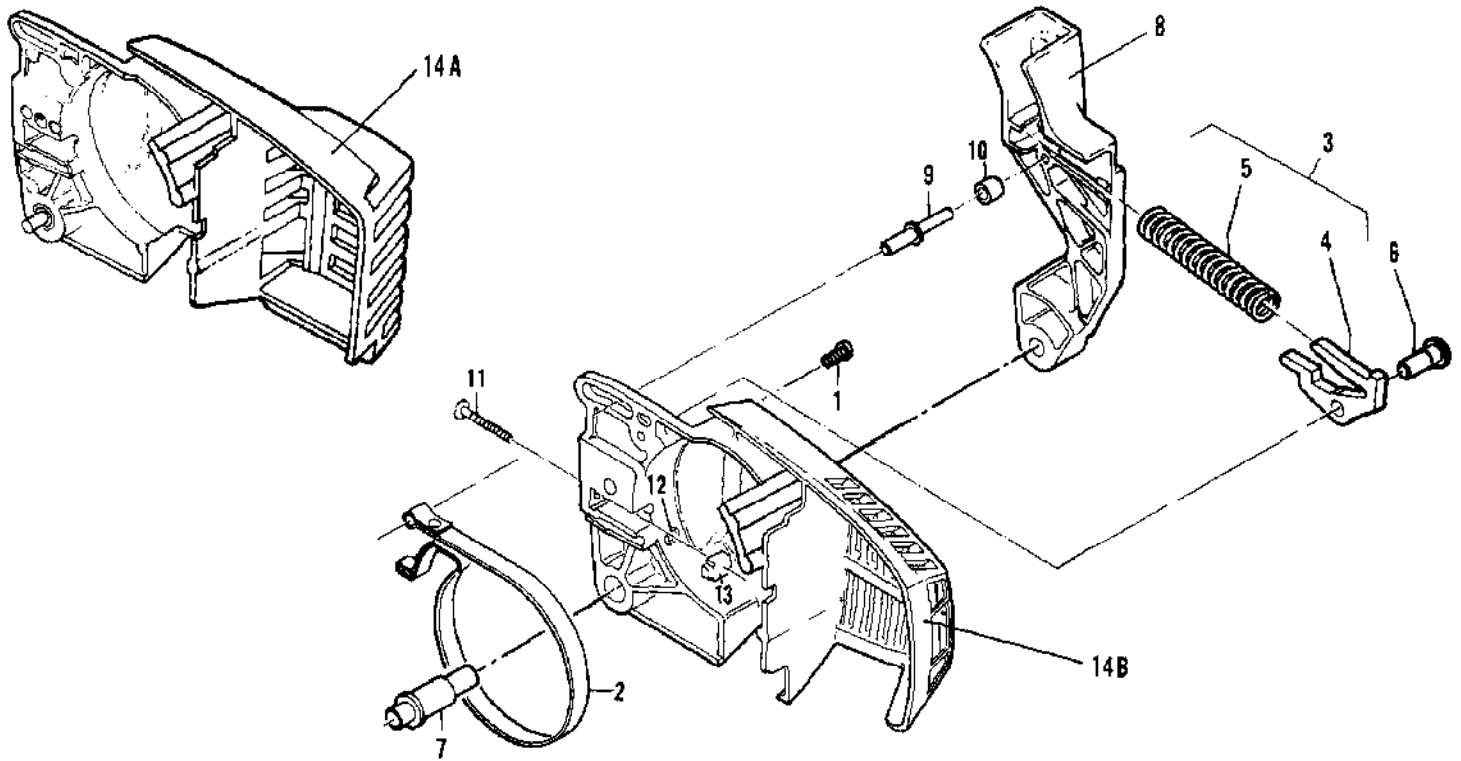
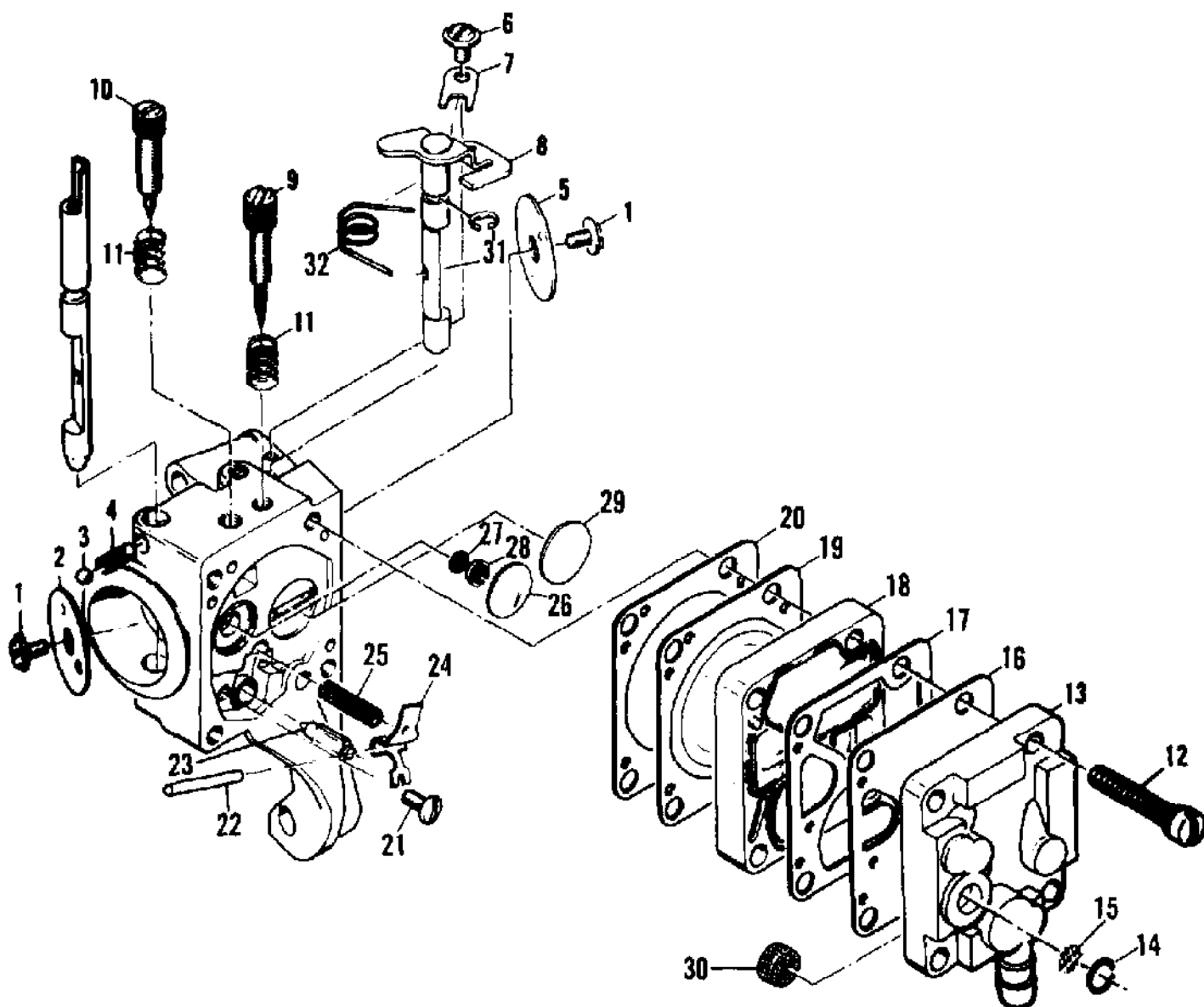
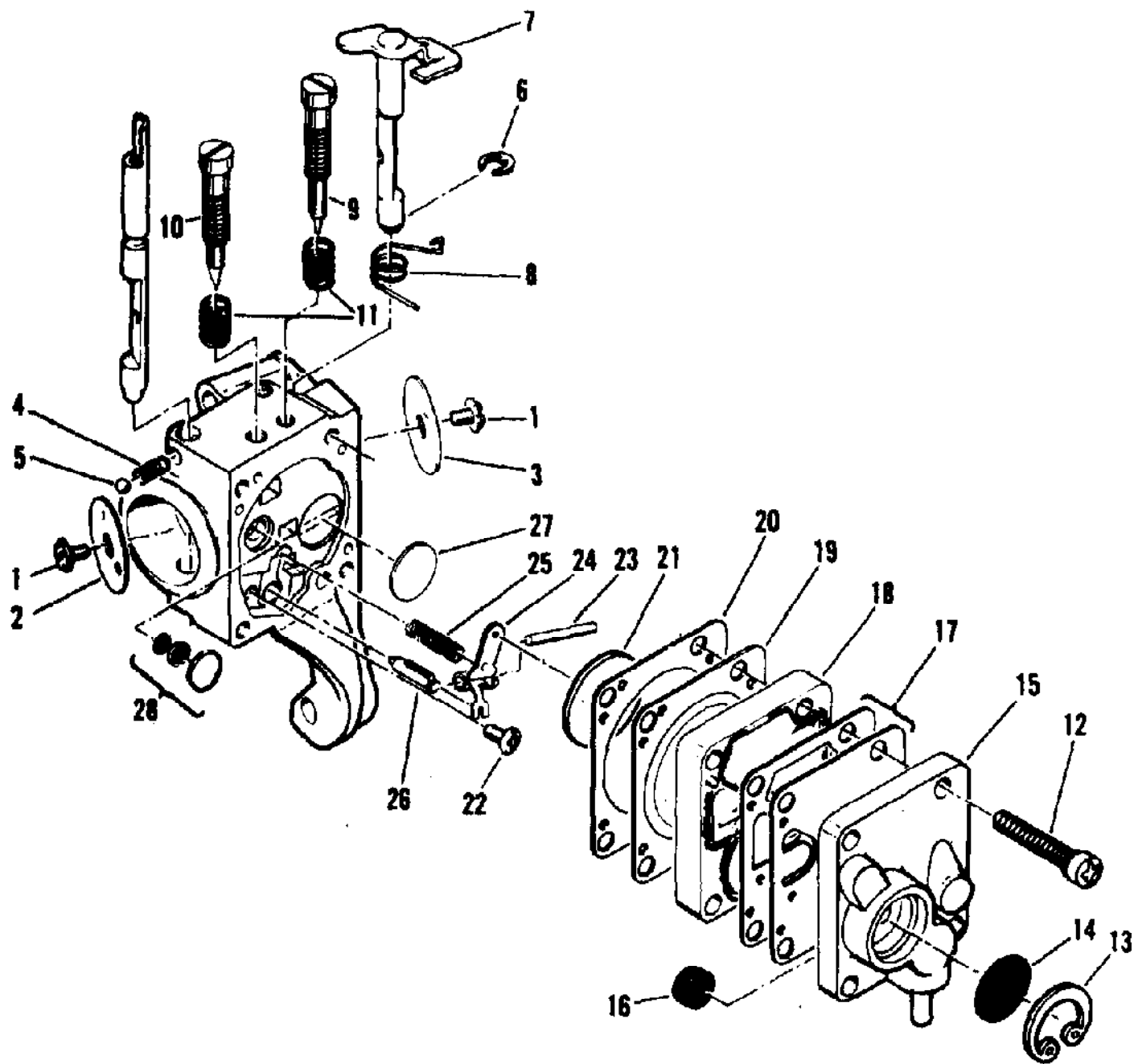




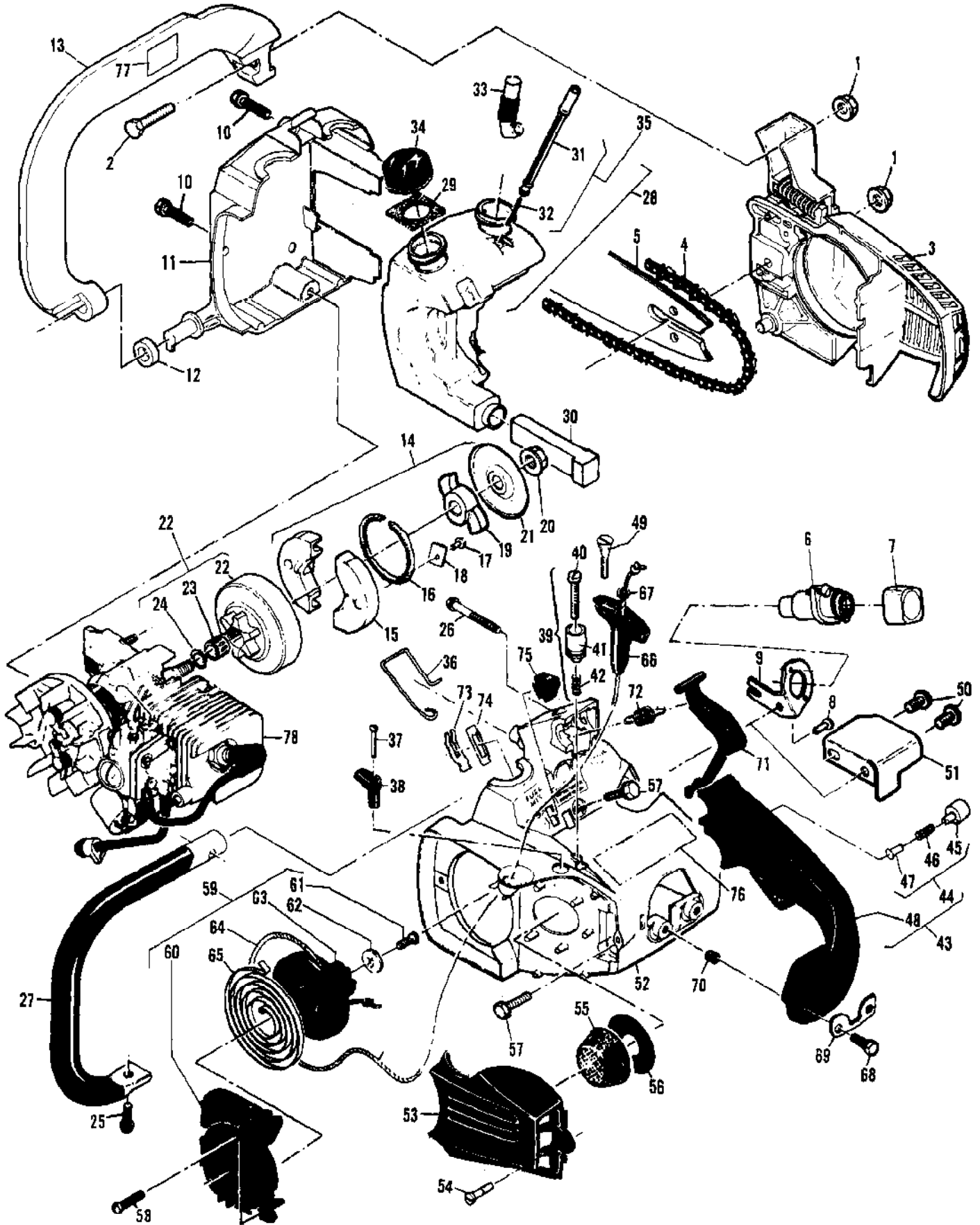
| Ref # | Part Number | Qty | Description                |
|-------|-------------|-----|----------------------------|
| A     | 216551      | 1   | Brake Assembly - Chain     |
| B     | 216416      | 1   | Brake Assembly - Chain     |
| 1     | 111047      | 1   | Screw - Pan Hd 8-32 x .625 |
| 2     | 94709       | 1   | Band - Brake               |
| 3     | 215758      | 1   | Kit - Latch                |
| 4     | 216755      | 1   | Latch                      |
| 5     | 215721      | 1   | Spring - Compression       |
| 6     | 93602       | 1   | Pivot - Latch              |
| 7     | 216549      | 1   | Pivot - Lever              |
| 8     | 92867       | 1   | Lever                      |
| 9     | 213907      | 1   | Pin - Roller               |
| 10    | 214368      | 1   | Bearing - Roller           |
| 11    | 90658       | 1   | Screw - Adjusting          |
| 12    | 110907      | 1   | Ring - Retaining           |
| 13    | 84929       | 1   | Nut - Bar Adjusting        |
| 14A   | 216553      | 1   | Housing - Brake            |
| 14B   | 216414      | 1   | Housing - Brake            |



| Ref # | Part Number | Qty | Description                                             |
|-------|-------------|-----|---------------------------------------------------------|
|       | 214082-02   |     | CARBURETOR ASSY - WALBRO MDC 16                         |
| 1     |             | 2   | SCREW - PLATE Not available separately.                 |
| 2     |             | 1   | PLATE - CHOKE Not available separately.                 |
| 3     |             | 1   | BALL - CHOKE FRICTION Not available separately.         |
| 4     |             | 1   | SPRING - CHOKE FRICTION Not available separately.       |
| 5     |             | 1   | PLATE - THROTTLE Not available separately.              |
| 6     |             | 1   | SCREW - CLIP Not available separately.                  |
| 7     |             | 1   | CLIP - THROTTLE SHAFT Not available separately.         |
| 8     |             | 1   | SHAFT ASSEMBLY - THROTTLE. Not available separately.    |
| 9     |             | 1   | NEEDLE - IDLE Not available separately.                 |
| 10    |             | 1   | NEEDLE - HIGH SPEED Not available separately.           |
| 11    |             | 2   | SPRING - NEEDLE Not available separately.               |
| 12    |             | 4   | SCREW ASSEMBLY - BODY Not available separately.         |
| 13    |             | 1   | COVER ASSEMBLY - PUMP Not available separately.         |
| 14    |             | 1   | RING - VENT SCREEN Not available separately.            |
| 15    |             | 1   | VENT - SCREEN Not available separately.                 |
| 16    |             | 1   | DIAPHRAGM - FUEL PUMP Not available separately.         |
| 17    |             | 1   | GASKET - METERING DIAPHRAGM Not available separately.   |
| 18    |             | 1   | BODY - FUEL PUMP Not available separately.              |
| 19    |             | 1   | DIAPHRAGM ASSEMBLY - METERING Not available separately. |
| 20    |             | 1   | GASKET - FUEL PUMP Not available separately.            |
| 21    |             | 1   | SCREW - METERING LEVER PIN Not available separately.    |
| 22    |             | 1   | PIN - METERING LEVER Not available separately.          |
| 23    |             | 1   | VALVE - INLET NEEDLE Not available separately.          |
| 24    |             | 1   | LEVER - METERING Not available separately.              |
| 25    |             | 1   | SPRING - METERING LEVER Not available separately.       |
| 26    |             | 1   | PLUG - WELCH 7/16 Not available separately.             |
| 27    |             | 1   | SCREEN - INLET Not available separately.                |
| 28    |             | 1   | RING - INLET SCREEN Not available separately.           |
| 29    |             | 1   | PLUG - WELCH 1/2 Not available separately.              |
| 30    |             | 1   | SCREEN Not available separately.                        |
| 31    |             | 1   | RING - RETAINING Not available separately.              |
