			CH614			9 443 612 053	
DG-647	DG-221		PT-103, PT-144		Y118T1		GPT215	
DG-648	DG-201, DG-203, DG-211, DG-230		PT-106, PT-151	CH103, CH154	Y715R	TGP015	GLP042, GPT223	0 250 202 006, 0 250 202 053, 0 250 202 096
DG-649	DG-214		PT-154, PT-152		Y532J		GLP074, GPT233, GPT220	0 250 202 079, 0 250 202 095
DG-650	DG-216		PD-191, PT-150, PT-158		Y703R	TGP083	GPT222, GPT902	0 250 202 052
DG-651	DG-219		PT-153			TGP048	GLP132, GPT228	0 250 202 097
DG-652	DG-204, DG-223		PT-107, PD-190		Y146R	TGP039	GPT212, GPD903	0 250 202 051

GLOW PLUG APPLICATION

MAKE & MODEL				ENGINE				YEAR		PART NUMBER
MODEL	GENERATION	CHASSIS	SERIES	ENGINE CODE	CC	CYLINDERS	VALVE	START	FINISH	
ALFA ROMEO										
6		119_	2.5 TD	VM-HR 588 HT	2494	5	2	1981	1986	DG-202
147		937	1.9 JTDM 16V	937 A5.000	1910	4	4	2004	2010	DG-170
156		932_	1.9 JTD	192 B1.000	1910	4	4	2002	2004	DG-170
		932_	1.9 JTD	937 A4.000	1910	4	4	2003	2006	DG-170
		932_	1.9 JTD--	937 A5.000	1910	4	4	2004	2005	DG-170
		932_	1.9 JTD (932_2B, 932_2C)	937 A2.000	1910	4	2	2001	2005	DG-122
		932_	1.9 JTD (932_2B_)	AR 37101	1910	4	2	2000	2001	DG-122
		932_	1.9 JTD (932B2)	AR 32302	1910	4	2	1997	2000	DG-127
		932_	1.9 JTD 16V	192 A5.000	1910	4	4	2002	2006	DG-170
		932_	2.4 JTD	841 G.000	2387	5	4	2003	2006	DG-122
		932_	2.4 JTD (932_1B_)	839 A6.000	2387	5	2	2000	2005	DG-122
		932_	2.4 JTD (932_XC)	841 C000	2387	5	2	2002	2005	DG-122
		932_	2.4 JTD (932B1)	AR 32501	2387	5	2	1997	2003	DG-122, DG-127
	159		939	1.9 JTDM 16V	939 A2.000	1910	4	4	2005	2011
		939	2.4 JTDM	939 A3.000	2387	5	4	2005	2011	DG-170
		939	2.4 JTDM	939 A9.000	2387	5	4	2007	2011	DG-170
166		936_	2.4 JTD	841 C000	2387	5	2	2002	2007	DG-122
		936_	2.4 JTD	841 H.000, 841 G.000	2387	5	4	2003	2007	DG-170
		936_	2.4 JTD	841 M.000, 936 B.000	2387	5	4	2005	2007	DG-170
		936_	2.4 JTD (936A2A_)	AR 34202	2387	5	2	1998	2000	DG-127
		936_	2.4 JTD (936A2B_)	839 A6.000	2387	5	2	2000	2007	DG-122
GIULIETTA		940	2.0 JTDM	940 B4.000, 940 A4.000	1956	4	4	2010		DG-608
ASIA MOTORS										
ROCSTA			2.2 D 4x4	R2	2184	4	2	1993	1999	DG-114
AUDI										
A1		8X1, 8XK	1.6 TDI	CAYB	1598	4	4	2011		DG-193
		8XA, 8XF	1.6 TDI	CAYB	1598	4	4	2011		DG-193
A3		8P1, 8PA	2.0 TDI	BMM	1968	4	2	2005	2008	DG-177
		8P1, 8PA	2.0 TDI	CFGB, BMN, CB8B	1968	4	4	2006	2013	DG-193
		8P1, 8PA	2.0 TDI 16V	CBAB, CLJA, BKD, CFFB	1968	4	4	2003	2013	DG-177, DG-190, DG-193
		8PA	1.6 TDI	CAYC	1598	4	4	2009	2013	DG-193
		8PA	1.9 TDI	BXE, BKC, BLS	1896	4	2	2004	2010	DG-177
		8V1, 8VK	2.0 TDI	CRLB, CRBC, DEJA, CRUA, DBGA	1968	4	4	2012		DG-193
		8VA, 8VF	1.6 TDI	CLHA	1598	4	4	2012		DG-193
		8EC, 8ED, B7	3.0 TDI	BKN	2967	6	4	2004	2008	DG-193
A4		8EC, 8ED, B7	3.0 TDI	ASB	2967	6	4	2006	2008	DG-193
		8EC, B7 8ED, B7	2.0 TDI 16V	BRE, BLB	1968	4	4	2004	2008	DG-177, DG-190
		8H7, B6, 8HE, B7	2.5 TDI	BCZ, BDG, BFC	2496	6	4	2002	2005	DG-144
		8H7, B6, 8HE, B7	2.7 TDI	BPP	2698	6	4	2006	2009	DG-193
		8H7, B6, 8HE, B7	3.0 TDI	ASB	2967	6	4	2006	2009	DG-193
		8H7, B6, 8HE, B7	3.0 TDI	BKN	2967	6	4	2006	2009	DG-193
		8K2, B8	2.0 TDI	CAGB, CJC8, CSUB	1968	4	4	2007	2015	DG-193
		8K2, B8	2.0 TDI	CMEA, CJCA, CAGA, CMFA	1968	4	4	2007	2015	DG-193
		8K2, B8	2.0 TDI	CAHA	1968	4	4	2008	2012	DG-193
		8K2, B8	2.0 TDI	CGLC, CMGB	1968	4	4	2011	2015	DG-193

MAKE & MODEL				ENGINE				YEAR		PART NUMBER
MODEL	GENERATION	CHASSIS	SERIES	ENGINE CODE	CC	CYLINDERS	VALVE	START	FINISH	
AUDI (CONT)										
A4		8K2, B8	2.7 TDI	CGKA, CAMA	2698	6	4	2007	2012	DG-193
		8K2, B8	3.0 TDI	CCWA, CCLA, CAPA	2967	6	4	2007	2012	DG-193
A5		8F7	3.0 TDI	CCWA	2967	6	4	2009	2012	DG-193
		8F7	3.0 TDI	CKVC, CDUC	2967	6	4	2011	2017	DG-193
		8F7, 8TA	2.0 TDI	CGLC	1968	4	4	2009	2017	DG-193
		8T3	2.0 TDI	CGLC	1968	4	4	2011	2017	DG-193
		8T3	3.0 TDI	CDUC, CKVB, CKVC	2967	6	4	2011	2017	DG-193
		8T3, 8TA	3.0 TDI	CAPA, CCWA	2967	6	4	2007	2012	DG-193
A6		4F2, C6	2.0 TDI	CAHA	1968	4	4	2008	2011	DG-193
		4F2, C6	2.7 TDI	CANA	2698	6	4	2008	2011	DG-193
		4F2, C6	2.7 TDI	BPP	2698	6	4	2004	2008	DG-193
		4F2, C6	3.0 TDI	BMK	2967	6	4	2004	2006	DG-193
		4F2, C6	3.0 TDI	CDYA, CDYC	2967	6	4	2008	2011	DG-193
		4F5, C6	3.0 TDI	BMK	2967	6	4	2005	2006	DG-193
		4F5, C6	3.0 TDI	CDYC, CDYA	2967	6	4	2008	2011	DG-193
		4G2, C7, 4GC	2.0 TDI	CGLC, CMGB	1968	4	4	2011		DG-193
		4G2, C7, 4GC	3.0 TDI	CDUD, CDUC, CKVC, CKVB	2967	6	4	2011		DG-193
		4G2, C7, 4GC	3.0 TDI	CLAA	2967	6	4	2011		DG-193
		4G5, C7, 4GD	2.0 TDI	CGLC, CMGB	1968	4	4	2011		DG-193
A6 ALLROAD		4FH, C6	3.0 TDI	ASB	2967	6	4	2006	2008	DG-193
		4FH, C6	3.0 TDI	CDYA, CDYC	2967	6	4	2008	2011	DG-193
A7		4GA, 4GF	3.0 TDI	CKVC, CDUC, CKVB, CDUD	2967	6	4	2010		DG-193
A8		4D2, 4D8	3.3 TDI	AKF	3328	8	5	2000	2002	DG-144
		4E_	3.0 TDI	ASB	2967	6	4	2003	2010	DG-144, DG-193
		4E_	4.2 TDI	BVN	4134	8	4	2005	2010	DG-193
		4H_	3.0 TDI	CDTA, CDTG, CMHA	2967	6	4	2010		DG-193
		4H_	4.2 TDI	CDSB	4134	8	4	2009		DG-193
ALLROAD		4BH, C5	2.5 TDI	AKE, BAU	2496	6	4	2000	2005	DG-144
Q3		8U	2.0 TDI	CFFB, CLJA	1968	4	4	2011		DG-193
		8U	2.0 TDI	CFGD	1968	4	4	2011		DG-193
Q5		8R	2.0 TDI	CGLB, CMGA, CAHA	1968	4	4	2008		DG-193
		8R	2.0 TDI	CGLC, CMGB	1968	4	4	2012		DG-193
		8R	3.0 TDI	CCWA, CPNB	2967	6	4	2008		DG-193
Q7		4L	3.0 TDI	BUG	2967	6	4	2006	2008	DG-193
		4L	3.0 TDI	CCMA, CNRB, CJGA, CASA	2967	6	4	2007	2015	DG-193
		4L	3.0 TDI	CLZB, CJGD, CRCA	2967	6	4	2011	2015	DG-193
		4L	4.2 TDI	BTR	4134	8	4	2007	2009	DG-193
		4L	4.2 TDI	CCFA, CCFC	4134	8	4	2009	2015	DG-193
		4L	6.0 TDI	CCGA	5934	12	4	2008	2014	DG-193
TT		8J3	2.0 TDI	CBBB, CFGB	1968	4	4	2008	2014	DG-193
		8J9	2.0 TDI	CFGB, CBBB	1968	4	4	2008	2014	DG-193
BEDFORD										
CF		CF97	2.0 D		1998	4	2	1980	1983	DG-001
		CF97	2.1 D		2068	4	2	1981	1987	DG-012
		CF97	2.3 D		2260	4	2	1973	1987	DG-001

MAKE & MODEL				ENGINE				YEAR		PART NUMBER
MODEL	GENERATION	CHASSIS	SERIES	ENGINE CODE	CC	CYLINDERS	VALVE	START	FINISH	
BMW										
1		E81	120 d	N47 D20 C, N47 D20 A	1995	4	4	2006	2011	DG-178
		E87	118 d	N47 D20 A, N47 D20 C	1995	4	4	2006	2011	DG-178
		E87	120 d	N47 D20 (204D4)	1995	4	4	2003	2011	DG-178
3		E36	318 tds	M41 D17 (174T1)	1665	4	2	1995	2000	DG-001
		E36	325 td	M51 D25 (256T1)	2497	6	2	1991	1998	DG-001
		E36	325 tds	M51 D25 (256T1)	2503	6	2	1993	1999	DG-001
		E46	318 d	M47 D20 (204D1)	1951	4	4	2001	2003	DG-178
		E46	318 d	M47 D20 (204D4)	1995	4	4	2003	2005	DG-178
		E46	318 td	M47 D20 (204D4)	1995	4	4	2003	2005	DG-178
		E46	320 d	M47 D20 (204D1)	1951	4	4	1998	2001	DG-145
		E90	318 d	M47 D20 (204D4)	1995	4	4	2005	2007	DG-178
		E90	320 d	M47D20 (204D4), N47D20	1995	4	4	2004	2011	DG-178
		E90	320 d	M47 D20 (204D4)	1995	4	4	2005	2011	DG-178
		E90	330 d	M57 D30 (306D3)	2993	6	4	2004	2008	DG-178
		E90	330 d	N57 D30 A	2993	6	4	2008	2011	DG-178
		E91	318 d	M47 D20 (204D4)	1995	4	4	2005	2012	DG-178
5		E60	520 d	N47 D20 A, N47 D20 C	1995	4	4	2006	2009	DG-178
		E60	530 d	M57 D30 (306D2)	2993	6	4	2002	2005	DG-178
		E60	530 d	M57 D30 (306D3)	2993	6	4	2005	2007	DG-178
		E60	535 d	M57 D30 (306D4)	2993	6	4	2004	2010	DG-178
X3		E83	2.0 d	M47 D20 (204D4)	1995	4	4	2003	2011	DG-178
		E83	2.0 d	N47 D20 A, N47 D20 C	1995	4	4	2007	2011	DG-178
		E83	3.0 d	M57 D30 (306D2)	2993	6	4	2003	2011	DG-178
		E83	3.0 d	M57 D30 (306D3)	2993	6	4	2004	2011	DG-178
X5		E53	3.0 d	M57 D30 (306D1)	2925	6	4	2001	2003	DG-145
		E53	3.0 d	M57 D30 (306D2)	2993	6	4	2003	2006	DG-178
		E70	3.0 d	M57 D30 (306D3)	2993	6	4	2007	2008	DG-178
		E70	3.0 sd	M57 D30 (306D5)	2993	6	4	2007	2009	DG-178
		E70	xDrive 30 d	N57 D30 A	2993	6	4	2010	2013	DG-178
CADILLAC										
BLS			1.9 D		1910	4	4	2006		DG-170, DG-608
CHEVROLET										
C1500			6.5TDiC		6462	8	2	1993	2001	DG-001, DG-175
C2500			6.5TDiC		6462	8	2	1993	2001	DG-001, DG-175
C3500			6.5TDiC		6462	8	2	1993	2001	DG-001, DG-175
CAPTIVA		C100, C140	2.0 D		1991	4	4	2006		DG-604
CRUZE		J300	2.0 CDI		1991	4	4	2009		DG-604
EPICA		KL1_	2.0 D	Z 20 S	1991	4	4	2007		DG-604
NUBIRA			2.0 D		1991	4	4	2005		DG-604
TAHOE		GMT400	6.5TDiC		6462	8	2	1994	1996	DG-001, DG-175
CHRYSLER										
300 C		LX	3.0 CRD	EXL	2987	6	4	2005	2012	DG-194
PT CRUISER		PT_	2.2 CRD		2148	4	4	2002	2010	DG-117
SEBRING		JS	2.0 CRD	ECD	1968	4	4	2007	2010	DG-190
VOYAGER	II	ES	2.5TD		2500	4	2	1992	1995	DG-001

