



**EMISSION EQUIPMENT
AND
TUNE UP SPECIFICATIONS
1968-1988, ALL MODELS**

PORSCHE CARS NORTH AMERICA

SERVICE INFORMATION

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BASIC EMISSION EQUIPMENT AND TUNE-UP SPECIFICATIONS

911

MODEL YEAR	1968	1969-T	1969-E
Fuel System	Carb. Weber 40IDTP3C	Carb. Weber 40IDTP3C	Bosch Mech. Fuel Inj.
Sec. Air Pump	Yes	No	No
Throttle Compensator	Yes	Yes	No
Ignition Distributor Vacuum Unit	Yes	No	No
Diverter Valve	Yes	No	No
Spark Plugs	W250P21	W225T30	W265P21
Spark Plug Gap	0.35 mm	0.6 mm	0.55 mm
Ignition Distributor	Bosch 0231.159.001	Marelli S112AX	Bosch 0.231.159.006
Dwell Angle	38° ± 3°	40° ± 3°	38° ± 3°
Ignition Timing	30° BTDC/6000	35° BTDC/6000	30° BTDC/6000
Idle RPM	900 ± 50	900 ± 50	900 ± 50
CO %	4.5 Sec. air pump disc.	3.5 ± 0.5 Sec. Air pump disc.	3.5 ± 0.5 at idle
Exhaust System	Regular	Regular	Regular
Engine Code No.	901/14,901/17	901/17,901/19	901/09,901/11
Valve Adj. (Cold)			
Int./Ext.	0.1mm (.004 in.)	0.1mm (.004 in.)	0.1mm (.004 in.)

BASIC EMISSION EQUIPMENT AND TUNE-UP SPECIFICATIONS

911

MODEL YEAR	1969-S	1970/71-T	1970/71-E
Fuel System	Bosch Mech. Fuel Inj.	Carb. Zenith 40 TIN	Bosch Mech. Fuel Inj.
Sec. Air Pump	No	No	No
Throttle Compensator	No	No	No
Ignition Distributor Vacuum Unit	No	No	No
Diverter Valve	No	No	No
Spark Plugs	W265P21	W225T30	W265P21
Spark Plug Gap	0.55 mm	0.6 mm	0.55 mm
Ignition Distributor	Bosch 0.231.159.007	Bosch 0.231.159.008	Bosch 0.231.159.006
Dwell Angle	38° ± 3°	40° ± 3°	38° ± 3°
Ignition Timing	30° BTDC/6000	35° BTDC/6000	30° BTDC/6000
Idle RPM	900 ± 50	900 ± 50	900 ± 50
CO %	3.5 ± 0.5 at idle	3.5 ± 0.5	3.0 ± 0.5 at idle
Exhaust System	Regular	Regular	Regular
Engine Code No.	901/10	911/07,911/08	911/01,911/04
Valve Adj. (Cold)			
Int./Ext.	0.1mm (.004 in.)	0.1mm (.004 in.)	0.1mm (.004 in.)

BASIC EMISSION EQUIPMENT AND TUNE-UP SPECIFICATIONS

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911

MODEL YEAR	1970/71-S	1972-T	1972-E
Fuel System	Bosch Mech. Fuel Inj.	Bosch Mech. Fuel Inj.	Bosch Mech. Fuel Inj.
Sec. Air Pump	No	No	No
Throttle Compensator	No	No	No
Ignition Distributor Vacuum Unit	No	Yes	Yes
Diverter Valve	No	No	No
Spark Plugs	W265P21	W265P21	W265P21
Spark Plug Gap	0.55 mm	0.6 mm	0.55 mm
Ignition Distributor	Bosch 0.231.159.007	Bosch 0.231.169.003	Bosch 0.231.169.004
Dwell Angle	38° ± 3°	38° ± 3°	38° ± 3°
Ignition Timing	30° BTDC/6000	5° ATDC	5° ATDC
Idle RPM	900 ± 50	900 ± 50	900 ± 50
CO %	3.0 ± 0.5 at idle	1.5-2.0 at idle	2.0-2.5 at idle
Exhaust System	Regular	Regular	Regular
Engine Code No.	911/02	911/51,911/61	911/52,911/62
Valve Adj. (Cold)			
Int./Ext.	0.1mm (.004 in.)	0.1mm (.004 in.)	0.1mm (.004 in.)

