TUNE-UP

TR8

ENGINE IDENTIFICATION

Engine number is stamped on left side of block near No. 3 spark plug.

Engine Code

Application	Code
Man. Trans.	14E
Auto. Trans.	15E

COMPRESSION PRESSURE

Check compression with engine warm, spark plugs removed, and throttle wide open. Crank engine through at least 4 compression strokes before taking reading. Minimum pressure should not be less than 135 psi (9.5 kg/cm²).

VALVE CLEARANCE

TR8 engines are equipped with hydraulic valve lifters and no adjustment is necessary.

VALVE ARRANGEMENT

E-I-E-I-I-E-I-E

SPARK PLUGS

Application	Gap In. (mm)	Torque Ft. Lbs. (N·m)
All Models	.030 (.8)	12 (16)

Spark Plug Type

Application	Champion No.
All Models	N12Y

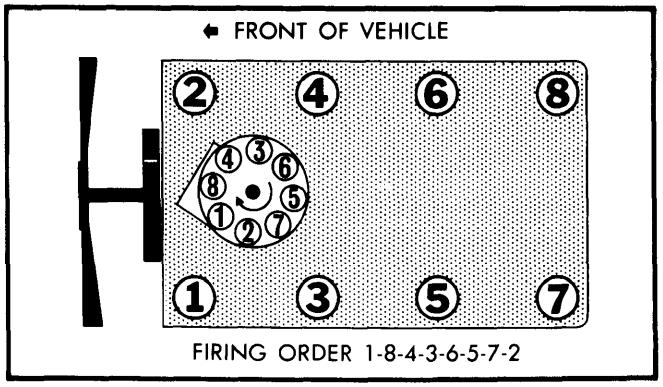

Fig. 1 Firing Order and Distributor Rotation

HIGH TENSION WIRE RESISTANCE

Carefully remove high tension wires from spark plugs and distributor cap. Using an ohmmeter, check high tension wire resistance while gently twisting wires. If resistance is not to specifications, or fluctuates from infinity to any value, replace high tension wire(s).

Resistance (Ohms) Per Wire

Application	Ohms
All Models	25,000-30,000

DISTRIBUTOR

All models are equipped with Lucas electronic breakerless ignition systems. The only maintenance is adjusting air gap between timing rotor and pick-up module.

CAUTION — *DO NOT insert feeler gauge into pick-up air gap when the ignition circuit is energized.*

Air Gap ..... .012-.017" (.3-.4 mm)

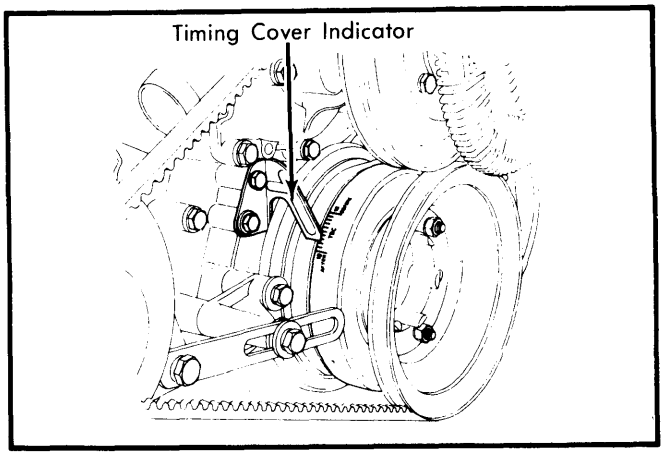

Fig. 2 Ignition Timing Mark Location

IGNITION TIMING

Check or adjust ignition timing with engine at normal operating temperature, idle speed set to specification, and distributor hoses disconnected. If adjustment is necessary, rotate distributor.

Ignition Timing Specifications

Application	RPM	Timing
All Models	750-900	TDC

IDLE SPEED & MIXTURE

NOTE — *The following adjustments must be performed with air filter in good condition, ignition timing and valve clearance adjusted to specifications and engine at normal operating temperature.*

Use a 7/32" Allen wrench to turn air screw clockwise to lower idle speed or counterclockwise to increase idle speed. Screw is located on plenum chamber.

NOTE — *Mixture adjustment is not a normal tune-up procedure. Mixture should not be adjusted unless vehicle fails emission testing or air flow meter is replaced. If adjustment is necessary, use Feedback Monitor Tool (60973066).*

1981 Triumph V8 Tune-Up

TUNE-UP (Cont.)

Idle Speed & CO Level

Application	RPM	CO%
All Models	800	①

① — Use special tester (No. 60973066).

FUEL PUMP PRESSURE

Pressure ..... 36 psi (2.5 kg/cm²)

EXHAUST EMISSION SYSTEMS

See EXHAUST EMISSION SYSTEMS section.

GENERAL SERVICING

IGNITION

DISTRIBUTOR

All models are equipped with Lucas Opus Electronic Ignition System.

IGNITION COIL

Resistance Specifications (Ohms@68°F)

Application	Primary	Secondary
All Models	.9-1.1	.....

FUEL SYSTEMS

FUEL INJECTION

All models are equipped with Bosch Air Flow Controlled fuel injection systems with oxygen sensor.

ELECTRICAL

Battery Location — Battery is located in trunk.

Application	Amp. Hr. Capacity
All Models	68

STARTER

Lucas ..... Overrunning clutch

Starter Specifications

Application	Volts	Amps	Test RPM
All Models	12	65	6000

ALTERNATOR

Application	Rated Amp. Output
All Models	65

ALTERNATOR REGULATOR

All models are equipped with Lucas integral alternator regulators.

BELT ADJUSTMENT

Application	①Deflection
Alternator	.5-.75" (13-19 mm)
A/C & Power Steering	.75-1.0" (19-25 mm)

① — Deflection is with moderate pressure applied midway on longest belt run.

FILTERS

Application	Service Interval (Miles)
Oil Filter	Replace every 7500
Air Filter	Replace every 36,000
Crankcase Breather Filter	Replace every 36,000
Fuel Filter	Replace every 36,000

CAPACITIES

Application	Quantity
Crankcase (Includes Filter)	5.4 qts.
Cooling System (Includes Heater)	11.5 qts.
Man. Trans. (SAE 75)	3.3 pts.
Rear Axle (SAE 75)	3.3 pts.
Fuel Tank	14.4 gals.