

# CRANKSHAFTS & CONNECTING ROD



APS AUTOMOTIVE ENTERPRISE CO.,LTD.  
APS ( XIAMEN ) TRADE CO.,LTD.



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# 2020

## CRANKSHAFTS & CONNECTING ROD APPLICATION GUIDE

## VW TYPE CASTING CRANKSHAFTS

A1



This is a Brand New Cast Counter weighted Crankshaft With STD VW rod Journals for the VW Type 1 Air Cooled Engine. It is CNC machined from One Piece of forged Chromoly steel. These cranks are Nitrided for strength and micro polished.

Engine: Air Cooled VW Type 1 Rod Journal: STD VW Type 1  
 Sizes available: in "MM"

| APS NO. | OE NO.     | DESCRIPTION                         |
|---------|------------|-------------------------------------|
| A040002 | 002 4074VW | Casting Crankshaft-74mm Stroke - VW |
| A040003 | 002 4069VW | Casting Crankshaft-69mm Stroke - VW |

A2



This new cast steel crankshaft is a direct replacement for the original part from Volkswagen. It has a 69mm or 64mm stroke just like the stock crankshaft, but has been cross-drilled for better oiling.

| APS NO. | OE NO.     | DESCRIPTION   |
|---------|------------|---|
| A040001 | 042 4069VW | Casting Crankshaft-69mm Stroke - VW<br>(It fits all 1300-1600cc Type 1, 2, and 3 engines) |
| A040004 | 042 4064VW | Casting Crankshaft-64mm Stroke - VW   |

## VW TYPE 1 4340 FORGED CRANKSHAFTS

C1



This is a Brand New Forged 4340 Chromoly Counterweighted Crankshaft With STD VW rod Journals for the VW Type 1 Air Cooled Engine. It is CNC machined from One Piece of forged Chromoly steel. These cranks are Nitrided for strength and micro polished.

Engine: Air-Cooled VW Type 1 Rod Journal: STD VW Type 1  
 Sizes available: in "MM"

| APS NO.  | OE NO.     | DESCRIPTION                                       |
|----------|------------|---|
| A0403001 | 003 4374VW | 4340 Forged Crankshaft - 74mm Stroke - VW Journal |
| A0403002 | 003 4376VW | 4340 Forged Crankshaft - 76mm Stroke - VW Journal |
| A0403003 | 003 4378VW | 4340 Forged Crankshaft - 78mm Stroke - VW Journal |
| A0403004 | 003 4380VW | 4340 Forged Crankshaft - 80mm Stroke - VW Journal |
| A0403005 | 003 4382VW | 4340 Forged Crankshaft - 82mm Stroke - VW Journal |
| A0403006 | 003 4384VW | 4340 Forged Crankshaft - 84mm Stroke - VW Journal |

C2



This is a Brand New Forged 4340 Chromoly Counterweighted Crankshaft with Chevy rod Journals for the VW Type 1 Air Cooled Engine. It is CNC machined from One Piece of forged Chromoly steel. These cranks are Nitrided for strength and micro polished. The 2" Chevy rod journal is smaller than the VW so you will have less clearance issues making it easier to install.

Engine: Air Cooled VW Type 1 Rod Journal: 2" Chevy  
 Sizes available: in "MM"

| APS NO.  | OE NO.    | DESCRIPTION  |
|----------|-----------|--|
| A0403007 | 003 4376C | 4340 Forged Crankshaft - 76mm Stroke - Chevy Journal |
| A0403008 | 003 4378C | 4340 Forged Crankshaft - 78mm Stroke - Chevy Journal |
| A0403009 | 003 4380C | 4340 Forged Crankshaft - 80mm Stroke - Chevy Journal |
| A0403010 | 003 4382C | 4340 Forged Crankshaft - 82mm Stroke - Chevy Journal |
| A0403011 | 003 4384C | 4340 Forged Crankshaft - 84mm Stroke - Chevy Journal |
| A0403012 | 003 4386C | 4340 Forged Crankshaft - 86mm Stroke - Chevy Journal |

## VW TYPE 1 4140 FORGED CRANKSHAFTS

B1



This is a Brand New Forged 4140 Chromoly Counter-weighted Crankshaft With STD VW rod Journals for the VW Type 1 Air Cooled Engine. It is CNC machined from One Piece of forged Chromoly steel. These cranks are Nitrided for strength and micro polished.

Engine: Air Cooled VW Type 1 Rod Journal: STD VW Type 1  
 Sizes available: in "MM"

| APS NO.  | OE NO.     | DESCRIPTION                                       |
|----------|------------|---|
| A0402001 | 002 4169VW | 4140 Forged Crankshaft - 69mm Stroke - VW Journal |
| A0402002 | 002 4174VW | 4140 Forged Crankshaft - 74mm Stroke - VW Journal |
| A0402003 | 002 4176VW | 4140 Forged Crankshaft - 76mm Stroke - VW Journal |
| A0402004 | 002 4178VW | 4140 Forged Crankshaft - 78mm Stroke - VW Journal |
| A0402005 | 002 4180VW | 4140 Forged Crankshaft - 80mm Stroke - VW Journal |
| A0402006 | 002 4182VW | 4140 Forged Crankshaft - 82mm Stroke - VW Journal |

B2



This is a Brand New Forged 4140 Chromoly Counterweighted Crankshaft with Chevy rod Journals for the VW Type 1 Air Cooled Engine. It is CNC machined from One Piece of forged Chromoly steel. These cranks are Nitrided for strength and micro polished. The 2" Chevy rod journal is smaller than the VW so you will have less clearance issues making it easier to install on stroked Engines

Engine: Air Cooled VW Type 1 Journal: 2" Chevy  
 Sizes available: in "MM"

| APS NO.  | OE NO.    | DESCRIPTION  |
|----------|-----------|--|
| A0402007 | 002 4176C | 4140 Forged Crankshaft - 76mm Stroke - Chevy Journal |
| A0402008 | 002 4182C | 4140 Forged Crankshaft - 82mm Stroke - Chevy Journal |
| A0402009 | 002 4184C | 4140 Forged Crankshaft - 84mm Stroke - Chevy Journal |
| A0402010 | 002 4178C | 4140 Forged Crankshaft - 78mm Stroke - Chevy Journal |

C3



This is a Brand new Porsche 914/ VW Type IV Forged 4340 Chromoly counterweighted crankshaft. These cranks feature a Light Weight design. All cranks are ground to exacting tolerances, magnafluxed and balanced to factory specs.

Engine: Air Cooled VW Type 4/Porsche 914 Rod Journal: STD 2.0L  
 Sizes available: in "MM"

| APS NO.  | OE NO.   | DESCRIPTION                                     |
|----------|----------|---|
| A0404001 | 004 4371 | 4340 Forged Crankshaft - 71mm Stroke - STD 2.0L |
| A0404002 | 004 4376 | 4340 Forged Crankshaft - 76mm Stroke - STD 2.0L |
| A0404003 | 004 4378 | 4340 Forged Crankshaft - 78mm Stroke - STD 2.0L |
| A0404004 | 004 4380 | 4340 Forged Crankshaft - 80mm Stroke - STD 2.0L |
| A0404005 | 004 4382 | 4340 Forged Crankshaft - 82mm Stroke - STD 2.0L |
| A0404006 | 004 4384 | 4340 Forged Crankshaft - 84mm Stroke - STD 2.0L |
| A0404014 | 004 4386 | 4340 Forged Crankshaft - 86mm Stroke - STD 2.0L |

C4



This is a Brand new Porsche 914/ VW Type IV Forged 4340 Chromoly counterweighted crankshaft. These cranks feature a Light Weight design. All cranks are ground to exacting tolerances, magnafluxed and balanced to factory specs. This is with VW Type 1 rod journals, more commonly used to offset grind to a specific Chevy size.

Engine: Air Cooled VW Type 4/Porsche 914 Rod Journal: STD VW Type 1  
 Sizes available: in "MM"

| APS NO.  | OE NO.     | DESCRIPTION                                       |
|----------|------------|---|
| A0404007 | 004 4378VW | 4340 Forged Crankshaft - 78mm Stroke - VW Journal |
| A0404008 | 004 4380VW | 4340 Forged Crankshaft - 80mm Stroke - VW Journal |
| A0404009 | 004 4382VW | 4340 Forged Crankshaft - 82mm Stroke - VW Journal |

## VW TYPE 1 4340 FORGED CRANKSHAFTS

C5



This is a Brand new Porsche 914/ VW Type IV Forged 4340 Chromoly counterweighted crankshaft. These cranks feature a Light Weight design. All cranks are ground to exacting tolerances, magnafluxed and balanced to factory specs. This crankshaft comes with Chevy rod journals. Chevy rod journal is smaller than the VW so you will have less clearance issues making it easier to install.

Engine: Air Cooled VW Type 4/Porsche 914 Rod Journal: 2" Chevy  
 Sizes available: in "MM"

| APS NO.  | OE NO.    | DESCRIPTION  |
|----------|-----------|--|
| A0404010 | 004 4380C | 4340 Forged Crankshaft - 80mm Stroke - Chevy Journal |
| A0404011 | 004 4382C | 4340 Forged Crankshaft - 82mm Stroke - Chevy Journal |
| A0404012 | 004 4384C | 4340 Forged Crankshaft - 84mm Stroke - Chevy Journal |
| A0404013 | 004 4386C | 4340 Forged Crankshaft - 86mm Stroke - Chevy Journal |
| A0404015 | 004 4378C | 4340 Forged Crankshaft - 78mm Stroke - Chevy Journal |

C6



This is a Brand New Billet 4340 Flanged Racing Crankshaft for the VW Type 1 Air Cooled Engine. It uses T-IV main bearings and 2" Chevy rod bearings. It is CNC machined from one piece of 4340 Chromoly Billet into a counter-weighted flanged flywheel end crankshaft. It is then shot-peened, nitrided, stress relieved, micro polished and balanced. The flywheel attachment is through 6 bolts and 6 studs.

Engine: Air-cooled VW Type 1 Rod Journal: 2" Chevy  
 Sizes available: in "MM"

| APS NO.  | OE NO.     | DESCRIPTION  |
|----------|------------|--|
| A0401001 | 003 4382FB | 4340 Super Race Crankshaft - 82mm Stroke - Chevy Journal |
| A0401002 | 003 4384FB | 4340 Super Race Crankshaft - 84mm Stroke - Chevy Journal |
| A0401003 | 003 4386FB | 4340 Super Race Crankshaft - 86mm Stroke - Chevy Journal |
| A0401004 | 003 4388FB | 4340 Super Race Crankshaft - 88mm Stroke - Chevy Journal |
| A0401005 | 003 4378FB | 4340 Super Race Crankshaft - 78mm Stroke - Chevy Journal |
| A0401006 | 003 4380FB | 4340 Super Race Crankshaft - 80mm Stroke - Chevy Journal |

## PORSCHE 356 C/SC & 912 4340 FORGED CRANKSHAFTS

D1



This is a Brand New Forged 4340 Chromoly Counterweighted Crankshaft for the Porsche 356 C/SC & 912 Air Cooled Engine.

These cranks are Nitrided for strength, micro polished, and Balanced within a gram.

| APS NO.  | OE NO.     | DESCRIPTION  |
|----------|------------|--|
| A0408001 | 0084001S74 | 4340 Super Race Crankshaft - 74mm Stroke - Porsche Journal |



## OTHER CRANKSHAFTS LIST

| SERIES    | APS NO.  | ENGINE | STROKE (inch) | MAIN JOURNAL (inch) | ROD JOURNAL (inch) |
|-----------|----------|--------|---------------|---------------------|--------------------|
| BUICK-V6  | A0700001 | 1      | 3.625         | 2.4996-2.4988       | 2.2494-2.2484      |
|           | A0700002 | 1      | 3.400         | 2.4996-2.4988       | 2.2494-2.2484      |
| CHEVY LS1 | A0700003 | 1      | 3.622         | 2.559-2.558         | 2.100-2.0990       |
|           | A0700004 | 1      | 3.900         | 2.559-2.558         | 2.100-2.0990       |
|           | A0700005 | 1      | 4.000         | 2.559-2.558         | 2.100-2.0990       |
|           | A0700006 | 1      | 4.100         | 2.559-2.558         | 2.100-2.0990       |
|           | A0700007 | 1      | 4.125         | 2.559-2.558         | 2.100-2.0990       |
| CHEVY 350 | A0700008 | 1      | 3.250         | 2.4492-2.4484       | 2.100-2.0990       |
|           | A0700009 | 1      | 3.480         | 2.4492-2.4484       | 2.100-2.0990       |
|           | A0700010 | 1      | 3.500         | 2.4492-2.4484       | 2.100-2.0990       |
|           | A0700011 | 1      | 3.562         | 2.4492-2.4484       | 2.100-2.0990       |
|           | A0700012 | 1      | 3.625         | 2.4492-2.4484       | 2.100-2.0990       |
|           | A0700013 | 1      | 3.750         | 2.4492-2.4484       | 2.100-2.0990       |
|           | A0700014 | 1      | 3.800         | 2.4492-2.4484       | 2.100-2.0990       |
|           | A0700015 | 1      | 3.875         | 2.4492-2.4484       | 2.100-2.0990       |
|           | A0700016 | 1      | 4.000         | 2.4492-2.4484       | 2.100-2.0990       |
|           | A0700017 | 1      | 4.125         | 2.4492-2.4484       | 2.100-2.0990       |
|           | A0700018 | 1      | 3.480         | 2.4492-2.4484       | 2.100-2.0990       |
|           | A0700019 | 1      | 3.500         | 2.4492-2.4484       | 2.100-2.0990       |
|           | A0700020 | 1      | 3.750         | 2.4492-2.4484       | 2.100-2.0990       |
|           | A0700021 | 1      | 3.875         | 2.4492-2.4484       | 2.100-2.0990       |
|           | A0700022 | 1      | 4.000         | 2.4492-2.4484       | 2.100-2.0990       |
|           | A0700023 | 1      | 3.250         | 2.4492-2.4484       | 2.100-2.0990       |
|           | A0700024 | 1      | 3.480         | 2.4492-2.4484       | 2.100-2.0990       |
|           | A0700025 | 1      | 3.500         | 2.4492-2.4484       | 2.100-2.0990       |
|           | A0700026 | 1      | 3.750         | 2.4492-2.4484       | 2.100-2.0990       |
|           | A0700027 | 1      | 3.800         | 2.4492-2.4484       | 2.100-2.0990       |
|           | A0700028 | 1      | 3.875         | 2.4492-2.4484       | 2.100-2.0990       |
|           | A0700029 | 1      | 4.000         | 2.4492-2.4484       | 2.100-2.0990       |
|           | A0700030 | 1      | 3.480         | 2.4492-2.4484       | 2.100-2.0990       |
|           | A0700031 | 1      | 3.500         | 2.4492-2.4484       | 2.100-2.0990       |
|           | A0700032 | 1      | 3.750         | 2.4492-2.4484       | 2.100-2.0990       |

