E. Table with Type Data, Design Version, Deviations from Standard Engine, Capacities and Special Output Data of the OM 636 Engines

I. Standard Engine

Type No. present	Type No. before	Model No.	Engine Output HP at rpm	Full Load Max. Speed and/or Beginning of Governing rpm	No Load Max. Speed and/or End of Governing rpm	Intended Use	Equipment of the Standard Engine: (listed are only the versions, assemblies and parts, which are not similar on all engines)	Injection Pump Bosch Designation DB Part No. (P) = Pneumatic Governor (C) = Pneumatic Governor	Full Load Injection Quantity cm³/1000 strokes	Capacities in litre: Oil: Engine without Oil Filter max.	Oil: Engine without Oil Filter min.	Oil: Oil Filter approx.	Oil: Total Oil Capacity	Water: Engine approx.	Water: Radiator	Water: Heater	Water: Total Water Capacity
636.917–00 or –000 as of now	[1]	OM 636.VI-E	Output and speed are adapted to the respective requirements by adjusting the limit stop of the throttle duct. The output and speed adjusted in the plant are specified on the engine Model plate.		plus 12% of the full load max. speed	Standard engine	4-blade fan 380 mm in dia. · V-belt for fan, water pump and generator 17×11×1090 DIN 22 15 Fan mounted on water pump · Water pump: shaft dia. 17 mm with pressed-on long belt pulley Starter EJD 1.8/12 R 29 · Ventilation of crankcase mounted vertically, air vent pipe downwards Generator with separate governor · Throttle duct, because pneumatic governor Rigid suspension of generator · Oil pan: capacity 6.25 ltr., also oil pump with corresponding shape of suction pipe Flywheel 256 mm in dia. · Cooling water outlet duct: connection for remote thermometer and heater at an angle of 45° towards the rear (plugged connectors) Oil relief valve, long version Mounting angle for front engine suspension · Crankcase with 2 fixing studs M 10×30 to fix starter and with 4 fixing studs M 10×42 to fix the clutch housing Oil filter horizontal · Exhaust manifold: exhaust gas exit in rear downwards a = 150 mm, b = 201 mm (see Figure 14–8/1) Belt pulley and spacer on the crankshaft in one piece, the timing housing cover without collar (see Figure 01–16/2 and 03–1/4). Cylinder head without air vent hole and 83 mm long fixing studs to fix the cylinder head cover. Cylinder head cover with oil filler in rear left-hand side and closing cover without air filter. Intake manifold: location and direction of air inlet in the middle of the intake manifold sloped from above. Supplied by DB without air filter, without operating time indicator, without injection timing device **Part No. 636 010 19 00** (see Figure Page 27)	PES 4 A 50 C 410 RS 1010 z 004 074 44 01 (636 070 35 01) (P)	28–29	6.25	3.5	0.25	6.5	4.0	–	–	–

[1] The standard engine with the former type identification 636.917/0 was supplied in several versions, at which accessories and adjustment were different. Table on these engines see Page 0–1/25 and 0–1/27.

Note: The engine with the type designation 636.917-00 or –000 is the standard engine of the built-in engines. For simplicity reasons and to give a better general outline the deviations of all OM 636 engines, that is, the vehicle engines are also listed in relation to the standard engine of the built-in engines.

636.917–001	–	OM 636.IV-E	39/3400	3400	3800	Standard engine with increased output	Similar to standard engine 636.917–000, but with increased output, with injection timing device, corresponding closing cover for timing housing cover, 20 mm high shim between timing housing cover and fuel main filter, other injection pump PES 4 A 50 C 410 RS 1010. Part No. 005 074 45 01 or 636 070 50 01 with governor EP/M 60 A 138 D and an injection quantity at full load of 29–30 cm³/100 strokes. **Part No. 636 010 20 02**									

II. Built-in Engines (including Unimog)

A. Engines with individual type designation (Engines not with present type designation are no longer produced)

Type No. present	Type No. before	Model No.	Engine Output HP at rpm	Full Load Max. Speed and/or Beginning of Governing rpm	No Load Max. Speed and/or End of Governing rpm	Intended Use	Deviations from Standard Engine and Part No. of Complete Engine	Injection Pump Bosch Designation DB Part No. (P) = Pneumatic Governor (C) = Centrifugal Governor	Full Load Injection Quantity cm³/1000 strokes	Capacities in litre: Oil: Engine without Oil Filter max.	Oil: Engine without Oil Filter min.	Oil: Oil Filter approx.	Oil: Total Oil Capacity	Water: Engine approx.	Water: Radiator	Water: Heater	Water: Total Water Capacity
–	636.917/2-I	OM 636.VI–E	27/2600	2600	2850–2950	Combines	Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar · Generator with attached governor Belt pulley and mounting of the belt pulley on the crankshaft with hexagon screw M 18×1.5×40 and lock washer instead of necked-down bolt (expanding bolt) (see Figure 03–1/1) · 6-blade fan 384 mm in dia. · Water pump: shaft dia. 15 mm **Part No. 636 010 13 00**	PES 4 A 50 B 410 RS 68 000 074 33 02 (P)	24.5–25.5	*	*	*	*	*	*	*	*
–	636.917/2-II						Similar to Type 636.917/2 [I], in addition: Exhaust manifold: exhaust gas exit downwards and shifted 15.5 mm from the middle towards the rear, a = 180 mm, b = 15.5 mm (see Figure 14–8/1) Cooling water outlet duct: water outlet at an angle of approx. 30° towards the front, plugged connector of remote thermometer **Part. No. 636 010 27 00**									
–	636.917/2-III						Similar to Type 636.917/2 [II] but supplied by DB without exhaust manifold **Part No. 636 010 28 00**									
636.917–021	636.917/3		22/2200	2200	2450–2550	Fork lifts	Oil pan: capacity 4.75 ltr. and different shape, also oil pump with different suction pipe · Water pump: shaft dia. 15 mm Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar · Flywheel 278 mm in dia. Belt pulley secured on crankshaft with hexagon screw M 18×1.5×40 and lock washer instead of expansion screw (see Figure 03–1/1). Supplied by DB without fan, without belt pulley on the crankshaft and without exhaust manifold **Part. No. 636 010 14 00**	PES 4 A 50 B 410 RS 68 z 003 074 29 01 (636 070 26 01) (P)	28–29			0.25	5.0				
636.917–022	636.917/28		22/1800	1800	1850–1890		Injection pump with centrifugal governor and fuel pre-strainer, moreover some engines of this type were equipped with the injection pump PES 4 A 50 B 410 RS 68 with centrifugal governor EP/RSV 250 – 1525 A 5/5, Generator LJ/ GEH 90/12 – 1800 R 15 and governor RS/TBA 75 – 90/12 A 1. The output of these engines is 32.5 HP at 2800 rpm and 34 HP at 3000 rpm. Timing housing cover has special shape for connecting one additional hydraulic pump drive. Furthermore, **one adapter gear** is installed between the crankshaft timing gear and the belt pulley to drive a hydraulic pump, one additional idle wheel, and one base plate for the mounting of the hydraulic pumps is installed between the crankcase and the timing housing cover (see Figure 01–15/3). Oil filter vertical · Oil pan: capacity 4.75 ltr. and different shape, also oil pump with different suction pipe Oil relief valve, short version · Fit bolts to secure the flywheel are 11 mm longer (35 mm) Two-piece oil line to oil filter · Water pump: shaft dia. 15 mm and short, screwed-on belt pulley Narrow vee-belt 9.5×750 and 9.5×1225 N 275 · Belt pulley of generator has differently shaped belt track Fan bearing bracket and double belt pulley on the crankshaft · Cooling water outlet duct with pipe connector for heating Supplied by DB without fan, without mounting angle for engine front suspension, without throttle and/or flange nipple, without exhaust manifold, without annular ball-bearing in the crankshaft and without flywheel. Separately supplied is the ring gear for the flywheel. **Part No. 636 010 51 00** (see Figure Page 28)	PES 4 A 50 C 410 RS 1010 z 005 074 35 01 (F)	28–29	4.75	2.75	0.50	5.25	*	*	*	*
636.917–023	636.917/33		34/3000	3000	3100–3150		Similar to 636.917–022 but only with the specified injection pump and with mounting angle for engine front suspension but without fan bearing bracket, without narrow vee-belt 9.5×750, without double belt pulley on the crankshaft Belt pulley on the crankshaft is supplied by customer to DB · Cooling water outlet duct similar to stand. engine In addition, one holder for the fuel filter is attached to the timing housing cover, a longer fuel line between fuel filter and injection pump, and a spacing ring for the generator is installed between the crankcase and the generator support. **Part No. 636 010 79 00**	PES 4 A 50 C 410 RS 1010 z 005 074 36 01 (F)									

* means: The same as with standard engine.