| 32    |             | 1   | SPRING - THROTTLE RETURN Not available separately.      |
|       | 217084      |     | MAJOR REPAIR KIT                                        |
|       | 216727      |     | MINOR REPAIR KIT                                        |

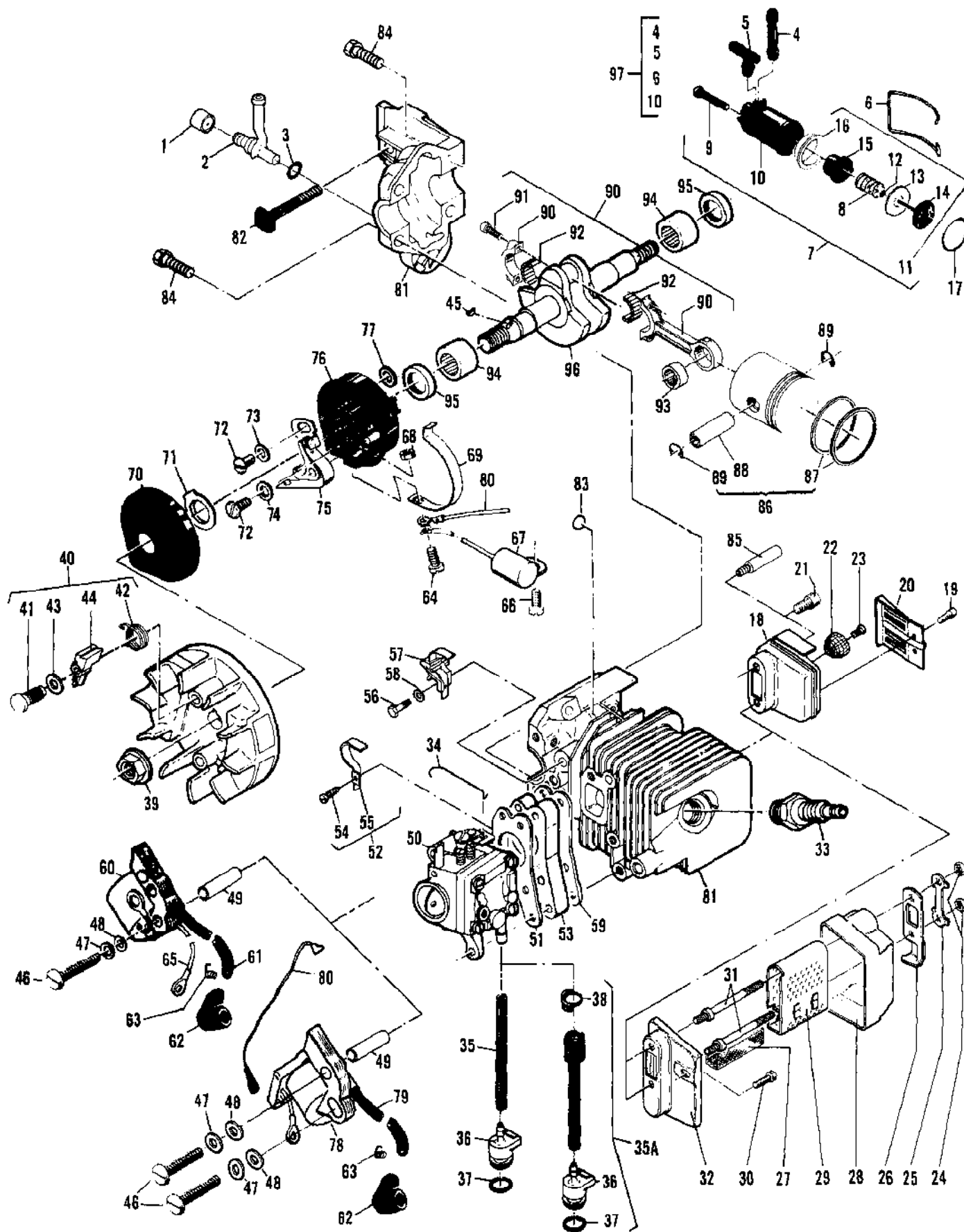


| Ref # | Part Number | Qty | Description                                         |
|-------|-------------|-----|-----------------------------------------------------|
|       | 214082-01   | 1   | Carburetor Assy - Zama M1-M7                        |
| 1     |             | 2   | Screw - Plate Not available separately.             |
| 2     |             | 1   | Valve - Choke Not available separately.             |
| 3     |             | 1   | Valve - Throttle Not available separately.          |
| 4     |             | 1   | Spring - Choke Not available separately.            |
| 5     |             | 1   | Ball - Friction Not available separately.           |
| 6     |             | 1   | "E" Ring Not available separately.                  |
| 7     |             | 1   | Shaft Assembly - Throttle Not available separately. |
| 8     |             | 1   | Spring - Throttle Return Not available separately.  |
| 9     |             | 1   | Screw - Idle Adjustment Not available separately.   |
| 10    |             | 1   | Screw - Main Adjustment Not available separately.   |
| 11    |             | 2   | Spring - Screw Not available separately.            |
| 12    |             | 4   | Screw - Cover Not available separately.             |
| 13    |             | 1   | "C" Ring Not available separately.                  |
| 14    |             | 1   | Strainer Not available separately.                  |
| 15    |             | 1   | Cover - Pump Not available separately.              |
| 16    |             | 1   | Screen Not available separately.                    |
| 17    |             | 1   | Kit - Pump diaphragm Not available separately.      |
| 18    |             | 1   | Body - Pump Not available separately.               |
| 19    |             | 1   | Diaphragm - Main Not available separately.          |
| 20    |             | 1   | Gasket - Main Not available separately.             |
| 21    |             | 1   | Disk Not available separately.                      |
| 22    |             | 1   | Screw Not available separately.                     |
| 23    |             | 1   | Pin - Arm Not available separately.                 |
| 24    |             | 1   | Arm - Needle Valve Not available separately.        |
| 25    |             | 1   | Spring - Arm Not available separately.              |
| 26    |             | 1   | Valve - Needle Not available separately.            |
| 27    |             | 1   | Plug - Welch Not available separately.              |
| 28    |             | 1   | Valve Asy - Main Nozzle Not available separately.   |
|       | 217079      |     | Repair Kit                                          |
|       | 216722      |     | Gasket/Diaphragm Kit                                |
|       | 217086      |     | Needle Kit                                          |



| Ref # | Part Number | Qty | Description                                                                        |
|-------|-------------|-----|------------------------------------------------------------------------------------|
| 1     | 110676      | 2   | Nut - Hex Head 1/4-28 (65 - 75 in. lb. torque)                                     |
| 2     | 110972      | 1   | Screw - Hex 1/4-28 x .75                                                           |
| 3     |             | 1   | Brake Assembly - Chain See "Brake Housing Assemblies" illustration and parts list. |
| 4     |             | 1   | Chain - Saw Not available separately.                                              |
| 5     |             | 1   | Bar - Guide Not available separately.                                              |
| 6     | 218886      | 1   | Grinder Assembly                                                                   |
| 7     | 215447      | 1   | Knob - Auto Sharp                                                                  |
| 8     | 110583      | 2   | Screw - Pn Hd 8-32 x .44 (35 - 40 in. lb. torque)                                  |
