



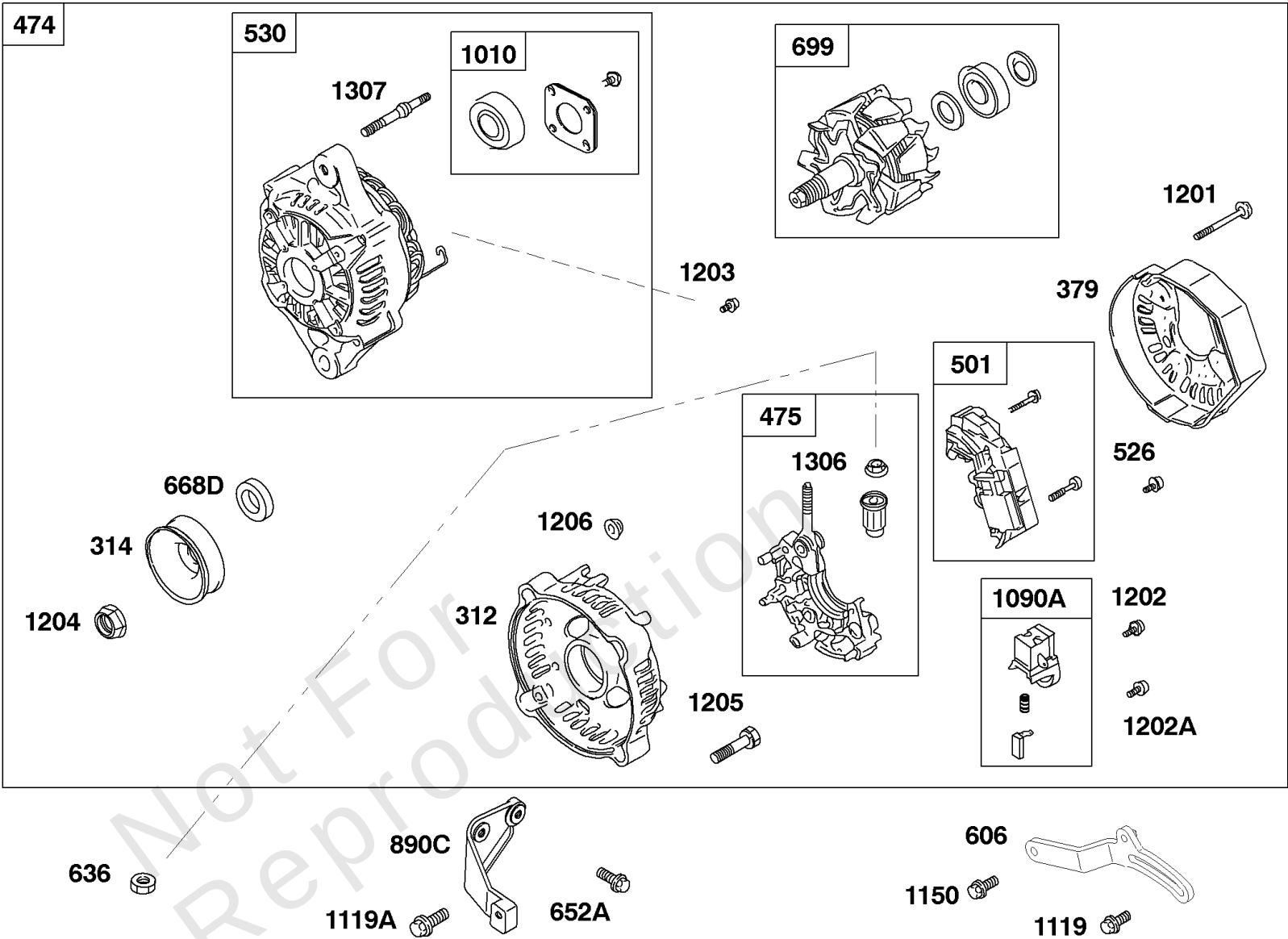
# Parts Manual

Mfg. No: 580447-0205-E2



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40 AMP

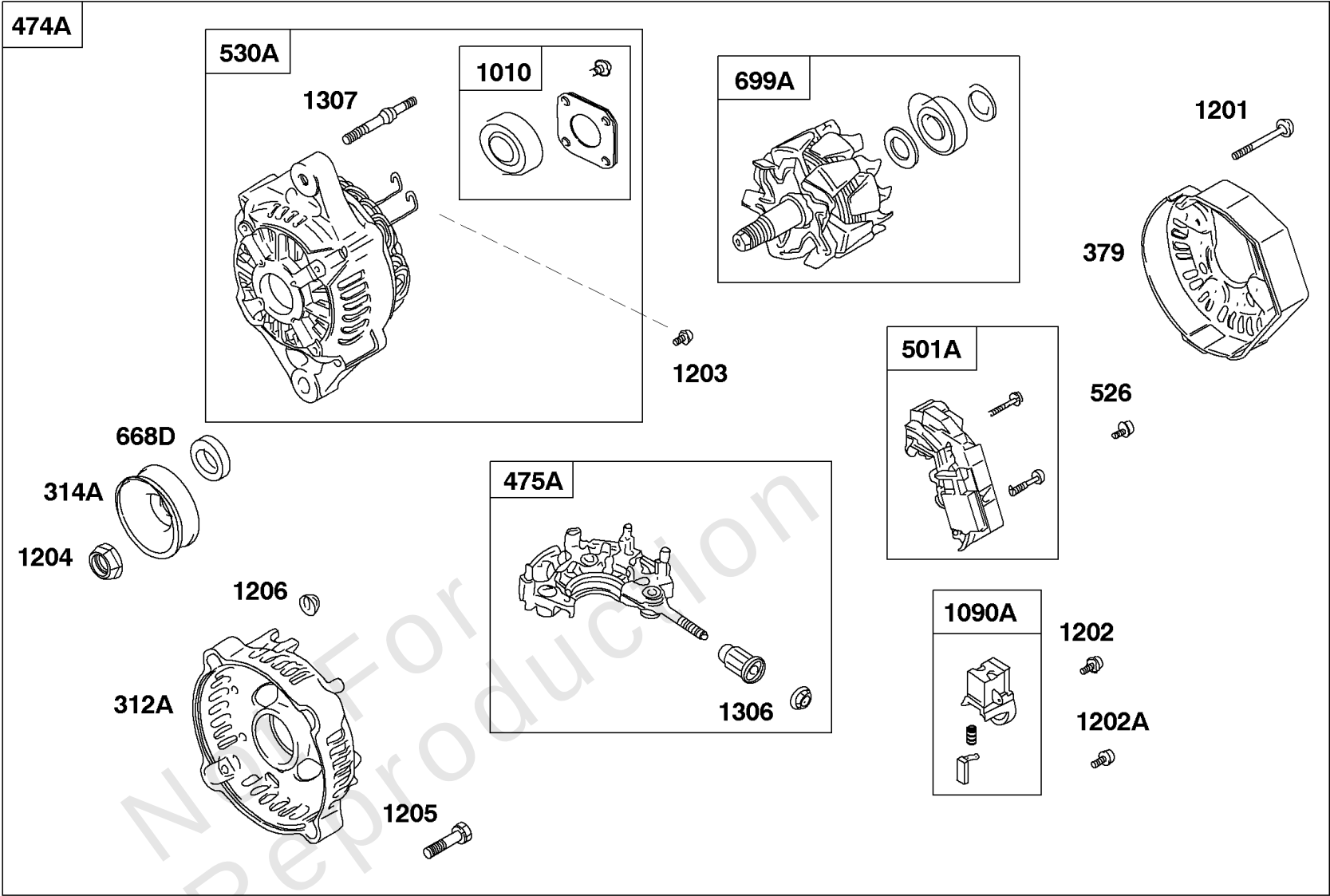


| REF. NO. | PART NO. | DESCRIPTION                                   | REF. NO. | PART NO. | DESCRIPTION                                   | REF. NO. | PART NO. | DESCRIPTION                  |
|----------|----------|-----------------------------------------------|----------|----------|-----------------------------------------------|----------|----------|------------------------------|
| 312      | 820692   | Housing-Brush End                             | 668D     | 820713   | Spacer<br>(Rotor Assembly)                    | 1201     | 820715   | Screw<br>(Brush Cover)       |
| 314      | 820711   | Pulley-Alternator                             | 699      | 825390   | Rotor Assembly                                | 1202     | 820701   | Screw<br>(Brush Retainer)    |
| 379      | 820703   | Cover-Brush                                   | 890C     | 820213   | Bracket-Support<br>(40 and 60 Amp)            | 1202A    | 820702   | Screw<br>(Brush Retainer)    |
| 474      | 825084   | Alternator                                    | 1010     | 825384   | Retainer-Bearing<br>(40 and 60 Amp)           | 1203     | 820702   | Screw<br>(Ground Terminal)   |
| 475      | 825385   | Rectifier                                     | 1090A    | 825387   | Retainer-Brush<br>(Alternator)                | 1204     | 820705   | Nut<br>(Alternator Pulley)   |
| 501      | 825388   | Regulator                                     | 1119     | 820483   | Screw<br>(40 and 60 Amp)                      | 1205     | 820707   | Screw<br>(Brush End Housing) |
| 526      | 820702   | Screw<br>(Regulator)                          | 1119A    | 820270   | Screw<br>(Alternator)                         | 1206     | 820709   | Nut<br>(Brush End Housing)   |
| 530      | 825383   | Housing-Drive End                             | 1150     | 820023   | Screw<br>(Adjusting Strap)<br>(40 and 60 Amp) | 1306     | 820781   | Nut<br>(Rectifier)           |
| 606      | 820819   | Strap-Adjusting<br>(40 and 60 Amp)            |          |          |                                               | 1307     | 820690   | Stud<br>(Drive End Housing)  |
| 636      | 820069   | Nut<br>(Starting Switch)<br>(40 and 60 Amp)   |          |          |                                               |          |          |                              |
| 652A     | 820275   | Screw<br>(Support Bracket)<br>(40 and 60 Amp) |          |          |                                               |          |          |                              |

## Alternator, 40 AMP

| REF NO | PART NO | QTY | DESCRIPTION                                 |
|--------|---------|-----|---------------------------------------------|
| 312    | 820692  |     | HOUSING, Brush End                          |
| 314    | 820711  |     | PULLEY, Alternator                          |
| 379    | 820703  |     | COVER, Brush                                |
| 474    | 825084  |     | ALTERNATOR<br>-(40 Amp)                     |
| 475    | 825385  |     | RECTIFIER                                   |
| 501    | 825388  |     | REGULATOR                                   |
| 526    | 820702  |     | SCREW<br>-(Regulator)                       |
| 530    | 825383  |     | HOUSING, Drive End                          |
| 606    | 820819  |     | STRAP, Adjusting<br>-(40 and 60 AMP)        |
| 636    | 820069  |     | NUT<br>-(Starting Switch) (40 and 60 AMP)   |
| 652A   | 820275  |     | SCREW<br>-(Support Bracket) (40 and 60 AMP) |
| 668D   | 820713  |     | SPACER<br>-(Rotor Assembly)                 |
| 699    | 825390  |     | ROTOR ASSEMBLY                              |
| 890C   | 820213  |     | BRACKET, Support<br>-(40 and 60 AMP)        |
| 1010   | 825384  |     | RETAINER, Bearing                           |
| 1090A  | 825387  |     | RETAINER, Brush                             |
| 1119   | 820483  |     | SCREW<br>-(Alternator) (40 and 60 AMP)      |
| 1119A  | 820270  |     | SCREW<br>-(Alternator) (40 and 60 AMP)      |
| 1150   | 820023  |     | SCREW<br>-(Adjusting Strap) (40 and 60 AMP) |
| 1201   | 820715  |     | SCREW<br>-(Brush Cover)                     |
| 1202   | 820701  |     | SCREW<br>-(Brush Retainer)                  |
| 1202A  | 820702  |     | SCREW<br>-(Brush Retainer)                  |
| 1203   | 820702  |     | SCREW<br>-(Stator Wire)                     |
| 1204   | 820705  |     | NUT<br>-(Alternator Pulley)                 |
| 1205   | 820707  |     | SCREW<br>-(Brush End Housing)               |
| 1206   | 820709  |     | NUT<br>-(Brush End Housing)                 |
| 1306   | 820781  |     | NUT<br>-(Rectifier)                         |
| 1307   | 820690  |     | STUD<br>-(Drive End Housing)                |

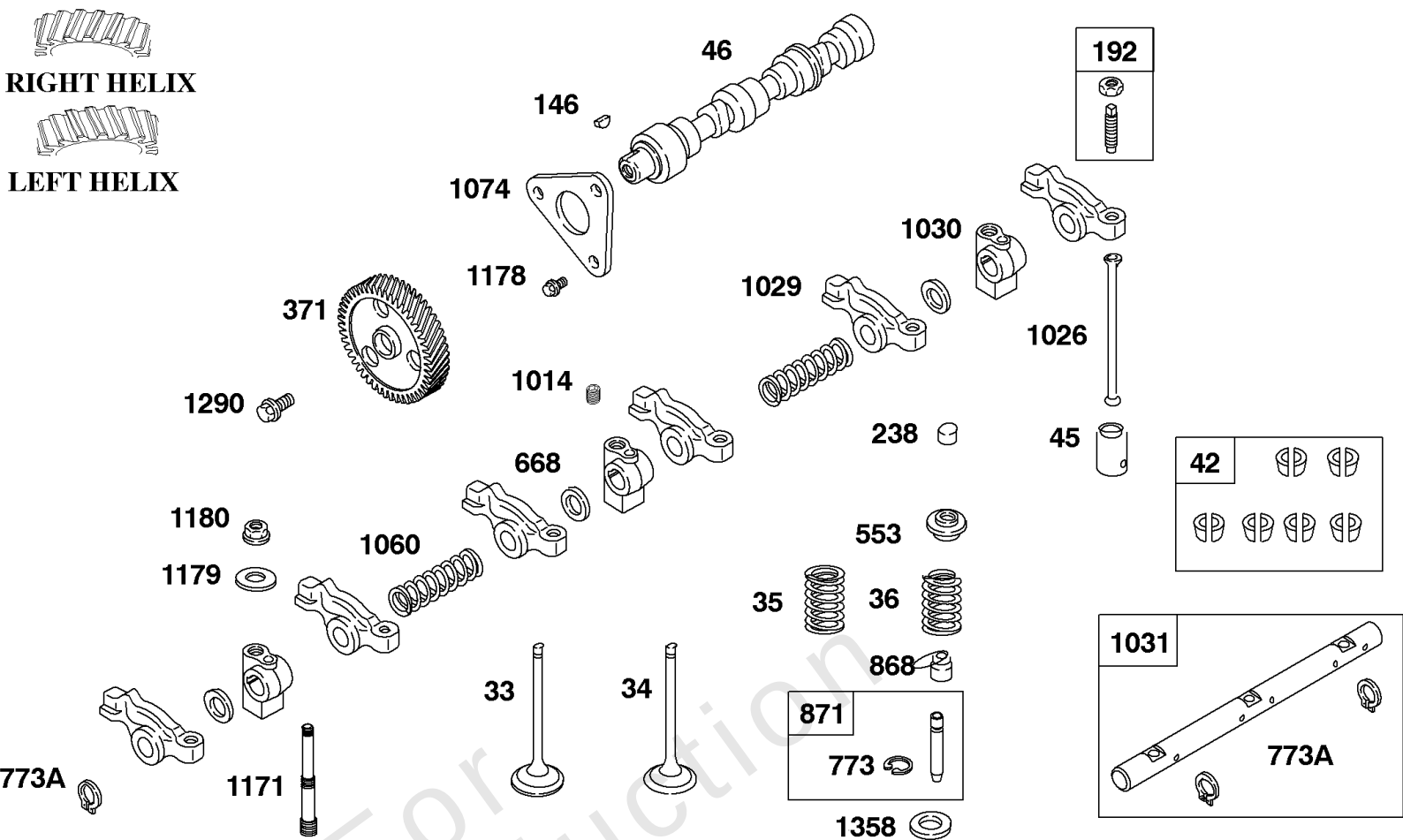
60 AMP



| REF. NO. | PART NO. | DESCRIPTION                | REF. NO. | PART NO. | DESCRIPTION               | REF. NO. | PART NO. | DESCRIPTION                  |
|----------|----------|----------------------------|----------|----------|---------------------------|----------|----------|------------------------------|
| 312A     | 820904   | Housing-Brush End          | 699A     | 825486   | Rotor Assembly            | 1204     | 820705   | Nut<br>(Alternator Pulley)   |
| 314A     | 820900   | Pulley-Alternator          | 1010     | 825384   | Retainer-Bearing          | 1205     | 820707   | Screw<br>(Brush End Housing) |
| 379      | 820703   | Cover-Brush                | 1090A    | 825387   | Retainer-Brush            | 1206     | 820709   | Nut<br>(Brush End Housing)   |
| 474A     | 825577   | Alternator                 | 1201     | 820715   | Screw<br>(Brush Cover)    | 1306     | 820781   | Nut<br>(Rectifier)           |
| 475A     | 825580   | Rectifier                  | 1202     | 820701   | Screw<br>(Brush Retainer) | 1307     | 820690   | Stud<br>(Drive End Housing)  |
| 501A     | 825481   | Regulator                  | 1202A    | 820702   | Screw<br>(Brush Retainer) |          |          |                              |
| 526      | 820702   | Screw<br>(Rectifier)       | 1203     | 820702   | Screw<br>(Stator Wire)    |          |          |                              |
| 530A     | 825484   | Housing-Drive End          |          |          |                           |          |          |                              |
| 668D     | 820713   | Spacer<br>(Rotor Assembly) |          |          |                           |          |          |                              |

## Alternator, 60 AMP

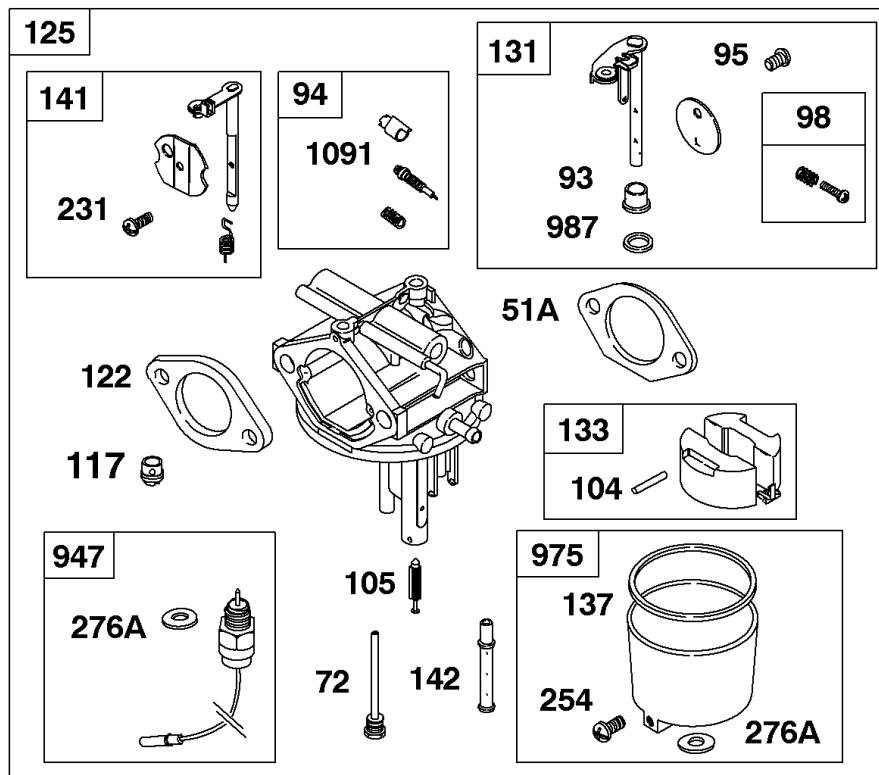
| REF NO | PART NO | QTY | DESCRIPTION                   |
|--------|---------|-----|-------------------------------|
| 312A   | 820904  |     | HOUSING, Brush End            |
| 314A   | 820900  |     | PULLEY, Alternator            |
| 379    | 820703  |     | COVER, Brush                  |
| 474A   | 825577  |     | ALTERNATOR<br>-(60 Amp)       |
| 475A   | 825580  |     | RECTIFIER                     |
| 501A   | 825481  |     | REGULATOR                     |
| 526    | 820702  |     | SCREW<br>-(Regulator)         |
| 530A   | 825484  |     | HOUSING, Drive End            |
| 668D   | 820713  |     | SPACER<br>-(Rotor Assembly)   |
| 699A   | 825486  |     | ROTOR ASSEMBLY                |
| 1010   | 825384  |     | RETAINER, Bearing             |
| 1090A  | 825387  |     | RETAINER, Brush               |
| 1201   | 820715  |     | SCREW<br>-(Brush Cover)       |
| 1202   | 820701  |     | SCREW<br>-(Brush Retainer)    |
| 1202A  | 820702  |     | SCREW<br>-(Brush Retainer)    |
| 1203   | 820702  |     | SCREW<br>-(Stator Wire)       |
| 1204   | 820705  |     | NUT<br>-(Alternator Pulley)   |
| 1205   | 820707  |     | SCREW<br>-(Brush End Housing) |
| 1206   | 820709  |     | NUT<br>-(Brush End Housing)   |
| 1306   | 820781  |     | NUT<br>-(Rectifier)           |
| 1307   | 820690  |     | STUD<br>-(Drive End Housing)  |



