



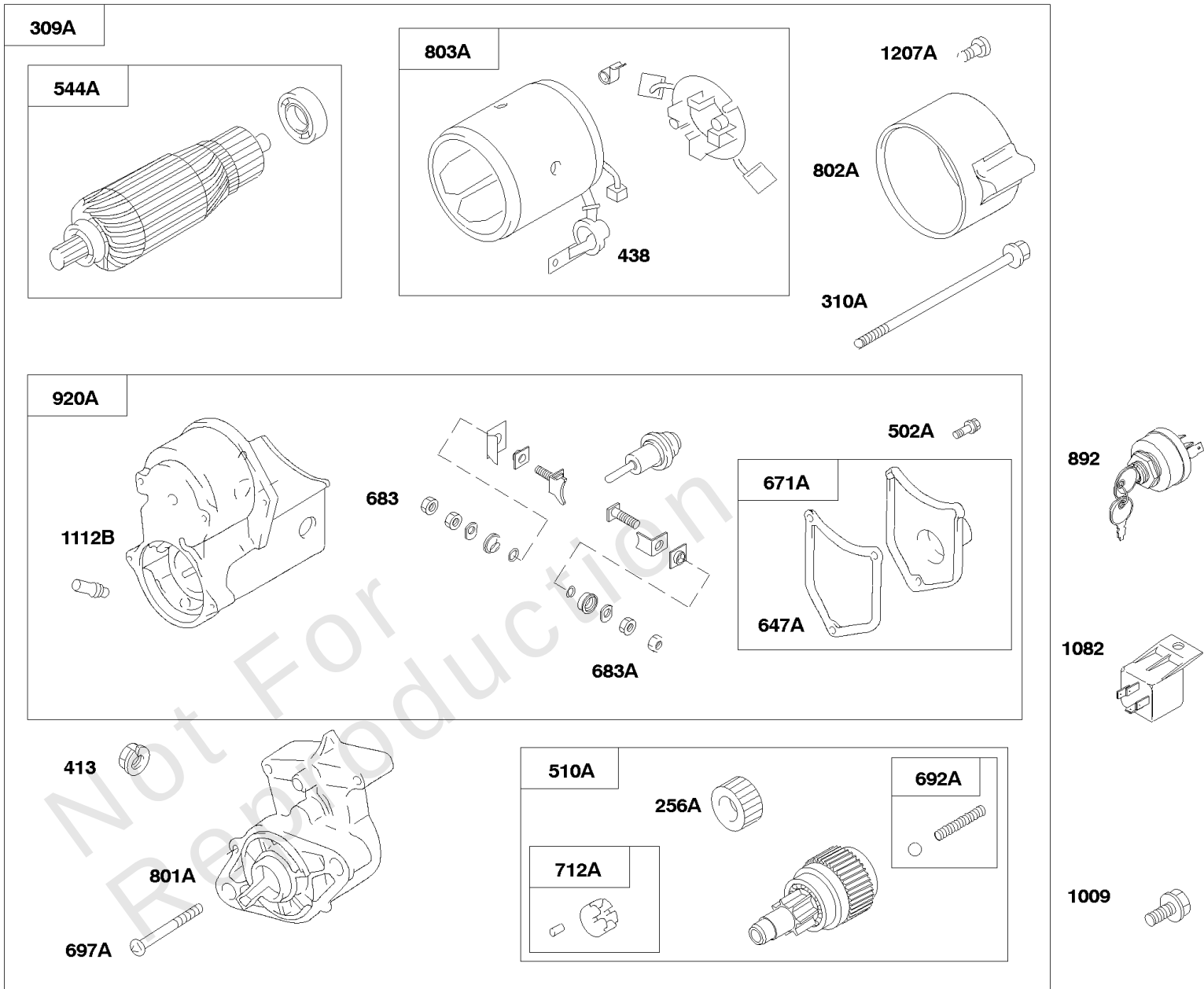
# Parts Manual

Mfg. No: 522447-0314-E2



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1.0KW BLUE/GREEN LABEL

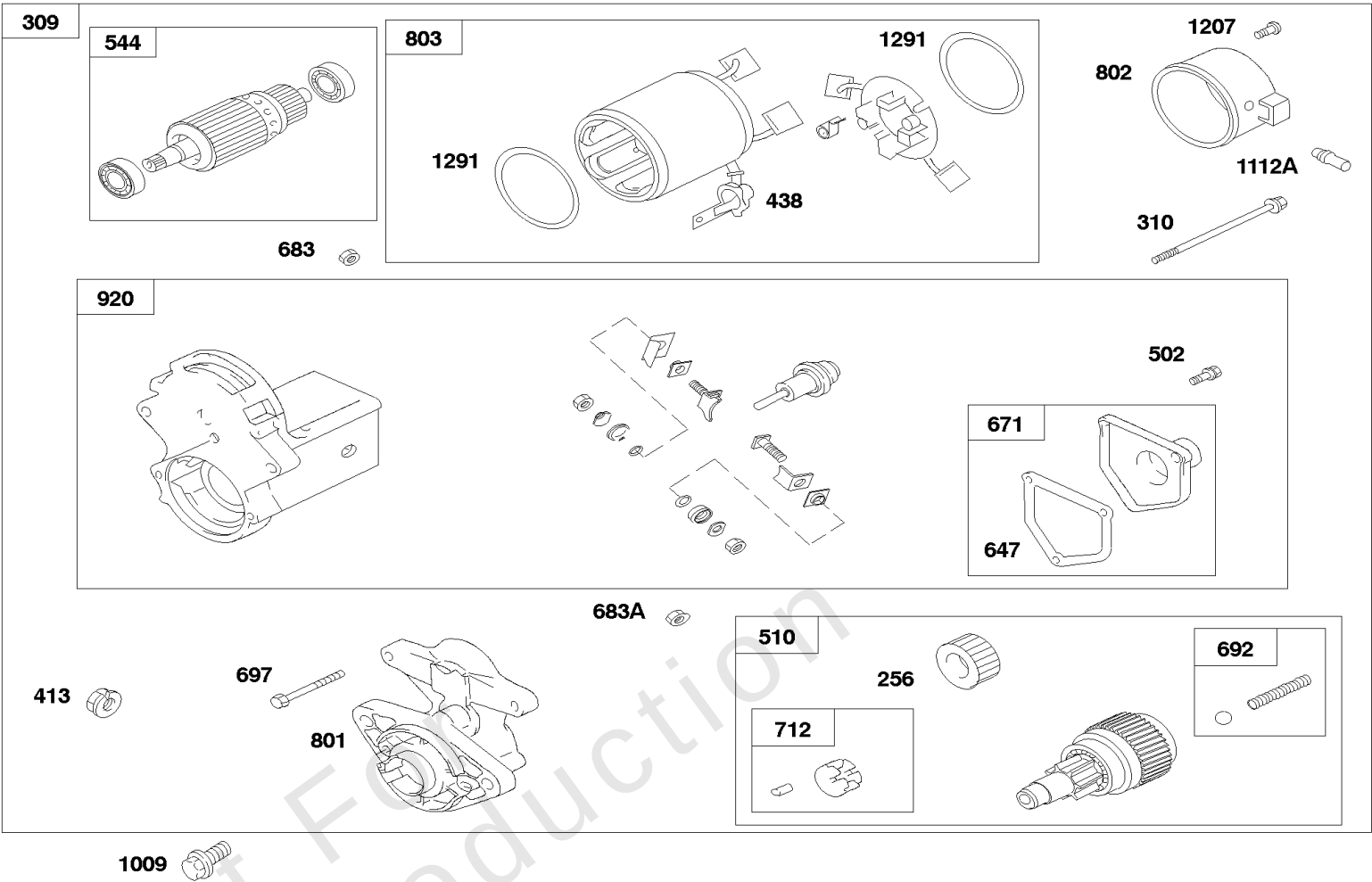


| REF. NO. | PART NO. | DESCRIPTION          | REF. NO. | PART NO. | DESCRIPTION        | REF. NO. | PART NO. | DESCRIPTION        |
|----------|----------|----------------------|----------|----------|--------------------|----------|----------|--------------------|
| 256A     | 820745   | Gear-Starter Drive   | 510A     | 825394   | Drive-Starter      | 801A     | 825396   | Cap-Drive          |
| 309A     |          | Motor-Starter        | 544A     | 825392   | Armature-Starter   | 802A     | 820743   | Cap-End            |
|          |          | (For Replacement     | 647A     | 820733   | Gasket-            | 803A     | 825399   | Housing-Starter    |
|          |          | Starter Motor, Order |          |          | Solenoid Cover     |          |          | (Includes Brushes, |
|          |          | Reference 309)       | 671A     | 825400   | Cover-Solenoid     |          |          | Springs and        |
|          |          | Used on Type No(s).  | 683      | 820723   | Nut                | 892      | 692318   | Switch-Key         |
|          |          | 0105, 0107, 0111,    |          |          | (Starter Solenoid) | 920A     | 825398   | Solenoid-Starter   |
|          |          | 0314, 0376.          |          |          | (Terminal)         | 1009     | 820019   | Screw              |
| 310A     | 820755   | Bolt                 | 683A     | 820721   | Nut                |          |          | (Starter Motor)    |
|          |          | (Starter Motor)      |          |          | (Starter Solenoid) | 1082     | 820455   | Relay-Starter      |
| 413      | 820067   | Nut                  |          |          | (Terminal)         | 1112B    | 820737   | Plug-Vent          |
|          |          | (Starter Motor)      | 692A     | 825425   | Spring-Detent      | 1207A    | 820754   | Screw              |
| 438      | 820725   | Boot-Terminal        | 697A     | 820751   | Screw              |          |          | (End Cap)          |
| 502A     | 820739   | Screw                |          |          | (Drive Cap)        |          |          |                    |
|          |          | (Solenoid Cover)     | 712A     | 825424   | Roller-Clutch      |          |          |                    |

## 1.0 KW Starter Motor

| REF NO | PART NO | QTY | DESCRIPTION                                                              |
|--------|---------|-----|--------------------------------------------------------------------------|
| 256A   | 820745  |     | GEAR, Starter Drive<br>-(1.0 KW) (Green/Blue Label)                      |
| 309A   | -----   |     | Motor-Starter<br>-(For Replacement Starter Motor, Order Reference 309)   |
| 310A   | 820755  |     | SCREW<br>-(Starter Motor) (1.0 KW) (Green/Blue Label)                    |
| 413    | 820067  |     | NUT<br>-(Starter Motor)                                                  |
| 438    | 820725  |     | BOOT, Terminal                                                           |
| 502A   | 820739  |     | SCREW<br>-(Solenoid Cover) (1.0 KW) (Green/Blue Label)                   |
| 510A   | 825394  |     | DRIVE, Starter<br>-(1.0 KW) (Green/Blue Label)                           |
| 544A   | 825392  |     | ARMATURE, Starter<br>-(1.0 KW) (Green/Blue Label)                        |
| 647A   | 820733  |     | GASKET, Solenoid Cover<br>-(1.0 KW) (Green/Blue Label)                   |
| 671A   | 825400  |     | COVER, Solenoid<br>-(1.0 KW) (Green/Blue Label)                          |
| 683    | 820723  |     | NUT<br>-(Starter Solenoid) (Terminal)<br>-Used Before Code Date 05030100 |
| 683    | 820067  |     | NUT<br>-(Starter Solenoid) (Terminal)<br>-Used After Code Date 05022800  |
| 683A   | 820721  |     | NUT<br>-(Starter Solenoid) (Terminal)                                    |
| 692A   | 825425  |     | SPRING, Detent<br>-(1.0 KW) (Green/Blue Label)                           |
| 697A   | 820751  |     | SCREW<br>-(Drive Cap) (1.0 KW) (Green/Blue Label)                        |
| 712A   | 825424  |     | ROLLER, Clutch<br>-(1.0 KW) (Green/Blue Label)                           |
| 801A   | 825396  |     | CAP, Drive<br>-(1.0 KW) (Green/Blue Label)                               |
| 802A   | 820743  |     | CAP, End<br>-(1.0 KW) (Green/Blue Label)                                 |
| 803A   | 825399  |     | HOUSING, Starter<br>-(1.0 KW) (Green/Blue Label)                         |
| 892    | 692318  |     | SWITCH, Key                                                              |
| 920A   | 825398  |     | SOLENOID, Starter<br>-(1.0 KW) (Green/Blue Label)                        |
| 1009   | 820019  |     | SCREW<br>-(Starter Motor)                                                |
| 1082   | 820455  |     | RELAY, Starter<br>-(1.0 KW) (Green/Blue Label)                           |
| 1112B  | 820737  |     | PLUG, Vent<br>-(1.0 KW) (Green/Blue Label)                               |
| 1207A  | 820754  |     | SCREW<br>-(End Cap) (1.0 KW) (Green/Blue Label)                          |

1.2 KW PURPLE/BROWN LABEL

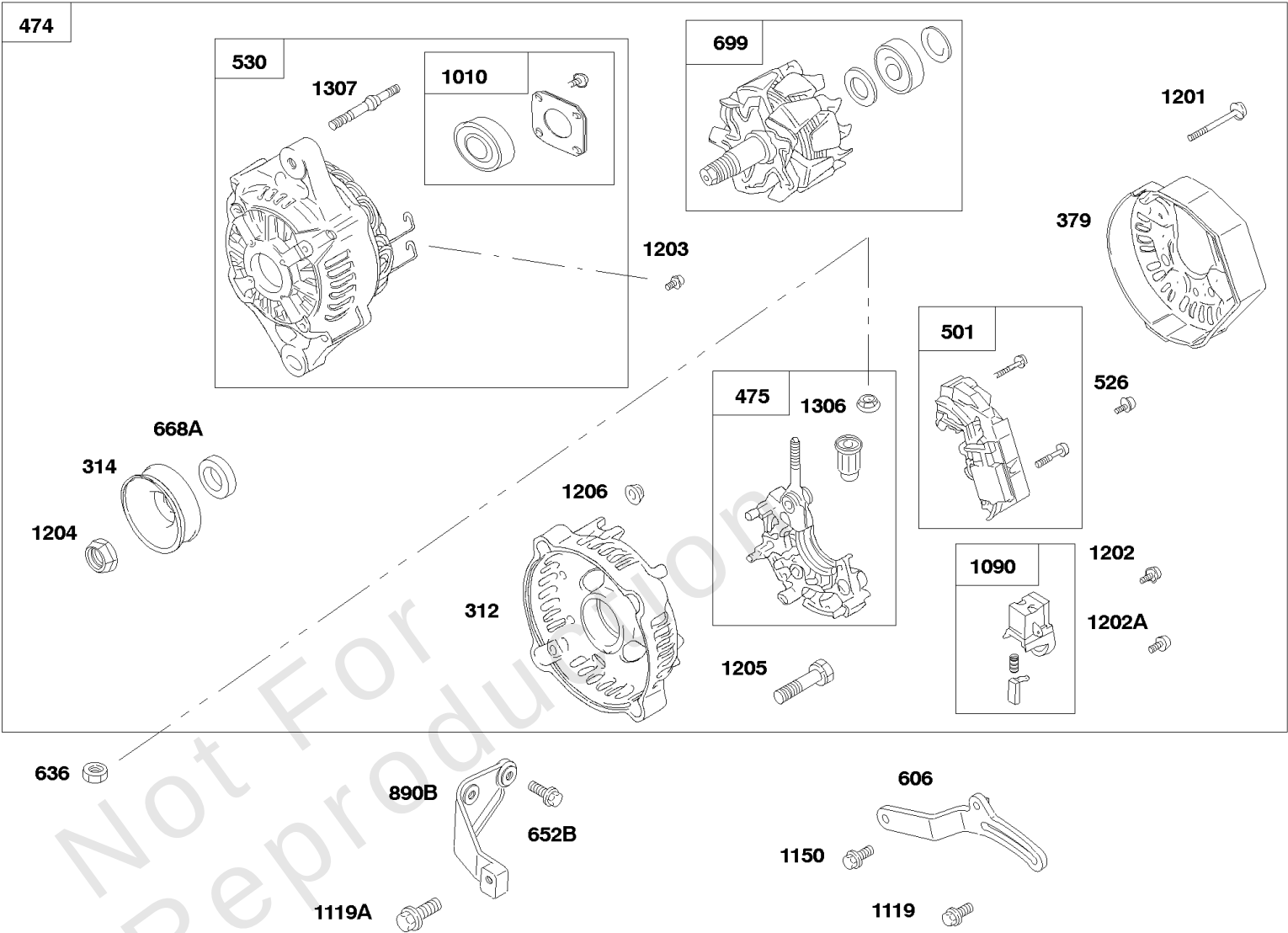


| REF. NO. | PART NO. | DESCRIPTION                                                                                                                    | REF. NO. | PART NO. | DESCRIPTION                                                                                                                  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

