



5TH CATEGORY - HISTORIC RACING GROUP S APPROVED VEHICLE SPECIFICATION
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This form details the approved specifications of individual vehicle models in the 5th Category Historic car group. To be issued with an Historic Log Book, cars need to comply with these specifications, the physical appearance shown in the illustrations and the general historic rules as detailed in the current Motorsport Australia Manual.

Make of Car:	Lancia	Model:	Beta Coupe – 1.8 Beta coupe – 2.0
Period of Original Manufacture:	Beta Coupe 1.8 – 1973 – 1975 Beta Coupe 2.0 – 1975 - 1982		
Motorsport Australia Historic Group:	Sc		
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Update Log

30/6/2022	Document layout

SECTION 1 - CHASSIS

1.1. CHASSIS

Description:	Unitary
Period of Manufacture:	Beta Coupe 1.8 – 1973 – 1975 Beta Coupe 2.0 – 1975 - 1982
Manufacturer:	Lancia
Chassis Number From:	828BC1
Chassis Number location:	Engine compartment – front rail
Material:	Mild steel
Comments	None

1.2. FRONT SUSPENSION

Description:	Independent with MacPherson struts, coil springs, lower wishbone		
Spring Medium:	Coil		
Damper Type:	MacPherson struts	Adjustable:	No
Anti-sway bar:	Yes	Adjustable:	No
Suspension adjustable:	Yes	Method:	Toe
Comments:	Spring rates and ride height are free		

1.3. REAR SUSPENSION

Description:	Independent with telescopic struts, coil springs, twin transverse links		
Spring Medium:	Coil		
Damper Type:	Telescopic struts	Adjustable	No
Anti-sway bar:	Yes	Adjustable:	No
Suspension adjustable:	Yes	Method:	Toe
Comments:	Spring rates and ride height are free		

1.4. STEERING

Type:	Rack and pinion	Make:	TRW or ZF
Comments	None		

1.5. BRAKES

	Front	Rear
Type:	Disc	Disc
Dimensions:	251 mm	251 mm
Material of drum/disc:	Cast iron	Cast iron
No. cylinders/pots per wheel:	Two	One
Actuation:	Hydraulic	Hydraulic
Caliper make:	DBA Bendix	
Caliper type:	Floating	
Material:	Cast iron Alloy	
Master cylinder make:	DBA Bendix	
Type:	Tandem	
Adjustable bias:	No	
Servo Fitted:	Yes	
Comments:	Adjustable rear brake pressure regulator fitted as standard	

SECTION 2 - ENGINE

2.1. ENGINE

Make:	Lancia		
Model:	828BC1		
No. cylinders:	Four	Configuration:	Transverse
Cylinder Block-material:	Cast iron	Two/Four Stroke:	Four
Bore – Original – 1.8:	84.0 mm	Max allowed:	85.5 mm
Stroke – original – 1.8:	79.2 mm	Max allowed:	79.2 mm
Capacity – original – 1.8:	1756 cc	Max allowed:	1818 cc
Bore – Original – 2.0:	84.0 mm	Max allowed:	85.5 mm
Stroke – original – 2.0:	90.0 mm	Max allowed:	90.0 mm
Capacity – original – 2.0:	1995 cc	Max allowed:	2065 cc
Identifying marks:	Block casting 828BC1		
Cooling method:	Liquid		
Comments:	1.8 engine replaced by 2.0 in 1975		

2.2. CYLINDER HEAD

Make:	Lancia		
No. of valves/cylinder:	Two	Inlet: One	Exhaust: One
No. of ports total:	Eight	Inlet: Four	Exhaust: Four
No. of camshafts:	Two	Location: Head	Drive: Toothed belt
Valve actuation:	Overhead cam		
Spark plugs/cylinder:	One		
Identifying marks:	Two threaded holes in one end – for engine brace mounting		
Comments:	None		

2.3. LUBRICATION

Method:	Wet sump	Oil tank location:	N/A
Dry sump pump type:	N/A	Location:	N/a
Oil cooler standard:	No	Location:	N/A
Comments:	Oil cooler allowed		

2.4. IGNITION SYSTEM

Type:	Up to November 1978 - Points, Coil and Distributor From November 1978 – Electronic distributor and coil, ECU		
Make:	Marelli Bosch		
Comments	None		

2.5. FUEL SYSTEM

Carburettor Make:	Weber	Model:	34 DATR
Carburettor Make:	Solex	Model:	C3A TCIC-1
Carburettor Number:	One		
Size:			
Fuel injection Make:	N/A	Type:	N/A
Supercharged:	No	Type:	N/A
Comments:	Twin carburettors allowed. Fule injection not sold in Australia Supercharged not sold in Australia		

SECTION 3 - TRANSMISSION

3.1. CLUTCH

Make:	Lancia
Type:	Diaphragm
Diameter:	215 mm
No. of Plates:	One
Actuation:	Mechanical – cable
Comments:	Twin plates were an option (Part 82325563)

3.2. TRANSMISSION

Type:	Manual, synchromesh
Make:	Lancia
Gearbox location:	LH side of engine bay
No. forward speeds:	Five
Gearchange type and location:	Lever, central floor
Case material:	Alloy
Identifying marks:	
Comments:	Ratios free

3.3. FINAL DRIVE

Make:	Lancia	Model:	
Wheel drive method	Driveshafts to front wheels		
Ratios:	Various		
Differential type:	Helical		
Comments:	Ratios free Limited slip differential allowed		

3.4. TRANSMISSION SHAFTS (EXPOSED)

Number:	Two
Location:	Front
Description:	Equal length with CV joints
Comments:	None

3.5. WHEELS & TYRES

Wheel type - Original:	Cast alloy	Material - Original:	Magnesium alloy
Wheel type - Allowed:	Cast alloy	Material - Allowed:	Magnesium alloy
Fixture method:	Bolt on	No. studs:	Four
Wheel dia. & rim width	FRONT		REAR
Original:	5 ½ "x 14"		5 ½ "x 14"
Allowed	6" x 14"		6" x 14"
Tyre Section:			
Original:	175/70 x 14"		175/70 x 14"
Allowed:	195/60 x 14		195/60 x 14
Aspect ratio - minimum:	60% minimum aspect ratio.		
Comments:	Refer approved tyre list. Rim size and tyre size limited to combination that will fit under wheel arches		

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SECTION 4 GENERAL

4.1. FUEL SYSTEM

Tank Location:	Rear -under boot floor	Capacity:	49 litres
Fuel pump, type:	Mechanical and/or electrical	Make:	Lancia
Comments:	None		

4.2. ELECTRICAL SYSTEM

Voltage:	Twelve	Alternator fitted:	Alternator
Battery Location:	Engine bay – LHS		
Comments:	None		

4.3. BODYWORK

Type:	Fixed head Coupe	Material:	Steel
No. of seats:	Four	No. doors:	Two
Comments:	None		

4.4. DIMENSIONS

Track - Front:	1406 mm	Rear:	1392 mm
Wheelbase:	2350 mm	Overall length:	3995 mm
Dry weight:	990 kg		
Comments:	None		

4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations

Appendix