Type No. present	Type No. before	Model No.	Engine Output HP at rpm	Full Load Max. Speed and/or Beginning of Governing rpm	No Load Max. Speed and/or End of Governing rpm	Intended Use	Deviations from Standard Engine and Part No. of Complete Engine	Injection Pump Bosch Designation DB-Part No. (P) = Pneumatic Governor (C) = Centrifugal Governor	Full Load Injection Quantity cm³/1000 strokes	Capacities in litres: Oil: Engine without Oil Filter max.	Oil: Engine without Oil Filter min.	Oil: Oil Filter app.	Oil: Total Oil Capacity	Water: Engine app.	Water: Radiator	Water: Heater	Water: Total Water Capacity
–	636.917/4	OM 636.VI–E	The engines of the type 636.917/4 are replaced by type 636.932, but they were formerly supplied with the following deviations from 936.932: Belt pulley and spacer in two pieces, the timing housing cover with collar; Belt pulley and mounting of belt pulley on the crankshaft (see Figure 03-1/1); Flywheel similar to standard engine 256 mm in dia.; Mounting angle for engine front suspension similar to standard engine; Supplied by DB without exhaust manifold														
636.917–040	636.917/5		30/2500	2500	2750–2850	Fork lifts	Oil filter vertical with pertinent oil line; Oil pan rear left (starter end) chamfered; Feed begin set to 26°; Exhaust manifold: exhaust gas outlet in front downwards (a = 117 mm, b = 96.5 mm – refer to Fig. 14–8/1); Flywheel supplied by customer to DB; Supplied by DB without studs for clutch housing and starter attachment, without starter, without fuel filter, without overflow valve, without grooved ball bearing and lock ring in crankshaft, and without fan. **Part. No. 636 010 64 00**	PES 4 A 50 C 410 RS 1010 y 004 074 45 01 (636 070 36 01) (P)	26–27			0.50	6.75				
636.917–050	636.917/6		19/1500 26/2200 30/2500 34/3000	1500 2200 2500 3000	1650–1700 2450–2550 2750–2850 3300–3400	Fork lifts	Flywheel 278 mm in dia.; Worm for operating time indicator mounted on drive shaft of of injection pump; Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar.; Belt pulley on the crankshaft secured with engaging dog instead of necked-down bolt.; Supplied by DB without fan, without cooling water outlet duct, without water pump, without belt pulley on the crankshaft, without exhaust manifold, without starter and without generator. Support and holder for generator are installed.; As from engine 636.917-50-034 149 equipped with pulley 636 206 01 10 and necked-down screw 636 031 00 71. **Part No. 636 010 16 00**	PES 4 A 50 C 410 RS 1010 004 074 46 01 (636 070 37 01) (P)	29–30	*	*	*	*	*	*	*	*
			The different HP-value, full load max. speed and no load max. speed with the same type of injection pump and governor is obtained by adjusting the throttle butterfly (see Job No. 00-12).														
–	636.917/9		30/2500	2500	2750–2850	–	6-blade fan 384 mm in dia.; Water pump: shaft dia. 15 mm; Flywheel 278 mm in dia.; Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar.; Belt pulley and mounting of belt pulley on the crankshaft with hexagon screw M 18×1.5×40 and lock washer instead of necked-down bolt. (see Figure 01–4/12). **Part No. 636 010 20 00**	PES 4 A 50 B 410 RS 68 000 074 64 02 (P)	24.5–25.5								
636.917–090	636.917/10		23/1800	1800	1980–2050	Motor roller	Generator LJ/RJH 150/12-2100 BR 1 with attached RS/TAA 130–150/12/1 One 6-blade fan 384 mm in dia. and one compensating ring for spacing of fan (11 mm thick and 54 mm outer dia.) are separately supplied by DB. **Part No 636 010 21 00**	PES 4 A 50 B 410 RS 68 z 003 074 29 01 (P)	*								
–	636.917/11		The engines of the type 636.917/11 are replaced by type 936.932, but they were formerly supplied with the following deviations from 936.932: Water pump: shaft dia. 15 mm, with short pressed-on belt pulley; Mounting angle for engine front suspension similar to standard engine; Air filter with intake noise silencer, 4-blade fan 380 mm in dia.; Belt pulley and mounting of belt pulley on the crankshaft (see Figure 03–1/1); Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar														
–	636.917/12		30/2500	2500	2750–2850	Fork lifts	Water pump: shaft dia. 15 mm; Exhaust manifold: Exhaust gas exit in the middle downwards a = 145 mm, b = 0 mm (see Figure 14–8/1).; Flywheel produced outside plant; Set bolts to secure flywheel 16 mm longer (40 mm); Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar; Mounting of belt pulley on the crankshaft with necked-down bolt (see Figure 03–1/3) **Part No. 636 010 25 00**	PES 4 A 50 B 410 RS 68 000 074 33 02 (P)	24.5–25.5	4.75	2.75	0.25	5.0				
636.917–120	636.917/13		34/3000	3000	3300–3400	Boats	Set bolts to secure flywheel 11 mm longer (35 mm); Second pulley mounted on crankshaft pulley (refer to Fig. 03–1/4); Spacer mounted between cylinder crankcase and holding rail for generator; Generator governor RS/UAA 160/12/15	PES 4 A 50 B 410 RS 68 z 003 074 29 01 (P)	27.5–28.5	*	*	*	*	*	*	*	*
			39/3400	3400	3700–3800		Supplied by DB without fan, without water pump, without cooling water filler pipe, without fastening bracket for engine suspension front, without vent pipe for cylinder crankcase incl. pipe holder, without studs for attaching clutch housing, without exhaust manifold and without holder on cooling water drain pipe for return spring of bell lever on throttle duct. As from engine No. 636.917-120-058 578 with increased output, with ignition timer, pertinent closing cap for timing housing cover, a 20 mm high shim between timing housing cover and fuel main filter, and with different injection pump. **Part No. 636 010 30 00**	PES 4 A 50 C 410 RS 1010 005 074 45 01 (636 070 50 01) (P)	29–30								
–	636.917/14		The engines of the type 636.917/15 are replaced by type 636.932, but they were formerly supplied with the following deviations from 636.932: Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar; Belt pulley and mounting of belt pulley on the crankshaft (see Figure 03–1/1); Mounting angle for engine front suspension similar to standard engine; Exhaust manifold: exhaust gas exit in the rear downwards a = 150 mm, b = 201 mm (see Figure 14–8/1); Air filter with intake noise silencer; Water pump: shaft dia. 15 mm; 4-blade fan 380 mm in dia.														
–	636.917/15		The engines of the type 636.917/15 are replaced by type 936.933, but they were formerly supplied with the following deviations from 936.933: Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar; Belt pulley and mounting of belt on the the crankshaft (see Figure 03–1/1); Mounting angle for engine front suspension similar to standard engine; Exhaust manifold: exhaust gas exit in the rear downwards a = 150 mm, b = 201 mm (see Figure 14–8/1); Air filter with intake noise silencer; Water pump: shaft dia. 15 mm; 4-blade fan 380 mm in dia.														
–	636.917/16		The engines of the type 636.917/16 are replaced by type 636.933, but they were formerly supplied with the following deviations from 636.933: Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar; Belt pulley and mounting of belt pulley on the crankshaft (see Figure 03–1/1); Mounting angle for engine front suspension similar to standard engine; Water pump: shaft dia. 15 mm, with pressed-on short pulley; Air filter with intake noise silencer; Supplied by DB without exhaust manifold														
–	636.917/17		34/3000	3000	3300–3400	Drive motor	Water pump: shaft dia. 15 mm; 4-blade fan 400 mm in dia. with compensating ring 11 mm thick and 66 mm outer dia.; With wet filter and intake noise silencer; Cooling water outlet duct especially long according to Part No. 636.203 11 31; Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar; Belt pulley and mounting of belt pulley on the crankshaft with hexagon screw M 18X1.5×40 mm and lock washer instead of necked-down bolt (see Figure 03–1/1); 2 holders mounted at the oil pan to attach the push rod; Flywheel 278 mm in dia. **Part No. 636 010 39 00**	PES 4 A 50 B 410 RS 68 000 074 33 02 (P)	24.5–25.5	*	*	*	*	*	*	*	*
–	636.917/18		40/3200	3200	3500–3600	Boat	Similar to type 636.917/17 – in addition exhaust manifold: exhaust gas exit in the middle downwards a = 145 mm, b = 0 mm (see Figure 14–8/1); 6-blade fan 400 mm in dia. with compensating ring 20 mm thick and 66 mm outer dia. **Part No. 636 010 40 00**	PES 4 A 50 B 410 RS 50 001 074 36 01 (P)	29–30								

* means: the same as standard engine

Type No. present	Type No. before	Model No.	Engine Output HP at rpm	Full Load Max. Speed and/or Beginning of Governing rpm	No Load Max. Speed and/or End of Governing rpm	Intended Use	Deviations from Standard Engine and Part No. of Complete Engine	Injection Pump Bosch Designation DB-Part No. (P) = Pneumatic Governor (C) = Centrifugal Governor	Full Load Injection Quantity cm³/1000 strokes	Capacities in litre: Oil: Engine without Oil Filter max.	Oil: Engine without Oil Filter min.	Oil: Oil Filter app.	Oil: Total Oil Capacity	Water: Engine app.	Water: Radiator	Water: Heater	Water: Total Water Capacity
636.917–180	636.917/19	OM 636.VI–E	32.5/2850	2850	3150–3200	Combines	Exhaust manifold: exhaust gas outlet rear downwards a = 74 mm, b = 147 mm (refer to Fig. 14–8/1) Cylinder head cover with oil filler pipe from the right and closing cap without vent filter. | Dust-protected generator LJ/GEH 90/12 – 1800 R 15 Up to engine No. 636.917–180-046 087 pulley and adaptor on crankshaft in two parts, pertinent timing housing cover with collar (refer to Fig. 03–1/1) as from engine No. 636.917–180-046 088 similar to basic engine Fig. 03–1/4) Control lever of injection pump mounted on right-hand side of injection pump tilted 45 deg towards the front Supplied by DB without annular grooved bearing and locking ring in the crankshaft and without oil line from crankcase to oil filter. Separately supplied are a regulator cutout for generator, a 6-blade fan 384 mm in dia. with spacer washer 11 mm thick and 64 mm outer diameter, and a belt pulley for water pump Part No. 636.202 03 11 **Part No. 636 010 34 00**	PES 4 A 50 C 410 RS 1010 004 074 43 01 (636 070 34 01) (P)	29–30	*	*	*	*	*	*	*	*
636.917–190	636.917/20		25/2000 30/2200	2000 2500	2200–2300 2450–2600	Tractors	Dust-proof generator LJ/GEH 90/12 – 2300 R 15 | Water pump: shaft dia. 15 mm Oil bath air filter Part No. 000 094 51 02 | Worm for operating time indicator mounted to drive shaft of injection pump (see Figure 01–11/3) Exhaust manifold: exhaust gas exit in the rear downwards a = 150 mm, b = 195 mm (see Figure 14–8/1) A 30 mm high spacer is installed between timing housing cover and fuel main filter Separately supplied by DB are one regulator cutout for generator, one 4-blade fan 380 mm in dia. with spacer washer 8 mm thick and outer diameter of 66 mm **Part No. 636 010 35 00**									
			The different HP-value, full load max. speed and no load max. speed with the same type of injection pump and governor is obtained by adjusting the throttle butterfly (see Job No. 00–12).												
–	636.917/21		22/1800	1800	1850–1890	As power plant for machinery	Water pump: shaft dia. 15 mm with pressed-on short belt pulley Flange nipple, because injection pump with centrifugal governor Belt pulley on crankshaft and fixing screw of same (see Figure 03–1/3) Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar Oil relief valve short version and two-piece oil line between crankcase and oil filter Supplied by DB without fan, without exhaust manifold and without generator. Support and holder for generator are attached. **Part No. 636 010 41 00**	PES 4 A 50 B 410 RS 50 000 074 97 02 (F)									
–	636.917/22		The Engines of the Type 636.917/22 were replaced by Type 636.932, however, they were formerly delivered with the following deviations from 636.932: Belt pulley und mounting of pulley on the crankshaft (see Figure 03–1/3) | Belt pulley and spacer on crankshaft in two pieces, the timing housing cover with collar Mounting angle for engine suspension similar to standard engine | without starter | Intake manifold Part No. 636.140 06 01 with 2 threaded bushings 10/14×10 N 194 | Water pump: shaft dia. 15 mm with pressed-on short belt pulley														
636.917–221	636.917/23		34/3000	3000	3300–3400	Fork lifts	Oil pan: capacity 4.75 litres and different shape, the oil pump with different suction pipe Fit bolts to fix the flywheel are 16 mm longer (40 mm) Exhaust manifold: exhaust gas exit in front towards the rear a = 117 mm, b = 96.5 mm (see Figure 14–8/1) Adjusting lever of injection pump attached to the injection pump on the right-hand side vertically upwards Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar The belt pulley on the crankshaft is supplied to DB by the customer and is fixed with the necked-down bolt (see Figure 03–1/3) A holder (angle plate) to attach the cable control for stop and start quantity and to attach the fuel line between the holder and the suction end of the feed pump which has been transferred to behind the injection pump Supplied by DB without flywheel. Separately supplied: a ring gear for flywheel and a 4-blade blower 380 mm in dia. **Part No. 636 010 42 00**	PES 4 A 50 C 410 RS 1010z 006 074 35 01 (636 070 52 01) (P)	28–29	4.75	2.75	0.25	5.0	*	*	*	*
636.917–222	636.917/29		34/3000	3000	3300–3400		Similar to 636.917–221 with the exception of the belt pulley on the crankshaft, the belt pulley is supplied by DB (see Figure 03–1/3) **Part No. 636 010 73 00**										
636.917–223	–		38/3400	3400	3740–3880	Tractors	Similar to 636.917–222 but exhaust manifold similar to standard engine and without separately supplied ring gear for flywheel. Separately supplied is a fan similar to standard engine and a spacer washer 8 mm thick with an outer dia. of 66 mm. **Part No. 636 010 90 00**										
636.917–224	–		31/2500	3000	3300–3400	Staplers	Similar to 636.917–223 but timing housing cover similar to basic engine | Generator LJ/GEG supplied as of late by DB without generator with flywheel 278 mm dia. | different vacuum line from injection pump to throttle duct intake line with location and direction of air intake in center of intake line vertically from above Exhaust manifold: exhaust gas outlet front towards rear a = 117 mm, b = 96,5 mm (refer to Fig. 14–8/1) with fan bearing bracket and additional pulley on crankshaft, narrow V-belt 9.5×750 N 275 and V-belt 17×11×1090 DIN 2215 **Part No. 636 010 17 02**										
636.917–225	–		38/3300	3300	3600–3700		Similar to 636.917–224 but with increased output, with injection timer, fitting closing cap for timing housing cover, a 20 mm high shim between timing housing cover and fuel main filter, different intake line: location and direction of air intake in center of intake line at an angle from above and different injection pump. Supplied without flywheel by DB. **Part No. 636 010 22 02**	PES 4 A 50 C 410 RS 1010 006 074 34 01 (636 070 49 01) (P)									
–	636.917/24		34/3000	3000	3100–3150	As power unit for machinery	Water pump: shaft dia. 15 mm | flange nipple, because injection pump with centrifugal governor Starter EJD 1.8/24 R | Oil bath air filter Part No. 000 094 89 02 Oil relief valve short version and oil line between crankcase and oil filter in two pieces Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar Belt pulley and mounting of pulley on the crankshaft (see Figure 03–1/1) Supplied by DB without fan Part No. 636 010 44 00	PES 4 A 50 B 410 RS 50 000 074 98 02 (C)	29–30	*	*	*	*				