## 1.2 KW Starter Motor

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

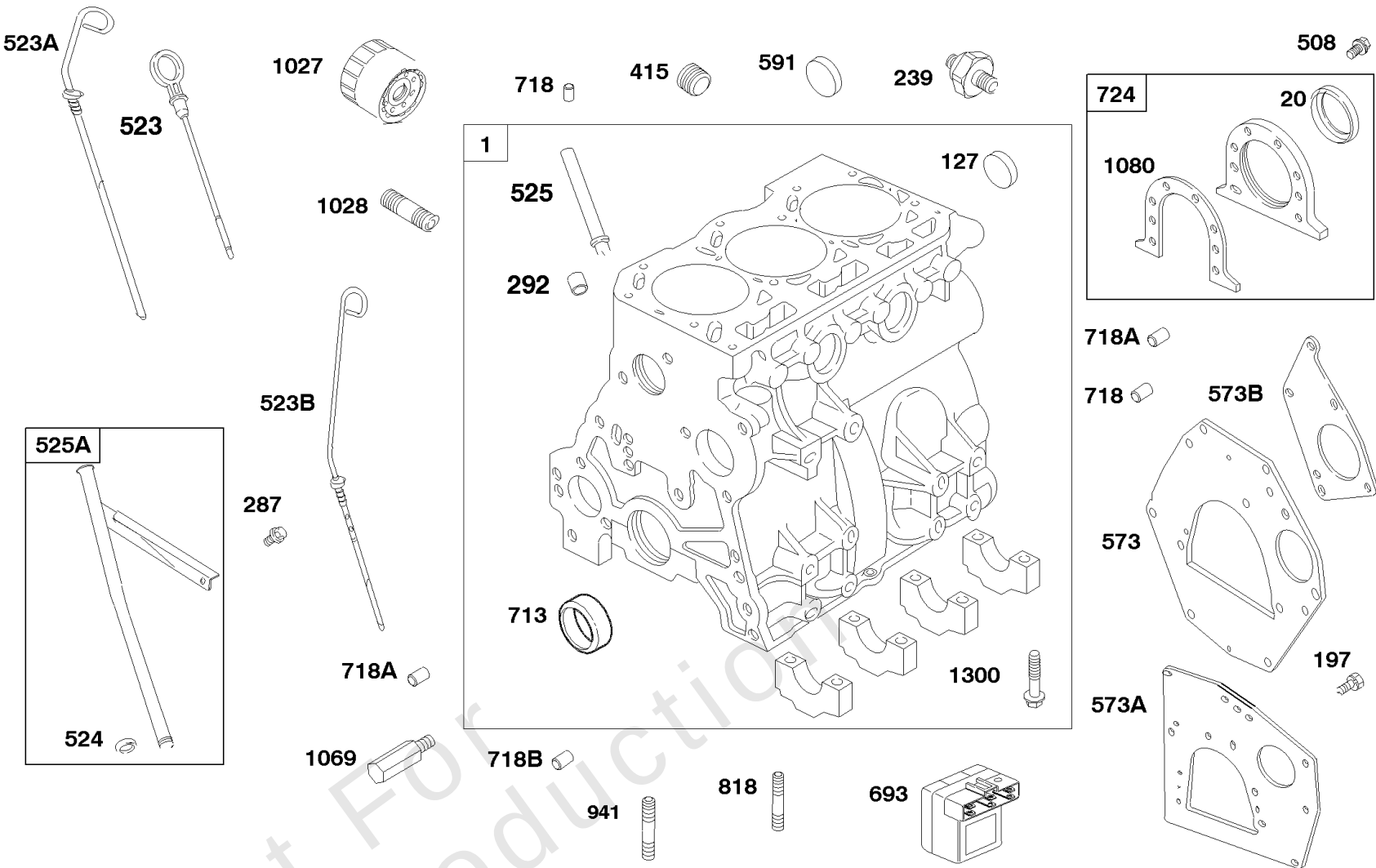
40 AMP



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

**Alternator 40 AMP**

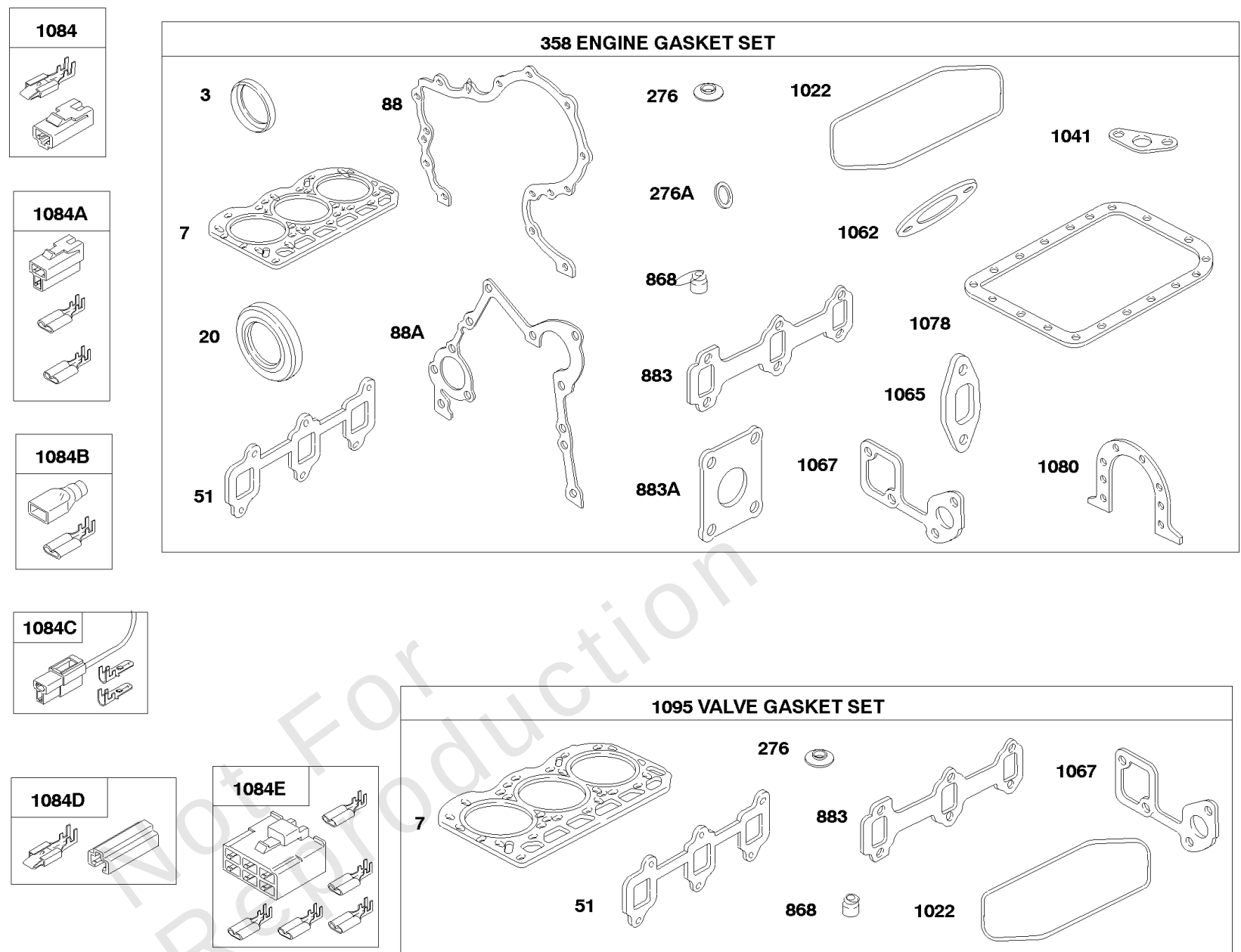
| REF NO | PART NO | QTY | DESCRIPTION                        |
|--------|---------|-----|------------------------------------|
| 312    | 820692  |     | HOUSING, Brush End                 |
| 314    | 820711  |     | PULLEY, Alternator                 |
| 379    | 820703  |     | COVER, Brush                       |
| 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                   |
| 636    | 820069  |     | NUT<br>-(Starting Switch)          |
| 652B   | 820275  |     | SCREW<br>-(Support Bracket)        |
| 668A   | 820713  |     | SPACER<br>-(Alternator)            |
| 699    | 825390  |     | ROTOR ASSEMBLY                     |
| 890B   | 820213  |     | BRACKET, Support                   |
| 1010   | 825384  |     | RETAINER, Bearing<br>-(Alternator) |
| 1090   | 825387  |     | RETAINER, Brush                    |
| 1119   | 820483  |     | SCREW<br>-(Alternator)             |
| 1119A  | 820270  |     | SCREW<br>-(Alternator)             |
| 1150   | 820023  |     | SCREW<br>-(Adjusting Strap)        |
| 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                                                                                                                                   |
|----------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|-----------------------------------------------------------------------|----------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 1        | 825733   | Cylinder Assembly<br>(Used After Code Date 06033100).<br>----- <b>Note</b> -----<br>825593 Cylinder Assembly<br>(Used After Code Date 02053100 and Before Code Date 06040100).<br>825356 Cylinder Assembly<br>(Used Before Code Date 02060100). | 508      | 820031   | Screw<br>(Seal Retainer)                                              | 693      | 821319   | Module-Pre Heat<br>(Used After Code Date 07033100).<br>----- <b>Note</b> -----<br>820373 Module-Pre Heat<br>(Used Before Code Date 07040100). |
| 20       | 821328   | Seal-Oil<br>(PTO Side)                                                                                                                                                                                                                          | 523      | 821158   | Dipstick<br>(Short)                                                   | 713      | 821299   | Bushing-Camshaft                                                                                                                              |
| 127      | 820004   | Plug-Welch<br>(Cylinder)                                                                                                                                                                                                                        | 523A     | 820643   | Dipstick<br>Used on Type No(s).<br>0107, 0108, 0407.                  | 718      | 820063   | Pin-Locating                                                                                                                                  |
| 197      | 820176   | Screw<br>(Back Plate)                                                                                                                                                                                                                           | 523B     | 820572   | Dipstick<br>Used on Type No(s).<br>0106, 0111, 0376,<br>0406, 0476.   | 718A     | 820062   | Pin-Locating                                                                                                                                  |
| 239      | 821135   | Switch-Oil Pressure                                                                                                                                                                                                                             | 524      | 820654   | Seal-Dipstick Tube                                                    | 718B     | 820061   | Pin-Locating                                                                                                                                  |
| 287      | 820273   | Screw<br>(Dipstick Tube)                                                                                                                                                                                                                        | 525      | 820144   | Tube-Dipstick                                                         | 724      | 825731   | Retainer-Seal                                                                                                                                 |
| 292      | 820662   | Collar-Dipstick Tube                                                                                                                                                                                                                            | 525A     | 820666   | Tube-Dipstick                                                         | 818      | 820016   | Stud<br>(Oil Pump Screen)                                                                                                                     |
| 415      | 820375   | Plug<br>(Cylinder)                                                                                                                                                                                                                              | 573      | 820170   | Plate-Back                                                            | 941      | 820017   | Stud<br>(Oil Pan)                                                                                                                             |
|          |          |                                                                                                                                                                                                                                                 | 573A     | 820283   | Plate-Back<br>Used on Type No(s).<br>0107, 0407.                      | 1027     | 820314   | Filter-Oil                                                                                                                                    |
|          |          |                                                                                                                                                                                                                                                 | 573B     | 820147   | Plate-Back<br>Used on Type No(s).<br>0106, 0109, 0111,<br>0314, 0414. | 1028     | 820851   | Adapter-Oil Filter                                                                                                                            |
|          |          |                                                                                                                                                                                                                                                 | 591      | 821069   | Plug-Camshaft                                                         | 1069     | 820102   | Nozzle-Oil                                                                                                                                    |
|          |          |                                                                                                                                                                                                                                                 |          |          |                                                                       | 1080     | 820145   | Gasket-Seal Retainer                                                                                                                          |
|          |          |                                                                                                                                                                                                                                                 |          |          |                                                                       | 1300     | 820042   | Screw<br>(Crankshaft<br>Bearing Cap)                                                                                                          |

## Cylinder, Oil Filter, Dipstick, Back Plate, Oil Seal

| REF NO | PART NO | QTY | DESCRIPTION                                                                            |
|--------|---------|-----|----------------------------------------------------------------------------------------|
| 1      | 825356  |     | CYLINDER ASSEMBLY<br>-Used Before Code Date 02060100                                   |
| 1      | 825593  |     | CYLINDER ASSEMBLY<br>-Used After Code Date 02053100<br>-Used Before Code Date 06040100 |
| 1      | 825733  |     | CYLINDER ASSEMBLY<br>-Used After Code Date 06033100                                    |
| 20     | 821328  |     | 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                                                                  |
| 415    | 820375  |     | PLUG<br>-(Cylinder)                                                                    |
| 508    | 820031  |     | SCREW<br>-(Seal Retainer)                                                              |
| 523    | 821158  |     | DIPSTICK<br>-(Short)                                                                   |
| 524    | 820654  |     | SEAL, O-Ring<br>-(Dipstick Tube)                                                       |
| 525    | 820144  |     | TUBE, Dipstick                                                                         |
| 525A   | 820666  |     | TUBE, Dipstick                                                                         |
| 573B   | 820147  |     | PLATE, Back                                                                            |
| 591    | 821069  |     | PLUG, Camshaft                                                                         |
| 693    | 821319  |     | MODULE, Pre Heat<br>-Used After Code Date 07033100                                     |
| 693    | 820373  |     | MODULE, Pre Heat<br>-Used Before Code Date 07040100                                    |
| 713    | 821299  |     | BUSHING, Camshaft                                                                      |
| 718    | 820063  |     | PIN, Locating                                                                          |
| 718A   | 820062  |     | PIN, Locating                                                                          |
| 718B   | 820061  |     | PIN, Locating                                                                          |
| 724    | 825731  |     | RETAINER, Seal                                                                         |
| 818    | 820016  |     | STUD<br>-(Oil Pump Screen)                                                             |
| 941    | 820017  |     | STUD<br>-(Oil Pan)                                                                     |
| 1027   | 820314  |     | FILTER, Oil                                                                            |
| 1028   | 820851  |     | ADAPTER, Oil Filter                                                                    |
| 1069   | 820102  |     | NOZZLE, Oil                                                                            |
| 1080   | 820145  |     | GASKET, Seal Retainer                                                                  |
| 1300   | 820042  |     | SCREW<br>-(Crankshaft Bearing Cap)                                                     |