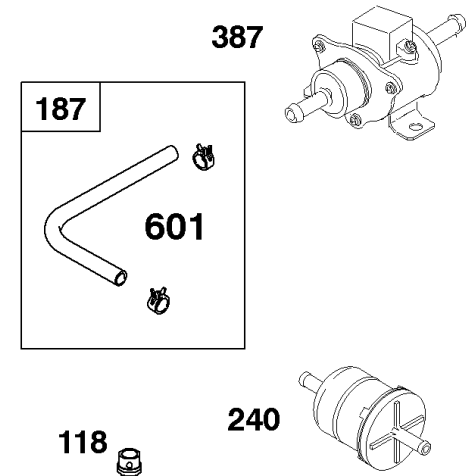
| REF. NO. | PART NO. | DESCRIPTION                                                         | REF. NO. | PART NO. | DESCRIPTION                         | REF. NO. | PART NO. | DESCRIPTION                                              |
|----------|----------|---------------------------------------------------------------------|----------|----------|-------------------------------------|----------|----------|----------------------------------------------------------|
| 33       | 820114   | Valve-Exhaust                                                       | 371      | 820613   | Gear-Cam (Right Helix)              | 1026     | 821218   | Rod-Push (Used After Code Date 04083100).                |
| 34       | 820115   | Valve-Intake                                                        |          |          | (Used After Code Date 98123100).    |          |          | ----- <b>Note</b> -----                                  |
| 35       | 820406   | Spring-Valve (Intake)                                               |          |          | ----- <b>Note</b> -----             |          |          | <b>820422</b> Rod-Push (Used Before Code Date 04090100). |
| 36       | 820406   | Spring-Valve (Exhaust)                                              |          |          | <b>820119</b> Gear-Cam (Left Helix) | 1029     | 820387   | Arm-Rocker                                               |
| 42       | 825082   | Keeper-Valve                                                        |          |          | (Used Before Code Date 99010100).   | 1030     | 820106   | Support-Rocker Arm                                       |
| 45       | 820110   | Tappet-Valve                                                        | 553      | 820111   | Retainer-Valve Spring               | 1031     | 825093   | Shaft-Rocker Arm                                         |
| 46       | 820388   | Camshaft                                                            | 668      | 820065   | Spacer (Rocker Arm Shaft)           | 1060     | 820044   | Spring-Rocker Shaft                                      |
| 146      | 691639   | Key-Timing                                                          | 773      | 820130   | Retainer (Valve Guide Bushing)      | 1074     | 820118   | Retainer-Camshaft                                        |
| 192      | 825688   | Adjuster-Rocker Arm (Used After Code Date 04083100).                | 773A     | 820003   | Retainer (Rocker Arm Shaft)         | 1171     | 820076   | Stud (Rocker Cover)                                      |
|          |          | ----- <b>Note</b> -----                                             |          |          |                                     | 1178     | 820032   | Screw (Camshaft Retainer)                                |
|          |          | <b>825041</b> Adjuster-Rocker Arm (Used Before Code Date 04090100). | 868      | 820041   | Seal-Valve                          | 1179     | 820177   | Washer (Rocker Arm Support)                              |
| 238      | 821214   | Cap-Valve (Used After Code Date 04083100).                          | 871      | 825030   | Bushing-Valve Guide                 | 1180     | 820070   | Nut (Rocker Arm Support)                                 |
|          |          | ----- <b>Note</b> -----                                             | 1014     | 820105   | Screw (Rocker Arm Support)          | 1290     | 820075   | Screw (Cam Gear)                                         |
|          |          | <b>820113</b> Cap-Valve (Used Before Code Date 04090100).           |          |          |                                     | 1358     | 820112   | Seat-Valve Spring                                        |

## Camshaft, Rocker Arm, Valves, Springs

| REF NO | PART NO | QTY | DESCRIPTION                                                   |
|--------|---------|-----|---------------------------------------------------------------|
| 33     | 820114  |     | VALVE, Exhaust                                                |
| 34     | 820115  |     | VALVE, Intake                                                 |
| 35     | 820406  |     | SPRING, Valve<br>-(Intake)                                    |
| 36     | 820406  |     | SPRING, Valve<br>-(Exhaust)                                   |
| 42     | 825082  |     | KEEPER, Valve                                                 |
| 45     | 820110  |     | TAPPET, Valve                                                 |
| 46     | 820388  |     | CAMSHAFT                                                      |
| 146    | 691639  |     | KEY, Woodruff                                                 |
| 192    | 825688  |     | ADJUSTER, Rocker Arm<br>-Used After Code Date 04083100        |
| 192    | 825041  |     | ADJUSTER, Rocker Arm<br>-Used Before Code Date 04090100       |
| 238    | 821214  |     | CAP, Valve<br>-Used After Code Date 04083100                  |
| 238    | 820113  |     | CAP, Valve<br>-Used Before Code Date 04090100                 |
| 371    | 820613  |     | GEAR, Cam<br>-(Right Helix)<br>-Used After Code Date 98123100 |
| 371    | 820119  |     | GEAR, Cam<br>-(Left Helix)<br>-Used Before Code Date 99010100 |
| 553    | 820111  |     | RETAINER, Valve                                               |
| 668    | 820675  |     | SPACER                                                        |
| 773    | 820130  |     | RETAINER<br>-(Valve Guide Bushing)                            |
| 773A   | 820003  |     | RETAINER<br>-(Rocker Arm Shaft) (Includes 3)                  |
| 868    | 820041  |     | SEAL, Valve                                                   |
| 871    | 825030  |     | BUSHING, Valve Guide                                          |
| 1014   | 820105  |     | SCREW<br>-(Rocker Arm Support)                                |
| 1026   | 820422  |     | ROD, Push<br>-Used Before Code Date 04090100                  |
| 1026   | 821218  |     | ROD, Push<br>-Used After Code Date 04083100                   |
| 1029   | 820387  |     | ARM, Rocker                                                   |
| 1030   | 820106  |     | SUPPORT, Rocker Arm                                           |
| 1031   | 825093  |     | SHAFT, Rocker Arm                                             |
| 1060   | 820044  |     | SPRING, Rocker Shaft                                          |
| 1074   | 820118  |     | RETAINER, Camshaft                                            |
| 1171   | 820076  |     | STUD<br>-(Rocker Cover)                                       |
| 1178   | 820032  |     | SCREW<br>-(Camshaft Retainer)                                 |
| 1179   | 820177  |     | WASHER<br>-(Rocker Arm Support)                               |
| 1180   | 820070  |     | NUT<br>-(Rocker Arm Support)                                  |
| 1290   | 820075  |     | SCREW<br>-(Cam Gear)                                          |
| 1358   | 820112  |     | SEAT, Valve Spring                                            |



## AISAN MANUAL CHOKE



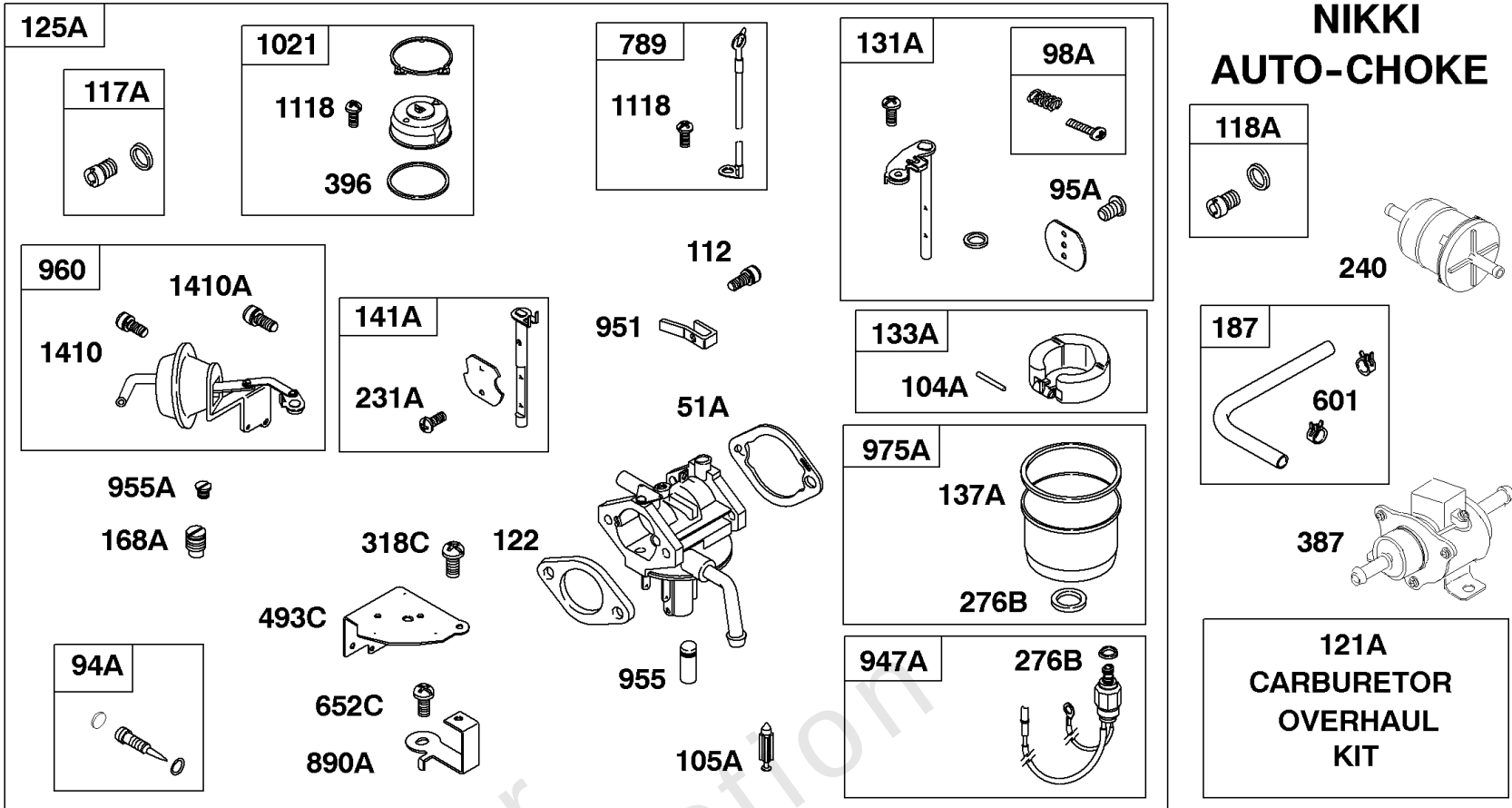
### 121 CARBURETOR OVERHAUL KIT

| REF. NO. | PART NO. | DESCRIPTION                                                                                                                          | REF. NO. | PART NO. | DESCRIPTION                                                                              | REF. NO. | PART NO. | DESCRIPTION                                                                                      |
|----------|----------|--------------------------------------------------------------------------------------------------------------------------------------|----------|----------|------------------------------------------------------------------------------------------|----------|----------|--------------------------------------------------------------------------------------------------|
| 51A      | 820385   | Gasket-Intake                                                                                                                        | 118      | 821056   | Jet-Main<br>(High Altitude)<br>(2,400 to 6,600 Feet)<br>(Used After Code Date 02033100). | 125      | 825569   | Carburetor<br>(Used After Code Date 01073100).                                                   |
| 72       | 820626   | Tube-Jet                                                                                                                             |          |          |                                                                                          |          |          | ----- <b>Note</b> -----                                                                          |
| 93       |          | Bushing-Throttle Shaft<br>(Sold In Kit Only)                                                                                         |          |          |                                                                                          |          |          | <b>825207</b> Carburetor<br>(Used Before Code Date 01080100).                                    |
| 94       | 825241   | Kit-Idle Mixture                                                                                                                     |          |          |                                                                                          |          |          | Used on Type No(s). 0110, 0112, 0113, 0115, 0210, 0215.                                          |
| 95       | 820485   | Screw<br>(Throttle Valve)                                                                                                            |          |          |                                                                                          |          |          | <b>825320</b> Carburetor<br>Used on Type No(s). 0105, 0205.<br>(Used Before Code Date 01080100). |
| 98       | 825242   | Kit-Idle Speed                                                                                                                       |          |          |                                                                                          |          |          |                                                                                                  |
| 104      | 690739   | Pin-Float Hinge                                                                                                                      |          |          |                                                                                          | 131      | 825570   | Kit-Throttle Shaft                                                                               |
| 105      | 820486   | Valve-Needle Valve                                                                                                                   |          |          |                                                                                          | 133      | 825240   | Float-Carburetor                                                                                 |
| 117      | 821049   | Jet-Main<br>(Standard)<br>(Used After Code Date 01073100).                                                                           |          |          |                                                                                          | 137      | 820489   | Gasket-Float Bowl                                                                                |
|          |          | ----- <b>Note</b> -----                                                                                                              |          |          |                                                                                          | 141      | 825298   | Kit-Choke Shaft                                                                                  |
|          |          | <b>820457</b> Jet-Main<br>(Standard)<br>(Used Before Code Date 01080100).<br>Used on Type No(s). 0105, 0205, 0218, 0220, 0221, 0225. |          |          |                                                                                          | 142      | 821051   | Nozzle-Carburetor                                                                                |
|          |          |                                                                                                                                      |          |          |                                                                                          | 187      | 825044   | Line-Fuel                                                                                        |
|          |          |                                                                                                                                      |          |          |                                                                                          | 231      | 820485   | Screw<br>(Choke Valve)                                                                           |
|          |          |                                                                                                                                      | 121      | 825575   | Kit-Carburetor<br>Overhaul                                                               | 240      | 821026   | Filter-Fuel                                                                                      |
|          |          |                                                                                                                                      | 122      | 820082   | Spacer-Carburetor                                                                        | 254      | 820491   | Drain-Carburetor Bowl                                                                            |
|          |          |                                                                                                                                      |          |          |                                                                                          | 276A     | 692343   | Washer-Sealing                                                                                   |
|          |          |                                                                                                                                      |          |          |                                                                                          | 387      | 825232   | Pump-Fuel                                                                                        |
|          |          |                                                                                                                                      |          |          |                                                                                          | 601      | 820006   | Clamp-Hose                                                                                       |
|          |          |                                                                                                                                      |          |          |                                                                                          | 947      | 825377   | Solenoid-Fuel                                                                                    |
|          |          |                                                                                                                                      |          |          |                                                                                          | 975      | 825239   | Bowl-Float                                                                                       |
|          |          |                                                                                                                                      |          |          |                                                                                          | 987      | 690734   | Seal-Throttle Shaft                                                                              |
|          |          |                                                                                                                                      |          |          |                                                                                          | 1091     | 691515   | Cap-Limiter                                                                                      |

## Carburetor, Aisan Manual Choke

| REF NO | PART NO | QTY | DESCRIPTION                                                                          |
|--------|---------|-----|--------------------------------------------------------------------------------------|
| 51A    | 820385  |     | GASKET, Intake                                                                       |
| 72     | 820626  |     | TUBE, Jet                                                                            |
| 93     | -----   |     | Bushing-Throttle Shaft<br>-(Sold In Kit Only)                                        |
| 94     | 825241  |     | KIT, Idle Mixture                                                                    |
| 95     | 820485  |     | SCREW<br>-(Throttle Valve)                                                           |
| 98     | 825242  |     | KIT, Idle Speed                                                                      |
| 104    | 690739  |     | PIN, Float Hinge                                                                     |
| 105    | 820486  |     | VALVE, Float Needle                                                                  |
| 117    | 820457  |     | JET, Main<br>-(Standard)<br>-Used Before Code Date 01080100                          |
| 118    | 820458  |     | JET, Main<br>-(High Altitude) (2,400-6,600 Feet)<br>-Used Before Code Date 02040100  |
| 118    | 820540  |     | JET, Main<br>-(High Altitude) (6,000-10,000 Feet)<br>-Used Before Code Date 02040100 |
| 118    | 821056  |     | JET, Main<br>-(High Altitude) (2,400-6,600 Feet)<br>-Used After Code Date 02033100   |
| 118    | 820457  |     | JET, Main<br>-(High Altitude) (6,000-10,000 Feet)<br>-Used After Code Date 02033100  |
| 121    | 825575  |     | KIT, Carburetor Overhaul                                                             |
| 122    | 820082  |     | SPACER, Carburetor                                                                   |
| 125    | 825320  |     | CARBURETOR<br>-Used Before Code Date 01080100                                        |
| 131    | 825570  |     | KIT, Throttle Shaft                                                                  |
| 133    | 825240  |     | FLOAT, Carburetor                                                                    |
| 137    | 820489  |     | GASKET, Float Bowl                                                                   |
| 141    | 825298  |     | KIT, Choke Shaft                                                                     |
| 142    | 821051  |     | NOZZLE, Carburetor<br>-(Standard)                                                    |
| 187    | 825044  |     | LINE, Fuel                                                                           |
| 231    | 820485  |     | SCREW<br>-(Choke Valve)                                                              |
| 240    | 821026  |     | FILTER-FUEL                                                                          |
| 254    | 820491  |     | DRAIN, Carburetor Bowl                                                               |
| 276A   | 692343  |     | WASHER, Sealing                                                                      |
| 387    | 825232  |     | PUMP, Fuel                                                                           |
| 947    | 825377  |     | SOLENOID, Fuel                                                                       |
| 975    | 825239  |     | BOWL, Float                                                                          |
| 987    | 690734  |     | SEAL, Choke/Throttle Shaft                                                           |
| 1091   | 691515  |     | CAP, Limiter                                                                         |

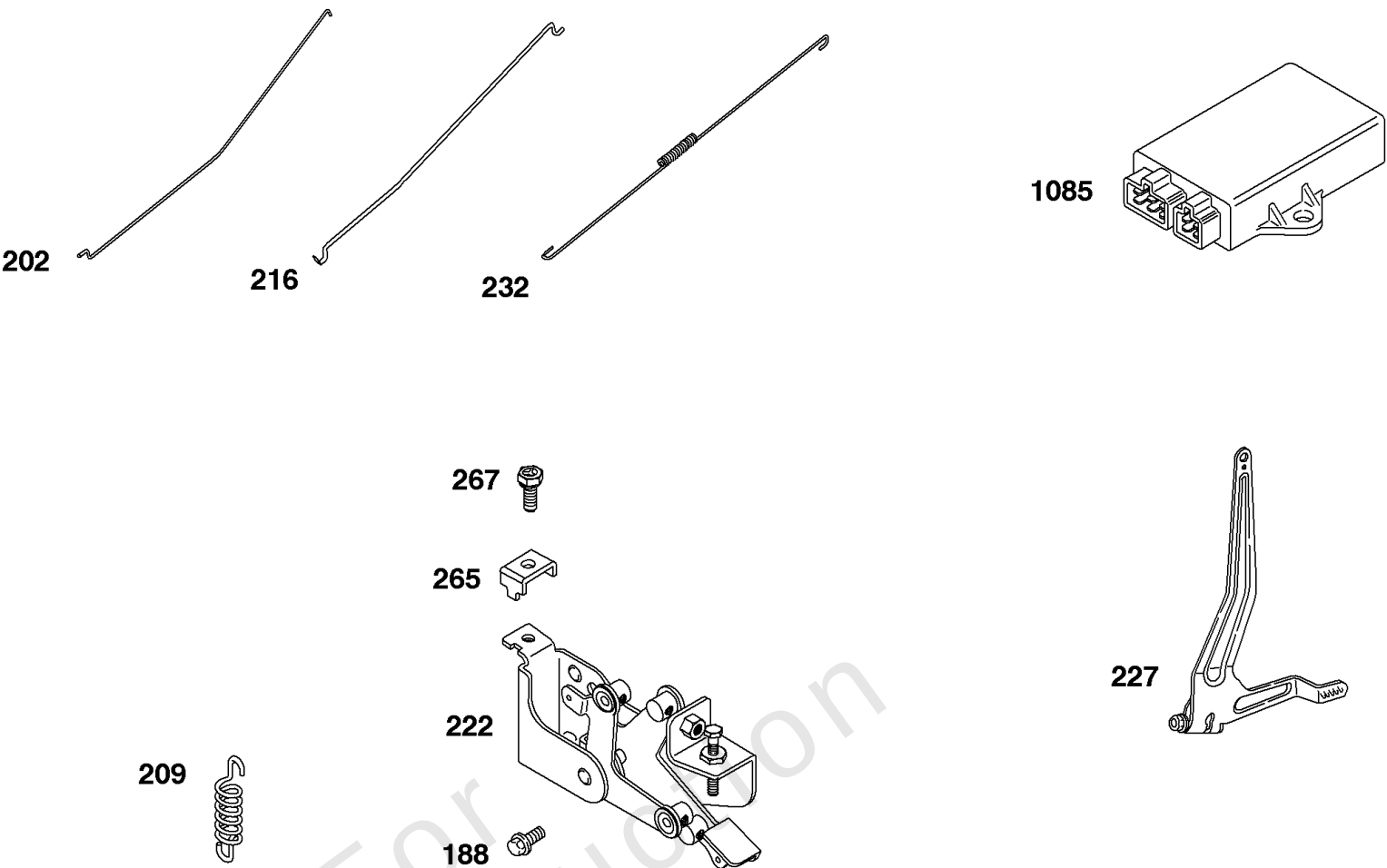
NIKKI  
AUTO-CHOKE



| REF. NO. | PART NO. | DESCRIPTION             | REF. NO. | PART NO. | DESCRIPTION                   | REF. NO. | PART NO. | DESCRIPTION        |
|----------|----------|-------------------------|----------|----------|-------------------------------|----------|----------|--------------------|
| 51A      | 820385   | Gasket-Intake           | 122      | 820082   | Spacer-Carburetor             | 601      | 820006   | Clamp-Hose         |
| 94A      | 825374   | Kit-Idle Mixture        | 125A     | 825490   | Carburetor                    | 652C     | 820514   | Screw              |
| 95A      | 820504   | Screw                   |          |          | Used on Type No(s). 0311.     |          |          | (Support Bracket)  |
| 98A      | 825616   | Kit-Idle Speed          | 131A     | 825559   | Kit-Throttle Shaft            | 789      | 825257   | Harness-Wiring     |
| 104A     | 693506   | Pin-Float Hinge         | 133A     | 825248   | Float-Carburetor              | 890A     | 820517   | Bracket-Support    |
| 105A     | 820506   | Valve-Float Needle      | 137A     | 820508   | Gasket-Float Bowl             | 947A     | 825677   | Solenoid-Fuel      |
| 112      | 690718   | Screw                   | 141A     | 825562   | Kit-Choke Shaft               | 951      | 820509   | Lever-Choke        |
|          |          | (Choke Lever)           | 168A     | 820603   | Jet-Idle Circuit              | 955      | 820510   | Plug-Carburetor    |
| 117A     | 825563   | Jet-Main                | 187      | 825044   | Line-Fuel                     |          |          | (Slow Passage)     |
|          |          | (Standard)              | 231A     | 820504   | Screw                         | 955A     | 820520   | Plug-Carburetor    |
| 118A     | 825586   | Jet-Main                |          |          | (Choke Valve)                 |          |          | (Jet)              |
|          |          | (High Altitude)         | 240      | 821026   | Filter-Fuel                   | 960      | 825253   | Choke-Vacuum Break |
|          |          | (2,400 to 6,600 Feet)   | 276B     | 820511   | Washer-Sealing                | 975A     | 825247   | Bowl-Float         |
|          |          | ----- Note -----        | 318C     | 820512   | Screw                         | 1021     | 825252   | Activator-Choke    |
|          |          | 825587 Jet-Main         |          |          | (Mounting Bracket)            | 1118     | 690718   | Screw              |
|          |          | (High Altitude)         | 387      | 825232   | Pump-Fuel                     |          |          | (Choke Activator)  |
|          |          | (6,000 to 10,000 Feet)  | 396      | 820515   | Gasket-Choke Cover            | 1410     | 820512   | Screw              |
| 121A     | 825293   | Kit-Carburetor Overhaul | 493C     | 820516   | Bracket-Mounting (Carburetor) |          |          | (Mounting Bracket) |
|          |          |                         |          |          |                               | 1410A    | 820513   | Screw              |
|          |          |                         |          |          |                               |          |          | (Mounting Bracket) |