* means: the same as standard engine

Type No. present	Type No. before	Model No.	Engine Output HP at rpm	Full Load Max. Speed and/or Beginning of Governing rpm	No Load Max. Speed and/or End of Governing rpm	Intended Use	Deviations from Standard Engine and Part No. of Complete Engine	Injection Pump Bosch Designation DB-Part No. (P) = Pneumatic Governor (C) = Centrifugal Governor	Full Load Injection Quantity cm³/1000 strokes	Capacities in litres: Oil: Engine without Oil Filter max.	Oil: Engine without Oil Filter min.	Oil: Oil Filter app.	Oil: Total Oil Capacity	Water: Engine app.	Water: Radiator	Water: Heater	Water: Total Water Capacity
636.917–240	636.917/25	OM 636.VI–E	25/2000 30/2200	2000 2200	2200–2300 2450–2600	Tractors	Worm for operating time indicator mounted to drive shaft of injection pump Cylinder head cover with oil filler at front right-hand side and protecting cover without air vent filter A 20 mm thick spacer between timing housing cover and fuel main filter Exhaust manifold: exhaust gas exit in the rear downwards a = 150 mm, b = 195 mm (see Figure 14–8/1) as from engine No. 636.917–240–045 888 a = 74 mm, b = 147 mm Mounted at cooling water outlet duct: one holder for return spring to bell-crank lever at throttle duct Throttle duct: bell-crank and butterfly lever different Vacuum line: different shape, because connection at throttle duct outside Separately supplied by DB is one 4-blade fan 384 mm in dia. **Part No. 636 010 45 00**	PES 4 A 50 B 410 RS 50 000 074 50 02 (P)	29–30	*	*	*	*	*	*	*	*
–	636.917/26		34/3000	3000	3100–3150	Combines	Water pump: shaft dia. 15 mm | Flange nipple, because injection pump with centrifugal governor Oil relief valve short version and two-piece oil line between crankcase and filter Belt pulley and spacer on crankshaft in two pieces, the timing housing cover with collar Belt pulley and mounting of belt pulley on the crankshaft (see Figure 03–1/1) Cooling water outlet duct: connection for heater and remote thermometer towards the rear, water outlet at an angle of 30 deg towards the front, connection for remote thermometer plugged (see Figure Page 32) Supplied by DB without fan **Part No. 636 010 49 00**	PES 4 A 50 B 410 RS 50 000 074 98 02 (F)									
–	636.917/27		34/3000	3000	3100–3150	As power unit for machinery	Similar to 636.917/26 but cooling water outlet duct similar to standard engine **Part No. 636 010 50 00**										
636.917–251	636.917/30		34/3000	3000	3100–3150	Combines	Injection pump with centrifugal governor, flange connection with a second, magnetically operated control flap Dust-proof generator LJ/GEH 90/12–2300 R 15 Oil relief valve short version and two-piece oil line between crankcase and filter Cylinder head cover with oil filler in front right hand side and protecting cover without air vent filter and without vent pipe for cylinder crankcase Exhaust manifold: exhaust gas exit in the middle downwards a = 145 mm, b = 0 mm (see Figure 14–8/1) Supplied by DB without belt pulley of generator and without annular grooved bearing and locking ring in the crankshaft. Separately supplied are one 6-blade fan 384 mm in dia. and one spacer washer 11 mm thick and 64 mm outer dia. **Part No. 636 010 74 00**	PES 4 A 50 C 410 RS 1010 005 074 37 01 (F)									
636.917–252	636.917/31		34/3000	3000	3300–3400	Tractors	Dust-proof generator LJ/GEH 90/12—2300 R 15 | The flywheel is sent from customer to DB for assembly Cylinder head cover with oil filler in front right hand side and protecting cover with air vent filter Intake manifold: Location and direction of air inlet in the middle of the intake manifold horizontally Throttle duct: different bell-crank and butterfly lever | Vacuum line: different shape, because connection at throttle duct on top Supplied by DB without belt pulley of generator, without exhaust manifold and without annular grooved bearing and locking ring in the crankshaft. Separately supplied is one 4-blade fan 384 mm in dia. and compensating ring 11 mm thick and 64 mm in dia. **Part No. 636 010 75 00**	PES 4 A 50 C 410 RS 1010 z 004 074 44 01 (636 070 35 01) (P)	28–29								
636.917–253	636.917/32		34/3000	3000	3300–3400	Fork lifts	Similar to 636.917-253 but bell and flap lever on throttle duct different | with fan bearing bracket and added pulley on crankshaft Intake line: Location and direction of air intake in center of intake line vertically from above Water pump: shaft dia. 15 mm | Without fastening bracket for engine suspension front **Part No. 636 010 08 00**									
636.917–260	–		34/3000	3000	3100–3150	Combines	Injection pump with centrifugal governor | Generator LJ/GEH 90/12-1800 R 15 Oil relief valve short version and two-piece oil line between crankcase and filter Cylinder crankcase: Only 3 fixing studs M 10×42 mm screwed in to fix the clutch housing Supplied by DB without flange or throttle duct, without grooved ball bearing and lock ring in crankshaft, and lately also without exhaust manifold. Separately supplied are a governor switch RS/TBA 75-90/12/A 1 for generator, a 6-blade fan, 383 mm dia. and a compensating washer 11 mm thick and 64 mm OD. **Part No. 636 010 80 00**	PES 4 A 50 B 410 RS 50 000 074 37 01 (P)	29–30								
636.917–261	–		38/3250	3250	3350–3400		Similar to 636.917-260 but with increased output, with injection timer, with pertinent closing cap for timing housing cover, a 20 mm high shim between timing housing cover and fuel main filter, a different injection pump and 4-blade fan 384 mm dia. **Part No. 636 010 19 02**	PES 4 A 50 C 410 RS 1010 005 074 46 01 (F)	3.5–32.5								
636.917–270	–		30/2500 34/3000	2500 3000	2750–2900 3300–3400	Fork lifts	Flywheel 278 mm in dia. Water pump: shaft dia. 15 mm and pressed-on short belt pulley Separately supplied is one 4-blade pressure fan 380 mm in dia. **Part No. 636 010 81 00**	PES 4 A 50 C 410 RS 1010 004 074 44 01 (636 070 44 01) (P)	28–29								

The different HP-value, full load max. speed and no load max. speed with the same type of injection pump and governor is obtained by adjusting the throttle butterfly (see Job No. 00–12).

The different HP-value, full load max. speed and no load max. speed with the same type of injection pump and governor is obtained by adjusting the throttle butterfly (see Job No. 00–12).

