

BRIEF REPAIR DATA

Complete Repair Data in Motor's Auto Repair Manual

TUNE-UP DATA

TAPPET CLEARANCE for Running, Intake
1936-46015 Hot

TAPPET CLEARANCE for Running, Exhaust
1936-46015 Hot

TAPPET CLEARANCE for Valve Timing, Intake #2
1936-46015

VALVE TIMING

Note—With No. 1-8 TDC Mark visible at fly-wheel hole, #2 exhaust should be open to the following clearances:

1936 Series 40150
1936-46 Series 60,70,80,90. .155
1937-46 Series 40,50145

TIMING MARK LOCATION
1936-46 Flywheel

COMPRESSION PRESSURE at Cranking Speed

1936 Series 40 96
1936 Series 60,80,90 94
1937 Series 40 97
1937 Series 60,80,90 100
1938-39 Series 40 112
1938-39 Series 60,80,90 ... 113
1940 Series 40,50 112
1940 Series 60,80,90 114
1941-46 Series 40 118
1941-46 Series 50 120
1941-46 Series 60,70,90 ... 122

BREAKER GAP, Inches
1936-37015
1938-460125-.0175

SPARK TIMING
1936-46 Adv Mark

CAM ANGLE, Degrees
1936-46 31

SPARK PLUG GAP, Inches
1936-37025
1938-46023-.028

SPARK PLUG, Make & Model
1936 A.C. H-9
1937 A.C. H-9
1938-40 A.C. 46
1941 A.C. 104
1942 A.C. 46
1946 A.C. 48

FIRING ORDER
1936-46 1-6-2-5-8-3-7-4

CARBURETOR IDLE, Turns to Open
1936 Series 40 1 3/8 - 1 5/8

1936 Series 60,80,90 5/8 - 7/8
1937 Series 40 1/2 - 1
1937 Series 60,80,90 1 - 1 1/2
1938-39 Series 40 3/8 - 1
1938-39 Series 60,80,90 .. 1 1/4
1940-41 1 1/4
1942 Series 40 (1 carb.) .1/2-1 1/2
1942-46 except 1942 Series 40 (1 carb.) 1 1/4

REPAIR DATA

PISTONS & RODS are removed
From Above

COMPRESSION RING Gap Clearance
1936-46010-.020

OIL RING GAP CLEARANCE
1936-46010-.020

COMPRESSION RING Groove Clearance
1936-460015-.003

OIL RING Groove Clearance
1936-460015-.003

CONNECTING ROD Bearing Clearance
1936-460008-.0018

MAIN BEARING Clearance
1936-410007-.0022
1942-460007-.0025

WHEEL ALIGNMENT

TOE-IN, Inches
1936 1/16 - 1/8
1937-46 0 - 1/16

CASTER, Degrees
1936 Series 40 3 to 3 1/2
1936 Series 60,80 1 3/4 to 2 1/4
1936 Series 90 3/4 to 1 1/4
1937 Series 40,60 1/4 ± 3/8
1937 Series 80,90 0 ± 3/8
1938-39 -7/8 ± 3/8
1940 Series 40,50,60,70. +3/8 ± 3/8
1940 Series 80,90 -7/8 ± 3/8
1941-46 +3/8 ± 3/8

CAMBER, Degrees
1936 -1/4 to + 3/4
1937-40 -1/4 to +1
1941-42 Series 40,50,60,70 +3/8 ± 3/8
1941 42 Series 90 -3/8 to + 7/8
1946 -1/8 to + 1 1/8

CLUTCH & BRAKE

CLUTCH FREE Pedal Travel, Inches
1936-46 3/4 - 1

BRAKE SHOE Clearance, Toe
1936-40010

1941-46015
BRAKE SHOE Clearance, Heel
1936-40010
1940-46015

LUBRICATION & CAPACITIES

ENGINE OIL Capacity, Refill Quarts
1936-42 Series 60,70,80,90 8
1940-41 Series 50 6
1942-46 Series 40,50 6 1/2

ENGINE OIL, S. A. E. No.
1936-37 (S) 30
1936-37 (W) 20 W
1938-46 20 W

TRANSMISSION CAPACITY, Lbs. or Pints
1936-46 Series 40,50 1 4
1936-46 Series 60,70,80,90 2 1/2

TRANSMISSION OIL S. A. E. No.
1936-38 (Summer) 160
1936-38 (winter) 90
1939-46 90EP

REAR AXLE CAPACITY Lbs. or Pints.
1936 Series 40 3
1936 Series 60,80 4
1936 Series 90 4 1/2
1937-46 except Series 80,90 3
1937-42 Series 80,90 4

REAR AXLE OIL S. A. E. No.
1936-37 (S) 160
1936-37 (W) 90
1938-46 90 H.Y.

FUEL TANK CAPACITY, Gallons
1936 Series 40,60 16
1936 Series 80,90 20
1937-39 Series 40,60 18
1937-39 Series 80,90 20
1940 Series 40,50,60,70 ... 17
1940 Series 80,90 19
1941 Series 40,50,60,70 ... 18
1941 Series 90 21
1942 Series 40,50,60,70 ... 19
1942 Series 90 22
1946 19

COOLING SYSTEM CAPACITY, Qts.
1936-40 Series 40 13 1/4
1936-40 Series 60,70,80,90 17
1941 Series 40,50 13 7/8
1941 Series 60,70 17 3/8
1941 Series 90 18
1942-46 Series 40,50 14 1/4
1942-46 Series 60,70,90 ... 18