BASIC EMISSION EQUIPMENT AND TUNE-UP SPECIFICATIONS

911

MODEL YEAR	1972-S	1973-T	1973-E
Fuel System	Bosch Mech. Fuel Inj.	First half production Mech. Fuel Inj., Second half, CIS Fuel Inj.	Bosch Mech. Fuel Inj.
Sec. Air Pump	No	No	No
Throttle Compensator	No	Decel valve for CIS Fuel Inj.	No
Ignition Distributor Vacuum Unit	Yes	Yes	Yes
Diverter Valve	No	No	No
Spark Plugs	W265P21	W235P21	W265P21
Spark Plug Gap	0.55 mm	0.6 mm	0.55 mm
Ignition Distributor	Bosch 0.231.169.005	Bosch	Bosch
Dwell Angle	38° ± 3°	38° ± 3°	38° ± 3°
Ignition Timing	5° ATDC	5° ATDC	5° ATDC
Idle RPM	900 ± 50	900 ± 50	900 ± 50
CO %	2.0-2.5 at idle	1.5-2.0	2.5 ± 0.5
Exhaust System	Regular	Regular	Regular
Engine Code No.	911/53	911/51/91/92	911/52/62
Valve Adj. (Cold)			
Int./Ext.	0.1mm (.004 in.)	0.1mm (.004 in.)	0.1mm (.004 in.)

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BASIC EMISSION EQUIPMENT AND TUNE-UP SPECIFICATIONS

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MODEL YEAR	1973-S	1974	1974-S
Fuel System	Bosch Mech. Fuel Inj.	CIS Fuel Inj.	CIS Fuel Inj.
Sec. Air Pump	No	No	No
Throttle Compensator	No	Decel. Valve	Decel. Valve
Ignition Distributor	Yes	Yes	Yes
Vacuum Unit			
Diverter Valve	No	No	No
Spark Plugs	W265P21	W215P21	W235P21
Spark Plug Gap	0.55 mm	0.55 mm	0.55 mm
Ignition Distributor	Bosch	Bosch	Bosch
Dwell Angle	38° ± 3°	38° ± 3°	38° ± 3°
Ignition Timing	5° ATDC	5° ATDC	5° ATDC
Idle RPM	900 ± 50	900 ± 50	900 ± 50
CO %	2.5 ± 0.5	1.5 ± 0.5	1.5 ± 0.5
Exhaust System	Regular	Regular	Regular
Engine Code No.	911/53	911/92/97	911/93/98
Valve Adj. (Cold)			
Int./Ext.	0.1mm (.004 in.)	0.1mm (.004 in.)	0.1mm (.004 in.)

BASIC EMISSION EQUIPMENT AND TUNE-UP SPECIFICATIONS

911

MODEL YEAR	1975	1976	1977
Fuel System	CIS Fuel Inj.	CIS Fuel Inj.	CIS Fuel Inj.
Sec. Air Pump	Yes	Yes	Yes
Throttle Compensator	Decel. Valve	Decel. Valve	Decel. Valve
Ignition Distributor	Yes	Yes	Yes
Vacuum Unit			
Diverter Valve	No	No	No
Spark Plugs	W235P21	W235P21	W235P21
Spark Plug Gap	0.55 mm	0.55 mm	0.55 mm
Ignition Distributor	Bosch	Bosch	Bosch
Dwell Angle	38° ± 3°	38° ± 3°	38° ± 3°
Ignition Timing	5° ATDC	5° ATDC	TDC ± 2° 49 States 15° ± 2° ATDC Calif.
Idle RPM	900 ± 50	900 ± 50	950 ± 50 49ST 1000 ± 50 - Calif.
CO %	1.5-2.0 sec. air disc.	2.0-3.5 sec. air disc.	1.5-3.0 sec. air disc.
Exhaust System	49 States-Regular Calif.-Thermo reactors and EGR	49 States-Regular Calif.-Thermo reactors and EGR	EGR, Thermo reactors
Engine Code No.	49 States-911/43/48 Calif.-911/44/49	49 States-911/82/89 Calif.-911/84/89	9/11/85/90
Valve Adj. (Cold)			
Int./Ext.	0.1mm (.004 in.)	0.1mm (.004 in.)	0.1mm (.004 in.)

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BASIC EMISSION EQUIPMENT AND TUNE-UP SPECIFICATIONS

911

MODEL YEAR	1978/79, SC	1980-SC	1981/82/83-SC
Fuel System	CIS Fuel Inj.	CIS Fuel Inj.	CIS Fuel Inj.
Sec. Air Pump	Yes	No	No
Throttle Compensator	Decel. Valve	No	No
Ignition Distributor Vacuum Unit	Yes	Yes	Yes
Diverter Valve	No	No	No
Spark Plugs	W145T30	W225T30	W5D (225T30)
Spark Plug Gap	0.8 mm	0.8 mm	0.8 mm
Ignition Distributor	Bosch 0.237.306.001	Bosch 0.237.304.016	Bosch 0.237.304.016
Dwell Angle	Pointless	Pointless	Pointless
Ignition Timing	5° ± 2° BTDC	5° ± 2° BTDC	5° ± 2° BTDC
Idle RPM	900 ± 50	900 ± 50	900 ± 50
CO %	2.5 ± 1.0 sec. air disc.	0.4-0.8 oxygen sensor disc.	0.4-0.8 oxygen sensor disc.
Exhaust System	CAT, EGR	3 way CAT- oxygen sensor	3 way CAT- oxygen sensor
Engine Code No.	930/04 Calif-930/06	930/07	930/16
Valve Adj. (Cold) Int./Ext.	0.1mm (.004 in.)	0.1mm (.004 in.)	0.1mm (.004 in.)