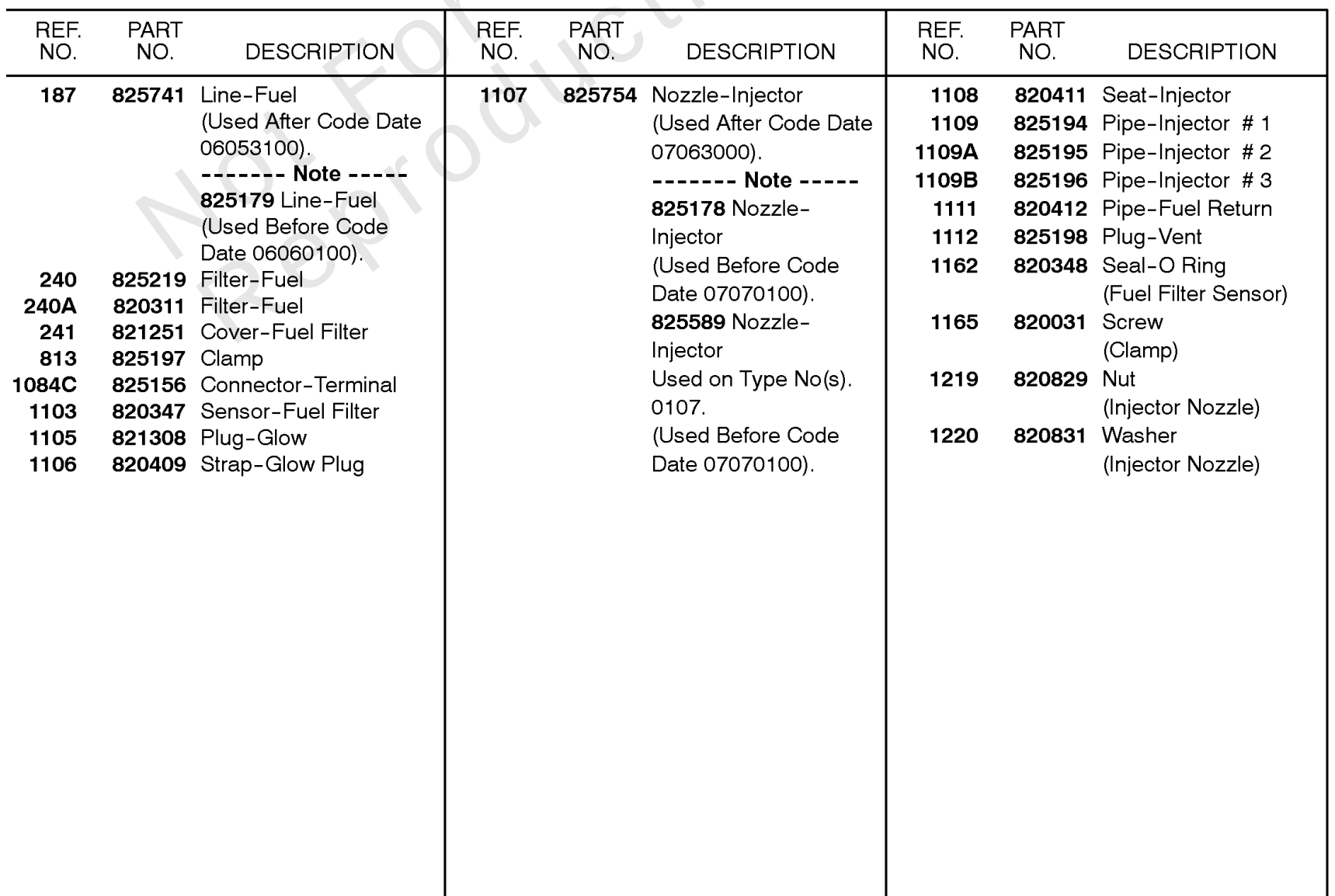


| REF. NO. | PART NO. | DESCRIPTION                        | REF. NO. | PART NO. | DESCRIPTION                          | REF. NO. | PART NO. | DESCRIPTION        |
|----------|----------|------------------------------------|----------|----------|--------------------------------------|----------|----------|--------------------|
| 3        | 821326   | Seal-Oil<br>(Magneto Side)         | 358      | 825315   | Gasket Set-Engine                    | 1084     | 825266   | Connector-Terminal |
| 7        | 820621   | Gasket-Cylinder Head               | 868      | 820405   | Seal-Valve                           | 1084A    | 825157   | Connector-Terminal |
| 20       | 821328   | Seal-Oil<br>(PTO Side)             | 883      | 820817   | Gasket-Exhaust<br>(Exhaust Manifold) | 1084B    | 825160   | Connector-Terminal |
| 51       | 820407   | Gasket-Intake                      | 883A     | 821001   | Gasket-Exhaust<br>(Muffler)          | 1084C    | 825156   | Connector-Terminal |
| 88       | 820377   | Gasket-<br>Gear Reduction Cover    | 1022     | 820150   | Gasket-Rocker Cover                  | 1084D    | 825154   | Connector-Terminal |
| 88A      | 820155   | Gasket-<br>Gear Reduction Cover    | 1041     | 820104   | Gasket-<br>Oil Pump Screen           | 1084E    | 825162   | Connector-Terminal |
| 276      | 820064   | Washer-Sealing<br>(Rocker Cover)   | 1062     | 820093   | Gasket-Outlet                        | 1095     | 825316   | Gasket Set-Valve   |
| 276A     | 820582   | Washer-Sealing<br>(Oil Drain Plug) | 1065     | 820098   | Gasket-Inlet Housing                 |          |          |                    |
|          |          |                                    | 1067     | 820100   | Gasket-Water Pump                    |          |          |                    |
|          |          |                                    | 1078     | 820137   | Gasket-Oil Pan                       |          |          |                    |
|          |          |                                    | 1080     | 820145   | Gasket-Seal Retainer                 |          |          |                    |

## Engine & Valve Gasket Sets, Terminal Connectors

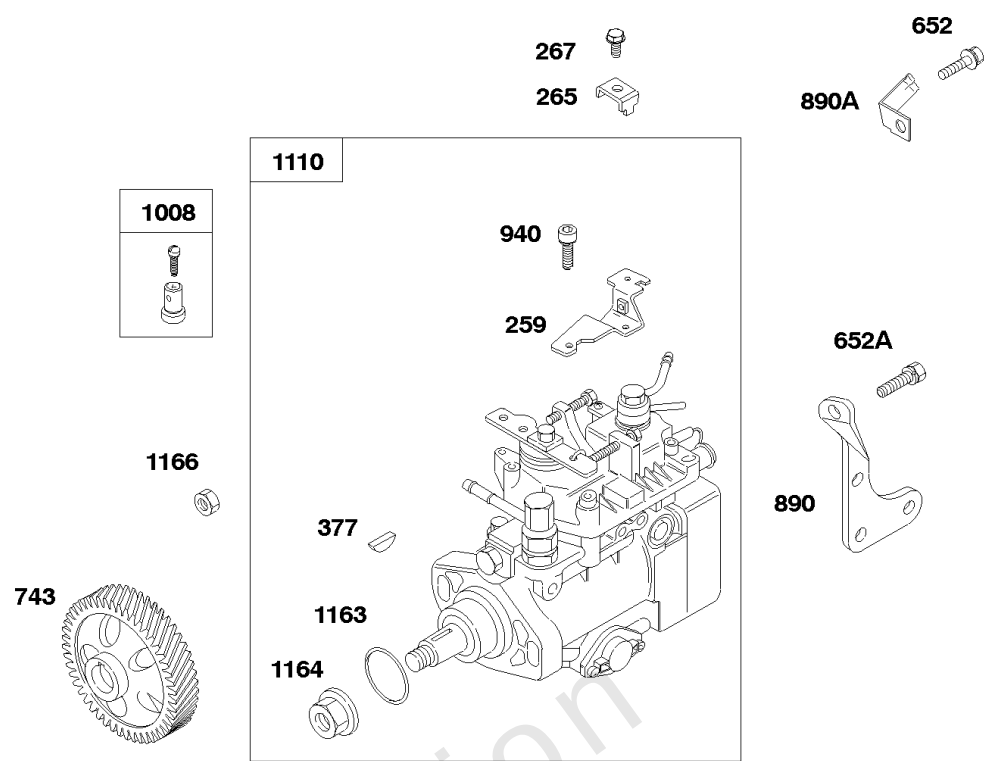
| REF NO | PART NO | QTY | DESCRIPTION                            |
|--------|---------|-----|----------------------------------------|
| 3      | 821326  |     | SEAL, Oil<br>-(Magneto Side)           |
| 7      | 820621  |     | GASKET, Cylinder Head                  |
| 20     | 821328  |     | SEAL, Oil<br>-(PTO Side)               |
| 51     | 820407  |     | GASKET, Intake                         |
| 88     | 820377  |     | GASKET, Gear Cover/Housing             |
| 88A    | 820155  |     | GASKET, Gear Cover/Housing             |
| 276    | 820064  |     | WASHER, Sealing<br>-(Rocker Cover)     |
| 276A   | 820582  |     | WASHER, Sealing<br>-(Oil Drain Plug)   |
| 358    | 825315  |     | GASKET SET, Engine                     |
| 868    | 820405  |     | SEAL, Valve                            |
| 883    | 820817  |     | GASKET, Exhaust<br>-(Exhaust Manifold) |
| 883A   | 821001  |     | GASKET, Exhaust                        |
| 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   | 825266  |     | CONNECTOR, Terminal                    |
| 1084A  | 825157  |     | CONNECTOR-TERMINAL                     |
| 1084C  | 825156  |     | CONNECTOR, Terminal                    |
| 1084D  | 825154  |     | CONNECTOR, Terminal                    |
| 1084B  | 825160  |     | CONNECTOR, Terminal                    |
| 1084E  | 825162  |     | CONNECTOR, Terminal                    |
| 1095   | 825316  |     | GASKET SET, Valve                      |

Mfg. No: 522447-0314-E2



## ***Fuel Filter, Injector Pipes, Glow Plugs***

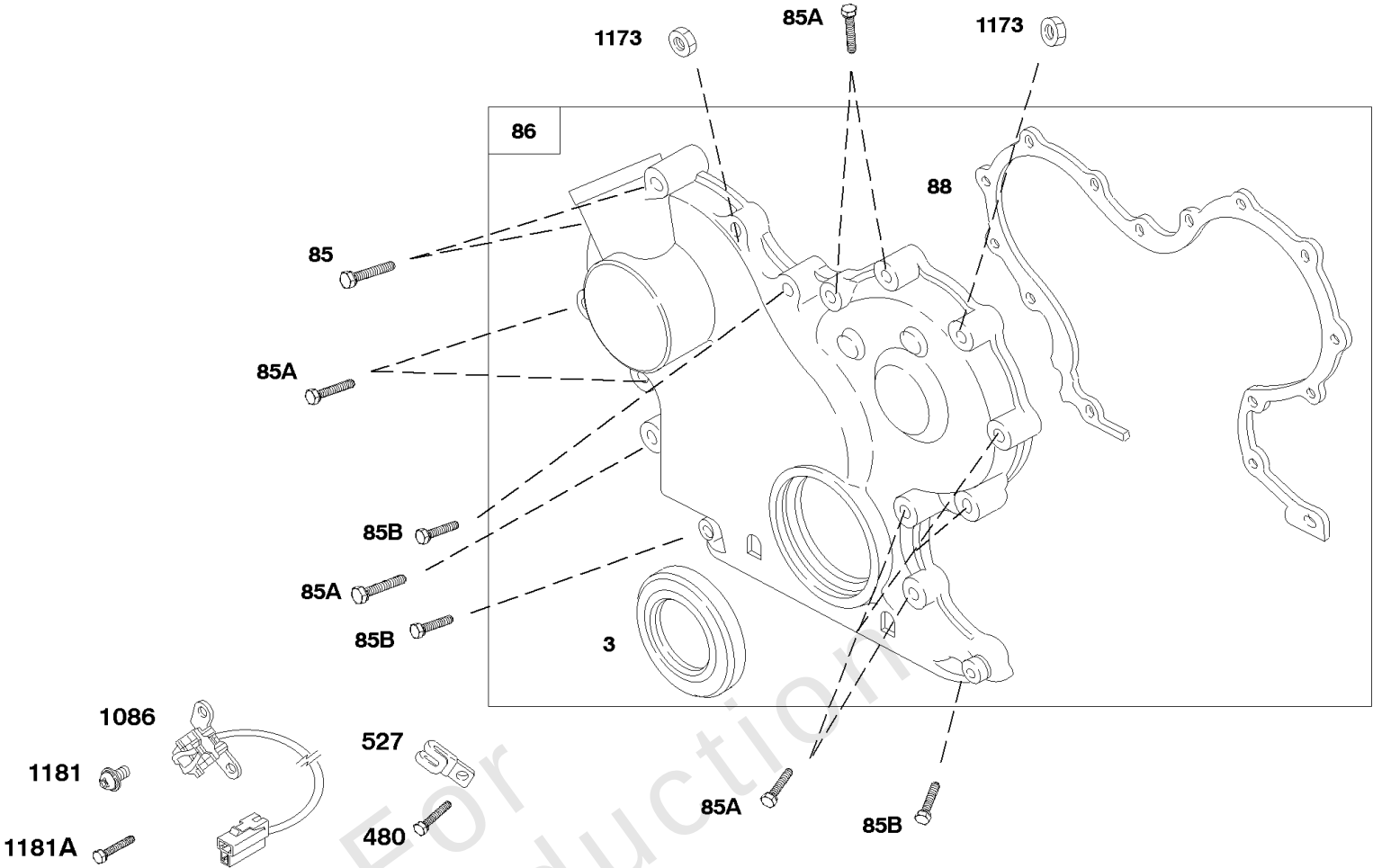
| REF NO | PART NO | QTY | DESCRIPTION                                         |
|--------|---------|-----|-----------------------------------------------------|
| 187    | 825179  |     | LINE, Fuel<br>-Used Before Code Date 06060100       |
| 187    | 825741  |     | LINE, Fuel<br>-Used After Code Date 06053100        |
| 240    | 825219  |     | FILTER, Fuel                                        |
| 240A   | 820311  |     | FILTER, Fuel                                        |
| 241    | 821251  |     | COVER, Fuel Filter                                  |
| 813    | 825197  |     | CLAMP<br>-(Injector Pipe)                           |
| 1084C  | 825156  |     | CONNECTOR, Terminal                                 |
| 1103   | 820347  |     | SENSOR, Fuel Filter                                 |
| 1105   | 821308  |     | PLUG, Glow                                          |
| 1106   | 820409  |     | STRAP, Glow Plug                                    |
| 1107   | 825754  |     | NOZZLE, Injector<br>-Used After Code Date 07063000  |
| 1107   | 825178  |     | NOZZLE, Injector<br>-Used Before Code Date 07070100 |
| 1108   | 820411  |     | SEAT, Injector                                      |
| 1109   | 825194  |     | PIPE, Injector<br>-(Cylinder 1)                     |
| 1109A  | 825195  |     | PIPE, Injector<br>-(Cylinder 2)                     |
| 1109B  | 825196  |     | PIPE, Injector<br>-(Cylinder #3)                    |
| 1111   | 820412  |     | PIPE, Fuel Return                                   |
| 1112   | 825198  |     | PLUG, Vent                                          |
| 1162   | 820348  |     | SEAL, O-Ring<br>-(Fuel Filter Sensor)               |
| 1165   | 820031  |     | SCREW<br>-(Clamp)                                   |
| 1219   | 820829  |     | NUT<br>-(Injector Nozzle)                           |
| 1220   | 820831  |     | WASHER<br>-(Injector Nozzle)                        |