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MODEL	GENERATION	CHASSIS	SERIES	ENGINE CODE	CC	CYLINDERS	VALVE	START	FINISH	
CHRYSLER (CONT)										
VOYAGER	III	GS	2.5 TD		2499	4	2	1995	2001	DG-001, DG-109
	IV	RG, RS	2.5 CRD		2499	4	4	2000	2008	DG-176
	IV	RG, RS	2.8 CRD		2776	4	4	2004	2008	DG-176
CITROEN										
BERLINGO		B9	1.6 HDi 90 16V	9H_ (DV6TED4BU, DV6ATED4, DV6AUTED4)	1560	4	4	2008		DG-180
C2		JM_	1.4 HDi	8HZ (DV4TD), 8HX (DV4TD)	1398	4	2	2003		DG-113
C3	II	A3	1.6 HDi 90	9HX (DV6ATED4)	1560	4	4	2009	2014	DG-180
C4	I	LC_	1.6 HDi	9HY (DV6TED4), 9HZ (DV6TED4)	1560	4	4	2004	2011	DG-113, DG-180
	I	UA_	2.0 HDi 138	RHR (DW10BTED4), RHJ (DW10BTED4)	1997	4	4	2006		DG-181, DG-116
	I	UD_	2.0 HDi 138	RHR (DW10BTED4), RHJ (DW10BTED4)	1997	4	4	2006	2013	DG-181, DG-116
	II	B7	1.6 HDi 110	9HR (DV6C)	1560	4	2	2009		DG-180
	II	B7	2.0 BlueHDi 150	RHE (DW10CTED4), AHR (DW10FD)	1997	4	4	2009		DG-181, DG-116
C5	I	DC_	2.0 HDi (DCRHZB, DCRHZE)	RHZ (DW10ATED)	1997	4	2	2001	2004	DG-116
	II	RC_	2.2 HDi (RC4HXE)	4HX (DW12TED4/FAP)	2179	4	4	2004		DG-181
	II	RE_	2.2 HDi	4HT (DW12BTED4)	2179	4	4	2006		DG-180, DG-181, DG-614
	II	RE_	2.2 HDi (RE4HXE)	4HX (DW12TED4/FAP)	2179	4	4	2004		DG-181
	III	RD_	2.0 HDi	RHR (DW10BTED4), RHF (DW10BTED4)	1997	4	4	2008		DG-181, DG-116
	III	RD_	2.7 HDi	DT17ED4	2720	6	4	2008		DG-140
	III	TD_	2.0 HDi	RHR (DW10BTED4)	1997	4	4	2008		DG-181, DG-116
	III	TD_	2.7 HDi	DT17ED4, UHZ (DT17BTED4)	2720	6	4	2008		DG-140
C6		TD_	2.7 HDi	DT17ED4, UHZ (DT17BTED4)	2720	6	4	2005		DG-140
DISPATCH			2.0 HDi 120	RHK (DW10UTED4)	1997	4	4	2007		DG-181, DG-116
DS4			1.6 HDi 110	9HR (DV6C)	1560	4	2	2011	2015	DG-603
XANTIA		X1	1.9 Turbo D	DHX (XUD9TF/BTF), DHY (XUD9TE/Y)	1905	4	2	1994	1998	DG-001
		X2	1.9 Turbo D	DHY (XUD9TE/Y), DHX (XUD9TF/BTF)	1905	4	2	1998	2003	DG-001
XSARA		N1	2.0 HDi 90	RHY (DW10TD)	1997	4	2	1999	2005	DG-116
DAEWOO										
KORANDO		KJ	2.9 D		2874	5	2	1999		DG-010
		KJ	2.9 TD		2874	5	2	1999		DG-010
MUSSO		FJ	2.2 TD		2299	4	2	1999		DG-010
		FJ	2.9 D 4x4	MB-OM 662	2874	5	2	1999	1999	DG-010
		FJ	2.9 TD	MB-OM 601 29TD	2874	5	2	1998	2002	DG-010
REXTON		GAB_	2.9 TD		2874	5	2	2002		DG-010
DAIHATSU										
CHARADE	II	G11, G30	1.0 D (G30)		993	3	2	1983	1987	DG-652
	III	G100, G101, G102	1.0 D (G101)		993	3	2	1987	1992	DG-650
	III	G100, G101, G102	1.0 TD (G101)		993	3	2	1987	1992	DG-650
DELTA WIDE		YB_	2.8 D		2765	4	2	1987	1999	DG-652

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MODEL	GENERATION	CHASSIS	SERIES	ENGINE CODE	CC	CYLINDERS	VALVE	START	FINISH	
DAIHATSU (CONT)										
HUJET		S85	1.2 D		1221	4	2	1995	1998	DG-001
ROCKY		F70, F75, F80, F85	2.8 D (F70, F75, F80, F85)	DL	2765	4	2	1985	1998	DG-652
		F70, F75, F80, F85	2.8 TD (F70, F75, F80, F85)	DL 51, DL 52, DLT	2765	4	2	1987	1993	DG-652
SCAT		F60, F65	2.8 D 4x4 (F60, F65)	DL	2765	4	2	1982	1985	DG-652
DODGE										
AVENGER		JS	2.0 CRD	ECD	1968	4	4	2007		DG-190
CALIBER			2.0 CRD	ECD, ECE	1968	4	4	2006		DG-190
CARAVAN			2.5 TD		2499	4	2	1995	2001	DG-001, DG-109
FIAT										
500		312_	1.3 D Multijet	169 A1.000	1248	4	4	2007		DG-171
DOBLO		263_	1.3 D Multijet	199 A3.000, 263 A2.000	1248	4	4	2010		DG-171
		263_	1.6 D Multijet	198 A3. 263 A4. 263 A5. 263 A8. 263 A9.	1598	4	4	2010		DG-608
		263_	2.0 D Multijet	263 A1.000	1956	4	4	2010		DG-608
DUCATO		23_ 25_ 29_	180 Multijet 3, 0 D	F1CE3481E	2999	4	4	2011		DG-195
		230_	2.8 TDI	8140.43	2800	4	2	1997	2002	DG-111
		244_	2.3 JTD	F1AE0481C	2286	4	4	2002		DG-195
		244_	2.8 JTD	8140.43S	2798	4	2	2002	2006	DG-111
		250_ , 290_	120 Multijet 2, 3 D	F1AE0481D, FPT	2287	4	4	2006		DG-195
		250_ , 290_	130 Multijet 2, 3 D	F1AE0481N, F1AE3481D, F1AGL411D	2287	4	4	2011		DG-195
		250_ , 290_	160 Multijet 3, 0 D	F1CE0481D	2999	4	4	2006		DG-195
FIORINO		225_	1.3 D Multijet	199 A2.000, 199 A9.000	1248	4	4	2007		DG-171
FREEMONT		JC_ , JF_	2.0 JTD	939 B5.000	1956	4	4	2011		DG-608
LINEA		323_	1.3 D Multijet	199 A3.000	1248	4	4	2007		DG-171
		323_	1.6 D Multijet	198 A3.000	1598	4	4	2009		DG-608
PANDA		169_	1.3 D Multijet 4x4	169 A1.000	1248	4	4	2006		DG-171
PUNTO		199_	1.3 D Multijet	199 A3.000	1248	4	4	2005	2009	DG-171
		199_	1.9 D Multijet	199 A5.000, 939 A1.000	1910	4	2	2005	2009	DG-122, DG-196
QUBO		225_	1.3 D Multijet	199 A2.000, 199 A9.000	1248	4	4	2008		DG-171
RITMO	III	198_	1.9 D Multijet	192 A8.000, 937 A5.000	1910	4	2	2007	2009	DG-196
		138_	1.7 Diesel	138 A5.000	1714	4	2	1979	1982	DG-001
SCUDO		270_ , 272_	2.0 D Multijet	RHK	1997	4	4	2007		DG-116, DG-181
FORD										
COURIER		PC	2.2 D	R2	2184	4	2	1985	1996	DG-114
		PD	2.5 D	WL	2500	4	3	1996	1999	DG-146
		PE	2.5 TD	WLAT (12 V)	2500	4	3	1999	2002	DG-146
		PG	2.5 TD	WLAT (12 V)	2500	4	3	2002	2004	DG-146
		PH	2.5 TD	WLAT (12 V)	2500	4	3	2004	2006	DG-146
		PH	2.5 TD	WLT	2500	4	3	2004	2006	DG-146
ECONOVAN			2.2 D	R2	2184	4	2	1984	1997	DG-114
FIESTA		WS	1.6 TDCi	HHJD	1560	4	4	2009	2010	DG-178, DG-180
		WT	1.6 TD	HHJC	1560	4	4	2010	2012	DG-178, DG-180
FOCUS		LT	2.0 TDCi	G6DA	1997	4	4	2007	2009	DG-181

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FORD (CONT)										
FOCUS		LV	2.0 TDCi	G6DA	1997	4	4	2009	2011	DG-181
		LW	2.0 TDCi	TXDB	1997	4	4	2011	2015	DG-603
MAVERICK		DA	4.2 TD	TD42	4169	6	2	1988	1994	DG-198
MONDEO		MA, MB, MC	2.0 TDCi	AZBA	1997	4	4	2007	2015	DG-181, DG-603
RANGER		PJ	2.5 TDdi	WLAT (16 V)	2500	4	4	2006	2009	DG-630
		PJ	3.0 TD	WEAT	2953	4	4	2006	2009	DG-630
		PJ	3.0 TDdi	WEAT	2953	4	4	2006	2009	DG-630
		PK	2.5 TDdi	WLAT (16 V)	2500	4	4	2009	2011	DG-630
		PK	3.0 TDdi	WEAT	2953	4	4	2009	2011	DG-630
		PX	2.2 TDdi	GBVAJQJ	2198	4	4	2011		DG-611
		PX	3.2 TDdi	P5-AT, SAFA	3198	5	4	2011		DG-611
TERRITORY		SZ	2.7 V6 TDCi	276DT	2720	6	4	2011		DG-140
TRANSIT		VF, VG	2.5 D	4FB	2496	4	2	1994	2000	DG-001
		VF, VG	2.5 D	4HB	2496	4	2	1994	2000	DG-001
		VF, VG	2.5 D	4HC	2496	4	2	1994	2000	DG-001
		VF, VG	2.5 TD	4DA, 4EB, 4ED	2496	4	2	1991	1994	DG-001
		VF, VG	2.5 TD	4GF	2496	4	2	1994	2000	DG-001
		VH, VJ	2.4 D	D2FA, D4FA	2402	4	4	2000	2006	DG-130
		VH, VJ	2.4 D	DOFA	2402	4	4	2001	2006	DG-130
		VH, VJ	2.4 D	FXFA, H9FA	2402	4	4	2004	2006	DG-130
		VM	2.2 TD	QVFA	2198	4	4	2006	2014	DG-130
		VM	2.2 TDCi	SRFB, SRFA, SRFD, SRFE, SRFC	2198	4	4	2010	2014	DG-130
		VM	2.4 D	FXFA, PHFC	2402	4	4	2006	2014	DG-130
		VM	2.4 TD	H9FB	2402	4	4	2006	2014	DG-130
HOLDEN										
ASTRA		AH	1.9 CDTi	Z 19 DT	1910	4	2	2006	2010	DG-122
		AH	1.9 CDTi	Z 19 DTH	1910	4	4	2006	2010	DG-170
CAPTIVA		CG	2.0 TD	Z 20 S1	1991	4	4	2007	2011	DG-604
CRUZE		JG	2.0 DTFi	Z 20 S1	1991	4	4	2009	2011	DG-604
EPICA		EP	TD	X 20 S1	1991	4	4	2008	2011	DG-604
JACKAROO		UBS	2.2 TD (UBS52)	C223-T	2238	4	2	1984	1988	DG-124
		UBS	2.8 TD (UBS55)	4JB1-T	2771	4	2	1987	1992	DG-108
		UBS	3.0 TD 4x4 (UBS73)	4JX1-T	2999	4	4	1998	2004	DG-186
		UBS	3.1 TD 4x4 (UBS69)	4JG2-TC	3059	4	2	1992	1998	DG-104
RODEO		KB	2.0 D	C190	1951	4	2	1981	1982	DG-143
		RA	3.0 DiTD	4JJ1-TC	2999	4	4	2007	2008	DG-108
		RA	3.0 TD	4JH1-TC	2999	4	2	2003	2007	DG-108
		TF	2.5 D	4JA1	2499	4	2	1988	1992	DG-108
		TF	2.8 TD	4JB1-T	2771	4	2	1990	2003	DG-108
		TF	3.0 TD	4JH1-TC	2999	4	2	2001	2003	DG-108
HONDA										
ACCORD	V	CE, CF_	2.0 TDi (CF1)		1994	4	2	1996	1998	DG-101
	VI	CH, CL	2.0 TDi (CH8)		1994	4	2	1999	2000	DG-101
	VII	CK, CG, CH, CF8	2.0 Turbo DI (CH2)		1994	4	2	1999	2002	DG-101
	VII	CM, CN	2.2 i-CTDi (CN2)		2204	4	4	2004	2008	DG-601
	VIII	CW	2.2 i-DTEC (CW3)		2199	4	4	2008		DG-601