| SERIES      | APS NO.     | ENGINE   | STROKE (inch) | MAIN JOURNAL (inch) | ROD JOURNAL (inch) |              |
|-------------|-------------|----------|---------------|---------------------|--------------------|--------------|
| CHEVY 400   | A0700033    | l        | 3.480         | 2.6494-2.6486       | 2.100-2.0990       |              |
|             | A0700034    | l        | 3.500         | 2.6494-2.6486       | 2.100-2.0990       |              |
|             | A0700035    | l        | 3.562         | 2.6494-2.6486       | 2.100-2.0990       |              |
|             | A0700036    | l        | 3.625         | 2.6494-2.6486       | 2.100-2.0990       |              |
|             | A0700037    | l        | 3.750         | 2.6494-2.6486       | 2.100-2.0990       |              |
|             | A0700038    | l        | 3.800         | 2.6494-2.6486       | 2.100-2.0990       |              |
|             | A0700039    | l        | 3.875         | 2.6494-2.6486       | 2.100-2.0990       |              |
|             | A0700040    | l        | 4.000         | 2.6494-2.6486       | 2.100-2.0990       |              |
|             | A0700041    | l        | 4.125         | 2.6494-2.6486       | 2.100-2.0990       |              |
|             | A0700042    | l        | 3.750         | 2.6494-2.6486       | 2.100-2.0990       |              |
|             | A0700043    | l        | 3.875         | 2.6494-2.6486       | 2.100-2.0990       |              |
|             | A0700044    | l        | 4.000         | 2.6494-2.6486       | 2.100-2.0990       |              |
|             | CHEVY 454-6 | A0700045 | l             | 4.000               | 2.7496-2.7488      | 2.200-2.1990 |
|             |             | A0700046 | l             | 4.125               | 2.7496-2.7488      | 2.200-2.1990 |
| A0700047    |             | l        | 4.250         | 2.7496-2.7488       | 2.200-2.1990       |              |
| A0700048    |             | l        | 4.375         | 2.7496-2.7488       | 2.200-2.1990       |              |
| A0700049    |             | l        | 4.500         | 2.7496-2.7488       | 2.200-2.1990       |              |
| A0700050    |             | l        | 4.625         | 2.7496-2.7488       | 2.200-2.1990       |              |
| A0700051    |             | l        | 4.750         | 2.7496-2.7488       | 2.200-2.1990       |              |
| A0700052    |             | l        | 4.000         | 2.7496-2.7488       | 2.200-2.1990       |              |
| A0700053    |             | l        | 4.125         | 2.7496-2.7488       | 2.200-2.1990       |              |
| A0700054    |             | l        | 4.250         | 2.7496-2.7488       | 2.200-2.1990       |              |
| A0700055    |             | l        | 4.375         | 2.7496-2.7488       | 2.200-2.1990       |              |
| A0700056    |             | l        | 4.500         | 2.7496-2.7488       | 2.200-2.1990       |              |
| A0700057    |             | l        | 4.625         | 2.7496-2.7488       | 2.200-2.1990       |              |
| A0700058    |             | l        | 4.750         | 2.7496-2.7488       | 2.200-2.1990       |              |
| CHEVY 454-8 | A0700059    | l        | 4.000         | 2.7496-2.7488       | 2.200-2.1990       |              |
|             | A0700060    | l        | 4.125         | 2.7496-2.7488       | 2.200-2.1990       |              |
|             | A0700061    | l        | 4.250         | 2.7496-2.7488       | 2.200-2.1990       |              |
|             | A0700062    | l        | 4.375         | 2.7496-2.7488       | 2.200-2.1990       |              |
|             | A0700063    | l        | 4.500         | 2.7496-2.7488       | 2.200-2.1990       |              |
|             | A0700064    | l        | 4.625         | 2.7496-2.7488       | 2.200-2.1990       |              |
|             | A0700065    | l        | 4.750         | 2.7496-2.7488       | 2.200-2.1990       |              |
|             | A0700066    | l        | 4.000         | 2.7496-2.7488       | 2.200-2.1990       |              |

| SERIES                     | APS NO.  | ENGINE | STROKE (inch) | MAIN JOURNAL (inch) | ROD JOURNAL (inch) |
|----------------------------|----------|--------|---------------|---------------------|--------------------|
| CHEVY 454-8<br>(Continued) | A0700067 | l      | 4.125         | 2.7488-2.7480       | 2.200-2.1990       |
|                            | A0700068 | l      | 4.250         | 2.7488-2.7480       | 2.200-2.1990       |
|                            | A0700069 | l      | 4.375         | 2.7488-2.7480       | 2.200-2.1990       |
|                            | A0700070 | l      | 4.500         | 2.7488-2.7480       | 2.200-2.1990       |
|                            | A0700071 | l      | 4.625         | 2.7488-2.7480       | 2.200-2.1990       |
|                            | A0700072 | l      | 4.750         | 2.7488-2.7480       | 2.200-2.1990       |
| DODGE 440                  | A0700073 | l      | 3.750-4.150   | 2.7503-2.7495       | 2.3748-2.3738      |
|                            | A0700074 | l      | 3.750-4.150   | 2.7503-2.7495       | 2.3748-2.3738      |
|                            | A0700075 | l      | 4.250-4.750   | 2.7503-2.7495       | 2.200-2.1990       |
|                            | A0700076 | l      | 4.250-4.750   | 2.7503-2.7495       | 2.200-2.1990       |
|                            | A0700077 | l      | 3.750-4.150   | 2.6251-2.6243       | 2.3748-2.3738      |
|                            | A0700078 | l      | 3.900-4.250   | 2.6251-2.6243       | 2.200-2.1990       |
| FORD 351                   | A0700079 | l      | 4.250         | 2.9993-3.0001       | 2.0990-2.1000      |
|                            | A0700080 | l      | 4.170         | 2.9993-3.0001       | 2.0990-2.1000      |
|                            | A0700081 | l      | 4.125         | 2.9993-3.0001       | 2.0990-2.1000      |
|                            | A0700082 | l      | 4.100         | 2.9993-3.0001       | 2.0990-2.1000      |
|                            | A0700083 | l      | 4.000         | 2.9993-3.0001       | 2.0990-2.1000      |
|                            | A0700084 | l      | 3.875         | 2.9993-3.0001       | 2.0990-2.1000      |
|                            | A0700085 | l      | 3.850         | 2.9993-3.0001       | 2.0990-2.1000      |
|                            | A0700086 | l      | 3.800         | 2.9993-3.0001       | 2.0990-2.1000      |
|                            | A0700087 | l      | 3.750         | 2.9993-3.0001       | 2.0990-2.1000      |
|                            | A0700088 | l      | 3.625         | 2.9993-3.0001       | 2.0990-2.1000      |
|                            | A0700089 | l      | 3.600         | 2.9993-3.0001       | 2.0990-2.1000      |
|                            | A0700090 | l      | 3.562         | 2.9993-3.0001       | 2.0990-2.1000      |
|                            | A0700091 | l      | 3.500         | 2.9993-3.0001       | 2.0990-2.1000      |
|                            | A0700092 | l      | 3.480         | 2.9993-3.0001       | 2.0990-2.1000      |
| FORD 352                   | A0700093 | l      | 4.250         | 2.7484-2.7492       | 2.0990-2.1000      |
|                            | A0700094 | l      | 4.170         | 2.7484-2.7492       | 2.0990-2.1000      |
|                            | A0700095 | l      | 4.125         | 2.7484-2.7492       | 2.0990-2.1000      |
|                            | A0700096 | l      | 4.100         | 2.7484-2.7492       | 2.0990-2.1000      |
|                            | A0700097 | l      | 4.000         | 2.7484-2.7492       | 2.0990-2.1000      |
|                            | A0700098 | l      | 3.875         | 2.7484-2.7492       | 2.0990-2.1000      |
|                            | A0700099 | l      | 3.850         | 2.7484-2.7492       | 2.0990-2.1000      |
|                            | A0700100 | l      | 3.800         | 2.7484-2.7492       | 2.0990-2.1000      |



| SERIES                         | APS NO.  | ENGINE   | STROKE (inch) | MAIN JOURNAL (inch) | ROD JOURNAL (inch) |
|--------------------------------|----------|--|---------------|---------------------|--------------------|
| <b>FORD 352</b><br>(Continued) | A0700101 | 1  | 3.750         | 2.7484-2.7492       | 2.0990-2.1000      |
|                                | A0700102 | 1  | 3.625         | 2.7484-2.7492       | 2.0990-2.1000      |
|                                | A0700103 | 1  | 3.600         | 2.7484-2.7492       | 2.0990-2.1000      |
|                                | A0700104 | 1  | 3.562         | 2.7484-2.7492       | 2.0990-2.1000      |
|                                | A0700105 | 1  | 3.500         | 2.7484-2.7492       | 2.0990-2.1000      |
|                                | A0700106 | 1  | 3.480         | 2.7484-2.7492       | 2.0990-2.1000      |
| <b>FORD 302</b>                | A0700107 | 1  | 3.470         | 2.2482-2.2490       | 2.0990-2.1000      |
|                                | A0700108 | 1  | 3.470         | 2.2482-2.2490       | 2.1222-2.1232      |
|                                | A0700109 | 1  | 3.400         | 2.2482-2.2490       | 2.0990-2.1000      |
|                                | A0700110 | 1  | 3.400         | 2.2482-2.2490       | 2.1222-2.1232      |
|                                | A0700111 | 1  | 3.250         | 2.2482-2.2490       | 2.0990-2.1000      |
|                                | A0700112 | 1  | 3.250         | 2.2482-2.2490       | 2.1222-2.1232      |
|                                | A0700113 | 1  | 3.100         | 2.2482-2.2490       | 2.0990-2.1000      |
|                                | A0700114 | 1  | 3.100         | 2.2482-2.2490       | 2.1222-2.1232      |
|                                | A0700115 | 1  | 3.000         | 2.2482-2.2490       | 2.0990-2.1000      |
|                                | A0700116 | 1  | 3.000         | 2.2482-2.2490       | 2.1222-2.1232      |
| <b>FORD 460</b>                | A0700117 | 1  | 4.140         | 3.0000-2.9992       | 2.2000-2.1990      |
|                                | A0700118 | 1  | 4.160         | 3.0000-2.9992       | 2.2000-2.1990      |
|                                | A0700119 | 1  | 4.300         | 3.0000-2.9992       | 2.2000-2.1990      |
|                                | A0700120 | 1  | 4.500         | 3.0000-2.9992       | 2.2000-2.1990      |
|                                | A0700121 | 1  | 4.600         | 3.0000-2.9992       | 2.2000-2.1990      |
| <b>FORD</b>                    | A0600001 | 2.0T <small>(Suits for MONDEO / EDGE / KUGA / FOCUS ST / VOLVO XC360 / RANGE ROVER EVOQUE &amp; JAGUAR)</small>              | 1             | 1                   | 1                  |
| <b>ISUZU</b>                   | A0500001 | 4JB1 (Forging 49MnVS3)   | 4.016         | 2.7559              | 2.0866             |
|                                | A0500002 | 4JJ1 (Forging 4140 Steel)  | 4.094         | 2.7559              | 2.0866             |
| <b>LAND ROVER</b>              | A0600002 | TDV6 <small>(Both TDV6 2.7L &amp; TDV6 3.0L available. Can supply covers and bearings to match with the crankshaft.)</small> | 1             | 1                   | 1                  |
| <b>MITSUBISHI</b>              | A0500003 | 4G64 (Forging 4140 Steel)  | 3.937         | 2.2441              | 1.7717             |
|                                | A0500004 | 4G63 (Forging 4140 Steel)  | 3.465         | 2.2441              | 1.7717             |
|                                | A0500005 | 4A91 (Casting Ductile Iron)  | 1             | 1                   | 1                  |
| <b>NISSAN / INFINITI</b>       | A0600003 | V9X (Forging Steel 40CrNiMoA)  | 1             | 1                   | 1                  |
| <b>PONTIAC</b>                 | A0700122 | 1  | 4.000         | 3.2500-3.2492       | 2.2496-2.2486      |
|                                | A0700123 | 1  | 4.210         | 3.2500-3.2492       | 2.2496-2.2486      |
|                                | A0700124 | 1  | 4.250         | 3.2500-3.2492       | 2.2000-2.1990      |
|                                | A0700125 | 1  | 4.500         | 3.2500-3.2492       | 2.2000-2.1990      |
|                                | A0700126 | 1  | 3.750         | 3.0000-2.9992       | 2.2496-2.2486      |