| REF. NO. | PART NO. | DESCRIPTION                           | REF. NO. | PART NO. | DESCRIPTION                                                                                                          | REF. NO. | PART NO. | DESCRIPTION                                                                                  |
|----------|----------|---------------------------------------|----------|----------|----------------------------------------------------------------------------------------------------------------------|----------|----------|----------------------------------------------------------------------------------------------|
| 259      | 820634   | Bracket-Casing Clamp                  | 1110     | 825747   | Pump-Fuel Injection<br>(Used After Code Date 07063000).<br>Used on Type No(s). 0105, 0111, 0112, 0376.               |          |          | 825749 Pump-Fuel Injection<br>(Used After Code Date 07063000).<br>Used on Type No(s). 0107.  |
| 265      | 691024   | Clamp-Casing                          |          |          | ----- Note -----                                                                                                     |          |          | 825326 Pump-Fuel Injection<br>(Used Before Code Date 07070100).<br>Used on Type No(s). 0107. |
| 267      | 820012   | Screw<br>(Casing Clamp)               |          |          | 825324 Pump-Fuel Injection<br>(Used Before Code Date 07070100).<br>Used on Type No(s). 0105, 0108, 0111, 0112, 0376. |          |          |                                                                                              |
| 377      | 821064   | Key-Woodruff<br>(Fuel Injection Pump) |          |          | 825748 Pump-Fuel Injection<br>(Used After Code Date 07063000).<br>Used on Type No(s). 0106, 0314, 0414.              | 1163     | 820414   | Seal-O Ring<br>(Injection Pump Shaft)                                                        |
| 652      | 820593   | Screw<br>(Support Bracket)            |          |          | 825317 Pump-Fuel Injection<br>(Used Before Code Date 07070100).<br>Used on Type No(s). 0106, 0109, 0314, 0414.       | 1164     | 820419   | Nut<br>(Injection Pump Shaft)                                                                |
| 652A     | 820180   | Screw<br>(Support Bracket)            |          |          |                                                                                                                      | 1166     | 820417   | Nut<br>(Injection Pump)                                                                      |
| 743      | 820619   | Gear-Drive                            |          |          |                                                                                                                      |          |          |                                                                                              |
| 890      | 820415   | Bracket-Support                       |          |          |                                                                                                                      |          |          |                                                                                              |
| 890A     | 820479   | Bracket-Support                       |          |          |                                                                                                                      |          |          |                                                                                              |
| 940      | 820640   | Screw<br>(Casing Clamp Bracket)       |          |          |                                                                                                                      |          |          |                                                                                              |
| 1008     | 820467   | Clamp-Swivel                          |          |          |                                                                                                                      |          |          |                                                                                              |

## ***Fuel Injection Pump***

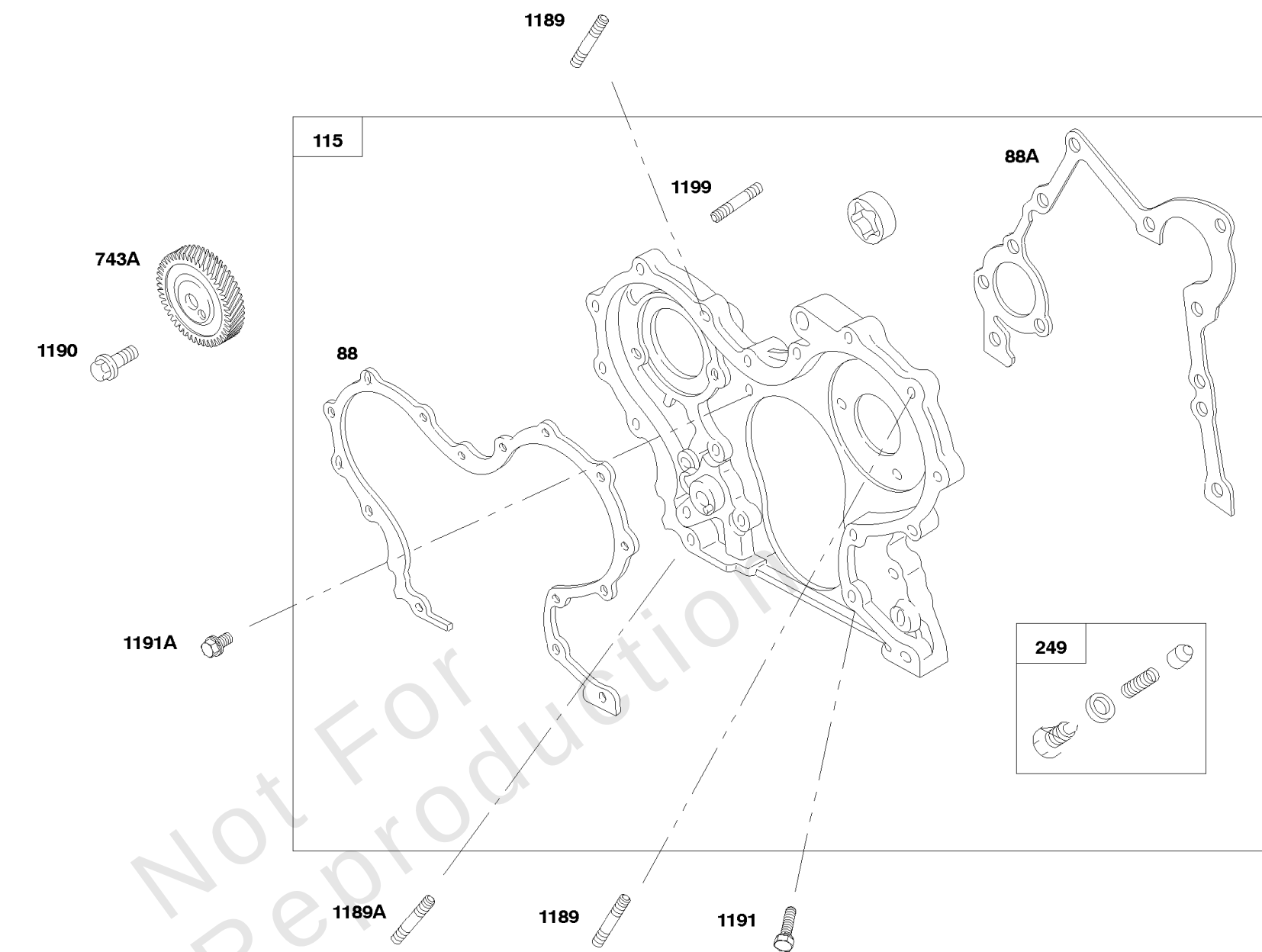
| REF NO | PART NO | QTY | DESCRIPTION                                             |
|--------|---------|-----|---------------------------------------------------------|
| 259    | 820634  |     | BRACKET, Casing Clamp                                   |
| 265    | 691024  |     | CLAMP, Casing                                           |
| 267    | 820012  |     | SCREW<br>-(Casing Clamp)                                |
| 377    | 821064  |     | KEY, Woodruff<br>-(Fuel Injection Pump)                 |
| 652    | 820593  |     | SCREW<br>-(Support Bracket)                             |
| 652A   | 820180  |     | SCREW<br>-(Support Bracket)                             |
| 743    | 820619  |     | GEAR, Drive<br>-(Fuel Injection Pump)                   |
| 890    | 820415  |     | BRACKET, Support                                        |
| 890A   | 820479  |     | BRACKET, Support<br>-(Dipstick)                         |
| 940    | 820640  |     | SCREW<br>-(Casing Clamp Bracket)                        |
| 1008   | 820467  |     | CLAMP, Swivel                                           |
| 1110   | 825748  |     | PUMP, Fuel Injection<br>-Used After Code Date 07063000  |
| 1110   | 825317  |     | PUMP, Fuel Injection<br>-Used Before Code Date 07070100 |
| 1163   | 820414  |     | SEAL, O-Ring<br>-(Injection Pump Shaft)                 |
| 1164   | 820419  |     | NUT<br>-(Injection Pump Shaft)                          |
| 1166   | 820417  |     | NUT<br>-(Injection Pump)                                |



| REF. NO. | PART NO. | DESCRIPTION                                     | REF. NO. | PART NO. | DESCRIPTION                                     | REF. NO. | PART NO. | DESCRIPTION                 |
|----------|----------|-------------------------------------------------|----------|----------|-------------------------------------------------|----------|----------|-----------------------------|
| 3        | 821326   | Seal-Oil<br>(Magneto Side)                      | 85B      | 820027   | Screw<br>(Gear Cover to<br>Gear Reduction Case) | 527      | 820047   | Clamp-Tube                  |
| 85       | 820425   | Screw<br>(Gear Cover to<br>Gear Reduction Case) | 86       | 825758   | Cover-Gear                                      | 1086     | 825009   | Trigger-Ignition            |
| 85A      | 820029   | Screw<br>(Gear Cover to<br>Gear Reduction Case) | 88       | 820377   | Gasket-<br>Gear Reduction Cover                 | 1173     | 820069   | Nut<br>(Gear Cover)         |
|          |          |                                                 | 480      | 820029   | Screw<br>(Tube Clamp)                           | 1181     | 820013   | Screw<br>(Ignition Trigger) |
|          |          |                                                 |          |          |                                                 | 1181A    | 820029   | Screw<br>(Ignition Trigger) |

## ***Gear Cover***

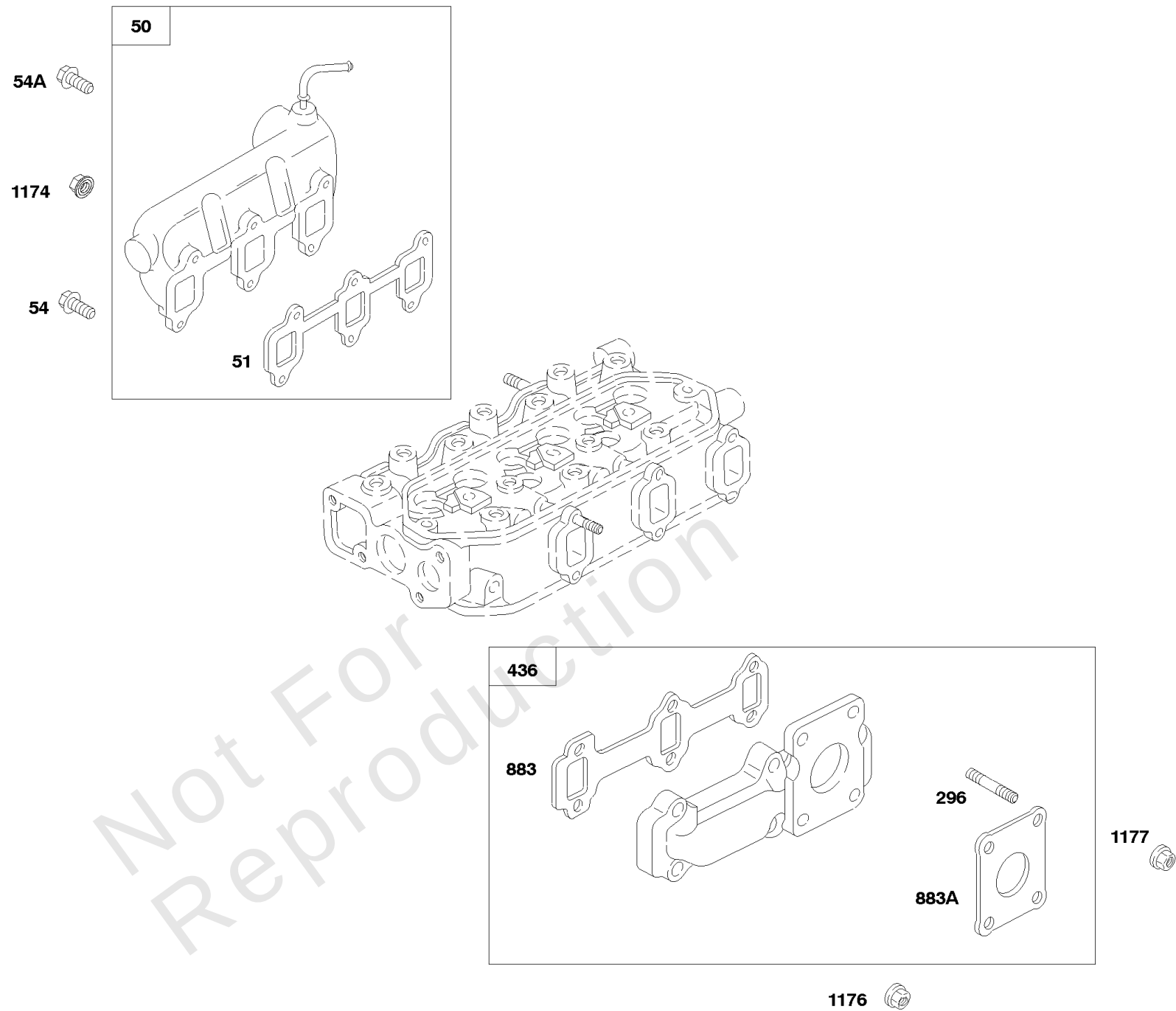
| REF NO | PART NO | QTY | DESCRIPTION                                   |
|--------|---------|-----|-----------------------------------------------|
| 3      | 821326  |     | SEAL, Oil<br>-(Magneto Side)                  |
| 85     | 820425  |     | SCREW<br>-(Gear Cover to Gear Reduction Case) |
| 85A    | 820029  |     | SCREW<br>-(Gear Cover to Gear Reduction Case) |
| 85B    | 820027  |     | SCREW<br>-(Gear Cover to Gear Reduction Case) |
| 86     | 825758  |     | COVER, Timing Gear                            |
| 88     | 820377  |     | GASKET, Gear Cover/Housing                    |
| 480    | 820029  |     | SCREW<br>-(Tube Clamp)                        |
| 527    | 820047  |     | CLAMP, Hose                                   |
| 1086   | 825009  |     | TRIGGER, Ignition                             |
| 1173   | 820069  |     | NUT<br>-(Gear Cover)                          |
| 1181   | 820013  |     | SCREW<br>-(Ignition Trigger)                  |
| 1181A  | 820029  |     | SCREW<br>-(Ignition Trigger)                  |



| REF. NO. | PART NO. | DESCRIPTION                     | REF. NO.         | PART NO. | DESCRIPTION                                                   | REF. NO. | PART NO. | DESCRIPTION              |
|----------|----------|---------------------------------|------------------|----------|---------------------------------------------------------------|----------|----------|--------------------------|
| 88       | 820377   | Gasket-<br>Gear Reduction Cover | 1189             | 820156   | Stud<br>(Gear Housing)                                        | 1191     | 820030   | Screw<br>(Gear Housing)  |
| 88A      | 820155   | Gasket-<br>Gear Reduction Cover | 1189A            | 820016   | Stud<br>(Gear Housing)                                        | 1191A    | 820033   | Screw<br>(Gear Housing)  |
| 115      | 825186   | Housing-Gear                    | 1190             | 820272   | Screw<br>(Drive Gear)<br>(Used After Code Date<br>04083100).  | 1199     | 820426   | Stud<br>(Injection Pump) |
| 249      | 825032   | Valve-Pressure Relief           | ----- Note ----- |          |                                                               |          |          |                          |
| 743A     | 820615   | Gear-Drive<br>(Gear Housing)    |                  | 820182   | Screw<br>(Drive Gear)<br>(Used Before Code<br>Date 04090100). |          |          |                          |