| 9     | 215209      | 1   | Bracket - Auto Sharp                                                               |
| 10    | 110639      | 2   | Screw - Hex Hd 12-24 x 1 (55 - 60 in. lb. torque)                                  |
| 11    | 218867      | 1   | Cover - Fuel/Oil Tank                                                              |
| 12    | 93194-01    | 1   | Washer - Rubber                                                                    |
| 13    | 92479       | 1   | Lever/Handguard                                                                    |
| 14    | 213278      | 1   | Kit - Clutch                                                                       |
| 15    | 213276      | 2   | Shoe - Clutch                                                                      |
| 16    | 93608       | 1   | Spring - Assembly                                                                  |
| 17    |             | 2   | Rivet - Flt. 1/8 x .547 Not available separately.                                  |
| 18    |             | 2   | Plate Not available separately.                                                    |
| 19    |             | 1   | Rotor Not available separately.                                                    |
| 20    | 94244       | 1   | Nut - Clutch (160 - 170 in. lb. torque)                                            |
| 21    | 94243       | 1   | Plate - Dust                                                                       |
| 22    | 215252      | 1   | Drum/Sprocket/Bearing Assembly                                                     |
| 23    | 91222       | 1   | Searing - Needle                                                                   |
| 24    | 215259      | 1   | Spacer - Drum                                                                      |
| 25    | 110953      | 1   | Screw - Hx Hd 12-24 x .625 (70 - 80 in. lb. torque)                                |
| 26    | 110686      | 1   | Screw - Hx Hd 13-16 x 2 (35 - 45 in. lb. torque)                                   |
| 27    | 214505      | 1   | Frame/Grip Assembly                                                                |
| 28    | 217761      | 1   | Kit - Fuel/Oil Tank                                                                |
| 29    | 91148       | 1   | Seal - Fuel Vent                                                                   |
| 30    | 84956       | 1   | Pickup - Fuel                                                                      |
| 31    | 217755      | 1   | Piston - Manual Oiler                                                              |
| 32    | 83946       | 1   | Spring - Piston                                                                    |
| 33    | 85557       | 1   | Body - Oiler                                                                       |
| 34    | 216668      | 2   | Cap - Fuel/Oil                                                                     |
| 35    | 217762      | 1   | Rod/Oiler Asy                                                                      |
| 36    | 217759      | 1   | Rod - Manual Oiler                                                                 |
| 31    | 217755      | 1   | Piston - Manual Oiler                                                              |
| 32    | 83946       | 1   | Spring - Piston                                                                    |
| 37    | 110672      | 1   | Screw - Oval Hd 4-40 x 1                                                           |
| 38    | 83870       |     | Knob - Choke                                                                       |
| 39    | 93437       | 1   | Latch Assembly - Throttle                                                          |
| 40    | 216440      | 1   | Screw - Throttle Lock                                                              |
| 41    |             | 1   | Latch - Throttle Not available separately.                                         |
| 42    |             | 1   | Spring - Compression Not available separately.                                     |
| 43    | 218130      | 1   | Handle/Trigger/Throttle Asy                                                        |