| SERIES                        | APS NO.  | ENGINE                        | STROKE (inch) | MAIN JOURNAL (inch) | ROD JOURNAL (inch) |
|-------------------------------|----------|-------------------------------|---------------|---------------------|--------------------|
| <b>PONTIAC</b><br>(Continued) | A0700127 | 1                             | 4.210         | 3.0000-2.9992       | 2.2496-2.2486      |
|                               | A0700128 | 1                             | 4.250         | 3.0000-2.9992       | 2.2000-2.1990      |
|                               | A0700129 | 1                             | 4.500         | 3.0000-2.9992       | 2.2000-2.1990      |
|                               | A0700130 | 1                             | 4.750         | 3.0000-2.9992       | 2.2000-2.1990      |
| <b>TOYOTA</b>                 | A0600004 | 1GR (Forging Steel 40CrNiMoA) | 1             | 1                   | 1                  |
|                               | A0500006 | 4Y (Casting Ductile Iron)     | 3.386         | 2.2835              | 1.8898             |
|                               | A0500007 | 8A (Casting Ductile Iron)     | 2.717         | 1.8898              | 1.5748             |
|                               | A0500008 | 5A (Casting Ductile Iron)     | 3.031         | 1.8898              | 1.5748             |
| <b>VOLKSWAGEN</b>             | A0500009 | VW (Forging 4140 Steel)       | 2.717         | 2.1646              | 2.1654             |
|                               | A0500010 | VW (Forging 4140 Steel)       | 2.913         | 2.1646              | 2.1654             |
|                               | A0500011 | VW (Forging 4140 Steel)       | 2.992         | 2.1646              | 2.1654             |
|                               | A0500012 | VW (Forging 4140 Steel)       | 3.087         | 2.1646              | 2.1654             |
|                               | A0500013 | VW (Forging 4140 Steel)       | 3.228         | 2.1646              | 2.1654             |
|                               | A0500014 | Chevy (Forging 4140 Steel)    | 3.087         | 2.1646              | 2.0000             |
|                               | A0500015 | Chevy (Forging 4140 Steel)    | 3.228         | 2.1646              | 2.0000             |
|                               | A0500016 | Chevy (Forging 4140 Steel)    | 3.307         | 2.1646              | 2.0000             |
|                               | A0500017 | Chevy (Forging 4140 Steel)    | 3.386         | 2.1646              | 2.0000             |
|                               | A0500018 | VW (Forging 4340 Steel)       | 2.717         | 2.1646              | 2.1654             |
|                               | A0500019 | VW (Forging 4340 Steel)       | 2.913         | 2.1646              | 2.1654             |
|                               | A0500020 | VW (Forging 4340 Steel)       | 2.992         | 2.1646              | 2.1654             |
|                               | A0500021 | VW (Forging 4340 Steel)       | 3.087         | 2.1646              | 2.1654             |
|                               | A0500022 | VW (Forging 4340 Steel)       | 3.228         | 2.1646              | 2.1654             |
|                               | A0500023 | Chevy (Forging 4340 Steel)    | 3.087         | 2.1646              | 2.0000             |
|                               | A0500024 | Chevy (Forging 4340 Steel)    | 3.228         | 2.1646              | 2.0000             |
|                               | A0500025 | Chevy (Forging 4340 Steel)    | 3.307         | 2.1646              | 2.0000             |
|                               | A0500026 | Chevy (Forging 4340 Steel)    | 3.386         | 2.1646              | 2.0000             |

## VW TYPE 1 I BEAM CONNECTING RODS

E1



This is a Brand New Set of I Beam Connecting Rods for the VW Type 1 Air Cooled Engine with VW Journals. These are forged Chromoly steel with high strength 3/8" Rod Bolts, and are stroker clearance for the bigger stroked cranks. These rods are a great upgrade over stock VW rods and will work great in a stroker engine.

Engine: Air Cooled VW Type 1 Wrist Pin: 22mm Journal: STD VW  
Bolt Type: 200K or ARP 2000

| APS NO.  | OE NO.     | DESCAPTION   |
|----------|------------|--|
| A0301007 | 131 4152VW | 5.325" Forged Chromoly "I" Beam Rod Set VW Journal |
| A0301002 | 131 4154VW | 5.400" Forged Chromoly "I" Beam Rod Set VW Journal |
| A0301003 | 131 4155VW | 5.500" Forged Chromoly "I" Beam Rod Set VW Journal |

E2



This is a Brand New Set of I Beam Connecting Rods for the VW Type 1 Air Cooled Engine with Chevy Journals. These are forged Chromoly steel with high strength 3/8" Rod Bolts, and are stroker clearance for the bigger stroked cranks. the 2" Chevy Journal is smaller than the STD VW Journal giving you even more stroker clearance. These rods are a great upgrade over stock VW rods and will work great in a stroker engine.

Engine: Air Cooled VW Type 1 Wrist Pin: 22mm Journal: Chevy 2"  
Bolt Type: 200K or ARP 2000

| APS NO.  | OE NO.      | DESCAPTION  |
|----------|-------------|---|
| A0301004 | 131 4154C B | 5.394" Forged Chromoly "I" Beam Rod Set Chevy Journal |
| A0301005 | 131 4154C   | 5.400" Forged Chromoly "I" Beam Rod Set Chevy Journal |
| A0301006 | 131 4155C   | 5.500" Forged Chromoly "I" Beam Rod Set Chevy Journal |

E3



This is a New Set of stock replacment VW Rods for the VW Type 1 1600, The rods feature STD vw style bolts and is Machined to exact Specifications.

Engine: Air Cooled VW Type 1 Wrist Pin: 22mm Journal: STD VW

| APS NO.  | OE NO.       | DESCAPTION   |
|----------|--------------|--|
| A0301506 | 311 105 401B | 5.394" Forged Chromoly "I" Beam Rod Set VW Journal |



## VW TYPE 1 H BEAM CONNECTING RODS

F1



This is a Brand New Set of H Beam Connecting Rods for the VW Type 1 Air Cooled Engine with VW Journals. These are forged Chromoly steel with high strength 5/16" Rod Bolts, and are stroker clearance for the bigger stroked cranks. These rods are a great upgrade over stock VW rods and will work great in a stroker engine.

Engine: Air Cooled VW Type 1 Wrist Pin: 22mm Journal: VW Type 1  
Bolt Type: 200K or ARP 2000

| APS NO.  | OE NO.   | DESCAPTION   |
|----------|----------|--|
| A0302001 | H-4353VW | 5.394" Forged Chromoly "H" Beam Rod Set VW Journal |
| A0302002 | H-4354VW | 5.400" Forged Chromoly "H" Beam Rod Set VW Journal |
| A0302003 | H-4355VW | 5.500" Forged Chromoly "H" Beam Rod Set VW Journal |
| A0302004 | H-4356VW | 5.600" Forged Chromoly "H" Beam Rod Set VW Journal |

F2



This is a Brand New Set of H Beam Connecting Rods for the VW Type 1 Air Cooled Engine with Chevy Journals. These are 4340 forged Chromoly steel with high strength 5/16" Rod Bolts, and are stroker clearance for the bigger stroked cranks. the 2" Chevy Journal is smaller than the STD VW Journal giving you even more stroker clearance. These rods are a great upgrade over stock VW rods and will work great in a stroker engine.

Engine: Air Cooled VW Type 1 Wrist Pin: 22mm Journal: Chevy 2"  
Bolt Type: 200K or ARP 2000

| APS NO.  | OE NO.  | DESCAPTION  |
|----------|---------|---|
| A0302005 | H-4354C | 5.400" Forged Chromoly "H" Beam Rod Set Chevy Journal |
| A0302006 | H-4355C | 5.500" Forged Chromoly "H" Beam Rod Set Chevy Journal |
| A0302007 | H-4356C | 5.600" Forged Chromoly "H" Beam Rod Set Chevy Journal |
| A0302008 | H-4357C | 5.700" Forged Chromoly "H" Beam Rod Set Chevy Journal |

F3



This is a Brand New Set of H-Beam Connecting Rods for the Early VW 36HP engines. These are 4340 forged Chromoly steel with high strength 3/8" Rod Bolts, and are one of the only upgrades for the 36HP. Great for any Classic enthusiast's and Bonneville racers. Available with both the 20mm or 22mm Pins giving you as many options as possible for your custom build.

Engine: Air Cooled VW Type 1 36HP Wrist Pin: 20 or 22mm  
Bolt Type: 200K or ARP 2000

| APS NO.  | OE NO.     | DESCAPTION                                   |
|----------|------------|--|
| A0302009 | H-4351VW B | 5.110" Forged Chromoly 36HP "H" Beam Rod Set |
| A0302010 | H-4351VW A | 5.110" Forged Chromoly 36HP "H" Beam Rod Set |





## OTHER CONNECTING ROD LIST

| SERIES                      | APS NO.  | ENGINE            | C-C LENGTH(inch) | B/E BORE (inch) | S/E BORE (inch) | BOLT (inch) |
|-----------------------------|----------|-------------------|------------------|-----------------|-----------------|-------------|
| CHEVY                       | A0314001 | Chevy 350 5.744"  | 5.744            | 2.168           | 0.867           | 7/16"       |
|                             | A0314002 | 5.850"            | 5.85             | 1.772           | 0.827           | 3/8"        |
|                             | A0314003 | 5.7"              | 5.701            | 2.125           | 0.827           | 3/8"        |
|                             | A0314004 | 5.9"              | 5.900            | 2.125           | 0.827           | 3/8"        |
|                             | A0314005 | 5.68"             | 5.680            | 2.125           | 0.827           | 3/8"        |
|                             | A0314006 | 5.5"              | 5.500            | 2.125           | 0.827           | 3/8"        |
|                             | A0314007 | 5.71              | 5.701            | 2.125           | 0.827           | 3/8"        |
|                             | A0314008 | NT159.5           | 6.280            | 2.225           | 0.906           | 7/16"       |
|                             | A0314009 | NT159.5           | 6.280            | 2.225           | 0.906           | 7/16"       |
|                             | A0314010 | NT161.97          | 6.377            | 2.225           | 0.906           | 7/16"       |
| CHEVROLET454<br>BIG BLOCK   | A0314011 | 6.135"            | 6.135            | 2.325           | 0.990           | 7/16"       |
|                             | A0314012 | 6.385"            | 6.385            | 2.325           | 0.990           | 7/16"       |
|                             | A0314013 | 6.535"            | 6.535            | 2.325           | 0.990           | 7/16"       |
|                             | A0314014 | 6.7"              | 6.700            | 2.319           | 1.039           | 7/16"       |
|                             | A0314015 | 6.8"              | 7.700            | 2.319           | 1.039           | 7/16"       |
|                             | A0314016 | 7.1"              | 7.100            | 2.319           | 1.039           | 7/16"       |
| CHEVROLET350<br>SMALL BLOCK | A0314017 | 6"                | 6.000            | 2.225           | 0.924           | 7/16"       |
|                             | A0314018 | 5.850"            | 5.850            | 2.225           | 0.927           | 7/16"       |
|                             | A0314019 | 6.125"            | 6.125            | 2.225           | 0.927           | 7/16"       |
|                             | A0314020 | 5.565"            | 5.565            | 2.225           | 0.927           | 7/16"       |
|                             | A0314021 | 5.7"              | 5.700            | 2.225           | 0.924           | 7/16"       |
|                             | A0314022 | 6.2"              | 6.200            | 2.225           | 0.924           | 7/16"       |
|                             | A0314023 | 6.25"             | 6.250            | 2.225           | 0.924           | 7/16"       |
|                             | A0314024 | 5.933"(4.6L)      | 5.933            | 2.239           | 0.866           | 3/8"        |
|                             | A0314025 | 6.658"(5.4L)      | 6.657            | 2.239           | 0.866           | 3/8"        |
|                             | A0314026 | 5.090"(302)       | 5.090            | 2.239           | 0.912           | 7/16"       |
|                             | A0314027 | 5.155"(302)       | 5.155            | 2.239           | 0.912           | 7/16"       |
|                             | A0314028 | 5.315"(302)       | 5.315            | 2.239           | 0.912           | 7/16"       |
|                             | A0314029 | 5.4"(302)         | 5.400            | 2.239           | 0.912           | 7/16"       |
|                             | A0314030 | 5.4"(302)         | 5.400            | 2.225           | 0.927           | 7/16"       |
|                             | A0314031 | 6.2"(351W)(GM350) | 6.200            | 2.237           | 0.913           | 3/8"        |