* means: the same as standard engine

Type No. present	Type No. before	Model No.	Engine Output HP at rpm	Full Load Max. Speed and/or Beginning of Governing rpm	No Load Max. Speed and/or End of Governing rpm	Intended Use	Deviations from Standard Engine and Part No. of Complete Engine	Injection Pump Bosch Designation DB-Part No. (P) = Pneumatic Governor (C) = Centrifugal Governor	Full Load Injection Quantity cm³/1000 strokes	Capacities in litres: Oil: Engine without Oil Filter max.	Oil: Engine without Oil Filter min.	Oil: Oil Filter app.	Oil: Total Oil Capacity	Water: Engine app.	Water: Radiator	Water: Heater	Water: Total Water Capacity
636.917–271	–	OM 636.VI–E	25/2000 30/2500	2000 2500	2250–2400 2750–2900	Fork lifts	Flywheel 278 mm in dia. Exhaust manifold: exhaust gas exit in the rear downwards, a = 150 mm, b = 201 mm (see Figure 14-8/1) Separately supplied are one blower, 4-blade, 380 mm in dia. and one spacer washer 8 mm thick and 66 mm outer dia. Not supplied will be adjusting pointer 636 032 00 15 and fastening bracket for engine suspension **Part No. 636 010 82 00**	PS 4 A 50 C 410 RS 1010 z 004 074 44 01 (636 070 35 01) (P)	28–29	*	*	*	*	*	*	*	*
			The different HP-value, full load max. speed and no load max. speed with the same type of injection pump and governor is obtained by adjusting the throttle butterfly (see Job No. 00-12).														
636.917–272	–		30/2500 34/3000	2500 3000	2750–2900 3300–3400		Similar to 636.917-271 but supplied by DB without flywheel **Part No. 636 010 89 00**										
636.917–273	–		30/2500	2500	2750–2900		Flywheel 278 mm in dia. Exhaust manifold: exhaust gas exit in the rear downwards, a = 74 mm, b = 147 mm (see Figure 14-8/1) without fastening bracket for engine suspension front. Separately included are 1 four-blade thrust fan, 380 mm dia. and a compensating washer 8 mm thick and 66 mm OD. **Part No. 636 010 01 02**										
636.917–274	–		30/2500	2500	2750–2900		Exhaust manifold: exhaust gas outlet rear downwards a = 74 mm, b = 147 mm (refer to Fig. 14-8/1) without fastening bracket for engine suspension front and without flywheel Separately included are one 4-blade thrust fan, 380 mm dia. and one compensating washer 8 mm thick and 66 mm OD. **Part No. 636 010 02 02**										
636.917–280	–		34/3000	3000	3300–3400	Boat	Flywheel 278 mm in dia. Exhaust manifold: exhaust gas outlet rear downwards a = 74 mm, b = 147 mm (refer to Fig. 14-8/1) Separately supplied by DB are one 4-blade fan, 380 mm dia. and a compensating washer 8 mm thick, 66 mm OD (similar to basic engine) **Part. No. 636 010 83 00**										
636.917–290	–		32.5/2800	2800	2880–2940	Combines	Flywheel 278 mm in dia. Flange nipple, because injection pump with centrifugal governor Dust-proof generator LJ/GEH 90/12-2300 R 15 Oil relief valve short version and two-piece oil line between crankcase and filter Exhaust manifold: exhaust gas exit in the front downwards a = 117 mm, b = 96.5 mm (see Figure 14-8/1) Separately supplied by DB are one regulator cutout RSUA 90/12/4 for generator, one 6-blade fan 384 mm in dia. and one compensating disc 11 mm thick, 64 mm outer dia. **Part No. 636 010 84 00**	PES 4 A 50 C 410 RS 1010 005 074 41 01 (F)	29–30								
636.917–300	–		25/2000 30/2500	2000	2250–2400	Plant sprayers	With operating time indicator (refer to Job No. 01-11) | Flywheel 278 mm in dia. Feed begin set to 28° Exhaust manifold: exhaust gas outlet in center downwards a = 145 mm, b = 0 mm (refer to Fig. 14-8/1) as from engine No. 636 917-300-030 797, oil sump 4.75 litres and other shape, pertinent oil pump with other intake pipe. Also upright oil filter Between timing housing cover and fuel main filter is a 30 mm high shim Separately supplied by DB are one 4-blade fan, 384 mm dia. and a compensating washer 11 mm thick, 64 mm OD (similar to basic engine). **Part No. 636 010 85 00**	PES 4 A 50 C 410 RS 1010 004 074 4601 (636 070 37 01) (P)	28–29	4.75	2.75	0.25	5.0	*	*	*	*
636.917–310	–		25/2000	2000	2250–2400	Tractors	Flywheel 278 mm in dia. Generator LJ/RJH 150/12-2100 BR 1 with governor RS/TAA 130-150/12/1 Oil pan 4.75 litres and different shape, the oil pump with different suction pipe Mounted on oil pan: holder for return spring and linkage to throttle lever at throttle duct Tappet housing cover with mounted bell-crank lever and bearing with deflection lever for controlling (gas linkage) Cylinder head cover with oil filler in the front right-hand side and protecting cover without air vent filter Throttle duct: different bell-crank and butterfly lever Vacuum line: different shape, because connection at throttle duct outside Intake manifold: Location of air inlet in the middle of intake manifold vertically from above Exhaust manifold: exhaust gas exit upwards and shifted to the rear 15.5 mm from the middle, a = 180 mm, b = 15.5 mm (see Figure 14-8/1) Separately supplied by DB are one 4-blade fan 380 mm in dia. and one spacer washer 8 mm thick, outer dia. 66 mm (version similar to standard engine) **Part No. 636 010 86 00**	PES 4 A 50 B 410 RS 68 z 003 074 2901 (636 070 26 01) (P)									
636.917–320	–		34/3000	3000	3100–3150	Welding sets	Flange nipple, because injection pump with centrifugal governor as from engine No. 636.917-320-040 769 with other generator, some without Oil relief valve short version with two-piece oil line between crankcase and filter A 20 mm thick spacer is installed between the timing housing cover and the fuel main filter Exhaust manifold: exhaust gas exit in the middle upwards a = 70 mm, b = 0 mm (see Figure 14-8/1) as from engine No. 636.917-320-001 160 without exhaust manifold from DB Protecting cover of timing housing cover with connector and sealing ring and at the drive shaft of injection pump an engaging dog for drive revolution indicator (see Figure 01-12/1) Separately supplied by DB are one 4-blade fan, 380 mm dia. and one compensating washer 8 mm thick, 66 mm OD as from engine No. 636.917-320-039 278 one 4-blade fan, 380 mm dia. and one compensating washer 11 mm thick, 64 mm OD (similar to basic engine) **Part No. 636 010 87 00**	PES 4 A 50 C 410 RS 1010 005 074 37 01 (F)	29–30	*	*	*	*				
636.917–330	–		34/3000	3000	3100–3150	Combines	Flange nipple, because injection pump with centrifugal governor Oil relief valve short version and two-piece oil line between crankcase and filter Supplied by DB without starter and without generator. Separately supplied are one 4-blade fan 380 mm in dia. and one spacer washer 8 mm thick, 66 mm outer dia. (version similar to standard engine) **Part No. 636 010 88 00**										

* means: the same as standard engine

Type No. present	Type No. before	Model No.	Engine Output HP at rpm	Full Load Max. Speed and/or Beginning of Governing rpm	No Load Max. Speed and/or End of Governing rpm	Intended Use	Deviations from Standard Engine and Part No. of Complete Engine	Injection Pump Bosch Designation DB-Part No. (P) = Pneumatic Governor (C) = Centrifugal Governor	Full Load Injection Quantity cm^3/1000 strokes	Capacities in litres: Oil: Engine without Oil Filter max.	Oil: Engine without Oil Filter min.	Oil: Oil Filter app.	Oil: Total Oil Capacity	Water: Engine app.	Water: Radiator	Water: Heater	Water: Total Water Capacity
636.917–340	–	OM 636.VI–E	34/3000	3000	3100–3150	Generators	Oil pan: capacity 3.6 litres, guide sleeve for oil dipstick, different shape, the oil pump with different suction pipe and holder for suction pipe Oil filter vertical | Water pump: shaft dia. 15 mm with pressed-on hub and short screwed-on belt pulley With fan bearing bracket | Narrow V-belt 9.5×750 and 9.5×1225 N 275 Generator LJ/GEH 160/12-2500 R 10 | Rubber suspension of generator (see Figure 15-11/2) Flywheel 278 mm in dia. | Flange nipples, because injection pump with centrifugal governor Oil relief valve short version with two-piece oil line between crankcase and filter Exhaust manifold: up to engine No. 636.917-340-08 180 exhaust gas exit in the rear downwards a = 54 mm, b = 221.5 or 215.5 mm (see Figure 14-8/1) Tappet housing cover with screening plate against heat radiation of the exhaust manifold (screening plate mounted only up to engine end No. -08 180) Cylinder head cover with oil filler at front right-hand side and protecting cover without air vent filter Double belt pulley, fixing screw of the belt pulley on the crankshaft (see Figure 03-1/2) Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar Fixing screw with timing needle for top dead center and feed begin (see Figure 00-6/1) Engine support for engine suspension screwed on to the front of the timing housing cover (see Figure 33) 2 fixing studs M 10×30 to fix generator support at the crankcase Separately supplied by DB are one regulator cutout Bosch RSUA 160/12/15 for generator and one 4-blade fan 400 mm in dia. **Part No. 636 010 91 00**	PES 4 A 50 C 410 RS 1010 005 074 37 01 (F)	29–30	3.6	2.5	0.50	4.1	*	*	*	*
636.917–350	–		34/3000	3000	3100–3150	Combines	Flywheel 278 mm in dia. | Dust-proof generator LJ/GEH 90/12-1800 R 15 With operating time indicator | Injection pump with centrifugal governor Oil relief valve short version and two-piece oil line between crankcase and filter Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar Belt pulley and fixing screw on the crankshaft (see Figure 03-1/1) Cylinder head cover with oil filler at front right-hand side and protecting cover without air vent filter Exhaust manifold: exhaust gas exit in rear downwards a = 74 mm, b = 147 mm (see Figure 14-8/1) Supplied by DB without flange nipples and/or throttle duct. Separately supplied are one governor switch Bosch RS/TBA 75-90/12 A 1 for generator, one 6-blade fan 384 mm in dia. and with it one spacer washer 11 mm thick and 64 mm in dia. **Part No. 636 010 93 00**												
636.917–360	–		31.5/2500	2500	2575–2625	For driving auxiliary units	Bosch starter EJD 1.8/24 R | Flange connection because inj. pump has centr. gov. | Cyl. head cover type C Short oil relief valve with other oil line from cyl. crankcase to filter and 1 nozzle of 1.5 mm dia. in hollow screw on filter to restrict oil volume Exhaust manifold: exhaust gas outlet in center and upwards a = 70 mm, b = 0 mm (refer to Fig. 14-8/1) Water pump: shaft dia. 15 mm with pressed on hub and short, screwed-on pulley Pulley on crankshaft and water pump is supplied by customer to DB Supplied by DB without flange connections, without generator, without fan and without comp. washer for fan **Part No. 636 010 94 00**	PES 4 A 50 C 410 RS 1025 005 074 43 01 (F) with forced oil feed from engine										
636.917–370	–		22/1800	1800	1850–1890	Fork Lifts	Water pump: Shaft dia. 15 mm Oil sump: oil capacity 4.75 litres and other shape, pertinent oil pump with other intake pipe Exhaust manifold: exhaust gas outlet in center downwards a = 145 mm, b = 0 mm (refer to Figure 14-81) Spacer mounted between holding rail, generator and cylinder crankcase Supplied by DB without intake line, without throttle duct or flange connection, without generator, without grooved ball bearing and lock ring in crankshaft and without engine suspension bracket front **Part No. 636 010 00 02**	PES 4 A 50 C 410 RS 1010 005 074 42 01 (F)										
636.917–380	–		30/2500	2500	2550–2625	Fork Lifts	Water pump: shaft dia. 15 mm and short, screwed on pulley | Flange conn., because inj. pump has centr. governor Short oil relief valve | Two-piece oil line to oil filter | Oil filter vertical Narrow V-belt 9.5×750 and 9.5×1255 N 275 | Fan bracket and double pulley on crankshaft Adaptor on crankshaft and timing housing cover with collar | Air outlet in center of intake line vert. from above Oil sump: Oil capacity 4.75 litres and other shape with oil pump and other intake pipe | Dustproof generator LJ/GEH 90/12-2300 R 15 Exhaust manifold: exhaust gas outlet rear downwards a = 74 mm, b = 147 mm (refer to Fig. 14-8/1) | without fastening bracket for engine suspension front **Part No. 636 010 05 02**	PES 4 A 50 C 410 RS 1010 005 074 44 01 (F)		4.75	2.75	0.50	5.25				
636.917–390	–		30/2500	2500	2750–2900	Fork Lifts	Flywheel 278 mm dia. Exhaust manifold: exhaust gas outlet rear downwards a = 74 mm, b = 147 mm (refer to Fig. 14-8/1) | without fastening bracket for engine suspension front **Part No. 636 010 03 02**	PES 4 A 50 C 410 RS 1010 z 004 074 44 01 (636 070 35 01) (P)	28–29									
636.917–391	–		34/3000	3000	3300–3400	Fork Lifts	Exhaust manifold: exhaust gas outlet rear downwards a = 74 mm, b = 147 mm (refer to Fig. 14-8/1) | Fan 636 205 04 06 without fastening bracket for engine suspension front Flywheel is supplied by customer **Part No. 636 010 04 02**											
636.917–400	–		34/3000	3000	3300–3400	Combines	Flange connection because injection pump has centr. governor | Fan 636 205 04 06 | Two-piece oil line to oil filter | Short oil relief valve Dustproof generator LJ/GEH 90/12-1800 R 15 Supplied by DB without flange connection and crankshaft without grooved ball bearing and lock ring **Part No. 636 010 02**	PES 4 A 50 C 410 RS 1010 005 074 37 01 (F)	29–30	*	*	*	*					
636.917–410	–		34/3000	3000	3300–3400	Concrete Mixers	Flange connection because inj. pump has centr. gov. | Fan 636 205 08 06 | Two-piece oil line to oil filter | Short oil relief valve as from engine No. 636.917-410-058 392 Closing cap of timing housing cover with connection and sealing ring, on drive shaft for injection pump one carrier with tongue for driving a rev. counter (refer to Fig. 01-12/1), and between timing housing cover and fuel main filter a 20 mm high shim. Supplied by DB without flange connection **Part No. 636 010 07 02**											
636.917–411	–		38/3250	3250	3350–3400		Similar to 636.917-410 but with increased output, with injection timer and pertinent closing cap for timing housing cover with connection and carrier with lug for rev. counter drive, other injection pump, crankshaft with flywheel 636 030 08 05 or with clutch support supplied by Irion. In this case a clutch support with pressed on starter gear ring is mounted on crankshaft. **Part No. 636 010 23 02**	PES 4 A 50 C 410 RS 1010 005 074 46 01 (F)	31.5–32.5									