## Carburetor, Nikki Auto Choke

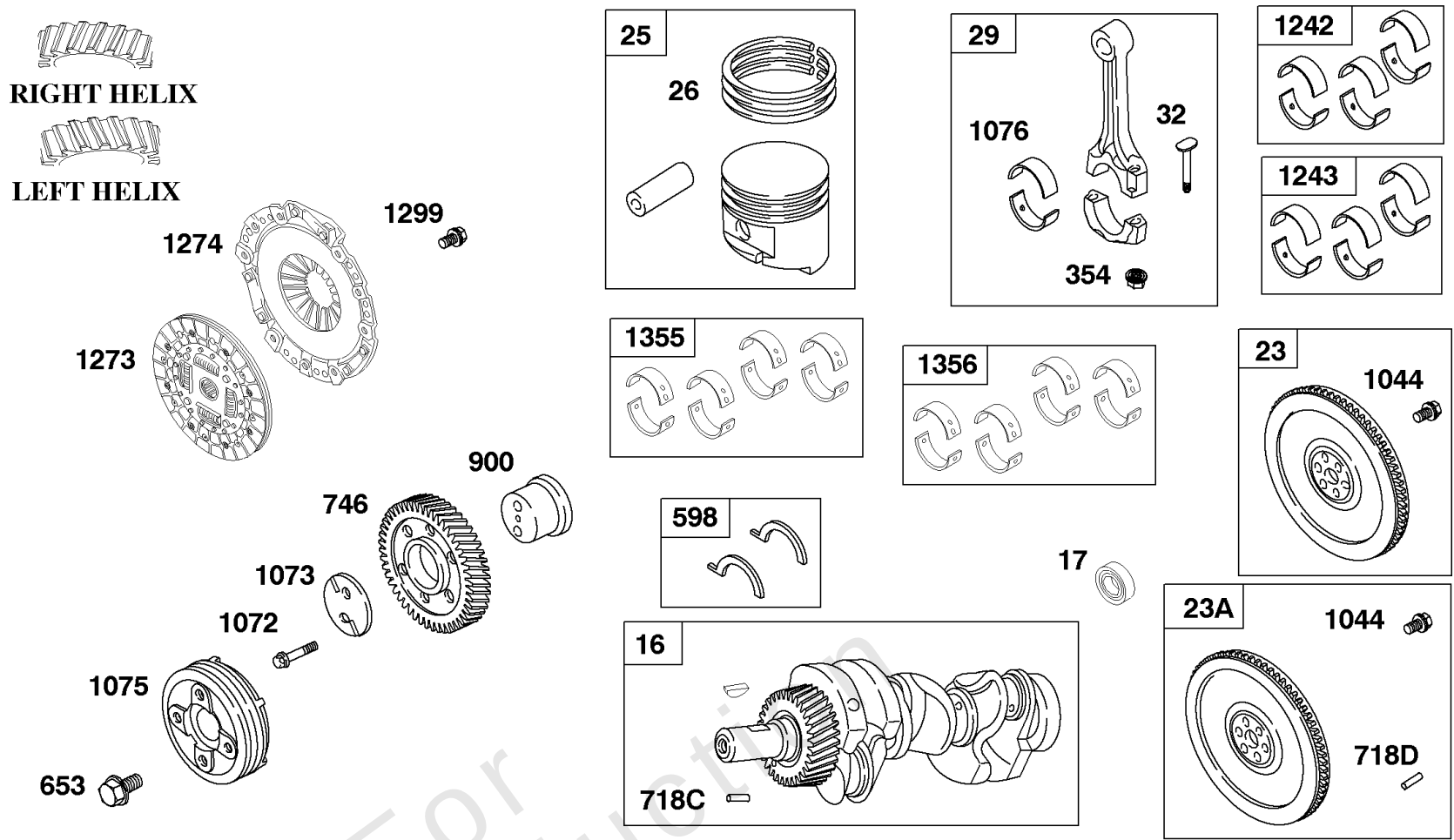
| REF NO | PART NO | QTY | DESCRIPTION                                       |
|--------|---------|-----|---------------------------------------------------|
| 51A    | 820385  |     | GASKET, Intake                                    |
| 94A    | 825374  |     | KIT, Idle Mixture                                 |
| 95A    | 820504  |     | SCREW<br>-(Throttle Valve)                        |
| 98A    | 825616  |     | KIT, Idle Speed                                   |
| 104A   | 693506  |     | PIN-FLOAT HINGE                                   |
| 105A   | 820506  |     | VALVE, Float Needle                               |
| 112    | 690718  |     | SCREW<br>-(Choke Lever)                           |
| 118A   | 825587  |     | JET, Main<br>-(High Altitude) (6,000-10,000 Feet) |
| 118A   | 825586  |     | JET, Main<br>-(High Altitude) (2,400-6,600 Feet)  |
| 121A   | 825293  |     | KIT, Carburetor Overhaul                          |
| 122    | 820082  |     | SPACER, Carburetor                                |
| 131A   | 825559  |     | KIT, Throttle Shaft                               |
| 133A   | 825248  |     | FLOAT, Carburetor                                 |
| 137A   | 820508  |     | GASKET, Float Bowl                                |
| 141A   | 825562  |     | KIT, Choke Shaft                                  |
| 168A   | 820603  |     | JET, Idle Circuit                                 |
| 187    | 825044  |     | LINE, Fuel                                        |
| 231A   | 820504  |     | SCREW<br>-(Choke Valve)                           |
| 240    | 821026  |     | FILTER-FUEL                                       |
| 276B   | 820511  |     | WASHER, Sealing                                   |
| 318C   | 820512  |     | SCREW<br>-(Mounting Bracket)                      |
| 387    | 825232  |     | PUMP, Fuel                                        |
| 396    | 820515  |     | GASKET, Choke Cover                               |
| 493C   | 820516  |     | BRACKET, Mounting<br>-(Carburetor)                |
| 652C   | 820514  |     | SCREW<br>-(Support Bracket)                       |
| 789    | 825257  |     | HARNESS, Wiring                                   |
| 890A   | 820517  |     | BRACKET, Support                                  |
| 947A   | 825677  |     | SOLENOID, Fuel                                    |
| 951    | 820509  |     | LEVER, Choke                                      |
| 955    | 820510  |     | PLUG, Carburetor                                  |
| 955A   | 820520  |     | PLUG, Carburetor                                  |
| 960    | 825253  |     | BREAK, Vacuum Choke                               |
| 975A   | 825247  |     | BOWL, Float                                       |
| 1021   | 825252  |     | ACTIVATOR, Choke                                  |
| 1118   | 690718  |     | SCREW<br>-(Choke Activator)                       |
| 1410   | 820512  |     | SCREW<br>-(Vacuum Break Choke)                    |
| 1410A  | 820513  |     | SCREW<br>-(Vacuum Break Choke)                    |



| REF. NO. | PART NO. | DESCRIPTION                | REF. NO. | PART NO. | DESCRIPTION                                                                                                                                                                                                                                                               | REF. NO. | PART NO. | DESCRIPTION                                   |
|----------|----------|----------------------------|----------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|-----------------------------------------------|
| 188      | 820878   | Screw<br>(Control Bracket) | 209      | 821054   | Spring-Governor<br>(Yellow, 32 Coil)<br>(Used After Code Date 99013100).<br>----- Note -----<br>820175 Spring-Governor<br>(Yellow, 19 Coil)<br>(Used Before Code Date 99020100).<br>820315 Spring-Governor<br>(Blue)<br>Used on Type No(s). 0112, 0113, 0115, 0215, 0313. | 216      | 820173   | Link-Choke                                    |
| 202      | 820171   | Link-Mechanical Governor   |          |          |                                                                                                                                                                                                                                                                           | 222      | 825062   | Bracket-Control                               |
|          |          |                            |          |          |                                                                                                                                                                                                                                                                           | 227      | 825061   | Lever-Governor Control<br>(Hardware Included) |
|          |          |                            |          |          |                                                                                                                                                                                                                                                                           | 232      | 820172   | Spring-Governor Link                          |
|          |          |                            |          |          |                                                                                                                                                                                                                                                                           | 265      | 691024   | Clamp-Casing                                  |
|          |          |                            |          |          |                                                                                                                                                                                                                                                                           | 267      | 692083   | Screw<br>(Casing Clamp)                       |
|          |          |                            |          |          |                                                                                                                                                                                                                                                                           | 1085     | 825572   | Module-Ignition                               |

## Controls, Springs, Ignition Module

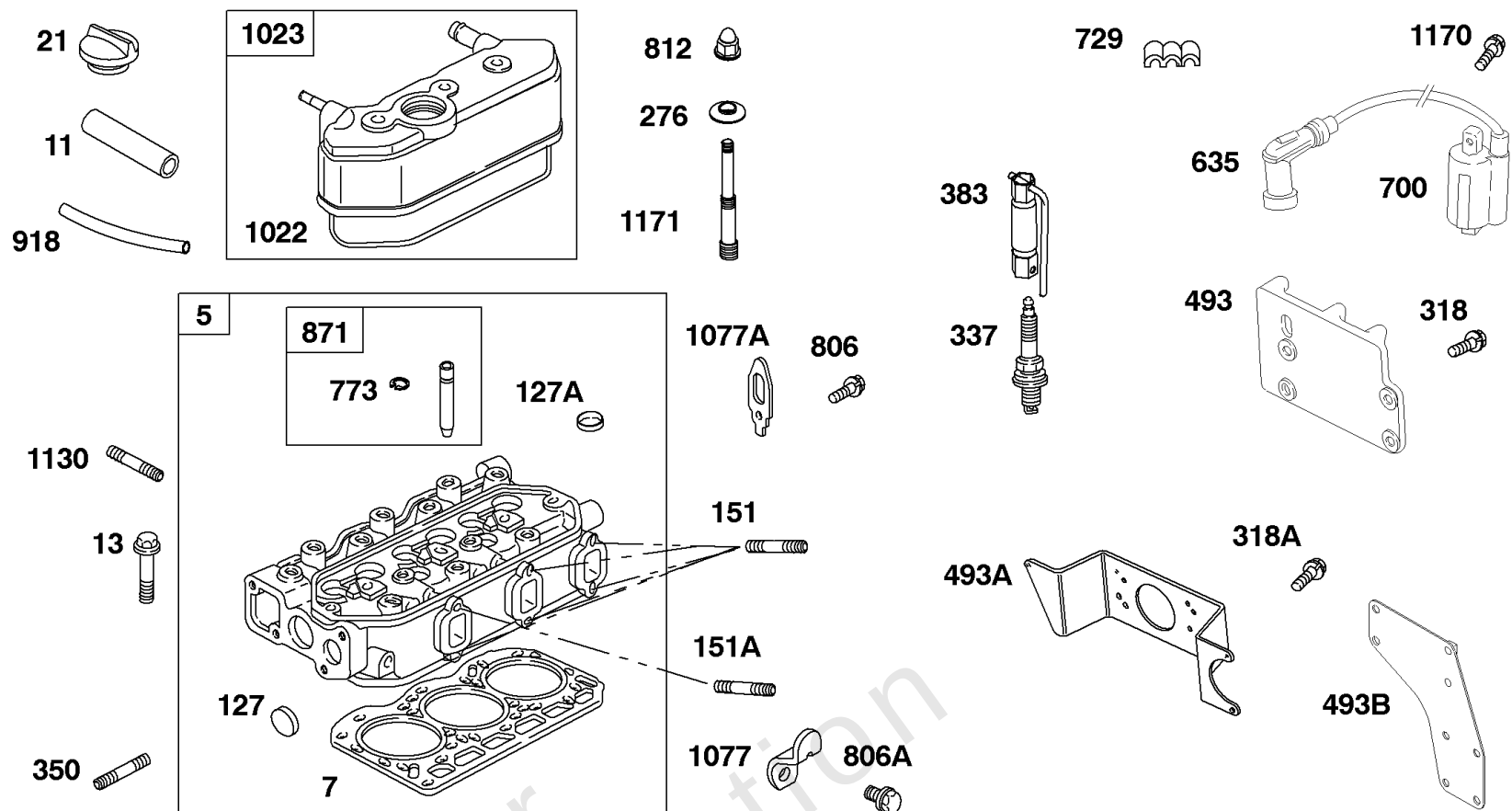
| REF NO | PART NO | QTY | DESCRIPTION                                                               |
|--------|---------|-----|---------------------------------------------------------------------------|
| 188    | 820878  |     | SCREW<br>-(Control Bracket)                                               |
| 202    | 820171  |     | LINK, Mechanical Governor                                                 |
| 209    | 821054  |     | SPRING, Governor<br>-(Yellow, 32 Coil)<br>-Used After Code Date 99013100  |
| 209    | 820175  |     | SPRING, Governor<br>-(Yellow, 19 Coil)<br>-Used Before Code Date 99020100 |
| 216    | 820173  |     | LINK, Choke                                                               |
| 222    | 825062  |     | BRACKET, Control                                                          |
| 227    | 825061  |     | LEVER, Governor Control                                                   |
| 232    | 820172  |     | SPRING/LINK, Governor                                                     |
| 265    | 691024  |     | CLAMP, Casing                                                             |
| 267    | 692083  |     | SCREW<br>-(Casing Clamp)                                                  |
| 1085   | 825572  |     | MODULE, Ignition                                                          |



| REF. NO. | PART NO. | DESCRIPTION                                                                                                                                                          | REF. NO. | PART NO. | DESCRIPTION                                                                                                                                                          | REF. NO. | PART NO. | DESCRIPTION                                             |
|----------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|---------------------------------------------------------|
| 16       | 825552   | Crankshaft<br>(Right Helix)<br>(Used After Code Date 98123100).<br>----- <b>Note</b> -----<br>825193 Crankshaft<br>(Left Helix)<br>(Used Before Code Date 99010100). | 29       | 825033   | Rod-Connecting                                                                                                                                                       | 900      | 820116   | Shaft-Gear                                              |
|          |          |                                                                                                                                                                      | 32       | 820128   | Screw<br>(Connecting Rod)                                                                                                                                            | 1044     | 820080   | Screw<br>(Flywheel)                                     |
|          |          |                                                                                                                                                                      | 354      | 820073   | Nut<br>(Connecting Rod)                                                                                                                                              | 1072     | 820081   | Screw<br>(Idle Gear Plate)                              |
|          |          |                                                                                                                                                                      | 598      | 821295   | Shim-Endplay<br>(Crankshaft)<br>(Standard)<br>----- <b>Note</b> -----<br>821297 Shim-<br>Endplay<br>(Crankshaft)<br>(.010" Oversize)                                 | 1073     | 820117   | Plate-Idle Gear                                         |
| 17       | 820919   | Bearing-Ball<br>(Flywheel)<br>Used on Type No(s). 0311.                                                                                                              |          |          |                                                                                                                                                                      | 1075     | 820236   | Pulley-Crankshaft                                       |
| 23       | 825303   | Flywheel                                                                                                                                                             | 653      | 820079   | Screw<br>(Crankshaft Pulley)                                                                                                                                         | 1076     | 820142   | Bearing/STD-Rod                                         |
| 23A      | 825488   | Flywheel<br>Used on Type No(s). 0311.                                                                                                                                | 718C     | 820059   | Pin-Locating<br>Used on Type No(s). 0311.                                                                                                                            | 1242     | 825019   | Bearing Set/STD-Rod                                     |
|          |          |                                                                                                                                                                      | 718D     | 821033   | Pin-Locating<br>Used on Type No(s). 0311.                                                                                                                            | 1243     | 825060   | Bearing Set/010"-Rod                                    |
| 25       | 825203   | Piston Assembly<br>(Standard)<br>----- <b>Note</b> -----<br>825204 Piston<br>Assembly<br>(.010" Oversize)                                                            | 746      | 820611   | Gear-Idler<br>(Left Helix)<br>(Used After Code Date 98123100).<br>----- <b>Note</b> -----<br>825013 Gear-Idler<br>(Right Helix)<br>(Used Before Code Date 99010100). | 1273     | 820923   | Disc-Clutch<br>Type No(s) 0311.                         |
| 26       | 825036   | Ring Set<br>----- <b>Note</b> -----<br>825034 Ring Set<br>(.010" Oversize)                                                                                           |          |          |                                                                                                                                                                      | 1274     | 825492   | Clutch-Pressure Plate<br>Type No(s) 0311.               |
|          |          |                                                                                                                                                                      |          |          |                                                                                                                                                                      | 1299     | 820212   | Screw<br>(Pressure Plate<br>Clutch)<br>Type No(s) 0311. |
|          |          |                                                                                                                                                                      |          |          |                                                                                                                                                                      | 1355     | 825040   | Bearing Set/STD-Main                                    |
|          |          |                                                                                                                                                                      |          |          |                                                                                                                                                                      | 1356     | 825039   | Bearing Set/010"-Main                                   |