## ***Gear Housing***

| REF NO | PART NO | QTY | DESCRIPTION                                               |
|--------|---------|-----|-----------------------------------------------------------|
| 88     | 820377  |     | GASKET, Gear Cover/Housing                                |
| 88A    | 820155  |     | GASKET, Gear Cover/Housing                                |
| 115    | 825186  |     | HOUSING, Gear                                             |
| 249    | 825032  |     | VALVE, Pressure Relief                                    |
| 743A   | 820615  |     | GEAR, Drive<br>-(Gear Housing)                            |
| 1189   | 820156  |     | STUD<br>-(Gear Housing)                                   |
| 1189A  | 820016  |     | STUD<br>-(Gear Housing)                                   |
| 1190   | 820180  |     | SCREW<br>-(Drive Gear)<br>-Used Before Code Date 04090100 |
| 1190   | 820272  |     | SCREW<br>-(Drive Gear)<br>-Used After Code Date 04083100  |
| 1191   | 820030  |     | SCREW<br>-(Gear Housing)                                  |
| 1191A  | 820033  |     | SCREW<br>-(Gear Housing)                                  |
| 1199   | 820426  |     | STUD<br>-(Injection Pump)                                 |



| REF. NO. | PART NO. | DESCRIPTION             | REF. NO. | PART NO. | DESCRIPTION                       | REF. NO. | PART NO. | DESCRIPTION            |
|----------|----------|-------------------------|----------|----------|-----------------------------------|----------|----------|------------------------|
| 50       | 825175   | Manifold-Intake         | 296      | 820553   | Stud (Muffler)                    | 1174     | 820069   | Nut (Intake Manifold)  |
| 51       | 820407   | Gasket-Intake           | 436      | 825055   | Manifold-Exhaust                  | 1176     | 820010   | Nut (Exhaust Manifold) |
| 54       | 820031   | Screw (Intake Manifold) | 883      | 820817   | Gasket-Exhaust (Exhaust Manifold) | 1177     | 820178   | Nut (Muffler)          |
| 54A      | 820408   | Screw (Intake Manifold) | 883A     | 821001   | Gasket-Exhaust (Muffler)          |          |          |                        |

### *Intake Manifold, Exhaust Manifold*

| REF NO | PART NO | QTY | DESCRIPTION                            |
|--------|---------|-----|----------------------------------------|
| 50     | 825175  |     | MANIFOLD, Intake                       |
| 51     | 820407  |     | GASKET, Intake                         |
| 54     | 820031  |     | SCREW<br>-(Intake Manifold)            |
| 54A    | 820408  |     | SCREW<br>-(Intake Manifold)            |
| 296    | 820553  |     | STUD<br>-(Muffler)                     |
| 436    | 825055  |     | MANIFOLD, Exhaust                      |
| 883    | 820817  |     | GASKET, Exhaust<br>-(Exhaust Manifold) |
| 883A   | 821001  |     | GASKET, Exhaust                        |
| 1174   | 820069  |     | NUT<br>-(Intake Manifold)              |
| 1176   | 820010  |     | NUT<br>-(Exhaust Manifold)             |
| 1177   | 820178  |     | NUT<br>-(Muffler)                      |

1019

VANGUARD

DAIHATSU

DM850D

Manufactured In Japan by Daihatsu

1040

MODEL

TYPE

CODE

1319

1

2

DO NOT OVER FILL

FULL

LOW

F

L

1036

DAIHATSU MOTOR CO., LTD.

TYPE: XXXXXX-X

FAMILY: XXXXX.XXXXXX

APPROVAL NUMBER: XXXXX/XXXX/XXXX/XXXX

XXXXX-X

IMPORTANT ENGINE INFORMATION

EQUIPMENT LABEL  
DAIHATSU MOTOR CO., LTD.

ENGINE FAMILY NAME: XXXXX.XXXXXX  
ADVERTISED POWER: XXX kW/XXXX rpm  
ENGINE TUNEUP SPECIFICATIONS AND ADJUSTMENTS:  
VALVE CLEARANCE (COLD): IN XXXX in. (X.XX mm), EX XXXX in. (X.XX mm)  
LOW IDLE: XXXX rpm, HIGH IDLE: XXXX rpm  
INJECTION TIMING: X.XX mm/TDC  
THIS ENGINE CONFORMS TO XXXX MODEL YEAR U.S. EPA AND CA EMISSION REGS FOR NONROAD COMPRESSION - IGNITION ENGINES. FEL: NMHC+NOx X.X (g/kW h)  
REFER TO OWNER'S MANUAL FOR MAINTENANCE SPECIFICATIONS AND ADJUSTMENTS. THIS ENGINE IS MEETING XXXX EPA AND CA STANDARDS EARLY BY MEETING THE FELs.

FUEL REQUIREMENT: DIESEL  
ENGINE DISPLACEMENT: XXX cc

XXXX

1058 OPERATOR'S MANUAL

1330 REPAIR MANUAL

| REF. NO. | PART NO. | DESCRIPTION | REF. NO. | PART NO. | DESCRIPTION                                                               | REF. NO. | PART NO. | DESCRIPTION                                                                    |
|----------|----------|-------------|----------|----------|---------------------------------------------------------------------------|----------|----------|--------------------------------------------------------------------------------|
| 1019     | 825650   | Kit-Label   | 1036     |          | Label-Emissions<br>(Available from a Briggs & Stratton Authorized Dealer) | 1040     | 820290   | Plate-Trim                                                                     |
|          |          |             |          |          |                                                                           | 1058     | 277110   | Operator's Manual                                                              |
|          |          |             |          |          |                                                                           | 1319     | 821160   | Label-Warning                                                                  |
|          |          |             |          |          |                                                                           | 1330     | MS1055   | Repair Manual<br>(Refer to Repair Manual For Assembly and Torque Requirements) |

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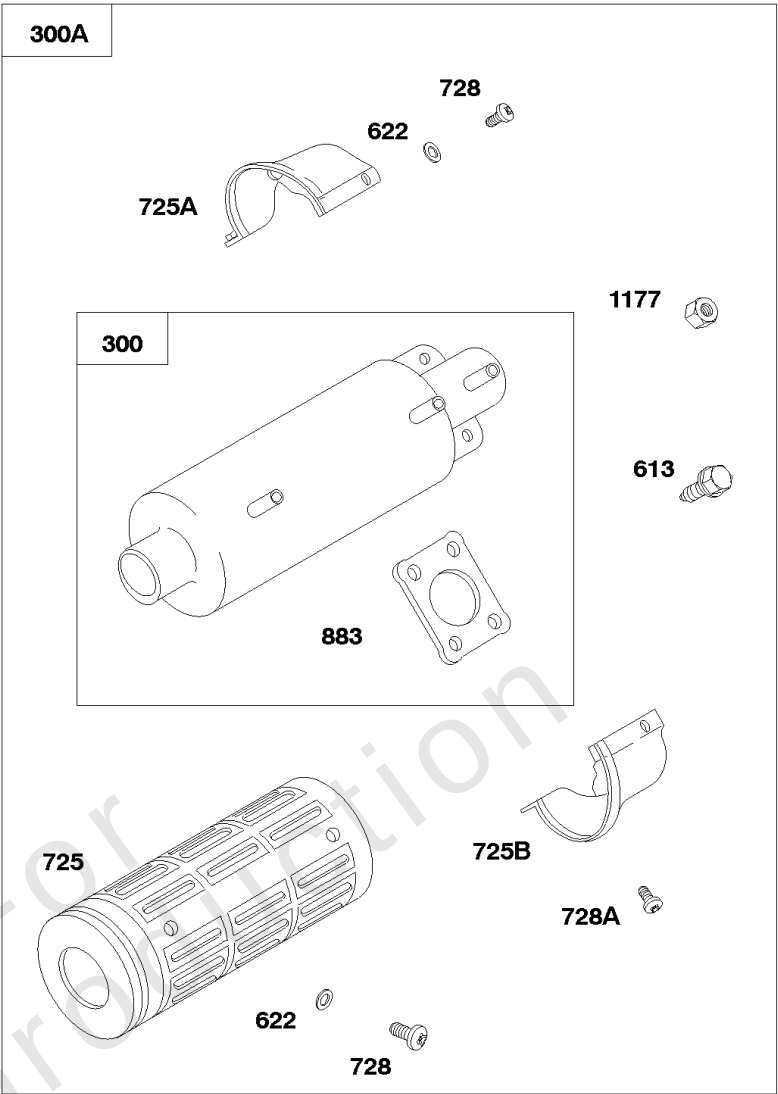
24

22-Jun-2026

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

| REF NO | PART NO   | QTY | DESCRIPTION                                                                |
|--------|-----------|-----|----------------------------------------------------------------------------|
| 1019   | 825650    |     | KIT, Label                                                                 |
| 1036   | -----     |     | Label-Emissions<br>-(Available From A Briggs & Stratton Authorized Dealer) |
| 1040   | 820290    |     | PLATE, Trim                                                                |
| 1058   | 277110TRI |     | MANUAL, Operator's                                                         |
| 1319   | 821160    |     | LABEL, Warning                                                             |
| 1330   | MS1055    |     | MANUAL, Repair                                                             |

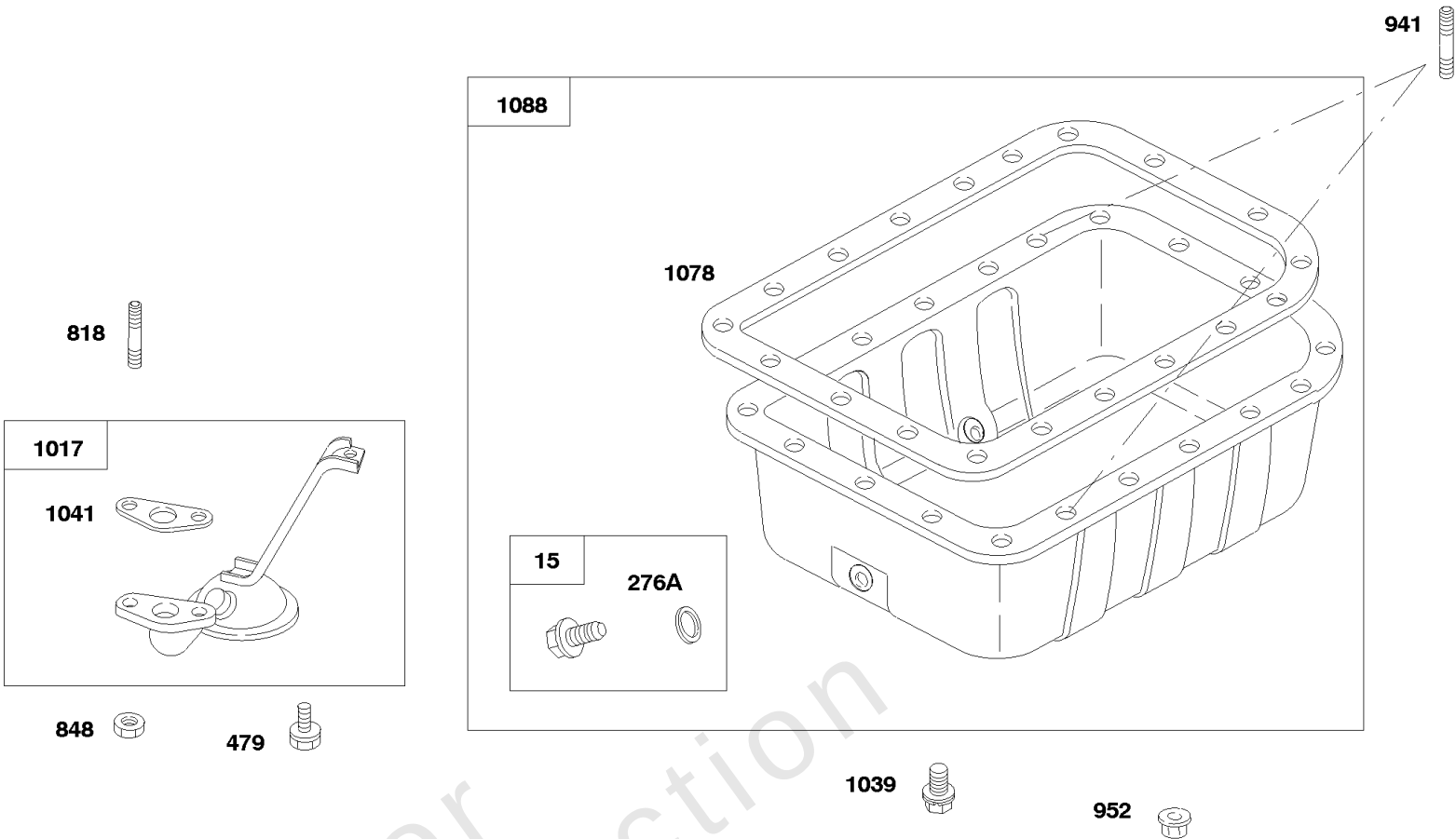
Not For Reproduction



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

## Muffler

| REF NO | PART NO | QTY | DESCRIPTION                            |
|--------|---------|-----|----------------------------------------|
| 264    | 820178  |     | NUT<br>-(Muffler Adapter)              |
| 300    | 825550  |     | MUFFLER                                |
| 300A   | 825200  |     | 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)                |
| 883    | 820817  |     | GASKET, Exhaust<br>-(Exhaust Manifold) |
| 1177   | 820178  |     | NUT<br>-(Muffler)                      |