BASIC EMISSION EQUIPMENT AND TUNE-UP SPECIFICATIONS

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MODEL YEAR	1984/85	1986/87/88
Fuel System	AFC Fuel Inj.	AFC Fuel Inj.
Sec. Air Pump	No	No
Throttle Compensator	Idle Stabilization System	Idle Stabilization System
Ignition Distributor Vacuum Unit	No	No
Diverter Valve	No	No
Spark Plugs	Bosch W7DC, WR7DC, WR7DP Champion RN7YC	Bosch WR7DC/WR7DP Champion RN7YC
Spark Plug Gap	0.7 + 0.1 mm	0.7 ± 0.1 mm
Ignition Distributor	Bosch 0237.505.001	Bosch 0237.505.001
Dwell Angle	Pointless	Pointless
Ignition Timing	3° ± 3° ATDC**	3° ± 3° ATDC** from Prod. 10/86 3° ± 3° BTDC**
Idle RPM	800 ± 20, idle stabilization system disconnected	800 ± 20; from Prod. 10/86, 880 ± 20 idle stabilization system disconnected both cases
CO %	0.8 ± 0.2 oxygen sensor disc.	0.8 ± 0.2 oxygen sensor disc.
Exhaust System	3 way CAT-oxygen sensor	3 way CAT-oxygen sensor
Engine Code No.	930/21	1986 930/21, 1987/88 930/25
Valve Adj. (Cold) Int./Ext.	0.1mm (.004 in.)	0.1mm (.004 in.)

**This specification for checking proper DME system operation, not adjustable

911 Turbo

MODEL YEAR	1976	1977	1978/79
Fuel System	CIS Fuel Inj.	CIS Fuel Inj.	CIS Fuel Inj.
Sec. Air Pump	Yes	Yes	Yes
Throttle Compensator	Decel. Valve	Decel. Valve	Decel. Valve
Ignition Distributor	Yes	Yes	Yes
Vacuum Unit			
Diverter Valve	Yes	Yes	Yes
Spark Plugs	P280P21	P280P21	P280P21
Spark Plug Gap	0.6 mm	0.6 mm	0.6 mm
Ignition Distributor	Bosch	Bosch	Bosch 0.237.302.009
Dwell Angle	Pointless	Pointless	Pointless
Ignition Timing	5° ± 2° ATDC	7° ± 2° ATDC	10° ± 2° ATDC 5° ± 2° ATDC Calif.
Idle RPM	950 ± 50	1000 ± 50	1000 ± 50
CO %	1.0-3.0 sec. air disc.	2.0-4.0 sec. air disc.	2.5 ± 0.5 sec. air disc.
Exhaust System	Thermo reactors	Thermo reactors, EGR	Thermo reactors, EGR
Engine Code	930/51	930/53	930/61/63
Valve Adj. (Cold)			
Int./Ext.	0.1mm (.004 in.)	0.1mm (.004 in.)	0.1mm (.004 in.)

BASIC EMISSION EQUIPMENT AND TUNE-UP SPECIFICATIONS

911 Turbo

MODEL YEAR	1981/82 Canada	1983/84/85 Canada	1986/87/88
Fuel System	CIS Fuel Inj.	CIS Fuel Inj.	CIS Fuel Inj.
Sec. Air Pump	Yes	Yes	Yes
Throttle Compensator	Decel. Valve	Decel. Valve	Decel. Valve
Ignition Distributor	Yes	Yes	Yes
Vacuum Unit			
Diverter Valve	Yes	Yes	Yes
Spark Plugs	W3DPO	W3DPO	W3DPO
Spark Plug Gap	0.7 + 0.1 mm - 0 mm	0.7 + 0.1 mm - 0 mm	0.7 + 0.1 mm - 0 mm
Ignition Distributor	Bosch 0237.301.004	Bosch 0237.302.034	Bosch 0237.302.034
Dwell Angle	Pointless	Pointless	Pointless
Ignition Timing	29° BTDC/4000	29° BTDC/4000	26° ± 1° BTDC at 4000 RPM vac. hoses disc.
Idle RPM	1000 ± 50	900 ± 50	900 ± 50
CO %	2.5 ± 0.5 sec. air disc.	2.0 ± 0.5 sec. air disc.	0.4-0.8 measured before CAT, oxy, sen. discon.
Exhaust System	Regular	Regular	3 way CAT
Engine Code No.	930/60	930/66	930/68
Valve Adj. (Cold)			
Int./Ext.	0.1mm (.004 in.)	0.1mm (.004 in.)	0.1mm (.004 in.)