| SERIES              | APS NO.  | ENGINE             | C-C LENGTH(inch) | B/E BORE (inch) | S/E BORE (inch) | BOLT (inch) |
|---------------------|----------|--------------------|------------------|-----------------|-----------------|-------------|
| FORD<br>(Continued) | A0314032 | 6.605"(429/460)    | 6.605            | 2.625           | 1.040           | 7/16"       |
|                     | A0314033 | 6.800"(429/460)    | 6.800            | 2.625           | 1.040           | 7/16"       |
|                     | A0314034 | 5.956"(351W)       | 5.956            | 2.427           | 0.913           | 3/8"        |
|                     | A0314035 | Cosworth 136.5     | 5.374            | 2.165           | 0.945           | 3/8"        |
|                     | A0314036 | Cosworth 145       | 5.709            | 2.165           | 0.945           | 3/8"        |
|                     | A0314037 | BDA 5.230" B       | 5.230            | 2.083           | 0.813           | 3/8"        |
|                     | A0314038 | BDA 5.230" A       | 5.230            | 2.083           | 0.812           | 3/8"        |
|                     | A0314039 | 5.23"              | 5.230            | 2.083           | 0.813           | 3/8"        |
|                     | A0314040 | 4.826"             | 4.826            | 2.083           | 0.812           | 3/8"        |
|                     | A0314041 | 4.928"             | 4.928            | 2.083           | 0.813           | 3/8"        |
|                     | A0314042 | 5.33"              | 5.330            | 2.083           | 0.813           | 3/8"        |
|                     | A0314043 | 4.826"             | 5.230            | 2.083           | 0.812           | 5/16"       |
|                     | A0314044 | Duratec 2.0        | 5.758            | 1.970           | 0.828           | 3/8"        |
|                     | A0314045 | Duratec 2.0        | 5.758            | 1.970           | 0.828           | 3/8"        |
|                     | A0314046 | Duratec 2.0        | 5.758            | 1.970           | 0.828           | 3/8"        |
|                     | A0314047 | Duratec 2.0        | 5.758            | 1.969           | 0.828           | 3/8"        |
|                     | A0314048 | Duratec 2.0        | 5.394            | 1.770           | 0.866           | 3/8"        |
|                     | A0314049 | Duratec 2.0        | 6.309            | 1.970           | 0.828           | 3/8"        |
|                     | A0314050 | Duratec 2.0        | 5.758            | 1.970           | 0.828           | 3/8"        |
|                     | A0314051 | Duratec 2.0        | 5.984            | 1.970           | 0.828           | 3/8"        |
|                     | A0314052 | Duratec 2.3        | 6.094            | 2.088           | 0.827           | 3/8"        |
|                     | A0314053 | Duratec 2.3        | 5.571            | 2.088           | 0.827           | 3/8"        |
|                     | A0314054 | Duratec 2.3        | 5.440            | 2.087           | 0.827           | 3/8"        |
|                     | A0314055 | Duratec 3.0        | 5.440            | 2.087           | 0.827           | 3/8"        |
|                     | A0314056 | Cosworth 5.200"(L) | 5.201            | 2.008           | 0.811           | 5/16"       |
|                     | A0314057 | Duratec 5.768"(L)  | 5.768            | 1.976           | 0.835           | 3/8"        |
|                     | A0314058 | Lotus 4.926"(C)    | 4.926            | 2.083           | 0.813           | 3/8"        |
|                     | A0314059 | Lotus 5.230"       | 5.230            | 2.083           | 0.813           | 3/8"        |
|                     | A0314060 | Lotus 5.430"       | 5.430            | 2.083           | 0.813           | 3/8"        |
|                     | A0314061 | CRF-2A(cosworth)   | 5.256            | 2.165           | 0.945           | 3/8"        |
|                     | A0314062 | 5.4"               | 5.433            | 2.165           | 0.866           | 3/8"        |
| A0314063            | 5.374"   | 5.374              | 2.165            | 0.866           | 3/8"            |             |
| A0314064            | 5.374"   | 5.709              | 2.165            | 0.866           | 3/8"            |             |



| SERIES              | APS NO.             | ENGINE              | C-C LENGTH(inch) | B/E BORE (inch) | S/E BORE (inch) | BOLT (inch) |
|---------------------|---------------------|---------------------|------------------|-----------------|-----------------|-------------|
| FORD<br>(Continued) | A0314065            | 5.374"              | 5.709            | 2.165           | 0.945           | 3/8"        |
|                     | A0314066            | 5.374"              | 5.709            | 2.165           | 0.927           | 3/8"        |
|                     | A0314067            | 5.512"              | 5.512            | 2.083           | 0.866           | 3/8"        |
|                     | A0314068            | Lotus4.926"         | 4.926            | 2.083           | 0.813           | 3/8"        |
|                     | A0314069            | Lotus 129           | 5.079            | 2.083           | 0.814           | 3/8"        |
|                     | A0314070            | Lotus 5.100"        | 5.100            | 2.083           | 0.813           | 3/8"        |
|                     | A0314071            | 4.626"              | 4.626            | 2.083           | 0.813           | 3/8"        |
|                     | A0314072            | 4.526"              | 4.524            | 2.083           | 0.813           | 3/8"        |
|                     | A0314073            | Lotus 5.100"        | 5.100            | 2.083           | 0.813           | 3/8"        |
|                     | A0314074            | 4.926"              | 4.925            | 2.083           | 0.813           | 3/8"        |
|                     | A0314075            | 5.100"              | 5.100            | 2.083           | 0.813           | 3/8"        |
|                     | A0314076            | 5.354"              | 5.354            | 2.083           | 0.866           | 3/8"        |
|                     | A0314077            | 4.526"              | 4.526            | 2.083           | 0.813           | 3/8"        |
|                     | A0314078            | 5.323"              | 5.230            | 2.083           | 0.813           | 3/8"        |
|                     | A0314079            | 5.330"              | 4.926            | 2.083           | 0.788           | 3/8"        |
|                     | A0314080            | 5.323"              | 5.230            | 2.083           | 0.812           | 3/8"        |
|                     | A0314081            | Lotus               | 4.426            | 2.083           | 0.813           | 3/8"        |
|                     | A0314082            | 5.430"              | 5.430            | 2.083           | 0.813           | 3/8"        |
|                     | A0314083            | 5.200"              | 5.197            | 2.004           | 0.812           | 5/16"       |
|                     | A0314084            | 5.200" UK-B         | 5.197            | 2.004           | 0.812           | 5/16"       |
|                     | A0314085            | 5.200"              | 5.197            | 2.004           | 0.812           | 5/16"       |
|                     | A0314086            | 5.230"              | 5.230            | 2.083           | 0.812           | 3/8"        |
|                     | A0314087            | 5.230"              | 5.230            | 2.083           | 0.813           | 3/8"        |
|                     | A0314088            | 4.426"              | 5.230            | 2.083           | 0.813           | 3/8"        |
|                     | A0314089            | 4.526"              | 5.378            | 2.083           | 0.827           | 3/8"        |
|                     | A0314090            | 5.230"              | 5.230            | 2.083           | 0.812           | 3/8"        |
|                     | A0314091            | 5.230"              | 5.230            | 1.890           | 0.812           | 3/8"        |
|                     | A0314092            | 5.400"              | 5.400            | 2.083           | 0.812           | 3/8"        |
|                     | A0314093            | 4.926"              | 4.926            | 2.083           | 0.812           | 3/8"        |
|                     | A0314094            | 5.100"              | 5.100            | 2.083           | 0.812           | 3/8"        |
|                     | A0314095            | Cosworth            | 4.928            | 2.083           | 0.812           | 3/8"        |
|                     | A0314096            | Lotus 1600 twin cam | 4.826            | 2.083           | 0.813           | 3/8"        |
| A0314097            | Lotus 1600 twin cam | 4.826               | 2.083            | 0.813           | 3/8"            |             |

| SERIES              | APS NO.     | ENGINE               | C-C LENGTH(inch) | B/E BORE (inch) | S/E BORE (inch) | BOLT (inch) |
|---------------------|-------------|----------------------|------------------|-----------------|-----------------|-------------|
| FORD<br>(Continued) | A0314098    | Lotus 1600 Twin Cam  | 4.826            | 2.083           | 0.813           | 3/8"        |
|                     | A0314099    | Lotus 1600 Twin Cam  | 4.826            | 2.083           | 0.813           | 3/8"        |
|                     | A0314100    | Lotus 1600 Twin Cam  | 4.789            | 2.083           | 0.813           | 3/8"        |
|                     | A0314101    | 5.758"               | 5.758            | 1.969           | 0.828           | 3/8"        |
|                     | A0314102    | 4.826"               | 4.826            | 2.083           | 0.812           | 3/8"        |
|                     | A0314103    | RSR2000              | 5.876            | 2.122           | 0.827           | 3/8"        |
|                     | A0314104    | RSR2000              | 5.876            | 2.122           | 0.812           | 3/8"        |
|                     | A0314105    | RSR2000              | 5.876            | 2.122           | 0.827           | 3/8"        |
|                     | A0314106    | JLR139               | 5.472            | 2.083           | 0.814           | 3/8"        |
|                     | A0314107    | JLR130               | 5.118            | 2.083           | 0.814           | 3/8"        |
|                     | A0314108    | JLR132.5             | 5.217            | 2.083           | 0.814           | 3/8"        |
|                     | A0314109    | JLR125.5             | 4.941            | 2.083           | 0.814           | 3/8"        |
|                     | A0314110    | G0025                | 4.926            | 2.083           | 0.812           | 3/8"        |
|                     | A0314111    | CC134mm I-Beam       | 5.276            | 2.166           | 0.866           | 3/8"        |
|                     | A0314112    | 5.807"               | 5.807            | 2.047           | 0.748           | 3/8"        |
|                     | A0314113    | V6                   | 5.157            | 2.237           | 0.945           | 3/8"        |
|                     | A0314114    | V6 5.736"            | 6.091            | 2.237           | 0.866           | 3/8"        |
|                     | A0314115    | V6 5.906"            | 5.906            | 2.237           | 0.906           | 3/8"        |
|                     | A0314116    | AU001                | 5.879            | 2.238           | 0.866           | 3/8"        |
|                     | A0314117    | AU001                | 5.879            | 2.238           | 0.906           | 3/8"        |
|                     | A0314118    | BA001                | 6.055            | 2.236           | 0.867           | 3/8"        |
|                     | A0314119    | BA001                | 6.055            | 2.125           | 0.925           | 7/16"       |
|                     | A0314120    | BA001                | 6.055            | 2.237           | 0.867           | 3/8"        |
|                     | A0314121    | 5.4L001              | 6.656            | 2.238           | 0.867           | 3/8"        |
|                     | A0314122    | CR-145-51.3-22-22-22 | 5.709            | 2.020           | 0.866           | 3/8"        |
|                     | A0314123    | Escort RS            | 5.197            | 2.004           | 0.827           | 5/16"       |
|                     | A0314124    | G0019                | 5.543            | 1.965           | 0.812           | 3/8"        |
|                     | A0314125    | \                    | 5.48             | 1.965           | 0.787           | \           |
|                     | A0314126    | G0019A               | 5.543            | 1.965           | 0.812           | 3/8"        |
|                     | A0314127    | Ford Lotus 2.2L      | 5.512            | 2.146           | 1.004           | 3/8"        |
|                     | A0314128    | B18A 5.394"          | 5.394            | 1.890           | 0.827           | 3/8"        |
|                     | A0314129    | B18A 5.394"          | 5.394            | 1.890           | 0.827           | 3/8"        |
| A0314130            | B18A 5.394" | 5.394                | 1.890            | 0.827           | 3/8"            |             |



| SERIES                     | APS NO.  | ENGINE              | C-C LENGTH(inch) | B/E BORE (inch) | S/E BORE (inch) | BOLT (inch) |
|----------------------------|----------|---------------------|------------------|-----------------|-----------------|-------------|
| <b>FORD</b><br>(Continued) | A0314131 | B18A 5.394"         | 5.512            | 1.890           | 0.827           | 3/8"        |
|                            | A0314132 | B18A 5.394"         | 5.669            | 1.890           | 0.827           | 3/8"        |
|                            | A0314133 | B18C/GSR 5.433"     | 5.43             | 1.890           | 0.827           | 3/8"        |
|                            | A0314134 | B18C(U)             | 5.429            | 1.890           | 0.827           | 3/8"        |
| <b>HONDA</b>               | A0314135 | B18C/GSR            | 5.748            | 1.890           | 0.813           | 3/8"        |
|                            | A0314136 | B18C/GSR 5.433"     | 5.429            | 1.890           | 0.827           | 3/8"        |
|                            | A0314137 | B18C/GSR 5.433"     | 5.429            | 1.890           | 0.827           | 3/8"        |
|                            | A0314138 | B18C/GSR 5.433"(al) | 5.429            | 1.890           | 0.827           | 3/8"        |
|                            | A0314139 | B18C/GSR 5.433"(al) | 5.429            | 1.890           | 0.827           | 7/16"       |
|                            | A0314140 | B18C/GSR 5.433"     | 5.429            | 1.890           | 0.827           | 3/8"        |
|                            | A0314141 | B18C/GSR            | 5.443            | 1.890           | 0.787           | 3/8"        |
|                            | A0314142 | B18C/GSR 5.433"(al) | 5.429            | 1.890           | 0.827           | 3/8"        |
|                            | A0314143 | B18C/GSR            | 5.600            | 1.890           | 0.827           | 3/8"        |
|                            | A0314144 | CRS-5510            | 5.433            | 1.890           | 0.827           | 3/8"        |
|                            | A0314145 | B16A 5.290"         | 5.29             | 1.890           | 0.827           | 3/8"        |
|                            | A0314146 | B16A 5.290"         | 5.591            | 1.890           | 0.827           | 3/8"        |
|                            | A0314147 | B16A 5.290"         | 5.290            | 1.890           | 0.827           | 3/8"        |
|                            | A0314148 | B16A 5.290"         | 5.591            | 1.890           | 0.827           | 3/8"        |
|                            | A0314149 | K20 5.464"          | 5.472            | 2.008           | 0.866           | 3/8"        |
|                            | A0314150 | K20 5.464"(I)       | 5.473            | 1.890           | 0.866           | 3/8"        |
|                            | A0314151 | H22 5.485"          | 5.485            | 1.890           | 0.827           | 3/8"        |
|                            | A0314152 | D16 5.394"          | 5.394            | 1.890           | 0.748           | 3/8"        |
|                            | A0314153 | D6-i                | 5.458            | 1.890           | 0.748           | 3/8"        |
|                            | A0314154 | D16 5.394"          | 5.394            | 1.890           | 0.748           | 5/16"       |
|                            | A0314155 | D16 5.394"          | 5.394            | 1.890           | 0.748           | 3/8"        |
|                            | A0314156 | D16 5.394"          | 5.394            | 1.890           | 0.827           | 3/8"        |
|                            | A0314157 | D16                 | 5.335            | 1.890           | 0.748           | 3/8"        |
|                            | A0314158 | D16                 | 5.370            | 1.890           | 0.748           | 3/8"        |
|                            | A0314159 | D16                 | 5.458            | 1.890           | 0.748           | 3/8"        |
|                            | A0314160 | D16-i               | 5.370            | 1.890           | 0.748           | 3/8"        |
|                            | A0314161 | H22 5.636"          | 5.650            | 2.008           | 0.867           | 3/8"        |
|                            | A0314162 | H22 5.636"          | 5.636            | 2.008           | 0.867           | 3/8"        |
|                            | A0314163 | H22 5.636"          | 5.571            | 2.008           | 0.826           | 3/8"        |