| 44    | 222992      | 1   | Kit - Throttle Latch                                                               |
| 45    |             | 1   | Knob - Throttle Latch Not available separately.                                    |
| 46    |             | 1   | Spring - Throttle Latch Not available separately.                                  |
| 47    |             | 1   | Rivet - Flat Not available separately.                                             |
| 48    | 217908      | 1   | Handle/Safety Trigger Asy                                                          |
| 49    | 68566       | 1   | Screw - Idle Adjustment                                                            |
| 50    | 110807      | 2   | Screw - Pan Hd 8-32 x .312 (35 - 50 in. lb. torque)                                |
| 51    | 93290       | 1   | Deflector - Sawdust                                                                |
| 52    | 217015      | 1   | Shroud - Using Auto Sharp                                                          |

| Ref # | Part Number | Qty | Description                                                         |
|-------|-------------|-----|---------------------------------------------------------------------|
|       | 216963      | 1   | Shroud - Non Auto Sharp                                             |
| 53    | 91853       | 1   | Cover - Air Filter                                                  |
| 54    | 91796       | 1   | Screw - Filter Cover                                                |
| 55    | 216905      | 1   | Filter - Air                                                        |
| 56    | 84918       | 1   | Washer - Air Seal                                                   |
| 57    | 216490      | 3   | Screw - Hex Hd 12-24 x .76 (70 - 80 in. lb. torque)                 |
| 58    | 110959      | 3   | Screw - Hex Hd 8-32 x .50 (15 - 20 in. lb. torque)                  |
| 59    | 213255      | 1   | Starter Asy                                                         |
| 60    | 90425       | 1   | Housing - Starter                                                   |
| 61    | 110041      | 1   | Screw - Pan Hd 8-32 x .50 (20 - 25 in. lb. torque)                  |
| 62    | 68497       | 1   | Washer - Special                                                    |
| 63    | 213257      | 1   | Drum/Rope Assembly                                                  |
| 64    | 83203       | 1   | Rope - Starter                                                      |
| 65    | 83078       | 1   | Spring - Rewind                                                     |
| 66    | 91255       | 1   | Handle Asy-Starter                                                  |
| 67    | 105490      | 1   | Washer - Starter Handle                                             |
| 68    | 110953      | 2   | Screw - Hex Hd 12-24 x .625 (20 - 25 in. lb. torque)                |
| 69    | 84520-01    | 1   | Plate - Washer                                                      |
| 70    | 84519       | 2   | Sleeve - Handle                                                     |
| 71    | 217909      | 1   | Trigger - Throttle                                                  |
| 72    | 83940       | 1   | Spring - Trigger Return                                             |
| 73    | 83935       | 1   | Contact - Switch                                                    |
| 74    | 83936       | 1   | Protector - Switch                                                  |
| 75    | 83934       | 1   | Button - Switch                                                     |
| 76    | 218853      | 1   | Decal - 2.0 Cu. In.                                                 |
| 77    | 219058      | 1   | Label - Safety                                                      |
| 78    |             | 1   | Powerhead Asy See "Powerhead Assembly" illustration and parts list. |



| Ref # | Part Number | Qty | Description                                            |
|-------|-------------|-----|--------------------------------------------------------|
| 1     | 86438       | 1   | Valve - Check                                          |
| 2     | 217156      | 1   | Connector - Oil Tank/Bar Pad                           |
| 3     | 105603      | 1   | Ring - "O" Spacer                                      |
