

2 E 3 Carburettor

Identification/Calibration

Engine	13 SC				A 13 SC	
Output in kW (HP)	55 (75)				51 (69)	
Transmission	MT				AT	
Code number	9 276 976 (90 107 515)				9 276 977 (90 107 516)	
Colour code						
Cover screws	yellow				white	
Choke screws	black				white	
Stage			I.	II.	I.	II.
Fan shroud	diam.	mm	20	24	20	24
Choke valve gap	small	mm	0.9 to 1.3	(1.5 to 1.9)	0.9 to 1.3	(1.5 to 1.9)
	large	mm	1.7 to 2.1	(2.2 to 2.6)	2.1 to 2.5	(2.3 to 2.7)
Throttle valve gap			0.8 to 0.9		1.1 to 1.2	
Fast idle speed		rpm	2100 to 2500		2400 to 2800	
Throttle valve dashpot stroke "H")		mm	2.5 to 3.5		2.5 to 3.5	

Stage			I.	II.	I.	II.
Main jet			X 97.5	X 112.5	X 97.5	X 112.5
Air correction jet			80	100	80	100
Mixture line identification		88	60	88	60	
Part load enrichment	diam.	mm	0.5	-	0.5	-
Preatomizer	diam.	mm	8	7	8	7
Mixture outlet	diam.	mm	2.5	3.0	2.5	3.0
Idle speed fuel jet			37.5/130	-	37.5/130	-
Pretension of pull rod		mm	-	0.5 to 2.0	-	0.5 to 2.0
Release of forced return		z	-	0.23 to 0.6	-	0.2 to 0.6
Effective stage μ mm		y	-	0.6 to 1.0	-	0.6 to 1.0
Forced opening of choke valve		mm	1.5 to 3.5		3.0 to 5.0	

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Output in kW (HP)		55 (75)			51 (69)
Transmission		MT			AT
Code number		9 276 976/90 107 515		9 276 977/90 107 516	
Fuel enrichment		105 to 125		105 to 125	
Float needle valve - diameter	mm	1.5		1.5	
Float weight	g	5.75 to 5.95		5.75 to 5.95	
Float level	mm	28 to 30		28 to 30	
Identification no. of pulldown unit		55		55	
Identification no. of cam disc		163		164	
Fuel transition system		1.2		1.2	
Switching point for part load enrich. valve	mbar	160 to 240		135 to 215	
Stage		I.	II.	I.	II.
Fuel injection quantity	cmi/strokes	10.5to 13.5	-	7.5 to 10.5	-
Identification no. of pump diaphragm		99	-	99	-
Identification no. of part load enrich- ment valve			2	-	1
					-

Reduction of vacuum unit diameter.	mm	-	0.6	-	0.75
Choke switchoff time at approx. 14 V (s)			144 to 216		144 to 216
Height of enrich. line above preatomizer	mm		22.0 to 24.0		22.0 to 24.0
Basic adjustment of throttle valve.			1/4 rotation from free of play		1/4 rotation from free of play
Thermo time valve					
Valve open	°C		less than approx. + 28		less than approx. + 28
Valve closed	°C		more than approx + 35		more than approx + 35
Resistance at 20 to 30 °C in Ohm			6 ± 1.5		6 ± 1.5

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Identification/Calibration

Engine	14 NV
Output in kW (HP)	55 (75)
Transmission	MT
Code Number	90 107 560

Colour identification	Cover bolts	blue
	Automatic choke bolts	brown

			I. Stage	II. Stage
Main nozzle			X 95	X 110
Air correction nozzle			X 117.5	X 90
Mixture pipe identification number				103 51
Pre-atomizer/mixture outlet	Ø	mm	8 / 2.5	7 / 3.0
Idle fuel nozzle			45 / 130	-
Part load enrichment	Ø	mm	0.55	-
Fuel enrichment			57.5 to 77.5	-
Fan shroud	Ø	mm	20	24
Choke valve gap	small	mm	1.7 to 2.1	-
	large	mm	2.5 to 2.9	-
Throttle valve gap		mm	0.8 to 0.9	0.05
Throttle valve dashpot	stroke "H"	mm	-	-
Forced opening of choke valve		mm	1.5 to 3.5	-
Fast idle		rpm	2200 to 2600	-
Tie rod pre-tension		mm	-	0.5 to 2.0
Forced return release	Dim. "Y"	mm	-	0.5 to 1.1
	Dim. "Z"	mm	-	0.1 to 0.7
Float needle valve	Ø	mm	1.5	-
Float weight (dry)		g	5.75 to 5.95	-
Float level		mm	28 to 30	-