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HONDA (CONT)										
ACCORD EURO	VII	CL, CN	2.2 i-CTDi (CN1)		2204	4	4	2004	2008	DG-601
	VIII	CU	2.2 i-DTEC (CU3)		2199	4	4	2008	2015	DG-601
CIVIC	VI	MA, MB	2.0 iTD (MB7)		1994	4	2	1997	2001	DG-101
	VI	MB, MC	2.0 i D (MC3)		1994	4	2	1998	2001	DG-101
	VIII	FN, FK	2.2 CTDi (FK3)		2204	4	4	2005		DG-601
CR-V	II	RD_	2.2 CTDi (RD9)		2204	4	4	2005	2006	DG-601
	III	RE	2.2 i-CTDi 4WD (RE6)		2204	4	4	2007		DG-601
FR-V		BE	2.2 i CTDi (BE5)		2204	4	4	2005		DG-601
HUMMER										
HUMMER	H1		6.5 D		6500	8	2	1992	1997	DG-175
HYUNDAI										
ELANTRA LAVITA		FC	1.5 CRDi	D3EA	1496	3	4	2001	2010	DG-173
		FC	1.5 CRDi	D4FA	1493	4	4	2004	2010	DG-173
		FC	1.5 CRDi VGT	D4FA	1493	4	4	2005	2010	DG-602
GRANDEUR		TG	2.2 CRDi	D4EB	2188	4	4	2006	2010	DG-173
i10		PA	1.1 CRDi	D3FA	1120	3	4	2008	2011	DG-602
i30		FD	1.6 CRDi	D4FB	1582	4	4	2007	2011	DG-173, DG-602
		GD	1.6 CRDi	D4FB	1582	4	4	2011	2016	DG-602
iLoad		TQ	2.5 CRDi	D4CB	2497	4	4	2008		DG-189
iMAX		TQ	2.5 CRDi	D4CB	2497	4	4	2008		DG-189
ix35		LM	2.0 CRDi 4WD	D4HA	1995	4	4	2010		DG-624
SANTA FE	II	CM	2.2 CRDi	D4EB	2188	4	4	2006	2012	DG-173
SONATA	V	NF	2.0 CRDi	D4EA	1991	4	4	2009	2010	DG-173
TRAJET		FO	2.0 CRDi	D4EA	1991	4	4	2001	2008	DG-173
ISUZU										
GEMINI		JT	1.5 D	4EC1	1488	4	2	1988	1990	DG-124, DG-143
		JT	1.5 TD	4EC1T	1488	4	2	1988	1990	DG-104, DG-159
MU		_U_	3.1 TD 4x4 (UCS69)	4JG2 TC	3059	4	2	1993	1998	DG-104
IVECO										
DAILY	III		35 S 9 V, 35 C 9 V	8140.63.	2798	4	2	1999	2007	DG-111
	III		35S15 V, 35C15 V	8140.43N	2798	4	2	2002	2007	DG-111
	IV		29L10 V	F1AE0481FA	2287	4	4	2006	2011	DG-195
	IV		35S14, 35C14	F1AE0481HA	2287	4	4	2006	2011	DG-195
	IV		45C15, 50C15	F1CE0481FA	2998	4	4	2006	2011	DG-195
	IV		45C15, 50C15	F1CE0481HA	2998	4	4	2006	2011	DG-195
	IV		50C18 V, 50C18 V/P	F1CE0481HA	2998	4	4	2006	2011	DG-195
	IV		55S17 W, 55S17 WD	F1CE0481HA	2998	4	4	2007	2011	DG-195
	IV		65C18	F1CE0481HC	2998	4	4	2006	2011	DG-195
	V		29L11, 35C11, 35S11, 40C11	F1AE3481A	2287	4	4	2011	2014	DG-195
	V		29L13, 35/40C13, 35/40S13	F1AE3481B	2287	4	4	2011	2014	DG-195
	V		29L15, 35/40/50C15L	F1AE3481C	2287	4	4	2011	2014	DG-195
	V		35/40/45/50/60/70C17, 35S17	F1CE3481C, F1CE3481K	2998	4	4	2011	2014	DG-195
	V		35/40/45/50/60/70C21, 35S21	F1CE3481D	2998	4	4	2011	2014	DG-195
	V		35C15 V, 40C15 V	F1CE3481J, F1CE3481L	2998	4	4	2011	2014	DG-195
JAGUAR										
S-TYPE		CCX_	2.7 D	AJD	2720	6	4	2004	2007	DG-140

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MODEL	GENERATION	CHASSIS	SERIES	ENGINE CODE	CC	CYLINDERS	VALVE	START	FINISH	
JAGUAR (CONT)										
XF		X250	2.7 D	AJD	2720	6	4	2008	2015	DG-140
XJ		X350_	2, 7 D	AJD	2720	6	4	2005	2009	DG-140
X-TYPE		CF1_	2.0 D	FMBA, FMBB, R4-X404	1998	4	4	2003	2009	DG-130
		CF1_	2.2 D	LJ46G	2198	4	4	2007	2009	DG-130, DG-614
JEEP										
CHEROKEE		KJ	2.5 CRD	R 425 DOHC	2499	4	4	2001	2008	DG-176
		KJ	2.8 CRD 4x4	ENR	2776	4	4	2002	2008	DG-176
		KK	2.8 CRDi	ENS	2777	4	4	2010	2013	DG-610
		XJ	2.5 Tdi 4x4	ENC	2498	4	2	1996	2001	DG-001, DG-109
COMMANDER		XK, XH	3.0 CRD 4x4	EXL	2987	6	4	2006	2010	DG-194
COMPASS		MK49	2.0 CRD 4x4	ECE	1968	4	4	2006		DG-190
GRAND CHEROKEE	II	WJ, WG	2.7 CRD 4x4	ENF	2685	5	4	2001	2005	DG-109, DG-177
	III	WH, WK	3.0 CRD 4x4	EXL	2987	6	4	2005	2010	DG-194
	IV	WK, WK2	3.0 CRD V6 4x4	EXF	2987	6	4	2011		DG-194, DG-608
PATRIOT		MK74	2.0 CRD 4x4	ECE, ECD	1968	4	4	2007		DG-190
WRANGLER	III	JK	2.8 CRD	ENS	2776	4	4	2010		DG-610
KIA										
BESTA			2.2 D	R2	2184	4	2	1996	2003	DG-146
CARENS	II	FJ	2.0 CRDi	D4EA	1991	4	4	2002		DG-173
CARNIVAL	III	VQ	2.2 CRDi	D4HB	2199	4	4	2010		DG-174
	III	VQ	2.9 CRDi	J3	2902	4	4	2006		DG-172, DG-174
CERATO		LD	1.6 CRDi	D4FB	1582	4	4	2005		DG-173
		LD	2.0 CRDi	D4EA	1991	4	4	2004		DG-173
CERES			2.4 D	SC	2367	4	2	1997	2000	DG-146
K2700		SD	2.7 D	J2	2665	4	2	1999		DG-146
PICANTO		BA	1.1 CRDi	D3FA	1120	3	4	2005		DG-602
PREGIO		TB	2.7 D	J2	2665	4	2	1997	2006	DG-146
SORENTO	I	BL	2.5 CRDi	D4CB	2497	4	4	2006	2009	DG-189
	II	XM	2.2 CRDi	D4HB	2199	4	4	2009	2015	DG-624
SOUL		AM	1.6 CRDi 128	D4FB	1582	4	4	2009	2014	DG-602, DG-624
SPORTAGE		KM	2.0 CRDi	D4EA-V, D4EA-F	1991	4	4	2006	2010	DG-173
		SL	2.0 CRDi	D4HA	1995	4	4	2010		DG-624
LADA										
NIVA		2121	1900 Diesel		1905	4	2	1993	2006	DG-001
LANCIA										
KAPPA		838_	2.4 JTD (838_L1AA)	838 A8.000	2387	5	2	1998	2001	DG-122
		838_	2.4 T.DS (838__1AA)	838 A3.000, 838 A7.000	2387	5	2	1994	2001	DG-102
LYBRA		839_	1.9 JTD	937 A2.000	1910	4	2	2001	2005	DG-122
		839_	1.9 JTD (839_XD1A)	AR 32302	1910	4	2	1999	2000	DG-122
		839_	1.9 JTD (839_XI1A)	AR 37101	1910	4	2	2000	2001	DG-122
		839_	2.4 JTD	841 C.000	2387	5	2	2002	2005	DG-122
		839_	2.4 JTD (839_XE1A)	AR 32501, 839 A5.000	2387	5	2	1999	2001	DG-122
		839_	2.4 JTD (839_XL1A)	839 A6.000	2387	5	2	2000	2002	DG-122
LAND ROVER										
88/109		LR_	2.3D (LR88DP, LR109DP)	10 J, 23 J	2286	4	2	1963	1986	DG-001
90/110		DHMC	2.5 D	12 J	2495	4	2	1983	1990	DG-001

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LAND ROVER (CONT)										
90/110		DHMC	2.5 TD	19 J	2494	4	2	1986	1990	DG-001
DEFENDER		LD_	2.4 Td4 (L317)	ZSD-424	2402	4	4	2007	2016	DG-130
		LD_	2.5 Td5 (L316)	0.917	2495	5	2	1998	2016	DG-182
		LD_	2.5 Td5 (L316)	10 P, 14 P, 15 P	2495	5	2	1998	2016	DG-182
		LD_	2.5 TDI (L316)	11 L, 23 L, 16 L	2495	4	2	1990	2001	DG-115
DISCOVERY	I	LJ_	2.5 D	19 L, 17 L, 22 L	2496	4	2	1993	1998	DG-115
	I	LJ_	2.5 TDI	12 L, 19 L, 21 L, 17 L	2496	4	2	1989	1998	DG-115
	II	LT_	2.5 Td5	10 P, 15 P	2495	5	2	1999	2004	DG-182
	III	LA_	2.7 TD	276DT	2720	6	4	2004	2009	DG-140
	IV	LA_	2.7 TD	276DT	2720	6	4	2009		DG-140
FREELANDER		LN_	2.0 DI	20 T2N	1994	4	2	1998	2000	DG-101
		LN_	2.0 Td4	M 47, 204D3	1951	4	4	2000	2006	DG-145
		LN_	2.0 Td4	204D3	1951	4	4	2001	2006	DG-145
FREELANDER 2		LF_	2.2 TD4	224DT, DW12BTED4	2179	4	4	2006	2014	DG-614
RANGE ROVER	I	A_, HA_, R_	2.4 TD	0.458	2393	4	2	1986	1992	DG-202
	I	A_, HA_, R_	2.5 TD	14 L, 21 L	2495	4	2	1989	1994	DG-202
	II	LP_	2.5 D	19 L, 22 L	2496	4	2	1994	2002	DG-001
	II	LP_	2.5 D	25 6T (BMW)	2497	6	2	1994	2002	DG-001
	III	LM_	3.0 D	306D1	2926	6	4	2002	2012	DG-145
	III	LM_	3.6 D	368DT	3628	8	4	2006	2012	DG-140
RANGE ROVER SPORT		LS_	2.7 D	276DT	2720	6	4	2005	2013	DG-140
		LS_	3.6 D	368DT	3628	8	4	2006	2013	DG-140
LDV										
MAXUS			2.5 D	VM39C	2499	4	4	2005	2008	DG-176
			2.5 D	B5580VM	2499	4	4	2005	2009	DG-176
			2.5 D	B5582VM	2499	4	4	2006	2009	DG-176
MAHINDRA										
CJ 3			2.1 D	XDP 290	2112	4	2	1988	1992	DG-001
CJ5			2.1 D 4x4	XDP 290	2112	4	2	1987	2016	DG-001
MAZDA										
3		BK	2.0 MZR-CD	RF7J	1998	4	4	2006	2009	DG-502
		BL	2.2 MZR CD	R2AA	2184	4	4	2009	2013	DG-502
5		CR19	2.0 CD	RF7J	1998	4	4	2005	2010	DG-502
6		GG	2.0 DI	RF7J	1998	4	4	2005	2008	DG-502
		GH	2.2 MZR-CD	R2AA	2184	4	4	2008	2012	DG-502
		GY	2.0 DI	RF7J	1998	4	4	2005	2008	DG-502
626	II	GC	2.0 D	RF46	1998	4	2	1983	1987	DG-114, DG-146
323 PROTEGE	V	BA	2.0 D	RF1G	1998	4	2	1996	1998	DG-502
BONGO FRIENDEE		SG	2.5 TD (SGL35, SGLW)	WL-T (12 V)	2499	4	3	1995	2001	DG-146
B-SERIE BRAVO		UF	2.2 D	R290	2184	4	2	1985	1996	DG-146, DG-114
		UF	2.5 D	WL	2499	4	3	1996	1999	DG-146
		UF	2.5 D	WL31	2499	4	3	1996	1999	DG-146
		UN	2.5 D 4WD	WLF5	2499	4	3	1999	2005	DG-146
		UN	2.5 TD	WL-T	2499	4	3	1999	2005	DG-146
		UN	2.5 TD	WL-T (12 V)	2500	4	3	1999	2005	DG-146
BT-50		CD, UN	2.5 CDVi	WLAT (16 V)	2500	4	4	2006	2011	DG-630
		CD, UN	3.0 CDVi	WEAT	2953	4	4	2006	2011	DG-630

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MAZDA (CONT)											
CX-7		ER	2.2 MZR-CD AWD	R2AA	2184	4	4	2009	2013	DG-502	
E-SERIE		SR1	E2200 D 4WD	R2	2184	4	2	1984	1988	DG-114	
		SR2	E2200 D	R207, R203	2184	4	2	1991	2003	DG-114	
MPV	I	LV	2.5 TD	WL-T	2500	4	3	1996	1999	DG-146	
MERCEDES											
190		W201	D 2.0 (201.122)	OM 601.911	1997	4	2	1983	1989	DG-001, DG-010	
		W201	D 2.5 (201.126)	OM 602.911	2497	5	2	1985	1993	DG-001, DG-010	
		W201	Turbo-D 2.5 (201.128)	OM 602.961	2497	5	2	1988	1993	DG-010	
A-CLASS		W169	A 180 CDI (169.007, 169.307)	OM 640.940	1991	4	4	2004	2012	DG-194	
		W169	A 200 CDI (169.008, 169.308)	OM 640.941	1991	4	4	2004	2012	DG-194	
B-CLASS		W245	B 180 CDI (245.207)	OM 640.940	1991	4	4	2005	2011	DG-194	
		W245	B 200 CDI (245.208)	OM 640.941	1991	4	4	2005	2011	DG-194	
C-CLASS		CL203	C 200 CDI (203.707)	OM 646.962	2148	4	4	2003	2008	DG-117	
		CL203	C 220 CDI (203.706)	OM 611.962	2148	4	4	2001	2004	DG-117	
		CL203	C 220 CDI (203.708)	OM 646.963	2148	4	4	2004	2008	DG-117	
		CL203	C 30 CDI AMG (203.718)	OM 612.990	2950	5	4	2002	2008	DG-192	
		S202	C 200 T CDI (202.194)	OM 611.960	2151	4	4	1998	2001	DG-117	
		S202	C 200 T D (202.180)	OM 604.915	1997	4	4	1996	2001	DG-106	
		S202	C 220 T CDI (202.193)	OM 611.960	2151	4	4	1997	2001	DG-117	
		S202	C 220 T D (202.182)	OM 604.910	2155	4	4	1996	2001	DG-106, DG-119, DG-010	
		S202	C 250 T Turbo-D (202.188)	OM 605.960	2497	5	4	1996	2001	DG-106	
		W202	C 250 D (202.125)	OM 605.910	2497	5	4	1993	2000	DG-106, DG-119	
		W202	C 250 Turbo-D (202.128)	OM 605.960	2497	5	4	1995	2000	DG-106	
		W203	C 200 CDI (203.004)	OM 611.962	2148	4	4	2000	2007	DG-117	
		W203	C 220 CDI (203.006)	OM 646.963, OM 611.962	2148	4	4	2000	2007	DG-117	
		W203	C 220 CDI (203.008)	OM 646.963	2148	4	4	2003	2007	DG-117	
		W203	C 320 CDI (203.020)	OM 642.910	2987	6	4	2005	2007	DG-194	
		W204	C 250 CDI (204.003)	OM 651.911	2143	4	4	2008	2014	DG-194	
		W204	C 320 CDI (204.022)	OM 642.960	2987	6	4	2007	2014	DG-194	
		W204	C 350 CDI (204.022)	OM 642.960	2987	6	4	2009	2014	DG-194	
	E-CLASS		S124	E 250 TD (124.186)	OM 605.911	2497	5	4	1993	1996	DG-106, DG-119
			S124	E 250 Turbo D	OM 602.962	2497	5	2	1993	1996	DG-010
		S124	E 300 T 4-matic (124.393)	OM 603.963	2996	6	2	1993	1996	DG-010	
		S124	E 300 T Turbo-D (124.193)	OM 603.960	2996	6	2	1993	1996	DG-010	
		S124	E 300 TD (124.191)	OM 606.910	2996	6	4	1993	1996	DG-106, DG-119	
		S210	E 220 T CDI (210.206)	OM 611.961	2151	4	4	1998	1999	DG-117	
		S210	E 220 T CDI (210.206)	OM 611.961	2148	4	4	1999	2003	DG-117	
		S210	E 250 T D (210.210)	OM 605.912	2497	5	4	1996	1999	DG-106	
		S210	E 250 T Turbo-D (210.215)	OM 605.962	2497	5	4	1997	1999	DG-106	
		S210	E 270 T CDI (210.216)	OM 612.961	2685	5	4	1999	2003	DG-117	
		S210	E 290 T Turbo-D (210.217)	OM 602.982	2874	5	2	1996	1999	DG-110, DG-117	
		S210	E 300 T Turbo-D (210.225)	OM 606.962	2996	6	4	1996	1999	DG-106, DG-119	
		S210	E 320 T CDI (210.226)	OM 613.961	3226	6	4	1999	2003	DG-117	
		S211	E 280 T CDI (211.220)	OM 642.920	2987	6	4	2005	2009	DG-194	
		W124	E 300 D (124.131)	OM 606.910	2996	6	4	1993	1995	DG-106, DG-119	
		W124	E 300 Turbo-D (124.133)	OM 603.960	2996	6	2	1993	1995	DG-010	