| 4     | 217168      | 1   | Connector - Pump/Bar Pad                               |
| 5     | 217167      | 1   | Connector - Pump/Oil Tank                              |
| 6     | 83896       | 1   | Bail - Pump Retaining                                  |
| 7     | 219989      | 1   | Pump Assembly - Oil                                    |
| 8     | 83891       | 1   | Spring - Return                                        |
| 9     | 110651      | 1   | Screw - Oil Flow Adjustment                            |
| 10    |             | 1   | Body - Pump Not available separately.                  |
| 11    | 216426      | 1   | Kit - Oil Pump Repair                                  |
| 12    | 105603      | 1   | Ring - "O" .114 x .070                                 |
| 13    |             | 1   | Ring - Oil Pump Piston Not available separately.       |
| 14    |             | 1   | Piston Assembly - Oiler Not available separately.      |
| 15    | 216423      | 1   | Sleeve - Oil Pump                                      |
| 16    | 216422      | 1   | Eyelet                                                 |
| 17    | 110653      | 1   | Ring - "O"                                             |
| 18    | 215411      | 1   | Muffler Assembly                                       |
| 19    | 110681      | 2   | Screw - Skt. Hd. 10-24 x .250 (40 - 45 in. lb. torque) |
| 20    | 92961       | 1   | Deflector - Exhaust                                    |
| 21    | 215394      | 2   | Screw - Special (70 - 80 in. lb. torque)               |
| 22    | 214204      | 1   | Kit - Spark Arrestor Screen                            |
| 23    | 101987      | 1   | Screw - 6-32 x .250                                    |
| 24    | 215871      | 2   | Nut - Muffler (40 - 60 in. lb. torque)                 |
| 25    | 215471      | 1   | Plate - Lock                                           |
| 26    | 215412      | 1   | Deflector - Exhaust                                    |
| 27    | 216805      | 1   | Screen - Spark Arrestor                                |
| 28    | 215774      | 1   | Cover                                                  |
| 29    | 215776      | 1   | Baffle                                                 |
| 30    | 213369      | 1   | Screw - Hex Wsh M6 (70 - 85 in. lb. torque)            |
| 31    | 215757      | 2   | Bolt - Shoulder (65 - 85 in. lb. torque)               |
| 32    | 215773      | 1   | Base                                                   |
| 33    | 62345       | 1   | Plug - Spark DJ8J Champion                             |
|       | 92879       | 1   | Plug - Spark RDJ8 Champion                             |
| 34    | 89274       | 1   | Red - Throttle                                         |
| 35    | 89059       | 1   | Hose - Fuel                                            |
| 36    | 90660       | 1   | Adaptor - Fuel Hose                                    |
| 37    | 110908      | 1   | Ring - "O" Adaptor                                     |
| 35A   | 90661       | 1   | Kit - Fuel Hose                                        |
| 36    | 90660       | 1   | Adaptor Fuel Hose                                      |
| 37    | 110908      | 1   | Ring - "O"                                             |
| 38    | 87826       | 1   | Clamp - Fuel Hose                                      |
| 39    | 216640      | 1   | Nut - Hex 5/16-24 (200 - 220 in. lb. torque)           |
| 40    | 94737       | 1   | Flywheel/Pawl Assembly                                 |
| 41    | 216984      | 2   | Pin - Pawl                                             |
| 42    | 216982      | 2   | Spring - Pawl                                          |
| 43    | 93469       | 2   | Washer - Pawl                                          |
| 44    | 216983      | 2   | Pawl - Starter                                         |
| 45    | 102164      | 1   | Key - Woodruff                                         |
| 46    | 222866      | 3   | Screw - Pan Head 8 - 32 x 1.75                         |
| 47    | 105976      | 3   | Washer - Flat 11/64"                                   |
| 48    | 67177       | 3   | Washer - Insulating                                    |