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Identification/Calibration /

Engine	14 NV
Output in kW (HP)	55 (75)
Transmission	MT
Identification number	90 107 560

	I. Stage	II. Stage
Pulldown unit ident. number	59	-

Stepped plate ident. number		192	-
Pump diaphragm ident. number		85	-
Part load enrichment valve ident. number		2	-
Fuel transition system		-	2.0
Part load valve switching point	mbar	200 to 300	-
Injection quantity	cm ³ /10 stro.	10.5 to 13.5	-
Vacuum unit reduction	Ø mm	-	0.6
Start switchoff time at approx. 14 volts	s	144 to 216	-
Height of enrichment pipe above pre-atomizer	mm	22 to 24	-
Thermo valve Passage	°C	below approx. +28	- closed °C
above approx. + 35	-	Resistance (at 20 to 30°C)	Ohm 4.5 to 7.5

2 E 3 Carburettor

Identification/Calibration

Engine				16 SV			
Output in kW (HP)				60 (82)			
Transmission		MT		MT		AT	
				(with air conditioning)			
Code number		90 107 522		90 107 553		90 107 523	
Colour code							
Cover screws		green		yellow		brown	
Choke screws.		brown		white		brown	
Stage		I.	II.	I.	II.	I.	II.
Fan shroud	Ø mm	20	24	20	24	20	24
Choke valve gap	small mm	1.3 to 1.7		1.3 to 1.7		1.4 to 1.8	
	large mm	1.9 to 2.3		1.9 to 2.3		2.0 to 2.4	
Throttle valve gap		0.8		0.8		0.8	
Fast idle speed	rpm	2000 to 2400		2000 to 2400		2500 to 2900	
Throttle valve dashpot stroke"H"	mm	-		-		2.5 to 3.5	
Stage		I.	II.	I.	II.	I.	II.
Main jet		X 95	X 105	X 95	X 105	X 95	X 105
Air correction jet		X 110	X 80	X 110	X 80	X 110	X 80
Mixture line identification		88	51	88	51	88	51
Part load enrichment	Ø mm	0.55	-	0.55	-	0.55	-
Preatomizer	Ø mm	8	7	8	7	8	7
Mixture outlet	Ø mm	2.5	3.0	2.5	3.0	2.5	2.0
Idle speed fuel jet		42.5/132.5	-	42.5/132.5	-	42.5/132.5	-
Pretension of pull rod	mm	-	0.5-2.0	-	0.5-2.0	-	0.5-2.0
Release of forced return	z	-	0.1-0.7	-	0.1-0.7	-	0.1-0.7
Effective Stage II μ mm	y	-	0.5-1.1	-	0.5-1.1	-	0.5-1.1
Forced opening of choke valve	mm	-	1.5-3.5	-	1.5-3.5	-	3.0-5.0

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Identification/Calibration

Engine				16 SV			
Output in kW (HP)				60 (82)			
Transmission		MT		MT		AT	
				(with air conditioning)			
Code number		90 107 522		90 107 553		90 107 523	

Stage		I.		II.	I.		II.	I.		II.
Fuel enrichment				85 to 105			85 to 105			85to105
Float needle valve	Ø	mm	1.5		1.5		1.5			
Float weight		g	5.75-5.95		5.75-5.95		5.75-5.95			
Float level		mm	28 - 30		28 - 30		28 - 30			
Identification no. of pulldown unit			59		59		59			
Identification no. of cam disc			174		174		176			
Fuel transition system	Ø	mm	0.85		0.85		0.85			
Switching point for part load enrichment valve.		mbar	200 - 300		200 - 300		140 - 210			
Fuel injection quantity		cmi/10 stro.	10.5 - 13.5		10.5 - 13.5		17.5 - 10.5			
Identification no. of pump diaphragm			99	-	99	-	99	-		
Identification no. of part load enrichment valve			2	-	2	-	2	-		
Reduction of vacuum unit	Ø	mm	-	0.6	-	0.6	-	0.75		
Choke switchoff time at approx. 14 V (s)			144 - 216		144 - 216		144 - 216			
Height of enrichment line above preatomizer.		mm	27 - 29		27 - 29		27 - 29			
Thermo time valve										
Valve open		°C	less than + 28		less than + 28		less than + 28			
Valve closed		°C	more than + 35		more than + 35		more than + 35			
Resistance at 20 - 30°C in ohms			4.5 - 7.5		4.5 - 7.5		4.5 - 7.5			