

## ACCESSORIES

|                                          | Page        |
|------------------------------------------|-------------|
| Cowl lights—bodies fitted for.....       | 411         |
| Cigar lighter—price.....                 | 379         |
| Clock.....                               | 308-330     |
| Clock—windshield header bracket.....     | 308-444     |
| Cowl lamps.....                          | 329         |
| Cowl lamp lens and gaskets obsolete..... | 529         |
| Fender lamps.....                        | 329         |
| Folder—accessories.....                  | 371         |
| Sales suggestions—accessories.....       | 335         |
| Seat covers.....                         | 348         |
| Seat covers—special carton.....          | 362         |
| Spring covers.....                       | 268-316     |
| Spring cover installation.....           | 268-316-347 |
| Tire cover—fabric.....                   | 228         |
| Tire cover—metal—new.....                | 467-554     |
| Top boots.....                           | 251         |
| Trunk.....                               | 364         |
| Trunk rack.....                          | 355         |
| Windshield wings.....                    | 251         |
| Windshield wing bracket adjustment.....  | 451         |
| Warning—heater removal.....              | 340         |
| Window display—accessories.....          | 334         |

## AXLE—REAR

(Also See Differential)

|                                             |         |
|---------------------------------------------|---------|
| Axle shaft length—new (truck).....          | 375     |
| Axle (truck) description and servicing..... | 413     |
| Axle—changes in shafts and gears.....       | 556     |
| Grease retainer installation.....           | 361-266 |
| Wheel bearing—change.....                   | 557     |

## BATTERY

|                                                       |             |
|-------------------------------------------------------|-------------|
| Battery ground connector bolt and washer—<br>new..... | 441         |
| Battery parts replacement—Model "T".....              | 506         |
| Battery price lowered.....                            | 479         |
| Battery sales suggestions.....                        | 501-551     |
| Battery testing.....                                  | 502-514     |
| Battery trouble.....                                  | 503-505     |
| Bracket—new.....                                      | 290         |
| Cable and support—new.....                            | 395         |
| Cable—old and new.....                                | 289-454     |
| Cable—warning.....                                    | 218-246     |
| Change in parts.....                                  | 400         |
| Check electrolyte.....                                | 302         |
| Failure—causes.....                                   | 391-505     |
| Inspection and cleaning.....                          | 446-505-519 |
| Installation.....                                     | 211         |
| Keep display battery clean.....                       | 514         |
| Price reduction.....                                  | 409         |
| Sale and delivery.....                                | 302         |
| Warning—cover installation.....                       | 302         |

## BEARINGS—MAIN

|                                           |     |
|-------------------------------------------|-----|
| Exchange main bearing caps.....           | 332 |
| Main bearing line reamed measurement..... | 218 |
| Oil grooves in main bearings.....         | 582 |

## BEARINGS—MAIN—Continued

|                                                            | Page    |
|------------------------------------------------------------|---------|
| Rear main bearing cap—cast design.....                     | 336     |
| Rear main bearing cap bolt—new.....                        | 336     |
| Rear main bearing cap—service (rough<br>and finished)..... | 358-395 |
| Rear bearing cap oil pipe assembly.....                    | 306     |
| Rear main bearing cap and bolt.....                        | 411     |
| Rear main bearing cap—oil pipe changed.....                | 441     |
| Warning—oil through rear main bearing.....                 | 326     |

## BENDIX

(See Starter Drive)

## BODY (CAR)

|                                                            |             |
|------------------------------------------------------------|-------------|
| Back curtain fastener.....                                 | 343         |
| Bolts—keep tight.....                                      | 246-371     |
| Bolt reinforcement.....                                    | 395         |
| Business coupe landau irons.....                           | 275         |
| Cabriolet back curtain assembly.....                       | 444         |
| Cabriolet body—sectional view.....                         | 402         |
| Change in door lock assembly.....                          | 569         |
| Cleaning sport coupe top material.....                     | 246-367-444 |
| Coupe seat adjustment.....                                 | 257         |
| Coupe window—adjustable.....                               | 582         |
| Cushion—change in construction.....                        | 467         |
| De Luxe Delivery package tray installation.....            | 369         |
| Designed for cowl lamp installation.....                   | 411         |
| Filler block length increased.....                         | 577         |
| Front seat hinge—short—new.....                            | 438         |
| New coupe deck front pillar.....                           | 566         |
| Panel delivery rear door latch and pillar—<br>new.....     | 344-554     |
| Phaeton and roadster door handles—new.....                 | 302         |
| Rear deck door striker plate relocated.....                | 411         |
| Rear filler block—new.....                                 | 483         |
| Roadster fastener strap.....                               | 444         |
| Roadster side curtains—installation.....                   | 509         |
| Roadster back curtain window frame cushion<br>bumpers..... | 266         |
| Roadster and coupe deck door support—new...                | 283         |
| Sport coupe body sectional view.....                       | 396         |
| Standard coupe body sectional view.....                    | 388         |
| Taxicab rear door handle—new.....                          | 376         |
| Town sedan body sectional view.....                        | 372         |
| Town sedan body squeak.....                                | 354         |
| Tudor front seat adjustment.....                           | 231         |
| Tudor body sectional view.....                             | 380         |
| Ventilation front compartment.....                         | 284         |
| Victoria coupe top deck installation.....                  | 521         |
| Weather strip open car doors.....                          | 447         |
| Window regulator handle.....                               | 244         |

## BODY (TRUCK)

|                                                       |     |
|-------------------------------------------------------|-----|
| Mounting heavy duty hydraulic dump truck<br>body..... | 488 |
| Mounting light duty hydraulic dump truck<br>body..... | 491 |
| Mounting rotary power hoist dump truck body.....      | 493 |



## BODY (TRUCK)—Continued

|                                              | Page |
|----------------------------------------------|------|
| Mounting gravity dump body.....              | 495  |
| Mounting hand hoist dump body.....           | 497  |
| New body pillars for canopy top express..... | 555  |
| Special seat back assembly.....              | 562  |

