

Studebaker

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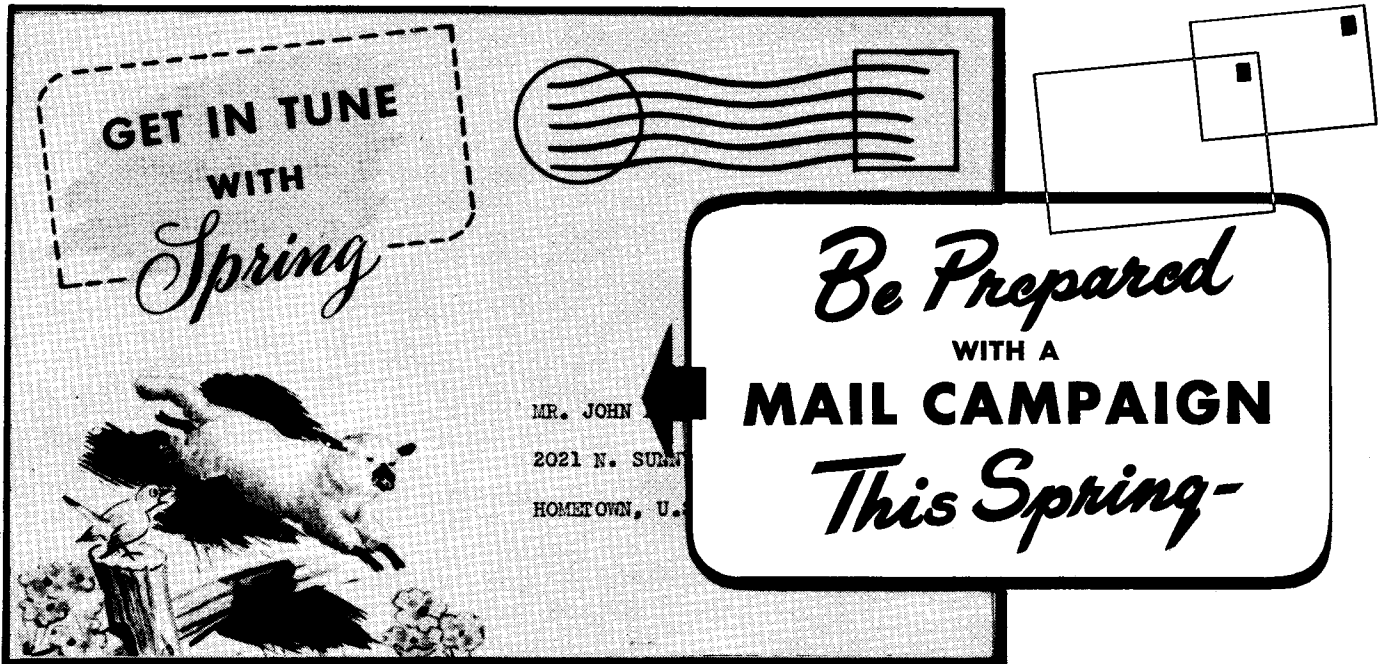
# SERVICE BULLETIN

MARCH

NO. 202



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All over the nation the advent of spring is a signal for cleaning up. Passenger cars and trucks need spring cleaning, too, both internally and externally, to prepare them for increased warm weather use by a carefully planned and thoroughly executed spring conditioning program.

It's time to "Get In Tune With Spring," as indicated in the title of the Donnelley mailing piece reproduced above. Over one million car owners will receive that message during the next few weeks.

Dealers who have not subscribed to the current Donnelley series will want to prepare and mail now a similar promotion card, folder, or letter to their service prospects outlining their own program for the spring service campaign.

All dealers, whether using their own or the Donnelley pieces, will want to support the mailing campaign with telephone solicitation, newspaper, and other advertising.

If your spring service campaign is to be successful, however, your shop should be so clean and inviting that it will clearly re-

flect that you, too, are "In Tune With Spring". Do whatever cleaning, painting, and rearranging is necessary to make that impression on your customers. And make sure that you have the necessary equipment and supplies to properly carry out your spring service program.

You cannot afford to do less if you are really to "Get In Tune With Spring".