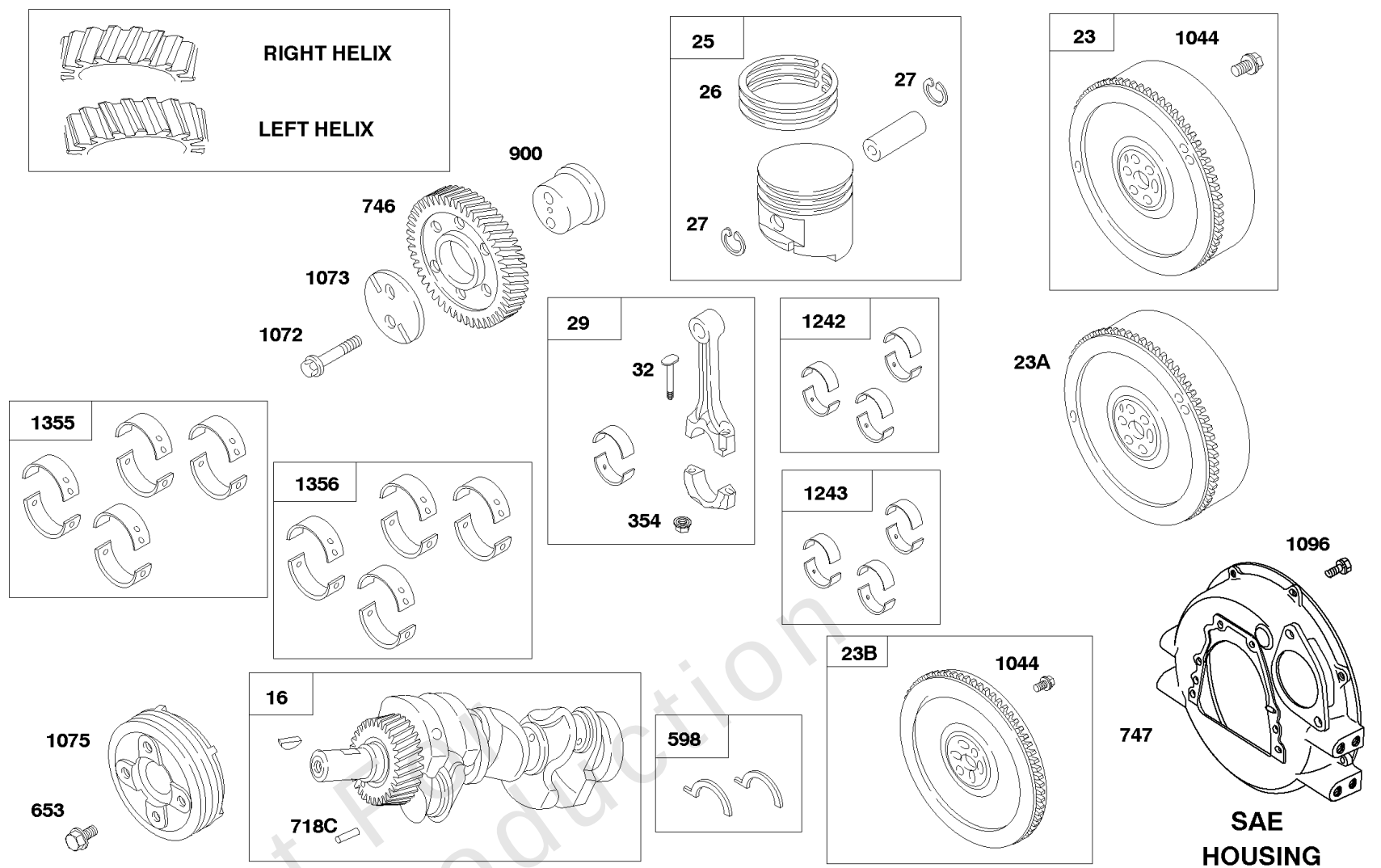
| REF. NO. | PART NO. | DESCRIPTION                        | REF. NO. | PART NO. | DESCRIPTION              | REF. NO. | PART NO. | DESCRIPTION                |
|----------|----------|------------------------------------|----------|----------|--------------------------|----------|----------|----------------------------|
| 15       | 825278   | Plug-Oil Drain                     | 848      | 820069   | Nut<br>(Oil Pump Screen) | 1017     | 825089   | Screen-Oil Pump            |
| 276A     | 820582   | Washer-Sealing<br>(Oil Drain Plug) | 941      | 820017   | Stud<br>(Oil Pan)        | 1039     | 821233   | Screw<br>(Oil Pan)         |
| 479      | 821233   | Screw<br>(Oil Pump Screen)         | 952      | 820068   | Nut<br>(Oil Pan)         | 1041     | 820104   | Gasket-<br>Oil Pump Screen |
| 818      | 820016   | Stud<br>(Oil Pump Screen)          |          |          |                          | 1078     | 820137   | Gasket-Oil Pan             |
|          |          |                                    |          |          |                          | 1088     | 825734   | Pan-Oil<br>(Dual Drain)    |

## Oil Pan

| REF NO | PART NO | QTY | DESCRIPTION                          |
|--------|---------|-----|--------------------------------------|
| 15     | 825278  |     | PLUG, Oil Drain                      |
| 276A   | 820582  |     | WASHER, Sealing<br>-(Oil Drain Plug) |
| 479    | 821233  |     | SCREW<br>-(Oil Pump Screen)          |
| 818    | 820016  |     | STUD<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   | 821233  |     | SCREW<br>-(Oil Pan)                  |
| 1041   | 820104  |     | GASKET, Oil Pump Screen              |
| 1078   | 820137  |     | GASKET, Oil Pan                      |
| 1088   | 825734  |     | PAN, Oil<br>-(Dual Drain)            |

Piston/Rings/Connecting Rod, Flywheel, Crankshaft

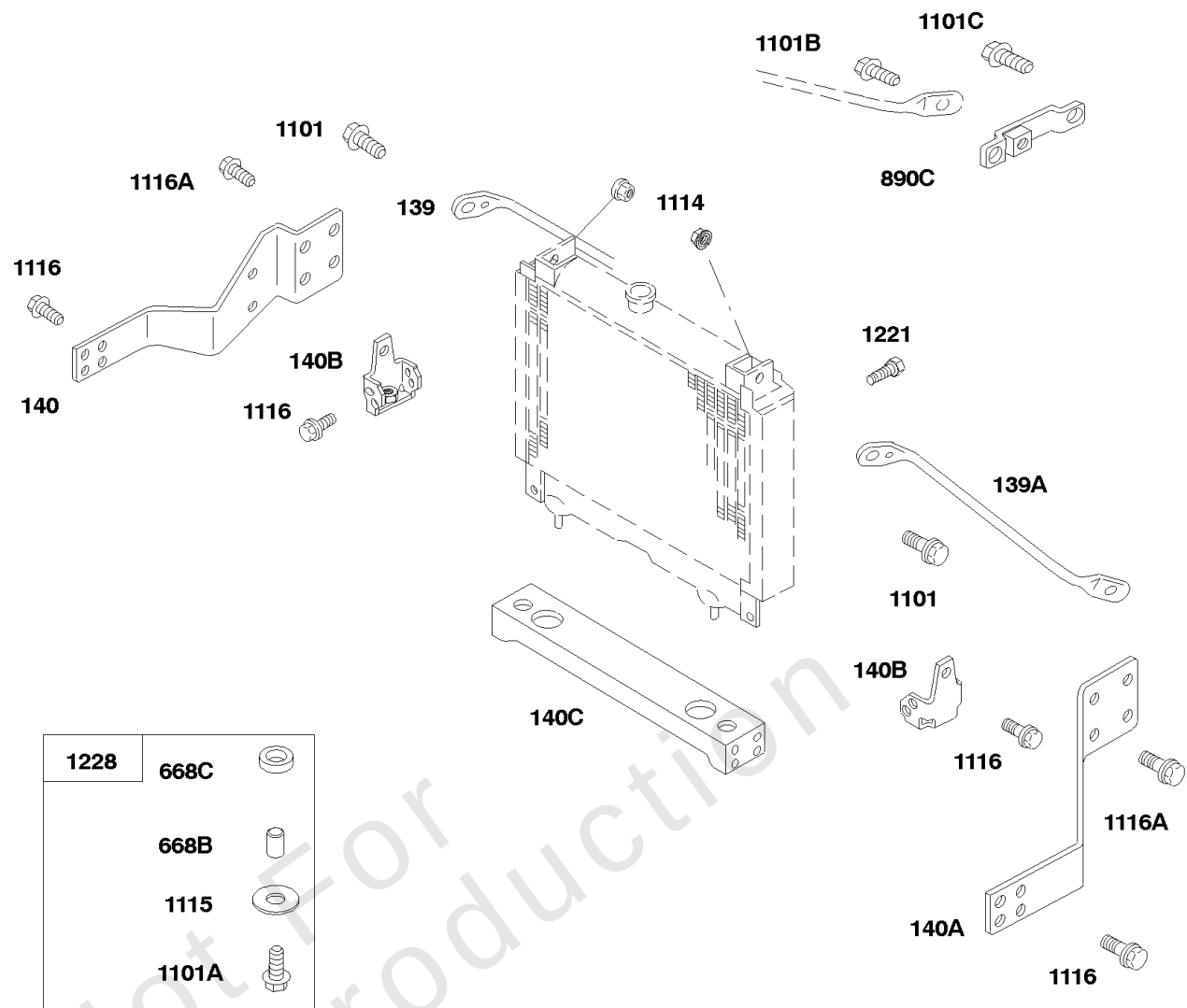
Mfg. No: 522447-0314-E2



| REF. NO. | PART NO. | DESCRIPTION                                 | REF. NO. | PART NO. | DESCRIPTION                                                       | REF. NO. | PART NO. | DESCRIPTION                    |
|----------|----------|---------------------------------------------|----------|----------|-------------------------------------------------------------------|----------|----------|--------------------------------|
| 16       | 825552   | Crankshaft                                  | 598      | 821295   | Shim-Endplay (Crankshaft) (Standard)                              | 747      | 820248   | Housing-Flywheel (SAE)         |
| 23       | 825303   | Flywheel                                    |          |          | ----- Note -----                                                  | 900      | 820116   | Shaft-Gear                     |
| 23A      | 825071   | Flywheel<br>Used on Type No(s). 0478.       |          |          | 821297 Shim-Endplay (Crankshaft) (.005" Oversize)                 | 1044     | 820080   | Screw (Flywheel to Crankshaft) |
| 23B      | 825302   | Flywheel<br>Used on Type No(s). 0106, 0109. | 653      | 821138   | Screw (Crankshaft Pulley)                                         | 1072     | 820081   | Screw (Idle Gear Plate)        |
| 25       | 825311   | Piston Assembly (Standard)                  | 718C     | 820059   | Pin-Locating (Crankshaft)                                         | 1073     | 820117   | Plate-Idle Gear                |
|          |          | ----- Note -----                            | 746      | 820611   | Gear-Idler (Left Helix) (Used After Code Date 98123100).          | 1075     | 820236   | Pulley-Crankshaft              |
|          |          | 825312 Piston Assembly (.010" Oversize)     |          |          | ----- Note -----                                                  | 1096     | 820241   | Screw (Flywheel Housing)       |
| 26       | 825164   | Ring Set (Standard)                         |          |          | 825013 Gear-Idler (Right Helix) (Used Before Code Date 99010100). | 1242     | 825737   | Bearing Set/STD-Rod            |
|          |          | ----- Note -----                            |          |          |                                                                   | 1243     | 825738   | Bearing Set/010-Rod            |
|          |          | 825165 Ring Set (.010" Oversize)            |          |          |                                                                   | 1355     | 821291   | Bearing Set/STD-Main           |
| 27       | 820402   | Lock-Piston Pin                             |          |          |                                                                   | 1356     | 821293   | Bearing Set/010-Main           |
| 29       | 825735   | Rod-Connecting                              |          |          |                                                                   |          |          |                                |
| 32       | 820128   | Screw (Connecting Rod)                      |          |          |                                                                   |          |          |                                |
| 354      | 820073   | Nut (Connecting Rod)                        |          |          |                                                                   |          |          |                                |

## *Piston/Rings/Connecting Rod, Flywheel, Crankshaft*

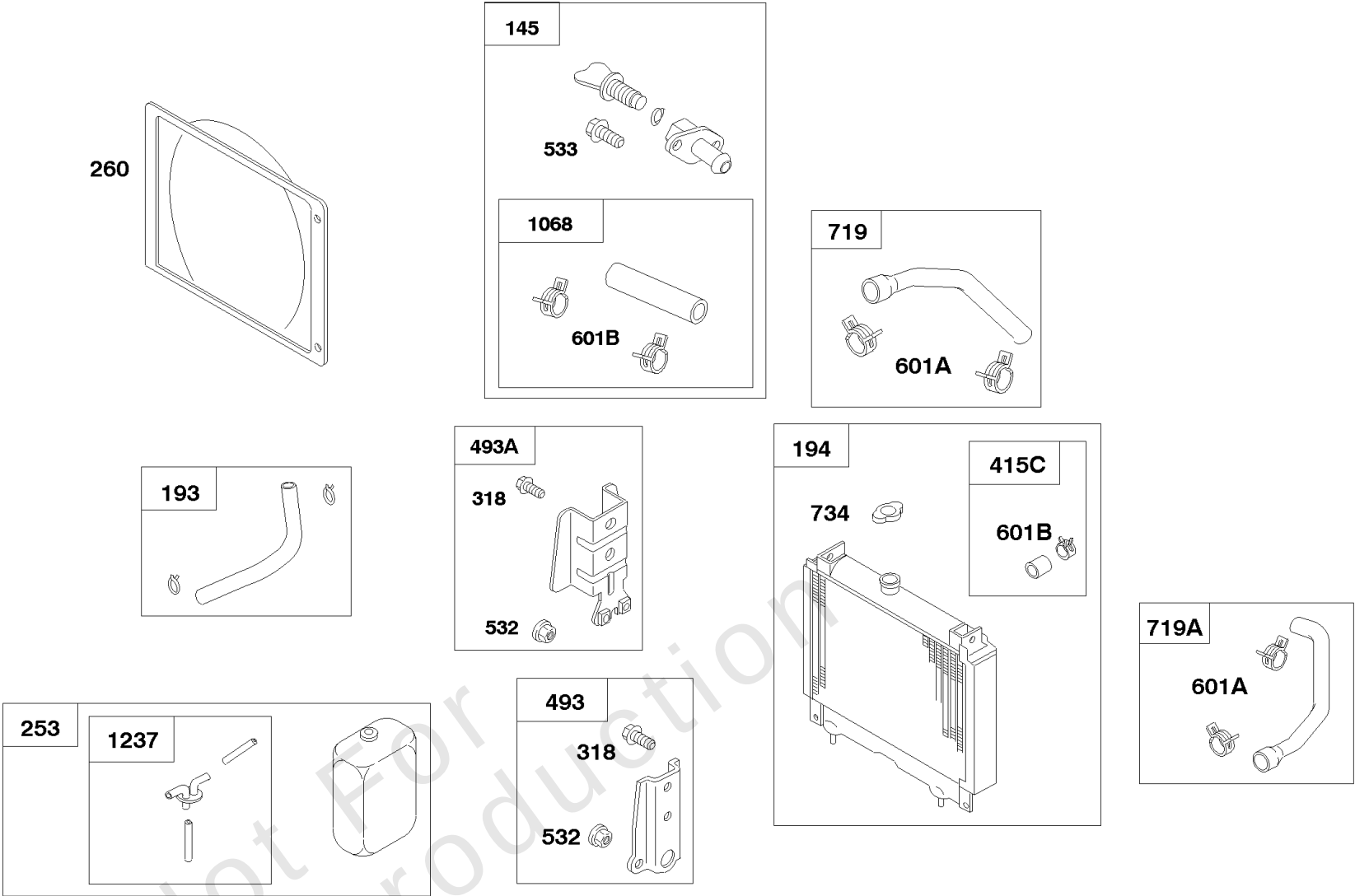
| REF NO | PART NO | QTY | DESCRIPTION                                                         |
|--------|---------|-----|---------------------------------------------------------------------|
| 16     | 825552  |     | CRANKSHAFT                                                          |
| 23     | 825303  |     | FLYWHEEL                                                            |
| 25     | 825312  |     | PISTON ASSEMBLY<br>-(.010 Oversize)                                 |
| 25     | 825311  |     | PISTON ASSEMBLY<br>-(Standard)                                      |
| 26     | 825165  |     | SET, Ring<br>-(.010 Oversize)                                       |
| 26     | 825164  |     | SET, Ring<br>-(Standard)                                            |
| 27     | 820402  |     | LOCK, Piston Pin                                                    |
| 29     | 825735  |     | ROD, Connecting                                                     |
| 32     | 820128  |     | SCREW<br>-(Connecting Rod)                                          |
| 354    | 820073  |     | NUT<br>-(Connecting Rod)                                            |
| 598    | 821297  |     | SHIM, End Play<br>-(Crankshaft or Camshaft Bearing) (.005 Oversize) |
| 598    | 821295  |     | SHIM, End Play<br>-(Crankshaft or Camshaft Bearing) (Standard)      |
| 653    | 820079  |     | SCREW<br>-(Crankshaft Pulley)                                       |
| 718C   | 820059  |     | PIN, Locating<br>-(Crankshaft)                                      |
| 746    | 825013  |     | GEAR, Idler<br>-(Right Helix)<br>-Used Before Code Date 99010100    |
| 746    | 820611  |     | GEAR, Idler<br>-(Left Helix)<br>-Used After Code Date 98123100      |
| 747    | 820248  |     | HOUSING, Flywheel<br>-(SAE)                                         |
| 900    | 820116  |     | SHAFT, Gear                                                         |
| 1044   | 820080  |     | SCREW<br>-(Flywheel) (Flywheel to Crankshaft)                       |
| 1072   | 820081  |     | SCREW<br>-(Idle Gear Plate)                                         |
| 1073   | 820117  |     | PLATE, Idle Gear                                                    |
| 1075   | 820236  |     | PULLEY, Crankshaft                                                  |
| 1096   | 820241  |     | SCREW<br>-(Flywheel Housing)                                        |
| 1242   | 825737  |     | SET, Rod Bearing, Standard                                          |
| 1243   | 825738  |     | SET, Rod Bearing, 010                                               |
| 1355   | 821291  |     | SET, Main Bearing, Standard                                         |
| 1356   | 821293  |     | SET, Main Bearing, 010                                              |