## BRAKES AND BRAKE LINKAGE

|                                                                                     |             |
|-------------------------------------------------------------------------------------|-------------|
| Adjustment.....                                                                     | 202-259     |
| Brake cross shaft.....                                                              | 259         |
| Brake cross shaft guide (truck)—new.....                                            | 326         |
| Brake cross shaft (lubricator fittings added).....                                  | 276         |
| Brake retracting spring—changed.....                                                | 410         |
| Brake rod retracting spring—attaching to new<br>spring shackle bracket (truck)..... | 464         |
| Brake carrier plate—lugs added.....                                                 | 482         |
| Diagram.....                                                                        | 264-300     |
| Emergency brake adjustment.....                                                     | 265         |
| Emergency brake cross shaft—change.....                                             | 449         |
| Emergency brake equalizing.....                                                     | 265         |
| Emergency brake lever—change.....                                                   | 483         |
| Emergency brake lever bushing (truck).....                                          | 339         |
| Emergency brake lever noise.....                                                    | 337         |
| Emergency brake lever releasing.....                                                | 439         |
| Exchange brake drums.....                                                           | 332         |
| Exchange brake shoes.....                                                           | 332         |
| Housing plate obsoleted.....                                                        | 451         |
| Housing plate rear—new (truck).....                                                 | 411         |
| Installation brake linings.....                                                     | 509         |
| Pedal boss—shortened.....                                                           | 350         |
| Pedal bushing lengthened.....                                                       | 512         |
| Pedal lubricator fitting added.....                                                 | 454         |
| Pedal to cross shaft rod.....                                                       | 284         |
| Pull rod adjustment.....                                                            | 202         |
| Pull rod—non-adjustable type.....                                                   | 259         |
| Rear brake rocker arm—new (truck).....                                              | 328         |
| Rear lever cam lubricator (truck).....                                              | 343         |
| Solid brake cross shaft—installation and<br>adjustment.....                         | 297-299-326 |
| Warning—lubricating car.....                                                        | 230         |
| Warning—machining brake drums.....                                                  | 514         |
| Warning—washing car.....                                                            | 230         |

## BREAKER POINTS

|                                 |             |
|---------------------------------|-------------|
| Adjustment.....                 | 210-346-542 |
| Breaker arm assembly—new.....   | 289         |
| Breaker arm assembly “gyp”..... | 514         |
| Breaker points checking.....    | 439         |
| Cleaning and adjustment.....    | 246-371     |

## BUMPERS

|                                            |     |
|--------------------------------------------|-----|
| Bumper bar—length changed.....             | 484 |
| Bumper bar—spare wheel guard.....          | 467 |
| Bumper cross bar type—rear.....            | 230 |
| Change in rear bumper arm and bracket..... | 563 |
| New truck bumper.....                      | 510 |
| Rear bumper extension—new.....             | 483 |
| Rear bumper arm cross brace.....           | 582 |

## BUSHINGS

|                                                     | Page |
|-----------------------------------------------------|------|
| Bushings marked to insure correct installation..... | 511  |

## CARBON REMOVING

|                              |         |
|------------------------------|---------|
| Carbon removing.....         | 219-220 |
| Carbon removing—warning..... | 246     |

## CARBURETOR

|                                                          |         |
|----------------------------------------------------------|---------|
| Accelerator rod offset on De Luxe phaeton.....           | 465     |
| Adjustments.....                                         | 208     |
| Carburetor used with new cowl tank.....                  | 561     |
| Changes.....                                             | 280     |
| Choke lever—redesigned.....                              | 302     |
| Cleaning.....                                            | 207-258 |
| Cold engine starting.....                                | 208     |
| Cold weather starting.....                               | 208     |
| Diagram.....                                             | 206     |
| Needle valve seat change—seat integral with<br>bowl..... | 415     |
| Parts identification.....                                | 208-443 |
| Replacement of bowl.....                                 | 443     |
| Throttle control assembly—new and old design.....        | 337     |
| Throttle lever stop screw shortened.....                 | 482     |
| Trouble shooting hints.....                              | 207     |

## CLEANERS AND POLISHES

|                                        |             |
|----------------------------------------|-------------|
| Body polish—liquid—Ford.....           | 331         |
| Body polish—liquid—Lincoln.....        | 260         |
| Body polish—wax.....                   | 520         |
| Cleaner—paste.....                     | 520         |
| Cleaner—upholstery.....                | 444         |
| Nickel polish—Lincoln.....             | 260-331     |
| Cleaning sport coupe top material..... | 246-367-444 |

## CLOCK

|                                      |         |
|--------------------------------------|---------|
| Clock.....                           | 308-330 |
| Clock—windshield header bracket..... | 308-444 |

## CLUTCH

|                                                  |             |
|--------------------------------------------------|-------------|
| Assembling.....                                  | 224         |
| Diagram.....                                     | 221         |
| Difference between car and truck.....            | 351         |
| Disassembling.....                               | 223         |
| Disassembling from transmission.....             | 223         |
| Exchange.....                                    | 296         |
| Heat cracks in pressure plate.....               | 398         |
| Housing hand hole cover—new design.....          | 326         |
| Installing in car.....                           | 225         |
| Lubricating release bearing.....                 | 230         |
| Marking changed (truck).....                     | 418         |
| Overhaul.....                                    | 222         |
| Pedal boss—shortened.....                        | 350         |
| Pedal bushing lengthened.....                    | 512         |
| Pedal clearance (correction page 218).....       | 203-398-464 |
| Pedal lubricator fitting added.....              | 454         |
| Pedal shaft replacement.....                     | 336         |
| Plate floor board.....                           | 248         |
| Release arm and fork—change in installation..... | 351         |



**CLUTCH—Continued**

|                                                                  | Page    |
|------------------------------------------------------------------|---------|
| Release bearing hub—longer lubricator fitting added (truck)..... | 422     |
| Release bearing hub—longer lubricator boss (truck).....          | 482     |
| Release shaft bushing—changed (truck).....                       | 482     |
| Release shafts—difference in old and new designs.....            | 509     |
| Single plate—new.....                                            | 296-297 |
| Single plate—new—installation.....                               | 340     |
| Warning—oiling clutch.....                                       | 327     |
| Wear—causes of.....                                              | 221     |

**COIL**

|                    |     |
|--------------------|-----|
| Coil—cleaning..... | 446 |
| Coil—troubles..... | 462 |

**CONNECTING RODS**

|                                       |             |
|---------------------------------------|-------------|
| Aligning.....                         | 314         |
| Exchange.....                         | 332         |
| Fitting.....                          | 218-244-315 |
| Installation.....                     | 244         |
| Markings indicating genuine Ford..... | 519         |
| New—keep separate from old.....       | 375         |
| Reaming.....                          | 315         |

**COVERS**

|                          |             |
|--------------------------|-------------|
| Seat—door—fender.....    | 256-292-348 |
| Seat—special carton..... | 362         |
| Spring.....              | 268-316     |
| Spring—installation..... | 268-347-316 |
| Tire—fabric.....         | 228         |
| Tire—metal—new.....      | 467-554     |
| Top—dust hood.....       | 251         |

**COWL LAMPS**

|                                                 |     |
|-------------------------------------------------|-----|
| Cowl lamps.....                                 | 329 |
| Cowl lamp—lens and gasket obsolete.....         | 529 |
| Bodies designed for cowl lamp installation..... | 411 |

**COWL TANK**

|                                          |     |
|------------------------------------------|-----|
| Cap.....                                 | 257 |
| Cap gasket—new.....                      | 378 |
| Capacity.....                            | 227 |
| Cowl tank—new—in replacement of old..... | 561 |
| Gauge—change in frame.....               | 555 |
| Gauge—repair sticking.....               | 259 |
| Filler screen head—new.....              | 441 |
| Filler screen purpose.....               | 311 |
| New dial and float rod assembly.....     | 463 |
| Valve handle—new.....                    | 337 |
| Warning on gauge removal.....            | 218 |

