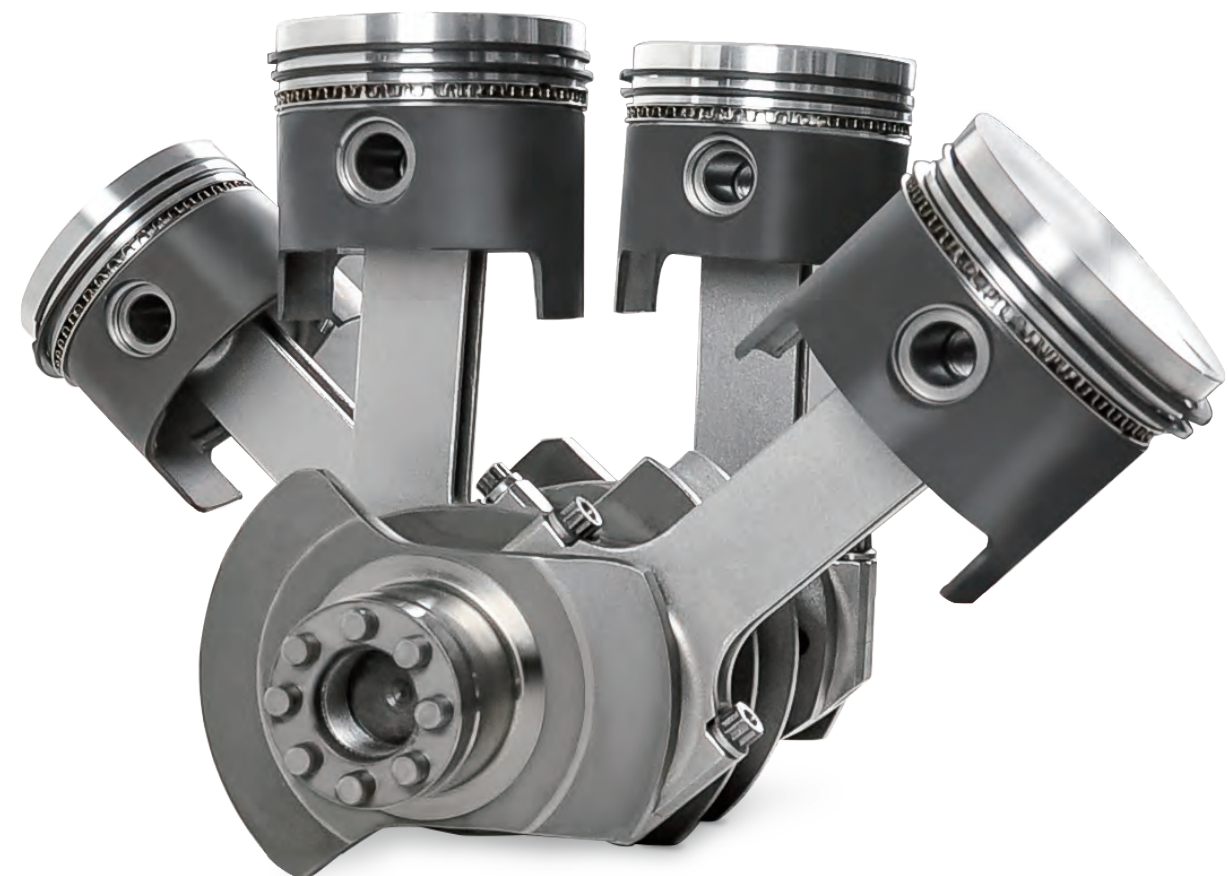


# CRANKSHAFTS & CONNECTING ROD



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



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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.     | DESCAPTION                          |
|----------|------------|-------------------------------------|
| A0400002 | 002 4074VW | Casting Crankshaft-74mm Stroke - VW |
| A0400003 | 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.     | DESCAPTION                                                                                  |
|----------|------------|---------------------------------------------------------------------------------------------|
| A0400001 | 042 4069VW | Casting Crankshaft-69mm Stroke - VW<br>( It fits all 1300-1600cc Type 1, 2, and 3 engines ) |
| A0400004 | 042 4064VW | Casting Crankshaft-64mm Stroke - VW                                                         |

## 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.     | DESCAPTION                                        |
|----------|------------|---------------------------------------------------|
| 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.    | DESCAPTION                                           |
|----------|-----------|------------------------------------------------------|
| 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 |

## 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.     | DESCAPTION                                        |
|----------|------------|---------------------------------------------------|
| 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.    | DESCAPTION                                           |
|----------|-----------|------------------------------------------------------|
| 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 |

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.   | DESCAPTION                                      |
|----------|----------|-------------------------------------------------|
| 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.     | DESCAPTION                                        |
|----------|------------|---------------------------------------------------|
| 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.    | DESCAPTION                                           |
|----------|-----------|------------------------------------------------------|
| 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.     | DESCAPTION                                               |
|----------|------------|----------------------------------------------------------|
| 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.