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**PARTS AND MATERIALS NEEDED**

Certain supplies, parts, and equipment are essential for satisfactory spring conditioning of passenger cars and trucks.

The items which are usually most in demand are listed below. If you are short any of these items, order them at once so you will not run out when the demand for seasonal service occurs.

**I--Cooling System**

Radiator and Climatizer Hose and Clamps  
 Studebaker Cooling System Cleaner -- AC 1335, AC 1479, or AC 1465  
 Studebaker Rust Inhibitor -- AC 1334 or AC 1480  
 Studebaker Radiator Seal -- AC 1336 or AC 1475  
 Thermostats and Housing Gaskets  
 Fan Belts  
 Water Manifolds  
 Water Jacket Cover Gaskets  
 Water Pump Repair Kits  
 Gasket Cement -- AC 1476

**II--Engine**

Automatic Choke Repair Parts  
 Carburetor Repair Kits and Gaskets  
 Fram Filters and Cartridges  
 Head, Manifold, and Valve Cover Gaskets  
 Fuel Pump Repair Kits  
 Oil Pan Gaskets  
 Oil Strainers  
 Gasket Paste -- S 266, S 267, or S 435

**III--Electrical**

Battery and Ignition Cables  
 Distributor Caps and Rotors  
 Distributor Condensers  
 Distributor Point Sets  
 Fuses and Circuit Breakers  
 "PiB" Liquid Insulation -- AC 1337 and AC 1338  
 Spark Plugs  
 Lamp Bulbs  
 Generator and Starter Brushes  
 Starter and Lighting Switches  
 Bendix Drives

**IV--Brakes**

Brake Hose and Fittings  
 Brake Fluid -- AC 1381, AC 1496, AC 1497, or AC 1498  
 Brake Lining Kits and Rivets  
 Brake Oil Seals  
 Brake Lining, Filler Compound -- S 139  
 Brake Cable Lubricant -- AC 145  
 "Lubri-plate" Lubricant -- S 50

**Supplies**

Dripless Penetrating Oil -- AC 1477, AC 416, AC 418, or AC 419  
 Tar and Road Oil Remover  
 Kasson's Waterproof Grease -- AC 107  
 Shock Absorber Fluid -- AC 1435, AC 1436, AC 1437, AC 1438 -- Houde  
 Shock Absorber Fluid -- AC 483, AC 485 -- Delco  
 Spring Packing Grease -- S 312, S 325  
 Summer Lubricant  
 Wheel Bearing Lubricant  
 Powdered Graphite  
 Stick Lubricant -- Door Ease -- AC 173 or AC 375  
 Windshield Wiper Blades  
 Windshield Wiper Tubing (rubber)  
 Bendix Cleaner -- AC 1328  
 Black Rubber Dressing -- AC 1484  
 Polish and Cleaners -- AC 1488, AC 1470-2-4-etc.  
 General Purpose Rubber Cement -- AC 1567  
 Hypoid Rear Axle Lubricant -- S 297 or S 154  
 Fabric Cleaner -- AC 1481 or AC 1482  
 Chrome Cleaner -- AC 1464, AC 1466, or AC 1485

**EQUIPMENT REQUIREMENTS**

Your spring service campaign should be backed up by equipment designed to perform certain functions accurately and quickly. Here is a list of some equipment which will be in constant use during the spring conditioning program. Keep it in top-notch working order, painted, and cleaned up to let customers see that it is ready for action.

Radiator Flushing Equipment  
 Steering Alignment Equipment  
 Brake Service Equipment  
 Engine Tune-up Equipment  
 Electrical Service Equipment  
 Headlight Service Equipment  
 Valve Reconditioning Equipment  
 Gear Flushing Equipment

**RECOMMENDED SERVICES**

These are the minimum of services which we consider necessary to prepare a car for warm weather driving. They should be given all cars.

Drain and reverse flush cooling system. Check thermostat and heat indicator operation.  
 Check condition of radiator hose and fan belt.  
 Refill cooling system and install Rust Inhibitor.