## Crankshaft, Piston, Flywheel, Clutch

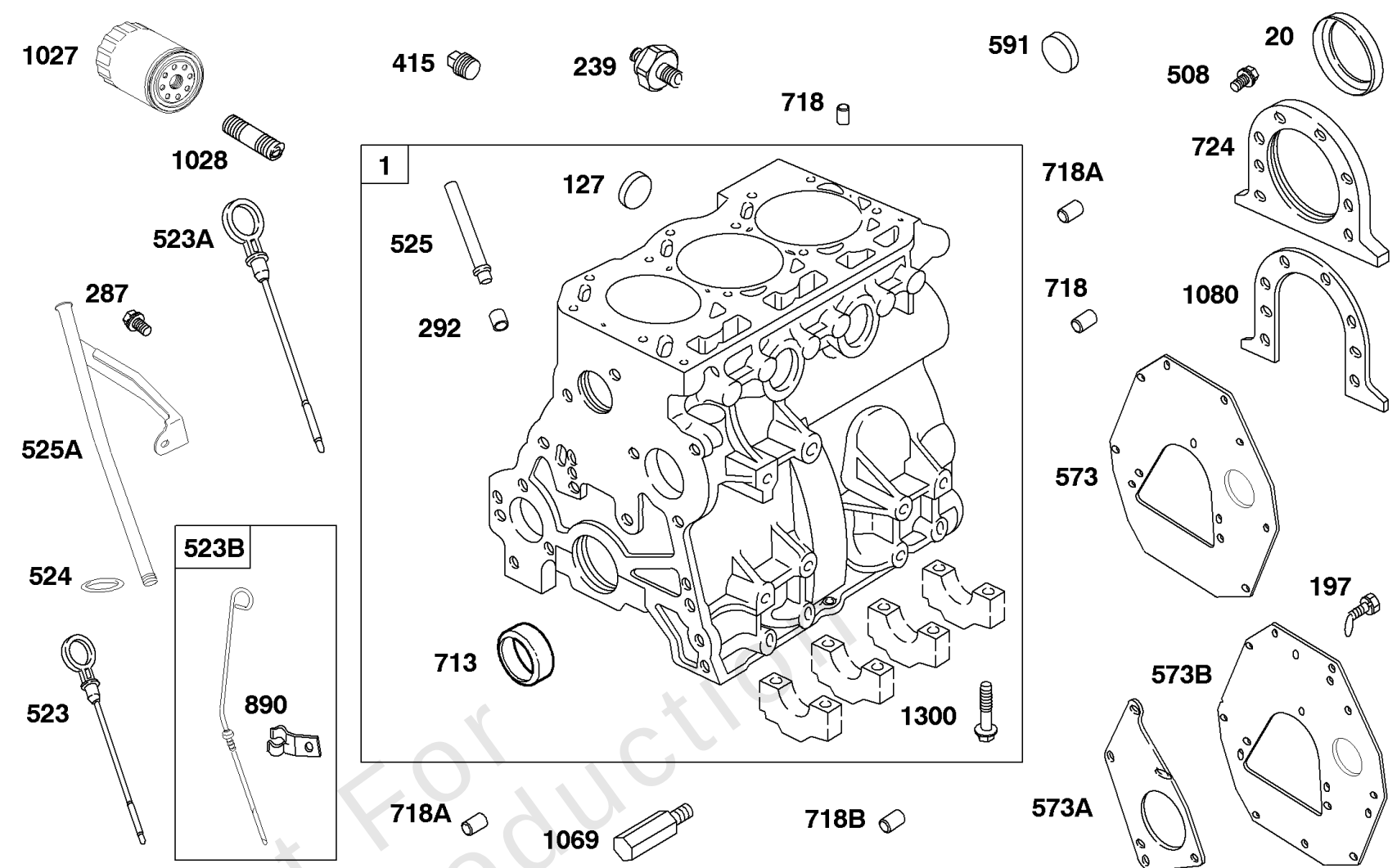
| REF NO | PART NO | QTY | DESCRIPTION                                                         |
|--------|---------|-----|---------------------------------------------------------------------|
| 16     | 825193  |     | CRANKSHAFT<br>-(Left Helix)<br>-Used Before Code Date 99010100      |
| 16     | 825552  |     | CRANKSHAFT<br>-(Right Helix)<br>-Used After Code Date 98123100      |
| 23     | 825303  |     | FLYWHEEL                                                            |
| 25     | 825204  |     | PISTON ASSEMBLY<br>-(.010 Oversize)                                 |
| 25     | 825203  |     | PISTON ASSEMBLY<br>-(Standard)                                      |
| 26     | 825036  |     | SET, Ring<br>-(Standard)                                            |
| 26     | 825034  |     | SET, Ring<br>-(.010 Oversize)                                       |
| 29     | 825033  |     | ROD, Connecting                                                     |
| 32     | 820128  |     | SCREW<br>-(Connecting Rod)                                          |
| 354    | 820073  |     | NUT<br>-(Connecting Rod)                                            |
| 598    | 821295  |     | SHIM, End Play<br>-(Crankshaft or Camshaft Bearing) (Standard)      |
| 598    | 821297  |     | SHIM, End Play<br>-(Crankshaft or Camshaft Bearing) (.010 Oversize) |
| 653    | 820079  |     | SCREW<br>-(Crankshaft Pulley)                                       |
| 718C   | 820059  |     | PIN, Locating                                                       |
| 746    | 820611  |     | GEAR, Idler<br>-(Left Helix)<br>-Used After Code Date 98123100      |
| 746    | 825013  |     | GEAR, Idler<br>-(Right Helix)<br>-Used Before Code Date 99010100    |
| 900    | 820116  |     | SHAFT, Gear                                                         |
| 1044   | 820080  |     | SCREW<br>-(Flywheel)                                                |
| 1072   | 820081  |     | SCREW<br>-(Idle Gear Plate)                                         |
| 1073   | 820117  |     | PLATE, Idle Gear                                                    |
| 1075   | 820236  |     | PULLEY, Crankshaft                                                  |
| 1076   | 820142  |     | SET, Rod Bearing, Standard                                          |
| 1242   | 825019  |     | SET, Rod Bearing, Standard                                          |
| 1243   | 825060  |     | SET, Rod Bearing, 010                                               |
| 1355   | 825040  |     | SET, Main Bearing, Standard                                         |
| 1356   | 825039  |     | SET, Main Bearing, 010                                              |



| REF. NO. | PART NO. | DESCRIPTION                                                           | REF. NO.         | PART NO. | DESCRIPTION                                                                             | REF. NO. | PART NO. | DESCRIPTION                                                                                                                       |
|----------|----------|-----------------------------------------------------------------------|------------------|----------|-----------------------------------------------------------------------------------------|----------|----------|-----------------------------------------------------------------------------------------------------------------------------------|
| 5        | 825693   | Head-Cylinder                                                         | 276              | 820064   | Washer-Sealing (Rocker Cover)                                                           | 700      | 820037   | Coil-Ignition                                                                                                                     |
| 7        | 820648   | Gasket-Cylinder Head                                                  | 318              | 820024   | Screw (Mounting Bracket)                                                                | 729      | 820672   | Clip-Wire                                                                                                                         |
| 11       | 820048   | Tube-Breather                                                         | ----- Note ----- |          |                                                                                         | 773      | 820130   | Retainer (Valve Guide Bushing)                                                                                                    |
|          |          | ----- Note -----                                                      |                  |          |                                                                                         |          |          |                                                                                                                                   |
|          |          | 820886 Tube-Breather                                                  |                  |          | 820023 Screw (Mounting Bracket)                                                         | 806      | 820212   | Screw (Lifting Bracket)                                                                                                           |
|          |          | Used on Type No(s). 0311.                                             |                  |          | Used on Type No(s). 0112, 0113, 0116, 0220, 0313, 0318, 0320.                           | 806A     | 820024   | Screw (Lifting Bracket)                                                                                                           |
| 13       | 820623   | Screw (Cylinder Head) (9 mm) (Used After Code Date 98123100).         | 318A             | 820273   | Screw (Mounting Bracket) (Used on Type No(s). 0112, 0113, 0116, 0220, 0313, 0318, 0320. | 812      | 820071   | Nut (Rocker Cover)                                                                                                                |
|          |          | ----- Note -----                                                      |                  |          |                                                                                         | 871      | 825030   | Bushing-Valve Guide                                                                                                               |
|          |          | 820074 Screw (Cylinder Head) (8 mm) (Used Before Code Date 99010100). | 337              | 491055S  | Plug-Spark                                                                              | 918      | 820393   | Hose-Vacuum                                                                                                                       |
| 21       | 825024   | Cap-Oil Fill                                                          | 350              | 820078   | Stud (Water Pump)                                                                       | 1022     | 820150   | Gasket-Rocker Cover                                                                                                               |
| 127      | 820004   | Plug-Welch                                                            | 383              | 19374S   | Wrench-Spark Plug                                                                       | 1023     | 825277   | Cover-Rocker (Order Reference 1019, Label Kit, Reference 1036, Emissions Label, for your Model, Type, Trim with Engine Date Code) |
| 127A     | 820005   | Plug-Welch                                                            | 493              | 820083   | Bracket-Mounting (Ignition Coil)                                                        | 1077     | 820260   | Bracket-Lifting                                                                                                                   |
| 151      | 820014   | Stud (Exhaust Manifold)                                               | 493A             | 820480   | Bracket-Mounting                                                                        | 1077A    | 820254   | Bracket-Lifting                                                                                                                   |
| 151A     | 820466   | Stud (Exhaust Manifold)                                               | 493B             | 820251   | Bracket-Mounting                                                                        | 1130     | 820015   | Stud (Intake Manifold)                                                                                                            |
|          |          |                                                                       | 635              | 820084   | Boot-Spark Plug                                                                         | 1170     | 820012   | Screw (Ignition Coil)                                                                                                             |
|          |          |                                                                       |                  |          |                                                                                         | 1171     | 820076   | Stud (Rocker Cover)                                                                                                               |

## Cylinder Head, Rocker Cover, Ignition

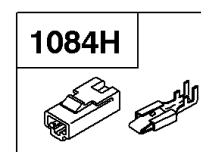
| REF NO | PART NO  | QTY | DESCRIPTION                                                                                                                                |
|--------|----------|-----|--------------------------------------------------------------------------------------------------------------------------------------------|
| 5      | 825693   |     | HEAD, Cylinder                                                                                                                             |
| 7      | 820648   |     | GASKET, Cylinder Head                                                                                                                      |
| 11     | 820048   |     | TUBE, Breather                                                                                                                             |
| 13     | 820623   |     | SCREW<br>-(Cylinder Head) (9 mm)<br>-Used After Code Date 98123100                                                                         |
| 13     | 820074   |     | SCREW<br>-(Cylinder Head) (8mm)<br>-Used Before Code Date 99010100                                                                         |
| 21     | 825024   |     | CAP, Oil Fill                                                                                                                              |
| 127    | 820004   |     | PLUG, Welch                                                                                                                                |
| 127A   | 820005   |     | PLUG, Welch                                                                                                                                |
| 151    | 820014   |     | STUD<br>-(Exhaust Manifold)                                                                                                                |
| 151A   | 820466   |     | STUD<br>-(Exhaust Manifold)                                                                                                                |
| 276    | 820064   |     | WASHER, Sealing<br>-(Rocker Cover)                                                                                                         |
| 318    | 820024   |     | SCREW<br>-(Mounting Bracket)                                                                                                               |
| 318A   | 820676   |     | SCREW<br>-(Mounting Bracket)                                                                                                               |
| 337    | 491055S  |     | PLUG, Spark                                                                                                                                |
| 337    | 84007216 |     | PLUG, SPARK<br>-(China Only)                                                                                                               |
| 350    | 820078   |     | STUD<br>-(Water Pump)                                                                                                                      |
| 383    | 19374S   |     | WRENCH, Spark Plug                                                                                                                         |
| 493    | 820083   |     | BRACKET, Mounting<br>-(Ignition Coil)                                                                                                      |
| 493A   | 820480   |     | BRACKET, MOUNTING                                                                                                                          |
| 493B   | 820251   |     | BRACKET, Mounting                                                                                                                          |
| 635    | 820084   |     | BOOT, Spark Plug                                                                                                                           |
| 700    | 820037   |     | COIL, Ignition                                                                                                                             |
| 729    | 820672   |     | CLIP-WIRE                                                                                                                                  |
| 773    | 820130   |     | RETAINER<br>-(Valve Guide Bushing)                                                                                                         |
| 806    | 820212   |     | SCREW<br>-(Lifting Bracket)                                                                                                                |
| 806A   | 820024   |     | SCREW<br>-(Lifting Bracket)                                                                                                                |
| 812    | 820071   |     | NUT<br>-(Rocker Cover)                                                                                                                     |
| 871    | 825030   |     | BUSHING, Valve Guide                                                                                                                       |
| 918    | 820393   |     | HOSE, Vacuum                                                                                                                               |
| 1022   | 820150   |     | GASKET, Rocker Cover                                                                                                                       |
| 1023   | 825277   |     | COVER, Rocker<br>-(Order Reference 1019, Label Kit, and Reference 1036, Emissions Label, for your Model, Type, Trim with Engine Date Code) |
| 1077   | 820260   |     | BRACKET, Lifting                                                                                                                           |
| 1077A  | 820254   |     | BRACKET, Lifting                                                                                                                           |
| 1130   | 820015   |     | STUD<br>-(Intake Manifold)                                                                                                                 |
| 1170   | 820012   |     | SCREW<br>-(Ignition Coil)                                                                                                                  |
| 1171   | 820076   |     | STUD<br>-(Rocker Cover)                                                                                                                    |



| REF. NO. | PART NO. | DESCRIPTION                                                                                                                                                                          | REF. NO. | PART NO. | DESCRIPTION                                                                                                                                                                        | REF. NO. | PART NO. | DESCRIPTION                                       |
|----------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|---------------------------------------------------|
| 1        | 825595   | Cylinder Assembly<br>(9 mm Head Bolts)<br>(Used After Code Date 98123100).<br>----- Note -----<br>825026 Cylinder Assembly<br>(8 mm Head Bolts)<br>(Used Before Code Date 99010100). | 523      | 821158   | Dipstick<br>(Short)                                                                                                                                                                | 525      | 820144   | Tube-Dipstick<br>(Short)                          |
| 20       | 821073   | Seal-Oil<br>(PTO Side)                                                                                                                                                               | 523A     | 820646   | Dipstick<br>(Long)<br>Used on Type No(s). 0313, 0333.<br>----- Note -----<br>820572 Dipstick<br>(Long)<br>Used on Type No(s). 0112, 0113.                                          | 525A     | 820652   | Tube-Dipstick<br>(Long)<br>Type No(s) 0313, 0333. |
| 127      | 820004   | Plug-Welch                                                                                                                                                                           | 523B     | 825287   | Dipstick<br>(Used After Code Date 98123100).<br>Used on Type No(s). 0112.<br>----- Note -----<br>825081 Dipstick<br>(Used Before Code Date 99010100).<br>Used on Type No(s). 0112. | 573      | 820170   | Plate-Back                                        |
| 197      | 820176   | Screw<br>(Back Plate)                                                                                                                                                                | 524      | 820654   | Seal-Dipstick Tube                                                                                                                                                                 | 573A     | 820147   | Plate-Back                                        |
| 239      | 821135   | Switch-Oil Pressure                                                                                                                                                                  |          |          |                                                                                                                                                                                    | 573B     | 820917   | Plate-Back                                        |
| 287      | 820273   | Screw<br>(Dipstick Tube)                                                                                                                                                             |          |          |                                                                                                                                                                                    | 591      | 821069   | Plug-Camshaft                                     |
| 292      | 820662   | Collar-Dipstick Tube                                                                                                                                                                 |          |          |                                                                                                                                                                                    | 713      | 821299   | Bushing-Camshaft                                  |
| 415      | 820051   | Plug<br>(Cylinder)                                                                                                                                                                   |          |          |                                                                                                                                                                                    | 718      | 820063   | Pin-Locating                                      |
| 508      | 820031   | Screw<br>(Seal Retainer)                                                                                                                                                             |          |          |                                                                                                                                                                                    | 718A     | 820062   | Pin-Locating                                      |
|          |          |                                                                                                                                                                                      |          |          |                                                                                                                                                                                    | 718B     | 820061   | Pin-Locating                                      |
|          |          |                                                                                                                                                                                      |          |          |                                                                                                                                                                                    | 724      | 820146   | Retainer-Seal                                     |
|          |          |                                                                                                                                                                                      |          |          |                                                                                                                                                                                    | 890      | 820238   | Bracket-Support<br>Used on Type No(s). 0112.      |
|          |          |                                                                                                                                                                                      |          |          |                                                                                                                                                                                    | 1027     | 491056   | Filter-Oil                                        |
|          |          |                                                                                                                                                                                      |          |          |                                                                                                                                                                                    | 1028     | 820851   | Adapter-Oil Filter                                |
|          |          |                                                                                                                                                                                      |          |          |                                                                                                                                                                                    | 1069     | 820102   | Nozzle-Oil                                        |
|          |          |                                                                                                                                                                                      |          |          |                                                                                                                                                                                    | 1080     | 820145   | Gasket-Seal Retainer                              |
|          |          |                                                                                                                                                                                      |          |          |                                                                                                                                                                                    | 1300     | 820042   | Screw<br>(Crankshaft Bearing Cap)                 |

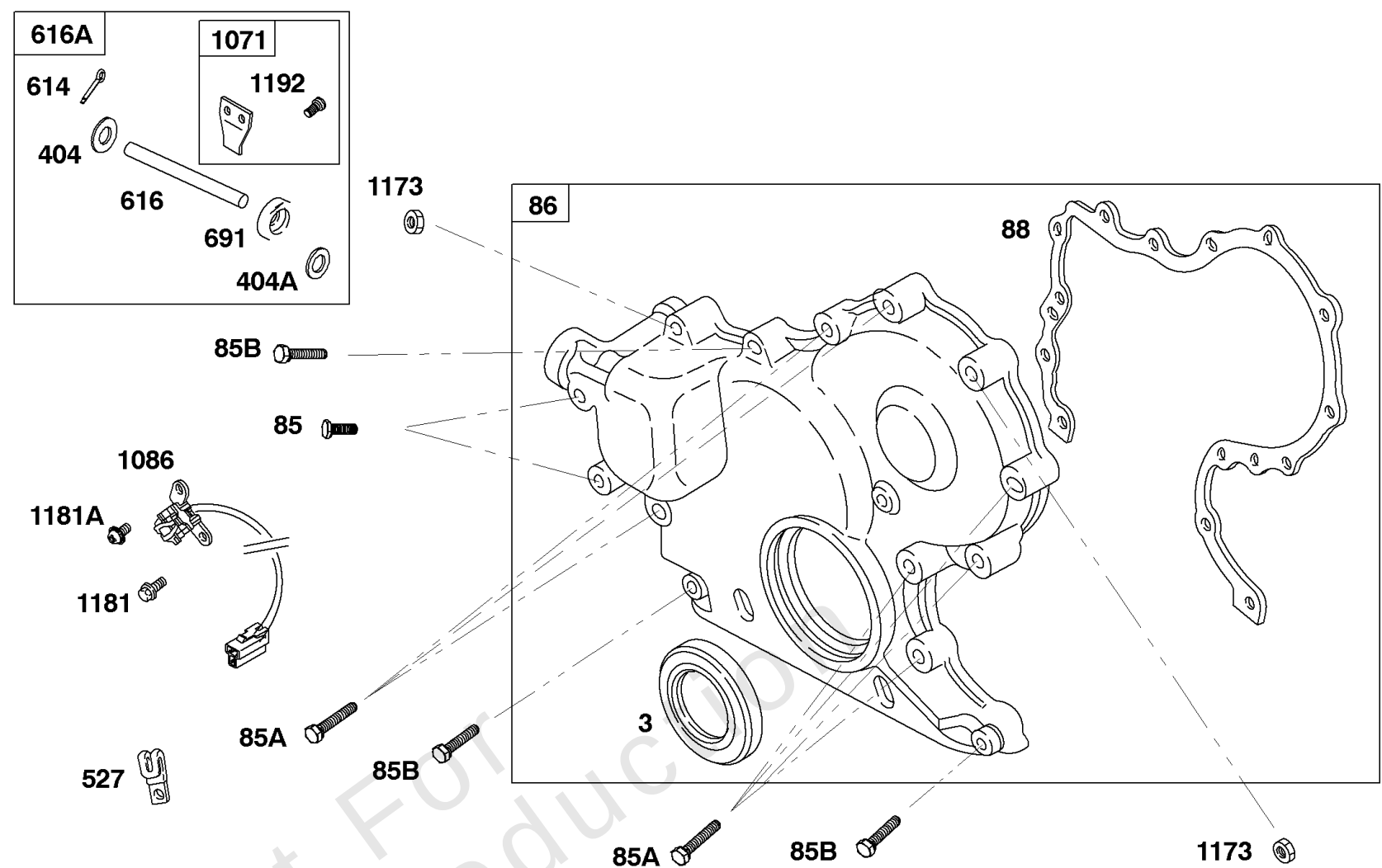
## Cylinder, Backplate, Oil, Dipsticks

| REF NO | PART NO | QTY | DESCRIPTION                                          |
|--------|---------|-----|------------------------------------------------------|
| 1      | 825026  |     | CYLINDER ASSEMBLY<br>-Used Before Code Date 99010100 |
| 1      | 825595  |     | CYLINDER ASSEMBLY<br>-Used After Code Date 98123100  |
| 20     | 821073  |     | SEAL, Oil<br>-(PTO Side)                             |
| 127    | 820004  |     | PLUG, Welch                                          |
| 197    | 820176  |     | SCREW<br>-(Back Plate)                               |
| 239    | 821135  |     | SWITCH, Oil Pressure                                 |
| 287    | 820273  |     | SCREW<br>-(Dipstick Tube)                            |
| 292    | 820662  |     | COLLAR, Dipstick Tube                                |
| 508    | 820031  |     | SCREW<br>-(Seal Retainer)                            |
| 523    | 821158  |     | DIPSTICK<br>-(Short)                                 |
| 523B   | 825287  |     | DIPSTICK<br>-Used After Code Date 98123100           |
| 523B   | 825081  |     | DIPSTICK<br>-Used Before Code Date 99010100          |
| 524    | 820654  |     | SEAL, O-Ring<br>-(Dipstick Tube)                     |
| 525    | 820144  |     | TUBE, Dipstick<br>-(Short)                           |
| 573    | 820170  |     | PLATE, Back                                          |
| 573A   | 820147  |     | PLATE, Back                                          |
| 591    | 821069  |     | PLUG, Camshaft                                       |
| 713    | 821299  |     | BUSHING, Camshaft                                    |
| 718    | 820063  |     | PIN, Locating                                        |
| 718A   | 820062  |     | PIN, Locating                                        |
| 718B   | 820061  |     | PIN, Locating                                        |
| 724    | 820146  |     | RETAINER, Seal                                       |
| 1027   | 491056  |     | FILTER-OIL<br>-(3-1/4)                               |
| 1028   | 820851  |     | ADAPTER, Oil Filter                                  |
| 1069   | 820102  |     | NOZZLE, Oil                                          |
| 1080   | 820145  |     | GASKET, Seal Retainer                                |
| 1300   | 820042  |     | SCREW<br>-(Crankshaft Bearing Cap)                   |