**CRANKSHAFT**

|                                |     |
|--------------------------------|-----|
| End clearance measurement..... | 218 |
|--------------------------------|-----|

**CURTAIN**

|                                                         | Page |
|---------------------------------------------------------|------|
| Curtain back—cabriolet.....                             | 444  |
| Curtain fastener.....                                   | 343  |
| Curtain—side installation.....                          | 509  |
| Curtain—back window frame cushion bumpers—roadster..... | 266  |

**CUSHION**

|                                     |     |
|-------------------------------------|-----|
| Cushion—change in construction..... | 467 |
|-------------------------------------|-----|

**CUT OUT**

|                                      |     |
|--------------------------------------|-----|
| New bolt for attaching wires to..... | 457 |
|--------------------------------------|-----|

**CYLINDER HEAD**

|                                            |         |
|--------------------------------------------|---------|
| Caution when replacing.....                | 246     |
| Gasket—new.....                            | 382     |
| Keep nuts tight.....                       | 289-375 |
| New design.....                            | 382     |
| New cylinder head outlet hose (truck)..... | 464     |
| Stud—change in length.....                 | 366     |
| Tightening.....                            | 218     |

**DIFFERENTIAL—TRUCK AND CAR**

|                                                           |             |
|-----------------------------------------------------------|-------------|
| Bevel gear—new (truck).....                               | 412-413-414 |
| Bevel gear—replacing worm type (truck).....               | 421         |
| Bevel gears—high speed (truck).....                       | 438         |
| Differential case screw—change (truck).....               | 547-564     |
| Drive gear and pinion—new.....                            | 327         |
| Drive shaft and splines changed (truck).....              | 367         |
| Driving pinion bearing shims (truck).....                 | 421         |
| Driving pinion and gear high speed truck.....             | 438         |
| Driving pinion and retainer (truck).....                  | 545         |
| Gear ratio—how distinguished (truck).....                 | 276         |
| Gear reduction—new (truck).....                           | 421         |
| Housing—changed (truck).....                              | 556         |
| Housing gaskets—new for service (truck).....              | 382         |
| Housing sold in pairs (worm type axle) (truck).....       | 410         |
| Housing reinforcements (truck).....                       | 568         |
| Housing length—new (truck).....                           | 375         |
| Lubrication.....                                          | 375         |
| Oil capacity.....                                         | 227         |
| Oil holes added in driving pinion (car).....              | 410         |
| Thrust bearing cap—new (truck) (correction page 351)..... | 342         |
| Ring gear and differential case (truck)—new... ..         | 421         |

**DISTRIBUTOR**

|                                               |     |
|-----------------------------------------------|-----|
| Distributor body change.....                  | 516 |
| Distributor body notch—not to be altered..... | 480 |
| Distributor breaker arms—"gyp".....           | 514 |
| Distributor cam shafts—drilling.....          | 482 |
| Distributor heat baffle plate.....            | 398 |
| Distributor inspection.....                   | 446 |
| Distributor lubrication.....                  | 246 |

**DRAG LINKS**

|                                     |     |
|-------------------------------------|-----|
| Drag link ball plugs tightened..... | 375 |
| Drag link installation.....         | 290 |

**DUST HOOD**

|                                         |     |
|-----------------------------------------|-----|
| Dust hood—roadster and phaeton top..... | 251 |
|-----------------------------------------|-----|



## ELECTRICAL

|                                 |         |
|---------------------------------|---------|
| Electrical system.....          | 215     |
| Electrolock—Ford type.....      | 213-214 |
| Winter electrical troubles..... | 382-504 |

## ENGINE

|                                                       |             |
|-------------------------------------------------------|-------------|
| Breather cap—new and old.....                         | 326         |
| Breather pipe—new.....                                | 358-454     |
| Camshaft—three bearing.....                           | 311         |
| Camshaft—rear bearing oil hole.....                   | 342-343     |
| Cold weather starting.....                            | 400         |
| Clearances and limits in assembly.....                | 574         |
| Cylinder boring cutter—grinding.....                  | 306         |
| Cylinder block—reinforced.....                        | 359         |
| Cylinder head cautions when replacing.....            | 246         |
| Cylinder head gasket—new.....                         | 382         |
| Cylinder head installation—tightening.....            | 218         |
| Cylinder head—keep nuts tight.....                    | 289-375     |
| Cylinder head—new.....                                | 382         |
| Cylinder head outlet hose—new (truck).....            | 464         |
| Cylinder head stud—change in length.....              | 366         |
| Exhaust manifold—strengthened.....                    | 550         |
| Exhaust manifold gasket—new.....                      | 312-562     |
| Front end support—new flexible (truck).....           | 310         |
| Front end support—new flexible—in-<br>stallation..... | 294-295-296 |
| Front end support—157" truck.....                     | 528         |
| Front end support spring—new.....                     | 358         |
| Front end support spring—strengthened.....            | 582         |
| Front end support spring—truck.....                   | 376         |
| Lubrication.....                                      | 291-302     |
| New valve springs.....                                | 484         |
| Numbers.....                                          | 228-542     |
| Oil capacity.....                                     | 227         |
| Oil pan tray change.....                              | 576         |
| Oil pump shield.....                                  | 576         |
| Overheating.....                                      | 566         |
| Pan change.....                                       | 393         |
| Poor idling.....                                      | 359         |
| Rear support redesigned.....                          | 439         |
| Removing carbon.....                                  | 219-220     |
| Removing carbon—warning.....                          | 246         |

## EXCHANGE POLICIES

|                            |     |
|----------------------------|-----|
| Bearing caps—main.....     | 332 |
| Brake shoes.....           | 332 |
| Brake drums.....           | 332 |
| Clutch.....                | 296 |
| Connecting rods.....       | 332 |
| Generator armature.....    | 332 |
| Hub and drum assembly..... | 332 |

## FAN

|                      |     |
|----------------------|-----|
| Belt adjustment..... | 204 |
|----------------------|-----|

## FENDERS

|                            |     |
|----------------------------|-----|
| Fender lamps.....          | 329 |
| Fordor rear.....           | 394 |
| Front brackets—change..... | 512 |

## FENDERS—Continued

|                                                             |         |
|-------------------------------------------------------------|---------|
| Front brackets—new.....                                     | 394-556 |
| Installation on town sedan, three window<br>or taxicab..... | 360     |
| Well.....                                                   | 249     |
| Well—spare wheel carrier.....                               | 249     |

## FLOOR BOARDS AND MATS

|                                                      |     |
|------------------------------------------------------|-----|
| Floor boards—obsolete (truck).....                   | 392 |
| Floor boards—old design not carried for service..... | 281 |
| Floor mats—dump body.....                            | 534 |
| Floor mats—new design.....                           | 569 |
| Floor mat—obsolete (truck).....                      | 392 |

## FLYWHEEL

|                                                |     |
|------------------------------------------------|-----|
| Bolts changed.....                             | 331 |
| Housing—cleaning for dropped bolts or nuts.... | 423 |
| Housing—drain hole cotter pin—purpose.....     | 218 |
| Housing installation measurement.....          | 218 |
| Installation measurement.....                  | 218 |