| SERIES                      | APS NO.       | ENGINE          | C-C LENGTH(inch) | B/E BORE (inch) | S/E BORE (inch) | BOLT (inch) |       |
|-----------------------------|---------------|-----------------|------------------|-----------------|-----------------|-------------|-------|
| <b>HONDA</b><br>(Continued) | A0314164      | F20C 6.024"     | 6.024            | 2.008           | 0.866           | 3/8"        |       |
|                             | A0314165      | F20             | 6.024            | 2.008           | 0.906           | 3/8"        |       |
|                             | A0314166      | F20B (I)        | 5.709            | 1.890           | 0.866           | 3/8"        |       |
|                             | A0314167      | CC153-F20       | 5.551            | 1.890           | 0.866           | 3/8"        |       |
|                             | A0314168      | H23/B20A/F22    | 5.581            | 2.008           | 0.866           | 3/8"        |       |
|                             | A0314169      | H23/B20A/F22    | 5.571            | 2.008           | 0.865           | 3/8"        |       |
|                             | A0314170      | H23/B20A/F22    | 5.700            | 2.008           | 0.866           | 3/8"        |       |
|                             | A0314171      | H23/B20A/F22    | 5.588            | 2.009           | 0.867           | 3/8"        |       |
|                             | A0314172      | K24A            | 5.984            | 2.008           | 0.866           | 3/8"        |       |
|                             | A0314173      | K24A-I          | 5.984            | 2.008           | 0.866           | 3/8"        |       |
|                             | A0314174      | K24A            | 5.984            | 2.008           | 0.866           | 3/8"        |       |
|                             | A0314175      | D15B2 5.295"(L) | 5.295            | 1.772           | 0.748           | 5/16"       |       |
|                             | A0314176      | D15B2 5.295"-I  | 5.370            | 1.890           | 0.748           | 3/8"        |       |
|                             | A0314177      | D15B2 5.295"-H  | 5.370            | 1.772           | 0.748           | 5/16"       |       |
|                             | A0314178      | D15B2 5.295"(L) | 6.050            | 1.772           | 0.750           | 5/16"       |       |
|                             | A0314179      | D15B2 5.295"-I  | 5.370            | 1.772           | 0.748           | 5/16"       |       |
|                             | A0314180      | D15B2 5.295"    | 5.370            | 1.772           | 0.748           | 3/8"        |       |
|                             | A0314181      | D15B2 5.295"(L) | 5.295            | 1.772           | 0.750           | 3/8"        |       |
|                             | A0314182      | 5.405"          | 5.405            | 1.890           | 0.866           | 3/8"        |       |
|                             | A0314183      | 5.405"          | 5.405            | 1.890           | 0.866           | 3/8"        |       |
|                             | A0314184      | 5.700"          | 5.700            | 1.890           | 0.866           | 3/8"        |       |
|                             | A0314185      | 6.050"          | 6.050            | 1.890           | 0.866           | 3/8"        |       |
|                             | A0314186      | 6.050"          | 6.050            | 1.890           | 0.748           | 3/8"        |       |
|                             | A0314187      | 6.050"          | 6.050            | 1.890           | 0.866           | 3/8"        |       |
|                             | A0314188      | 6.050"          | 6.050            | 1.890           | 0.827           | 3/8"        |       |
|                             | A0314189      | B18C-2          | 5.665            | 1.890           | 0.709           | 5/16"       |       |
|                             | A0314190      | 1.6CC           | 5.394            | 1.890           | 0.827           | 3/8"        |       |
|                             | A0314191      | CC140.4847      | 5.531            | 1.890           | 0.827           | 3/8"        |       |
|                             | A0314192      | K124            | 4.882            | 1.890           | 0.787           | 3/8"        |       |
|                             | A0314193      | CC149           | 5.866            | 1.693           | 0.709           | 5/16"       |       |
|                             | A0314194      | CC149           | 5.866            | 1.693           | 0.709           | 3/8"        |       |
|                             | A0314195      | I               | 5.551            | 1.890           | 0.866           | 5/16"       |       |
|                             | <b>TOYOTA</b> | A0314196        | 3TC              | 4.843           | 2.008           | 0.827       | 5/16" |



| SERIES                | APS NO.       | ENGINE           | C-C LENGTH(inch) | B/E BORE (inch) | S/E BORE (inch) | BOLT (inch) |
|-----------------------|---------------|------------------|------------------|-----------------|-----------------|-------------|
| TOYOTA<br>(Continued) | A0314197      | CC154mm(4.5L)    | 6.063            | 2.386           | 1.024           | 7/16"       |
|                       | A0314198      | CC154mm(4.5L)AI  | 6.063            | 2.386           | 1.024           | 7/16"       |
|                       | A0314199      | CC148.5mm(4.5L)  | 5.846            | 2.386           | 1.024           | 7/16"       |
|                       | A0314200      | CC154mm(4.5L)I   | 6.063            | 2.386           | 1.024           | 7/16"       |
|                       | A0314201      | CC176.1mm(4.5L)I | 6.933            | 2.382           | 0.906           | 7/16"       |
|                       | A0314202      | 4AG-2            | 4.803            | 1.772           | 0.788           | 5/16"       |
|                       | A0314203      | 4AG-2            | 4.803            | 1.772           | 0.788           | 3/8"        |
|                       | A0314204      | 4AG-2            | 5.378            | 1.772           | 0.788           | 3/8"        |
|                       | A0314205      | 4AG-2            | 5.285            | 1.772           | 0.748           | 3/8"        |
|                       | A0314206      | 4AG-2            | 4.921            | 1.772           | 0.788           | 3/8"        |
|                       | A0314207      | 4AG-2            | 5.378            | 1.772           | 0.788           | 3/8"        |
|                       | A0314208      | 4AG-2            | 5.484            | 1.772           | 0.788           | 3/8"        |
|                       | A0314209      | 4AG-2            | 5.476            | 1.772           | 0.788           | 3/8"        |
|                       | A0314210      | 2TG              | 4.843            | 2.008           | 0.866           | 5/16"       |
|                       | A0314211      | 2TG              | 5.138            | 1.811           | 0.709           | 5/16"       |
|                       | A0314212      | 2TG              | 5.886            | 2.008           | 0.866           | 5/16"       |
|                       | A0314213      | 2TG              | 4.936            | 1.811           | 0.747           | 5/16"       |
|                       | A0314214      | 5E               | 5.138            | 1.811           | 0.709           | 3/8"        |
|                       | A0314215      | 5E               | 5.138            | 1.811           | 0.709           | 5/16"       |
|                       | A0314216      | 5E-I Beam        | 5.138            | 1.811           | 0.709           | 3/8"        |
|                       | A0314217      | CR-134.5         | 5.295            | 1.811           | 0.748           | 5/16"       |
|                       | A0314218      | 5E               | 5.138            | 1.811           | 0.709           | 3/8"        |
|                       | A0314219      | 5E               | 5.138            | 1.811           | 0.709           | 3/8"        |
|                       | A0314220      | 5E               | 5.204            | 1.811           | 0.748           | 3/8"        |
|                       | A0314221      | 5E               | 5.600            | 1.811           | 0.709           | 3/8"        |
|                       | A0314222      | I                | 5.833            | 1.811           | 0.787           | 3/8"        |
|                       | A0314223      | CRT-1(4E-FTE)    | 4.646            | 1.693           | 0.709           | 5/16"       |
|                       | A0314224      | CRT-1(4E-FTE)    | 4.646            | 1.693           | 0.709           | 5/16"       |
|                       | A0314225      | CRT-1(4E-FTE)    | 4.646            | 1.693           | 0.709           | 5/16"       |
| A0314226              | CRT-1(4E-FTE) | 5.138            | 1.693            | 0.709           | 5/16"           |             |
| A0314227              | CRT-1(4E-FTE) | 5.157            | 1.693            | 0.709           | 5/16"           |             |
| A0314228              | CRT-1(4E-FTE) | 4.665            | 1.693            | 0.709           | 5/16"           |             |
| A0314229              | CRT-1(4E-FTE) | 5.463            | 1.693            | 0.700           | 5/16"           |             |

| SERIES                | APS NO.  | ENGINE        | C-C LENGTH(inch) | B/E BORE (inch) | S/E BORE (inch) | BOLT (inch) |
|-----------------------|----------|---------------|------------------|-----------------|-----------------|-------------|
| TOYOTA<br>(Continued) | A0314230 | CRT-1(4E-FTE) | 5.098            | 1.693           | 0.709           | 5/16"       |
|                       | A0314231 | CRT-1(4E-FTE) | 5.157            | 1.693           | 0.709           | 5/16"       |
|                       | A0314232 | CRT-1(4E-FTE) | 4.665            | 1.693           | 0.788           | 5/16"       |
|                       | A0314233 | 4AGD          | 4.803            | 1.693           | 0.787           | 5/16"       |
|                       | A0314234 | 4AGD          | 4.803            | 1.693           | 0.787           | 3/8"        |
|                       | A0314235 | 4AGE          | 4.803            | 1.772           | 0.788           | 5/16"       |
|                       | A0314236 | 4AGE          | 4.803            | 1.772           | 0.787           | 3/8"        |
|                       | A0314237 | CR-TS-126.8   | 4.992            | 1.772           | 0.788           | 3/8"        |
|                       | A0314238 | 4AGD          | 5.669            | 1.772           | 0.787           | 3/8"        |
|                       | A0314239 | 4AGD-I        | 4.724            | 1.772           | 0.748           | 3/8"        |
|                       | A0314240 | 4AGD          | 5.335            | 1.772           | 0.788           | 3/8"        |
|                       | A0314241 | 4AGD          | 5.197            | 1.772           | 0.709           | 3/8"        |
|                       | A0314242 | 4AGD          | 5.551            | 1.772           | 0.787           | 3/8"        |
|                       | A0314243 | 4AGD          | 5.000            | 1.772           | 0.788           | 3/8"        |
|                       | A0314244 | 4AGD          | 5.669            | 1.772           | 0.709           | 3/8"        |
|                       | A0314245 | 4AGC          | 4.803            | 1.772           | 0.788           | 5/16"       |
|                       | A0314246 | CC146.7       | 5.776            | 1.850           | 0.788           | 5/16"       |
|                       | A0314247 | I             | 5.768            | 1.850           | 0.788           | 5/16"       |
|                       | A0314248 | I             | 5.965            | 1.850           | 0.788           | 5/16"       |
|                       | A0314249 | CC146.7-I     | 5.776            | 1.850           | 0.788           | 5/16"       |
|                       | A0314250 | CC134.5       | 5.295            | 1.850           | 0.788           | 3/8"        |
|                       | A0314251 | I             | 5.315            | 1.850           | 0.788           | 3/8"        |
|                       | A0314252 | CC134.5-I     | 5.295            | 1.850           | 0.788           | 3/8"        |
|                       | A0314253 | CC146         | 5.748            | 1.850           | 0.788           | 3/8"        |
|                       | A0314254 | I             | 5.768            | 1.851           | 0.788           | 3/8"        |
|                       | A0314255 | I             | 5.768            | 1.851           | 0.788           | 3/8"        |
|                       | A0314256 | I             | 5.768            | 1.851           | 0.788           | 5/16"       |
|                       | A0314257 | 5.508"        | 5.508            | 1.837           | 0.709           | 5/16"       |
|                       | A0314258 | I             | 5.496            | 1.772           | 0.709           | 5/16"       |
|                       | A0314259 | CC139.9       | 5.508            | 1.837           | 0.709           | 5/16"       |
|                       | A0314260 | CC150.5       | 5.925            | 2.047           | 0.788           | 3/8"        |
|                       | A0314261 | CC105MM       | 4.134            | 1.772           | 0.689           | 5/16"       |
| A0314262              | 5.390"   | 5.39          | 2.205            | 0.945           | 3/8"            |             |