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MERCEDES (CONT)										
E-CLASS		W210	E 270 CDI (210.016)	OM 612.961	2685	5	4	1999	2002	DG-117
		W210	E 300 D (210.020)	OM 606.912	2996	6	4	1995	1997	DG-106, DG-119
		W210	E 300 Turbo-D (210.025)	OM 606.962	2996	6	4	1996	1999	DG-106, DG-119
		W211	E 270 CDI (211.016)	OM 647.961	2685	5	4	2002	2008	DG-117
		W211	E 280 CDI (211.020)	OM 642.920	2987	6	4	2005	2008	DG-194
		W211	E 280 CDI (211.023)	OM 648.961	3222	6	4	2004	2008	DG-117
GL-CLASS		X164	GL 320 CDI 4-matic (164.822)	OM 642.940	2987	6	4	2006	2009	DG-194
		X164	GL 350 CDI 4-matic (164.822)	OM 642.940	2987	6	4	2009		DG-194
		X164	GL 450 CDI 4-matic (164.828)	OM 629.912	3996	8	4	2009		DG-194
KOMBI		S123	240 T D (123.183)	OM 616.912	2399	4	2	1979	1985	DG-001
		S123	300 T D (123.190)	OM 617.912	2998	5	2	1977	1985	DG-001
		S123	300 T Turbo-D (123.193)	OM 617.952	2998	5	2	1980	1985	DG-001
		S124	200 T D (124.180)	OM 601.912	1997	4	2	1985	1991	DG-001, DG-010
		S124	250 T D (124.185)	OM 602.912	2497	5	2	1985	1993	DG-001, DG-010
		S124	250 TD Turbo (124.188)	OM 602.962	2497	5	2	1988	1993	DG-001, DG-010
		S124	300 T 4-matic (124.393)	OM 603.963	2996	6	2	1986	1989	DG-001, DG-010
		S124	300 T 4-matic (124.393)	OM 603.960	2996	6	2	1989	1993	DG-010
		S124	300 T D (124.190)	OM 603.912	2996	6	2	1986	1993	DG-001, DG-010
		S124	300 T Turbo-D	OM 603.960, OM 603.963	2996	6	2	1986	1989	DG-001, DG-010
		S124	300 T Turbo-D (124.193)	OM 603.960	2996	6	2	1989	1993	DG-010
M-CLASS		W163	ML 270 CDI (163.113)	OM 612.963	2685	5	4	1999	2005	DG-117
		W164	ML 280 CDI (164.120)	OM 642.940	2987	6	4	2005	2009	DG-194
		W164	ML 300 CDI 4-matic (164.120)	OM 642.940	2987	6	4	2009	2011	DG-194
		W164	ML 320 CDI 4-matic (164.122)	OM 642.940	2987	6	4	2005	2009	DG-194
		W164	ML 350 CDI 4-matic (164.122)	OM 642.940	2987	6	4	2009	2011	DG-194
R-CLASS		W251, V251	R 280 CDI	OM 642.950, OM 642.872, OM 642.870	2987	6	4	2006		DG-194
		W251, V251	R 280 CDI 4-matic (251.020)	OM 642.950	2987	6	4	2006		DG-194
		W251, V251	R 300 CDI	OM 642.870, OM 642.950, OM 642.872	2987	6	4	2009		DG-194
		W251, V251	R 300 CDI 4-matic (251.020)	OM 642.950	2987	6	4	2009		DG-194
		W251, V251	R 320 CDI 4-matic	OM 642.950	2987	6	4	2006		DG-194
		W251, V251	R 350 CDI 4-matic	OM 642.870, OM 642.950	2987	6	4	2006		DG-194
		W251, V251	R 350 CDI 4-matic	OM 642.872	2987	6	4	2010		DG-194
S-CLASS		W220	S 320 CDI (220.026, 220.126)	OM 613.960	3222	6	4	1999	2002	DG-117
		W221	S 320 CDI (221.022, 221.122)	OM 642.930	2987	6	4	2005	2009	DG-194
		W221	S 350 CDI	OM 642.930	2987	6	4	2009	2013	DG-194
SEDAN (W123)		W123	240 D (123.123)	OM 616.912	2399	4	2	1979	1985	DG-001
		W123	300 D (123.130)	OM 617.912	2998	5	2	1976	1985	DG-001
SEDAN (W124)		W124	250 D (124.125)	OM 602.912	2497	5	2	1985	1993	DG-001, DG-010
		W124	250 Turbo-D (124.128)	OM 602.962	2497	5	2	1988	1993	DG-010
		W124	300 D (124.130)	OM 603.912	2996	6	2	1984	1993	DG-001, DG-010
		W124	300 D 4-matic (124.330)	OM 603.913	2996	6	2	1989	1993	DG-010
SPRINTER	3, 5-t	906	309 CDI	OM 646.984	2148	4	4	2006	2009	DG-117
	3, 5-t	906	311 CDI	OM 646.985	2148	4	4	2006	2009	DG-117
	3, 5-t	906	313 CDI	OM 646.986	2148	4	4	2006		DG-117

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MERCEDES (CONT)										
SPRINTER	3, 5-t	906	313 CDI	OM 651.955, OM 651.956	2143	4	4	2009		DG-117
	3, 5-t	906	315 CDI	OM 646.986, OM 646.989, OM 646.990	2148	4	4	2006	2009	DG-117
	3, 5-t	906	315 CDI	OM 646.986, OM 646.990, OM 646.989	2148	4	4	2006	2009	DG-117
	3, 5-t	906	318 CDI	OM 642.896, OM 642.992, OM 642.993	2987	6	4	2006	2009	DG-194
	3, 5-t	906	319 CDI / BlueTEC	OM 642.896, OM 642.898, OM 642.992	2987	6	4	2009		DG-194
	3, 5-t	906	319 CDI / BlueTEC	OM 642.898, OM 642.992, OM 642.896	2987	6	4	2009		DG-194
	3, 5-t	906	319 CDI / BlueTEC 4x4	OM 642.896, OM 642.898, OM 642.992	2987	6	4	2009		DG-194
	3, 5-t	906	319 CDI / BlueTEC 4x4	OM 642.898, OM 642.896, OM 642.992	2987	6	4	2009		DG-194
	3-t	906	213 CDI (906.611, 906.613)	OM 646.986	2148	4	4	2006	2009	DG-117
	3-t	906	215 CDI (906.611, 906.613)	OM 646.990, OM 646.989	2148	4	4	2006	2009	DG-117
	3-t	906	219 CDI / BlueTEC	OM 642.896, OM 642.992	2987	6	4	2009	2016	DG-194
	3-t	906	219 CDI / BlueTEC	OM 642.992, OM 642.896	2987	6	4	2009		DG-194
	4, 6-t	906	419 CDI	OM 642.896, OM 642.898, OM 642.992	2987	6	4	2009		DG-194
	4, 6-t	906	419 CDI	OM 642.992	2987	6	4	2009		DG-194
	4-t	904	410 D	OM 602.980	2874	5	2	1996	2006	DG-010, DG-110
	4-t	904	411 CDI	OM 611.981	2148	4	4	2000	2006	DG-117
	4-t	904	412 D	OM 602.980	2874	5	2	1996	2006	DG-001, DG-110
	4-t	904	413 CDI	OM 611.981	2148	4	4	2000	2006	DG-117
	4-t	904	416 CDI	OM 612.981	2685	5	4	2000	2006	DG-117
	5-t	906	511 CDI	OM 646.985	2148	4	4	2006	2009	DG-117
	5-t	906	513 CDI	OM 646.986	2148	4	4	2006		DG-117
	5-t	906	515 CDI	OM 646.989, OM 646.990	2148	4	4	2006	2009	DG-117
	5-t	906	515 CDI	OM 646.990, OM 646.986, OM 646.989	2148	4	4	2006	2009	DG-117
	5-t	906	515 CDI 4x4	OM 646.990, OM 646.989	2148	4	4	2006	2009	DG-117
	5-t	906	518 CDI	OM 642.896, OM 642.992, OM 642.993	2987	6	4	2006	2009	DG-194
	5-t	906	518 CDI	OM 642.992, OM 642.993, OM 642.896	2987	6	4	2006	2009	DG-194
	5-t	906	519 CDI / BlueTEC	OM 642.898, OM 642.992, OM 642.896	2987	6	4	2009		DG-194
SPRINTER 2-t		901, 902	208 CDI	OM 611.987	2148	4	4	2000	2006	DG-117
SPRINTER 3-t		903	308 CDI	OM 611.987	2148	4	4	2000	2006	DG-117

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MERCEDES (CONT)										
SPRINTER 3-t		903	308 D 2.3	OM 601.943	2299	4	2	1995	2000	DG-010
		903	310 D 2.9	OM 602.980	2874	5	2	1995	2000	DG-110
		903	311 CDI	OM 611.981	2148	4	4	2000	2006	DG-117
		903	311 CDI 4x4	OM 611.981	2148	4	4	2002	2006	DG-117
		903	312 D 2.9	OM 602.980	2874	5	2	1995	2000	DG-001, DG-110
		903	312 D 2.9 4x4	OM 602.980	2874	5	2	1997	2002	DG-001, DG-110
SPRINTER 3-t		903	313 CDI	OM 611.981	2148	4	4	2000	2006	DG-117
		903	313 CDI 4x4	OM 611.981	2148	4	4	2002	2006	DG-117
		903	316 CDI	OM 612.981	2685	5	4	2000	2006	DG-117
VIANO		W639	CDI 2.2	OM 646.982, OM 646.980	2148	4	4	2003		DG-117
		W639	CDI 3.0	OM 642.990	2987	6	4	2005		DG-194
VITO		638	108 CDI 2.2 (638.094)	OM 611A (60 KW CDI)	2151	4	4	1999	2003	DG-117
		638	108 D 2.3 (638.064, 638.068)	OM 601.942	2299	4	2	1997	2003	DG-010
		638	110 D 2.3 (638.074, 638.078)	OM 601.970	2299	4	2	1997	2003	DG-010
		638	112 CDI 2.2 (638.094)	OM 611.980	2151	4	4	1999	2003	DG-117
		W639	111 CDI (639.701)	OM 646.980	2148	4	4	2007		DG-117
		W639	115 CDI	OM 646.982, OM 646.980	2148	4	4	2003		DG-117
		W639	120 CDI	OM 642.990	2987	6	4	2006		DG-194
		W639	122 CDI	OM 642.890	2987	6	4	2010		DG-194
VITO / MIXTO		W639	109 CDI	OM 646.983	2148	4	4	2003		DG-117
		W639	109 CDI	OM 646.980, OM 646.981	2148	4	4	2006		DG-117
		W639	111 CDI	OM 646.982, OM 646.980	2148	4	4	2007		DG-117
		W639	115 CDI	OM 646.982, OM 646.980	2148	4	4	2003		DG-117
		W639	115 CDI 4x4	OM 646.982	2148	4	4	2006		DG-117
		W639	120 CDI	OM 642.990	2987	6	4	2006		DG-194
		W639	122 CDI	OM 642.890	2987	6	4	2010		DG-194
MG										
MG ZR			2.0 TD		1994	4	2	2001	2005	DG-101
MG ZS			2.0 TD		1994	4	2	2004	2005	DG-101
MG ZT			2.0 CDTi		1951	4	4	2002	2005	DG-145
MINI										
MINI		R56	Cooper D	9HZ (DV6TED4), W16 D16	1560	4	4	2006	2010	DG-180
MINI		R56	Cooper D	N47 C16 A	1598	4	4	2010	2013	DG-180
MINI		R56	One D	N47 C16 A	1598	4	4	2010	2013	DG-180
MITSUBISHI										
GALANT	VI	EA_	2.0 TDI (EA6W)	4D68 T	1998	4	2	1996	2003	DG-174
L 200 EXPRESS		MA, MB, MC, MD	2.3 D	4D55	2346	4	2	1982	1986	DG-198
L 300 STARWAGON	III	P05W, P15W, P25W	2.5 D (P05W, P15W, P25W)	4D56	2477	4	2	1986	2004	DG-174, DG-198
L300 EXPRESS	III	SF, SG, SH, SJ, WA	2.5 D (P05V, P05W, P15V)	4D56 (8V)	2477	4	2	1986	2006	DG-174, DG-198
PAJERO	I	NA, NB, NC, ND, NE, NG	2.3 D 4x4 (L049GW, L044GV)	4D55	2346	4	2	1983	1986	DG-198
	I	NA, NB, NC, ND, NE, NG	2.5 TD 4WD	4D56 T	2477	4	2	1986	1991	DG-198
	II	NH, NJ, NK, NL	2.5 TD 4WD (V24C, V24W)	4D56 TD	2477	4	2	1990	1999	DG-174, DG-198