| 49    | 68198       | 3   | Tube - Insulating                                      |

| Ref # | Part Number | Qty | Description                                                                                                                                                    |
|-------|-------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 50    |             | 1   | Carburetor Assemblies See "Carburetor Assembly (Zama M1-M7) illustration and parts list and "Carburetor Assembly (Walbro MDC 16)" illustration and parts list. |
| 51    | 68197       | 1   | Gasket - Carburetor                                                                                                                                            |
| 52    | 219389      | 1   | Connector/Insulator Assy                                                                                                                                       |
| 53    | 219754      | 1   | Insulator - Carburetor                                                                                                                                         |
| 54    |             | 1   | Screw - Connector Not available separately.                                                                                                                    |
| 55    | 219390      | 1   | Connector - Stop Switch                                                                                                                                        |
| 56    |             | 1   | Screw - Hex HD 8-32 x 1/2 Not available separately.                                                                                                            |
| 57    |             | 1   | Connector - Stop Switch Not available separately.                                                                                                              |
| 58    |             | 1   | Eyelet - Connector Not available separately.                                                                                                                   |
| 59    | 90714       | 1   | Gasket - Insulator                                                                                                                                             |
| 60    | 84957       | 1   | Coil - Lamination Assembly                                                                                                                                     |
| 61    | 215351      | 1   | Wire Assembly - Spark Plug                                                                                                                                     |
| 62    | 95266       | 1   | Boot                                                                                                                                                           |
| 63    | 102556      | 1   | Connector                                                                                                                                                      |
| 64    | 110364      | 1   | Screw - Pan Head 6-32x.625                                                                                                                                     |
| 65    | 69344       | 1   | Wire Assembly-Coil                                                                                                                                             |
| 66    | 110041      | 1   | Screw - Pan Head S-32x.50                                                                                                                                      |
| 67    | 85358       | 1   | Condenser                                                                                                                                                      |
| 68    | 100035      | 1   | Nut - Hex 6-32                                                                                                                                                 |
| 69    | 84502       | 1   | Connector - Stop Switch                                                                                                                                        |
| 70    | 67841       | 1   | Cover - Breaker Box                                                                                                                                            |