| SERIES                | APS NO.  | ENGINE            | C-C LENGTH(inch) | B/E BORE (inch) | S/E BORE (inch) | BOLT (inch) |
|-----------------------|----------|-------------------|------------------|-----------------|-----------------|-------------|
| TOYOTA<br>(Continued) | A0314263 | 5.394"            | 5.394            | 2.205           | 0.945           | 3/8"        |
|                       | A0314264 | 5.988"            | 5.988            | 2.205           | 1.063           | 3/8"        |
|                       | A0314265 | 1JZ4TG            | 4.929            | 2.165           | 0.867           | 3/8"        |
|                       | A0314266 | 1                 | 4.931            | 2.167           | 0.867           | 3/8"        |
|                       | A0314267 | 1JZ4TG            | 5.394            | 2.165           | 0.866           | 3/8"        |
|                       | A0314268 | 2TC/3TC 4.850"    | 4.850            | 1.890           | 0.865           | 5/16"       |
|                       | A0314269 | Supra 7MGTE 152   | 5.984            | 2.165           | 0.867           | 3/8"        |
|                       | A0314270 | Supra             | 5.984            | 2.008           | 0.867           | 3/8"        |
|                       | A0314271 | Supra 7MGTE 152   | 5.984            | 2.165           | 0.867           | 3/8"        |
|                       | A0314272 | 1                 | 5.984            | 2.166           | 0.866           | 3/8"        |
|                       | A0314273 | Supra 7MGTE 149   | 5.866            | 2.165           | 0.867           | 3/8"        |
|                       | A0314274 | Supra 7MGTE 157   | 6.181            | 2.165           | 0.867           | 3/8"        |
|                       | A0314275 | Supra 7MGTE 152-I | 5.984            | 2.165           | 0.867           | 3/8"        |
|                       | A0314276 | 1                 | 5.984            | 2.165           | 0.984           | 3/8"        |
|                       | A0314277 | 2AZ-FE 5.886"     | 5.886            | 2.008           | 0.866           | 3/8"        |
|                       | A0314278 | Toyota small rod  | 5.547            | 1.693           | 0.709           | 5/16"       |
|                       | A0314279 | Toyota small rod  | 5.547            | 1.693           | 0.709           | 3/8"        |
|                       | A0314280 | Toyota 1N2        | 5.547            | 1.693           | 0.748           | 5/16"       |
|                       | A0314281 | Toyota 2N2        | 5.098            | 1.693           | 0.748           | 5/16"       |
|                       | A0314282 | TOYOTA 1FZ        | 6.841            | 2.057           | 0.906           | 3/8"        |
|                       | A0314283 | TOYOTA 1FZ        | 6.486            | 2.057           | 0.906           | 3/8"        |
|                       | A0314284 | TOYOTA 1FZ        | 6.063            | 2.057           | 0.906           | 3/8"        |
|                       | A0314285 | 4E                | 4.646            | 1.693           | 0.709           | 5/16"       |
|                       | A0314286 | 7AEF              | 5.217            | 2.008           | 0.788           | 3/8"        |
|                       | A0314287 | CELICA 2.0L       | 4.823            | 2.031           | 0.827           | 3/8"        |
|                       | A0314288 | CC146             | 5.748            | 2.165           | 0.866           | 3/8"        |
| A0314289              | CC146    | 5.748             | 2.165            | 0.866           | 7/16"           |             |
| SUBARU                | A0314290 | A-161(EJ18/20/22) | 5.136            | 2.165           | 0.906           | 3/8"        |
|                       | A0314291 | EJ18/20/22-I      | 5.138            | 2.165           | 0.906           | 3/8"        |
|                       | A0314292 | EJ18/20/22(AL)    | 5.136            | 2.165           | 0.906           | 3/8"        |
|                       | A0314293 | (EJ18/20/22)      | 5.136            | 2.165           | 0.906           | 3/8"        |
|                       | A0314294 | EJ18/20/22-I      | 5.141            | 2.165           | 0.905           | 3/8"        |
|                       | A0314295 | A-161(EJ18/20/22) | 5.136            | 2.047           | 0.906           | 3/8"        |

| SERIES                | APS NO.  | ENGINE              | C-C LENGTH(inch) | B/E BORE (inch) | S/E BORE (inch) | BOLT (inch) |
|-----------------------|----------|---------------------|------------------|-----------------|-----------------|-------------|
| SUBARU<br>(Continued) | A0314296 | EJ18/20/22-I        | 5.059            | 2.165           | 0.906           | 3/8"        |
|                       | A0314297 | A-161(EJ18/20/22)   | 5.177            | 2.165           | 0.866           | 3/8"        |
|                       | A0314298 | SUBARU EZ30         | 5.18             | 2.165           | 0.866           | 3/8"        |
|                       | A0314299 | A-161(EJ18/20/22)   | 5.217            | 2.047           | 0.906           | 3/8"        |
|                       | A0314300 | A-161(EJ18/20/22)   | 5.136            | 2.165           | 0.906           | 3/8"        |
|                       | A0314301 | A-161(EJ18/20/22)   | 5.138            | 2.047           | 0.906           | 3/8"        |
|                       | A0314302 | A-161(EJ18/20/22)   | 5.217            | 2.165           | 0.906           | 3/8"        |
|                       | A0314303 | A-161(EJ18/20/22)-I | 5.217            | 2.165           | 0.906           | 3/8"        |
|                       | A0314304 | A-161(EJ18/20/22)   | 5.136            | 2.165           | 0.906           | 7/16"       |
|                       | A0314305 | A-161(EJ18/20/22)   | 5.126            | 2.165           | 0.906           | 3/8"        |
|                       | A0314306 | A-161(EJ18/20/22)   | 5.138            | 2.165           | 0.906           | 3/8"        |
|                       | A0314307 | 5.187"(L)           | 5.18             | 2.165           | 0.906           | 3/8"        |
|                       | A0314308 | G0013               | 5.096            | 2.166           | 0.906           | 3/8"        |
|                       | A0314309 | 15-01-G0012         | 5.136            | 2.166           | 0.906           | 3/8"        |
|                       | \        | A0315001            | 1                | 5.050           | 2.165           | 0.945       |
| A0315002              |          | 1                   | 5.090            | 2.239           | 0.913           | 7/16"       |
| A0315003              |          | 1                   | 5.155            | 2.239           | 0.913           | 7/16"       |
| A0315004              |          | 1                   | 5.315            | 2.239           | 0.913           | 7/16"       |
| A0315005              |          | 1                   | 5.400            | 2.239           | 0.928           | 7/16"       |
| A0315006              |          | 1                   | 5.315            | 2.225           | 0.928           | 7/16"       |
| A0315007              |          | 1                   | 5.400            | 2.225           | 0.928           | 7/16"       |
| A0315008              |          | 1                   | 6.200            | 2.225           | 0.928           | 7/16"       |
| A0315009              |          | 1                   | 6.200            | 2.225           | 0.913           | 7/16"       |
| A0315010              |          | 1                   | 5.565            | 2.225           | 0.928           | 7/16"       |
| A0315011              |          | 1                   | 5.700            | 2.225           | 0.928           | 7/16"       |
| A0315012              |          | 1                   | 6.000            | 2.225           | 0.928           | 7/16"       |
| A0315013              |          | 1                   | 6.125            | 2.225           | 0.928           | 7/16"       |
| A0315014              |          | 1                   | 6.250            | 2.225           | 0.928           | 7/16"       |
| A0315015              |          | 1                   | 5.700            | 2.125           | 0.928           | 7/16"       |
| A0315016              |          | 1                   | 6.000            | 2.125           | 0.928           | 7/16"       |
| A0315017              |          | 1                   | 6.135            | 2.325           | 0.991           | 7/16"       |
| A0315018              |          | 1                   | 6.385            | 2.325           | 0.991           | 7/16"       |
| A0315019              |          | 1                   | 6.405            | 2.325           | 0.991           | 7/16"       |



| SERIES | APS NO.  | ENGINE | C-C LENGTH(inch) | B/E BORE (inch) | S/E BORE (inch) | BOLT (inch) |
|--------|----------|--------|------------------|-----------------|-----------------|-------------|
| \      | A0315020 | \      | 6.535            | 2.325           | 0.991           | 7/16"       |
| \      | A0315021 | \      | 6.635            | 2.325           | 0.991           | 7/16"       |
| \      | A0315022 | \      | 6.700            | 2.325           | 0.991           | 7/16"       |
| \      | A0315023 | \      | 6.800            | 2.325           | 0.991           | 7/16"       |
| \      | A0315024 | \      | 6.900            | 2.325           | 0.991           | 7/16"       |
| \      | A0315025 | \      | 7.100            | 2.325           | 0.991           | 7/16"       |
| \      | A0315026 | \      | 5.956            | 2.426           | 0.913           | 7/16"       |
| \      | A0315027 | \      | 6.200            | 2.426           | 0.913           | 7/16"       |
| \      | A0315028 | \      | 5.915            | 2.427           | 0.913           | 7/16"       |
| \      | A0315029 | \      | 6.605            | 2.652           | 1.041           | 7/16"       |
| \      | A0315030 | \      | 6.800            | 2.652           | 1.041           | 7/16"       |
| \      | A0315031 | \      | 6.625            | 2.374           | 0.981           | 7/16"       |
| \      | A0315032 | \      | 6.625            | 2.374           | 0.978           | 7/16"       |
| \      | A0315033 | \      | 6.760            | 2.500           | 1.095           | 7/16"       |
| \      | A0315034 | \      | 6.760            | 2.500           | 0.99            | 7/16"       |
| \      | A0315035 | \      | 6.900            | 2.500           | 0.991           | 7/16"       |
| \      | A0315036 | \      | 6.123            | 2.250           | 0.985           | 7/16"       |
| \      | A0315037 | \      | 6.735            | 2.625           | 0.981           | 7/16"       |
| \      | A0315038 | \      | 7.000            | 2.125           | 0.750           | 3/8"        |
| \      | A0315039 | \      | 5.858            | 2.374           | 1.001           | 7/16"       |
| \      | A0315040 | \      | 5.933            | 2.239           | 0.867           | 7/16"       |
| \      | A0315041 | \      | 6.183            | 2.239           | 0.867           | 7/16"       |
| \      | A0315042 | \      | 6.657            | 2.239           | 0.867           | 7/16"       |
| \      | A0315043 | \      | 6.907            | 2.239           | 0.867           | 7/16"       |
| \      | A0315044 | \      | 6.098            | 2.224           | 0.945           | 7/16"       |
| \      | A0315045 | \      | 6.348            | 2.224           | 0.945           | 7/16"       |
| \      | A0315046 | \      | 6.500            | 2.250           | 0.928           | 7/16"       |
| \      | A0315047 | \      | 5.965            | 2.374           | 0.940           | 7/16"       |
| \      | A0315048 | \      | 4.783            | 2.008           | 0.827           | 3/8"        |
| \      | A0315049 | \      | 4.705            | 2.047           | 0.827           | 3/8"        |
| \      | A0315050 | \      | 5.366            | 2.087           | 0.866           | 3/8"        |
| \      | A0315051 | \      | 5.138            | 2.165           | 0.906           | 3/8"        |
| \      | A0315052 | \      | 5.217            | 2.165           | 0.906           | 3/8"        |

| SERIES | APS NO.  | ENGINE | C-C LENGTH(inch) | B/E BORE (inch) | S/E BORE (inch) | BOLT (inch) |
|--------|----------|--------|------------------|-----------------|-----------------|-------------|
| \      | A0315053 | \      | 5.677            | 2.165           | 0.866           | 3/8"        |
| \      | A0315054 | \      | 5.906            | 1.890           | 0.866           | 3/8"        |
| \      | A0315055 | \      | 5.787            | 1.890           | 0.866           | 3/8"        |
| \      | A0315056 | \      | 4.803            | 1.772           | 0.787           | 3/8"        |
| \      | A0315057 | \      | 5.591            | 2.165           | 0.866           | 3/8"        |
| \      | A0315058 | \      | 4.644            | 1.693           | 0.709           | 3/8"        |
| \      | A0315059 | \      | 4.804            | 1.693           | 0.709           | 3/8"        |
| \      | A0315060 | \      | 5.060            | 1.914           | 0.866           | 3/8"        |
| \      | A0315061 | \      | 5.250            | 1.915           | 0.709           | 3/8"        |
| \      | A0315062 | \      | 5.136            | 2.165           | 0.906           | 3/8"        |
| \      | A0315063 | \      | 5.230            | 1.890           | 0.788           | 3/8"        |
| \      | A0315064 | \      | 5.290            | 1.890           | 0.827           | 3/8"        |
| \      | A0315065 | \      | 5.394            | 1.890           | 0.748           | 3/8"        |
| \      | A0315066 | \      | 5.405            | 1.890           | 0.788           | 3/8"        |
| \      | A0315067 | \      | 5.430            | 1.890           | 0.827           | 3/8"        |
| \      | A0315068 | \      | 5.510            | 1.890           | 0.867           | 3/8"        |
| \      | A0315069 | \      | 5.905            | 1.890           | 0.867           | 3/8"        |
| \      | A0315070 | \      | 5.355            | 2.008           | 0.827           | 3/8"        |
| \      | A0315071 | \      | 5.424            | 2.008           | 0.867           | 3/8"        |
| \      | A0315072 | \      | 5.588            | 2.000           | 0.867           | 3/8"        |
| \      | A0315073 | \      | 5.63             | 2.000           | 0.867           | 3/8"        |
| \      | A0315074 | \      | 5.669            | 1.992           | 0.788           | 3/8"        |
| \      | A0315075 | \      | 5.82             | 1.992           | 0.867           | 3/8"        |
| \      | A0315076 | \      | 6.070            | 2.087           | 0.827           | 7/16"       |
| \      | A0315077 | \      | 6.496            | 2.087           | 0.827           | 7/16"       |
| \      | A0315078 | \      | 6.074            | 2.383           | 1.024           | 7/16"       |
| \      | A0315079 | \      | 7.566            | 2.236           | 0.991           | 7/16"       |
| \      | A0315080 | \      | 6.385            | 2.325           | 0.99            | 7/16"       |
| \      | A0315081 | \      | 6.535            | 2.325           | 0.99            | 7/16"       |
| \      | A0315082 | \      | 6.700            | 2.325           | 0.99            | 7/16"       |
| \      | A0315083 | \      | 6.800            | 2.325           | 0.991           | 7/16"       |
| \      | A0315084 | \      | 6.760            | 2.500           | 1.095           | 7/16"       |
| \      | A0315085 | \      | 6.760            | 2.500           | 0.99            | 7/16"       |



