

DODGE BROTHERS SIX

INSTRUCTION BOOK



Wm. C. ...

SECOND EDITION
SEPTEMBER 1929

100

DODGE BROTHERS CORPORATION

DIVISION OF CHRYSLER CORPORATION

DETROIT, MICHIGAN, U. S. A.



DODGE BROTHERS
SIX
INSTRUCTION BOOK

SECOND EDITION
SEPTEMBER 1929

DODGE BROTHERS CORPORATION
DIVISION OF CHRYSLER CORPORATION
DETROIT, MICHIGAN, U. S. A.

PRINTED IN U. S. A.
Copyright 1929, Dodge Brothers Corporation
Division of Chrysler Corporation

License Data

Dodge Brothers Six

Car Serial Number.....

(Stamped on the nameplate on upper toe board and also on right side of frame, back of the front spring rear bracket.)

Engine Serial Number.....

(Stamped on right side of cylinder block near the rear.)

Cylinder Bore— $3\frac{3}{8}$ "

Stroke— $3\frac{7}{8}$ "

Number of Cylinders—6

N. A. C. C. Horsepower Rating—27.34

Piston Displacement—207.99 cu. in.

Shipping Weights:

Roadster.....	2695
Phaeton.....	2736
Business Coupe.....	2770
DeLuxe Coupe.....	2820
Victoria.....	2821
Brougham.....	2822
Sedan.....	2910
DeLuxe Sedan.....	2895

KEYS

Key numbers should be noted so that in case of loss or breakage new keys may be obtained. The lock number is not shown on the outside of the lock.

Table of Contents

	Page
License Data.....	2
Lock Your Car.....	8
Foreword.....	9
Inspection and Care.....	10
Lubrication.....	15
General Description and Repair Operations.....	20
Corrective Measures.....	72
Operation.....	75
Tools (List).....	77
Accessory Repairs.....	78
Detailed Specifications.....	79
Ordering Parts.....	82
Returning Parts.....	82
Genuine Parts.....	83
Warranty.....	84

Inspection and Care

Engine.....	10
Oiling System.....	10
Ignition System.....	10
Storage Battery.....	10
Cooling System.....	11
Fuel System.....	11
Clutch.....	11
Transmission.....	11
Brakes.....	11
Steering Connections.....	11
Springs.....	12
Shock Absorbers.....	12
Tires.....	12
Wheels.....	12
Front Axle.....	12
Rear Axle.....	12
Windshield.....	12
Body Door Hinges and Locks.....	12
Washing the Car.....	12
Open Car Top.....	13
Side Curtains.....	14
Precautions for Summer.....	14
Precautions for Winter.....	14
Storage of Tires.....	15
Storing the Car.....	15

Table of Contents (Continued)

Lubrication		Page
Engine Lubrication.....		15
Oil Pressures.....		16
Oil Filter.....		17
Draining Crankcase Oil.....		17
Cleaning Oil Pan and Screen.....		18
Distributor.....		18
Generator.....		18
Starting Motor.....		18
Lubricant Gun.....		18
Water Pump.....		19
Clutch.....		19
Transmission.....		19
Universal Joints.....		19
Rear Axle.....		19
Front Axle.....		19
Springs.....		20
Brakes.....		20
Steering Gear.....		20

General Description and Repair Operations

Engine.....	20
Pistons and Rings.....	20
Bearings.....	21
Valves and Valve Timing.....	23
To Set Valve Timing.....	23
To Check Valve Timing.....	23
Valve Grinding.....	25
Timing Chain.....	31
Cooling System.....	32
Care.....	32
Steaming.....	33
Adjustments.....	33
Non-Freezing Solutions.....	33
Fuel System.....	35
Supply Tank.....	35
Fuel Gauge.....	35
Vacuum Tank.....	35
Carburetor.....	35

Table of Contents (Continued)

	Page
Air Cleaner.....	36
Crankcase Ventilation.....	36
Manifold Heat Control.....	36
Electrical System.....	38
Starting Motor.....	39
Generator.....	39
Reverse Current Cutout.....	39
Distributor.....	39
To Adjust Point Opening.....	41
Ignition Coil.....	41
Ignition Switch and Lock.....	41
Spark Plugs.....	41
Suggestions.....	42
To Set Ignition Timing.....	44
Firing Order.....	44
Spark Advance.....	45
Light Control.....	45
Headlamp Adjustment.....	45
Battery.....	46
Care of Battery.....	46
Horn.....	47
Power Transmission System.....	49
Clutch.....	49
Adjustments.....	49
To Install Clutch.....	51
Transmission.....	52
Universal Joints and Propeller Shaft.....	52
Lubrication.....	53
Rear Axle.....	55
Drive Pinion Adjustment.....	55
Pinion Bearings.....	55
Differential Bearing Adjustment.....	56
Axle Shaft Bearing Adjustment.....	56
To Remove Axle Shaft.....	56
Lubrication.....	57
Front Axle.....	57
Front Wheel Alignment and Tie Rod Adjustment.....	57

Table of Contents (Continued)

	Page
Wheels.....	57
Tire Pressures.....	59
Drag Link.....	59
Springs.....	62
Steering Gear.....	62
Adjustments.....	62
Lubrication.....	63
Hydraulic Four-Wheel Brakes.....	63
Operation.....	63
General.....	65
Supply Tank.....	65
Master Cylinder.....	66
Wheel Cylinders.....	67
Bleeding the Lines.....	68
Leaks.....	69
To Adjust Wheel Brakes.....	69
Refacing Brakes.....	70
Hand Brake.....	71

Corrective Measures

Engine Fails to Start.....	72
Engine Stops.....	72
Engine Misses.....	72
Loss of Power.....	73
Lack of Compression.....	73
Popping Back Through Carburetor.....	73
Engine Overheats.....	73
Engine Knocks.....	73

Operation

Preparing the Car for Use.....	75
To Start Engine.....	75
Driving the Car.....	75
Stopping the Car.....	76
Caution.....	76

Index to Illustrations

Figure	Illustration	Page
1	Left Side View of Power Plant.....	22
2	Right Side View of Power Plant.....	24
3	Side Sectional View of Engine.....	26
4	Front Sectional View of Engine.....	28
5	Valve Timing Diagram.....	29
6	Center Sectional View of Engine.....	30
7	Timing Chain and Sprockets.....	32
8	Carburetor and Air Cleaner.....	34
9	Starting Motor.....	38
10	Wiring Diagram.....	40
	Lubrication Chart.....	Center Insert
11	Generator.....	42
12	Distributor.....	43
13	Upper Beam of Headlamp.....	44
14	Lower Beam of Headlamp.....	45
15	Clutch and Pedal Adjustments.....	48
16	Transmission.....	50
17	Propeller Shaft and Universal Joints.....	53
18	Rear Axle.....	54
19	Front Axle.....	58
20	Steering Gear.....	60
21	Drag Link.....	61
22	Hydraulic Four-Wheel Brake System.....	64
23	Master Cylinder.....	66
24	Brake Shoe Cam Adjustments.....	67
25	Wheel Brake Shoe Adjustments.....	68
26	Hand Brake.....	70
27	Front Compartment.....	74