## Engine/Valve Gasket Sets, Terminal Connectors

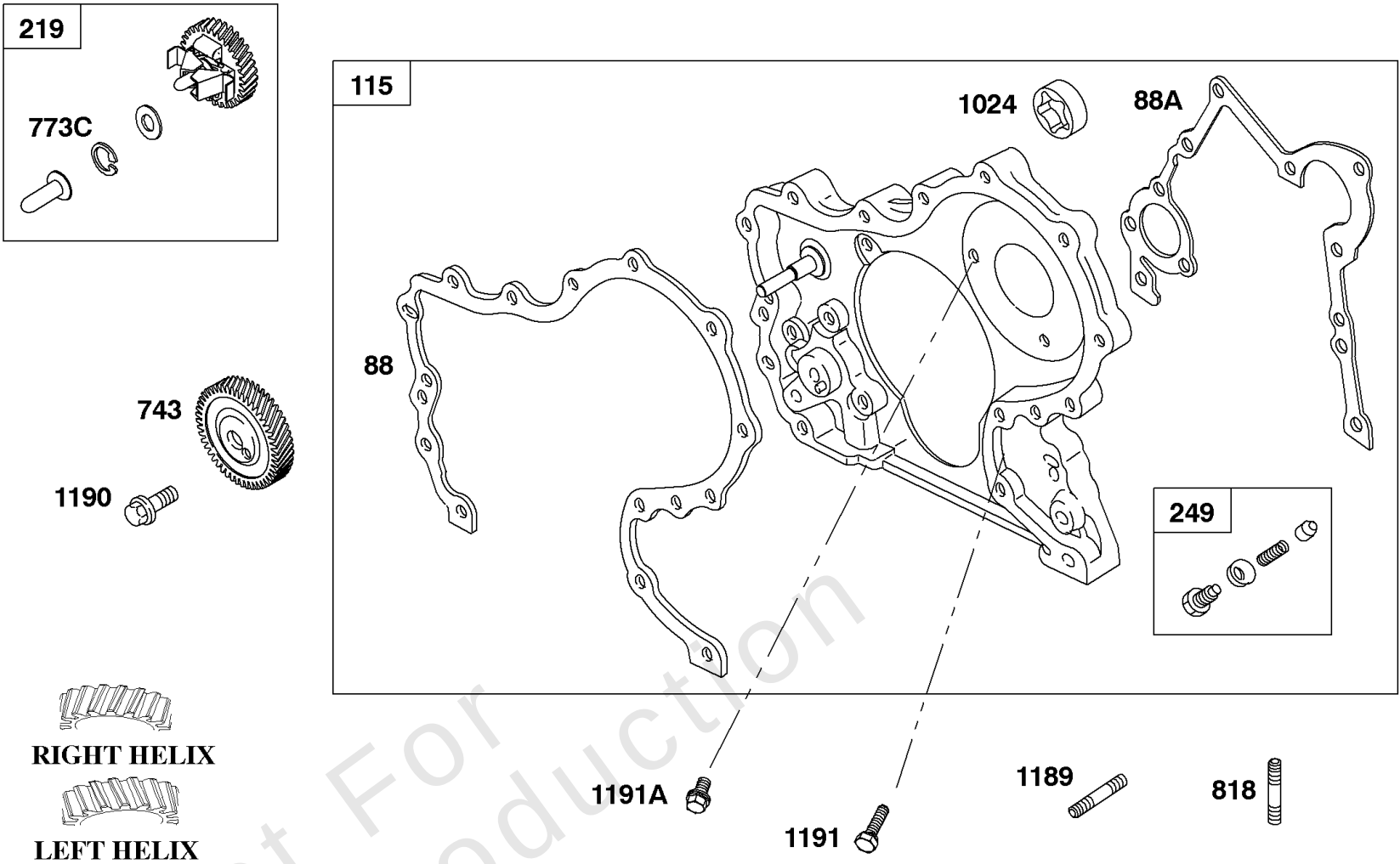
| REF NO | PART NO | QTY | DESCRIPTION                                  |
|--------|---------|-----|----------------------------------------------|
| 3      | 821071  |     | SEAL, Oil<br>-(Magneto Side)                 |
| 7      | 820648  |     | GASKET, Cylinder Head                        |
| 20     | 821073  |     | SEAL, Oil<br>-(PTO Side)                     |
| 51     | 820087  |     | GASKET, Intake                               |
| 51A    | 820385  |     | GASKET, Intake                               |
| 88     | 820148  |     | GASKET, Gear Cover/Housing                   |
| 88A    | 820155  |     | GASKET, Gear Cover/Housing                   |
| 276    | 820064  |     | WASHER, Sealing<br>-(Rocker Cover)           |
| 276C   | 820049  |     | WASHER, Sealing<br>-(Oil Drain Plug )(12 mm) |
| 276C   | 820582  |     | WASHER, Sealing<br>-(Oil Drain Plug)(16mm)   |
| 358    | 825378  |     | GASKET SET, Engine                           |
| 691    | 820054  |     | SEAL, Governor Shaft                         |
| 868    | 820041  |     | SEAL, Valve                                  |
| 883    | 820817  |     | GASKET, Exhaust<br>-(Exhaust Manifold)       |
| 883A   | 821001  |     | GASKET, Exhaust<br>-(Muffler)                |
| 1022   | 820150  |     | GASKET, Rocker Cover                         |
| 1041   | 820104  |     | GASKET, Oil Pump Screen                      |
| 1062   | 820093  |     | GASKET, Outlet Housing                       |
| 1065   | 820098  |     | GASKET, Inlet Housing                        |
| 1067   | 820100  |     | GASKET, Water Pump                           |
| 1078   | 820137  |     | GASKET, Oil Pan                              |
| 1080   | 820145  |     | GASKET, Seal Retainer                        |
| 1084   | 825155  |     | CONNECTOR, Terminal                          |
| 1084A  | 825156  |     | CONNECTOR, Terminal                          |
| 1084D  | 825154  |     | CONNECTOR, Terminal                          |
| 1084F  | 825162  |     | CONNECTOR, Terminal                          |
| 1084G  | 825163  |     | CONNECTOR, Terminal                          |
| 1084H  | 825266  |     | CONNECTOR, Terminal                          |
| 1084B  | 825157  |     | CONNECTOR-TERMINAL                           |
| 1084C  | 825158  |     | CONNECTOR, Terminal                          |
| 1084E  | 825160  |     | CONNECTOR, Terminal                          |
| 1095   | 825339  |     | GASKET SET, Valve                            |



| REF. NO. | PART NO. | DESCRIPTION                                     | REF. NO. | PART NO. | DESCRIPTION                    | REF. NO. | PART NO. | DESCRIPTION                 |
|----------|----------|-------------------------------------------------|----------|----------|--------------------------------|----------|----------|-----------------------------|
| 3        | 821071   | Seal-Oil<br>(Magneto Side)                      | 88       | 820148   | Gasket-Gear<br>Reduction Cover | 527      | 820047   | Clamp-Tube                  |
| 85       | 820026   | Screw<br>(Gear Cover to<br>Gear Reduction Case) | 404      | 820167   | Washer<br>(Governor Crank)     | 1071     | 825086   | Paddle-Governor             |
| 85A      | 820029   | Screw<br>(Gear Cover to<br>Gear Reduction Case) | 404A     | 820169   | Washer<br>(Governor Crank)     | 1086     | 825009   | Trigger-Ignition            |
| 85B      | 820027   | Screw<br>(Gear Cover to<br>Gear Reduction Case) | 614      | 820168   | Pin-Cotter                     | 1173     | 820069   | Nut<br>(Gear Cover)         |
| 86       | 825046   | Cover-Gear                                      | 616      | 820165   | Crank-Governor<br>(Shaft)      | 1181     | 820029   | Screw<br>(Ignition Trigger) |
|          |          |                                                 | 616A     | 825087   | Crank-Governor                 | 1181A    | 820013   | Screw<br>(Ignition Trigger) |
|          |          |                                                 | 691      | 820054   | Seal-Governor Shaft            | 1192     | 820166   | Screw<br>(Governor Paddle)  |

## ***Gear Cover, Governor Crank***

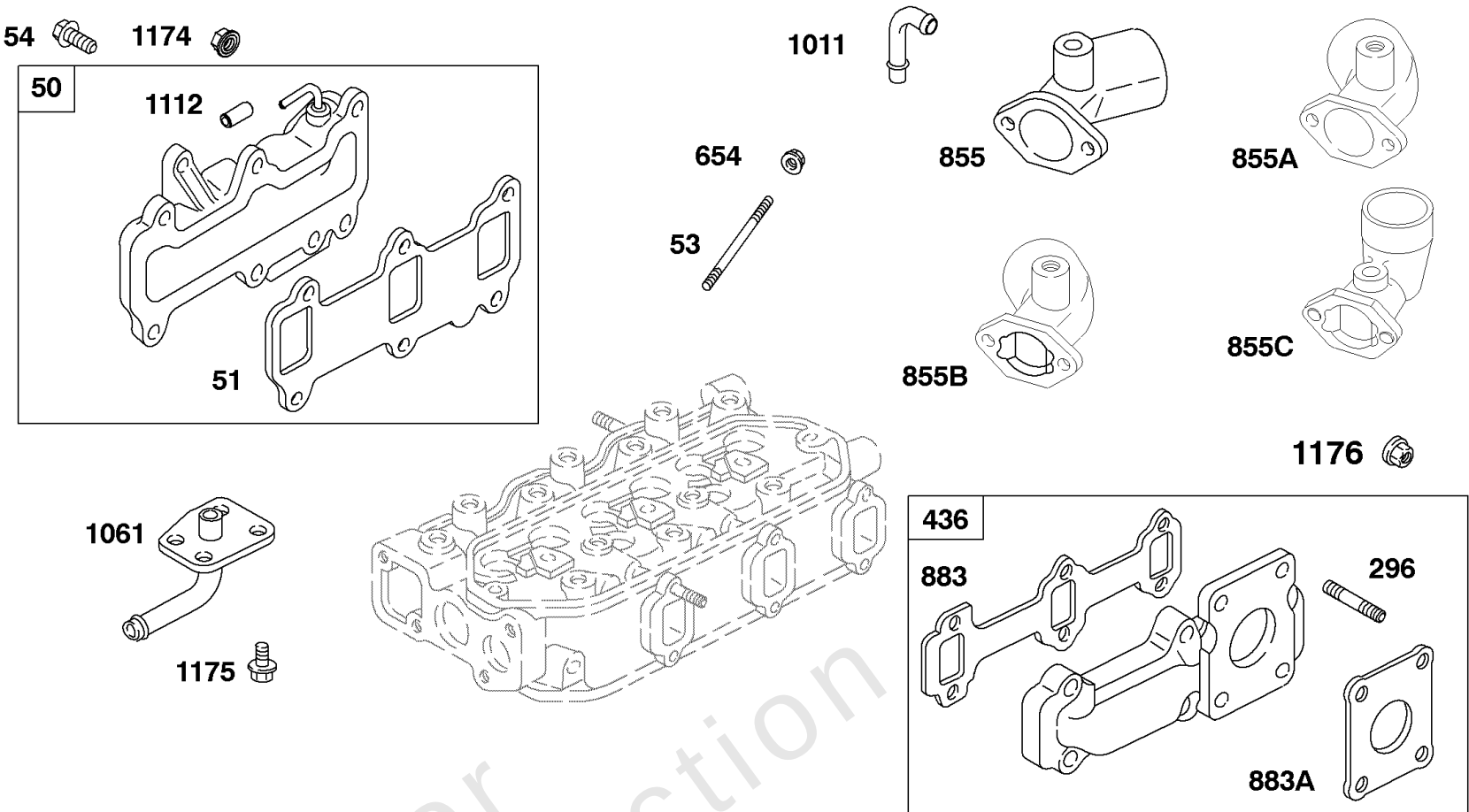
| REF NO | PART NO | QTY | DESCRIPTION                  |
|--------|---------|-----|------------------------------|
| 3      | 821071  |     | SEAL, Oil<br>-(Magneto Side) |
| 85     | 820026  |     | SCREW<br>-(Gear Cover)       |
| 85A    | 820029  |     | SCREW<br>-(Gear Cover)       |
| 85B    | 820027  |     | SCREW<br>-(Gear Cover)       |
| 86     | 825046  |     | COVER, Gear                  |
| 88     | 820148  |     | GASKET, Gear Cover/Housing   |
| 404    | 820167  |     | WASHER<br>-(Governor Crank)  |
| 404A   | 820169  |     | WASHER<br>-(Governor Crank)  |
| 527    | 820047  |     | CLAMP, Hose                  |
| 614    | 820168  |     | PIN, Cotter                  |
| 616    | 820165  |     | CRANK, Governor<br>-(Shaft)  |
| 616A   | 825087  |     | CRANK, Governor              |
| 691    | 820054  |     | SEAL, Governor Shaft         |
| 1071   | 825086  |     | PADDLE, Governor             |
| 1086   | 825009  |     | TRIGGER, Ignition            |
| 1173   | 820069  |     | NUT<br>-(Gear Cover)         |
| 1181   | 820029  |     | SCREW<br>-(Ignition Trigger) |
| 1181A  | 820013  |     | SCREW<br>-(Ignition Trigger) |
| 1192   | 820166  |     | SCREW<br>-(Governor Paddle)  |



| REF. NO. | PART NO. | DESCRIPTION                                                         | REF. NO. | PART NO. | DESCRIPTION                                                      | REF. NO. | PART NO. | DESCRIPTION                                         |
|----------|----------|---------------------------------------------------------------------|----------|----------|------------------------------------------------------------------|----------|----------|-----------------------------------------------------|
| 88       | 820148   | Gasket-Gear Reduction Cover                                         | 249      | 825032   | Valve-Pressure Relief                                            | 818      | 820016   | Stud (Oil Pump Screen)                              |
| 88A      | 820155   | Gasket-Gear Reduction Cover                                         | 743      | 820615   | Gear-Drive (Right Helix) (Used After Code Date 98123100).        | 1024     |          | Pump-Oil (Sold in Gear Housing Only, Reference 115) |
| 115      | 825059   | Housing-Gear                                                        |          |          | ----- Note -----                                                 | 1189     | 820156   | Stud (Gear Housing)                                 |
| 219      | 825331   | Gear-Governor (Right Helix) (Used After Code Date 98123100).        |          |          | 820121 Gear-Drive (Left Helix) (Used Before Code Date 99010100). | 1190     | 820180   | Screw (Drive Gear)                                  |
|          |          | ----- Note -----                                                    | 773C     | 820163   | Retainer (Governor Gear)                                         | 1191     | 820030   | Screw (Gear Housing)                                |
|          |          | 825085 Gear-Governor (Left Helix) (Used Before Code Date 99010100). |          |          |                                                                  | 1191A    | 820033   | Screw (Gear Housing)                                |

## ***Gear Housing, Governor Gear***

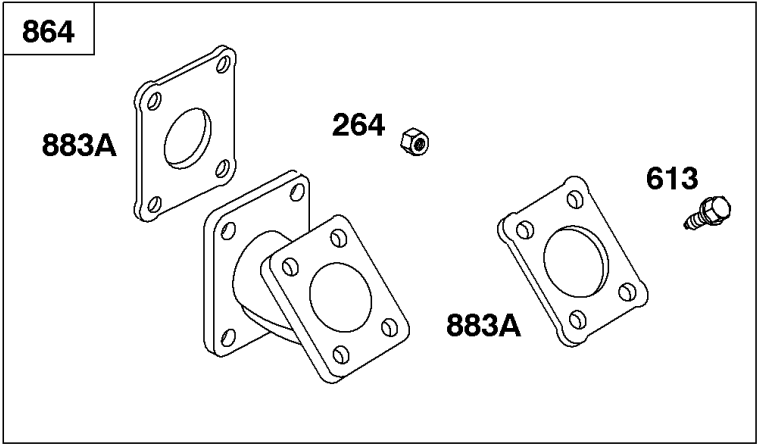
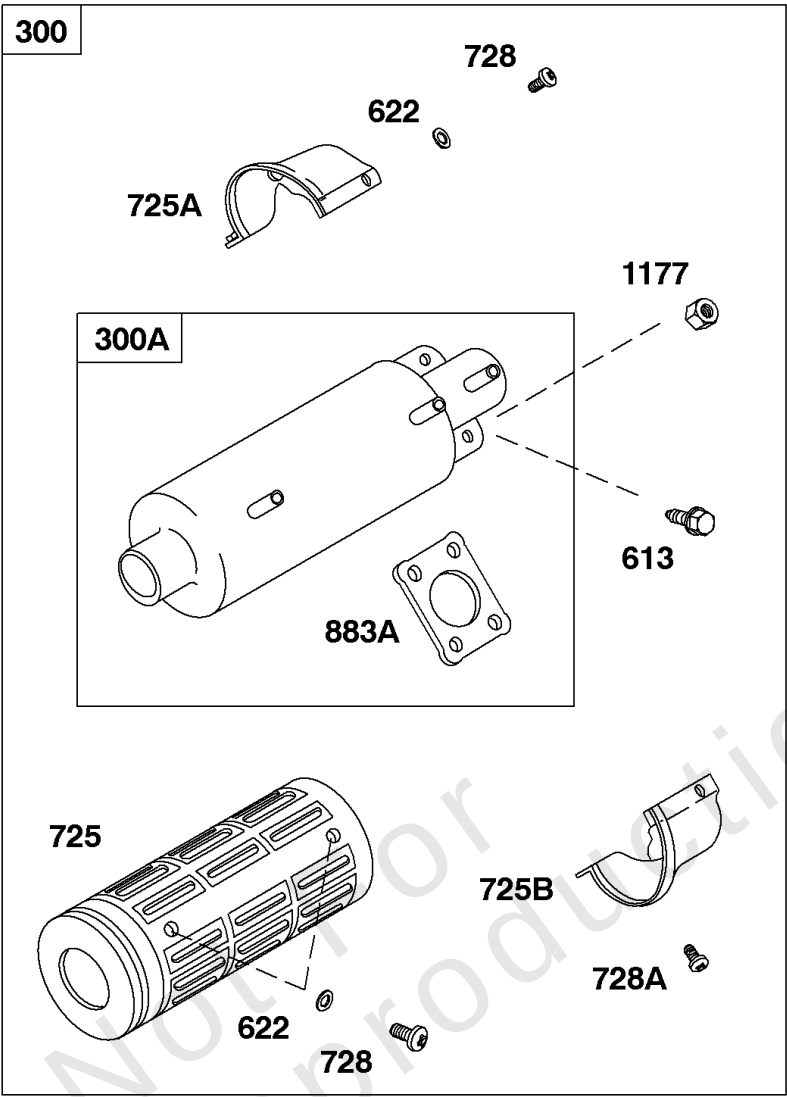
| REF NO | PART NO | QTY | DESCRIPTION                                                        |
|--------|---------|-----|--------------------------------------------------------------------|
| 88     | 820148  |     | GASKET, Gear Cover/Housing                                         |
| 88A    | 820155  |     | GASKET, Gear Cover/Housing                                         |
| 115    | 825059  |     | HOUSING, Gear                                                      |
| 219    | 825331  |     | GEAR, Governor<br>-(Right Helix)<br>-Used After Code Date 98123100 |
| 219    | 825085  |     | GEAR, Governor<br>-(Left Helix)<br>-Used Before Code Date 99010100 |
| 249    | 825032  |     | VALVE, Pressure Relief                                             |
| 743    | 820615  |     | GEAR, Drive<br>-(Right Helix)<br>-Used After Code Date 98123100    |
| 743    | 820121  |     | GEAR, Drive<br>-(Left Helix)<br>-Used Before Code Date 99010100    |
| 773C   | 820163  |     | RETAINER<br>-(Governor Gear)                                       |
| 818    | 820016  |     | STUD<br>-(Oil Pump Screen)                                         |
| 1024   | -----   |     | Pump-Oil<br>-(Sold In Gear Housing Only, Reference 115)            |
| 1189   | 820156  |     | STUD<br>-(Gear Housing)                                            |
| 1190   | 820180  |     | SCREW<br>-(Drive Gear)                                             |
| 1191   | 820030  |     | SCREW<br>-(Gear Housing)                                           |
| 1191A  | 820033  |     | SCREW<br>-(Gear Housing)                                           |



| REF. NO. | PART NO. | DESCRIPTION                                                                                       | REF. NO.                                                                  | PART NO. | DESCRIPTION                                          | REF. NO. | PART NO. | DESCRIPTION                                       |
|----------|----------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------|------------------------------------------------------|----------|----------|---------------------------------------------------|
| 50       | 825261   | Manifold-Intake<br>----- <b>Note</b> -----<br>825260 Manifold-Intake<br>Used on Type No(s). 0311. | 855                                                                       | 820161   | Adapter-Air Cleaner<br>(Parallel to Crankshaft)      | 1011     | 820184   | Tube-Vent<br>(Air Cleaner Adapter)                |
| 51       | 820087   | Gasket-Intake                                                                                     | 855A                                                                      | 820595   | Adapter-Air Cleaner<br>(Perpendicular to Crankshaft) | 1061     | 820090   | Cover-Outlet<br>(Used Before Code Date 01101100). |
| 53       | 820077   | Stud<br>(Carburetor Mounting)                                                                     | 855B                                                                      | 820921   | Adapter-Air Cleaner<br>(Perpendicular to Crankshaft) | 1112     | 820543   | Plug-Vent<br>(Intake Manifold)                    |
| 54       | 820031   | Screw<br>(Intake Manifold)                                                                        | 855C                                                                      | 820446   | Adapter-Air Cleaner<br>Type No(s) 0112, 0113.        | 1174     | 820069   | Nut<br>(Intake Manifold)                          |
| 296      | 820553   | Stud<br>(Muffler)                                                                                 | ----- <b>Note</b> -----<br>821133 Adapter-Air Cleaner<br>Type No(s) 0313. |          |                                                      | 1175     | 820034   | Screw<br>(Outlet Cover)                           |
| 436      | 825055   | Manifold-Exhaust                                                                                  | 883                                                                       | 820817   | Gasket-Exhaust<br>(Exhaust Manifold)                 | 1176     | 820010   | Nut<br>(Exhaust Manifold)                         |
| 654      | 820011   | Nut<br>(Carburetor)                                                                               | 883A                                                                      | 821001   | Gasket-Exhaust<br>(Muffler)                          |          |          |                                                   |