| REF. NO. | PART NO. | DESCRIPTION                   | REF. NO. | PART NO. | DESCRIPTION                | REF. NO.         | PART NO. | DESCRIPTION                                                              |
|----------|----------|-------------------------------|----------|----------|----------------------------|------------------|----------|--------------------------------------------------------------------------|
| 139      | 820617   | Support-Radiator (Right Hand) | 890C     | 820194   | Bracket-Support (Radiator) | 1116             | 820878   | Screw (Radiator Bracket)                                                 |
| 139A     | 820191   | Support-Radiator (Left Hand)  | 1101     | 820272   | Screw (Radiator Support)   | 1116A            | 820024   | Screw (Radiator Bracket) (Used With Engine Mounts Only)                  |
| 140      | 820192   | Bracket-Radiator (Right Hand) | 1101A    | 820309   | Screw (Radiator Support)   | ----- Note ----- |          |                                                                          |
| 140A     | 820193   | Bracket-Radiator (Left Hand)  | 1101B    | 820273   | Screw (Radiator Support)   | 820023           | 820023   | Screw (Radiator Bracket) (Used With Engine Mounts And Radiator Brackets) |
| 140B     | 821039   | Bracket-Radiator              | 1101C    | 820452   | Screw (Radiator Support)   | 1221             | 820865   | Screw (Fan Shroud) (340mm Fan)                                           |
| 140C     | 820255   | Bracket-Radiator (Front)      | 1114     | 820070   | Nut (Radiator Support)     | 1228             | 825135   | Mount-Radiator                                                           |
| 260      | 820863   | Shroud-Fan (340mm)            | 1115     | 820296   | Washer (Radiator Support)  |                  |          |                                                                          |
| 668B     | 820307   | Spacer (Radiator Mount)       |          |          |                            |                  |          |                                                                          |
| 668C     | 820198   | Spacer (Radiator Mount)       |          |          |                            |                  |          |                                                                          |

## ***Radiator Support Brackets***

| REF NO | PART NO | QTY | DESCRIPTION                                                                  |
|--------|---------|-----|------------------------------------------------------------------------------|
| 139    | 820617  |     | SUPPORT, Radiator<br>-(Right Hand)                                           |
| 139A   | 820191  |     | SUPPORT, Radiator<br>-(Left Hand)                                            |
| 140    | 820192  |     | BRACKET, Radiator<br>-(Right Hand)                                           |
| 140A   | 820193  |     | BRACKET, Radiator<br>-(Left Hand)                                            |
| 140B   | 821039  |     | BRACKET, Radiator                                                            |
| 140C   | 820255  |     | BRACKET, Radiator<br>-(Front)                                                |
| 668B   | 820307  |     | SPACER<br>-(Radiator Mount)                                                  |
| 668C   | 820198  |     | SPACER<br>-(Radiator Mount)                                                  |
| 890C   | 820194  |     | BRACKET, Support<br>-(Radiator)                                              |
| 1101   | 820272  |     | SCREW<br>-(Radiator Support)                                                 |
| 1101A  | 820309  |     | SCREW<br>-(Radiator Support)                                                 |
| 1101C  | 820452  |     | SCREW<br>-(Radiator Support)                                                 |
| 1101B  | 820273  |     | SCREW<br>-(Radiator Support)                                                 |
| 1114   | 820070  |     | NUT<br>-(Radiator Support)                                                   |
| 1115   | 820296  |     | WASHER<br>-(Radiator Support)                                                |
| 1116   | 820878  |     | SCREW<br>-(Radiator Bracket)                                                 |
| 1116A  | 820023  |     | SCREW<br>-(Radiator Bracket) (Used With Engine Mounts And Radiator Brackets) |
| 1221   | 820865  |     | SCREW<br>-(Fan Shroud) (340mm)                                               |
| 1228   | 825135  |     | MOUNT, Radiator                                                              |



| REF. NO. | PART NO. | DESCRIPTION                           | REF. NO. | PART NO. | DESCRIPTION                     | REF. NO. | PART NO. | DESCRIPTION         |
|----------|----------|---------------------------------------|----------|----------|---------------------------------|----------|----------|---------------------|
| 145      | 825072   | Valve-Drain                           | 415C     | 825075   | Plug (Radiator)                 | 601A     | 820256   | Clamp-Hose          |
| 193      | 825697   | Hose-Reserve Tank                     |          |          |                                 | 601B     | 820201   | Clamp-Hose          |
| 194      | 825574   | Radiator                              | 493      | 825106   | Bracket-Mounting (Reserve Tank) | 719      | 821351   | Hose-Radiator       |
|          |          | Used on Type No(s). 0376, 0406, 0476. | 493A     | 825314   | Bracket-Mounting (Reserve Tank) | 719A     | 825671   | Hose-Radiator       |
| 253      | 825462   | Tank-Reserve                          | 532      | 820011   | Nut (Mounting Bracket)          | 734      | 820258   | Cap-Radiator        |
| 318      | 821233   | Screw (Mounting Bracket)              | 533      | 821233   | Screw (Drain Valve)             | 1068     | 825696   | Hose/Clamp Assembly |
|          |          |                                       |          |          |                                 | 1237     | 825461   | Cap/Hose-Reserve    |

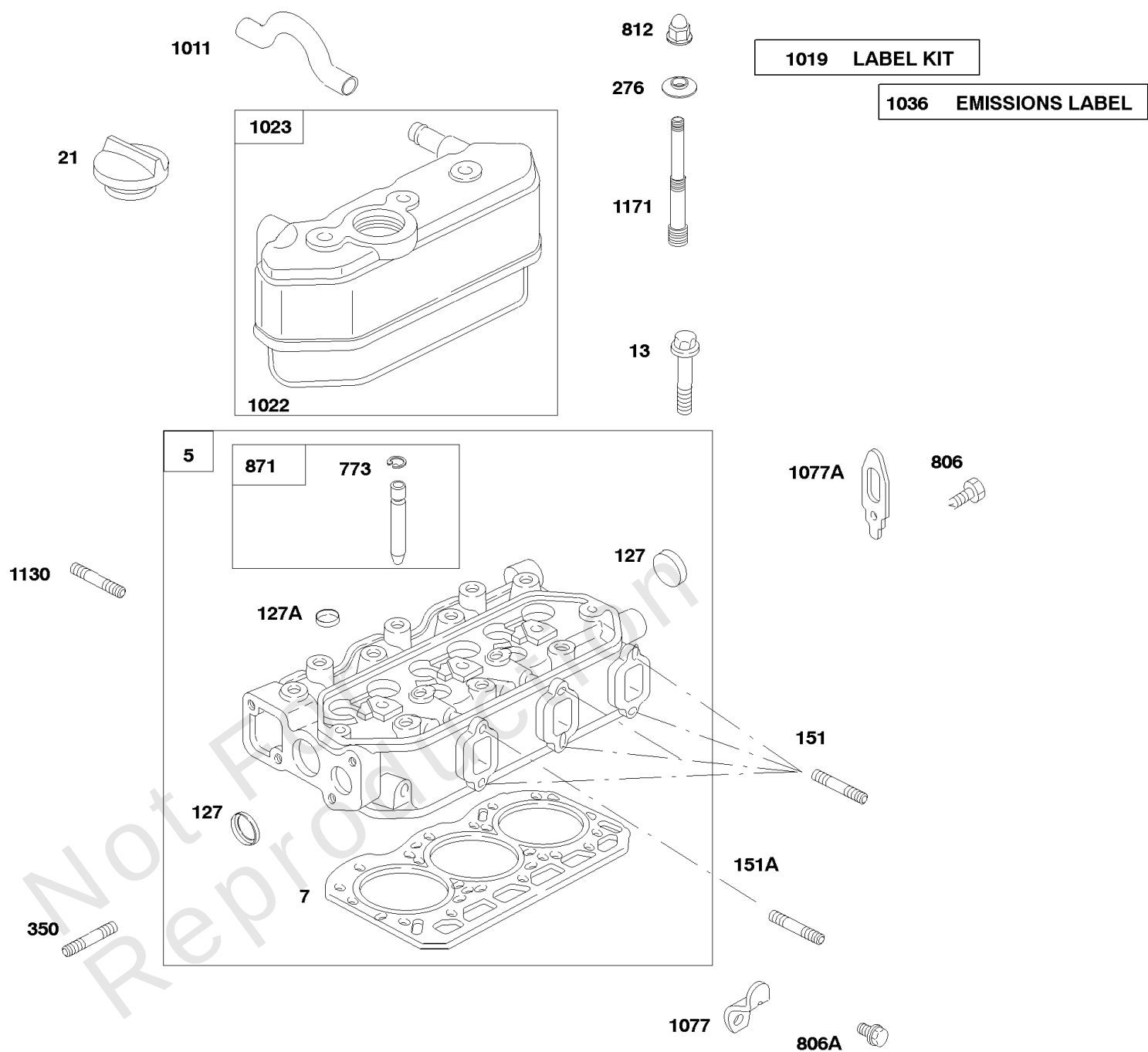
## ***Radiator, Hoses, Mounting Brackets***

| REF NO | PART NO | QTY | DESCRIPTION                          |
|--------|---------|-----|--------------------------------------|
| 145    | 825072  |     | VALVE, Drain                         |
| 193    | 825697  |     | HOSE, Reserve Tank                   |
| 253    | 825462  |     | TANK, Reserve                        |
| 260    | 820863  |     | SHROUD, Fan<br>-(340mm Fan)          |
| 318    | 821233  |     | SCREW<br>-(Mounting Bracket)         |
| 415C   | 825075  |     | PLUG<br>-(Radiator)                  |
| 493    | 825106  |     | BRACKET, Mounting<br>-(Reserve Tank) |
| 493A   | 825314  |     | BRACKET, Mounting<br>-(Reserve Tank) |
| 532    | 820011  |     | NUT<br>-(Mounting Bracket)           |
| 533    | 821233  |     | SCREW<br>-(Drain Valve)              |
| 601A   | 820256  |     | CLAMP, Hose                          |
| 601B   | 820201  |     | CLAMP, Hose                          |
| 719    | 821351  |     | HOSE, Radiator                       |
| 719A   | 825671  |     | HOSE, Radiator                       |
| 734    | 820258  |     | CAP, Radiator                        |
| 1068   | 825696  |     | HOSE/CLAMP ASSEMBLY                  |
| 1237   | 825461  |     | CAP, Reserve Tank                    |

*Replacement Engine - US & Canada*

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

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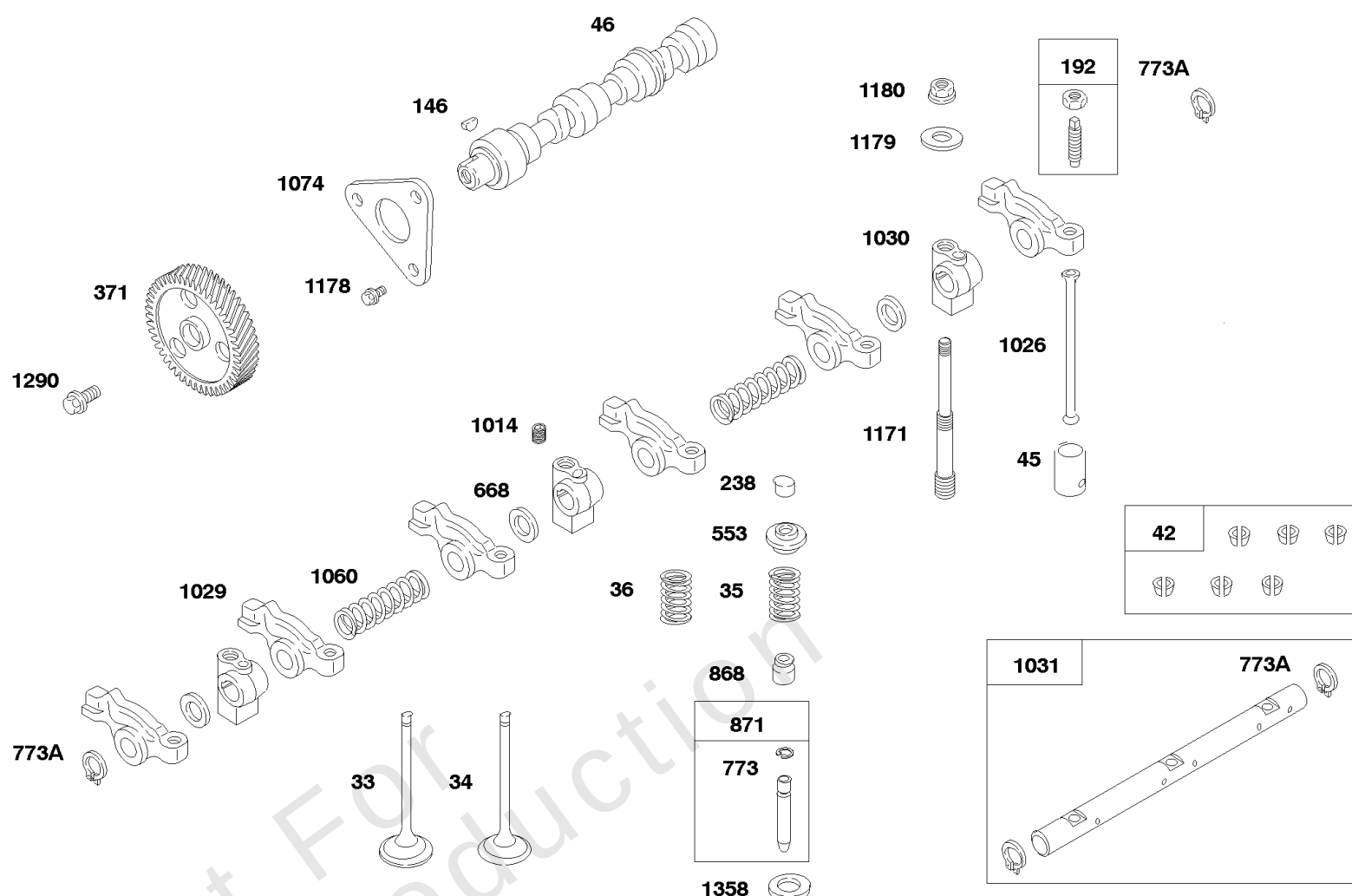
| REF. NO. | PART NO. | DESCRIPTION                      | REF. NO. | PART NO. | DESCRIPTION                                                                                                                                  | REF. NO. | PART NO. | DESCRIPTION                                                                     |
|----------|----------|----------------------------------|----------|----------|----------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|---------------------------------------------------------------------------------|
| 5        | 825692   | Head-Cylinder                    | 806      | 820212   | Screw<br>(Lifting Bracket)                                                                                                                   | 1036     |          | Label-Emissions<br>(Available from a<br>Briggs & Stratton<br>Authorized Dealer) |
| 7        | 820621   | Gasket-Cylinder Head             | 806A     | 820024   | Screw<br>(Lifting Bracket)                                                                                                                   | 1077     | 820260   | Bracket-Lifting                                                                 |
| 13       | 820623   | Screw<br>(Cylinder Head)         | 812      | 820071   | Nut<br>(Rocker Cover)                                                                                                                        | 1077A    | 820254   | Bracket-Lifting                                                                 |
| 21       | 825024   | Cap-Oil Fill                     | 871      | 825030   | Bushing-Valve Guide                                                                                                                          | 1130     | 820015   | Stud<br>(Intake Manifold)                                                       |
| 127      | 820004   | Plug-Welch                       | 1011     | 821003   | Tube-Vent                                                                                                                                    | 1171     | 820076   | Stud<br>(Rocker Cover)                                                          |
| 127A     | 820005   | Plug-Welch                       | 1019     | 825650   | Kit-Label                                                                                                                                    |          |          |                                                                                 |
| 151      | 820014   | Stud<br>(Exhaust Manifold)       | 1022     | 820150   | Gasket-Rocker Cover                                                                                                                          |          |          |                                                                                 |
| 151A     | 820466   | Stud<br>(Exhaust Manifold)       | 1023     | 825672   | Cover-Rocker<br>(Order Reference<br>1019, Label Kit and<br>Reference 1036,<br>Emissions Label<br>for your Model, Type,<br>Trim Package Code) |          |          |                                                                                 |
| 276      | 820064   | Washer-Sealing<br>(Rocker Cover) |          |          |                                                                                                                                              |          |          |                                                                                 |
| 350      | 820078   | Stud<br>(Water Pump)             |          |          |                                                                                                                                              |          |          |                                                                                 |
| 773      | 820130   | Retainer<br>(Water Pump)         |          |          |                                                                                                                                              |          |          |                                                                                 |