## FRAME

|                                                                    |         |
|--------------------------------------------------------------------|---------|
| Cross member front—new.....                                        | 387     |
| Cross member front—new (truck).....                                | 310     |
| Cross member front—new (157" truck).....                           | 528     |
| Cross member front—old design with new<br>spring clip.....         | 312     |
| Cross member front—reinforcement (truck)....                       | 518     |
| New design (truck).....                                            | 553     |
| New 157" truck frame.....                                          | 532     |
| Servicing old style side members and cross<br>members (truck)..... | 443-552 |

## GASOLINE MILEAGE TESTER

|                                                          |     |
|----------------------------------------------------------|-----|
| Gasoline mileage tester—operation.....                   | 485 |
| Gasoline mileage tester—using with new cowl<br>tank..... | 569 |

## GASOLINE TANK (See Cowl Tank)

## GENERATOR

|                                                                  |             |
|------------------------------------------------------------------|-------------|
| Armature—careless handling.....                                  | 391         |
| Changes in generator rear end plate,<br>armature and pulley..... | 345-447-455 |
| Charging rate.....                                               | 209-302-345 |
| Charging rate adjustment.....                                    | 209-258     |
| Cold weather trouble.....                                        | 383         |
| Conduit generator to terminal block—new<br>design.....           | 423         |
| Exchange—armature.....                                           | 332         |
| Inspection and cleaning commutator.....                          | 446-505     |
| Lubrication.....                                                 | 382         |
| New bolt for attaching wires to generator cutout.....            | 457         |
| Special low speed generator for radio equipped<br>cars.....      | 561         |
| Terminal bushing changed.....                                    | 481         |



## GLASS

|                                                | Page |
|------------------------------------------------|------|
| Glass chart.....                               | 250  |
| Installation—windshield.....                   | 226  |
| Markings.....                                  | 563  |
| Warning.....                                   | 230  |
| Shatterproof replacement by other companies... | 424  |

## GREASE RETAINERS

|                                                  |     |
|--------------------------------------------------|-----|
| Grease retainers—correct installation rear axle. | 361 |
| Grease retainers—installation torque tube.....   | 266 |

## HANDLES

|                                         |     |
|-----------------------------------------|-----|
| Handle—door—roadster and phaeton—new... | 302 |
| Handle—door—taxicab—rear.....           | 376 |
| Handle—lighting switch.....             | 517 |
| Handle—window regulator.....            | 244 |

## HANGERS

|                             |     |
|-----------------------------|-----|
| Hangers—spring—changed..... | 546 |
| Check regularly.....        | 537 |

## HOIST

|                                                        |     |
|--------------------------------------------------------|-----|
| Hoist—dump body—(hand) increased<br>lifting power..... | 518 |
| Hoist (hydraulic) engine oil used in cylinder...       | 519 |

## HOOD

|                                      |     |
|--------------------------------------|-----|
| Hood bumper—new.....                 | 561 |
| Hood clip assembly—installation..... | 513 |
| Hood hinge rod—cadmium plated.....   | 562 |
| Hood rattles.....                    | 359 |

## HORN

|                                      |         |
|--------------------------------------|---------|
| Adjustment.....                      | 227-420 |
| Bracket—redesigned.....              | 452     |
| Care.....                            | 227-420 |
| Cold weather trouble.....            | 383     |
| Cover—difference in designs.....     | 266     |
| Inspection and cleaning.....         | 446-505 |
| Instructions for ordering parts..... | 266     |
| Lubrication.....                     | 227-420 |

## HUBS

|                                                         |     |
|---------------------------------------------------------|-----|
| Adapter for scalloped hubs (truck).....                 | 529 |
| Hub bolt markings changed (truck).....                  | 362 |
| Hub bolt nuts (truck).....                              | 302 |
| Hub bolts—new (truck).....                              | 366 |
| Hub caps.....                                           | 282 |
| Hubs—difference.....                                    | 377 |
| Hub and drum assembly—exchange policy....               | 332 |
| Hub and drum assembly—rear installation<br>(truck)..... | 557 |
| Hub front—new.....                                      | 347 |
| Rear hubs—new (truck).....                              | 418 |
| Rear hub bolts—new (truck).....                         | 418 |

## HUBS—Continued

|                                                                 | Page |
|-----------------------------------------------------------------|------|
| Rear hub gasket (truck).....                                    | 276  |
| Rear hub and drum assembly—removing.....                        | 290  |
| Sleeve made integral with hub.....                              | 576  |
| Use “AR” wheels with “AR” hubs—“B” wheels<br>with “B” hubs..... | 328  |
| Warning—machining brake drums.....                              | 514  |

## IGNITION

|                                            |             |
|--------------------------------------------|-------------|
| Coil—cleaning.....                         | 446         |
| Coil troubles.....                         | 452-462     |
| Conduit clip and stud—change.....          | 366         |
| Ignition wire installation—truck.....      | 462         |
| Installation—coil to distributor wire..... | 462         |
| Spark lever—retard when starting.....      | 315         |
| Spark plug gap.....                        | 446-454-542 |
| Spark plug inspection and cleaning.....    | 446         |
| Switch—Ford type electrolock.....          | 213         |
| Timing.....                                | 210-346     |
| Trouble shooting.....                      | 213-214     |
| Warning on electrical work.....            | 246         |

## HEADLAMPS

|                                                           |             |
|-----------------------------------------------------------|-------------|
| Aligning and focusing.....                                | 211-212-323 |
| Bulbs—32 c. p.....                                        | 510         |
| Bulbs—32 c. p.—installation and replacements.             | 572         |
| Bulbs burning out.....                                    | 383-504     |
| Change in plugs and terminals.....                        | 361-457     |
| Flickering.....                                           | 544         |
| Inspection.....                                           | 446         |
| Lighting switch handle assemblies—difference..            | 517         |
| Lighting switch handle assembly—new.....                  | 340         |
| New design.....                                           | 322-323     |
| Single bulb reflector—change.....                         | 362         |
| Switch—inspection and cleaning.....                       | 446         |
| Switch—new design.....                                    | 329         |
| Wire loom—keep away from radiator support<br>bracket..... | 465         |

## HEATER

|                              |     |
|------------------------------|-----|
| Heater—remove in summer..... | 340 |
|------------------------------|-----|

## INSTRUMENT PANEL

|                                               |     |
|-----------------------------------------------|-----|
| Instrument panel light cap.....               | 399 |
| Instrument panel light wire installation..... | 462 |
| Instrument panel screw changed.....           | 466 |

## IRONS

|                                   |     |
|-----------------------------------|-----|
| Irons—business coupe, landau..... | 275 |
|-----------------------------------|-----|

## J

## K

|                 |     |
|-----------------|-----|
| Key record..... | 516 |
| Key sale.....   | 452 |

