

We at Chrysler Motors Corporation feel that an automobile as distinctive as your new Chrysler 300-L deserves this specially-prepared booklet to supplement your 1965 Chrysler Operating Instructions. Please read it carefully so that you will know what is different about your Chrysler 300-L. You will note that complete engine specifications are provided for your benefit.

May we offer our congratulations for selecting this fine automobile.

Chrysler Corporation reserves the right to make changes in design and specifications, and/or, to make additions to or improvements in its product without imposing any obligations upon itself to install them on its products previously manufactured.

## What you'll want to know about your NEW CHRYSLER 300-L

Your new Chrysler 300-L is a very special car. It represents important automotive achievements, and understanding its uniqueness will increase your pleasure of ownership.

In the past, it has been necessary to choose between a sports car for excellence in performance and handling, and a full-size car for a smooth ride and American-style comfort. But your new 300-L combines the most desirable qualities of both the true sports car and the full-size car.

You have probably already noticed the ability of your 300-L to accelerate quickly—from a standstill—or in passing situations on the open road. Its performance capabilities are an inheritance that goes ten years deep, refined in the cars of Chrysler's famed "letter" series. A team of Chrysler 300's has been a leading contender in sports-car rallies all over the country.

The refinement never ceases. Today's 413 cubic-inch high-compression V-8 supplies numerous benefits resulting from engineering progress. This power plant has a special camshaft, unsilenced air cleaner and a dual exhaust system.

This fine engine, with automatic transmission as standard equipment, or with the optional 4-speed, floor-shift manual, creates a power team that supplies the feeling of complete mastery of driving you get in your 300-L.

You are sure to experience the 300-L's very positive "feel of the road", too. It is largely due to its advanced suspension system and drive line. Front torsion bars, long a feature of the finest sports cars because of the better control and stability they provide, were adapted to the full-size Chrysler in 1957. They allow the soft, smooth ride most discriminating owners prefer, yet also help provide the flat cornering and sure handling you get in your new "L". A newly-designed "constant velocity" universal joint assures you of added comfort resulting from smooth, quiet drive line operation under all conditions. If you desire the ultimate in sports car roadability and cornering, an optional suspension system is available consisting of heavy-duty torsion bars and rear springs, shock absorbers and brakes. Handling ease is also enhanced by Chrysler full-time power steering. Only 3½ light turns of the wheel take you from full left to full right.

A gentle touch on the power brake pedal brings you to a smooth, sure halt. The brakes themselves have more effective brake lining area than any other car in Chrysler's class. There are 263.3 square inches to balance your "L's" go-power with stopping power. They are self-adjusting to eliminate the bother of frequent minor service. And their tough, bonded linings contribute to long driving life. Tires are the new low-profile type with a tread size increase to 8.55.

Wheelbase and weight have been increased for riding comfort. You and your passengers will appreciate the added interior space in your "L". It allows stretch-out comfort not possible in small sports cars. And, of course, you have ample big-car luggage space. But its room is only the beginning of your 300-L's comfort and convenience provisions.

There are molded, foam-padded front bucket seats with adjustable, thickly-padded headrests. The passenger's side reclines in five positions with release levers accessible to front and rear seat passengers. The control console may have a

4-speed manual or an automatic 3-speed transmission shift lever and Performance Indicator that measures manifold vacuum in inches of mercury—correlates with your engine's output in all operating ranges. And you will recognize other significant touches—notes of luxury in a big car, genuine surprises in a sports car. The convenience and comfort of the long, ample armrests, for example. The helpfulness of the front seat assist handle. Ash trays and cigar lighters both front and rear. Interior door-operated lights, and the deep-pile carpeting.

There is the impressive quietness about your "L". You may have noticed it, even at high speeds and over rough surfaces. It is a product of Chrysler's one-piece Unibody. This all-welded, scientifically engineered structure is exceptionally strong and durable.

And durability is also a feature of your car's individual beauty. The 300-L is extensively rustproofed and its advanced Acrylic-enamel finish will stay new-looking, with minimum care, for many years.

As you drive your Chrysler 300-L, you will discover many other unique and delightful features. We would like your impressions and comments about this full-sized sports car. The desires of owners like yourself are of great assistance to us in planning the still finer cars of tomorrow.

Please write your comments to Chrysler-Plymouth Division, Chrysler Motors Corporation, P. O. Box 1658, Detroit, Michigan, 48231.

Congratulations on your choice of the 300-L! May you enjoy many adventuresome and satisfying miles behind its steering wheel.