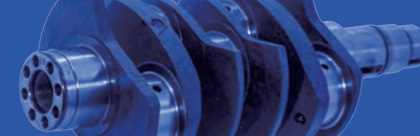
These cranks are Nitrided for strength, micro polished, and Balanced within a gram.

| APS NO.  | OE NO.     | DESCAPTION                                                 |
|----------|------------|------------------------------------------------------------|
| 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 | \      | 3.625           | 2.4996-2.4988         | 2.2494-2.2484        |
|           | A0700002 | \      | 3.400           | 2.4996-2.4988         | 2.2494-2.2484        |
| CHEVY LS1 | A0700003 | \      | 3.622           | 2.559-2.558           | 2.100-2.0990         |
|           | A0700004 | \      | 3.900           | 2.559-2.558           | 2.100-2.0990         |
|           | A0700005 | \      | 4.000           | 2.559-2.558           | 2.100-2.0990         |
|           | A0700006 | \      | 4.100           | 2.559-2.558           | 2.100-2.0990         |
|           | A0700007 | \      | 4.125           | 2.559-2.558           | 2.100-2.0990         |
| CHEVY 350 | A0700008 | \      | 3.250           | 2.4492-2.4484         | 2.100-2.0990         |
|           | A0700009 | \      | 3.480           | 2.4492-2.4484         | 2.100-2.0990         |
|           | A0700010 | \      | 3.500           | 2.4492-2.4484         | 2.100-2.0990         |
|           | A0700011 | \      | 3.562           | 2.4492-2.4484         | 2.100-2.0990         |
|           | A0700012 | \      | 3.625           | 2.4492-2.4484         | 2.100-2.0990         |
|           | A0700013 | \      | 3.750           | 2.4492-2.4484         | 2.100-2.0990         |
|           | A0700014 | \      | 3.800           | 2.4492-2.4484         | 2.100-2.0990         |
|           | A0700015 | \      | 3.875           | 2.4492-2.4484         | 2.100-2.0990         |
|           | A0700016 | \      | 4.000           | 2.4492-2.4484         | 2.100-2.0990         |
|           | A0700017 | \      | 4.125           | 2.4492-2.4484         | 2.100-2.0990         |
|           | A0700018 | \      | 3.480           | 2.4492-2.4484         | 2.100-2.0990         |
|           | A0700019 | \      | 3.500           | 2.4492-2.4484         | 2.100-2.0990         |
|           | A0700020 | \      | 3.750           | 2.4492-2.4484         | 2.100-2.0990         |
|           | A0700021 | \      | 3.875           | 2.4492-2.4484         | 2.100-2.0990         |
|           | A0700022 | \      | 4.000           | 2.4492-2.4484         | 2.100-2.0990         |
|           | A0700023 | \      | 3.250           | 2.4492-2.4484         | 2.100-2.0990         |
|           | A0700024 | \      | 3.480           | 2.4492-2.4484         | 2.100-2.0990         |
|           | A0700025 | \      | 3.500           | 2.4492-2.4484         | 2.100-2.0990         |
|           | A0700026 | \      | 3.750           | 2.4492-2.4484         | 2.100-2.0990         |
|           | A0700027 | \      | 3.800           | 2.4492-2.4484         | 2.100-2.0990         |
|           | A0700028 | \      | 3.875           | 2.4492-2.4484         | 2.100-2.0990         |
|           | A0700029 | \      | 4.000           | 2.4492-2.4484         | 2.100-2.0990         |
|           | A0700030 | \      | 3.480           | 2.4492-2.4484         | 2.100-2.0990         |
|           | A0700031 | \      | 3.500           | 2.4492-2.4484         | 2.100-2.0990         |
|           | A0700032 | \      | 3.750           | 2.4492-2.4484         | 2.100-2.0990         |



