



**5TH CATEGORY - HISTORIC RACING  
GROUP Nc  
APPROVED VEHICLE SPECIFICATION**

This form details the approved specifications of individual vehicle models in the 5th Category Historic car group. To be issued with a Historic Logbook, 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.

<b>Make of Car:</b>	Ford	<b>Model:</b>	Mustang Boss 302
<b>Period of Original Manufacture:</b>	Nov. 1968 to Nov. 1969		
<b>Motorsport Australia Historic Group:</b>	Nc		
<b>Date of issue of this document:</b>	July 2020		



<i>Update Log</i>	
May 2020	Corrections in Engine comments and sealing procedure

Refer to Motorsport Australia Manual, Vehicle Eligibility, Historic Touring Cars,  
General Requirements & Nc Regulations for permitted modifications.

## SECTION 1 - CHASSIS

<b>1.1 CHASSIS FRAME</b>	
<b>Description:</b>	Uni-body two door coupe
<b>Period of Manufacture:</b>	1968 – 69
<b>Manufacturer:</b>	Ford Motor Co.
<b>Chassis no. from:</b>	9(F,R or T) 02 - 100001
<b>Chassis no. location:</b>	Left side of firewall
<b>Material:</b>	Steel
<b>Comment:</b>	none

<b>1.2 FRONT SUSPENSION</b>			
<b>Description:</b>	Independent, upper wishbone, lower arm with track rod.		
<b>Spring Medium:</b>	Coil		
<b>Damper Type:</b>	Telescopic	<b>Adjustable:</b>	Yes
<b>Anti-sway bar:</b>	Fitted	<b>Adjustable:</b>	No
<b>Suspension adjustable:</b>	Yes	<b>Method:</b>	Caster, camber and toe, spring height
<b>Comment:</b>	none		

<b>1.3 REAR SUSPENSION</b>			
<b>Description:</b>	Live axle		
<b>Spring medium:</b>	Leaf		
<b>Damper type:</b>	Telescopic	<b>Adjustable:</b>	Yes
<b>Anti-sway bar:</b>	None		
<b>Suspension adjustable:</b>	Yes	<b>Method:</b>	Spring height
<b>Comment:</b>	none		

<b>1.4 STEERING</b>			
<b>Type:</b>	Recirculating ball	<b>Make:</b>	Ford
<b>Comment:</b>	None		

<b>1.5 BRAKES</b>			
	<b>Front</b>	<b>Rear</b>	
<b>Type:</b>	Disc	Drum	
<b>Dimensions:</b>	287 x 23.8 mm	254 x 44.4 mm	
<b>Material:</b>	Cast iron	Cast iron	
<b>No. cylinders/pots per wheel:</b>	One	One	
<b>Actuation:</b>	Hydraulic	Hydraulic	
<b>Caliper Make:</b>	Kelsey Hayes – Ford		
<b>Caliper Type:</b>	Floating		
<b>Caliper Material:</b>			
<b>Master cylinder make:</b>	Ford	<b>Type:</b>	Tandem
<b>Adjustable bias:</b>	No		
<b>Servo Fitted:</b>	Yes		
<b>Comment:</b>	none		

## SECTION 2 - ENGINE

<b>2.1 ENGINE</b>			
<b>Make:</b>	Ford		
<b>Model:</b>	Boss 302		
<b>No. cylinders:</b>	Eight	<b>Configuration:</b>	Vee
<b>Cylinder block material:</b>	Cast iron	<b>Two/Four Stroke:</b>	Four
<b>Bore - Original:</b>	101.6 mm	<b>Max. allowed:</b>	103.1 mm
<b>Stroke:</b>	76.2 mm	<b>Max. allowed:</b>	76.2 mm
<b>Capacity - original:</b>	4942 cc	<b>Max. allowed:</b>	5089 cc
<b>Cooling method:</b>	liquid		
<b>Identifying marks:</b>	C9ZE - 6015B		
<b>Comment:</b>	See Appendix A		

<b>2.2 CYLINDER HEAD</b>					
<b>Make:</b>	Ford				
<b>No. of valves/cylinder:</b>	Two	<b>Inlet:</b>	One	<b>Exhaust:</b>	One
<b>No. of ports total:</b>	Eight	<b>Inlet:</b>	Four	<b>Exhaust:</b>	Four
<b>No. of camshafts:</b>	One	<b>Location:</b>	Block	<b>Drive:</b>	Chain
<b>Valve actuation:</b>	Pushrod & rocker				
<b>Spark plugs/cylinder:</b>	One				
<b>Identifying marks:</b>	N/A				
<b>Comment:</b>	See Appendix A				

<b>2.3 LUBRICATION</b>			
<b>Method:</b>	Wet sump		
<b>Oil cooler standard:</b>	No		
<b>Comment:</b>	none		

<b>2.4 IGNITION SYSTEM</b>	
<b>Type:</b>	Points, coil & distributor
<b>Make:</b>	Autolite
<b>Comment:</b>	none