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MODEL	GENERATION	CHASSIS	SERIES	ENGINE CODE	CC	CYLINDERS	VALVE	START	FINISH	
MITSUBISHI (CONT)										
PAJERO	II	NH, NJ, NK, NL	2.8 TD 4x4 (V46W, V26W)	4M40-T	2835	4	2	1993	1999	DG-643
	III	NM	2.8 TD 4WD (V60/V70)	4M40-T	2835	4	2	2000	2002	DG-643
	III	NM, NP	2.5 TDi (V64W, V74W)	4D56 T	2477	4	2	2000	2006	DG-174
	III	NM, NP	3.2 DI-D (V68W, V78W)	4M41	3200	4	4	2000	2006	DG-187
	IV	NS, NT, NW, NX	3.2 DI-D 4x4 (V88W, V98W)	4M41	3200	4	4	2006		DG-187
TRITON		K7_T, K6_T, MK	2.5 TD 4WD (K74T)	4D56 TD	2477	4	2	1996	2007	DG-174
TRITON		ME, MF, MG, MH, MJ	2.5 D (K14T)	4D56 (8V)	2477	4	2	1986	1996	DG-198
TRITON		ME, MF, MG, MH, MJ	2.5 TD (K14T)	4D56 T	2477	4	2	1990	1996	DG-198
		MK	2.8 TD 4WD	4M40-T	2835	4	2	2003	2006	DG-643
NISSAN										
720		720	2.2 D	SD22	2164	4	2	1982	1984	DG-157
		720	2.3 D	SD23	2289	4	2	1983	1986	DG-157
		720	2.5 D	SD25	2488	4	2	1983	1986	DG-157
ALMERA TINO		V10	2.2 dCi	YD22DDTi	2184	4	4	2000		DG-197
		V10	2.2 dCi	YD22DDT	2184	4	4	2003		DG-197
DUALIS	I	J10, JJ10	1.5 dCi	K9K 282, K9K 292, K9K 430	1461	4	2	2007	2013	DG-005
	I	J10, JJ10	2.0 dCi	M9R, M1D	1995	4	4	2007	2013	DG-005
ELGRAND		E50	3.2 D	QD32ETi	3153	4	2	1995	2001	DG-137
KUBISTAR		X76	1.5 dCi	K9K 276, 704, 710, 714, 716, 700, 722	1461	4	2	2003	2009	DG-005
KUBISTAR		X80	1.5 dCi	K9K 704, 722	1461	4	2	2003		DG-005
LAUREL		JC32	2.8 D	RD28	2826	6	2	1985	1989	DG-644
NAVARA		D21	2.5 D	SD25	2488	4	2	1986	1998	DG-157
		D21	2.5 D	TD25	2494	4	2	1988	1992	DG-198
		D21	2.7 D	TD27	2663	4	2	1987	1997	DG-198
		D22	2.5 D	YD25DDTi	2488	4	4	2001		DG-197
		D22	2.7 D	TD27	2664	4	2	1998	2005	DG-198
		D22	2.7 TD	TD27T	2664	4	2	1997	2001	DG-198, DG-137
		D22	3.0 TD	ZD30	2953	4	4	2001	2008	DG-605
		D22	3.2 D	QD32	3153	4	2	1998	2005	DG-198, DG-644, DG-137, DG-626
		D40	2.5 dCi	YD25DDTi	2488	4	4	2005		DG-197
PATHFINDER	I	WD21	2.7 TD 4WD	TD27T	2664	4	2	1989	1996	DG-137
	III	R51	2.5 dCi	YD25DDTi	2488	4	4	2005	2013	DG-197
PATROL	III/1	MQ, MK, GQ	3.3 D	SD33	3246	6	2	1979	1988	DG-157
	III/1	MQ, MK, GQ	3.3 TD	SD33T	3246	6	2	1984	1987	DG-157
	III/1	MQ, MK, GR, GQ	4.2 D (Y60)	TD42	4169	6	2	1988	1997	DG-198
	IV	Y61, GR_, GU	2.8 TDiC (Y61)	RD28Ti	2826	6	2	1997	2000	DG-643
	IV	Y61, GR_, GU	3.0 DTi	ZD30DDTi	2953	4	4	2000		DG-605
	IV	Y61, GR_, GU	4.2 D	TD42	4169	6	2	1998	2012	DG-198, DG-137
	IV	Y61, GR_, GU	4.2 D	TD42T	4169	6	2	1999	2012	DG-198, DG-137
SUNNY	III	Y10	1.7 D	CD17	1681	4	2	1990	2000	DG-644
	III	Y10	2.0 D	CD20	1974	4	2	1991	2000	DG-642
TERRANO II		R20	2.7 TD 4WD	TD27T	2664	4	2	1993	2002	DG-137
		R20	2.7 TDi	TD27Ti	2664	4	2	1996	2007	DG-137, DG-626, DG-198
URVAN		E23	2.3 D	SD23	2289	4	2	1982	1986	DG-157
		E24	2.7 D	TD27	2664	4	2	1987	1993	DG-198
X-TRAIL		T31	2.0 dCi	M9R	1995	4	4	2008	2014	DG-005

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MODEL	GENERATION	CHASSIS	SERIES	ENGINE CODE	CC	CYLINDERS	VALVE	START	FINISH	
OPEL										
INSIGNIA			2.0 CDTi	A 20 DTH	1956	4	4	2012	2013	DG-608
MONTEREY	A	UBS_	3.1 TD (UBS69_)	4 JG2TC	3059	4	2	1991	1998	DG-104
	B		3.0 DTi	4 JX1	2999	4	4	1998	1999	DG-186
PEUGEOT										
205			1.7 Diesel	161A (XUD7)	1769	4	2	1994	1997	DG-001
207		WA_, WC_	1.6 HDi	9HV Y Z (DV6TED4), 9HX (DV6ATED4)	1560	4	4	2006		DG-180, DG-189
306		7A, 7B, 7C, N3, N5	2.0 HDi 90	RHY (DW10TD)	1997	4	2	1997	2001	DG-116
		7A, 7C, N3, N5	1.9 D	DJZ (XUD9Y) DJY (XUD9A)	1905	4	2	1993	2001	DG-001
		7A, 7C, N3, N5	1.9 DT	DHY (XUD9TE), D8A (XUD9TE)	1905	4	2	1993	2001	DG-001
		7B, N3, N5	1.9 D	DHY (XUD9TE), XUD9TE	1905	4	2	1994	1997	DG-001
		7B, N3, N5	1.9 SRDT	DHY (XUD9TE), D8A (XUD9TE)	1905	4	2	1994	2001	DG-001
307		3A/C	1.6 HDi	9H_ (DV6TED4, DV6ATED4, DV6ATED4)	1560	4	4	2005		DG-113, DG-180
		3A/C	1.6 HDi 110	9HY (DV6TED4), 9HZ (DV6TED4)	1560	4	4	2004		DG-113, DG-180
		3A/C	2.0 HDi 110	RHS (DW10ATED)	1997	4	2	2000		DG-116
		3A/C	2.0 HDi 135	RHR (DW10BTED4)	1997	4	4	2003		DG-116, DG-181
		3E	1.6 HDi 110	9HZ (DV6TED4), 9HY (DV6TED4)	1560	4	4	2004		DG-113, DG-180
		3E	2.0 HDi 135	RHR (DW10BTED4)	1997	4	4	2004		DG-116, DG-181
		3E	2.0 HDi 90	RHY (DW10TD)	1997	4	2	2002		DG-116
		3H	1.6 HDi 110	9HZ (DV6TED4), 9HY (DV6TED4)	1560	4	4	2004		DG-113, DG-180
		3H	2.0 HDi 135	RHR (DW10BTED4)	1997	4	4	2004		DG-116, DG-181
		3H	2.0 HDi 90	RHY (DW10TD)	1997	4	2	2002		DG-116
308		T7	1.6 HDi	9HZ (DV6TED4)	1560	4	4	2007		DG-180, DG-189
		T7	1.6 HDi	9HR (DV6C)	1560	4	2	2009		DG-189, DG-603
		T7	2.0 HDi	RHR (DW10BTED4)	1997	4	4	2007		DG-181
		T7	2.0 HDi	RHH (DW10CTED4)	1997	4	4	2009		DG-181
		T7	2.0 HDi	RHE (DW10CTED4)	1997	4	4	2011		DG-181
405	I	15B	1.8 Turbo Diesel	AJZ (XUD7TEY), A8A (XUD7TE)	1769	4	2	1988	1992	DG-001
	I	15B	1.9 Diesel	D9B (XUD9A) DJZ (XUD9Y)	1905	4	2	1988	1992	DG-001
	I	15E	1.8 TD	AJZ (XUD7TEY), A8A (XUD7TE)	1769	4	2	1988	1992	DG-001
	I	15E	1.9 D	D9B (XUD9A), DJY (XUD9A), DJZ (XUD9Y)	1905	4	2	1988	1992	DG-001
	II	4B	1.9 D	DJZ (XUD9Y) DJY (XUD9A)	1905	4	2	1992	1995	DG-001
	II	4B	1.9 TD	DHY (XUD9TE)	1905	4	2	1992	1995	DG-001
406		8B	1.9 TD	DHX (XUD9TE)	1905	4	2	1996	2004	DG-001
		8B	2.0 HDi 110	RHZ (DW10ATED), RHS (DW10ATED)	1997	4	2	1999	2004	DG-116
		8B	2.0 HDi 90	RHY (DW10TD)	1997	4	2	1999	2004	DG-116
		8B/E/F	2.0 HDi 110	RHZ (DW10ATED)	1997	4	2	1998	2004	DG-116

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PEUGEOT (CONT)										
406		8B/E/F	2.1 TD 12V	P8C (XUD11BTE)	2088	4	3	1996	2004	DG-001
407		6C_ 6D_ 6E_	2.7 HDi	UHZ (DT17)	2720	6	4	2005		DG-140
		6D_	2.0 HDi	RHF (DW10BTED4)	1997	4	4	2008		DG-181
		6D_ 6E_	2.0 HDi 135	RHR (DW10BTED4)	1997	4	4	2004		DG-181
504		A_ , M_	2.3 D (A40, A45)	134 (XD2)	2304	4	2	1975	1983	DG-001
505		551A	2.3 Turbo Diesel	147 (XD2S)	2304	4	2	1980	1986	DG-001
		551A	2.5 Diesel	155 (XD3)	2498	4	2	1981	1993	DG-001
505		551A	2.5 Turbo Diesel	XD3T	2498	4	2	1985	1996	DG-001
508			2.0 HDi	RHH (DW10CTED4)	1997	4	4	2010		DG-603
3008		T8	1.6 HDi	9HZ (DV6TED4)	1560	4	4	2009		DG-180, DG-189
		T8	1.6 HDi	9HR (DV6C)	1560	4	2	2010		DG-603
		T8	2.0 HDi	RHH (DW10CTED4)	1997	4	4	2009		DG-603
4007		GP_	2.2 HDi	4HN (DW12MTED4), 4HK (DW12MTED4)	2179	4	4	2007		DG-614
BIPPER		AA_	1.3 HDi 75	199 A9.000, FHZ (F13DTE5)	1248	4	4	2010		DG-171
		AA_	1.4 HDi	8HS (DV4TED)	1398	4	2	2008		DG-180
BOXER			2.2 HDi 130	4HH (P22DTE)	2198	4	4	2011		DG-130
EXPERT		VF3__	2.0 HDi 120	RHK (DW10UTED4)	1997	4	4	2007		DG-181, DG-116
		VF3__	2.0 HDi 140	RHR (DW10BTED4)	1997	4	4	2007		DG-181
PARTNER		5	1.6 HDi 75	9HW (DV6BTED4)	1560	4	4	2006	2008	DG-113, DG-180
		5	1.6 HDi 90	9HX (DV6ATED4)	1560	4	4	2006	2015	DG-113, DG-180
		5	1.8 D	A9A (XUD7)	1769	4	2	1996	2002	DG-001
		5	1.9 D	DJY (XUD9A)	1905	4	2	1996	2002	DG-001
		5	1.9 D	WJY (DW8B), WJZ (DW8)	1868	4	2	1996	2015	DG-003
		5	1.9 D 4x4	WJY (DW8B)	1868	4	2	2004	2007	DG-003
		5	2.0 HDi	RHY (DW10TD)	1997	4	2	2000	2008	DG-116
			1.6 HDi 16V	9H_ (DV6AUTED4, DV6ATED4, DV6TED4BU)	1560	4	4	2008		DG-180, DG-189
RCZ			2.0 HDi	RHH (DW10CTED4)	1997	4	4	2010		DG-603
PORSCHE										
CAYENNE		92A	3.0 Diesel	MCN.RB, M 05.9E	2967	6	4	2010		DG-193
		92A	3.0 Diesel	MCR.C, MCR.CA	2967	6	4	2011		DG-193
		9PA	3.0 TDI	M 05.9D	2967	6	4	2009	2010	DG-193
RENAULT										
19	II	S53_	1.9 dT	F8Q 740	1870	4	2	1992	1995	DG-012
21		K48_	1.9 D	F8Q 710	1870	4	2	1986	1994	DG-001
		K48_	2.1 D	J8S 704	2068	4	2	1986	1992	DG-001
		K48_	2.1 D	J8S 600, J8S 740	2068	4	2	1989	1992	DG-001
		K48_	2.1 D	J8S 784	2068	4	2	1992	1995	DG-001
		K48_	2.1 Turbo-D	J8S 788, J8S 786, J8S 714	2068	4	2	1986	1993	DG-001
25		B29_	2.1 Diesel (B296)	J8S 706	2068	4	2	1984	1989	DG-001
		B29_	2.1 Turbo-D FWD	J8S 708, J8S 738	2068	4	2	1984	1992	DG-001
CLIO		KR0/1_	1.5 dCi	K9K 714 764 766 768 772 774	1461	4	2	2008		DG-005
KANGOO		KC0/1_	1.5 dCi	K9K 718	1461	4	2	2005		DG-005

