



POS	DESCRIPTION	X	Z	Y	NOTE
A	COOLANT FROM ENGINE HEATER	1010	128	495	PPE CONNECTION TO FIT n 22
B	COOLANT TO ENGINE HEATER	194	-335	211	M18x1.5
C	CHARGE AIR FROM CAC	-81	351	730	n 90
D	LIFTING EYE FRONT	-47	74	677	
E	COOLANT DRAIN COOK	470	-224	185	M22x1.5
F	OIL DP STICK	307	351	-33	
G	FUEL INLET	402	227	167	n 9.5
G	FUEL INLET OPTIONAL				3/8" NPSF
H	FUEL RETURN	522	-341	55	n 6.35
H	FUEL RETURN OPTIONAL				1/4" NPSF
I	AIR INTAKE	796	-368	380	n 106
J	EXHAUST OUTLET	449	-368	380	V-CLAMP n 122
K	COOLANT INLET	191	-262	10	n 60
L	COOLANT OUTLET	-379	-211	569	n 60
M	OIL FILER CAP	198	342	49	
N	OIL PRESSURE SENSOR	735	107	190	EMS
O	COOLANT TEMP SENSOR	61	-295	423	EMS
P	OPTIONAL SPEED SENSOR	162	250	117	M18x1.5 GCAR P110 P1153 TEETH
Q	FROM EXPANSION TANK	-116	-389	511	n 28
R	CHARGE AIR TO CAC	653	-446	149	n 90
S	AIR FILER INDICATOR/ AMBIENT TEMP				
T	OIL DRAIN PLUG	180	0	-437	M24x1.5
U	OIL TEMP SENSOR	360	188	-378	EMS
V	CRANK CASE VENTILATION	756	240	21	n 38
W	OIL TO AIR COMPRESSION	781	126	162	M12x1.5
X	CONTROL UNIT				
Y	LIFTING EYE BACK LEFT	1189	117	783	
Y	LIFTING EYE BACK RIGHT	1189	-344	685	
Z	AIR VENT HOSE: n 9.5 TO BE CONNECTED TO EXP. TANK	42	-242	565	n 10
AA	COOLANT LEVEL SENSOR				FOR VOLVO PENTA EXPANSION TANK
BB	AUX REMOTE STOP, DIAGNOSIS AND ENGINE INTERFACE	547	295	405	
CC	AUX STOP	488	295	405	
EE	CAB HEATER INLET	119	-399	167	INLET M16x1.5
EE	CAB HEATER INLET OUTLET	276	-191	375	OUTLET M18x1.5
FF	COOLANT TO COMPRESSOR	940	-149	292	n 30
GG	COOLANT FROM COMPRESSOR	110	-202	220	M22 x 1.5
TP	CENTRE OF GRAVITY	614	11	210	

SCALE 1:5

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ENGINE DIMENSIONS
 IAD 199-53 VE / ENGINE

DIMENSION DRAWING

VOLVO PENTA

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