## ***Intake Manifold, Exhaust Manifold***

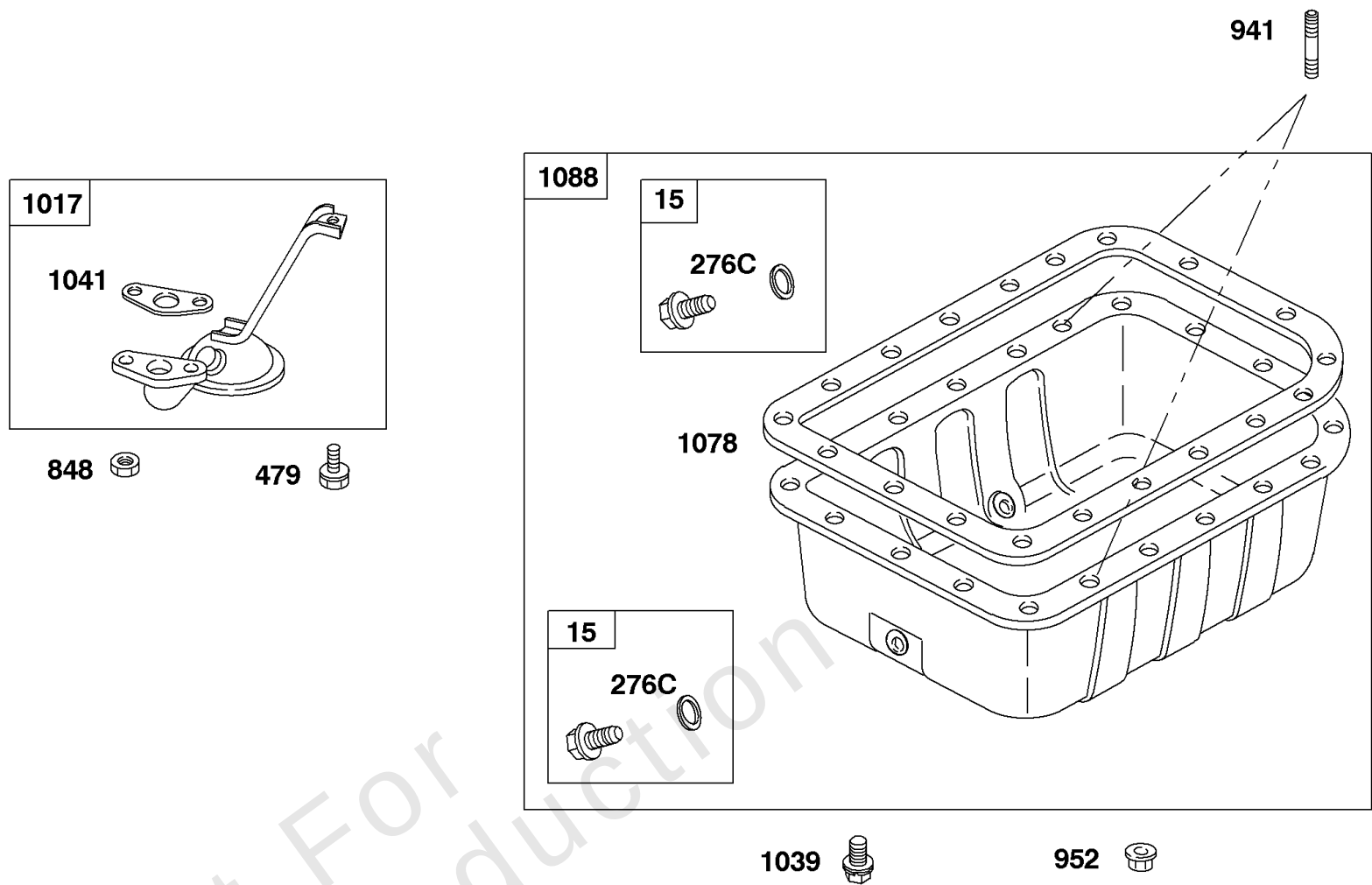
| REF NO | PART NO | QTY | DESCRIPTION                                            |
|--------|---------|-----|--------------------------------------------------------|
| 50     | 825261  |     | MANIFOLD, Intake                                       |
| 51     | 820087  |     | GASKET, Intake                                         |
| 53     | 820077  |     | STUD<br>-(Carburetor)                                  |
| 54     | 820034  |     | SCREW<br>-(Intake Manifold)                            |
| 133    | 825240  |     | FLOAT, Carburetor                                      |
| 296    | 820553  |     | STUD<br>-(Muffler)                                     |
| 309    | 825095  |     | MOTOR, Starter<br>-(0.8KW)                             |
| 436    | 825055  |     | MANIFOLD, Exhaust                                      |
| 654    | 820011  |     | NUT<br>-(Carburetor)                                   |
| 855    | 820161  |     | ADAPTER, Air Cleaner<br>-(Parallel to Crankshaft)      |
| 855A   | 820595  |     | ADAPTER, Air Cleaner<br>-(Perpendicular To Crankshaft) |
| 855B   | 820921  |     | ADAPTER, Air Cleaner<br>-(Perpendicular To Crankshaft) |
| 883    | 820817  |     | GASKET, Exhaust<br>-(Exhaust Manifold)                 |
| 883A   | 821001  |     | GASKET, Exhaust<br>-(Muffler)                          |
| 1011   | 820184  |     | TUBE, Vent<br>-(Air Cleaner Adapter)                   |
| 1061   | 820090  |     | COVER, Outlet<br>-Used Before Code Date 01101100       |
| 1112   | 820543  |     | PLUG, Vent<br>-(Intake Manifold)                       |
| 1112   | 820797  |     | PLUG, Vent<br>-(End Cap)                               |
| 1174   | 820069  |     | NUT<br>-(Intake Manifold)                              |
| 1175   | 820034  |     | SCREW<br>-(Outlet Cover)                               |
| 1176   | 820010  |     | NUT<br>-(Exhaust Manifold)                             |



| REF. NO. | PART NO. | DESCRIPTION              | REF. NO. | PART NO. | DESCRIPTION            | REF. NO. | PART NO. | DESCRIPTION      |
|----------|----------|--------------------------|----------|----------|------------------------|----------|----------|------------------|
| 264      | 820178   | Nut<br>(Muffler Adapter) | 725      | 820628   | Shield-Heat            | 864      | 825358   | Adapter-Muffler  |
| 300      | 825200   | Muffler                  | 725A     | 820630   | Shield-Heat            | 883A     | 821001   | Gasket-Exhaust   |
| 300A     | 825550   | Muffler                  | 725B     | 820629   | Shield-Heat            | 1177     | 820178   | Nut<br>(Muffler) |
| 613      | 820023   | Screw<br>(Muffler)       | 728      | 821011   | Screw<br>(Heat Shield) |          |          |                  |
| 622      | 820631   | Washer<br>(Heat Shield)  | 728A     | 820431   | Screw<br>(Heat Shield) |          |          |                  |

## Muffler, Muffler Adapter

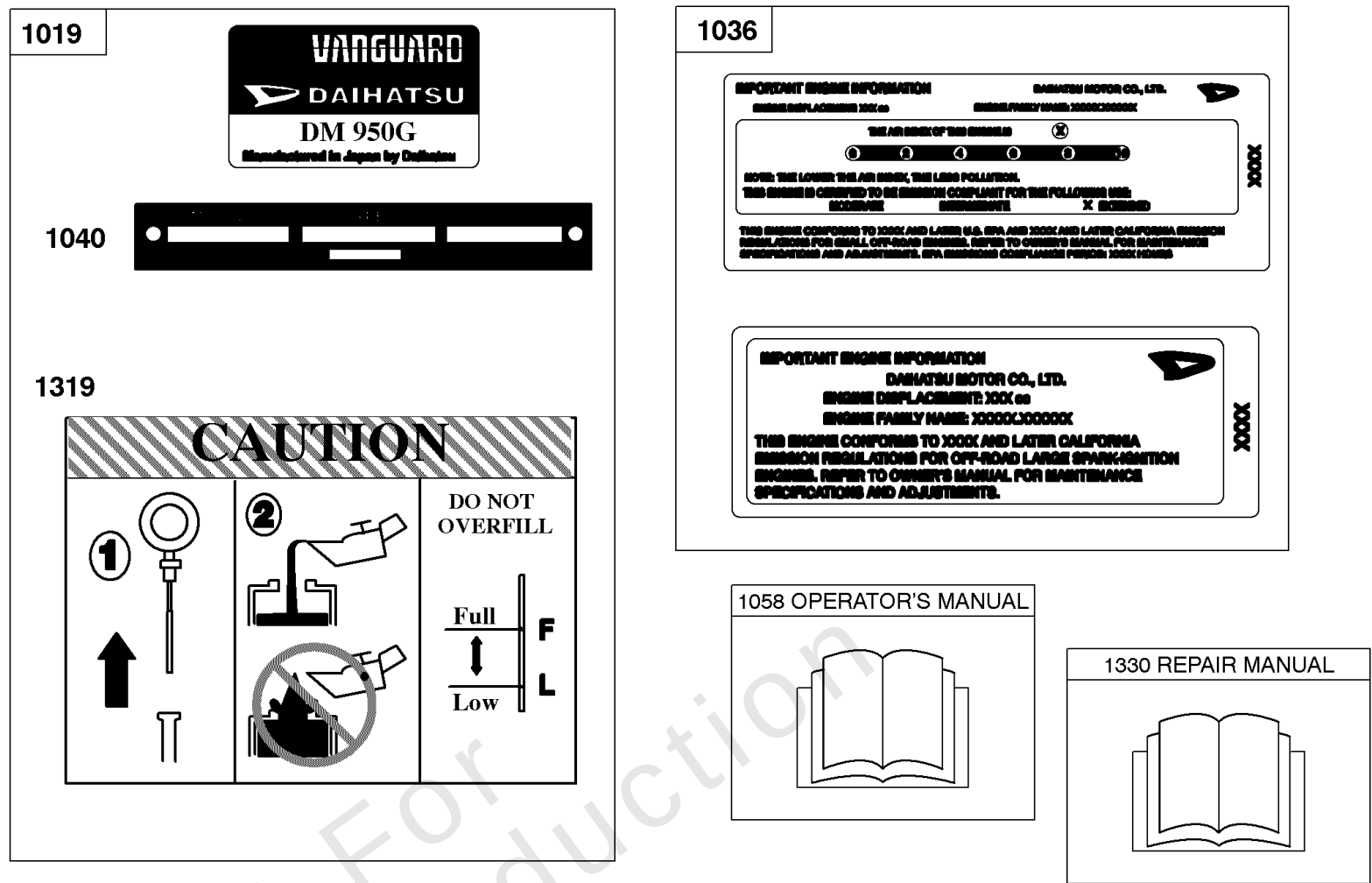
| REF NO | PART NO | QTY | DESCRIPTION                   |
|--------|---------|-----|-------------------------------|
| 264    | 820178  |     | NUT<br>-(Muffler Adapter)     |
| 300    | 825200  |     | MUFFLER                       |
| 300A   | 825550  |     | MUFFLER                       |
| 613    | 820023  |     | SCREW<br>-(Muffler)           |
| 622    | 820631  |     | WASHER<br>-(Heat Shield)      |
| 725    | 820628  |     | SHIELD, Heat                  |
| 725A   | 820630  |     | SHIELD, Heat                  |
| 725B   | 820629  |     | SHIELD, Heat                  |
| 728    | 821011  |     | SCREW<br>-(Heat Shield)       |
| 728A   | 820431  |     | SCREW<br>-(Heat Shield)       |
| 864    | 825358  |     | ADAPTER, Muffler              |
| 883A   | 821001  |     | GASKET, Exhaust<br>-(Muffler) |
| 1177   | 820178  |     | NUT<br>-(Muffler)             |



| REF. NO. | PART NO. | DESCRIPTION                                    | REF. NO. | PART NO. | DESCRIPTION             | REF. NO. | PART NO. | DESCRIPTION                  |
|----------|----------|------------------------------------------------|----------|----------|-------------------------|----------|----------|------------------------------|
| 15       | 825278   | Plug-Oil Drain (16 mm)                         | 479      | 820034   | Screw (Oil Pump Screen) | 1078     | 820137   | Gasket-Oil Pan               |
|          |          | ----- Note -----                               | 848      | 820069   | Nut (Oil Pump Screen)   | 1088     | 825734   | Pan-Oil (Dual Drain) (16 mm) |
|          |          | 825043 Plug-Oil Drain (12 mm)                  | 941      | 820017   | Stud (Oil Pan)          |          |          |                              |
| 276C     | 820582   | Washer-Sealing (Oil Drain Plug) (16 mm)        | 952      | 820068   | Nut (Oil Pan)           |          |          |                              |
|          |          | ----- Note -----                               | 1017     | 825089   | Screen-Oil Pump         |          |          |                              |
|          |          | 820049 Washer-Sealing (Oil Drain Plug) (12 mm) | 1039     | 820034   | Screw (Oil Pan)         |          |          |                              |
|          |          |                                                | 1041     | 820104   | Gasket-Oil Pump Screen  |          |          |                              |

## Oil Pan, Oil Strainer

| REF NO | PART NO | QTY | DESCRIPTION                                  |
|--------|---------|-----|----------------------------------------------|
| 15     | 825278  |     | PLUG, Oil Drain<br>-(16mm)                   |
| 15     | 825043  |     | PLUG, Oil Drain<br>-(12 mm )                 |
| 276C   | 820049  |     | WASHER, Sealing<br>-(Oil Drain Plug )(12 mm) |
| 276C   | 820582  |     | WASHER, Sealing<br>-(Oil Drain Plug)(16mm)   |
| 479    | 820034  |     | SCREW<br>-(Oil Pump Screen)                  |
| 848    | 820069  |     | NUT<br>-(Oil Pump Screen)                    |
| 941    | 820017  |     | STUD<br>-(Oil Pan)                           |
| 952    | 820068  |     | NUT<br>-(Oil Pan)                            |
| 1017   | 825089  |     | SCREEN, Oil Pump                             |
| 1039   | 820034  |     | SCREW<br>-(Oil Pan)                          |
| 1041   | 820104  |     | GASKET, Oil Pump Screen                      |
| 1078   | 820137  |     | GASKET, Oil Pan                              |
| 1088   | 825734  |     | PAN, Oil<br>-(Dual Drain)(16mm)              |

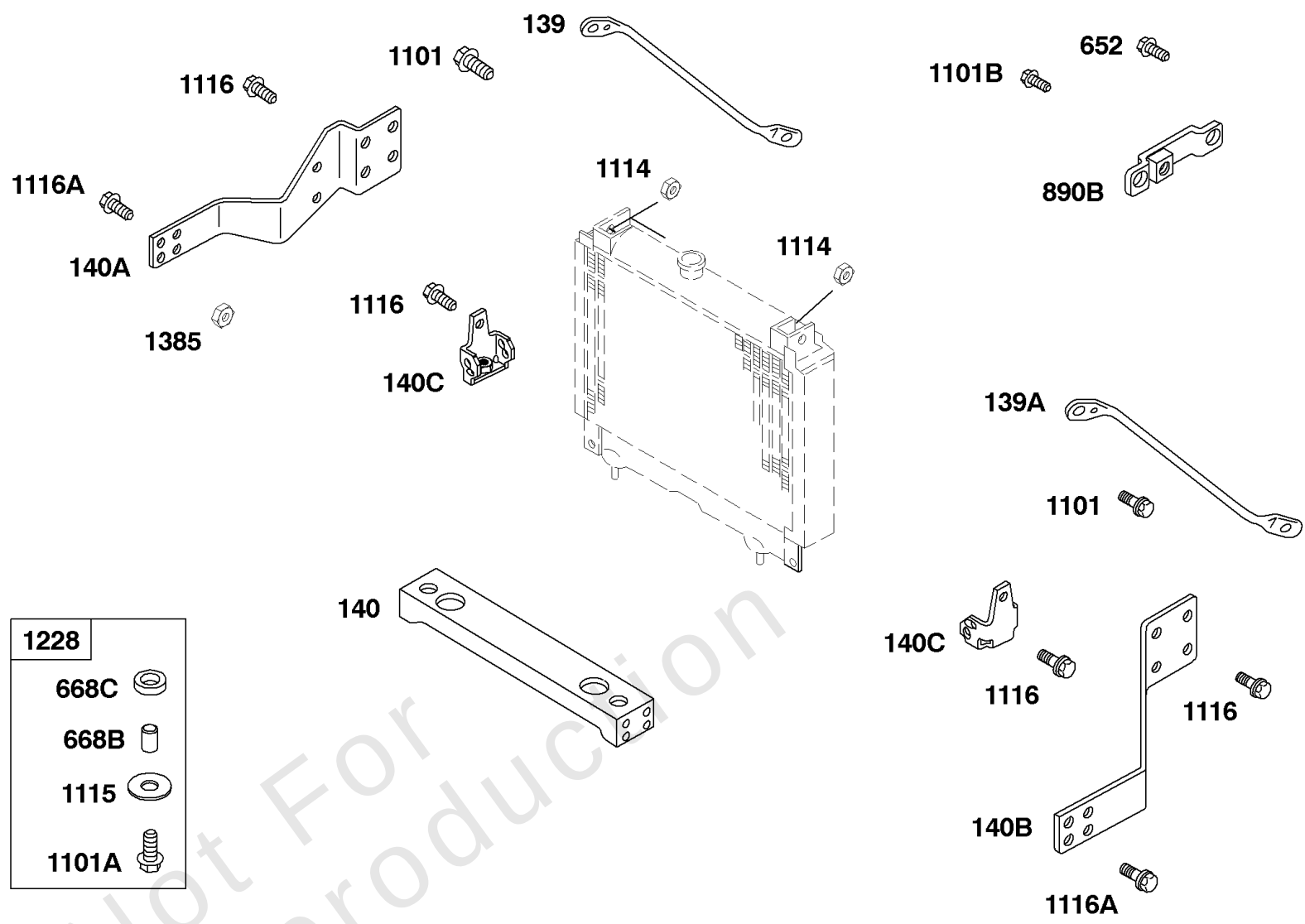


| REF. NO. | PART NO. | DESCRIPTION | REF. NO. | PART NO. | DESCRIPTION                                                                     | REF. NO. | PART NO. | DESCRIPTION                                                                                |
|----------|----------|-------------|----------|----------|---------------------------------------------------------------------------------|----------|----------|--------------------------------------------------------------------------------------------|
| 1019     | 825618   | Kit-Label   | 1036     |          | Label-Emissions<br>(Available from a<br>Briggs & Stratton<br>Authorized Dealer) | 1058     | 820883   | Operator's Manual                                                                          |
|          |          |             |          |          |                                                                                 | 1040     | 820290   | Plate-Trim                                                                                 |
|          |          |             |          |          |                                                                                 | 1319     | 821160   | Label-Warning                                                                              |
|          |          |             |          |          |                                                                                 | 1330     | MS0750   | Repair Manual<br>(Refer to<br>Repair Manual<br>For Assembly<br>and Torque<br>Requirements) |

## ***Operator's Manual, Repair Manual, Label/Emissions Kit***

| REF NO | PART NO | QTY | DESCRIPTION                                                                |
|--------|---------|-----|----------------------------------------------------------------------------|
| 1019   | 825618  |     | KIT, Label                                                                 |
| 1036   | -----   |     | Label-Emissions<br>-(Available From A Briggs & Stratton Authorized Dealer) |
| 1040   | 820290  |     | PLATE, Trim                                                                |
| 1058   | 820883  |     | MANUAL, Operator's                                                         |
| 1319   | 821160  |     | LABEL, Warning                                                             |
| 1330   | MS0750  |     | MANUAL, Repair                                                             |