## L

|                                |         |
|--------------------------------|---------|
| Labor schedule—additional..... | 400-460 |
| Labor schedule—correction..... | 400     |



## LAMPS

|                                                                 | Page        |
|-----------------------------------------------------------------|-------------|
| Cowl lamps.....                                                 | 329         |
| Cowl lamps—bodies designed for installation...                  | 411         |
| Cowl lamp—lens and gaskets obsolete.....                        | 529         |
| Dash lamp—cap.....                                              | 399         |
| Dash lamp wire—installation.....                                | 462         |
| Fender lamps.....                                               | 329         |
| Headlamps—aligning and focusing.....                            | 211-212-323 |
| Headlamp bulbs—32 c. p.....                                     | 510         |
| Headlamp bulbs—32 c. p.—installation and replacements.....      | 572         |
| Headlamp bulbs—burning out.....                                 | 383-505     |
| Headlamp—change in plugs and terminals.....                     | 361-457     |
| Headlamp flickering.....                                        | 544         |
| Headlamp inspection.....                                        | 446         |
| Headlamp lighting switch handle assemblies—difference.....      | 517         |
| Headlamp lighting switch handle assembly—new.....               | 340         |
| Headlamp—new design.....                                        | 322-323     |
| Headlamp reflectors—cleaning.....                               | 577         |
| Headlamp single bulb reflector—change.....                      | 362         |
| Headlamp switch—inspection and cleaning....                     | 446         |
| Headlamp switch—new design.....                                 | 329         |
| Headlamp wire loom—keep away from radiator support bracket..... | 465         |
| Sportlight bulb.....                                            | 572         |
| Sportlight and installation.....                                | 308-327-416 |
| Sportlight bracket and template—new.....                        | 456         |
| Sportlight installation—sedans and cabriolet.....               | 351-360     |
| Sportlight installation—roadster and phaeton...                 | 452         |
| Sportlight installation—victoria coupe.....                     | 534         |
| Stoplight bulb—special 32 c. p.....                             | 572         |
| Stoplight mounting—dump truck bodies.....                       | 498         |
| Stoplight mounting—dump truck bodies—optional method.....       | 566         |
| Stoplight—servicing old design.....                             | 440         |
| Stoplight switch installation—new design.....                   | 416         |
| Stoplight wires—servicing old design.....                       | 440         |

## LICENSE

|                             |     |
|-----------------------------|-----|
| License plate clip—new..... | 351 |
|-----------------------------|-----|

## LOCK

|                                                           |         |
|-----------------------------------------------------------|---------|
| Lock cylinders—interchangeable.....                       | 516-544 |
| Lock cylinders—removing.....                              | 528     |
| Lock cylinder A-46116-R obsoleted.....                    | 577     |
| Lock—door—change.....                                     | 569     |
| Lock—spare wheel and tire.....                            | 267     |
| Lock—spare wheel and tire (interchangeable cylinder)..... | 556     |
| Lock—spare wheel and tire (fender well).....              | 267     |
| Lock—spare wheel and tire (taxicab).....                  | 331     |

## LUBRICATION

|                                                         |         |
|---------------------------------------------------------|---------|
| Chart.....                                              | 216     |
| Differential.....                                       | 375     |
| Engine.....                                             | 291     |
| Front spring through hole in starter crank bearing..... | 359-360 |

## LUBRICATION—Continued

|                                                            | Page    |
|------------------------------------------------------------|---------|
| Generator.....                                             | 382     |
| "Gyp" fittings.....                                        | 424     |
| New lubricator fitting brake cross shaft.....              | 276     |
| New lubricator fitting brake pedal.....                    | 454     |
| New lubricator fitting clutch release bearing (truck)..... | 422     |
| New lubricator fitting clutch pedal.....                   | 454     |
| New lubricator fitting steering gear housing....           | 281     |
| New lubricator fitting water pump cover.....               | 454     |
| New lubricant front wheel bearings.....                    | 568     |
| Power take-off.....                                        | 550     |
| Rear brake cam (truck).....                                | 343     |
| Rear brake camshaft.....                                   | 230     |
| Steering gear.....                                         | 377     |
| Shock absorber connecting links.....                       | 205-568 |
| Transmission.....                                          | 227-375 |
| Warning—oiling distributor.....                            | 246     |

## MANIFOLD

|                                    |         |
|------------------------------------|---------|
| Manifold—exhaust—strengthened..... | 550     |
| Manifold—gasket—new.....           | 312-562 |

## MISCELLANEOUS

|                                 |                    |
|---------------------------------|--------------------|
| Clean shop.....                 | 292 and 470 to 478 |
| "Gyp" bearings.....             | 460                |
| "Gyp" parts.....                | 424-460-550        |
| Power car washer.....           | 275                |
| Repair order—show mileage.....  | 371                |
| Squeaks.....                    | 359                |
| Window display.....             | 285-374-479        |
| Winter electrical troubles..... | 382-504            |

## MUFFLER

|                                                 |     |
|-------------------------------------------------|-----|
| Long outlet pipe installation.....              | 558 |
| Outlet pipe bracket (truck) obsoleted.....      | 442 |
| Outlet pipe clamp—new.....                      | 327 |
| Outlet pipe station wagon and panel delivery... | 532 |

## N

|                             |     |
|-----------------------------|-----|
| Numbering system—parts..... | 578 |
| Oil pan tray lowered.....   | 576 |

## OIL PUMP

|                              |     |
|------------------------------|-----|
| Body and bushing change..... | 394 |
| Shaft change.....            | 238 |
| Shield.....                  | 576 |
| Spring installation.....     | 423 |

## P

|                                                |     |
|------------------------------------------------|-----|
| Package tray installation—De Luxe delivery.... | 369 |
|------------------------------------------------|-----|

## PAINT

|                   |     |
|-------------------|-----|
| Body colors.....  | 310 |
| Solicitation..... | 228 |



## PARTS

|                              | Page        |
|------------------------------|-------------|
| Parts numbering system ..... | 578         |
| "Gyp" parts .....            | 424-460-550 |

## PEDALS (BRAKE AND CLUTCH)

|                                                    |             |
|----------------------------------------------------|-------------|
| Brake and clutch pedal boss shortened.....         | 350         |
| Brake and clutch pedal bushing lengthened....      | 512         |
| Brake and clutch pedal lubricator fitting added.   | 454         |
| Clutch pedal clearance (correction page 218) ..... | 203-398-464 |

## PISTONS

|                                       |             |
|---------------------------------------|-------------|
| Fitting.....                          | 204-455     |
| Markings on pistons.....              | 545         |
| New slotted and old strut design..... | 339         |
| Oil holes in piston.....              | 576         |
| Pin retainer.....                     | 358-366     |
| Pin retainer—service.....             | 366         |
| Pin retainer service—new.....         | 390         |
| Rings—fitting.....                    | 204         |
| Rings—oversize.....                   | 508         |
| Ring pressure.....                    | 576         |
| Solid skirt—new.....                  | 312-313     |
| Wrist pins—change in diameter.....    | 339         |
| Wrist pin fitting.....                | 218         |
| Wrist pin fitting.....                | 231-306-455 |
| Wrist pins—"gyp".....                 | 460         |