BASIC EMISSION EQUIPMENT AND TUNE-UP SPECIFICATIONS

912

MODEL YEAR	1968	1969	1976-E
Fuel System	Carb. Solex 40 P11-4	Carb. Solex P11-4	AFC Fuel Inj.
Sec. Air Pump	Yes. Air pump may be deleted by modifying to 1969 specs.	No	Yes
Throttle Compensator	Yes	Yes	Decel. Valve
Ignition Distributor Vacuum Unit	No	No	Yes
Diverter Valve	Yes-Service installed	No	No
Spark Plugs	W200T35	W200T35	W175M30
Spark Plug Gap	0.6-0.7 mm	0.6-0.7 mm	0.7 mm
Ignition Distributor	Bosch 0231.129.022	Bosch 0231.129.022	Bosch 0.231176.060
Dwell Angle	50° ± 3°	50° ± 3°	47° ± 3°
Ignition Timing	3° BTDC	3° ATDC	27° BTDC/3500 vacuum hose disc.
Idle RPM	850 ± 50	900 ± 50	925 ± 50
CO %	3.5 sec. air disc.	4.0 ± 0.5	0.5-1.2 sec. air disc.
Exhaust System	Regular	Regular	Thermo reactors EGR
Engine Code No.	616/39	616/40	923/02
Valve Adj. (Cold)			
Int.	0.1mm (.004 in.)	0.1mm (.004 in.)	0.15mm (.006 in.)
Ext.	0.15mm (.006 in.)	0.15mm (.006 in.)	0.2mm (.008 in.)

BASIC EMISSION EQUIPMENT AND TUNE-UP SPECIFICATIONS

914/4

MODEL YEAR	1970	1971	1972
Fuel System	MPC Fuel Inj.	MPC Fuel Inj.	MPC Fuel Inj.
Sec. Air Pump	No	No	No
Throttle Compensator	Decel. Valve	Decel. Valve	Decel. Valve
Ignition Distributor Vacuum Unit	Yes	Yes	Yes
Diverter Valve	No	No	No
Spark Plugs	W175T2	W175T2	W175T2
Spark Plug Gap	0.6 mm	0.6 mm	0.6 mm
Ignition Distributor	Bosch	Bosch	Bosch
Dwell Angle	47° ± 3°	47° ± 3°	47° ± 3°
Ignition Timing	27° BTDC at 3500 RPM Vacuum hose discon.	27° BTDC at 3500 RPM Vacuum hose discon.	27° BTDC at 3500 RPM Vacuum hose discon.
Idle RPM	850-900	850-900	850-900
CO %	1.0-3.0	1.0-3.0	1.0-3.0
Exhaust System	Regular	Regular	Regular
Engine Code No.	W	W	EA
Valve Adj. (Cold)			
Int.	0.15mm (.006 in.)	0.15mm (.006 in.)	0.15mm (.006 in.)
Ext.	0.15mm (.006 in.)	0.15mm (.006 in.)	0.15mm (.006 in.)

914/4

MODEL YEAR	1973 1.7 Ltr.	1973 2.0 Ltr.	1974 1.8 Ltr.
Fuel System	MPC Fuel Inj.	MPC Fuel Inj.	AFC Fuel Inj.
Sec. Air Pump	No	No	No
Throttle Compensator	Decel. Valve	Decel. Valve	Decel. Valve
Ignition Distributor	Yes	Yes	Yes
Vacuum Unit			
Diverter Valve	No	No	No
Spark Plugs	W175T2	W175T2	W175T2
Spark Plug Gap	0.6 mm	0.6 mm	0.7 mm
Ignition Distributor	Bosch	Bosch	Bosch
Dwell Angle	47° ± 3°	47° ± 3°	47° ± 3°
Ignition Timing	27° BTDC at 3500 RPM Vacuum hose discon.	27° BTDC at 3500 RPM Vacuum hose discon.	7.5° BTDC at idle. Vacuum hose discon.
Idle RPM	850 ± 50	900 ± 50	850 ± 50
CO %	1.0-3.0	1.5	2.0-3.0
Exhaust System	Regular	Regular	Regular
Engine Code No.	EA 49 St. EB CA	GA	EC
Valve Adj. (Cold)			
Int.	0.15mm (.006 in.)	0.15mm (.006 in.)	0.15mm (.006 in.)
Ext.	0.15mm (.006 in.)	0.2mm (.008 in.)	0.15mm (.006 in.)