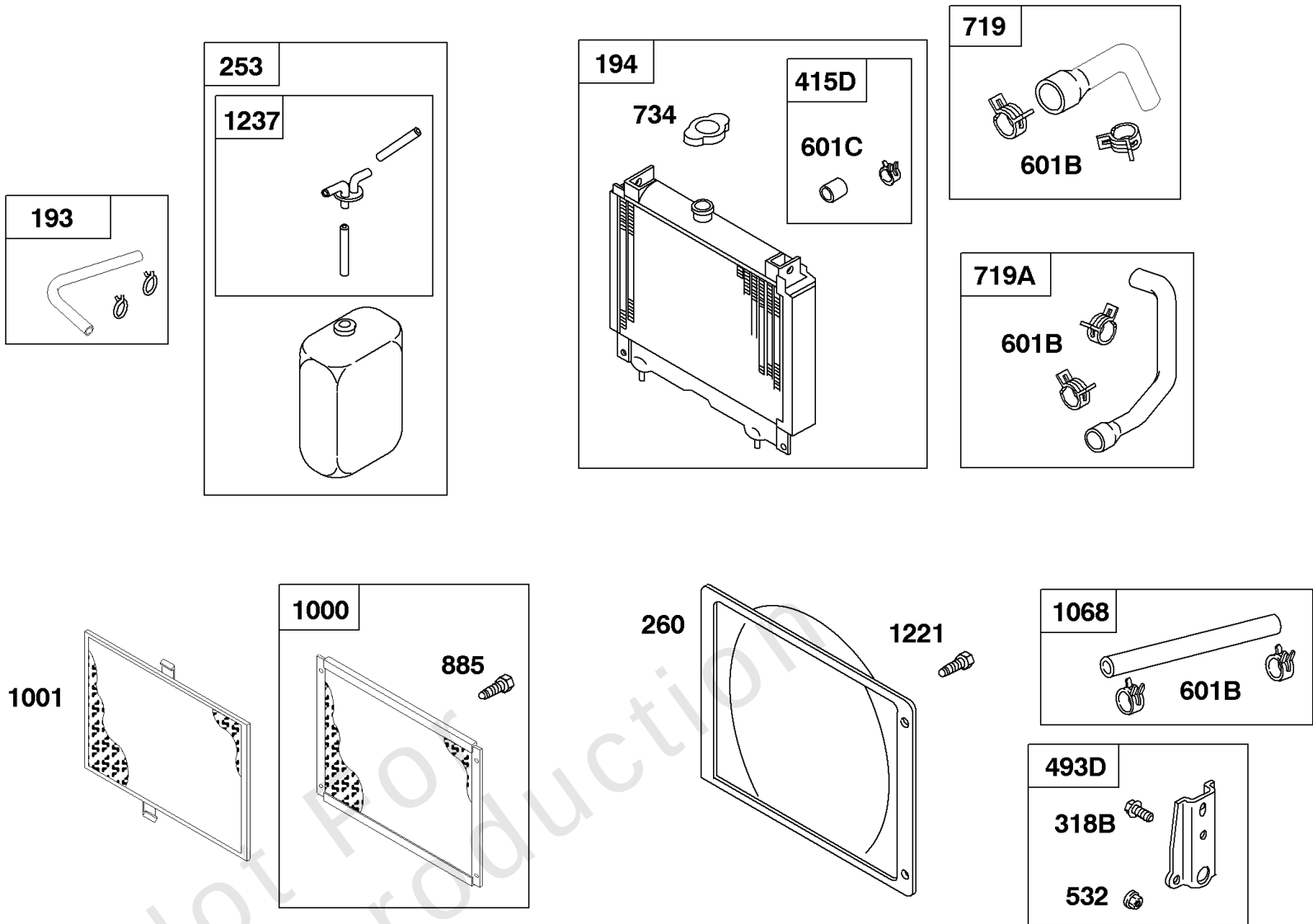
Not For Reproduction



| REF. NO. | PART NO. | DESCRIPTION                                 | REF. NO. | PART NO. | DESCRIPTION                        | REF. NO. | PART NO. | DESCRIPTION               |
|----------|----------|---------------------------------------------|----------|----------|------------------------------------|----------|----------|---------------------------|
| 139      | 820190   | Support-Radiator (Right Hand)               | 652      | 820452   | Screw (Support Bracket) (Radiator) | 1115     | 820296   | Washer (Radiator Support) |
| 139A     | 820191   | Support-Radiator (Left Hand)                | 668B     | 820307   | Spacer (Radiator Mount)            | 1116     | 820023   | Screw (Radiator Bracket)  |
| 140      | 820255   | Bracket-Radiator (Front)                    | 668C     | 820198   | Spacer (Radiator Mount)            | 1116A    | 820878   | Screw (Radiator Bracket)  |
| 140A     | 820192   | Bracket-Radiator (Right Hand)               | 890B     | 820194   | Bracket-Support (Radiator)         | 1228     | 825135   | Mount-Radiator            |
| 140B     | 820193   | Bracket-Radiator (Left Hand)                | 1101     | 820272   | Screw (Radiator Support)           | 1385     | 820011   | Nut (Radiator Bracket)    |
| 140C     | 820294   | Bracket-Radiator (Copper Radiator)          | 1101A    | 820309   | Screw (Radiator Support)           |          |          |                           |
|          |          | ----- Note -----                            | 1101B    | 820273   | Screw (Radiator Support)           |          |          |                           |
|          |          | 821039 Bracket-Radiator (Aluminum Radiator) | 1114     | 820070   | Nut (Radiator Support)             |          |          |                           |

## ***Radiator Mounting Brackets***

| REF NO | PART NO | QTY | DESCRIPTION                               |
|--------|---------|-----|-------------------------------------------|
| 139    | 820190  |     | SUPPORT, Radiator<br>-(Right Hand)        |
| 139A   | 820191  |     | SUPPORT, Radiator<br>-(Left Hand)         |
| 140    | 820255  |     | BRACKET, Radiator<br>-(Front)             |
| 140A   | 820192  |     | BRACKET, Radiator<br>-(Right Hand)        |
| 140B   | 820193  |     | BRACKET, Radiator<br>-(Left Hand)         |
| 140C   | 821039  |     | BRACKET, Radiator<br>-(Aluminum Radiator) |
| 140C   | 820294  |     | BRACKET, Radiator<br>-(Copper Radiator)   |
| 652    | 820452  |     | SCREW<br>-(Support Bracket) (Radiator)    |
| 668B   | 820307  |     | SPACER<br>-(Radiator Mount)               |
| 668C   | 820198  |     | SPACER<br>-(Radiator Mount)               |
| 890B   | 820194  |     | BRACKET, Support<br>-(Radiator)           |
| 1101   | 820272  |     | SCREW<br>-(Radiator Support)              |
| 1101A  | 820309  |     | SCREW<br>-(Radiator Support)              |
| 1101B  | 820273  |     | SCREW<br>-(Radiator Support)              |
| 1114   | 820070  |     | NUT<br>-(Radiator Support)                |
| 1115   | 820296  |     | WASHER<br>-(Radiator Support)             |
| 1116   | 820023  |     | SCREW<br>-(Radiator Bracket)              |
| 1116A  | 820878  |     | SCREW<br>-(Radiator Bracket)              |
| 1228   | 825135  |     | MOUNT, Radiator                           |
| 1385   | 820011  |     | NUT<br>-(Radiator Bracket)                |



| REF. NO. | PART NO. | DESCRIPTION                           | REF. NO. | PART NO. | DESCRIPTION                           | REF. NO. | PART NO. | DESCRIPTION                              |
|----------|----------|---------------------------------------|----------|----------|---------------------------------------|----------|----------|------------------------------------------|
| 193      | 825697   | Hose-Reserve Tank                     | 415D     | 825075   | Plug (Radiator)                       | 1000     | 825103   | Guard-Radiator Used on Type No(s). 0310. |
| 194      | 825068   | Radiator (Copper)                     | 493D     | 825106   | Bracket-Mounting                      | 1001     | 820259   | Screen-Radiator                          |
|          |          | ----- Note -----                      |          |          | ----- Note -----                      | 1068     | 825045   | Hose/Clamp Assembly                      |
|          |          | 825574 Radiator (Aluminum)            |          |          | 825314 Bracket-Mounting               | 1221     | 820865   | Screw (Fan Shroud) (340 mm)              |
|          |          | Used on Type No(s). 0327, 0328, 0333. |          |          | Used on Type No(s). 0115, 0215, 0315. |          |          | ----- Note -----                         |
| 253      | 825462   | Tank-Reserve                          | 532      | 820011   | Nut (Mounting Bracket)                |          |          | 820636 Screw (Fan Shroud) (320 mm)       |
| 260      | 820863   | Shroud-Fan (340 mm)                   | 601B     | 820256   | Clamp-Hose                            |          |          | Used on Type No(s). 0110, 0210, 0310.    |
|          |          | ----- Note -----                      | 601C     | 820201   | Clamp-Hose                            | 1237     | 825461   | Cap/Hose-Reserve                         |
|          |          | 820220 Shroud-Fan (320 mm)            | 719      | 825134   | Hose-Radiator                         |          |          |                                          |
|          |          | Used on Type No(s). 0110, 0210, 0310. | 719A     | 825133   | Hose_Radiator                         |          |          |                                          |
|          |          |                                       | 734      | 820258   | Cap-Radiator                          |          |          |                                          |
|          |          |                                       | 885      | 820636   | Screw (Radiator Guard)                |          |          |                                          |
| 318B     | 820034   | Screw (Mounting Bracket) (Radiator)   |          |          | Used on Type No(s). 0310.             |          |          |                                          |

## ***Radiator, Hoses, Mounting Brackets, Screens***

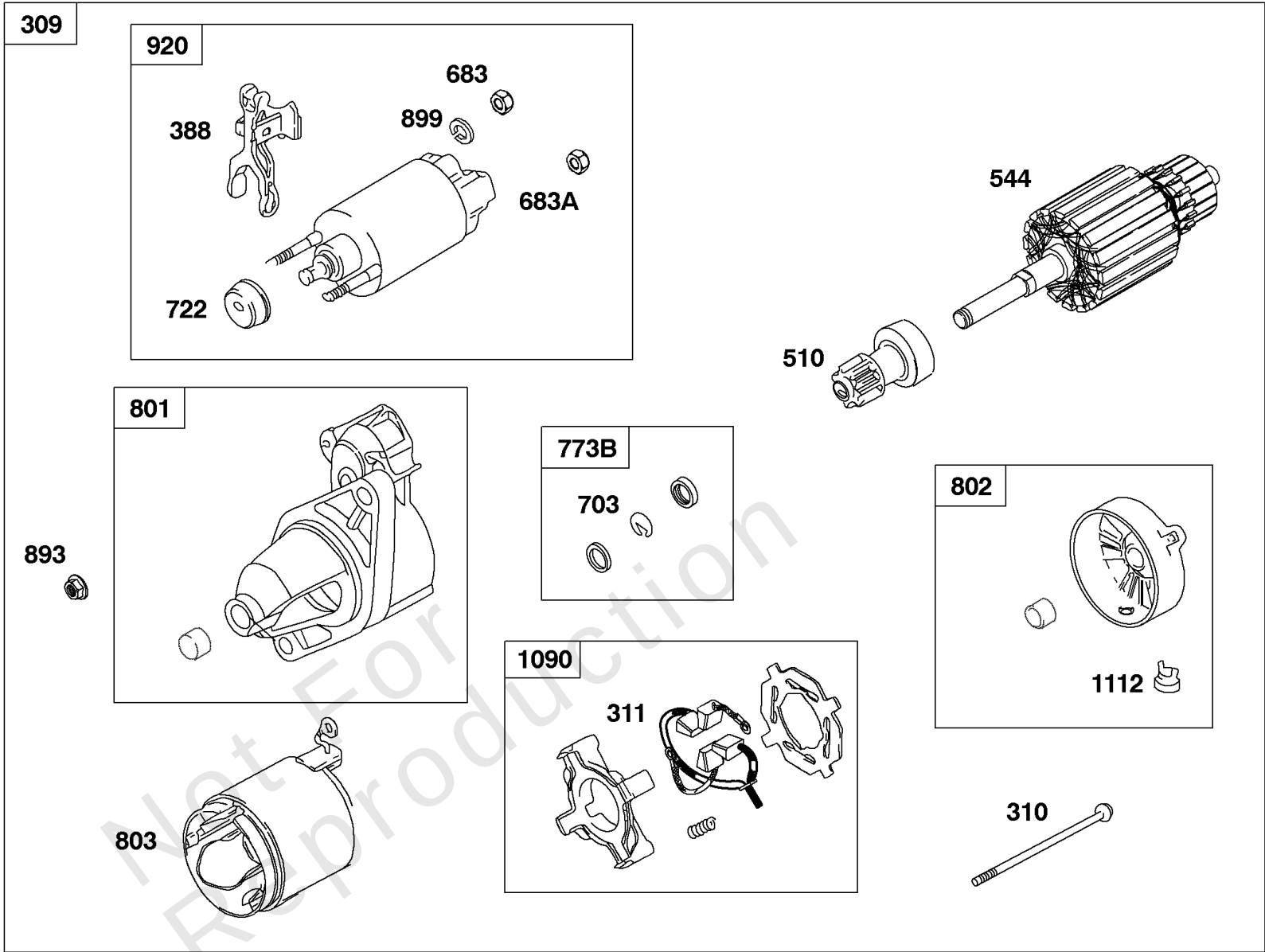
| REF NO | PART NO | QTY | DESCRIPTION                             |
|--------|---------|-----|-----------------------------------------|
| 193    | 825697  |     | HOSE, Reserve Tank                      |
| 253    | 825462  |     | TANK, Reserve                           |
| 260    | 820863  |     | SHROUD, Fan<br>-(340mm)                 |
| 318B   | 820034  |     | SCREW<br>-(Mounting Bracket) (Radiator) |
| 532    | 820011  |     | NUT<br>-(Mounting Bracket)              |
| 719    | 825134  |     | HOSE/CLAMP ASSEMBLY                     |
| 719A   | 825133  |     | HOSE/CLAMP ASSEMBLY                     |
| 734    | 820258  |     | CAP, Radiator                           |
| 1001   | 820259  |     | SCREEN, Radiator                        |
| 1068   | 825045  |     | HOSE/CLAMP ASSEMBLY                     |
| 1221   | 820865  |     | SCREW<br>-(Fan Shroud) (340mm)          |
| 1237   | 825461  |     | CAP, Reserve Tank                       |

*Replacement Engine - US & Canada*

| REF NO | PART NO | QTY | DESCRIPTION |
|--------|---------|-----|-------------|
|--------|---------|-----|-------------|

Not For Reproduction

0.8 KW
 RED LABEL

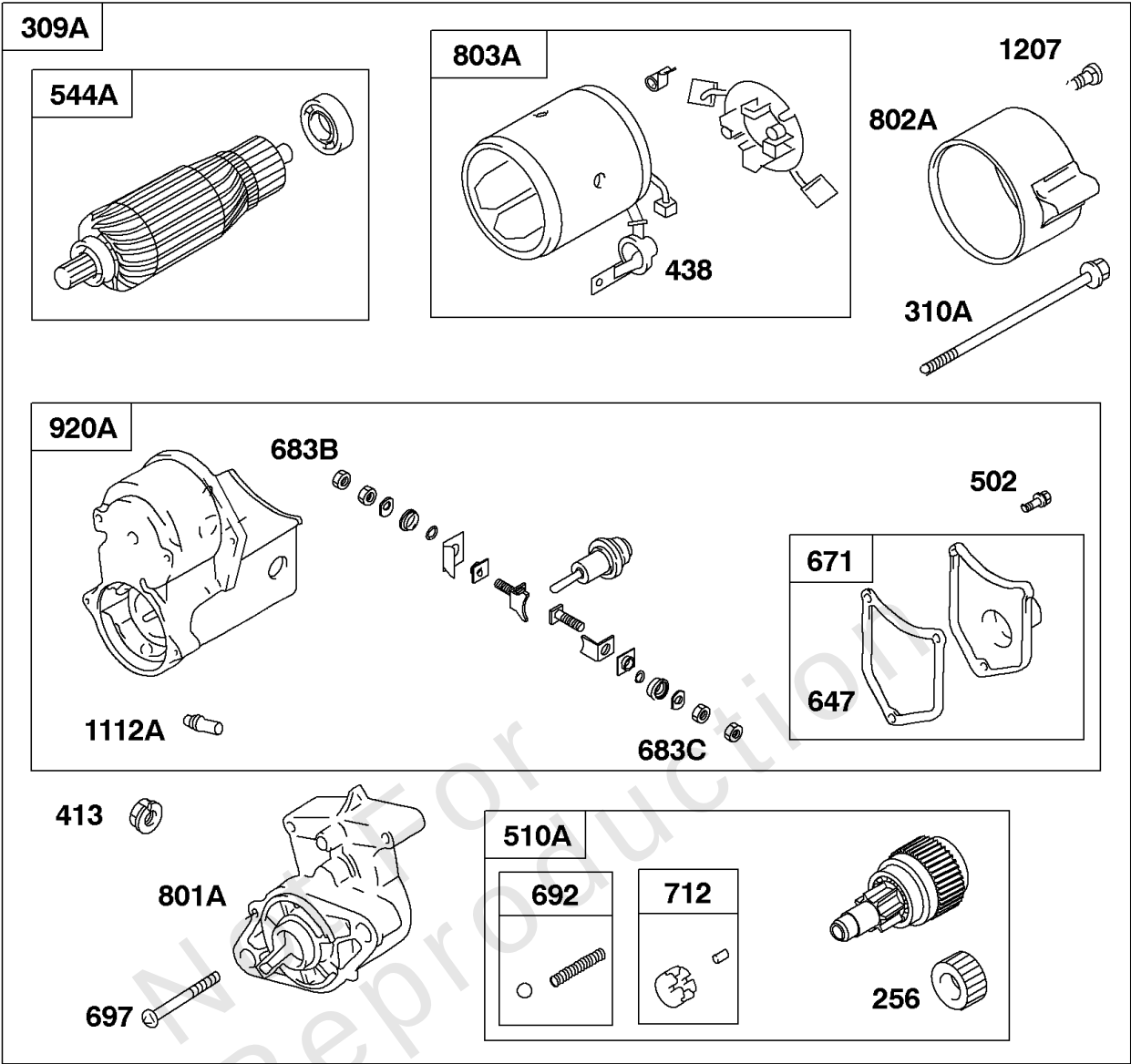


| REF. NO. | PART NO. | DESCRIPTION             | REF. NO. | PART NO. | DESCRIPTION                             | REF. NO. | PART NO. | DESCRIPTION                                |
|----------|----------|-------------------------|----------|----------|-----------------------------------------|----------|----------|--------------------------------------------|
| 309      | 825095   | Motor-Starter           | 683      | 820813   | Nut<br>(Starter Solenoid)<br>(Terminal) | 893      | 820805   | Nut<br>(Starter Solenoid)                  |
| 310      | 820807   | Bolt<br>(Starter Motor) | 683A     | 820809   | Nut<br>(Starter Solenoid)<br>(Terminal) | 899      | 820811   | Washer<br>(Starter Solenoid)<br>(Terminal) |
| 311      | 825411   | Brush Set               | 703      | 820803   | Clip                                    | 920      | 825418   | Solenoid-Starter                           |
| 388      | 820799   | Lever-Pinion Drive      | 722      | 820801   | Seal-Plunger                            | 1090     | 825412   | Retainer-Brush                             |
| 510      | 820789   | Drive-Starter           | 773B     | 825420   | Retainer                                | 1112     | 820797   | Plug-Vent<br>(End Cap)                     |
| 544      | 825414   | Armature-Starter        | 801      | 820791   | Cap-Drive                               |          |          |                                            |
|          |          |                         | 802      | 825416   | Cap-End                                 |          |          |                                            |
|          |          |                         | 803      | 820783   | Housing-Starter                         |          |          |                                            |

**Starter Motor, 0.8KW    RED LABEL**

| REF NO | PART NO | QTY | DESCRIPTION                           |
|--------|---------|-----|---------------------------------------|
| 309    | 825095  |     | MOTOR, Starter<br>-(0.8KW)            |
| 310    | 820807  |     | SCREW<br>-(Starter Motor)             |
| 311    | 825411  |     | SET, Brush                            |
| 388    | 820799  |     | LEVER, Pinion Drive                   |
| 510    | 820789  |     | DRIVE, Starter                        |
| 544    | 825414  |     | ARMATURE, Starter                     |
| 683    | 820813  |     | NUT<br>-(Starter Solenoid) (Terminal) |
| 683A   | 820809  |     | NUT<br>-(Starter Solenoid) (Terminal) |
| 703    | 820803  |     | CLIP                                  |
| 722    | 820801  |     | SEAL, Plunger                         |
| 773B   | 825420  |     | RETAINER                              |
| 801    | 820791  |     | CAP, Drive                            |
| 802    | 825416  |     | CAP, End                              |
| 803    | 820783  |     | HOUSING, Starter                      |
| 893    | 820805  |     | NUT<br>-(Starter Solenoid)            |
| 899    | 820811  |     | WASHER<br>-(Starter Solenoid)         |
| 920    | 825418  |     | SOLENOID, Starter                     |
| 1090   | 825412  |     | RETAINER-BRUSH                        |
| 1112   | 820543  |     | PLUG, Vent<br>-(Intake Manifold)      |
| 1112   | 820797  |     | PLUG, Vent<br>-(End Cap)              |