| SERIES | APS NO.  | ENGINE | C-C LENGTH(inch) | B/E BORE (inch) | S/E BORE (inch) | BOLT (inch) |
|--------|----------|--------|------------------|-----------------|-----------------|-------------|
| \      | A0315086 | \      | 6.625            | 2.374           | 0.98            | 7/16"       |
| \      | A0315087 | \      | 5.700            | 2.225           | 0.928           | 7/16"       |
| \      | A0315088 | \      | 5.850            | 2.225           | 0.928           | 7/16"       |
| \      | A0315089 | \      | 6.200            | 2.225           | 0.928           | 7/16"       |
| \      | A0315090 | \      | 6.000            | 2.225           | 0.928           | 7/16"       |
| \      | A0315091 | \      | 6.000            | 2.125           | 0.928           | 7/16"       |
| \      | A0315092 | \      | 6.125            | 2.225           | 0.928           | 7/16"       |
| \      | A0315093 | \      | 6.860            | 2.500           | 1.031           | 7/16"       |
| \      | A0315094 | \      | 5.400            | 2.239           | 0.928           | 7/16"       |
| \      | A0315095 | \      | 6.123            | 2.250           | 0.984           | 7/16"       |
| \      | A0315096 | \      | 6.135            | 2.325           | 0.990           | 7/16"       |
| \      | A0315097 | \      | 7.100            | 2.325           | 0.990           | 7/16"       |
| \      | A0315098 | \      | 6.635            | 2.325           | 0.990           | 7/16"       |
| \      | A0315099 | \      | 5.669            | 1.992           | 0.787           | 3/8"        |
| \      | A0315100 | \      | 5.669            | 1.992           | 0.748           | 3/8"        |
| \      | A0315101 | \      | 5.669            | 1.992           | 0.788           | 3/8"        |
| \      | A0315102 | \      | 5.610            | 2.047           | 0.866           | 3/8"        |
| \      | A0315103 | \      | 5.669            | 2.047           | 0.866           | 3/8"        |
| \      | A0315104 | \      | 5.472            | 2.087           | 0.827           | 3/8"        |
| \      | A0315105 | \      | 5.591            | 2.087           | 0.827           | 3/8"        |
| \      | A0315106 | \      | 5.709            | 1.890           | 0.866           | 3/8"        |
| \      | A0315107 | \      | 5.510            | 1.890           | 0.866           | 3/8"        |
| \      | A0315108 | \      | 5.259            | 1.915           | 0.767           | 3/8"        |
| \      | A0315109 | \      | 6.220            | 2.114           | 0.787           | 3/8"        |
| \      | A0315110 | \      | 4.923            | 1.814           | 0.748           | 5/16"       |
| \      | A0315111 | \      | 5.060            | 1.915           | 0.866           | 3/8"        |
| \      | A0315112 | \      | 5.374            | 2.165           | 0.945           | 7/16"       |
| \      | A0315113 | \      | 5.290            | 1.890           | 0.827           | 3/8"        |
| \      | A0315114 | \      | 5.430            | 1.890           | 0.827           | 3/8"        |
| \      | A0315115 | \      | 5.709            | 2.122           | 0.866           | 3/8"        |
| \      | A0315116 | \      | 5.230            | 1.890           | 0.787           | 3/8"        |
| \      | A0315117 | \      | 5.181            | 1.929           | 0.827           | 3/8"        |
| \      | A0315118 | \      | 5.906            | 1.890           | 0.866           | 7/16"       |

| SERIES | APS NO.  | ENGINE | C-C LENGTH(inch) | B/E BORE (inch) | S/E BORE (inch) | BOLT (inch) |
|--------|----------|--------|------------------|-----------------|-----------------|-------------|
| \      | A0315119 | \      | 5.236            | 1.890           | 0.787           | 3/8"        |
| \      | A0315120 | \      | 5.366            | 2.008           | 0.866           | 7/16"       |
| \      | A0315121 | \      | 4.783            | 2.008           | 0.827           | 3/8"        |
| \      | A0315122 | \      | 4.705            | 2.008           | 0.827           | 3/8"        |
| \      | A0315123 | \      | 5.630            | 2.047           | 0.827           | 3/8"        |
| \      | A0315124 | \      | 5.630            | 2.047           | 0.827           | 7/16"       |
| \      | A0315125 | \      | 5.669            | 2.031           | 0.827           | 3/8"        |
| \      | A0315126 | \      | 5.039            | 1.874           | 0.787           | 5/16"       |
| \      | A0315127 | \      | 5.240            | 2.035           | 0.709           | 5/16"       |
| \      | A0315128 | \      | 5.138            | 2.165           | 0.906           | 7/16"       |
| \      | A0315129 | \      | 5.321            | 1.772           | 0.787           | 5/16"       |
| \      | A0315130 | \      | 4.724            | 1.772           | 0.748           | 5/16"       |
| \      | A0315131 | \      | 5.138            | 1.811           | 0.709           | 3/8"        |
| \      | A0315132 | \      | 4.803            | 1.772           | 0.787           | 3/8"        |
| \      | A0315133 | \      | 5.433            | 2.008           | 0.866           | 3/8"        |
| \      | A0315134 | \      | 5.591            | 2.165           | 0.866           | 3/8"        |
| \      | A0315135 | \      | 5.669            | 1.993           | 0.669           | 5/16"       |
| \      | A0315136 | \      | 6.457            | 2.236           | 0.787           | 3/8"        |
| \      | A0315137 | \      | 5.059            | 2.165           | 0.945           | 7/16"       |
| \      | A0315138 | \      | 6.260            | 1.992           | 0.827           | 3/8"        |
| \      | A0315139 | \      | 5.423            | 1.915           | 0.709           | 3/8"        |
| \      | A0315140 | \      | 5.454            | 1.890           | 0.787           | 5/16"       |
| \      | A0315141 | \      | 5.108            | 1.811           | 0.748           | 5/16"       |
| \      | A0315142 | \      | 5.118            | 1.856           | 0.787           | 5/16"       |
| \      | A0315143 | \      | 4.724            | 1.855           | 0.787           | 5/16"       |
| \      | A0315144 | \      | 5.709            | 2.022           | 0.866           | 3/8"        |
| \      | A0315145 | \      | 5.157            | 2.185           | 0.866           | 3/8"        |
| \      | A0315146 | \      | 5.906            | 2.047           | 0.866           | 3/8"        |
| \      | A0315147 | \      | 6.496            | 2.323           | 0.906           | 3/8"        |
| \      | A0315148 | \      | 5.469            | 2.008           | 0.866           | 3/8"        |
| \      | A0315149 | \      | 6.024            | 2.008           | 0.906           | 3/8"        |
| \      | A0315150 | \      | 5.571            | 2.087           | 0.866           | 3/8"        |
| \      | A0315151 | \      | 5.079            | 1.777           | 0.709           | 5/16"       |



| SERIES | APS NO.  | ENGINE | C-C LENGTH(inch) | B/E BORE (inch) | S/E BORE (inch) | BOLT (inch) |
|--------|----------|--------|------------------|-----------------|-----------------|-------------|
| \      | A031512  | \      | 5.010            | 1.811           | 0.748           | 5/16"       |
| \      | A031513  | \      | 5.827            | 2.047           | 0.827           | 7/16"       |
| \      | A031514  | \      | 5.629            | 2.086           | 0.906           | 3/8"        |
| \      | A031515  | \      | 5.709            | 2.283           | 0.945           | 7/16"       |
| \      | A031516  | \      | 5.984            | 2.047           | 0.906           | 7/16"       |
| \      | A031517  | \      | 5.658            | 2.165           | 0.906           | 3/8"        |
| \      | A031518  | \      | 5.260            | 1.915           | 0.709           | 3/8"        |
| \      | A031519  | \      | 4.406            | 1.772           | 0.669           | 5/16"       |
| \      | A0315160 | \      | 4.646            | 1.696           | 0.709           | 5/16"       |
| \      | A0315161 | \      | 5.423            | 1.915           | 0.709           | 3/8"        |
| \      | A0315162 | \      | 5.906            | 1.890           | 0.866           | 7/16"       |
| \      | A0315163 | \      | 4.803            | 1.693           | 0.709           | 3/8"        |
| \      | A0315164 | \      | 5.394            | 1.890           | 0.827           | 5/16"       |
| \      | A0315165 | \      | 5.259            | 1.915           | 0.767           | 3/8"        |
| \      | A0315166 | \      | 5.157            | 1.890           | 0.709           | 5/16"       |
| \      | A0315167 | \      | 5.669            | 1.992           | 0.788           | 3/8"        |
| \      | A0315168 | \      | 5.430            | 1.890           | 0.827           | 3/8"        |
| \      | A0315169 | \      | 6.024            | 2.008           | 0.906           | 3/8"        |
| \      | A0315170 | \      | 5.469            | 2.008           | 0.866           | 3/8"        |
| \      | A0315171 | \      | 5.669            | 2.031           | 0.827           | 3/8"        |
| \      | A0315172 | \      | 5.230            | 1.890           | 0.787           | 3/8"        |
| \      | A0315173 | \      | 5.472            | 2.087           | 0.827           | 3/8"        |
| \      | A0315174 | \      | 5.709            | 1.772           | 0.866           | 3/8"        |
| \      | A0315175 | \      | 4.443            | 1.654           | 0.827           | 5/16"       |
| \      | A0315176 | \      | 6.142            | 1.890           | 0.866           | 3/8"        |
| \      | A0315177 | \      | 5.335            | 2.008           | 0.866           | 3/8"        |
| \      | A0315178 | \      | 5.846            | 2.008           | 0.866           | 3/8"        |
| \      | A0315179 | \      | 5.728            | 2.008           | 0.906           | 3/8"        |
| \      | A0315180 | \      | 5.778            | 2.008           | 0.906           | 3/8"        |
| \      | A0315181 | \      | 5.892            | 2.008           | 0.906           | 3/8"        |
| \      | A0315182 | \      | 5.472            | 1.916           | 0.709           | 3/8"        |
| \      | A0315183 | \      | 5.795            | 1.992           | 0.787           | 3/8"        |
| \      | A0315184 | \      | 5.669            | 1.992           | 0.787           | 3/8"        |

| SERIES | APS NO.  | ENGINE | C-C LENGTH(inch) | B/E BORE (inch) | S/E BORE (inch) | BOLT (inch) |
|--------|----------|--------|------------------|-----------------|-----------------|-------------|
| \      | A0315185 | \      | 5.256            | 2.165           | 0.945           | 3/8"        |
| \      | A0315186 | \      | 4.488            | 1.639           | 0.630           | 5/16"       |
| \      | A0315187 | \      | 4.488            | 1.639           | 0.669           | 5/16"       |
| \      | A0315188 | \      | 4.705            | 1.614           | 0.709           | 5/16"       |
| \      | A0315189 | \      | 4.705            | 1.614           | 0.787           | 5/16"       |
| \      | A0315190 | \      | 5.492            | 2.087           | 0.906           | 3/8"        |
| \      | A0315191 | \      | 5.758            | 1.966           | 0.827           | 3/8"        |
| \      | A0315192 | \      | 5.039            | 2.165           | 0.866           | 3/8"        |
| \      | A0315193 | \      | 5.276            | 2.205           | 0.945           | 3/8"        |
| \      | A0315194 | \      | 5.276            | 2.165           | 0.866           | 3/8"        |
| \      | A0315195 | \      | 5.669            | 1.992           | 0.827           | 3/8"        |
| \      | A0315196 | \      | 5.060            | 1.915           | 0.866           | 3/8"        |
| \      | A0315197 | \      | 5.669            | 1.992           | 0.787           | 3/8"        |
| \      | A0315198 | \      | 5.669            | 1.992           | 0.827           | 3/8"        |
| \      | A0315199 | \      | 5.669            | 1.992           | 0.787           | 3/8"        |
| \      | A0315200 | \      | 5.669            | 1.992           | 0.787           | 3/8"        |
| \      | A0315201 | \      | 5.259            | 1.915           | 0.767           | 3/8"        |
| \      | A0315202 | \      | 5.060            | 1.915           | 0.866           | 3/8"        |
| \      | A0315203 | \      | 5.256            | 2.165           | 0.945           | 3/8"        |
| \      | A0315204 | \      | 5.430            | 1.890           | 0.827           | 3/8"        |
| \      | A0315205 | \      | 5.709            | 2.122           | 0.866           | 3/8"        |
| \      | A0315206 | \      | 5.906            | 1.890           | 0.866           | 3/8"        |
| \      | A0315207 | \      | 6.142            | 1.890           | 0.866           | 3/8"        |
| \      | A0315208 | \      | 6.496            | 2.323           | 0.906           | 3/8"        |
| \      | A0315209 | \      | 5.630            | 2.047           | 0.827           | 3/8"        |
| \      | A0315210 | \      | 5.108            | 1.811           | 0.748           | 3/8"        |
| \      | A0315211 | \      | 5.138            | 2.165           | 0.906           | 3/8"        |
| \      | A0315212 | \      | 5.433            | 2.008           | 0.866           | 3/8"        |
| \      | A0315213 | \      | 5.591            | 2.165           | 0.866           | 3/8"        |
| \      | A0315214 | \      | 4.705            | 1.614           | 0.787           | 3/8"        |
| \      | A0315215 | \      | 4.705            | 1.614           | 0.709           | 3/8"        |
| \      | A0315216 | \      | 5.669            | 1.992           | 0.827           | 3/8"        |
| \      | A0316001 | \      | 5.669            | 1.992           | 0.787           | 3/8"        |



