

## ENGINE TUNING DATA

Type .....	V8 Cylinder	
Firing order .....	1—8—4—3—6—5—7—2	
Cylinder Numbers—Left bank.....	1—3—5—7	
Right bank .....	2—4—6—8	
No 1 Cylinder location.....	Pulley end of left bank	
Timing marks .....	On crankshaft vibration damper	
Spark plugs		
Make/type.....	Champion N9YC	
Gap .....	0.70–0.80 mm (0.030–0.032 in)	
Ignition module		
Make/type.....	Lucas 2CE 12 volt electronic	
Distributor		
Make/type.....	Lucas 35DM8 electronic	
Air gap .....	0.20–0.35 mm (0.008–0.014 in)	
<b>FUEL INJECTION MODELS</b>		
Engine .....	V8 Cylinder	
Compression ratio .....	9.35:1 and 8.13:1	
Fuel injection system.....	Lucas 'L' system electronically controlled	
Valve Timing	<b>Inlet</b>	<b>Exhaust</b>
Opens .....	24° BTDC	62° BBDC
Closes.....	52° ABDC	14° ATDC
Duration.....	256°	256°
Valve peak.....	104° ATDC	114° BTDC
Idle Speed.....	700 to 800 rev/min	
Ignition Timing at .....	600 rev/min	
Ignition Timing		
Dynamic or static.....	TDC ± 1°	
Exhaust Gas CO content at idle.....	0.5–1.0% max	
Distributor		
Make/type.....	Lucas 35 DM8 electronic	
Rotation.....	Clockwise	
Air gap .....	0.20–0.35 mm (0.008–0.014 in)	
Serial number .....	42608	
Centrifugal Advance		
Decelerating check—vacuum pipe disconnected		
Distributor decelerating speeds—1600 .....	Distributor advance 12° to 14°	
1100 .....	9° 30' to 11° 30'	
600 .....	1° 30' to 4°	
No centrifugal advance below.....	600 rev/min	
Fuel .....	96 octane—9.35:1	
	93 octane—8.13:1	

## EUROPE—Emission Controlled

## CARBURETTOR MODELS

Engine .....	V8 Cylinder	
Compression ratio .....	9.35:1	
<b>Valve timing</b>	<b>Inlet</b>	<b>Exhaust</b>
Opens .....	36° BTDC	74° BBDC
Closes .....	64° ABDC	26° ATDC
Duration .....	280°	280°
Valve peak .....	99° ATDC	119° BTDC
<b>Carburetors</b>		
Type .....	2 × Solex 175 CDSE	
Solex specification number .....	4187	
Needle .....	B1GG	
Idle speed (engine hot) .....	650–750 rev/min	
Fast idle speed (engine hot) .....	1050–1150 rev/min	
Mixture setting—CO at idle .....	0.5%–2.5% pulsair connected	
<b>Ignition</b>		
Distributor make/type .....	Lucas 35DM8 electronic	
Direction of rotation .....	Clockwise	
Air gap .....	0.20–0.35 mm (0.008–0.014 in)	
Distributor serial number .....	41980	
<b>Centrifugal advance</b>		
Decelerating check with vacuum pipe disconnected		
Distributor decelerating speeds—2800 .....	Distributor advance 5° 30' to 9°	
1750 .....	6° 30' to 9°	
1000 .....	2° 30' to 4° 30'	
No advance below .....	250 rev/min	
<b>Ignition timing</b>		
Dynamic or static .....	6° BTDC at 650–750 rev/min (vacuum pipe disconnected)	
<b>Fuel</b> .....	96 octane	

## GULF STATES—Emission Controlled

## CARBURETTER MODELS

Engine .....	V8 Cylinder	
Compression ratio .....	8.13:1	
<b>Valve timing</b>	<b>Inlet</b>	<b>Exhaust</b>
Opens .....	30° BTDC	68° BBDC
Closes .....	75° ABDC	37° ATDC
Duration.....	285°	285°
Valve peak.....	106° ATDC	112° BTDC
<b>Carburetters</b>		
Type .....	2 × Solex 175 CDSE	
Solex specification number .....	4186	
Needle.....	B1FC	
Idle speed (engine hot) .....	650–750 rev/min	
Fast idle speed (engine hot).....	1050–1150 rev/min	
Mixture setting—CO at idle .....	1.5%–3.5% pulsair connected	
<b>Ignition</b>		
Distributor make/type.....	Lucas 35DM8 electronic	
Direction of rotation .....	Clockwise	
Air gap .....	0.20–0.35 mm (0.008–0.014 in)	
Distributor serial number .....	42609	
<b>Centrifugal advance</b> .....	Vacuum pipe disconnected	
Distributor decelerating speeds—2300 .....	Distributor advance 10° 30' to 13° 30'	
1800 .....	8° to 10°	
1200 .....	3° 30' to 5° 30'	
No advance below .....	450 rev/min	
<b>Ignition timing</b>		
Dynamic or static .....	6° BTDC at 600 rev/min (vacuum pipe disconnected)	
<b>Fuel</b> .....	90–93 octane	

## REST OF THE WORLD—Non Emission

## CARBURETTOR MODELS

<b>Engine</b> .....	V8 Cylinder	
<b>Compression ratio</b> .....	8.13:1	
<b>Valve timing</b>	<b>Inlet</b>	<b>Exhaust</b>
Opens .....	30° BTDC	68° BBDC
Closes .....	75° ABDC	37° ATDC
Duration .....	285°	285°
Valve peak .....	106° ATDC	112° BTDC
<b>Carburetors</b>		
Type .....	2 × Solex 175 CD3	
Solex specification number .....	4185	
Needle .....	B1FF	
Idle speed (engine hot) .....	550—650 rev/min	
Fast idle speed (engine hot) .....	1050—1150 rev/min	
<b>Ignition</b>		
Distributor make/type .....	Lucas 35DM8 electronic	
Direction of rotation .....	Clockwise	
Air gap .....	0.20–0.35 mm (0.008–0.014 in)	
Distributor serial number .....	41981	
<b>Centrifugal advance</b> .....	Vacuum pipe disconnected	
Distributor decelerating speeds—2100 .....	Distributor advance 11° 30' to 13° 30'	
1500 .....	8° to 10°	
1000 .....	4° to 6°	
No advance below .....	450 rev/min	
<b>Ignition timing</b>		
Dynamic or static .....	6° BTDC at 650–750 rev/min (vacuum pipe disconnected)	
<b>Fuel</b> .....	90–93 octane	