BASIC EMISSION EQUIPMENT AND TUNE-UP SPECIFICATIONS

914/4

MODEL YEAR	1974 2.0 Ltr.	1975 1.8 Ltr.	1975/76 2.0 Ltr.
Fuel System	MPC Fuel Inj.	AFC Fuel Inj.	MPC Fuel Inj.
Sec. Air Pump	No	No	Yes
Throttle Compensator	Decel. Valve	Decel. Valve	Decel. Valve
Ignition Distributor	Yes	Yes	Yes
Vacuum Unit			
Diverter Valve	No	No	No
Spark Plugs	W175T2	W175M30	W175T2
Spark Plug Gap	0.7 mm	0.7 mm	0.7 mm
Ignition Distributor	Bosch	Bosch	Bosch
Dwell Angle	47° ± 3°	47° ± 3°	47° ± 3°
Ignition Timing	27° BTDC at 3500 RPM Vacuum hose discon.	7.5 BTDC at idle	27° BTDC at 3500 RPM Vacuum hose discon.
Idle RPM	900 ± 50	900 ± 50	900 ± 50
CO %	1.5	49 St. 2.5 ± 0.5 CA 0.6-0.8	49 states 2.0 ± 1.0 CA 1.0-5.0 Air pump disconnected
Exhaust System	Regular	49 states-Reg CA-CAT and EGR	49 states-Reg CA-CAT and EGR
Engine Code No.	GA	EC-a 49 states EC-b	GC-a 49 states GC-b CA
Valve Adj. (Cold)			
Int.	0.15mm (.006 in.)	0.15mm (.006 in.)	0.15mm (.006 in.)
Ext.	0.2mm (.008 in.)	0.15mm (.006 in.)	0.2mm (.008 in.)

914/6

MODEL YEAR	1970/71
Fuel System	Weber Car. 40IDTP13C
Sec. Air Pump	No
Throttle Compensator	Yes
Ignition Distributor Vacuum Unit	No
Diverter Valve	No
Spark Plugs	W230T30
Spark Plug Gap	0.6 mm
Ignition Distributor	Marelli S112BX Bosch 0.231.159.008
Dwell Angle	40° ± 3° Marelli 38° ± 3° Bosch
Ignition Timing	35° BTDC at 6000 RPM
Idle RPM	900 ± 50
CO %	3.5 ± 0.5
Exhaust System	Regular
Engine Code No.	901/38
Valve Adj. (Cold)	
Int./Ext.	0.1mm (.004 in.)

BASIC EMISSION EQUIPMENT AND TUNE-UP SPECIFICATIONS

924

MODEL YEAR	1977	1977½	1978
Fuel System	CIS Fuel Inj.	CIS Fuel Inj.	CIS Fuel Inj.
Sec. Air Pump	Yes	Calif. only	Calif. only
Throttle Compensator	No	No	Decel. Valve
Ignition Distributor Vacuum System	Yes	Yes	Yes
Diverter Valve	Yes	Calif. only	Calif. only
Spark Plugs	W200T30	W200T30	W200T30
Spark Plug Gap	0.7 ± 0.1 mm	0.7 ± 0.1 mm	0.7 ± 0.1 mm
Ignition Distributor	Bosch	Bosch	Bosch 0.237.003.008
Dwell Angle	Pointless	Pointless	Pointless
Ignition Timing	10° ATDC	3° ATDC	3° ± 1° ATDC
Idle RPM	925 ± 75	925 ± 75	950 ± 50
CO %	49 states 1.5 ± 0.5 Calif. 0.7, sec. air disc.	0.5-1.0 air pump disc.	49 states 0.5-0.1 Calif. 0.8-1.2 air pump disc.
Exhaust System	49-regular plus EGR Calif.-CAT plus EGR	CAT and EGR for all states	CAT and EGR for all states
Engine Code No.	49-XH Calif.-XF	49-XG Calif.-XE	49-XG Calif.-XE
Valve Adj. (Hot)			
Int.Int.	0.2mm (.008 in.)	0.2mm (.008 in.)	0.2mm (.008 in.)
Ext.	0.45mm (.018 in.)	0.45mm (.018 in.)	0.45mm (.018 in.)