| 71    | 69323       | 1   | Seal - Breaker Box                                                                                                                                             |
| 72    | 213032      | 2   | Screw - Hex Head 8-32 x .50                                                                                                                                    |
| 73    | 69322       | 1   | Washer - Special                                                                                                                                               |
| 74    | 105976      | 1   | Washer - Flat 11/64"                                                                                                                                           |
| 75    | 88811       | 1   | Breaker - Assembly                                                                                                                                             |
| 76    | 84505-01    | 1   | Kit - Breaker Box                                                                                                                                              |
| 77    | 92037       | 1   | Washer                                                                                                                                                         |
| 78    | 217031      | 1   | Ignition Assembly - CDI                                                                                                                                        |
| 62    | 95266       | 1   | Boot                                                                                                                                                           |
| 63    | 102556      | 1   | Connector                                                                                                                                                      |
| 79    |             | 1   | Wire-Spark Plug Not available separately.                                                                                                                      |
| 80    | 217190      | 1   | Wire Assembly - Stop Switch                                                                                                                                    |
| 81    | 217165      | 1   | Cylinder/Crankcase Using Auto Sharp                                                                                                                            |
| 82    | 83856       | 1   | Bolt - Bar Mounting                                                                                                                                            |
| 83    | 110914      | 4   | Plug - Cup                                                                                                                                                     |
| 81    | 216935      | 1   | Cylinder/Crankcase Using Automatic Oiler                                                                                                                       |
| 82    | 83856       | 1   | Bolt - Bar Mounting                                                                                                                                            |
| 83    | 110914      | 4   | Plug - Cup                                                                                                                                                     |
| 81    | 217067      | 1   | Cylinder/Crankcase Without Automatic Oiler                                                                                                                     |
| 82    | 83856       | 1   | Bolt - Bar Mounting                                                                                                                                            |
| 83    | 110914      | 4   | Plug - Cup                                                                                                                                                     |
| 84    | 120097      | 4   | Screw - Hex M5 x 25 (70 - 80 in. lb. torque)                                                                                                                   |