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MODEL	GENERATION	CHASSIS	SERIES	ENGINE CODE	CC	CYLINDERS	VALVE	START	FINISH	
RENAULT (CONT)										
KANGOO		KW0/1_	1.5 dCi (KW0B)	K9K 802	1461	4	2	2008		DG-005
		X76	1.5 dCi (FC1G)	K9K 718	1461	4	2	2005		DG-005
LAGUNA	II	BG0/1_	1.9 dCi (BG0R)	F9Q 754	1870	4	2	2001		DG-005
	II	BG0/1_	2.2 dCi	G9T 706, G9T 707, G9T 605, G9T 600	2188	4	4	2005		DG-005, DG-126
MASCOTT			90		2800	4	2	1999	2001	DG-004
			90.35		2800	4	2	1999	2001	DG-004
			130.35		2800	4	2	1999	2004	DG-001
MASCOTT			160.35 (A0_100013)		2953	4	4	2004	2010	DG-605
MASTER	II	X70	2.5 dCi 100 (FD0U, FD0V)	G9U 754	2463	4	4	2003	2011	DG-126
	II	X70	2.5 dCi 120	G9U 720 750 724 754	2463	4	4	2001		DG-126
MEGANE	II	KM0/1_	1.5 dCi	K9K 722 724 728 729 732 734	1461	4	2	2003	2009	DG-005
	II	X84	1.9 dCi	F9Q 800 803 804 808 816 818	1870	4	2	2003	2009	DG-005
MODUS		F/JPO_	1.5 dCi	K9K 750 752 760 762 764 766 768 772	1461	4	2	2004		DG-005
SCENIC	II	J84	1.9 dCi (JM14)	F9Q 816, F9Q J 803, F9Q 804, F9Q 818	1870	4	2	2005	2009	DG-005
TRAFIC		FL	1.9 dCi 100 (FLOC)	F9Q 760	1870	4	2	2001	2007	DG-005
		FL	1.9 dCi 80 (FLOB)	F9Q 762, F9Q 760	1870	4	2	2001		DG-005
		FL	2.0 dCi 115 (FL01, FL0U)	M9R 692, M9R 786, M9R 782, M9R 780	1995	4	4	2007		DG-631
		FL	2.5 dCi 135 (FL0D)	G9U 730	2464	4	4	2003		DG-126
		FL	2.5 dCi 145 (FL0J)	G9U 630	2464	4	4	2006		DG-126
ROVER										
75		RJ	2.0 CDTi	204D2	1951	4	4	2003	2005	DG-145
SAAB										
9-3		YS3F	1.9 TiD	Z 19 DTH	1910	4	4	2004	2015	DG-170
		YS3F	1.9 TTiD	Z 19 DTR, A 19 DTR	1910	4	4	2007	2015	DG-608
9-5		YS3E	1.9 TiD	Z 19 DTH	1910	4	4	2006	2009	DG-170
		YS3F	1.9 TiD	Z 19 DTH	1910	4	4	2007	2015	DG-170
		YS3F	1.9 TTiD	Z 19 DTR, A 19 DTR	1910	4	4	2007	2015	DG-608, DG-170
		YS3G	2.0 TiD	A 20 DTH	1956	4	4	2010	2012	DG-608
SEAT										
ALHAMBRA		710, 711	2.0 TDI	CFFA, CFFB, CFGB, CFFE, CUVA	1968	4	4	2010		DG-193
		7V8, 7V9	1.9 TDI	AVG, AFN	1896	4	2	1996	2000	DG-005
		7V8, 7V9	1.9 TDI	ANU, AHU, 1Z	1896	4	2	1996	2010	DG-005, DG-109
		7V8, 7V9	1.9 TDI	AUY, BVK	1896	4	2	2000	2010	DG-005, DG-109
		7V8, 7V9	1.9 TDI	ASZ, BTB	1896	4	2	2002	2008	DG-109
EXEO		3R2, 3R5	2.0 TDI	CAGA, CJCA, CJCC, CAGC, CGLB, CAHA	1968	4	4	2008		DG-193
LEON		5F1	1.6 TDI	CLHA	1598	4	4	2012		DG-193
SKODA										
OCTAVIA	II	1Z5	1.6 TDI	CAYC	1598	4	4	2009	2013	DG-193
	II	1Z5	1.9 TDI	BJB, BKC, BXE, BLS	1896	4	2	2004	2010	DG-177
	II	1Z5	2.0 TDI	BMM	1968	4	2	2005	2010	DG-177
	II	1Z5	2.0 TDI 16V	BKD, CLCB, CFHC	1968	4	4	2004	2013	DG-177, DG-190, DG-193
	II	1Z5	2.0 TDI 16V 4x4	CFHC	1968	4	4	2010	2013	DG-193

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SKODA (CONT)										
OCTAVIA	II	1Z5	2.0 TDI RS	BMN, CEGA	1968	4	4	2006	2013	DG-193
	III	500000	2.0 TDI	CKFC, CUPA, CUNA	1968	4	4	2012		DG-193
	III	NE (5E3, 5E5)	2.0 TDI	CRMB, CKFC	1968	4	4	2012		DG-193
		1Z3	1.6 TDI	CAYC	1598	4	4	2009	2013	DG-193
		1Z3	1.9 TDI	BJB, BKC, BXE, BLS	1896	4	2	2004	2010	DG-177
		1Z3	2.0 TDI	BMM	1968	4	2	2005	2010	DG-177
		1Z3	2.0 TDI 16V	BKD, CLCB, CFHC	1968	4	4	2004	2013	DG-177, DG-190, DG-193
		1Z3	2.0 TDI RS	BMN, CEGA	1968	4	4	2006	2013	DG-193
ROOMSTER		5J	1.6 TDI	CAYC	1598	4	4	2010	2015	DG-193
		5J	1.9 TDI	BSW, BLS	1896	4	2	2006	2010	DG-109
SUPERB	II	3T4	2.0 TDI	CB8B, CFGB	1968	4	4	2008	2015	DG-193
	II	3T4	2.0 TDI 16V	CLJA, BKD, CFFB	1968	4	4	2009	2015	DG-190, DG-193
	II	3T5	2.0 TDI	CB8B, CFGB	1968	4	4	2009	2015	DG-193
	II	3T5	2.0 TDI 16V	BKD, CLJA, CFFB	1968	4	4	2009	2015	DG-190, DG-193
YETI		5L	2.0 TDI 4x4	CLCB, CBDB, CFHC	1968	4	4	2009		DG-193
SMART										
CABRIO		450	0.8 CDI		799	3	2	2001	2004	DG-184
CITY-COUPE		450	0.8 CDI		799	3	2	1999	2004	DG-184
FORFOUR		454	1.5 CDI (454.000)(454.001)		1493	3	4	2004	2006	DG-606
FORTWO		450	0.8 CDI		799	3	2	2004	2007	DG-184
		451	0.8 CDI (451.300)(451.400)		799	3	2	2007		DG-184
SSANGYONG										
ACTYON	I		200 Xdi	D20DT	1998	4	4	2007	2011	DG-188
KORANDO		KJ	2.3 D (KJ)		2299	4	2	1996	1998	DG-010
		KJ	2.9 D		2874	5	2	1996	2000	DG-010
		KJ	2.9 TD		2874	5	2	1998	2007	DG-010
		KJ	2.9 TD		2874	5	2	1998	2007	DG-010
KYRON			2.0 Xdi	D20DT	1998	4	4	2005	2012	DG-188
			2.7 Xdi	D27DT	2696	5	4	2005	2012	DG-188
MUSSO		FJ	2.3 D		2299	4	2	1995	1999	DG-010
		FJ	2.9 D	MB-OM 662	2874	5	2	1996	1998	DG-010
		FJ	2.9 TD		2874	5	2	1998	2007	DG-010
MUSSO SPORTS			2.9 D		2874	5	2	2004	2007	DG-010
REXTON		GAB_	2.7 Xdi	D27DT	2696	5	4	2004		DG-188
		GAB_	2.9 TD		2874	5	2	2002	2005	DG-010
RODIUS			2.7 Xdi		2696	5	4	2005		DG-188
STAVIC			2.7 270 sXDi	D27DT	2696	5	4	2005		DG-188
SUBARU										
FORESTER		SH, SHH	2.0 D AWD	EE20Z	1998	4	4	2008	2013	DG-615
SUZUKI										
GRAND VITARA	II	JT, TE, TD	1.9 DDiS 4x4 (TD44, J_419)	F9QB	1870	4	2	2005	2015	DG-005
TOYOTA										
4 RUNNER		_N1_	2.4 D	2L-T	2446	4	2	1989	1995	DG-648
		N1	3.0 Turbo-D (KZN130_)	1KZ-T	2982	4	2	1993	1996	DG-648
		LN130	2.8 D (LN130)	3L	2779	4	2	1989	1996	DG-648
		LN60, LN61	2.4 D (LN60, LN61)	2L	2446	4	2	1984	1988	DG-647, DG-648
		LN61	2.8 D (LN61)	3L	2779	4	2	1988	1989	DG-648

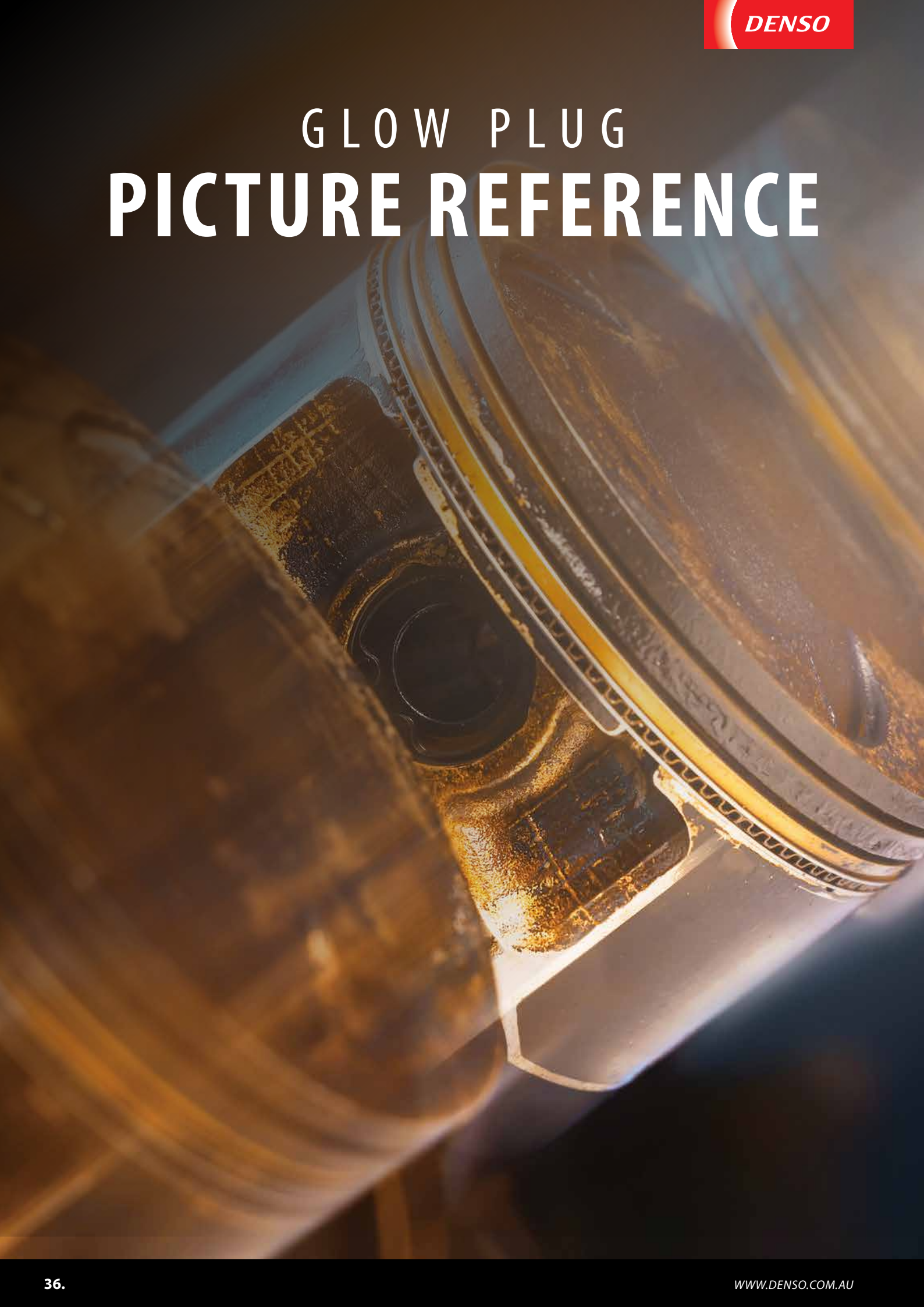
MAKE & MODEL				ENGINE				YEAR		PART NUMBER
MODEL	GENERATION	CHASSIS	SERIES	ENGINE CODE	CC	CYLINDERS	VALVE	START	FINISH	
TOYOTA (CONT)										
AVENSIS		_T22_	2.0 TD (CT220_)	2C-TE	1975	4	2	1997	2003	DG-649
BLIZZARD		_D1_	2.2 D	L	2188	4	2	1982	1983	DG-647
COROLLA	FX	E8B	1.8 D (CE80_)	1C	1839	4	2	1985	1988	DG-649, DG-652
		E15	1.4 D-4D (NDE150_)	1ND-TV	1364	4	2	2007	2012	DG-240
DYNA		_U_, _Y_	2.4 D	2J	2449	4	2	1984	1987	DG-647
DYNA 150		LY_	2.8 D	3L	2779	4	2	1995	1998	DG-648
		LY_	3.4 D	3B	3431	4	2	1988	1995	DG-651
HIACE	I	LH20-30	2.2 D (LH20-30)	L	2173	4	2	1979	1983	DG-647, DG-648, DG-654
	II	H5F	2.4 D 4WD (H5F)	2L	2446	4	2	1987	1988	DG-648
	II	H5G	2.4 D (H5G)	2L	2446	4	2	1984	1989	DG-648, DG-647
	II	LH3_, LH5_, LH7_	2.2 D (LH7_, LH5_, LH3_)	L	2173	4	2	1983	1989	DG-647, DG-648
	II	LH5_, LH6_, LH7_	2.4 D (LH7_, LH6_, LH5_)	2L	2446	4	2	1983	1989	DG-647, DG-648
	III	_H1_	2.4 D	2L	2446	4	2	1987	2004	DG-648
	III	LH12	2.8 D (LH12_)	3L	2779	4	2	1989	2000	DG-648
	III	LH18	3.0 D (LH18_)	5L	2986	4	2	1998	2004	DG-648
	IV	_H1_, _H2_	2.4 D (LH10_, LH11_, LXH12_)	2L	2446	4	2	1999	2006	DG-648
	IV	_H1_, _H2_	2.4 TD (LXH12_, LXH22_)	2L-T	2446	4	2	1995	2006	DG-648
	IV	_H1_, _H2_	2.5 D-4D (KLH12_, KLH22_)	2KD-FTV	2494	4	4	2001	2006	DG-245
	IV	LH1_, LH2_	2.4 D	2L	2446	4	2	1995	2006	DG-648
	IV	LH10_, LH11_	2.4 D (LH10_, LH11_)	2L	2446	4	2	1989	2000	DG-647, DG-648
	IV	LH16_, LH17_	3.0 D (LH17_, LH16_)	5L	2986	4	2	1998	2005	DG-648
	IV	LXH, LH	2.4 D 4WD	2L	2446	4	2	1989	1999	DG-648
	V	KDH200, KDH220	2.5 D-4D (KDH200, KDH220)	2KD-FTV	2494	4	4	2006		DG-245
	V	KDH201, KDH22_	3.0 D	1KD-FTV	2982	4	4	2005		DG-245
HIACE / COMMUTER	V	KDH222	2.5 D-4D (KDH222)	2KD-FTV	2494	4	4	2006	2014	DG-245
	V	KDH223	3.0 D (KDH2_)	1KD-FTV	2982	4	4	2004		DG-245
HIACE SBV	IV	KLH12_, KLH22_	2.5 D-4D (KLH12_, KLH22_)	2KD-FTV	2494	4	4	2001	2006	DG-245
	IV	KLH12_, KLH22_	2.5 D-4D 4WD	2KD-FTV	2494	4	4	2001	2006	DG-245
	IV	LXH12_, LXH22_	2.4 D (LXH12_, LXH22_)	2L	2446	4	2	1995	2006	DG-648
	IV	LXH12_, LXH22_	2.4 TD (LXH12_, LXH22_)	2L-T	2446	4	2	1995	2006	DG-648
	IV	LXH18_, LXH28_	2.4 TD 4WD (LXH18_, LXH28_)	2L-T	2446	4	2	1995	2006	DG-648
HILUX	IV	LN56	2.2 D (LN4, LN5)	L	2188	4	2	1982	1984	DG-647, DG-648
	IV	LN6_	2.4 D 4WD (LN6_)	2L	2446	4	2	1984	1988	DG-647, DG-648
	V	LN_, KZN1_, VZN1_	2.4 D (LN85_)	2L	2446	4	2	1988	1997	DG-648, DG-647
	V	LN106, LN111	2.8 D 4WD	3L	2779	4	2	1988	1997	DG-648
	V	LN56	2.4 D (LN5_)	2L	2446	4	2	1984	1988	DG-647, DG-648
	V	LN85, LN86	2.8 D (LN8_)	3L	2779	4	2	1991	1997	DG-648
	VI	KZN165	3.0 TD (KZN165)	1KZ-TE, 1KZ-T	2982	4	2	1997	2005	DG-245
	VI	LN1_	2.4 TD 4WD	2L-T	2446	4	2	1998	2002	DG-648
	VI	LN147	3.0 D (LN14_)	5L-E	2986	4	2	1997	2005	DG-648
	VI	LN147	3.0 D (LN14_, LN152_)	5L	2986	4	2	1997	2000	DG-648
	VI	LN167, LN172	3.0 D (LN17_, LN16_)	5L	2986	4	2	1997	2000	DG-648
	VI	LN167, LN172	3.0 D 4WD (LN17_, LN16_)	5L-E	2986	4	2	1997	2005	DG-648
	VII	KUN16	3.0 D (KUN16)	1KD-FTV	2982	4	4	2005		DG-245
	VII	KUN16	3.0 D (KUN16_, KUN36_)	1KD-FTV	2982	4	4	2004	2006	DG-245
	VII	KUN26	3.0 D 4WD (KUN26_)	1KD-FTV	2982	4	4	2005		DG-245
	VII	KUN26	3.0 D-4D (KUN26, KUN36_)	1KD-FTV	2982	4	4	2006		DG-245