BASIC EMISSION EQUIPMENT AND TUNE-UP SPECIFICATIONS

924

MODEL YEAR	1979	1980	1981
Fuel System	CIS Fuel Inj.	CIS Fuel Inj.	CIS Fuel Inj.
Sec. Air Pump	Calif. only	No	No
Throttle Compensator	Decel. Valve	No	Idle stabilizer and decel. valve
Ignition Distributor Vacuum Unit	Yes	Yes	Yes
Diverter Valve	Calif. only	No	No
Spark Plugs	W200T30	WR6DS	WR6DS
Spark Plug Gap	0.7 ± 0.1 mm	0.7 ± 0.1 mm	0.7 ± 0.1 mm
Ignition Distributor	Bosch 0.237.003.008	Bosch 0.237.003.019	Bosch 0237.022.020
Dwell Angle	Pointless	Pointless	Pointless
Ignition Timing	3° ± 1° ATDC	0° ± 1°	TDC ± 1° vac. disconnected
Idle RPM	950 ± 50	950 ± 50 manual 1000 ± 50 auto	750-800
CO %	49 states 0.9 ± 0.2 CA 0.8-1.2 CA air pump disc.	0.6-1.0 oxygen sensor wire disconnected	0.5-1.0 oxygen sensor wire disconnected
Exhaust System	CAT and EGR for all states	CAT, oxygen sensor	CAT, oxygen sensor
Engine Code No.	49-XG CA-XE	VC	VC
Valve Adj.(Hot)			
Int.	0.2mm (.008 in.)	0.2mm (.008 in.)	0.2mm (.008 in.)
Ext.	0.45mm (.018 in.)	0.45mm (.018 in.)	0.45mm (.018 in.)

BASIC EMISSION EQUIPMENT AND TUNE-UP SPECIFICATIONS

924

MODEL YEAR	1982
Fuel System	CIS Fuel Inj.
Sec. Air Pump	No
Throttle Compensator	Idle stabilizer and decel. valve
Ignition Distributor Vacuum Unit	Yes
Diverter Valve	No
Spark Plugs	WR6DS
Spark Plug Gap	0.7 ± 0.1 mm
Ignition Distributor	Bosch 0237.022.020
Dwell Angle	Pointless
Ignition Timing	TDC ± 1° vac. disconnected
Idle RPM	750-800
CO %	0.5-1.0 oxygen sensor wire disconnected
Exhaust System	CAT, oxygen sensor
Engine Code No.	VC
Valve Adj. (Hot)	
Int.	0.2mm (.008 in.)
Ext.	0.45mm (.018 in.)

924S

MODEL YEAR	1987/88		
Fuel System	AFC Fuel inj.		
Sec. Air Pump	No		
Throttle Compensator	Idle stabilization system		
Ignition Distributor Vacuum Unit	No		
Diverter Valve	No		
Spark Plugs	Bosch WR7DC		
Spark Plug Gap	0.7+0.1mm		
Ignition Distributor	Cap and rotor only		
Dwell Angle	Pointless		
Ignition Timing	5 ± 3° BTDC at idle**		
Idle RPM	840±40*		
CO %	0.4-0.8 measured before CAT oxy.sensor disc.		
Exhaust System	3-way CAT oxy. sensor		
Engine Code No.	Year	Manual	Automatic
	87	M 44/07	M 44/08
	88	M 44/09	M 44/10

*Disconnect idle stabilization circuit.

**This spec. for checking proper DME system operation. Not adjustable.

BASIC EMISSION EQUIPMENT AND TUNE-UP SPECIFICATIONS

924 Turbo

MODEL YEAR	1980	1981	1982
Fuel System	CIS Fuel Inj.	CIS Fuel Inj.	CIS Fuel Inj.
Sec. Air Pump	No	No	No
Throttle Compensator	No	No	No
Ignition Distributor Vacuum Unit	Yes	No	No
Diverter Valve	No	No	No
Spark Plugs	WR7DS, N8GY	WR6DS, N7GY	WR6DS, N7GY
Spark Plug Gap	0.6 mm	0.7 mm	0.7 mm
Ignition Distributor	Bosch 0.237.003.013	Bosch 0237.501.001	Bosch 0237.501.001
Dwell Angle	Pointless	Pointless	Pointless
Ignition Timing	20° ± 1° BTDC at 2000 RPM	6-10° BTDC**	6-10° BTDC**
Idle RPM	900 ± 50	900	900
CO %	0.5-1.0 oxy. sensor disc.	0.5-1.0 oxy. sensor disc.	0.5-1.0 oxy. sensor disc.
Exhaust System	CAT, oxygen sensor	CAT, oxygen sensor	CAT, oxygen sensor
Engine Code No.	M31.02	M31.04	M31.04
Valve Adj. (Hot)			
Int.	0.2mm (.008 in.)	0.2mm (.008 in.)	0.2mm (.008 in.)
Ext.	0.45mm (.018 in.)	0.45mm (.018 in.)	0.45mm (.018 in.)

This specification is for checking proper ignition control unit operation, not adjustable.