## PIVOT (SPRING)

|                                                |     |
|------------------------------------------------|-----|
| Pivot bracket (spring) reinforced (truck)..... | 484 |
| Pivot seat (spring)—change (truck).....        | 546 |
| Pivot seat bushing (spring)—change (truck).... | 547 |

## POLISHES AND CLEANERS

|                                 |         |
|---------------------------------|---------|
| Body polish—liquid—Ford.....    | 331     |
| Body polish—liquid—Lincoln..... | 260     |
| Body polish—wax.....            | 520     |
| Cleaner—paste.....              | 520     |
| Cleaner—upholstery.....         | 444     |
| Nickel polish—Lincoln.....      | 260-331 |

## POWER TAKE-OFF

|                                            |         |
|--------------------------------------------|---------|
| Power take-off—assembly and disassembly... | 548-549 |
|--------------------------------------------|---------|

## RADIATOR

|                                                               |             |
|---------------------------------------------------------------|-------------|
| Anti-freeze solution.....                                     | 288-386-520 |
| Anti-freeze solution—check cooling system before filling..... | 375         |
| Bolt and nut—do not tighten too tight.....                    | 377         |
| Bolt and spring change.....                                   | 451-452     |
| Cap.....                                                      | 257         |
| Cap gasket—do not mix with cowl tank cap gasket.....          | 378         |
| Cap with Moto-Meter.....                                      | 267         |
| Cap with ornament.....                                        | 267         |
| Capacity.....                                                 | 227         |
| Cleaning.....                                                 | 452         |

## RADIATOR—Continued

|                                               | Page |
|-----------------------------------------------|------|
| Filler flange installation (1930).....        | 419  |
| Inspect hose connections.....                 | 302  |
| Splash plate—new and old.....                 | 450  |
| Truck—new.....                                | 450  |
| Special radiator rod for service (truck)..... | 448  |

## RADIUS ROD

|                            |     |
|----------------------------|-----|
| Ball end installation..... | 218 |
| Front—new (truck).....     | 392 |

## REAR VIEW MIRROR

|                               |     |
|-------------------------------|-----|
| Bracket—change.....           | 562 |
| Bracket—length increased..... | 440 |
| Bracket—obsolete.....         | 562 |
| Mirror—change.....            | 562 |

## RECORDS

|                                     |     |
|-------------------------------------|-----|
| Repair orders.....                  | 371 |
| Repair order for minor repairs..... | 401 |
| Service follow up.....              | 252 |
| Service follow up report.....       | 401 |

## SEAT

|                                         |     |
|-----------------------------------------|-----|
| Seat adjustment—coupe.....              | 257 |
| Seat adjustment—Tudor.....              | 231 |
| Seat back assembly—special (truck)..... | 562 |

## SERVICE RECORDS

|                                 |     |
|---------------------------------|-----|
| Follow up.....                  | 252 |
| Inspections.....                | 302 |
| Repair orders—show mileage..... | 371 |

## SHACKLES

|                                                                     |     |
|---------------------------------------------------------------------|-----|
| Shackle bracket (spring)—new (truck).....                           | 464 |
| Shackle bushing (spring)—installation (truck)..                     | 347 |
| Shackles—long (spring)—to lower loading height of body (truck)..... | 552 |

## SHOCK ABSORBERS

|                                            |                 |
|--------------------------------------------|-----------------|
| Adjustment (correction page 311)...        | 205-258-302-353 |
| Adjustment—change in method.....           | 282             |
| Adjustment—warm weather.....               | 446             |
| Arm changed (width of boss increased)..... | 367             |
| Arm changed.....                           | 455             |
| Care.....                                  | 205             |
| Change in needle valve.....                | 511-562         |
| Clamp bolt nut tightened.....              | 218             |
| Lubricating connecting links.....          | 205-568         |
| New shock absorber fluid.....              | 467             |
| Perch ball—new—not integral with perch.... | 419             |
| Pointer striking brake rods.....           | 282             |
| Service instructions.....                  | 536-573         |
| Warm weather inspections.....              | 446             |



## SPARK

|                                         | Page        |
|-----------------------------------------|-------------|
| Spark lever—retard when starting.....   | 315         |
| Spark plug gap.....                     | 446-454-542 |
| Spark plug inspection and cleaning..... | 446         |

## SPARE WHEEL LOCKS AND CARRIERS

|                                                           |         |
|-----------------------------------------------------------|---------|
| Spare wheel carrier—fender well correct installation..... | 249-508 |
| Spare wheel carrier—truck mounting.....                   | 528     |
| Spare wheel carrier strengthened.....                     | 511     |
| Spare wheel and tire lock.....                            | 267     |
| Spare wheel and tire lock—interchangeable cylinders.....  | 556     |
| Spare wheel and tire lock—taxicab.....                    | 331     |
| Spare wheel lock for fender well.....                     | 267     |

## SPEEDOMETER

|                                       |         |
|---------------------------------------|---------|
| Change in speedometer gear shaft..... | 568     |
| Change in speedometer parts.....      | 466     |
| Changing—correct method.....          | 375     |
| Driving gear information.....         | 392-393 |
| Gear change.....                      | 415     |
| Gears—different ratio axles.....      | 438     |
| Removing from car.....                | 246     |
| Service instructions.....             | 276     |

## SPINDLE

|                                  |     |
|----------------------------------|-----|
| Spindle arm change.....          | 282 |
| Spindle bolt bearing change..... | 282 |
| Spindle bolts—new.....           | 378 |
| Spindle bolt lock pin—new.....   | 378 |

## SPORTLIGHT

|                                                     |             |
|-----------------------------------------------------|-------------|
| Sportlight bulb.....                                | 572         |
| Sportlight and installation.....                    | 308-327-416 |
| Sportlight bracket and template—new.....            | 456         |
| Sportlight installation—sedans and cab-briolet..... | 351-360     |
| Sportlight installation—roadster and phaeton...     | 452         |
| Sportlight installation—Victoria coupe.....         | 534         |

## SPRINGS AND PARTS (CHASSIS)

|                                               |         |
|-----------------------------------------------|---------|
| Clamp rear spring—location changed (truck)... | 552     |
| Clip bar—redesigned.....                      | 367     |
| Clip bar spacer—new (truck).....              | 399     |
| Clip bolt and nuts—change (truck).....        | 546     |
| Clip front—change (truck).....                | 312     |
| Clip—keep nuts tight (truck).....             | 534     |
| Clip front—new.....                           | 419     |
| Correct springs for body types.....           | 533     |
| Covers—installation.....                      | 268-316 |
| Front spring—heavy duty—for car.....          | 510     |
| Front spring—installation.....                | 276     |
| Front spring—new (truck).....                 | 371     |
| Front spring—service (truck).....             | 450     |
| Hangers—change.....                           | 546     |
| Hangers—check regularly.....                  | 539     |