| 81    | 216950      | 1   | Cylinder/Crankcase (Plated) Using Automatic Oiler                                                                                                              |
| 82    | 83856       | 1   | Bolt - Bar Mounting                                                                                                                                            |
| 83    | 110914      | 4   | Plug - Cup                                                                                                                                                     |
| 84    | 120097      | 4   | Screw - Hex M5 x 25 (70 - 80 in. lb. torque)                                                                                                                   |
| 85    | 213327      | 2   | Screw - Special                                                                                                                                                |
| 86    | 94662       | 1   | Piston Assembly                                                                                                                                                |
| 87    | 95143       | 2   | Ring - Piston                                                                                                                                                  |
| 88    | 92836       | 1   | Pin - Piston                                                                                                                                                   |
| 89    | 111026      | 2   | Ring - Snap                                                                                                                                                    |

| Ref # | Part Number | Qty | Description                                                                                              |
|-------|-------------|-----|----------------------------------------------------------------------------------------------------------|
| 86    | 216713      | 1   | Piston Assembly (Non-Plated)                                                                             |
| 87    | 216705      | 1   | Ring - Piston                                                                                            |
| 88    | 92836       | 1   | Pin - Piston                                                                                             |
| 89    | 111026      | 2   | Ring - Snap                                                                                              |
| 90    | 94135       | 1   | Rod Assembly - Connecting                                                                                |
| 91    | 94654       | 2   | Screw - Connecting Rod                                                                                   |
| 92    | 68095       | 1   | Roller - Needle (set of 20)                                                                              |
| 93    | 110984      | 1   | Bearing - Needle                                                                                         |
| 94    | 213282      | 2   | Bearing - Crankshaft                                                                                     |
| 95    | 83859       | 2   | Seal - Crankshaft                                                                                        |
| 96    | 217042      | 1   | Crankshaft                                                                                               |
|       | 91932       | 1   | Crankshaft                                                                                               |
| 97    | 216582      | 1   | Kit - Manual Oil Pump (Includes P/N 217156 item 4,<br>P/N 217167 item 5, P/N 83896 item 6 and item 10).; |

No  
Diagram  
Available  
  
Parts List  
Only

| Ref # | Part Number | Qty | Description                                |
|-------|-------------|-----|--------------------------------------------|
|       | 68915-01    |     | Kit - Piston Pin Installation/Removal Tool |
|       | 93900       |     | Kit - Cylinder/C'Case Pressure Test        |
|       | 215432      |     | Tool - Pressure Test                       |
|       | 214219      |     | Wrench/Screwdriver                         |
|       | 216063      |     | Key - Socket 5/32"                         |