* means: the same as in standard engine

Type No. present	Type No. before	Model No.	Engine Output HP at rpm	Full Load Max. Speed and/or Beginning of Governing rpm	No Load Max. Speed and/or End of Governing rpm	Intended Use	Deviations from Standard Engine and Part No. of complete Engine	Injection Pump Bosch Designation DB-Part No. (P) = Pneumatic Governor (C) = Centrifugal Governor	Full Load Injection Quantity cm³/1000 strokes	Capacities in lit. Oil: Engine without Oil Filter max.	Oil: Engine without Oil Filter min.	Oil: Oil Filter app.	Oil: Total Oil Capacity	Water: Engine app.	Water: Radiator	Water: Heater	Water: Total Water Capacity
636.936	–	OM 636.VI–E	Output and full load max. speed depending on intended use and installed injection pump, see specifications on Model plate		plus 3 to 5% of the full load max. speed	As power unit for Machinery Boats, Generator and Marine Sets (Producing Plant: Berlin-Marienfelde)	Flywheel 278 mm in dia; Injection pump with centrifugal governor Oil relief valve short version and oil line with connector for second line from crankcase to oil filter As from engine No. 636.936-000251 a timing gear housing cover with collar (a see Figure 01–16/2) and an intermediate piece (6) with oil baffle plate (2) is installed (see Figure 03–1/1). Supplied by DB Plant Untertuerkheim to DB Plant Berlin-Marienfelde without injection pump, without throttle or flange duct, without vacuum line, without air vent pipe and pipe holder at crankcase, without mounting angle and without long fixing stud to secure the mounting angle for engine front suspension, without belt pulley on the crankshaft, without annular ball-bearing and locking ring in the crankshaft for transmission drive shaft, without fuel main filter, without fuel hoses from fuel feed pump to fuel main filter and from fuel main filter to injection pump, without fuel by-pass lines from fuel main filter to T-section and from T-section to adapter of fuel return line, without generator and support for generator, without exhaust manifold, without oil filter, without oil line and/or second line from connecting line crankcase to oil filter, without belt pulley of water pump with 17 mm dia. shaft, without cooling water outlet duct, without V-belt, without fan and spacer washer for fan. Depending on the intended use an injection pump with centrifugal governor is installed in the Plant Berlin-Marienfelde (see Job No. 07–2 "List of injection pumps with governor and fuel feed pump installed up to date" pages 07–2/11 and 07–2/12). **Part No. 636 010 96 00**	Version of injection pump depending on intended use, see Table of Injection Pumps Job No. 07–2, Page 07–2/11 and 07–2/12		*	*	Unknown, because engine leaves Untertuerkheim without oil filter	*	*	*	*

* means: the same as standard engine

Type No. present	Type No. before	Model No.	Engine Output HP at rpm	Full Load Max. Speed and/or Beginning of Governing rpm	No Load Max. Speed and/or End of Governing rpm	Intended Use	Deviations from Standard Engine and Part No. of Complete Engine	Injection Pump Bosch Designation DB-Part No. (P) = Pneumatic Governor (C) = Centrifugal Governor	Full Load Injection Quantity cm³/1000 strokes	Capacities in litres: Oil: Engine without Oil Filter max.	Oil: Engine without Oil Filter min.	Oil: Oil Filter app.	Oil: Total Oil Capacity	Water: Engine app.	Water: Radiator	Water: Heater	Water: Total Water Capacity
636.917–420	–	OM 636.VI–E	34/3000	3000	3300–3400	Platform Lift Trucks	Fan support bracket with double belt pulley on crankshaft Adaptor of crankshaft and governor housing cover with collar Narrow vee-belt 9.5×750 and 9.5×1225 N 275 Oil sump: oil capacity 4.75 litres, and other shape, with oil pump having another intake pipe Oil filter, vertical, and pertinent oil line With housing venting system using vent pipe 636 010 04 64 Vacuum line angle and flap lever on throttle duct different and with return spring Vacuum line: Location and direction of air inlet in center of suction line vertically from above Exhaust manifold: Exhaust gas exit at the rear downwards a = 74 mm, b = 147 mm (refer to Figure 14-8/1) Generator: LJ/GEH 160/12-2500 R 10 with control switch Bosch RSUA 160/12/15 Water pump 181 200 1201 | Fan 181 205 08 06 with engine support for engine suspension at front of control housing cover screwed-on (refer to Fig. on p. 33) Supplied by DB plant Untertürkheim without fastening bracket for engine suspension front, without vent pipe and pipe holder. **Part No. 636 010 14 02**	PES 4 A 50 C 410 RS 1010 z 004 074 44 01 (636 070 35 01) (P)	28–29	4.75	2.75	0.50	5.25	*	*	*	*
636.917–430	–		34/3000	3000	3300–3400	For Operating Tree Sprayers	Vacuum line angle and flap lever on throttle duct different and with return spring Vacuum line: Location and position of air inlet in center of suction line vertically from above Supplied by DB plant Untertürkheim without fan. **Part No. 636 010 15 02**										
636.917–440	–		38/3300	3300	3600–3700	Fork Lift	With injection timer, with matching closing cover for control housing and 20 mm high shim for attachment of fuel main filter Oil filter vertical, with matching oil line to cylinder crankcase Spacer ring mounted between cylinder crankcase and holding rail for generator Supplied by DB plant Düsseldorf without exhaust manifold, without fastening bracket for engine suspension front, without flywheel, without grooved ball bearing and without lock ring in crankshaft. **Part No. 636 010 24 02**	PES 4 A 50 C 410 RS 1010 005 074 45 01 (636 070 50 01) (P)	29–30					4.0	9.0	–	13
636.912 and 636.914	-	OM 636.VI–U	25/2350 30/2550 32/2550	2350 2550 2550	2550–2650 2700–2850 2700–2850	**Unimog** (Universal motor vehicle)	With operating hour counter | Water pump: shaft dia. 15 mm with pressed-on, short pulley Flywheel 278 mm dia. | Generator LJ/GEG 160/12-2500 R 10 with matching pulley Spacer ring mounted between cylinder crankcase and holding rail for generator A 30 mm shim mounted between control housing cover and fuel main filter Exhaust manifold: exhaust gas exit at the rear downwards a = 150 mm, b = 195 mm (see Figure 14-8/1) Studs in cylinder head for attaching rocker arm brackets and cylinder head cover 52 mm long (normal M 8×83 mm) Fuel overflow line from T-piece to fuel filter is different, likewise the fuel line, the T-piece and the fuel hose from fuel feed pump to fuel filter Cooling water drain pipe: Water drain toward the rear, connection for heating branches off at the left, telethermometer connection extends vertically upwards, connections closed Cylinder crankcase without cooling water inlet screw connections, without studs for attaching clutch housing and only with one stud M 10×30 for attaching starter Supplied by DB without hollow screw on fuel feed pump, without fastening bracket for engine suspension front, without fan and without compensating washer for fan. The fan is attached to pulley. **Part No. 636 010 10 02** (see Figure on page 29) The first engines with type designation 636.912 have a cylinder crankcase with 73.5 mm bore, the filler pipe at the left on the cylinder crankcase and another tappet chamber lining. Cylinder head is for 2 cylinder head caps, the pressure lines from injection pump to nozzle holder are therefore different (refer to illustration page 30).	PES 4 A 50 C 410 RS 1010 004 074 43 01 (636 070 34 01) (P)		*	*	*	*				
The different HP-value, full load max. speed and no load max. speed with the same type of injection pump and governor is obtained by adjusting the throttle butterfly (see Job No. 00-12).																	
636.932	–	OM 636.VI–E	Output and speed are adapted to the respective requirements by adjusting the stop of the throttle butterfly at the throttle duct. Output and speed adjusted in the plant are indicated on the model plate of the engine.	plus 12% of the full load max. speed	As power unit for machinery, boats, generator and ship units (producing plant: Berlin-Marienfelde)		Flywheel 278 mm dia. A spacer ring is mounted between the cylinder crankcase and a holding rail for the generator Supplied by DB plant Untertürkheim without exhaust manifold, without fastening bracket for engine suspension, front, without cooling water outlet pipe, without fuel overflow lines, without fan and compensating washer for fan, supplied to DB plant Marienfelde. Supplied by DB plant Marienfelde in part also with revolution counter drive, connection at camshaft of injection pump, rear (refer to Fig. 01-12/2). **Part No. 636 010 68 00** (Engines in which individual parts [for example, test crankshafts] have been tested according to special specifications of purchaser are part No. 636 010 76 00).	PES 4 A 50 C 410 RS 1010 z 004 074 44 01 (636 070 35 01) (P)	28–29								
636.933	–		Output and full load max. speed depending on intended use and injection pump installed, see data on the model plate of the engine.	plus 3 to 5% of the full load max. speed			Flange duct, because injection pump with centrifugal governor | Flywheel 278 mm dia. Oil relief valve short type with oil line from cylinder crankcase to filter in two parts A 20 mm high shim is mounted between control housing cover and fuel main filter A spacer ring is mounted between cylinder crankcase and holding rail for generator Closing cap of control housing cover with connection and sealing ring, and a carrier with tongue for driving a speedometer mounted to drive shaft for injection pump (refer to Fig. 01-12/1). Supplied by DB plant Untertürkheim without injection pump, without exhaust manifold, without fastening bracket for engine suspension, front, without cooling water outlet pipe, without fuel overflow line, without fan and compensating washer for fan supplied to DB plant Berlin-Marienfelde. Plant Berlin-Marienfelde will fit injection pump with centrifugal governor matching purpose (refer to Job No. 07-2 "List of injection pumps with governor and feed pump installed up to now", page 07-2/11 and 07-2/12). **Part No. 636 010 69 00** (Engines in which individual parts [for example, test crankshafts] have been tested according to special specifications of purchaser are part No. 636 010 77 00)	Version of injection pump depending on the intended use see table of injection pumps Job-No. 07–2, Page 07–2/14						*	*	*	*