BASIC EMISSION EQUIPMENT AND TUNE-UP SPECIFICATIONS

928

MODEL YEAR	1978/79	1980	1981
Fuel System	CIS Fuel Inj.	AFC Fuel Inj.	AFC Fuel Inj.
Sec. Air Pump	Yes	No	Yes
Throttle Compensator	Decel. Valve	Decel. Valve	Decel. Valve Man/Trans only
Ignition Distributor Vacuum Unit	Yes	Yes	Yes
Diverter Valve	Yes	No	Yes
Spark Plugs	W145T30	WR8DS	WR8DS
Spark Plug Gap	0.7 ^{+0.1} mm - 0 mm	0.7 ^{+0.1} mm - 0 mm	0.7 ^{+0.1} mm - 0 mm
Ignition Distributor	Bosch 0.237.401.006	Bosch 0.237.405.010	Bosch *
Dwell Angle	Pointless	Pointless	Pointless
Ignition Timing	31° BTDC at 3000 RPM vacuum hose disc.	23° BTDC at 3000 RPM vacuum hose disc.	23° BTDC at 3000 RPM vacuum hose disc.
Idle RPM	800 ± 50	750 ± 50	750 ± 50
CO %	3.0 ± 1.0 Air Pump Disc.	0.6 ± 0.2 oxy. sensor disc.	0.6 ± 0.2 oxy. sensor disc.
Exhaust System	CAT, EGR	CAT, oxy. sensor	CAT, oxy. sensor
Engine Code No.	M28/03 Manual M28/04 Auto	M28/13 Manual M28/14 Auto	M28/15 Manual M28/16 Auto

* M-5 0.237.405.020
A-3 0.237.405.023

BASIC EMISSION EQUIPMENT AND TUNE-UP SPECIFICATIONS

928, 928S

MODEL YEAR	1982	1983/84	1985
Fuel System	AFC Fuel Inj.	AFC Fuel Inj.	LH-Jetronic Fuel Inj.
Sec. Air Pump	Yes	Yes	Yes
Throttle Compensator	Decel. Valve, Man/Trans only	Decel. Valve, Man/Trans only	Idle stabilization system
Ignition Distributor Vacuum Unit	Yes	Yes	No
Diverter Valve	Yes	Yes	Yes
Spark Plugs	WR8DS	WR8DS	WR7DC
Spark Plug Gap	0.7 ^{+0.1} mm - 0 mm	0.7 ^{+0.1} mm - 0 mm	0.7 ^{+0.1} mm - 0 mm
Ignition Distributor	Bosch M-5 0.237.405.020 A-3 0.237.405.023	Bosch 0.237.401.019	Caps & Rotors only
Dwell Angle	Pointless	Pointless	Pointless
Ignition Timing	23° BTDC at 3000 RPM vacuum hose disc.	20° BTDC at 3000 RPM vacuum hose disc.	10° ± 2° BTDC at idle**
Idle RPM	750 ± 50	650 ± 50	680 ± 40*
CO %	0.6 ± 0.2 oxy sensor disc.	0.6 ± 0.2 oxy sensor disc.	0.6 ± 0.2 oxy sensor disc.
Exhaust System	CAT, oxygen sensor	CAT, oxygen sensor	CAT, oxygen sensor
Engine Code No.	M28/15 Manual M28/16 Auto	M28/19 Manual M28/20 Auto	M28/43 Manual M28/44 Auto

*With idle stabilization system disconnected.

**This specification for checking proper EZK Ignition System operation, not adjustable.

928S

MODEL YEAR	1986
Fuel System	LH-Jetronic Fuel Injection
Sec. Air Pump	Yes
Throttle Compensator	Idle stabilization system
Ignition Distributor Vacuum Unit	No
Diverter Valve	Yes
Spark Plugs	WR7DC
Spark Plug Gap	0.7 \pm 0.1 mm - 0 mm
Ignition Distributor	Cap and Rotors only
Dwell Angle	Pointless
Ignition Timing	10° \pm 2° BTDC at idle**
Idle RPM	680 \pm 40*
CO %	0.4-0.8 measured before CAT, oxy sen. disc.
Exhaust System	CAT, oxygen sensor
Engine Code No.	M28/43 Manual M28/44 Auto.

*With idle stabilization system disconnected.