SPRINGS AND PARTS (CHASSIS)  
Continued

|                                                                            | Page |
|----------------------------------------------------------------------------|------|
| Perch ball—new—not integral with perch ....                                | 419  |
| Pivot bracket reinforced (truck).....                                      | 484  |
| Pivot seat—change (truck).....                                             | 546  |
| Pivot seat bushing—changed (truck).....                                    | 547  |
| Rear spring—correct installation (truck).....                              | 451  |
| Rear spring—heavy duty (truck).....                                        | 565  |
| Rear spring—light duty—for fragile loads (truck).....                      | 544  |
| Rear spring—special—48".....                                               | 565  |
| Shackle bracket—new (truck).....                                           | 464  |
| Shackle bushing—installation (truck).....                                  | 347  |
| Shackles—long—to lower loading height of body (truck).....                 | 552  |
| Size of hole in auxiliary spring (engine front end support)—increased..... | 463  |
| Spring seats—correct installation (truck).....                             | 532  |
| Spring seat—nut acts as stop for spring seat....                           | 565  |
| Springs used under model "A" and "AA" chassis                              | 580  |

## SPRINGS (MISCELLANEOUS)

|                                                                                  |     |
|----------------------------------------------------------------------------------|-----|
| Brake retracting spring—changed.....                                             | 410 |
| Brake rod retracting spring—attaching to new spring shackle bracket (truck)..... | 464 |
| Engine front end support—new.....                                                | 358 |
| Engine front end support—truck.....                                              | 376 |
| Engine front end support—size of hole in auxiliary spring increased.....         | 463 |
| Starter drive head springs.....                                                  | 571 |
| Starter switch spring—new.....                                                   | 289 |

## STARTER DRIVE

|                                          |             |
|------------------------------------------|-------------|
| Bendix drive service suggestions.....    | 512         |
| Bendix drive special replacement.....    | 303-304-305 |
| Bushing—rear end plate not serviced..... | 360         |
| Cold weather starting.....               | 400         |
| Cold weather trouble.....                | 382-383     |
| Drive heads.....                         | 572         |
| Drive parts special.....                 | 288         |
| Drive service only—new.....              | 284         |
| Installing service sleeves.....          | 571         |
| Motor inspection—cleaning commutator.... | 446-505     |
| Pinion.....                              | 238         |
| Push rod grommet—new.....                | 506         |
| Removing starter.....                    | 238         |
| Screw starter drive shaft.....           | 570         |
| Screw starter drive spring.....          | 570         |
| Service Bendix sleeve.....               | 400         |
| Springs—starter drive head.....          | 571         |
| Switch spring—new.....                   | 289         |

## STARTER CRANK

|                                        |     |
|----------------------------------------|-----|
| Crank bearing—new.....                 | 419 |
| Oil hole in starter crank bearing..... | 359 |

## STEERING GEAR

|                                       |         |
|---------------------------------------|---------|
| Adjustment.....                       | 240-241 |
| Adjustment two-tooth sector type..... | 318-363 |



## STEERING GEAR—Continued

|                                                    | Page    |
|----------------------------------------------------|---------|
| Assembling.....                                    | 321-243 |
| Column upper bushing installation.....             | 399     |
| Disassembling.....                                 | 242-321 |
| Diagram.....                                       | 240     |
| Housing bushing—change.....                        | 463     |
| Housing gasket—change.....                         | 481     |
| Inspection.....                                    | 243     |
| Installation.....                                  | 244     |
| Lubrication.....                                   | 244-377 |
| Lubricator fitting changed to plug.....            | 383     |
| Lubricator fitting added.....                      | 281     |
| New—installation and inspection.....               | 318-322 |
| Oil capacity.....                                  | 227     |
| Removing.....                                      | 241     |
| Shaft worm and bearing—change.....                 | 481-517 |
| Steering column lengthened.....                    | 422     |
| Warning—anti-shimmy devices.....                   | 311     |
| Wheel installation—obstructs speedometer view..... | 230     |
| Worm thrust bearing—change.....                    | 282     |

## STOPLIGHT

|                                          |     |
|------------------------------------------|-----|
| Mounting—dump truck bodies.....          | 498 |
| Mounting—dump truck optional method..... | 566 |
| Old—servicing.....                       | 440 |
| Switch installation—new design.....      | 416 |
| Wires—servicing old design.....          | 440 |

## SUPPORT—ENGINE FRONT END

|                                                             |             |
|-------------------------------------------------------------|-------------|
| Spring—engine front support strengthened....                | 582         |
| Spring—engine front end support—new.....                    | 358         |
| Spring—engine front end support—truck.....                  | 376         |
| Support—engine front end—new flexible<br>(truck).....       | 310         |
| Support—engine front end—new flexible—<br>installation..... | 294-295-296 |
| Support—engine front end—157" truck.....                    | 528         |
| Support—engine front end—size of hole in—<br>creased.....   | 463         |

## THROTTLE (CARBURETOR)

|                                            |     |
|--------------------------------------------|-----|
| Control assembly—new and old design.....   | 337 |
| Control rod offset on De Luxe phaeton..... | 465 |
| Lever stop screw shortened.....            | 482 |

## TIMING

|                                                |             |
|------------------------------------------------|-------------|
| Time gear—fitting measurement.....             | 218         |
| Time gear—installation marks.....              | 228         |
| Time gear—test for looseness causing knock.... | 422         |
| Timing ignition.....                           | 210-211-346 |
| Timing—warning.....                            | 480         |

## TIRES

|                                |         |
|--------------------------------|---------|
| Fabric cover installation..... | 228-371 |
| Gauges.....                    | 268     |
| Marking.....                   | 218     |
| Metal tire covers.....         | 467-554 |

## TIRES—Continued

|                                                             | Page    |
|-------------------------------------------------------------|---------|
| Mounting correctly.....                                     | 307     |
| Pressure.....                                               | 231-330 |
| Recommendation—4.75 x 19.....                               | 424     |
| Replacements and spares.....                                | 231     |
| Service instructions.....                                   | 307     |
| Tire carrier side panel strap plate (AA panel)—<br>new..... | 368     |
| Tires used on truck.....                                    | 410     |
| Tread wear variable.....                                    | 330     |
| Valve stem double angle (truck).....                        | 456     |
| Wear front wheels.....                                      | 283     |

## TOOLS

|                                      |         |
|--------------------------------------|---------|
| Axle—front and rear.....             | 272     |
| Axle—front and rear—how used.....    | 273-274 |
| Care and condition.....              | 332     |
| Cylinder boring cutter—grinding..... | 306     |
| Drive pinion bearing lock nut.....   | 340     |
| Power car washer.....                | 275     |
| Valve grinding vacuum cup.....       | 204     |

## TOP

|                                                                    |             |
|--------------------------------------------------------------------|-------------|
| Top boots—roadster and phaeton.....                                | 251         |
| Top—cleaning—sport coupe.....                                      | 246-367-444 |
| Top deck installation—Victoria coupe.....                          | 521         |
| Top—stack fastener strap—roadster.....                             | 444         |
| Water repellent solution (for stopping leaks in<br>top decks)..... | 390         |