* means: the same as standard engine

Type Designation	Model	Engine Output HP at rpm	Full Load Max. Speed and/or Beginning of Governing rpm	No Load Max. Speed and/or End of Governing rpm	Intended Use	Deviations from Standard Engine and Part No. of Complete Engine	Injection Pump Bosch Designation DB-Part No. (P) = Pneumatic Governor (C)=Centrifugal Governor	Full Load Injection Quantity cm³/1000 strokes	Capacities in litres							
									Oil				Water			
									Engine without Oil Filter max.	Engine without Oil Filter min.	Oil Filter approx.	Total Oil Capacity	Engine approx.	Radiator	Heater	Total Water Capacity
636.935	OM 636..VI-E	43/3500	3500	3850–4000	For installation in other makes for export	Similar to 636.934 Vehicle engine of model L/O 319 but with different studs for starter and generator attachment, bracket for generator similar to basic engine Oil pan 4.75 litres and different shape, pertinent oil pump with different intake pipe and without holder for intake pipe Oil filter vertical and without oil pressure switch Tappet chamber cover similar to basic engine without shielding plate Instead of oil bath air filter 001 094 09 02 an oil bath damping filter 002 094 56 02 Intake line: Location and direction of air intake in center of intake line vertically from above Exhaust manifold: Exhaust gas outlet downwards a = 74 mm, b = 147 mm (refer to Fig. 14-8/1) Starter similar to basic engine EJD 1.8/12 R 70 With holder for return spring control on cooling water outlet pipe With closing plug on heater connection without holder for cable pull glow plug switch Separately supplied by DB: 1 three-element steep-drop governor for generator RS/UA 160/12/15 **Part No. 636 010 99 00**	PES 4 A 50 C 410 RS 1010 005 074 39 01 (636 070 47 01) (P)	29–30	4.75	2.75	0.50	5.25	*	*	*	*
636.936		Output and full load max. speed depending on intended use and installed injection pump, see specifications on model plate of engine		plus 3–5% of the full load max. speed	As power unit for Machinery, Boats, Generator and Marine Sets (Producing Plant: Berlin-Marienfelde)	Flywheel 278 mm dia. | Injection pump with centr. gov. | Oil filter vertical Short oil relief valve and oil line with connection for second line from cyl. crankcase to oil filter. Water pump with 17 mm shaft dia. and self-lubricating ball bearing As from engine 636.936 000 251 a timing housing cover with collar (a refer to Fig. 01-16/2) and an adaptor (6) with oil deflector plate (2) (refer to Fig. 03-1/1) Closing cap of timing housing cover with connection and sealing ring, and a carrier with lug for driving a revolution counter mounted to drive shaft for injection pump (refer to Fig. 01-12/1) Supplied by DB Untertürkheim without injection pump, without flange connection or throttle duct, without vacuum line, without vent pipe, and pipe holder on cylinder crankcase, without fastening bracket and without long stud for attaching fastening bracket for engine suspension front, without pulley on crankshaft, without grooved ball bearing and lock ring in crankshaft for drive shaft gearing, without fuel overflow lines from fuel main filter to T-piece and from T-piece to connection for fuel return line, without generator and generator bracket, without exhaust manifold, without pulley for water pump of 17 mm shaft dia., without cooling water drain pipe, without V-belts without fan and compensating washer for fan to DB plant Marienfelde. Up to engine No. 636.936-000 751 the engines ex Untertürkheim were supplied to DB Marienfelde also without fuel main filter, without fuel hoses from fuel feed pump to fuel main filter and from fuel main filter to injection pump, without oil filter, without oil line or second line from connecting line cylinder crankcase to oil filter. At Berlin-Marienfelde an injection pump with centrifugal governor for the respective purpose will be installed (refer to Job No. 07-2 "List of Injection Pumps with Governor and Feed Pump installed up to now" page 07-2/11 and 07-2/12). **Part. No. 636 010 96 00**	PES 4 A 50 B 410 RS 68 036 074 01 02 (F)	24.5–25.5	*	*	Not known since engine is supplied ex U.T. or Düsseldorf factory without oil filter					
636.937		Output and speed are adapted to the resp. requirements by adjusting stop of throttle butterfly at the throttle duct. Output and speed adjusted in the factory are indicated on the engine model plate		plus 12% of the full load max. speed		Different studs for clutch housing and oil pan attachment without vent pipe 636 010 05 70 and pipe holder Flywheel 278 mm dia. Part No. 636 030 09 05 Different oil lines to oil filter, oil filter vertical Water pump shaft dia. 15 mm with pressed on pulley With vent pipe 636 200 01 58 from cylinder head to cooling water drain pipe With fan bracket and pulley, narrow V-belts 9.5×750 With cooling water thermostat Supplied by DB Untertürkheim without fuel overflow line from connection to filter, without exhaust manifold, without generator, without cooling water drain pipe. **Part No. 636 010 09 02**	PES 4 A 50 C 410 RS 1010z 004 074 44 01 (636 070 35 01) (P)	28–29	*	*	*	*	*	*	*	*
636.938		Output and full load max. speed depending on intended use and installed injection pump, see specifications on model plate		plus 3 to 5 % of the full load max. speed		Flywheel 278 mm dia. | Flange connection for injection pump with centrifugal governor | Prechambers 636 010 05 52 without insert pin Oil pan 636 010 28 13, oil capacity 20 litres and different shape, with pertinent oil pump 636 180 22 01 with different intake pipe and oil dipstick 636 010 24 72 without vent pipe and pipe holder Upright oil main filter and an additional by-pass filter 001 184 20 01 Short oil relief valve, pertinent oil lines and a nozzle of 1.5 mm dia. in hollow screw on filter to restrict oil volume Water pump with self-lubricating ball bearings and without pulley Two-piece pulley and adaptor on crankshaft, pertinent control housing cover with collar Different studs for clutch housing and oil pan attachment A 20 mm high shim between timing housing cover and fuel main filter Closing cap of timing housing cover with connection and sealing ring, on drive shaft for injection pump one carrier with lug for driving a revolution counter (refer to Fig. 01-12/1) Supplied by DB ex Untertürkheim without injection pump, without throttle duct or flange connection, without oil pan, without oil pump, without water pump, without pulley on crankshaft, without grooved ball bearing and lock ring in crankshaft, without generator, without exhaust manifold **Part No. 636 010 13 02**	PES 4 A 50 C 410 RS 1010 005 074 41 01 (F)	29–30	Not known since engine is supplied ex U.T. or Düsseldorf factory without oil filter							
636.939		Output and speed are adapted to the resp. requirements by adjusting stop of throttle butterfly at the throttle duct. Output and speed adjusted in the factory are indicated on the engine model plate		plus 12% of the full load max. speed		Similar to 636.937, but with outlet 636 010 04 64 to vent housing | Injection pump with angle piece 636 074 02 40 for cable pull With oil pan 636 010 28 13, oil capacity 20 litres and different shape, pertinent oil pump 636 180 22 01 with different intake pipe and oil dipstick 636 010 24 72 Upright oil main filter and an additional by-pass filter 001 184 20 01, different oil lines to oil filter Supplied by DB ex Untertürkheim without injection pump, without fuel filter, without oil pan, without oil pump, without water pump, without generator. **Part No. 636 010 13 02**	PES 4 A 50 C 410 RS 1026 005 074 11 01 (036 070 05 01) (P) with oil lubrication from engine	28–29								
636.940		Output and full load max. speed depending on intended use and installed injection pump, see specifications on model plate of engine		plus 3–5% of the full load max. speed		With vent pipe 636 200 01 58 from cylinder head to cooling water drain pipe | Flywheel 278 mm dia. With oil pan 636 010 28 13, oil capacity 20 litres and different shape, pertinent oil pump 636 180 22 01 with different intake pipe, oil dipstick 636 010 24 72 and a by-pass filter Short oil relief valve, pertinent oil lines and a nozzle of 1.5 mm dia. in hollow screw on filter to restrict oil volume Supplied by DB ex Untertürkheim without injection pump, without flange or socket duct, without fuel filter, without overflow valve, without pulley on crankshaft, without grooved ball bearing and lock ring in crankshaft for drive shaft gearing, without oil pan, without vent pipe and pipe holder, without oil pump, without oil filter, without oil relief valve, without oil lines to oil filter, without generator, without exhaust manifold, without water pump, without fan. **Part No. 636 010 16 02**	PES 4 A 50 C 410 RS 1025 005 074 10 01 (036 070 04 01) (F) with oil lubrication from engine	29–30								