## ***Rocker Cover, Cylinder Head***

| REF NO | PART NO | QTY | DESCRIPTION                                                                                                                                   |
|--------|---------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 5      | 825692  |     | HEAD, Cylinder                                                                                                                                |
| 7      | 820621  |     | GASKET, Cylinder Head                                                                                                                         |
| 13     | 820623  |     | SCREW<br>-(Cylinder Head)                                                                                                                     |
| 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)                                                                                                            |
| 350    | 820078  |     | STUD<br>-(Water Pump)                                                                                                                         |
| 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                                                                                                                          |
| 1011   | 821003  |     | TUBE, Vent                                                                                                                                    |
| 1019   | 825650  |     | KIT, Label                                                                                                                                    |
| 1022   | 820150  |     | GASKET, Rocker Cover                                                                                                                          |
| 1023   | 825672  |     | COVER, Rocker<br>-(Order Reference 1019, Label Kit, and Reference 1036, Emissions Label, for<br>your Model, Type, Trim with Engine Date Code) |
| 1036   | -----   |     | Label-Emissions<br>-(Available From A Briggs & Stratton Authorized Dealer)                                                                    |
| 1077   | 820260  |     | BRACKET, Lifting                                                                                                                              |
| 1077A  | 820254  |     | BRACKET, Lifting                                                                                                                              |
| 1130   | 820015  |     | STUD<br>-(Intake Manifold)                                                                                                                    |
| 1171   | 820076  |     | STUD<br>-(Rocker Cover)                                                                                                                       |

## *Valves, Springs, Camshaft, Push Rods*

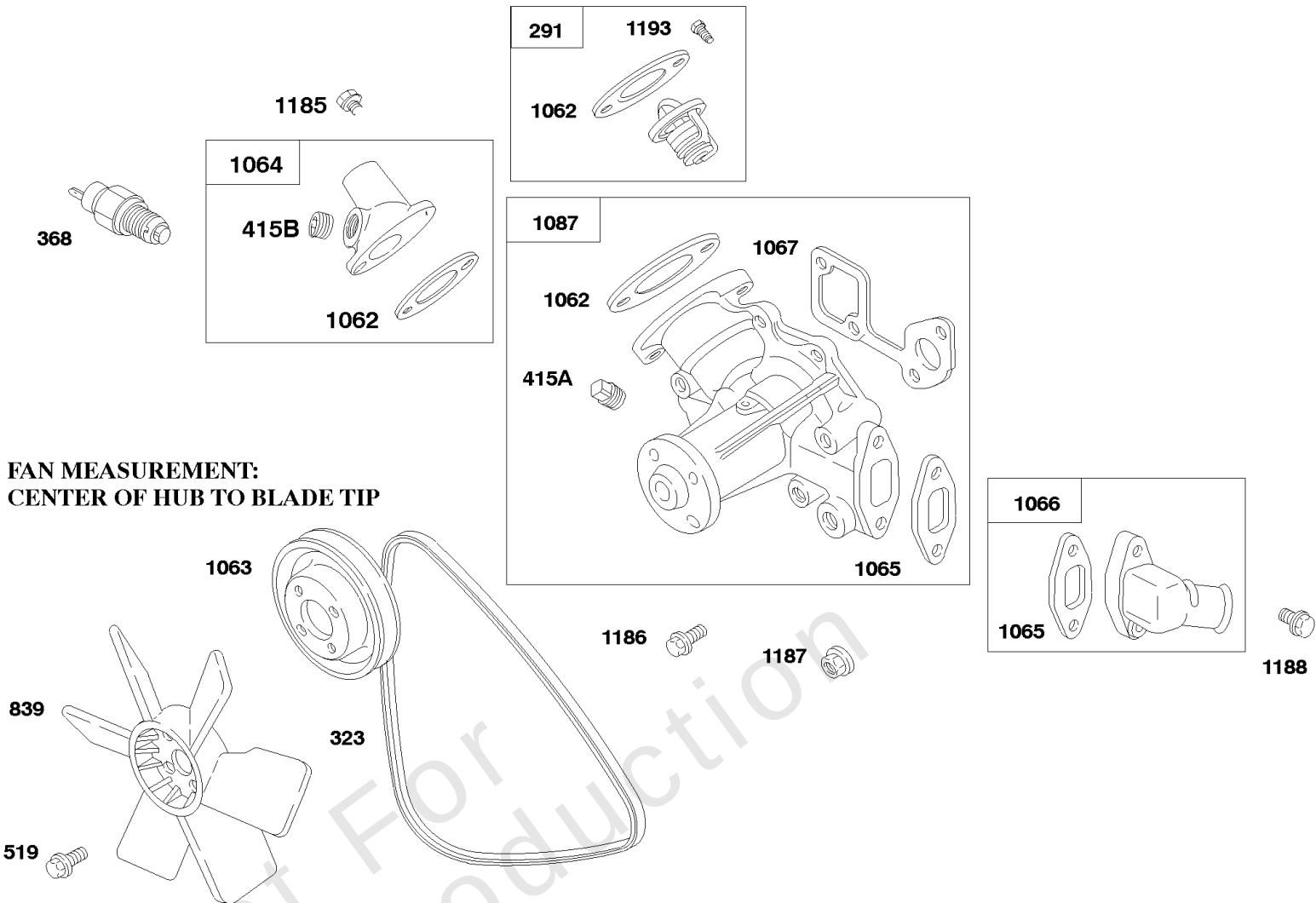
Mfg. No: 522447-0314-E2



| REF.<br>NO. | PART<br>NO. | DESCRIPTION           | REF.<br>NO. | PART<br>NO. | DESCRIPTION           | REF.<br>NO. | PART<br>NO. | DESCRIPTION           |
|-------------|-------------|-----------------------|-------------|-------------|-----------------------|-------------|-------------|-----------------------|
| 33          | 820404      | Valve-Exhaust         | 238         | 821214      | Cap-Valve             | 1026        | 821218      | Rod-Push              |
| 34          | 820403      | Valve-Intake          |             |             | (Used After Code Date |             |             | (Used After Code Date |
| 35          | 820406      | Spring-Valve          |             |             | 04083100).            |             |             | 04083100).            |
|             |             | (Intake)              |             |             | ----- Note -----      |             |             | ----- Note -----      |
| 36          | 820406      | Spring-Valve          |             |             | 820113 Cap-Valve      |             |             | 820422 Rod-Push       |
|             |             | (Exhaust)             |             |             | (Used Before Code     |             |             | (Used Before Code     |
| 42          | 825082      | Keeper-Valve          |             |             | Date 04090100).       |             |             | Date 04090100).       |
| 45          | 820110      | Tappet-Valve          | 371         | 820613      | Gear-Cam              | 1029        | 820387      | Arm-Rocker            |
| 46          | 820388      | Camshaft              | 553         | 820111      | Retainer-Valve Spring | 1030        | 820106      | Support-Rocker Arm    |
| 146         | 691639      | Key-Timing            | 668         | 820065      | Spacer                | 1031        | 825093      | Shaft-Rocker Arm      |
| 192         | 825688      | Adjuster-Rocker Arm   |             |             | (Rocker Arm Shaft)    | 1060        | 820044      | Spring-Rocker Shaft   |
|             |             | (Used After Code Date | 773         | 820130      | Retainer              | 1074        | 820118      | Retainer-Camshaft     |
|             |             | 04083100).            |             |             | (Valve Guide Bushing) | 1171        | 820076      | Stud                  |
|             |             | ----- Note -----      | 773A        | 820003      | Retainer              |             |             | (Rocker Cover)        |
|             |             | 825041 Adjuster-      |             |             | (Rocker Arm Shaft)    | 1178        | 820032      | Screw                 |
|             |             | Rocker Arm            | 868         | 820405      | Seal-Valve            |             |             | (Camshaft Retainer)   |
|             |             | (Used Before Code     | 871         | 825030      | Bushing-Valve Guide   | 1179        | 820177      | Washer                |
|             |             | Date 04090100).       | 1014        | 820105      | Screw                 |             |             | (Rocker Arm Support)  |
|             |             |                       |             |             | (Rocker Arm Support)  | 1180        | 820070      | Nut                   |
|             |             |                       |             |             |                       |             |             | (Rocker Arm Support)  |
|             |             |                       |             |             |                       | 1290        | 820075      | Screw                 |
|             |             |                       |             |             |                       |             |             | (Cam Gear)            |
|             |             |                       |             |             |                       | 1358        | 820112      | Seat-Valve Spring     |

## Valves, Springs, Camshaft, Push Rods

| REF NO | PART NO | QTY | DESCRIPTION                                             |
|--------|---------|-----|---------------------------------------------------------|
| 33     | 820404  |     | VALVE, Exhaust                                          |
| 34     | 820403  |     | 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                                               |
| 553    | 820111  |     | RETAINER, Valve                                         |
| 668    | 820065  |     | SPACER<br>-(Rocker Arm Shaft)                           |
| 773    | 820130  |     | RETAINER<br>-(Valve Guide Bushing)                      |
| 773A   | 820003  |     | RETAINER<br>-(Rocker Arm Shaft)                         |
| 868    | 820405  |     | 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                                      |



| REF. NO. | PART NO.                                    | DESCRIPTION                           | REF. NO.         | PART NO.                              | DESCRIPTION                 | REF. NO.         | PART NO.                        | DESCRIPTION            |
|----------|---------------------------------------------|---------------------------------------|------------------|---------------------------------------|-----------------------------|------------------|---------------------------------|------------------------|
| 291      | 825064                                      | Thermostat                            | 839              | 825454                                | Fan-Radiator (320mm)        | 1065             | 820098                          | Gasket-Inlet Housing   |
| 323      | 821075                                      | Belt-Vee (940mm)                      | ----- Note ----- |                                       |                             | 1066             | 825051                          | Housing-Inlet          |
|          | 820664                                      | Belt-Vee (930mm)                      |                  | 825223                                | Fan-Radiator (290mm)        | 1067             | 820100                          | Gasket-Water Pump      |
|          | Used on Type No(s). 0107, 0314, 0407, 0414. |                                       |                  | 825435                                | Fan-Radiator (280mm)        | 1087             | 825265                          | Pump-Water             |
| 368      | 820208                                      | Switch-Water Temperature (115 Degree) |                  | 825538                                | Fan-Radiator (310mm Pusher) | ----- Note ----- |                                 |                        |
| 415A     | 820182                                      | Plug (Water Pump)                     |                  | Used on Type No(s). 0107, 0407.       |                             |                  | 825432                          | Pump-Water             |
| 415B     | 820052                                      | Plug (Outlet Housing)                 |                  | Used on Type No(s). 0376.             |                             |                  | Used on Type No(s). 0107, 0314. |                        |
| 519      | 821233                                      | Screw (Radiator Fan)                  | 1062             | 820093                                | Gasket-Outlet Housing       | 1185             | 820031                          | Screw (Outlet Housing) |
|          |                                             |                                       | 1063             | 820095                                | Pump-Pulley                 | 1186             | 820022                          | Screw (Water Pump)     |
|          |                                             |                                       | 1064             | 825074                                | Housing-Outlet              | 1187             | 820181                          | Nut (Water Pump)       |
|          |                                             |                                       | ----- Note ----- |                                       |                             | 1188             | 820031                          | Screw (Inlet Housing)  |
|          |                                             |                                       |                  | 825267                                | Housing-Outlet              | 1193             | 820185                          | Screw (Thermostat)     |
|          |                                             |                                       |                  | Used on Type No(s). 0111, 0314, 0414. |                             |                  |                                 |                        |

### ***Water Pump, Radiator Fan***

| REF NO | PART NO | QTY | DESCRIPTION                                |
|--------|---------|-----|--------------------------------------------|
| 291    | 825064  |     | THERMOSTAT                                 |
| 323    | 820664  |     | BELT, Vee<br>-(930mm Length)               |
| 368    | 820208  |     | SWITCH, Water Temperature<br>-(115 Degree) |
| 415A   | 820182  |     | PLUG<br>-(Water Pump)                      |
| 415B   | 820052  |     | PLUG<br>-(Outlet Housing)                  |
| 519    | 821233  |     | SCREW<br>-(Radiator Fan)                   |
| 839    | 825454  |     | FAN, Radiator<br>-(320 mm Fan)             |
| 1062   | 820093  |     | GASKET, Outlet Housing                     |
| 1063   | 820095  |     | PULLEY, Pump                               |
| 1064   | 825267  |     | HOUSING-OUTLET                             |
| 1065   | 820098  |     | GASKET, Inlet Housing                      |
| 1066   | 825051  |     | HOUSING, Inlet                             |
| 1067   | 820100  |     | GASKET, Water Pump                         |
| 1087   | 825432  |     | 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)                     |