## TORQUE TUBE

|                                   |     |
|-----------------------------------|-----|
| Grease retainer installation..... | 266 |
| Lubricator fittings added.....    | 463 |
| Roller bearing sleeve—change..... | 513 |

## TRANSMISSION

|                                                                |         |
|----------------------------------------------------------------|---------|
| Assembling (correction page 244).....                          | 234     |
| Bearing spacer—new.....                                        | 387     |
| Careless gear shifting.....                                    | 387     |
| Case—change.....                                               | 311     |
| Countershaft and reverse idler shaft—changed..                 | 391     |
| Diagram—four speed.....                                        | 386     |
| Disassembling (correction page 244).....                       | 233-234 |
| Dual high transmission lubricant.....                          | 281     |
| Four speed AA trucks.....                                      | 385     |
| Gear shift housing cap.....                                    | 513     |
| How it operates.....                                           | 232-385 |
| Idler shaft change.....                                        | 312     |
| Inspection.....                                                | 234     |
| Lubrication.....                                               | 375     |
| Oil capacity.....                                              | 227     |
| Retainer and oil baffle—new.....                               | 379     |
| Shifter lever four speed transmission—adjust-<br>ment.....     | 442     |
| Shifter shaft and interlock (truck)—change.....                | 420     |
| Slipping out of intermediate.....                              | 303     |
| Sliding gears on main shaft—accurate fit.....                  | 303     |
| Transmission main shaft bearing retainer bolt<br>—changed..... | 465     |



## TRUNK

|                                   | Page |
|-----------------------------------|------|
| Trunk (luggage carrier).....      | 364  |
| Trunk (luggage carrier) rack..... | 355  |

## UNIVERSAL JOINTS

|                                           |     |
|-------------------------------------------|-----|
| Assembly and coupling—change (truck)..... | 414 |
| Housing cap—change.....                   | 350 |
| Hydraulic dump truck bodies.....          | 547 |
| Lubrication (truck).....                  | 398 |
| Noisy.....                                | 510 |
| New (truck).....                          | 545 |
| Ring rivets shearing.....                 | 395 |
| Servicing A and AA universal joints.....  | 564 |
| Splines changed.....                      | 367 |

## VALVES

|                                                     |         |
|-----------------------------------------------------|---------|
| Clearance from push rods (correction page 347)..... | 338     |
| Guide bushing changed.....                          | 358     |
| Grinding and carbon cleaning.....                   | 219-220 |
| Grinding and push rod clearances.....               | 231     |
| New exhaust valves.....                             | 529     |
| New valve springs.....                              | 484     |
| Vacuum cup grinder.....                             | 204     |
| Valve chamber cover—change.....                     | 342     |
| Valves—"gyp".....                                   | 519-550 |
| Warning on cleaning carbon.....                     | 246     |
| Warning replacing cylinder head.....                | 246     |

## WATER PUMP

|                                   |         |
|-----------------------------------|---------|
| Impeller washer installation..... | 418     |
| New bushings.....                 | 339     |
| New lubricator fittings.....      | 454     |
| Packing and installation.....     | 260     |
| Split ring packing.....           | 378-379 |
| Stopping leak at pump shaft.....  | 204-230 |

## WHEELS

|                                                                   |         |
|-------------------------------------------------------------------|---------|
| Bearing front adjustment.....                                     | 203-238 |
| Bearing rear wheel—change (truck).....                            | 556     |
| Change in truck disc wheel.....                                   | 552     |
| Checking front wheels for side play.....                          | 203     |
| Correct method of installing truck dual wheels.....               | 458     |
| Dual wheels distance between tires increased.....                 | 528     |
| Front alignment and adjustment.....                               | 239     |
| Front alignment gauge.....                                        | 239     |
| Front alignment.....                                              | 282     |
| Front alignment—check after tightening ball<br>plugs.....         | 375     |
| Front camber.....                                                 | 239-282 |
| Front wheel bearings—new lubricant.....                           | 568     |
| Strap plate side wheel carrier—AA panel.....                      | 368     |
| Side wheel carrier mounting (correction page<br>542) (truck)..... | 528     |
| Use "AR" wheels with "AR" hubs; "B" wheels<br>with "B" hubs.....  | 328     |

## WHEELS—Continued

|                                                        | Page    |
|--------------------------------------------------------|---------|
| Wheel carrier—correct installation fender<br>well..... | 249-508 |
| Wheel carrier assembly strengthened.....               | 511     |
| Wheel carrier assembly—warning mounting<br>wheel.....  | 550     |

## WINDOW

|                                           |     |
|-------------------------------------------|-----|
| De Luxe coupe back window—adjustable..... | 582 |
|-------------------------------------------|-----|

## WINDSHIELD

|                                     |     |
|-------------------------------------|-----|
| Glass warning.....                  | 230 |
| Header leak.....                    | 355 |
| Installation.....                   | 226 |
| Replacement by other companies..... | 424 |
| Window glass markings.....          | 563 |
| Ventilation front compartment.....  | 284 |
| Wings.....                          | 251 |
| Wing bracket adjustment.....        | 451 |

## WINDSHIELD WIPER

|                                                                 |                 |
|-----------------------------------------------------------------|-----------------|
| Automatic.....                                                  | 306             |
| Blade.....                                                      | 371-439         |
| Installation electric wiper.....                                | 247-465         |
| Installation vacuum wiper.....                                  | 370             |
| Inspection and cleaning—electric wiper.....                     | 446-505         |
| Gears—electric wiper.....                                       | 577             |
| Operating arm installation.....                                 | 441             |
| Parts list (correction page 416).....                           | 408             |
| Removing from car.....                                          | 247             |
| Repair—electric wiper.....                                      | 404-405-406-407 |
| Service instructions—electric wiper.....                        | 246-247-248     |
| Service replacement—"A" design with "B"<br>design—electric..... | 327             |
| Winter trouble—electric wiper.....                              | 383             |
| Wire installation on present roadster stanchion.....            | 465             |

## WIRING

|                                                             |         |
|-------------------------------------------------------------|---------|
| Change ammeter and switch wiring.....                       | 390     |
| Clip—headlight wire to hood sill.....                       | 336     |
| Coil to distributor wire installation.....                  | 462     |
| Conduit—terminal block to generator—new<br>design.....      | 423     |
| Diagram with and without cowl lights.....                   | 324     |
| Diagrams.....                                               | 214-215 |
| Diagram—De Luxe Coupe.....                                  | 468     |
| Diagram—Fordor.....                                         | 291-468 |
| Diagram—Town Sedan.....                                     | 356-468 |
| Ignition wire installation (truck).....                     | 462     |
| Instrument panel light wire.....                            | 462     |
| Loom—keep away from radiator support bracket.....           | 465     |
| Warning—disconnecting wires from instru-<br>ment panel..... | 218     |