* means: the same as standard engine

B. Engines with Former Collective Type Designation

Type No.	Version	Model No.	Engine Output HP at rpm	Full Load Max. Speed and/or Beginning of Governing rpm	No Load Max. Speed and/or End of Governing rpm	Intended Use	Deviations from Standard Engine (Part No. of Engines with the Type Designation 636.917/0 Version A through Z 636 010 19 00)	Injection Pump Bosch Designation DB-Part No. (P) = Pneumatic Governor (C) = Centrifugal Governor	Full Load Injection Quantity cm³/1000 strokes	Capacities in lit. Oil: Engine without Oil Filter max.	Oil: Engine without Oil Filter min.	Oil: Oil Filter app.	Oil: Total Oil Capacity	Water: Engine app.	Water: Radiator	Water: Heater	Water: Total Water Capacity
636.917/0	A	OM 636.VI–E	34/3000	3000	3300–3400	As power unit for machinery	Water pump: shaft dia. 15 mm Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar Belt pulley and fixing screw of belt pulley on the crankshaft (see Figure 03-1/3)	PES 4 A 50 B 410 RS 68 000 074 33 02 (P)	24.5–25.5	*	*	*	*	*	*	*	*
	B		34/3000	3000	3300–3400	Combines	Dust-proof generator LJ/GEH 90/12-2300 R 15 | Water pump: shaft dia. 15 mm Exhaust manifold: exhaust gas exit in the rear downwards a = 74 mm, b = 147 mm (see Figure 14-8/1) Suction line: Location and direction of air inlet in the middle of suction line vertically from above Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar Belt pulley and fixing screw of belt pulley on the crankshaft (see Figure 03-1/1) Separately supplied are one regulator cutout Bosch RSUA 90/12/4 for generator and 6-blade fan 384 mm in dia.								
	C		32.5/2850	2850	3100–3250		Water pump: shaft dia. 15 mm Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar Belt pulley and fixing screw of belt pulley on the crankshaft (see Figure 03-1/3)	PES 4 A 50 B 410 RS 50 000 074 69 02 (P)	29–30								
	D		34/3000	3000	3100–3150		Water pump: shaft dia. 15 mm, as replacement install water pump with 17 mm shaft dia. similar to standard engine Exhaust manifold: exhaust gas exit in front downwards a = 117 mm, b = 96.5 mm (see Figure 14-8/1) Oil relief valve short version and two-piece oil line between crankcase and oil filter Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar Belt pulley and fixing screw of belt pulley on the crankshaft (see Figure 03-1/3) Supplied by DB without throttle or flange duct, without annular ball-bearing and locking ring in the crankshaft. Separately supplied was one 6-blade fan 384 mm in dia.	PES 4 A 50 B 410 RS 50 000 074 98 02 (C)								
	E		32/2800	2800	2880–2940		Flange nipple, because injection pump with centrifugal governor | Flywheel 278 mm dia. Water pump: shaft dia. 15 mm, when replacing install water pump with shaft dia. 17 mm as in basic engine Exhaust manifold: Exhaust gas exit in front downwards, a = 117 mm, b = 96.5 mm (see Figure 14-8/1) Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar Belt pulley and fixing screws of the belt pulley on the crankshaft (see Figure 03-1/3) Fan, 6-blade, 384 mm dia. was delivered separately	PES 4 A 50 B 410 RS 50 002 074 76 01 (C)								
	F		34/3000	3000	3300–3400		Water pump: shaft dia. 15 mm with pressed-on short belt pulley (see Figure 20-8/8) Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar Belt pulley and fixing screw of belt pulley on the crankshaft (see Figure 03-1/3) Separately supplied was one 6-blade fan 384 mm in dia.	PES 4 A 50 B 410 RS 68 000 074 33 02 (P)	24.5–25.5								
	G		30/2500	2500	2750–2900	Fork lifts	Flywheel 278 mm in dia. Water pump: shaft dia. 15 mm with pressed-on short belt pulley (see Figure 20-8/8) Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar Belt pulley and fixing screw of belt pulley on the crankshaft (see Figure 03-1/1) Separately supplied was one 6-blade fan 384 mm in dia.								
	H						Water pump: shaft dia. 15 mm | Flywheel 278 mm in dia. Exhaust manifold: exhaust gas exit in the rear downwards a = 74 mm, b = 147 mm (see Figure 14-8/1) Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar Belt pulley and fixing screw of belt pulley on the crankshaft (see Figure 03-1/3)								
	J						Water pump: shaft dia. 15 mm Flywheel for hydraulic clutch was supplied by customer to DB for assembly Exhaust manifold: exhaust gas exit in the rear downwards a = 74 mm, b = 147 mm (see Figure 14-8/1) Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar Belt pulley and fixing screw of belt pulley on the crankshaft (see Figure 03-1/3)								
	K		30/2500	2500	2750–2900		Flywheel 278 mm in dia. Water pump: shaft dia. 15 mm with short pressed-on belt pulley (see Figure 20-8/8) Separately supplied was one 6-blade pressure fan 380 mm in dia.								
	L		30/2500	2500	2750–2900		Water pump: shaft dia. 15 mm | Flywheel 278 mm in dia. Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar Belt pulley and fixing screw of belt pulley on the crankshaft (see Figure 03-1/3) Exhaust manifold: exhaust gas exit in the rear downwards a = 74 mm, b = 147 mm (see Figure 14-8/1) Separately supplied was one pressure fan, 6-blade, 380 mm in dia.								
	M						Water pump: shaft dia. 15 mm Flywheel for hydraulic clutch was supplied by the customer to DB for assembly Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar Belt pulley and fixing screw of the belt pulley on the crankshaft (see Figure 03-1/3) Exhaust manifold: exhaust gas exit in the rear downwards a = 74 mm, b = 147 mm (see Figure 14-8/1) Separately supplied was one 6-blade pressure fan 380 mm in dia.								

* means the same as standard engine

Type No.	Version	Model No.	Engine Output HP at rpm	Full Load Max. Speed and/or Beginning of Governing rpm	No Load Max. Speed and/or End of Governing rpm	Intended Use	Deviations from Standard Engine (Part No. of the Engines with the Type Designation 636.917/0 Version A through Z 636 010 19 00)	Injection Pump Bosch Designation DB-Part No. (P) = Pneumatic Governor (C) = Centrifugal Governor	Full Load Injection Quantity cm³/1000 strokes	Capacities in lit.							
										Oil				Water			
										Engine without Oil Filter max.	Engine without Oil Filter min.	Oil Filter app.	Total Oil Capacity	Engine app.	Radiator	Heater	Total Water Capacity
636.917/0	N	OM 636.VI–E	25/2000	2000	2250–2400	Fork lifts	Water pump: shaft dia. 15 mm | Flywheel 278 mm in dia. Belt pulley with spacer on the crankshaft in two pieces, also timing housing cover with collar Belt pulley and fixing screw of belt pulley on the crankshaft (see Figure 03–1/3) Exhaust manifold: exhaust gas exit in rear downwards a = 74 mm, b = 147 mm (see Figure 14–8/1) Separately supplied was a four-blade blower 380 mm in dia.	PES 4 A 50 B 410 RS 68 000 074 33 02 (P)	24.5–25.5	*	*	*	*	*	*	*	*
	O		25/2000	2000	2250–2400		Water pump: shaft dia. 15 mm | Flywheel 278 mm in dia. Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar Belt pulley and fixing screw of belt pulley on the crankshaft (see Figure 03–1/3) Exhaust manifold: exhaust gas exit in front downwards a = 117 mm, b = 96.5 mm (see Figure 14–8/1) Separately supplied was a four-blade blower 380 mm in dia.									
	P		34/3000	3000	3300–3400		Water pump: shaft dia. 15 mm Flywheel for hydraulic clutch was supplied by customer to DB for assembly Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar Belt pulley and fixing screw of belt pulley on the crankshaft (see Figure 03–1/3) Exhaust manifold: exhaust exit in the rear downwards a = 74 mm, b = 147 mm (see Figure 14–8/1) Separately supplied was a four-blade blower 380 mm in dia.									
	Q		25/2000	2000	2250–2400	Plant sprayers	Water pump: shaft dia. 15 mm | With operating time indicator Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar Belt pulley and fixing screw of belt pulley on the crankshaft (see Figure 03–1/3) Exhaust manifold: exhaust gas exit in the middle downwards a = 145 mm, b = 0 mm (see Figure 14–8/1)									
	R		25/2000	2000	2250–2400	Tractors	Water pump: shaft dia. 15 mm | Flywheel 278 mm in dia. Oil pan: capacity 4.0 lit. and different shape, also oil pump with different suction pipe Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar Belt pulley and fixing screw of belt pulley on the crankshaft (see Figure 03–1/3) Exhaust manifold: exhaust gas exit downwards and shifted 15.5 mm from the middle towards the rear, a = 180 mm, b = 15.5 mm (see Figure 14–8/1) Tappet housing cover with attached bell-crank lever and bearing with deflection lever for controlling (gas linkage) Cylinder head cover with oil filler in front right hand side and protecting cover without air vent filter Throttle duct: bell-crank and butterfly lever different | Vacuum line different shape, because connection at throttle duct outside Attached to oil pan: one holder for return spring and linkage to butterfly lever at throttle duct Suction line: Location and direction of air inlet in the middle of the suction line vertically from above			4.0	2.5	0.25	4.25	*	*	*	*
	S		34/3000	3000	3300–3400	Boat	Oil filter vertical Water pump: shaft dia. 15 mm | Flywheel 278 mm in dia. Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar Belt pulley and fixing screw of belt pulley on the crankshaft (see Figure 03–1/3) Supplied by DB without exhaust manifold			*	*	0.5	6.75				
	T		30/2500	2500	2750–2900	As power unit for machinery	Flywheel 278 mm in dia. | With oil bath air filter Water pump: shaft dia. 15 mm with pressed-on short belt pulley (see Figure 20–8/8) Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar Belt pulley and fixing screw of belt pulley on the crankshaft (see Figure 03–1/3) Exhaust manifold: exhaust gas exit in the rear downwards a = 74 mm, b = 147 mm (see Figure 14–8/1)									
	U		30/2500	2500	2750–2900		Water pump: shaft dia. 15 mm Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar Belt pulley and fixing screw of belt pulley on the crankshaft (see Figure 03–1/3)									
	V		34/3000	3000	3300–3400		Water pump: shaft dia. 15 mm Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar Belt pulley and fixing screw of belt pulley on the crankshaft (see Figure 03–1/3) Separately supplied was one 4-blade blower 380 mm in dia.									
	W		30/2500	2500	2750–2900		Water pump: shaft dia. 15 mm Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar Belt pulley and fixing screw of belt pulley on the crankshaft (see Figure 03–1/3)			*	*	*	*				
	X		30/2500	2500	2750–2900	Tractors	Water pump: shaft dia. 15 mm Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar Belt pulley and fixing screw of belt pulley on the crankshaft (see Figure 03–1/3)									
	Y		30.5/2600	2600	2850–2950	Plant sprayers	Water pump: shaft dia. 15 mm Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar Belt pulley and fixing screw of belt pulley on the crankshaft (see Figure 03–1/3)									
	Z		25/2000	2000	2250–2400	As power unit for machinery	Water pump: shaft dia. 15 mm Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar Belt pulley and fixing screw of belt pulley on the crankshaft (see Figure 03–1/3)									