MAKE & MODEL				ENGINE				YEAR		PART NUMBER
MODEL	GENERATION	CHASSIS	SERIES	ENGINE CODE	CC	CYLINDERS	VALVE	START	FINISH	
TOYOTA (CONT)										
HILUX SURF		KZN_	3.0TDiC 4WD (KZN_)	1KZ-T	2982	4	2	1993	1997	DG-245
		LN_	2.4TD (LN_)	2L-TE, 2L-T	2446	4	2	1988	1998	DG-648
LAND CRUISER		BJ40, BJ43	3.0 D (BJ42_, FJ4_, FJ5_)	B	2977	4	2	1969	1984	DG-001
		BJ42, BJ45, BJ46	3.4 D	3B	3432	4	2	1980	1984	DG-235, DG-651
		BJ70, RJ73	3.4 D (BJ70_V, BJ73_)	3B	3432	4	2	1984	1996	DG-235, DG-651
		HDJ100	4.2TD (HDJ100_)	1HD-FTE	4164	6	4	1998	2007	DG-649, DG-235, DG-650
		HDJ78, HDJ79	4.2TD	1HD-FT	4164	6	4	2001	2007	DG-648, DG-650
LAND CRUISER		HDJ80	4.2TD (HDJ80)	1HD-T	4164	6	2	1990	1997	DG-649, DG-651
		HDJ80	4.2TD (HDJ80_)	1HD-FT	4164	6	4	1995	1997	DG-649, DG-648, DG-651
		HJ45	3.6 D (HJ45_)	H	3576	6	2	1975	1980	DG-235, DG-651
		HJ47	4.0 D (HJ47_)	2H	3980	6	2	1980	1984	DG-649, DG-652, DG-651
		HJ60	4.0 Diesel (HJ60)	2H	3980	6	2	1982	1987	DG-649, DG-652, DG-651
		HJ61	4.0 Turbo-D (HJ61_V)	12HT	3980	6	2	1985	1991	DG-651
		HJ75	4.0 D (HJ75)	2H	3980	6	2	1985	1990	DG-651
		HZJ105	4.2 D (HZJ105)	1H-Z	4164	6	2	1998	2007	DG-649, DG-650
		HZJ75, HZJ79	4.2 D (HZJ7_)	1H-Z	4164	6	2	1990	2007	DG-649, DG-650, DG-651
		HZJ80	4.2 D (HZJ80_)	1H-Z	4164	6	2	1990	1998	DG-649, DG-650, DG-651
		LJ70, LJ73	2.4TD (LJ70_, LJ73_)	2L-T	2446	4	2	1985	1993	DG-648
		PZJ70, PZJ73	3.5 D (PZJ70, PZJ73)	1PZ	3470	5	2	1990	1991	DG-649, DG-651
		VDJ200	4.5 D-4D (VDJ200)	1VD-FTV	4461	8	4	2007		DG-600
		VDJ76, VDJ78, VDJ79	4.5 TD	1VD-FTV	4461	8	4	2007		DG-600
LAND CRUISER PRADO		KDJ120, KDJ125	3.0 D-4D (KDJ120, KDJ125)	1KD-FTV	2982	4	4	2002	2009	DG-245
		KDJ150	3.0 D-4D (KDJ150_)	1KD-FTV	2982	4	4	2009		DG-245
LITEACE		_M3_	2.0 D (CM30LG)	2C	1975	4	2	1988	1992	DG-649, DG-650
		_R2__V	2.0 D (CR27_V)	2C	1974	4	2	1992	1994	DG-649, DG-650
		CM20	1.8 D (CM20)	1C	1839	4	2	1983	1988	DG-652, DG-649
		CM35	1.8 D (CM35_V)	1C	1839	4	2	1983	1992	DG-652, DG-650
		CM36	2.0 D (CM36_V)	2C	1975	4	2	1988	1992	DG-649, DG-650
RAV 4	IV	ALA49	2.2 D4-D 4WD (ALA49)	2AD-FHV, 2AD-FTV	2231	4	4	2012		DG-600
STARLET		_P8_	1.5 D (NP80_)	1N	1453	4	2	1989	1996	DG-648
TARAGO		CR21	2.0 D (CR21)	2C	1974	4	2	1985	1988	DG-652
VAUXHALL										
MONTEREY	Mk II		3.0 DTi	4 JX1	2999	4	4	1998	1999	DG-186
			3.1 TD	4 JG2TC	3059	4	2	1991	1998	DG-104
VOLVO										
C30			1.6 D	D 4164 T	1560	4	4	2006	2012	DG-113, DG-180
			2.0 D	D 4204 T	1998	4	4	2006	2012	DG-181
			D5	D 5244 T	2400	5	4	2006	2012	DG-610
S40	II	MS	2.0 D	D 4204 T	1998	4	4	2004	2010	DG-181
	II	MS	2.4 D5	D 5244 T	2400	5	4	2006	2010	DG-610
S60	II		D3 D4 D5	D 5204 T	1984	5	4	2010	2014	DG-610
S80	II	AS	D5	D 5244 T	2400	5	4	2006		DG-140, DG-610
V50		MW	2.0 D	D 4204 T	1998	4	4	2004	2010	DG-181
		MW	2.4 D5	D 5244 T	2400	5	4	2006	2010	DG-140, DG-610
V60			D3 D4 D5	D 5204 T	1984	5	4	2010		DG-610
XC60		DZ	2.4 D D3 D4 D5	D 5244 T	2400	5	4	2008		DG-610

MAKE & MODEL				ENGINE				YEAR		PART NUMBER
MODEL	GENERATION	CHASSIS	SERIES	ENGINE CODE	CC	CYLINDERS	VALVE	START	FINISH	
XC70	II	BZ	2.4 D4 D5	D 5244 T	2400	5	4	2007	2011	DG-610
VOLVO (CONT)										
XC70 CROSS COUNTRY			2.4 D5	D 5244 T	2401	5	4	2002	2007	DG-140, DG-610
XC90	I		D5	D 5244 T	2401	5	4	2002	2010	DG-140, DG-610
VOLKSWAGEN										
AMAROK		2H_, 51B	2.0 TDI	CDCA, CNFA, CDBA, CNEA, CSHA, CNFB	1968	4	4	2010		DG-193
BEETLE		9C1, 1C1	1.9 TDI	BSW	1896	4	2	2005	2010	DG-109, DG-177
BORA		1J2	1.9 TDI	ARL	1896	4	2	2000	2005	DG-005, DG-109
BORA9		1J6	1.9 TDI	AHF, ASV, AJM, AUY, AGR, ALH	1896	4	2	1999	2005	DG-005
BORA		1J6	1.9 TDI	ATD, AXR, ARL, ASZ	1896	4	2	2000	2005	DG-005, DG-109
CADDY	III	2K_, 2C_	1.6 TDI	CAYD	1598	4	4	2010	2015	DG-193
	III	2K_, 2C_	1.9 TDI	BLS, BJB	1896	4	2	2004	2010	DG-177
	III	2K_, 2C_	2.0 TDI	CFHF	1968	4	4	2010	2015	DG-193
	III	2K_, 2C_	2.0 TDI 16V	CLCB, CFHC	1968	4	4	2010	2015	DG-193
CC		357	2.0 BlueTDI	CBAC	1968	4	4	2009	2010	DG-193
		357	2.0 TDI	CFGB, CBBB, CFFB, CBAB, CLLA, CBBA, CBAA, CFFA	1968	4	4	2008	2012	DG-193
		358	2.0 TDI	CFGB, CLLA, CFFA, CFFB, CFGC	1968	4	4	2011		DG-193
CRAFTER 30-35		2E_	2.0 TDI	CKUC	1968	4	4	2011	2016	DG-193
		2E_	2.5 TDI	BJL, CECA	2461	5	2	2006	2013	DG-177
CRAFTER 30-50		2E_	2.0 TDI	CKTB, CSLA	1968	4	4	2011	2016	DG-193
		2E_, 2F_	2.0 TDI	CSNA, CKUB, CKUC	1968	4	4	2011	2016	DG-193
		2E_, 2F_	2.5 TDI	BJM, CECB, BJK, CEBB, CECA, BJL	2461	5	2	2006	2011	DG-177
EOS		1F7, 1F8	2.0 TDI	BMM	1968	4	2	2006	2008	DG-177
GOLF	I	17	1.5 D	CK	1471	4	2	1976	1982	DG-012
	II	19E, 1G1	1.6 D	JP	1588	4	2	1983	1991	DG-012
	III	1H1	1.9 TDI	ALE, 1Z, AHU	1896	4	2	1993	1997	DG-005, DG-628
	IV	1J1	1.9 TDI	AHF, ASV, AXR, ATD	1896	4	2	1997	2004	DG-005, DG-109
	V	1K1	1.9 TDI	BKC, BLS, BXE	1896	4	2	2003	2008	DG-177
	V	1K1	2.0 TDI	BMM, BMN	1968	4	2	2004	2008	DG-177
	V	1K1	2.0 TDI 16V	BKD	1968	4	4	2003	2008	DG-177, DG-190
	VI	5K1	2.0 TDI	CFFB, CJAA, CBAB, CBBB, CFGB	1968	4	4	2008	2013	DG-193
	VI	AJ5	2.0 TDI	CBDB, CLCB, CFHC, CJAA	1968	4	4	2009	2013	DG-193
	VI	AJ5, 5K1	1.6 TDI	CAYC	1598	4	4	2009	2013	DG-193
	VII	5G1, BQ1, BE1, 2	1.6 TDI	CLHA	1598	4	4	2012		DG-193
	VII	5G1, BQ1, BE1, 2	2.0 TDI	CRBC, CKFC, CRMB, DCYA, CRLB, DEJA, CRUA	1968	4	4	2012		DG-193
JETTA	VII	BA5, BV5	2.0 TDI	CRBC, CRLB, DCYA, DEJA, CRUA, CKFC	1968	4	4	2013		DG-193
	I	1K2	1.6 TDI	CAYC	1598	4	4	2009	2010	DG-193
	I	1K2	1.9 TDI	BLS, BKC, BXE	1896	4	2	2005	2010	DG-177
	I	1K2	2.0 TDI	CEGA, BMN	1968	4	4	2006	2010	DG-193
	I	1K2	2.0 TDI 16V	CBDB, BKD, CJAA	1968	4	4	2005	2010	DG-190, DG-193
	IV	162, 163	1.6 TDI	CAYC	1598	4	4	2011		DG-193
	IV	162, 163	2.0 TDI	CFFB, CLCB, CFHC, CJAA	1968	4	4	2011		DG-193