1.0 KW
 GREEN or BLUE LABEL

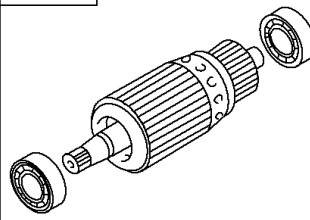
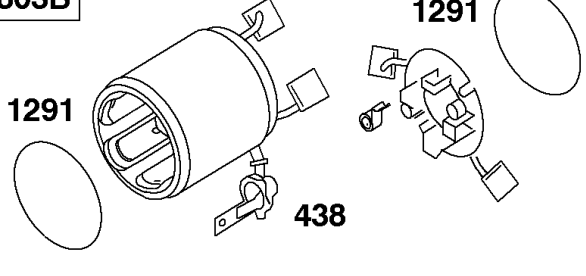
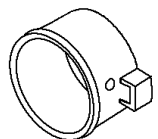
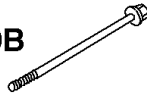
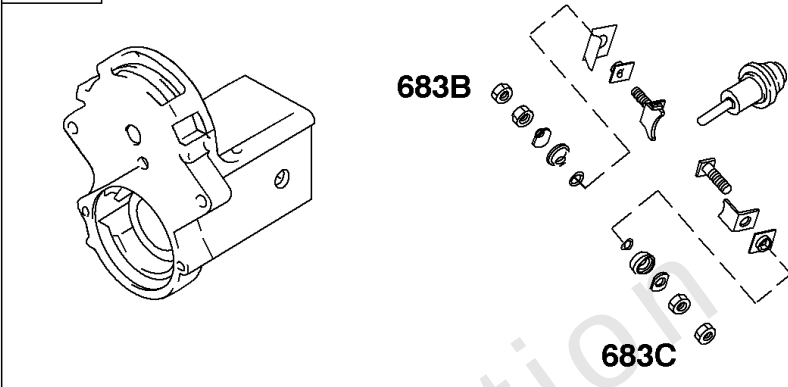
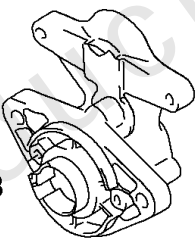
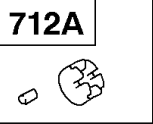


| REF. NO. | PART NO. | DESCRIPTION                                           | REF. NO. | PART NO. | DESCRIPTION                       | REF. NO. | PART NO. | DESCRIPTION                                                    |
|----------|----------|-------------------------------------------------------|----------|----------|-----------------------------------|----------|----------|----------------------------------------------------------------|
| 256      | 820745   | Gear-Starter Drive Motor-Starter                      | 647      | 820733   | Gasket-Solenoid Cover             | 802A     | 820743   | Cap-End                                                        |
| 309A     |          | (For Replacement Starter Motor, Order Reference 309B) | 671      | 825400   | Cover-Solenoid                    | 803A     | 825399   | Housing-Starter (Includes Brushes, Springs and Brush Retainer) |
| 310A     | 820755   | Bolt (Starter Motor)                                  | 683B     | 820723   | Nut (Starter Solenoid) (Terminal) | 892      | 692318   | Switch-Key                                                     |
| 413      | 820067   | Nut (Starter Motor)                                   | 683C     | 820721   | Nut (Starter Solenoid) (Terminal) | 920A     | 825398   | Solenoid-Starter                                               |
| 438      | 820725   | Boot-Terminal                                         | 692      | 825425   | Spring-Detent                     | 1009     | 820019   | Screw (Starter Motor)                                          |
| 502      | 820739   | Screw (Solenoid Cover)                                | 697      | 820751   | Screw (Drive Cap)                 | 1112A    | 820737   | Plug-Vent (Starter Solenoid)                                   |
| 510A     | 825394   | Drive-Starter                                         | 712      | 825424   | Roller-Clutch                     | 1207     | 820754   | Screw (End Cap)                                                |
| 544A     | 825392   | Armature-Starter                                      | 801A     | 825396   | Cap-Drive                         |          |          |                                                                |

***Starter Motor, 1.0KW GREEN OR BLUE LABEL***

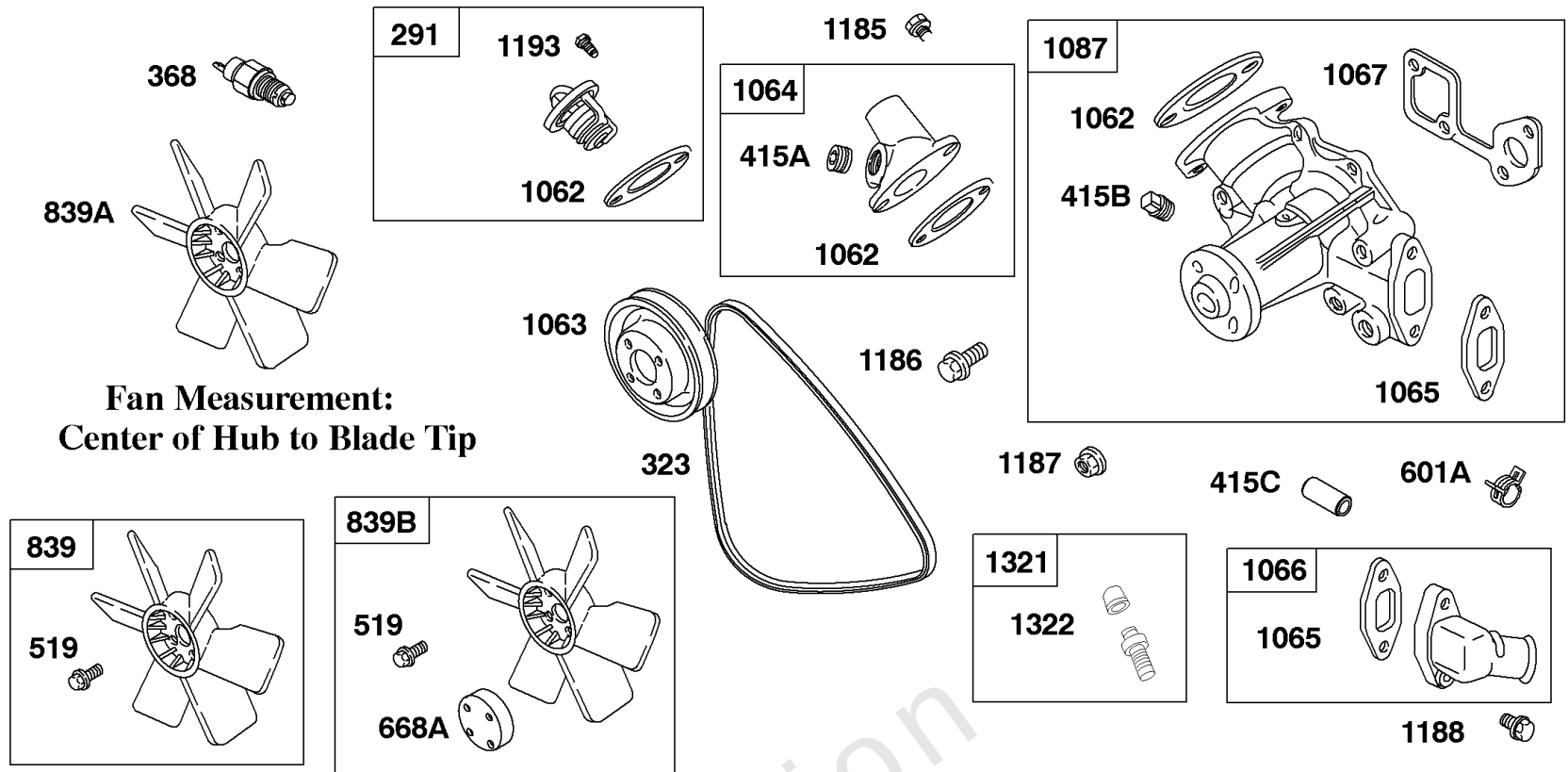
| REF NO | PART NO | QTY | DESCRIPTION                                                             |
|--------|---------|-----|-------------------------------------------------------------------------|
| 256    | 820745  |     | GEAR, Starter Drive                                                     |
| 309A   | -----   |     | Motor-Starter<br>-(For Replacement Starter Motor, Order Reference 309B) |
| 310A   | 820755  |     | SCREW<br>-(Starter Motor)                                               |
| 413    | 820067  |     | NUT<br>-(Starter Motor)                                                 |
| 438    | 820725  |     | BOOT, Terminal                                                          |
| 502    | 820739  |     | SCREW<br>-(Solenoid Cover)                                              |
| 510A   | 825394  |     | DRIVE, Starter                                                          |
| 544A   | 825392  |     | ARMATURE, Starter                                                       |
| 647    | 820733  |     | GASKET, Solenoid Cover                                                  |
| 671    | 825400  |     | COVER, Solenoid                                                         |
| 683B   | 820723  |     | NUT<br>-(Starter Solenoid) (Terminal)                                   |
| 683C   | 820721  |     | NUT<br>-(Starter Solenoid) (Terminal)                                   |
| 692    | 825425  |     | SPRING, Detent                                                          |
| 697    | 820751  |     | SCREW<br>-(Drive Cap)                                                   |
| 712    | 825424  |     | ROLLER, Clutch                                                          |
| 801A   | 825396  |     | CAP, Drive                                                              |
| 802A   | 820743  |     | CAP, End                                                                |
| 803A   | 825399  |     | HOUSING, Starter<br>-(Includes Brushes, Springs and Brush Retainer)     |
| 892    | 692318  |     | SWITCH, Key                                                             |
| 920A   | 825398  |     | SOLENOID, Starter                                                       |
| 1009   | 820019  |     | SCREW<br>-(Starter Motor)                                               |
| 1112A  | 820737  |     | PLUG, Vent<br>-(Starter Solenoid)                                       |
| 1207   | 820754  |     | SCREW<br>-(End Cap)                                                     |

1.2 KW PURPLE/BROWN LABEL

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |                                                       |                                                                                                                                                   |             |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------|
| <div><div>309B</div><div><div>544B</div><div></div></div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |                                                       | <div><div>803B</div><div><div>1291</div><div></div></div></div> |             |                                                   | <div><div>1207A</div><div></div></div> <div><div>802B</div><div></div></div> <div><div>1112B</div><div></div></div> <div><div>310B</div><div></div></div> |             |                                                          |
| <div><div>920B</div><div></div></div> <div><div>413</div><div></div></div> <div><div>697A</div><div></div></div> <div><div>801B</div><div></div></div> <div><div>510B</div><div><div>256A</div><div></div></div></div> <div><div>712A</div><div></div></div> <div><div>692A</div><div></div></div> |             |                                                       |                                                                                                                                                   |             |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |                                                          |
| REF.<br>NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | PART<br>NO. | DESCRIPTION                                           | REF.<br>NO.                                                                                                                                       | PART<br>NO. | DESCRIPTION                                       | REF.<br>NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | PART<br>NO. | DESCRIPTION                                              |
| 256A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 820767      | Gear-Starter Drive                                    | 683B                                                                                                                                              | 820723      | Nut<br>(Starter Solenoid)<br>(Terminal)           | 803B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 825423      | Housing-Starter                                          |
| 309B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 825700      | Motor-Starter                                         | 683C                                                                                                                                              | 820721      | Nut<br>(Starter Solenoid)<br>(Terminal)           | 920B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 825702      | Solenoid-Starter<br>(Used After Code Date<br>05022800).  |
| 310B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 820773      | Bolt<br>(Starter Motor)                               | 692A                                                                                                                                              | 825402      | Spring-Detent                                     | ----- Note -----                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |                                                          |
| 413                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 820067      | Nut<br>(Starter Motor)                                | 697A                                                                                                                                              | 820777      | Screw<br>(Drive Cap)                              | 825410                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 825410      | Solenoid-Starter<br>(Used Before Code<br>Date 05030100). |
| 438                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 820725      | Boot-Terminal                                         | 712A                                                                                                                                              | 825401      | Roller-Clutch                                     | 1009                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 820019      | Screw<br>(Starter Motor)                                 |
| 502A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 820763      | Screw<br>(Solenoid Cover)                             | 801B                                                                                                                                              | 821228      | Cap-Drive<br>(Used After Code Date<br>05022800).  | 1112B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 820779      | Plug-Vent<br>(End Cap)                                   |
| 510B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 825406      | Drive-Starter                                         | ----- Note -----                                                                                                                                  |             |                                                   | 1207A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 820775      | Screw<br>(End Cap)                                       |
| 544B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 825404      | Armature-Starter                                      | 825408                                                                                                                                            | 825408      | Cap-Drive<br>(Used Before Code<br>Date 05030100). | 1291                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 820769      | Seal-O Ring<br>(Starter Housing)                         |
| 647A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 820719      | Gasket-Solenoid<br>Cover                              | 802B                                                                                                                                              | 821231      | Cap-End<br>(Used After Code Date<br>05022800).    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |                                                          |
| 671A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 825703      | Cover-Solenoid<br>(Used After Code Date<br>05022800). | ----- Note -----                                                                                                                                  |             |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |                                                          |
| ----- Note -----                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |                                                       | 820771                                                                                                                                            | 820771      | Cap-End<br>(Used Before Code                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |                                                          |
| 825422 Cover-Solenoid<br>(Used Before Code<br>Date 05030100).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |                                                       |                                                                                                                                                   |             |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |                                                          |

## ***Starter Motor, 1.2 KW Purple or Brown Label***

| REF NO | PART NO | QTY | DESCRIPTION                                          |
|--------|---------|-----|------------------------------------------------------|
| 256A   | 820767  |     | GEAR, Starter Drive                                  |
| 309B   | 825700  |     | MOTOR, Starter<br>-(1.2 KW)(Purple/Brown Label)      |
| 310B   | 820773  |     | SCREW<br>-(Starter Motor)                            |
| 413    | 820067  |     | NUT<br>-(Starter Motor)                              |
| 438    | 820725  |     | BOOT, Terminal                                       |
| 502A   | 820763  |     | SCREW<br>-(Solenoid Cover)                           |
| 510B   | 825406  |     | DRIVE, Starter                                       |
| 544B   | 825404  |     | ARMATURE, Starter                                    |
| 647A   | 820719  |     | GASKET, Solenoid Cover                               |
| 671A   | 825703  |     | COVER, Solenoid<br>-Used After Code Date 05022800    |
| 671A   | 825422  |     | COVER, Solenoid<br>-Used Before Code Date 05030100   |
| 683B   | 820723  |     | NUT<br>-(Starter Solenoid) (Terminal)                |
| 683C   | 820721  |     | NUT<br>-(Starter Solenoid) (Terminal)                |
| 692A   | 825402  |     | SPRING, Detent                                       |
| 697A   | 820777  |     | SCREW<br>-(Drive Cap)                                |
| 712A   | 825401  |     | ROLLER, Clutch                                       |
| 801B   | 825408  |     | CAP, Drive<br>-Used Before Code Date 05030100        |
| 801B   | 821228  |     | CAP, Drive<br>-Used After Code Date 05022800         |
| 802B   | 821231  |     | CAP, End<br>-Used After Code Date 05022800           |
| 802B   | 820771  |     | CAP, End<br>-Used Before Code Date 05030100          |
| 803B   | 825423  |     | HOUSING, Starter                                     |
| 920B   | 825702  |     | SOLENOID, Starter<br>-Used After Code Date 05022800  |
| 920B   | 825410  |     | SOLENOID, Starter<br>-Used Before Code Date 05030100 |
| 1009   | 820019  |     | SCREW<br>-(Starter Motor)                            |
| 1112B  | 820779  |     | PLUG, Vent<br>-(End Cap)                             |
| 1207A  | 820775  |     | SCREW<br>-(End Cap)                                  |
| 1291   | 820769  |     | SEAL, O-Ring<br>-(Starter Housing)                   |



| REF.<br>NO. | PART<br>NO. | DESCRIPTION                                                                                                                                                                                     | REF.<br>NO. | PART<br>NO. | DESCRIPTION                                                                                                                                                          | REF.<br>NO. | PART<br>NO. | DESCRIPTION                                                                                                                            |
|-------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 291         | 825064      | Thermostat                                                                                                                                                                                      | 601A        | 821031      | Clamp-Hose<br>Used on Type No(s).<br>0205, 0305, 0311.                                                                                                               | 1064        | 825074      | Housing-Outlet<br>(Straight)                                                                                                           |
| 323         | 821075      | Belt-Vee<br>(940 mm)<br>----- <b>Note</b> -----<br>820893 Belt-Vee<br>(970 mm)                                                                                                                  | 668A        | 820218      | Spacer<br>(Radiator Fan)<br>Used on Type No(s).<br>0310, 0313, 0315,<br>0316.                                                                                        |             |             | ----- <b>Note</b> -----<br>825267 Housing-<br>Housing<br>(Horizontal)<br>Used on Type No(s).<br>0112, 0113, 0220,<br>0311, 0313, 0320. |
| 368         | 820208      | Switch-Water<br>Temperature<br>(115 Degree)<br>----- <b>Note</b> -----<br>820906 Switch-<br>Water Temperature<br>(105 Degree)<br>Used on Type No(s).<br>0220, 0320.                             | 839         | 825454      | Fan-Radiator<br>(320 mm Less Spacer)<br>----- <b>Note</b> -----<br>825136 Fan-Radiator<br>(320 mm Puller<br>with Spacer)<br>Used on Type No(s).<br>0313, 0315, 0316. | 1065        | 820098      | Gasket-Inlet Housing                                                                                                                   |
| 415A        | 820052      | Plug<br>(Outlet Housing)                                                                                                                                                                        | 839A        | 820096      | Fan-Radiator<br>(290 mm Pusher)<br>Used on Type No(s).<br>0305.                                                                                                      | 1066        | 825051      | Housing-Inlet                                                                                                                          |
| 415B        | 820182      | Plug<br>(Water Pump)                                                                                                                                                                            | 839B        | 825076      | Fan-Radiator<br>(Pusher)<br>Used on Type No(s).<br>0310.                                                                                                             | 1067        | 820100      | Gasket-Water Pump                                                                                                                      |
| 415C        | 821017      | Plug<br>Used on Type No(s).<br>0205, 0305, 0311.                                                                                                                                                | 1062        | 820093      | Gasket-Outlet<br>Housing                                                                                                                                             | 1087        | 825265      | Pump-Water<br>----- <b>Note</b> -----<br>825275 Pump-Water<br>Used on Type No(s).<br>0305.                                             |
| 519         | 820034      | Screw<br>(Radiator Fan)<br>----- <b>Note</b> -----<br>820030 Screw<br>(Radiator Fan)<br>Used on Type No(s).<br>0110, 0112, 0113,<br>0115, 0116, 0210,<br>0215, 0216, 0310,<br>0313, 0315, 0316. | 1063        | 820095      | Pulley-Pump                                                                                                                                                          |             |             | 825567 Pump-Water<br>Used on Type No(s).<br>0311.                                                                                      |
|             |             |                                                                                                                                                                                                 |             |             |                                                                                                                                                                      | 1185        | 820031      | Screw<br>(Outlet Housing)                                                                                                              |
|             |             |                                                                                                                                                                                                 |             |             |                                                                                                                                                                      | 1186        | 820022      | Screw<br>(Water Pump)                                                                                                                  |
|             |             |                                                                                                                                                                                                 |             |             |                                                                                                                                                                      | 1187        | 820181      | Nut<br>(Water Pump)                                                                                                                    |
|             |             |                                                                                                                                                                                                 |             |             |                                                                                                                                                                      | 1188        | 820031      | Screw<br>(Inlet Housing)                                                                                                               |
|             |             |                                                                                                                                                                                                 |             |             |                                                                                                                                                                      | 1193        | 820185      | Screw<br>(Thermostat)                                                                                                                  |
|             |             |                                                                                                                                                                                                 |             |             |                                                                                                                                                                      | 1321        | 825638      | Plug-Bleeder                                                                                                                           |
|             |             |                                                                                                                                                                                                 |             |             |                                                                                                                                                                      | 1322        | 821035      | Cap-Bleeder                                                                                                                            |

## Water Pump, Radiator Fan, Vee Belt

| REF NO | PART NO | QTY | DESCRIPTION                                |
|--------|---------|-----|--------------------------------------------|
| 291    | 825064  |     | THERMOSTAT                                 |
| 323    | 820893  |     | BELT, Vee<br>-(970 mm)                     |
| 323    | 821075  |     | BELT, Vee<br>-(940mm)                      |
| 368    | 820208  |     | SWITCH, Water Temperature<br>-(115 Degree) |
| 415C   | 821017  |     | PLUG<br>-(Radiator Drain)                  |
| 519    | 820034  |     | SCREW<br>-(Radiator Fan)                   |
| 601A   | 821031  |     | CLAMP, Hose                                |
| 668A   | 820065  |     | SPACER<br>-(Rocker Arm Shaft) (Includes 3) |
| 839    | 825454  |     | FAN, Radiator<br>-(320mm Less Spacer)      |
| 1062   | 820093  |     | GASKET, Outlet Housing                     |
| 1063   | 820095  |     | PULLEY, Pump                               |
| 1064   | 825074  |     | HOUSING, Outlet<br>-(Straight)             |
| 1065   | 820098  |     | GASKET, Inlet Housing                      |
| 1066   | 825051  |     | HOUSING, Inlet                             |
| 1067   | 820100  |     | GASKET, Water Pump                         |
| 1087   | 825265  |     | PUMP, Water                                |
| 1185   | 820031  |     | SCREW<br>-(Outlet Housing)                 |
| 1186   | 820022  |     | SCREW<br>-(Water Pump)                     |
| 1187   | 820181  |     | NUT<br>-(Water Pump)                       |
| 1188   | 820031  |     | SCREW<br>-(Inlet Housing)                  |
| 1193   | 820185  |     | SCREW<br>-(Thermostat)                     |
| 1321   | 825638  |     | PLUG, Bleeder                              |
| 1322   | 821035  |     | CAP, Bleeder                               |