*Note.-Preserve anti-freeze. See Service Bulletin No. 154, page 6, for detailed storage recommendations.*

- Clean oil pan and inside of engine crankcase using approved flushing method.
- Refill crankcase with spring weight engine oil.
- Install new engine oil filter cartridge if not recently changed.
- Check service and parking brakes for need of adjustment or other service.
- Check wheel alignment (camber, caster, toe-in, king pin inclination) and visually inspect condition of all steering connections.
- Tighten cylinder head and manifold bolts to correct tension.
- Chassis and body lubrication, unless performed within the last 1000 miles, including any seasonal or mileage lubrication requirements.

## MAJOR SPRING CONDITIONING

General body and chassis tightening, safety inspection, lubrication, and other miscellaneous adjustments are listed under the heading of major spring conditioning. These services fulfill a semi-annual need and are most often required when the car has been continuously used under the strain of severe winter driving. We should warn, however, against selling any of these suggested operations or combinations which appear under the various headings, unless it is first determined that need for the work actually exists. These needs are determined by inquiry of owner, examination of car, or road testing.

### Safety Inspection

- Inspect and adjust service and parking brakes.
- Check condition of exhaust, muffler, and tail pipe.
- Check master cylinder fluid level.
- Check wheel alignment (camber, caster, toe-in, king pin inclination) and visually inspect condition of all steering connections.
- Adjust steering gear.
- Check condition of all lamps and aim (align) headlamps.
- Test horn and all lights.
- Examine all tires, check tread depth and rotate tire and wheel assemblies according to tire wear. Inflate to proper pressure. Report condition of tires to owner.
- Test windshield wiper and washer operation and report. Note condition of wiper blades.
- Check climatizer, hose, blower, and valve setting.

## Engine Performance

- Clean spark plugs and adjust gap.
- Check cylinder compression.
- Clean and adjust ignition points.
- Check operation of spark modifier and ignition timing. Set octane selector for type of fuel used.
- Adjust valve tappets.
- Remove, disassemble, clean, and adjust carburetor.
- Service air filter.
- Clean gasoline lines and screens.
- Tighten manifold bolts and nuts to proper tension.
- Tighten cylinder head bolts to proper tension.
- Free up manifold heater valve or report if it is necessary to remove and clean shaft.

*NOTE.-If an excessive spark knock is evident after spring conditioning the engine, remove cylinder head and examine for carbon.*

## Lubrication

- Clean oil pan and inside of crankcase using approved flushing method.
- Remove valve cover plates and clean valve chambers.
- If car is equipped with oil filter, change filter cartridge if not recently changed.
- Flush transmission and change lubricant.
- Flush rear axle and change lubricant.
- Disassemble and repack universal joint bearings (when not equipped with lubrication fittings).
- Lubricate chassis and body completely.
- Clean, repack, and adjust front wheel bearings.
- Clean and repack rear axle shaft bearings.
- Lubricate springs.

## Cooling System

- Drain, reverse flush, and refill cooling system.

*NOTE.-See Service Bulletin No. 154, page 6, for detailed anti-freeze storage recommendations.*

- Check thermostat and heat indicator operation and report.
- Adjust fan belt. Report on condition.
- Check alignment and condition of pulleys.
- Inspect all hose connections. Report on condition.
- Tighten all hose clamps.
- Remove, clean, and oil Climatizer filter.

### Electrical Service

Examine, clean, and tighten all electrical connections.  
Test and fill battery. Adjust hold-down bolts.  
Clean generator commutator.  
Check generator charging rate with instruments. Report results to owner.  
Clean starter motor commutator.  
Check starter motor operation. Report results to owner.

### General Tightening

Tighten all chassis bolts and nuts.  
Tighten wheel bolts.  
Tighten bumper bolts.  
Tighten door hinges.

Examine and lubricate all door locks and hinges.  
Examine window regulators and report necessary repairs.  
Tighten shock absorbers.

### Miscellaneous Inspection and Adjustments

When performing a spring check-up, don't overlook the following inspections and adjustments. They are all important and attention now is insurance against future trouble.

Check gearshift rod adjustment.  
Check overdrive control adjustment.  
Check and adjust clutch pedal travel.  
Check and adjust hood lock and control.  
Fill and adjust shock absorbers.