MAKE & MODEL				ENGINE				YEAR		PART NUMBER
MODEL	GENERATION	CHASSIS	SERIES	ENGINE CODE	CC	CYLINDERS	VALVE	START	FINISH	
MULTIVAN	V	7H_, 7E_	2.0 BiTDI	CFCA	1968	4	4	2009		DG-193
	V	7H_, 7E_	2.0 TDI	CAAB, CAAC, CCHA	1968	4	4	2009		DG-193
	V	7H_, 7E_	2.5 TDI	BPC, AXE	2461	5	2	2003	2009	DG-109
PASSAT		33	1.6 D	CR	1588	4	2	1979	1980	DG-012
		362	2.0 TDI	CFFA, CFFB, CFGB, CLLA	1968	4	4	2010	2014	DG-193
		365	2.0 TDI	CFFA, CFFB, CFGB, CFGC	1968	4	4	2010	2014	DG-193
		32, 33	1.5 D	CK	1471	4	2	1977	1980	DG-012
		32B, 33B	1.6 D	CR, JK	1588	4	2	1980	1988	DG-012
		3B3	2.5 TDI	AKN, AFB	2496	6	4	2000	2005	DG-144
		3B6	1.9 TDI	AWX, AVF	1896	4	2	2000	2005	DG-005, DG-109
		3C_(362, 365)	2.0 TDI	CFGC	1968	4	4	2012	2014	DG-193
		3C2	2.0 BlueTDI	CBAC	1968	4	4	2009	2010	DG-193
		3C2	2.0 TDI	CBBB, BMR, CBDC	1968	4	4	2005	2010	DG-193
		3C2	2.0 TDI 16V	CBAB, BKP	1968	4	4	2005	2010	DG-190, DG-193
		3C5	2.0 BlueTDI	CBAC	1968	4	4	2009	2010	DG-193
		3C5	2.0 TDI	BMP	1968	4	2	2005	2009	DG-177
		3C5	2.0 TDI	CBBB, BMR	1968	4	4	2005	2010	DG-193
		3C5	2.0 TDI	CBDC	1968	4	4	2008	2010	DG-193
POLO		6R, 6C, 61	1.6 TDI	CAYB	1598	4	4	2009		DG-193
		9N_	1.4 TDI	BMS, BNV	1422	3	2	2005	2009	DG-109
		9N_	1.9 TDI	AXR, BMT, ATD	1896	4	2	2001	2009	DG-109
SANTANA		32B	1.6 D	CR, JK	1588	4	2	1981	1984	DG-012
		32B	1.6 TD	CY	1588	4	2	1981	1984	DG-012
SHARAN		7M8, 7M9, 7M6	1.9 TDI	ANU, 1Z, AHU	1896	4	2	1995	2010	DG-005, DG-109
		7M8, 7M9, 7M6	1.9 TDI	AFN, AVG	1896	4	2	1996	2000	DG-005
		7M8, 7M9, 7M6	1.9 TDI	AUY, BVK	1896	4	2	2000	2010	DG-005, DG-109
		7M8, 7M9, 7M6	1.9 TDI	ASZ, BTB	1896	4	2	2002	2010	DG-109
TIGUAN		5N_	2.0 TDI	CFFB, CBAB, CLJA, CFGC	1968	4	4	2007		DG-193
TOUAREG		7LA, 7L6, 7L7	2.5 RS TDI	BPE, BAC	2461	5	2	2003	2010	DG-109, DG-177
		7LA, 7L6, 7L7	3.0 V6 TDI	BKS, CATA	2967	6	4	2004	2010	DG-193
		7LA, 7L6, 7L7	5.0 V10 TDI	BWF, AYH, BLE	4921	10	2	2002	2010	DG-109
		7P5	3.0 V6 TDI	CASD, CRCO, CJMA, CVWA, CNRB, CASA, CRCA, CJGD	2967	6	4	2011		DG-193
		7P5	4.2 V8 TDI	CKDA	4134	8	4	2010		DG-193
TOURAN		1T1, 1T2	2.0 TDI	BMM	1968	4	2	2005	2010	DG-177
TRANSPORTER	III		1.6 D	CS	1588	4	2	1981	1987	DG-012
	IV	70X_, 7D_	1.9 D	1X	1896	4	2	1990	1995	DG-012
	IV	70X_, 7D_	1.9 TD	ABL	1896	4	2	1992	2003	DG-012
	IV	70X_, 7D_	2.4 D	AAB	2370	5	2	1990	1999	DG-012
	IV	70X_, 7D_	2.4 D	AJA	2370	5	2	1997	2003	DG-012
	IV	70X_, 7D_	2.5 TDI	ACV, AXL	2461	5	2	1995	2003	DG-005
	IV	70X_, 7D_	2.5 TDI	AYC, ACV, AUF	2461	5	2	1995	2003	DG-005
	V	7H_, 7E_, 7J_	1.9 TDI	AXB, AXC	1896	4	2	2003	2009	DG-109
	V	7H_, 7E_, 7J_	1.9 TDI	BRR, BRS	1896	4	2	2006	2009	DG-177
	V	7H_, 7E_, 7J_	2.0 BiTDI	CFCA	1968	4	4	2009		DG-193
	V	7H_, 7E_, 7J_	2.0 TDI	CAAB, CAAC, CAAC, CCHA	1968	4	4	2009		DG-193
	V	7H_, 7E_, 7J_	2.5 TDI	AXD, BNZ, AXE, BPC	2461	5	2	2003	2009	DG-109, DG-177
	VI	SE_, SGA, SGH	2.0 TDI	CFCA, CAAC, CAAB, CXGB	1968	4	4	2015		DG-193

GLOW PLUG PICTURE REFERENCE



PART NUMBER: **DG-001**



PART NUMBER: **DG-003**



PART NUMBER: **DG-004**



PART NUMBER: **DG-005**



PART NUMBER: **DG-006**



PART NUMBER: **DG-007**



PART NUMBER: **DG-008**



PART NUMBER: **DG-009**



PART NUMBER: DG-010



PART NUMBER: DG-012



PART NUMBER: DG-101



PART NUMBER: DG-102



PART NUMBER: DG-104



PART NUMBER: DG-106



PART NUMBER: DG-108



PART NUMBER: DG-109



PART NUMBER: **DG-110**



PART NUMBER: **DG-111**



PART NUMBER: **DG-112**



PART NUMBER: **DG-113**



PART NUMBER: **DG-114**



PART NUMBER: **DG-115**



PART NUMBER: **DG-116**



PART NUMBER: **DG-117**



PART NUMBER: **DG-118**



PART NUMBER: **DG-119**



PART NUMBER: **DG-121**



PART NUMBER: **DG-122**



PART NUMBER: **DG-123**



PART NUMBER: **DG-124**



PART NUMBER: **DG-126**



PART NUMBER: **DG-127**



PART NUMBER: **DG-129**



PART NUMBER: **DG-130**



PART NUMBER: **DG-132**



PART NUMBER: **DG-133**



PART NUMBER: **DG-137**



PART NUMBER: **DG-139**



PART NUMBER: **DG-140**



PART NUMBER: **DG-142**



PART NUMBER: **DG-143**



PART NUMBER: **DG-144**



PART NUMBER: **DG-145**



PART NUMBER: **DG-146**



PART NUMBER: **DG-155**



PART NUMBER: **DG-157**



PART NUMBER: **DG-159**



PART NUMBER: **DG-161**



PART NUMBER: **DG-170**



PART NUMBER: **DG-171**



PART NUMBER: **DG-172**



PART NUMBER: **DG-173**



PART NUMBER: **DG-174**



PART NUMBER: **DG-175**



PART NUMBER: **DG-176**



PART NUMBER: **DG-177**



PART NUMBER: **DG-178**



PART NUMBER: **DG-180**



PART NUMBER: **DG-181**



PART NUMBER: **DG-182**



PART NUMBER: **DG-183**



PART NUMBER: **DG-184**



PART NUMBER: **DG-186**



PART NUMBER: **DG-187**



PART NUMBER: **DG-188**



PART NUMBER: **DG-189**



PART NUMBER: **DG-190**



PART NUMBER: **DG-191**



PART NUMBER: **DG-192**



PART NUMBER: **DG-193**



PART NUMBER: **DG-194**



PART NUMBER: **DG-195**



PART NUMBER: **DG-196**



PART NUMBER: **DG-197**



PART NUMBER: **DG-198**



PART NUMBER: **DG-202**



PART NUMBER: **DG-228**



PART NUMBER: **DG-231**



PART NUMBER: **DG-235**



PART NUMBER: **DG-236**



PART NUMBER: **DG-238**



PART NUMBER: **DG-240**



PART NUMBER: **DG-241**



PART NUMBER: **DG-245**



PART NUMBER: **DG-501**



PART NUMBER: **DG-502**



PART NUMBER: **DG-600**



PART NUMBER: **DG-601**



PART NUMBER: DG-602



PART NUMBER: DG-603



PART NUMBER: DG-604



PART NUMBER: DG-605



PART NUMBER: DG-606



PART NUMBER: DG-608



PART NUMBER: DG-609



PART NUMBER: DG-610



PART NUMBER: **DG-611**



PART NUMBER: **DG-614**



PART NUMBER: **DG-615**



PART NUMBER: **DG-619**



PART NUMBER: **DG-621**



PART NUMBER: **DG-623**



PART NUMBER: **DG-624**



PART NUMBER: **DG-625**



PART NUMBER: **DG-626**



PART NUMBER: **DG-627**



PART NUMBER: **DG-628**



PART NUMBER: **DG-629**



PART NUMBER: **DG-630**



PART NUMBER: **DG-631**



PART NUMBER: **DG-632**



PART NUMBER: **DG-633**



PART NUMBER: **DG-640**



PART NUMBER: **DG-642**



PART NUMBER: **DG-643**



PART NUMBER: **DG-644**



PART NUMBER: **DG-645**



PART NUMBER: **DG-647**



PART NUMBER: **DG-648**



PART NUMBER: **DG-649**



PART NUMBER: **DG-650**



PART NUMBER: **DG-651**



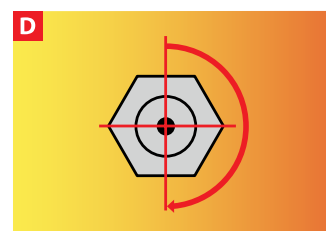
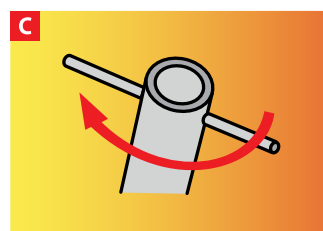
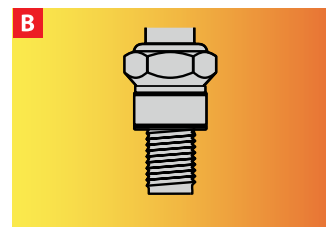
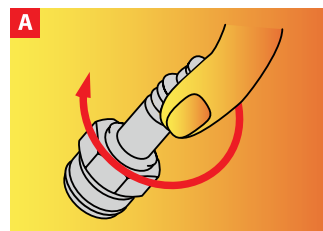
PART NUMBER: **DG-652**



RECOMMENDED TORQUE & ANGLE OF ROTATION FOR DENSO PLUGS:

It is necessary to install the plugs in the engine using the correct torque. If the torque is too low, the plugs are liable to work loose due to leakage of combustion gas or vibration, resulting in possible damage to the engine and the plugs. Conversely, if the torque is too high, the crimping between the insulator and the housing is liable to become loose, causing the integrity of the seal to be impaired or the mounting screw thread to break.

1. Use the correct wrench that matches the hex part of the plug. Take care not to damage the insulator.
2. When changing glow plugs, make sure that oil, dirt etc. on the outside of the disassembled glow plug does not enter into the cylinder.
3. When mounting the glow plug, clean the engine side of the flange and make sure the glow plug is correctly in-line with the thread of the cylinder head.
4. Make sure the plug is correctly positioned and tighten it by hand until it cannot be tightened any further.
5. Then, use a torque wrench to tighten it accurately to the torque showed in the chart below.



RECOMMENDED INSTALLATION TORQUE SPECIFICATION			CAUTION
THREAD SIZE		RECOMMENDED TORQUE	
GLOW PLUG	M8x1.00	8-10 Nm	<p>DO NOT USE A THREAD LUBRICANT! If a thread lubricant such as grease is coated on the thread, the resistance between the glow plug and the cylinderhead will be less > resulting in over tightening.</p> <p>Tightening more than the torques shown in the table could result in damage to the glow plug an engine.</p> <p>Glow plug failure is most commonly caused by excessive voltage and/or heat. Glow plugs are designed to operate between 850 to 1100 degrees.</p> <p>When the electrical current to the glow plug is held too long, either because of a faulty relay and/or controller, it can lead to overheating which will cause immediate failure. Therefore it is advisable to check out the entire electrical system before changing to new glow plugs.</p> <p>Overly advanced interjection timing, leaky injectors, or petrol running into your engine will cause the combustion temperature to increase too much; damaging the glow plug. A faulty relay and controller can also cause glow plug failure so it is advisable to check out the entire system before changing to new glow plugs.</p>
	M9x1.00	8-10 Nm	
	M10x1.00	10-12 Nm	
	M10x1.25	10-12 Nm	
	M12x1.25	15-20 Nm	
	M14x1.25	20-25 Nm	
TERMINAL	M18x1.50	30-40 Nm	
	M4x0.7	1-1.5 Nm	
	M5x0.8	3-4 Nm	

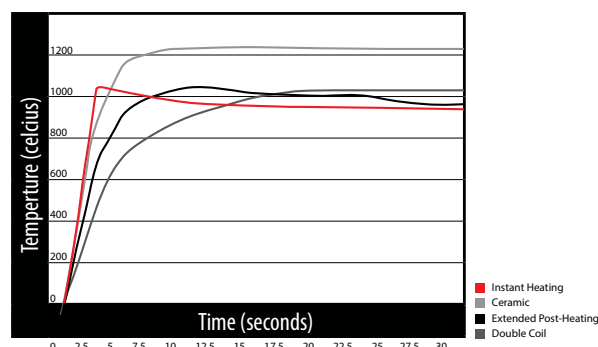
THE DENSO DIFFERENCE

DENSO's Glow Plug programme is a major OE quality, all-makes introduction; launched to provide aftermarket customers with an alternative, advanced branded choice for their growing Diesel needs. The cutting edge programme benefits from DENSO Corporation's pedigree as a world leading OE manufacturer of glow plugs for leading automotive suppliers around the world. The DENSO Glow Plug programme encompasses all current glow plug technologies including single coil, double coil, extended postheating, ceramic glow plugs and instant heating.

FEATURES AND BENEFITS

- OE quality Glow Plugs** that meet or exceed manufacturers' specifications.
- Faster heat-up** times and a reliable cold-start.
- Extended** post-heat temperatures for lower emissions.
- Excellent coverage** ensures suitability for almost every diesel engine in Europe.
- More applications** covered with fewer part references.
- Easy** to use part numbering system.
- Meets** ISO TS16949, ISO14001 and OHSAS 18001 standards.

COMPARISON OF DENSO GLOW PLUG TYPES





DENSO



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