

Drawing Number	Drawing Description	Part Number	Drawing Description
	Coversheet		
RD01	Drawing Index & Notes	B03	Bracket - Differential support - Front
RD02	Chassis Assembly - Left Side	B05	Bracket - Steering rack mount
RD03	Chassis Assembly - Top	B06	Bracket - Spring holddown
RD04	Superstructure Assembly - Left Side	B17	Bracket - Sway bar - Rear
RD05	Superstructure Assembly - Top	B18	Bracket - Main rail end cap - Front
RD06	Chassis Assembly - Sections & Details 1	B19	Bracket - Rear shock upper mount
RD07	Chassis Assembly - Sections & Details 2	B26	Bracket - Brake hose - End support
RD08	B03, B05, B06, B26 & B27	B27	Bracket - Clutch hose - End support
RD09	B17, B18 & B19	B51	Bracket - Front outrigger - Main plate
RD10	B51 & B52	B52	Bracket - Front outrigger - Reinforcing plate
RD11	B53 & B54	B53	Bracket - Windshield support
RD12	B55 & B57	B54	Bracket - Steering column upper support
RD13	B56	B55	Bracket - Rear outrigger - Top plate
RD14	BA51	B56	Bracket - Rear outrigger - Bottom plate
RD15	B58, B59, B69 & B70	B57	Bracket - Rear outrigger - End closure plate
RD16	B62, B63, B64 & B65	B58	Bracket - Bumper support - Front
RD17	B61, B71 & B72	B59	Bracket - Sway bar bracket - Front
RD18	B73, B74 & B83	B60	Bracket - Seat support channels
RD19	B68, B75 & B76	B61	Bracket - Rear structure support tube
RD20	B60	B62	Bracket - Accelerator linkage - Footbox mount
RD21	B77, B78, B79, B80, B81 & B82	B63	Bracket - Steering column lower support
RD22	CT51, CT54 & CT55	B64	Bracket - Dash support
RD23	CT52	B65	Bracket - Cowl tube support - Lower
RD24	CT53	B66	Not Used
RD25	D51 & D52	B67	Not Used
RD26	D53, D54 & D55	B68	Bracket - Bumper support - Rear
RD27	FS01, FS02 & FS03	B69	Bracket - Radiator support - Upper
RD28	FSA01	B70	Bracket - Radiator support - Lower
RD29	FT01	B71	Bracket - Hood / trunk hinge - Pivot support
RD30	FT02	B72	Bracket - Hood / trunk hinge assembly
RD31	FT03, FT04 & FT05	B73	Bracket - Hood latch - Stop
RD32	FT06	B74	Bracket - Hood latch - Mount
RD33	FT07	B75	Bracket - Trunk latch - Stop
RD34	FTA01	B76	Bracket - Trunk latch - Mount
RD35	FTA02 & FTA03	B77	Bracket - Seatbelt mount - Inner & outer
RD36	HB51 & HB54	B78	Bracket - Seat track mount - Rear inner
RD37	HB52 & HB53	B79	Bracket - Hood & trunk prop rod support - Chassis pivot
RD38	HBA51	B80	Bracket - Hood & trunk prop rod support - Frame pivot
RD39	MM51	B81	Bracket - Gas tank retainer
RD40	MM52	B82	Bracket - Top & window support ferrule
RD41	MMA51	B83	Bracket - Fuel tank support
RD42	PB51, PB53 & PB54	BA51	Bracket Assembly - Rear outrigger
RD43	PB52	CT51	Chassis Tube - Main & Cross
RD44	PB55 & PB56	CT52	Chassis Tube - Front cowl
RD45	PB59	CT53	Chassis Tube - Rear cowl
RD46	PBA51 & PBA52	CT54	Chassis Tube - Front bumper tie
RD47	RS01 & RS03	CT55	Chassis Tube - Trunk - Bumper bracket support
RD48	RS02	D51	Door - Hinge support bracket - Chassis mount
RD49	RSA01	D52	Door - Hinge assembly
RD50	RT01	D53	Door - Hinge support bracket - Door frame
RD51	RT02	D54	Door - Latch box support bracket - Door frame
RD52	RT03, RT05 & RT06	D55	Door - Striker latch support bracket - Chassis
RD53	RT04 & RT51	FS01	Front Suspension - A-arm mount spacer - Front & rear
RD54	RTA51	FS02	Front Suspension - A-arm mount bracket with gusset
RD55	TM51 & TM52	FS03	Front Suspension - A-arm mount bracket without gusset
RD56	TMA51	FSA01	Front Suspension Assembly - A-arm mount location
RD57	ST51, ST52 & ST53	FT01	Front Tower - Front & rear plate
RD58	ST54, ST55 & ST56	FT02	Front Tower - Top & side plate
RD59	ST57, ST58 & ST59	FT03	Front Tower - Bottom plate
RD60	ST60	FT04	Front Tower - Spring bolt reinforcement
RD61	ST61	FT05	Front Tower - Shock mount
RD62	ST62	FT06	Front Tower - Upper shock mount arm
		FT07	Front Tower - Lower shock mount arm
		FTA01	Front Tower Assembly - Bare tower
		FTA02	Front Tower Assembly - Shock mount arms
		FTA03	Front Tower Assembly - Steering rack mount
		HB51	Hand Brake - Lower support bracket
		HB52	Hand Brake - Upper support bracket
		HB53	Hand Brake - Rear brace
		HB54	Hand Brake - Cable front support
		HBA51	Hand Brake Assembly
		MM51	Motor Mount - Right
		MM52	Motor Mount - Left
		MMA51	Motor Mount Assembly