| SERIES | APS NO.  | ENGINE | C-C LENGTH(inch) | B/E BORE (inch) | S/E BORE (inch) | BOLT (inch) |
|--------|----------|--------|------------------|-----------------|-----------------|-------------|
| \      | A0316002 | \      | 5.669            | 1.992           | 0.748           | 3/8"        |
| \      | A0316003 | \      | 5.669            | 1.992           | 0.788           | 3/8"        |
| \      | A0316004 | \      | 5.610            | 2.047           | 0.866           | 3/8"        |
| \      | A0316005 | \      | 5.669            | 2.047           | 0.866           | 3/8"        |
| \      | A0316006 | \      | 5.472            | 2.087           | 0.827           | 3/8"        |
| \      | A0316007 | \      | 5.591            | 2.087           | 0.827           | 3/8"        |
| \      | A0316008 | \      | 5.709            | 1.890           | 0.866           | 3/8"        |
| \      | A0316009 | \      | 5.510            | 1.890           | 0.866           | 3/8"        |
| \      | A0316010 | \      | 5.259            | 1.915           | 0.767           | 3/8"        |
| \      | A0316011 | \      | 6.220            | 2.114           | 0.787           | 3/8"        |
| \      | A0316012 | \      | 4.923            | 1.814           | 0.748           | 5/16"       |
| \      | A0316013 | \      | 5.060            | 1.915           | 0.866           | 3/8"        |
| \      | A0316014 | \      | 5.374            | 2.165           | 0.945           | 7/16"       |
| \      | A0316015 | \      | 5.290            | 1.890           | 0.827           | 3/8"        |
| \      | A0316016 | \      | 5.430            | 1.890           | 0.827           | 3/8"        |
| \      | A0316017 | \      | 5.709            | 2.122           | 0.866           | 3/8"        |
| \      | A0316018 | \      | 5.230            | 1.890           | 0.787           | 3/8"        |
| \      | A0316019 | \      | 5.181            | 1.929           | 0.827           | 3/8"        |
| \      | A0316020 | \      | 5.906            | 1.890           | 0.866           | 7/16"       |
| \      | A0316021 | \      | 5.236            | 1.890           | 0.787           | 3/8"        |
| \      | A0316022 | \      | 5.366            | 2.008           | 0.866           | 7/16"       |
| \      | A0316023 | \      | 4.783            | 2.008           | 0.827           | 3/8"        |
| \      | A0316024 | \      | 4.705            | 2.008           | 0.827           | 3/8"        |
| \      | A0316025 | \      | 5.630            | 2.047           | 0.827           | 3/8"        |
| \      | A0316026 | \      | 5.630            | 2.047           | 0.827           | 7/16"       |
| \      | A0316027 | \      | 5.669            | 2.031           | 0.827           | 3/8"        |
| \      | A0316028 | \      | 5.039            | 1.874           | 0.787           | 5/16"       |
| \      | A0316029 | \      | 5.240            | 2.035           | 0.709           | 5/16"       |
| \      | A0316030 | \      | 5.138            | 2.165           | 0.906           | 7/16"       |
| \      | A0316031 | \      | 5.321            | 1.772           | 0.787           | 5/16"       |
| \      | A0316032 | \      | 4.724            | 1.772           | 0.748           | 5/16"       |
| \      | A0316033 | \      | 5.138            | 1.811           | 0.709           | 3/8"        |
| \      | A0316034 | \      | 4.803            | 1.772           | 0.787           | 3/8"        |

| SERIES | APS NO.  | ENGINE | C-C LENGTH(inch) | B/E BORE (inch) | S/E BORE (inch) | BOLT (inch) |
|--------|----------|--------|------------------|-----------------|-----------------|-------------|
| \      | A0316035 | \      | 5.433            | 2.008           | 0.866           | 3/8"        |
| \      | A0316036 | \      | 5.591            | 2.165           | 0.866           | 3/8"        |
| \      | A0316037 | \      | 5.669            | 1.993           | 0.669           | 5/16"       |
| \      | A0316038 | \      | 6.457            | 2.236           | 0.787           | 3/8"        |
| \      | A0316039 | \      | 5.059            | 2.165           | 0.945           | 7/16"       |
| \      | A0316040 | \      | 6.260            | 1.992           | 0.827           | 3/8"        |
| \      | A0316041 | \      | 5.423            | 1.915           | 0.709           | 3/8"        |
| \      | A0316042 | \      | 5.454            | 1.890           | 0.787           | 5/16"       |
| \      | A0316043 | \      | 5.108            | 1.811           | 0.748           | 5/16"       |
| \      | A0316044 | \      | 5.118            | 1.856           | 0.787           | 5/16"       |
| \      | A0316045 | \      | 4.724            | 1.855           | 0.787           | 5/16"       |
| \      | A0316046 | \      | 5.709            | 2.022           | 0.866           | 3/8"        |
| \      | A0316047 | \      | 5.157            | 2.185           | 0.866           | 3/8"        |
| \      | A0316048 | \      | 5.906            | 2.047           | 0.866           | 3/8"        |
| \      | A0316049 | \      | 6.496            | 2.323           | 0.906           | 3/8"        |
| \      | A0316050 | \      | 5.469            | 2.008           | 0.866           | 3/8"        |
| \      | A0316051 | \      | 6.024            | 2.008           | 0.906           | 3/8"        |
| \      | A0316052 | \      | 5.571            | 2.087           | 0.866           | 3/8"        |
| \      | A0316053 | \      | 5.079            | 1.777           | 0.709           | 5/16"       |
| \      | A0316054 | \      | 5.010            | 1.811           | 0.748           | 5/16"       |
| \      | A0316055 | \      | 5.827            | 2.047           | 0.827           | 7/16"       |
| \      | A0316056 | \      | 5.629            | 2.086           | 0.906           | 3/8"        |
| \      | A0316057 | \      | 5.709            | 2.283           | 0.945           | 7/16"       |
| \      | A0316058 | \      | 5.984            | 2.047           | 0.906           | 7/16"       |
| \      | A0316059 | \      | 5.658            | 2.165           | 0.906           | 3/8"        |
| \      | A0316060 | \      | 5.260            | 1.915           | 0.709           | 3/8"        |
| \      | A0316061 | \      | 4.4060           | 1.772           | 0.669           | 5/16"       |
| \      | A0316062 | \      | 4.646            | 1.696           | 0.709           | 5/16"       |
| \      | A0316063 | \      | 5.423            | 1.915           | 0.709           | 3/8"        |
| \      | A0316064 | \      | 5.906            | 1.890           | 0.866           | 7/16"       |
| \      | A0316065 | \      | 4.803            | 1.693           | 0.709           | 3/8"        |
| \      | A0316066 | \      | 5.394            | 1.890           | 0.827           | 5/16"       |
| \      | A0316067 | \      | 5.259            | 1.915           | 0.767           | 3/8"        |



| SERIES | APS NO.  | ENGINE | C-C LENGTH(inch) | B/E BORE (inch) | S/E BORE (inch) | BOLT (inch) |
|--------|----------|--------|------------------|-----------------|-----------------|-------------|
| \      | A0316068 | \      | 5.157            | 1.890           | 0.709           | 5/16"       |
| \      | A0316069 | \      | 5.669            | 1.992           | 0.788           | 3/8"        |
| \      | A0316070 | \      | 5.430            | 1.890           | 0.827           | 3/8"        |
| \      | A0316071 | \      | 6.024            | 2.008           | 0.906           | 3/8"        |
| \      | A0316072 | \      | 5.469            | 2.008           | 0.866           | 3/8"        |
| \      | A0316073 | \      | 5.669            | 2.031           | 0.827           | 3/8"        |
| \      | A0316074 | \      | 5.230            | 1.890           | 0.787           | 3/8"        |
| \      | A0316075 | \      | 5.472            | 2.087           | 0.827           | 3/8"        |
| \      | A0316076 | \      | 5.709            | 1.772           | 0.866           | 3/8"        |
| \      | A0316077 | \      | 4.443            | 1.654           | 0.827           | 5/16"       |
| \      | A0316078 | \      | 6.142            | 1.890           | 0.866           | 3/8"        |
| \      | A0316079 | \      | 5.335            | 2.008           | 0.866           | 3/8"        |
| \      | A0316080 | \      | 5.846            | 2.008           | 0.866           | 3/8"        |
| \      | A0316081 | \      | 5.728            | 2.008           | 0.906           | 3/8"        |
| \      | A0316082 | \      | 5.778            | 2.008           | 0.906           | 3/8"        |
| \      | A0316083 | \      | 5.892            | 2.008           | 0.906           | 3/8"        |
| \      | A0316084 | \      | 5.472            | 1.916           | 0.709           | 3/8"        |
| \      | A0316085 | \      | 5.795            | 1.992           | 0.787           | 3/8"        |
| \      | A0316086 | \      | 5.669            | 1.992           | 0.787           | 3/8"        |
| \      | A0316087 | \      | 5.256            | 2.165           | 0.945           | 3/8"        |
| \      | A0316088 | \      | 4.488            | 1.639           | 0.630           | 5/16"       |
| \      | A0316089 | \      | 4.488            | 1.639           | 0.669           | 5/16"       |
| \      | A0316090 | \      | 4.705            | 1.614           | 0.709           | 5/16"       |
| \      | A0316091 | \      | 4.705            | 1.614           | 0.787           | 5/16"       |
| \      | A0316092 | \      | 5.492            | 2.087           | 0.906           | 3/8"        |
| \      | A0316093 | \      | 5.758            | 1.966           | 0.827           | 3/8"        |
| \      | A0316094 | \      | 5.039            | 2.165           | 0.866           | 3/8"        |
| \      | A0316095 | \      | 5.276            | 2.205           | 0.945           | 3/8"        |
| \      | A0316096 | \      | 5.423            | 2.165           | 0.866           | 3/8"        |
| \      | A0316097 | \      | 5.669            | 1.992           | 0.827           | 3/8"        |
| \      | A0316098 | \      | 5.06             | 1.915           | 0.866           | 3/8"        |
| \      | A0316099 | \      | 5.669            | 1.992           | 0.787           | 3/8"        |
| \      | A0316100 | \      | 5.669            | 1.992           | 0.827           | 3/8"        |

| SERIES | APS NO.  | ENGINE | C-C LENGTH(inch) | B/E BORE (inch) | S/E BORE (inch) | BOLT (inch) |
|--------|----------|--------|------------------|-----------------|-----------------|-------------|
| \      | A0316101 | \      | 5.669            | 1.992           | 0.787           | 3/8"        |
| \      | A0316102 | \      | 5.669            | 1.992           | 0.787           | 3/8"        |
| \      | A0316103 | \      | 5.259            | 1.915           | 0.767           | 3/8"        |
| \      | A0316104 | \      | 5.060            | 1.915           | 0.866           | 3/8"        |
| \      | A0316105 | \      | 5.256            | 2.165           | 0.945           | 3/8"        |
| \      | A0316106 | \      | 5.430            | 1.890           | 0.827           | 3/8"        |
| \      | A0316107 | \      | 5.709            | 2.122           | 0.866           | 3/8"        |
| \      | A0316108 | \      | 5.906            | 1.890           | 0.866           | 3/8"        |
| \      | A0316109 | \      | 6.142            | 1.890           | 0.866           | 3/8"        |
| \      | A0316110 | \      | 6.496            | 2.323           | 0.906           | 3/8"        |
| \      | A0316111 | \      | 5.630            | 2.047           | 0.827           | 3/8"        |
| \      | A0316112 | \      | 5.108            | 1.811           | 0.748           | 3/8"        |
| \      | A0316113 | \      | 5.138            | 2.165           | 0.906           | 3/8"        |
| \      | A0316114 | \      | 5.433            | 2.008           | 0.866           | 3/8"        |
| \      | A0316115 | \      | 5.591            | 2.165           | 0.866           | 3/8"        |
| \      | A0316116 | \      | 4.705            | 1.614           | 0.787           | 3/8"        |
| \      | A0316117 | \      | 4.705            | 1.614           | 0.709           | 3/8"        |
| \      | A0316118 | \      | 5.669            | 1.992           | 0.827           | 3/8"        |



V6 ENGINE CRANKSHAFT & CONNECTING ROD



V8 ENGINE CRANKSHAFT & CONNECTING ROD