**This specification for checking proper EZK Ignition System operation, not adjustable.

BASIC EMISSION EQUIPMENT AND TUNE-UP SPECIFICATIONS

928 S4

MODEL YEAR	1987/88
Fuel System	LH-Jetronic Fuel Injection
Sec. Air Pump	Yes
Throttle Compensator	Idle stabilization system
Ignition Distributor Vacuum Unit	No
Diverter Valve	Yes
Spark Plugs	WR7DC
Spark Plug Gap	0.7 \pm 0.1 mm - 0 mm
Ignition Distributor	Cap and Rotors only
Dwell Angle	Pointless
Ignition Timing	10° \pm 2° BTDC at idle**
Idle RPM	680 \pm 40* (not adjustable)
CO %	0.4-1.2 oxy. sensor connected (not adjustable)
Exhaust System	CAT, oxy. sensor
Engine Code No.	M28/41 Manual M28/42 Automatic

**This specification for checking proper EZK Ignition System operation, not adjustable.

944

MODEL YEAR	1983	1984	1985
Fuel System	AFC Fuel Inj.	AFC Fuel Inj.	AFC Fuel Inj.
Sec. Air Pump	No	No	No
Throttle Compensator	No	No	No
Ignition Distributor Vacuum Unit	No	No	No
Diverter Valve	No	No	No
Spark Plugs	Bosch WR8DS Champ. RN10GY	Bosch WR8DS Champ. RN10GY	Bosch WR8DS Champ. RN10GY
Spark Plug Gap	0.7 ^{+0.1} mm - 0 mm	0.7 ^{+0.1} mm - 0 mm	0.7 ^{+0.1} mm - 0 mm
Ignition Distributor	Cap/Rotor only	Cap/Rotor only	Cap/Rotor only
Dwell Angle	Pointless	Pointless	Pointless
Ignition Timing	5° ± 2° BTDC**	5° ± 2° BTDC**	5° ± 2° BTDC**
Idle RPM	900 ± 50	900 ± 50	840 ± 40*
CO %	0.6 ± 0.2 oxy. sen. disc.	0.6 ± 0.2 oxy. sen. disc.	0.6 ± 0.2 oxy. sen. disc.
Exhaust System	CAT, oxy. sen.	CAT, oxy. sen.	CAT, oxy. sen.
Engine Code No.	M44/02 Manual M44/04 Auto.	M44/02 Manual M44/04 Auto.	M44/07 Manual M44/08 Auto.

*On 85/2 vehicles—disconnect idle stabilization circuit.

**This specification for checking proper DME System operation, not adjustable.

BASIC EMISSION EQUIPMENT AND TUNE-UP SPECIFICATIONS

944

MODEL YEAR	1986/87/88	
Fuel System	AFC Fuel Inj.	
Sec. Air Pump	No	
Throttle Compensator	Idle Stabilization system	
Ignition Distributor Vacuum Unit	No	
Diverter Valve	No	
Spark Plugs	Bosch WR7DC Champion RN9YC	
Spark Plug Cap	0.7 ^{+0.1} mm - 0 mm	
Ignition Distributor	Cap/Rotor only	
Dwell Angle	Pointless	
Ignition Timing	5° ± 3° BTDC at idle**	
Idle RPM	840 ± 40*	
CO %	0.4-0.8 measured before CAT. oxy. sen. disc.	
Exhaust System	3 way CAT, oxy. sensor	
Engine Code No.	Year	Manual Automatic
	86	M 44/07 M 44/08
	87	M 44/07 M 44/08
	88	M 44/09 M 44/10

*On 85/2 vehicles—disconnect idle stabilization circuit.

**This specification for checking proper DME System operation, not adjustable.

944S

MODEL YEAR	1987/88
Fuel System	AFC Fuel Inj.
Sec. Air Pump	No
Throttle Compensator	Idle stabilization system
Ignition Distributor Vacuum Unit	No
Diverter Valve	No
Spark Plugs	Bosch WR7DC
Spark Plug Gap	0.7 + 0.1 mm - 0 mm
Ignition Distributor	Cap/Rotor only
Dwell Angle	Pointless
Ignition Timing	10° ± 3° BTDC**
Idle RPM	840 ± 40 Not adjustable
CO %	0.4-1.2 oxygen sensor connected (Not adjustable)
Exhaust System	CAT oxy. sensor
Engine Code No.	M44/40

**This specification for checking proper DME System operation, not adjustable.

BASIC EMISSION EQUIPMENT AND TUNE-UP SPECIFICATIONS

944 Turbo/944 Turbo S

MODEL YEAR	1986/87/88
Fuel System	AFC Fuel Inj.
Sec. Air Pump	No
Throttle Compensator	Idle stabilization system
Ignition Distributor Vacuum Unit	No
Diverter Valve	No
Spark Plugs	Bosch WR7DC
Spark Plug Gap	0.7 + 0.1 mm - 0 mm
Ignition Distributor	Cap/Rotor only
Dwell Angle	Pointless
Ignition Timing	5° ± 3° BTDC**
Idle RPM	840 ± 40*
CO %	0.4-0.8 measured before CAT. oxy. sen. disc.
Exhaust System	3 way CAT, oxygen sensor
Engine Code No.	944 Turbo M44/51 944 Turbo S M44/52

*With idle stabilization system disconnected.

**This specification for checking proper DME System operation, not adjustable.