P. N. Buckminster

General Manager

CHRYSLER-PLYMOUTH DIVISION

## CHRYSLER 300-L SPECIFICATIONS

## FirePower 360 Engine

ENGINE
Type 90°V
Number of Cylinders. 8 Bore. 4.19"
Stroke 3,750"
Stroke 3.750" Compression Pressure with Engine Warm, Spark Plugs Removed, Wide Open
Throttle
Piston Displacement 413 cubic inch
Compression Ratio (premium fuel)
Horsepower 360 Maximum Variation Between Cylinders 25 psi
Firing Order
Basic Timing
CYLINDER NUMBERING (FRONT TO REAR)
Left Bank
Right Bank. 2-4-6-8
CYLINDER BLOCK
Cylinder Bore (standard)
Cylinder Bore Taner (maximum allowable)
Reconditioning Working Limits (for taper and out-of-round)
Maximum Allowable Oversize (cylinder bores)
Tappet Bore Diameter
Ream to
Shaft to Bushing Clearance
•
CRANKSHAFT
TypeFully Counter-Balanced BearingsSteel Backed Babbitt
Journal Diameter
Crank Pin Diameter 2.375"
Maximum Out-of-Round Permissible
Number of Main Bearings. 5
Clearance Desired (bearing installed I.D. minus journal O.D.)
Fnd Play .002 to .007"
Thrust Taken by
Finish at Rear Seal Surface
Interchangeability of Bearings
MAIN BEARINGS (Service)
All available in standard and the following undersizes
•
CONNECTING RODS AND BEARINGS
Type
Length (center to center)

Weight (less bearing shells).  Bearings.  Diameter and Length.  Clearance Desired (bearing installed I.D. minus journal O.D.).  Maximum Allowable.  Side Clearance.  Bearings for Service.  Standard .001, .002, .003, .010, .012" Undersize Piston Pin Bore Diameter.  846 ± 4 GMS.  846 ± 4 GMS.  846 ± 4 GMS.  847 ± 4 GMS.  848 ± 4 GMS.  848 ± 4 GMS.  848 ± 4 GMS.  848 ± 4 GMS.  849 ± 4 GMS.  849 ± 4 GMS.  840
CAMSHAFT Drive
CAMSHAFT BEARING JOURNALS         Diameter       1.998 to 1.999"         No. 1       1.982 to 1.983"         No. 2       1.967 to 1.968"         No. 3       1.967 to 1.968"         No. 4       1.951 to 1.952"         No. 5       1.748 to 1.749"
CAMSHAFT BEARINGS       Diameter (after reaming)       2.000 to 2.001"         No. 1       1.984 to 1.985"         No. 2       1.984 to 1.985"         No. 3       1.969 to 1.970"         No. 4       1.953 to 1.954"         No. 5       1.750 to 1.751"
VALVE TIMING       24°         Intake Opens (BTC)       .64°         Intake Closes (ABC)       .64°         Exhaust Opens (BBC)       .24°         Exhaust Closes (ATC)       .24°         Valve Overlap       .48°         Intake Valve Duration       .268°         Exhaust Valve Duration       .268°
TIMING CHAIN         None           Adjustment         50           Number of Links         50"           Pitch         50"           Width         88"
TAPPETS Type Hydraulic Clearance in Cylinder Block

PISTONS
Type
Land Clearance
Clearance at Ton of Skirt
Weight (standard through .040" oversize). 780 grms. Piston Length (overall) 3.96"
Ring Groove Depth
No. 1—
No. 2—
No. 3—
PISTON PINS
Type Press Fit in Rod
Diameter       1.0935 to 1.0937"         Length       3.555 to 3.575"
Clearance in Piston
Interference in Rod
Piston Pins for Service. Standard Only Direction Offset in Piston. Toward Right Side of Engine
PISTON RINGS Number of Rings per Piston
Top—Compression Chrome
Middle—Compression Tin 1
Oil Steel Rails with Spacer
(Compression)0775 to .078"
(Oil Each Rail)       .025"         Piston Ring Gap (all)       .013 to .025"
Piston King Gap (an)
RING SIDE CLEARANCE (Service)
(Compression) Upper
"Intermediate
(Oil)
VALVES—Intake
Material SAE 1041 Steel
Head Diameter         2.08"           Stem Diameter         372 to .373"
Stem Oversizes Available for Service
Stem to Guide Clearance
Maximum Allowable Before Reconditioning
AdjustmentNone
Lift All Models
VALVES—Exhaust
Material Nitrogen Treated Manganese Chromium Nickel Steel
Head Diameter         1.60"           Stem Diameter         .371 to 3.72"
The second secon

Stem Oversize Available for Service. Stem to Guide Clearance. Maximum Allowable Before Reconditioning. Angle of Seat. Adjustment. Lift All Models	
VALVE SPRINGS NumberFree Length	2.34 Illiake
Load when compressed to (valve closed) Load when compressed to (valve open) Surge Damper Valve Springs I.D.	
Maximum allowable out of plumb	
VALVE GUIDES TypeGuide Bore Diameter	
CYLINDER HEAD Number Used Combustion Chamber Valve Seat Runout (maximum) Intake Valve Seat Angle Intake Seat Width Exhaust Valve Seat Angle Exhaust Seat Width Cylinder Head Gasket Compressed (thickness)	wedge Type
ENGINE LUBRICATION Pump Type. Capacity (qts.). Pump Drive. Operating Pressure at 40 to 50 M.P.H Oil Filter Type. Pressure Drop Resulting from Clogged Filter.	4**
OIL PUMP INSPECTION LIMITS FOR REPLACEMENT Oil Pump Cover (filter base) Outer Rotor Length. Outer Rotor Diameter. Inner Rotor Length. Clearance Over Rotor—Outer. Inner.	
Outer Rotor ClearanceTip Clearance Between Rotors	U12" or more
**When filter is replaced, add 1 quart.	



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