<b>2.5 FUEL SYSTEM</b>			
<b>Carburettor Make:</b>	Holly	<b>Model:</b>	9510
<b>Carburettor number:</b>	One		
<b>Comment:</b>	none		

### SECTION 3 - TRANSMISSION

<b>3.1 CLUTCH</b>			
<b>Make:</b>	Ford		
<b>Type:</b>	Diaphragm		
<b>Diameter:</b>	267 mm	<b>No. of Plates:</b>	One
<b>Actuation:</b>	Hydraulic		
<b>Comment:</b>	none		

<b>3.2 TRANSMISSION</b>			
<b>Type:</b>	Synchromesh		
<b>Make:</b>	Ford, top loader		
<b>No. forward speeds:</b>	Four	<b>Gearbox location:</b>	Behind engine
<b>Gear change type and location:</b>	Remote floor shift		
<b>Case material:</b>	Cast iron	<b>Identifying marks:</b>	N/A
<b>Comment:</b>	none		

<b>3.3 FINAL DRIVE</b>			
<b>Make:</b>	Ford	<b>Model:</b>	9 inch
<b>Type:</b>	Live axle		
<b>Wheel drive method:</b>	Rear		
<b>Ratios:</b>	Various		
<b>Differential type:</b>	LSD "Traction-lok" or "Detroit Locker"		
<b>Comment:</b>	none		

<b>3.4 TRANSMISSION SHAFTS (EXPOSED)</b>	
<b>Number:</b>	One
<b>Description:</b>	Open tail shaft
<b>Comment:</b>	none

<b>3.5 WHEELS &amp; TYRES</b>			
<b>Wheel type - Original:</b>	Disc	<b>Material - Original:</b>	Steel
<b>Allowed:</b>	Cast	<b>Allowed:</b>	Aluminium alloy
<b>Fixture method:</b>	Studs	<b>No. studs:</b>	Five
<b>Wheel dia. &amp; rim width:</b>	<b>FRONT</b>		<b>REAR</b>
<b>Original:</b>	7 x 15 inch		7 x 15 inch
<b>Allowed:</b>	8 x 15 inch		8 x 15 inch
<b>Tyres:</b>	60% minimum aspect ratio, refer approved tyre list.		
<b>Comment:</b>	none		

## SECTION 4 - GENERAL

<b>4.1 FUEL SYSTEM</b>			
<b>Tank Location:</b>	Boot floor	<b>Capacity:</b>	75 litre
<b>Fuel pump type and location:</b>	Mechanical & Electrical	<b>Make:</b>	Ford
<b>Comment:</b>	none		

<b>4.2 ELECTRICAL SYSTEM</b>			
<b>Voltage:</b>	12	<b>Alternator:</b>	Fitted
<b>Battery Location:</b>	Engine compartment		
<b>Comment:</b>	none		

<b>4.3 BODYWORK</b>			
<b>Type:</b>	Closed touring	<b>Material:</b>	Steel
<b>No. of seats:</b>	Four	<b>No. doors:</b>	Two
<b>Comment:</b>	See Appendix B		

<b>4.4 DIMENSIONS</b>			
<b>Track - Front:</b>	1506 mm	<b>Rear:</b>	1486 mm
<b>Wheelbase:</b>	2743 mm	<b>Overall length:</b>	4770 mm
<b>Dry weight:</b>	1238 kg		
<b>Comment:</b>	none		

<b>4.5 SAFETY EQUIPMENT</b>			
<i>Refer applicable Group Regulations</i>			

## ***Appendix A***

### ***Cylinder Heads***

Original Boss 302 head or any 4v Ford Cleveland head may be used.

### ***Block***

The Ford M-6010-BOSS 302 block as a replacement for the original 302 Boss block is approved for use.

### ***Sealing Procedure***

1. Engine to be assembled to short motor without sump.
2. Heads to be assembled ready to be fitted to engine.
3. 2 sump bolts/studs to be drilled. 2 top timing case bolts/studs to be drilled.
4. Measure bore and stroke.
5. Note whether 2 bolt or 4 bolt block.
6. Fit sump and fit seal. Seal timing case.
7. Note Seal Numbers

## Appendix B



The rear spoiler is to meet the specifications and dimensions of the original Ford part number C9ZZ-6344210-K. The spoiler will have an overall length of 57.5" and be 4.75" in height with 36" centre to centre between the mountings.



The front spoiler is to meet the specifications and dimensions of the original Ford part number C9ZZ-63001A74-A. The spoiler will be of high impact flexible plastic with the outside of the longest part on the corners 58-1/2" in length. The total width in the centre including the bottom lip 5". The total length at the centre before it turns corners (front part before turn) 50".



1969 Mustang Mach 1 hood scoop permitted. The hood scoop is to meet the specifications of the original Ford part No C9ZZ-16C630-A. The scoop will have an overall length of 27.5 inches, 15.5 inches wide, 2.25 inches high



Rear quarter panel fake scoops should not be used.



Repeater lights on lower front guards and rear quarter panels must be installed.