* means: the same as standard engine

Type No. present	Type No. before	Model No.	Engine Output HP at rpm	Full Load Max. Speed and/or Beginning of Governing rpm	No Load Max. Speed and/or End of Governing rpm	Intended Use	Deviations from Standard Engine and Part No. of complete Engine	Injection Pump Bosch Designation DB-Part No. (P) = Pneumatic Governor (C) = Centrifugal Governor	Full Load Injection Quantity cm³/1000 strokes	Capacities in lit. Oil: Engine without Oil Filter max.	Oil: Engine without Oil Filter min.	Oil: Oil Filter app.	Oil: Total Oil Capacity	Water: Engine app.	Water: Radiator	Water: Heater	Water: Total Water Capacity
636.915	–	OM 636.I	38/3200	3200	3550–3650	170 D	Cylinder crankcase with 73.5 mm cylinder bore, oil filler on left-hand side, different tappet chamber housing and one fixing stud M 10×52 and three fixing studs M 12×42 to fix the clutch housing Oil filler pipe in crankcase with air vent pipe, air vent pipe for tropics with straining sieve Cylinder head for 2 cylinder head covers, therefore different pressure lines between injection pump and nozzle holders Wet air filter and intake noise silencer, for tropics oil bath air filter Generator RJH 130/12-2000 R 1, lately used is the generator of the standard engine Oil pan: capacity 4.0 lit. and different shape, oil pump with different suction pipe Belt pulley and spacer on the crankshaft in two parts, the timing housing cover with collar Belt pulley and mounting of pulley on the crankshaft (see Figure 03–1/1) Throttle duct: bell-crank and butterfly levers different | Vacuum line different form, because connector on throttle duct outside One additional fuel line from fuel feed pump (suction end) to fixing plate at injection pump Exhaust manifold: exhaust gas exit in the rear downwards a = 150 mm, b = 195 mm (see Figure 14-8/1) Water pump: shaft dia. 15 mm and 191 mm long, different belt pulley and water pump with lubricating nipple **Part No. 636 010 02 00** (see Figure Page 30)	PES 4 A 50 B 410 RS 17 000 074 83 01 (P)	27.5–28.5	4.0	2.5	0.25	4.25	4.0	4.7	0.3	9.0
636.916	–	OM 636.VI	40/3200	3200	3550–3650	170 D a and 170 D b	Water pump: shaft dia. 15 mm | Wet air filter and intake noise silencer, for tropics oil bath air filter Cylinder head cover with oil filler at front right-hand side and protecting cover without air vent filter The first engines with the type No. 636.916 were manufactured with oil filler at left-hand side of crankcase, a cylinder head for 2 cylinder head covers and corresponding pressure lines etc. similar to the engines 636.915 but with a cylinder bore of 75 mm Throttle duct: different bell-crank and butterfly levers | Vacuum line different shape, because connector at throttle duct outside Mounted at cooling water outlet pipe one holder for return spring of bell-crank lever at throttle duct (see Figure Page 31) One additional fuel line from fuel feed pump (suction end) to the fixing plate at injection pump Oil pan: capacity 4.0 lit. and different shape, the oil pump with different suction pipe Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar Belt pulley and mounting of pulley on the crankshaft (see Figure 03–1/1) **Part No. 636 010 06 00** (see Figure Page 31)	PES 4 A 50 B 410 RS 50 000 074 10 02 (P) PS 4 A 50 B 410 RS 68 000 074 32 02 (P) (for elevations of more than 2000 m above sea level)	29–30 24.5–25.5								
636.918	–	OM 636.VI	40/3200	3200	3550–3650	170 DS	Water pump: shaft dia. 15 mm | Wet air filter and intake noise silencer, for tropics oil bath air filter Cylinder head cover with oil filler at front right-hand side and protecting cover without air vent filter Throttle duct: bell-crank and butterfly levers different | Suction line different shape, because connector at throttle duct outside Mounted at cooling water outlet pipe: one holder for return spring of bell-crank lever at throttle duct (see Figure Page 31) One additional fuel line from fuel feed pump (suction end) to fixing plate at injection pump (see Figure Page 32) The drip-fuel line, the T-section and the rear fuel by-pass line are different Oil pan: capacity 4.0 lit. and different shape, the oil pump with different suction pipe Belt pulley and spacer on crankshaft in two pieces the timing housing cover with collar Belt pulley and mounting of pulley on the crankshaft (see Figure 03–1/1) Starter EJD 1,8/12 R 56 (magnetic switch at bottom) Exhaust manifold: exhaust gas exit in the rear downwards and from the middle shifted to the rear by 15.5 mm, a = 180 mm, b = 15.5 mm (see Fig. 14-8/1) Cooling water outlet duct: connection for remote thermometer plugged and to the rear similar to connection for heating In crankcase: 3 fixing studs M 10×42 and 1 fixing stud M 10×52 to fix the clutch housing **Part No. 636 010 10 00** (see Figure Page 32)	PES 4 A 50 B 410 RS 50 000 074 84 02 (P) PS 4 A 50 B 410 RS 68 000 074 34 02 (P) (for elevations of more than 2000 m above sea level)	29–30 24.5–25.5					4.0	5.0	1.1	10.1
636.919	–	OM 636.VII	40/3500	3500	3850–4000	L 319 D	With fan bearing bracket | Water pump: shaft dia. 15 mm with pressed-on hub and screwed-on short belt pulley Starter EJD 1,8/12 R 82 | Generator LJ/GEG 16/12-2500 R 10 with pulley for narrow V-belt Oil filter vertical with oil pressure switch and oil line | Oil bath air filter with suction hose and connector Fan 4-blade, 430 mm in dia. without spacer washer | Narrow V-belt 9.5×750 and 9.5×1225 N 275 Support of generator shaped differently and rubber suspension of generator with ground cable, two-piece mounting bar Crankcase: 1 fixing stud M 10×100 and 1 fixing stud M 10×30 for mounting of starter In the oil dipstick hole at the crankcase is a split pin with washer and sealing ring Oil pan: Capacity 3.6 lit. of oil, guide sleeve for oil dipstick, different shape, further oil pump with different suction pipe and suction pipe holder Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar Double belt pulley and mounting of the pulley on the crankshaft (see Figure 03–1/2) Fixing screw with timing needle for top dead center and feed beginning (see Figure 00–6/1) Engine support for front engine suspension screwed to timing housing cover (see Figure Page 33) Attached at the left hand side of the oil pan is a holder for the return spring actuating the clutch (only at vehicles with left-hand steering) Tappet housing cover with screening plate against the heat radiation of the exhaust manifold Cylinder head cover with oil filler front at right-hand side and protecting cover without air vent filter Crankcase air vent tilted to the rear approx. 45 deg and installed on top (see Figure 33) At injection pump a holder for attaching of start and stop cable control Drip-oil line with ring and T-section directly connected to the fuel filter and not via the fuel by-pass line Throttle duct: bell-crank and butterfly levers different | Suction line different shape, because connector at throttle duct outside Suction line furnished with tapped connector (connection to ATE braking device) Exhaust manifold: exhaust gas exit in the rear downwards, a = 54 mm, b = 215.5 or 221.5 mm (see Figure 14-8/1) Cooling water outlet duct: connection for heating in the front, connection for remote thermometer vertically upwards **Part No. 636 010 63 00** (see Figure Page 33) At the engines for vehicles with right-hand steering are additionally mounted: one fuel return line and one fuel supply line at the fuel feed pump (suction end). Not attached at the oil pan is the holder for the return spring actuating the clutch. (Part No. 636 010 61 00 for engines of vehicles with right-hand steering)	for left-hand steering PES 4 A 50 B 410 RS 144 000 074 61 01 (P) (for right-hand-steering 002 074 09 01) for left-hand steering PES 4 A 50 B 410 RS 144 z 002 074 07 01) (P) (for right-hand-steering 002 074 15 01) (for elevations over 2000 m above sea level)	29–30 24.5–25.5	3.6	2.5	0.5	4.1	4.0	2.4	1.1	7.5

* means: the same as standard engine

Type No. present	Type No. before	Model No.	Engine Output HP at rpm	Full Load Max. Speed and/or Beginning of Governing rpm	No Load Max. Speed and/or End of Governing rpm	Intended Use	Deviations from Standard Engine and Part No. of complete Engine	Injection Pump Bosch Designation DB-Part No. (P) = Pneumatic Governor (C) = Centrifugal Governor	Full Load Injection Quantity cm³/1000 strokes	Capacities in lit. Oil: Engine without Oil Filter max.	Oil: Engine without Oil Filter min.	Oil: Oil Filter app.	Oil: Total Oil Capacity	Water: Engine app.	Water: Radiator	Water: Heater	Water: Total Water Capacity
636.930	–	OM 636.VII	43/3500	3500	3850–4000	180 D	Oil filter vertical; Water pump: shaft dia. 15 mm with pressed-on hub and short screwed-on belt pulley With fan bearing bracket; Narrow V-belt 9.5 × 750 and 9.5 × 1225 N 275 With injection timing device; Protecting cover of timing housing cover With wet air filter and intake noise silencer; Cylinder head with air vent hole (see Figure 01–3/4) Starter Bosch EJD 1,8/12 R 70; Generator Bosch LJ/GEG 16/12-2500 R 10 with belt pulley for narrow V-belt Rubber suspension of generator with ground cable and two-piece mounting bar (see Figure 15–11/2) Crankcase with one fixing stud M 10 × 75 and one M 10 × 30 to fix the starter and two fixing studs M 10 × 30 to fix the support of the generator Belt pulley and spacer on the crankshaft in two pieces, the timing housing cover with collar Double belt pulley and mounting of pulley on the crankshaft (see Figure 03–1/2) Fixing screw with timing needle for top dead center and feed beginning (see Figure 03–1/2) Engine support for engine front suspension screwed on to timing housing cover (see Figure Page 34) A 20 mm high spacer installed between timing housing cover and fuel main filter Oil pan: Capacity 4.0 lit. and different shape, the oil pump with different suction pipe Mounted at the oil pan: one holder for return spring and linkage to throttle lever at throttle duct Tappet housing cover with installed bell-crank lever and bearing with deflection lever for controlling (gas linkage) Cylinder head cover with oil filler in the front right-hand side and protecting cover with air vent filter Ventilation of crankcase vertical with air vent pipe installed upwards to the airfilter Cooling water outlet duct: pipe connector for heating, different air vent pipe from cylinder head to cooling water outlet duct Exhaust manifold: exhaust gas exit in the middle downwards, a = 145 mm, b = 0 mm (see Figure 14–8/1) Intake manifold: location and direction of air inlet in the middle of the intake manifold vertically from above Throttle duct: different bell-crank and throttle levers; Vacuum line different shape, because connection at throttle duct outside Additional fuel line (Part No. 636 070 37 32) connected to the fuel feed pump (suction end) Fuel by-pass line from T-section to filter and from adapter to filter, different by-pass valve, fuel leakage line, T-section holder at timing housing cover (Part No. 636 010 02 40) and vacuum line 4-blade fan 400 mm in dia. mounted at fan bearing bracket **Part No. 636 010 53 00** (see Figure Page 34) (Part No. of engines for tropics with oil bath air filter 636 010 54 00) (Part No. of engines with 300 watt generator 636 010 70 00)	PES 4 A 50 B 410 RS 144 002 074 01 01 (P)	29–30	4.0	2.5	0.5	4.5	4.0	3.5	1.1	8.6
								PES 4 A 50 B 410 RS 144 z 002 074 02 01 (P) (for elevations of more than 2000 m above sea level)	24.5–25.5								
636.931	–	OM 636.VIII	40/3200	3200	3550–3650	170 SD	Similar to 636.918 but without the additional fuel line connected the fuel feed pump (suction end) **Part No. 636 010 26 00** (Engines with vertically installed oil filter Part No. 636 010 31 00)	PES 4 A 50 B 410 RS 50 000 074 84 02 (P)	29–30	4.0	2.5	0.25	4.25	4.0	5.0	1.1	10.1
								PES 4 A 50 B 410 RS 68 001 074 37 01 (P) (for elevations of more than 2000 m above sea level)	24.5–25.5								
636.934	–	OM 636.VII	43/3500	3500	3850–4000	O 319 D	Similar to 636.919 but with injection timing device, different protecting cover at the timing housing cover and a 20 mm thick spacer installed between the timing housing cover and the fuel filter **Part No. 636 010 52 00** (see Figure Page 33) (Part No. 636 010 62 00 for engines of vehicles with right-hand steering)	for left-hand steering PES 4 A 50 B 410 RS 144 001 074 61 01 (P) (for right-hand steering 002 074 09 01)	29–30	3.6	2.5	0.5	4.1	4.0	2.4	1.7	8.1
								for left-hand steering PES 4 A 50 B 410 RS 144 z 002 074 07 01 (P) (for right-hand steering 002 074 15 01) (for elevations of more than 2000 m above sea level)	24.5–25.5								

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