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Part Number	Drawing Description
PB51	Pedal Box - Front plate - Roadster
PB52	Pedal Box - Bottom & rear plate - Roadster
PB53	Pedal Box - Side plate - Roadster
PB54	Pedal Bbox - Pedal pivot hub - Roadster
PB55	Pedal Box - Clutch pedal - Roadster
PB56	Pedal Box - Brake pedal - Roadster
PB59	Pedal Box - Miscellaneous pieces - Roadster
PBA51	Pedal Box Assembly - Roadster
PBA52	Pedal Box Assembly - Pedal installation - Roadster
RS01	Rear Suspension - A-arm mount
RS02	Rear Suspension - Main rail rear tie plate
RS03	Rear Suspension - Front mount gusset
RSA01	Rear Suspension Assembly - A-arm mount location
RT01	Rear Tower - Front plate
RT02	Rear Tower - Rear plate
RT03	Rear Tower - Top plate
RT04	Rear Tower - Side plate
RT05	Rear Tower - Differential support hub
RT06	Rear Tower - Spring bolt reinforcement
RT51	Rear Tower - Roll bar support bracket - Roadster
RTA51	Rear Tower Assembly
TM51	Transmission Mount - Main chassis mount bracket - Roadster
TM52	Transmission Mount - Isolation biscuit mount bracket - Roadster
TMA51	Transmission Mount Assembly - Roadster
ST51	Superstructure Tube - Hood front
ST52	Superstructure Tube - Hood rear
ST53	Superstructure Tube - Hood side
ST54	Superstructure Tube - Cockpit front
ST55	Superstructure Tube - Cockpit rear
ST56	Superstructure Tube - Door perimeter
ST57	Superstructure Tube - Trunk front
ST58	Superstructure Tube - Trunk side
ST59	Superstructure Tube - Trunk bottom rear
ST60	Superstructure - Hood frame assembly
ST61	Superstructure - Door frame assembly
ST62	Superstructure - Trunk frame assembly

Date: 4/15/2014

Notes:
1. Fabrication dimensions for components are based on the use of flat cold rolled steel and the nominal decimal equivalent of the gauge size. (The decimal equivalent is typically included on part drawing). Nominal gauge equivalences used are:

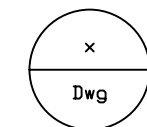
- 6 GA = .194"
- 7 GA = .187"
- 9 GA = .149"
- 10 GA = .134"
- 11 GA = .119"
- 12 GA = .104"
- 13 GA = .089"
- 14 GA = .074"
- 16 GA = .060"
- 18 GA = .047"

2. Bend radius (inner radius) are typically drawn in these drawings as 1 x material thickness.

3. Due to the handbuilt nature of the cobra, variations exist between bodies. It should be expected that all of the body support tubes (identified with the prefix 'ST' - Superstructure Tubes) will need to be adjusted to fit the body used. It is recommended that none of the ST tubes be final cut and welded onto the main chassis until they are fit to the body curvature.

4. Scale of drawings. Example: A scale indicated on the drawings as 1" : 2" = 1 drawing unit (inches) = 2 physical part units (inches). I.e the part is drawn at 1/2 scale and the part will print at 1/2 actual size when drawings are printed at full size of 24" x 32".

5. Test assemble all suspension and running gear components to chassis mounting brackets to check fit and alignment before final chassis welding.



Detail or Section Reference.
x = Detail or section Identification
Dwg = Drawing on which reference appears

Introduction:
These drawings have been created to document the chassis of the 1963 & 1964 289 cobra roadsters. The original cobras utilized the 260 CID Ford engine and a worm & sector steering assembly. As the car developed, the engine was upgraded to the 289 CID Ford and the steering was changed to the rack & pinion style for improved performance. A total of approximately 655 of the 289 roadster cobras were constructed in several body configurations (slab-side, FIA, USRRRC, Daytona Coupe, etc) and running gear modifications (racing brakes, engine & differentail oil coolers, sway bar mounts, etc.), however the basic 3 inch tube diameter ladder style chassis with transverse leaf springs was the common denominator until the coil spring, 4 inch diameter tube 427 chassis was introduced. These drawings represent a composite of several original cars and are intended to document the final version of the 289 rack & pinion design.

These drawings have been prepared with the best information available, however they are provided with no written or implied guarantee of accuracy or suitability of purpose and they are intended to be used solely for entertainment purposes.

Rev: 8/1/2015

Rev.	Description	Date	289 Roadster Chassis Drawing Registration No. xxx Name: Sample Date: April 2014	FOR PRIVATE USE ONLY Copying any part of this document without the written consent of the Developer CAL Cobras is prohibited.	Drawings developed by: CAL COBRAS Danville, CA.	CHASSIS & SUPERSTRUCTURE 289 COBRA ROADSTER	Line is 1 inch at full scale (if not 1" scale accordingly)	Scale NA	Title DRAWING INDEX & NOTES	Drawing Number RD01
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