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

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



| SERIES                    | APS NO.  | ENGINE                                                                                                       | STROKE ( inch ) | MAIN JOURNAL ( inch ) | ROD JOURNAL ( inch ) |
|---------------------------|----------|--------------------------------------------------------------------------------------------------------------|-----------------|-----------------------|----------------------|
| FORD 352<br>( Continued ) | A0700101 | \                                                                                                            | 3.750           | 2.7484-2.7492         | 2.0990-2.1000        |
|                           | A0700102 | \                                                                                                            | 3.625           | 2.7484-2.7492         | 2.0990-2.1000        |
|                           | A0700103 | \                                                                                                            | 3.600           | 2.7484-2.7492         | 2.0990-2.1000        |
|                           | A0700104 | \                                                                                                            | 3.562           | 2.7484-2.7492         | 2.0990-2.1000        |
|                           | A0700105 | \                                                                                                            | 3.500           | 2.7484-2.7492         | 2.0990-2.1000        |
|                           | A0700106 | \                                                                                                            | 3.480           | 2.7484-2.7492         | 2.0990-2.1000        |
| FORD 302                  | A0700107 | \                                                                                                            | 3.470           | 2.2482-2.2490         | 2.0990-2.1000        |
|                           | A0700108 | \                                                                                                            | 3.470           | 2.2482-2.2490         | 2.1222-2.1232        |
|                           | A0700109 | \                                                                                                            | 3.400           | 2.2482-2.2490         | 2.0990-2.1000        |
|                           | A0700110 | \                                                                                                            | 3.400           | 2.2482-2.2490         | 2.1222-2.1232        |
|                           | A0700111 | \                                                                                                            | 3.250           | 2.2482-2.2490         | 2.0990-2.1000        |
|                           | A0700112 | \                                                                                                            | 3.250           | 2.2482-2.2490         | 2.1222-2.1232        |
|                           | A0700113 | \                                                                                                            | 3.100           | 2.2482-2.2490         | 2.0990-2.1000        |
|                           | A0700114 | \                                                                                                            | 3.100           | 2.2482-2.2490         | 2.1222-2.1232        |
|                           | A0700115 | \                                                                                                            | 3.000           | 2.2482-2.2490         | 2.0990-2.1000        |
|                           | A0700116 | \                                                                                                            | 3.000           | 2.2482-2.2490         | 2.1222-2.1232        |
| FORD 460                  | A0700117 | \                                                                                                            | 4.140           | 3.0000-2.9992         | 2.2000-2.1990        |
|                           | A0700118 | \                                                                                                            | 4.160           | 3.0000-2.9992         | 2.2000-2.1990        |
|                           | A0700119 | \                                                                                                            | 4.300           | 3.0000-2.9992         | 2.2000-2.1990        |
|                           | A0700120 | \                                                                                                            | 4.500           | 3.0000-2.9992         | 2.2000-2.1990        |
|                           | A0700121 | \                                                                                                            | 4.600           | 3.0000-2.9992         | 2.2000-2.1990        |
| FORD                      | A0600001 | 2.0T ( Suits for MONDEO / EDGE / KUGA / FOCUS ST / VOLVO XC360 / RANGE ROVER EVOQUE & JAGUAR )               | \               | \                     | \                    |
| ISUZU                     | A0500001 | 4JB1 ( Forging 49MnV3 )                                                                                      | 4.016           | 2.7559                | 2.0866               |
|                           | A0500002 | 4JJ1 ( Forging 4140 Steel )                                                                                  | 4.094           | 2.7559                | 2.0866               |
| LAND ROVER                | A0600002 | TDV6 ( Both TDV6 2.7L & TDV6 3.0L available, Can supply conrods and bearings to match with the crankshaft. ) | \               | \                     | \                    |
| MITSUBISHI                | 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 )                                                                                | \               | \                     | \                    |
| NISSAN / INFINITI         | A0600003 | V9X ( Forging Steel 40CrNiMoA )                                                                              | \               | \                     | \                    |
| PONTIAC                   | A0700122 | \                                                                                                            | 4.000           | 3.2500-3.2492         | 2.2496-2.2486        |
|                           | A0700123 | \                                                                                                            | 4.210           | 3.2500-3.2492         | 2.2496-2.2486        |
|                           | A0700124 | \                                                                                                            | 4.250           | 3.2500-3.2492         | 2.2000-2.1990        |
|                           | A0700125 | \                                                                                                            | 4.500           | 3.2500-3.2492         | 2.2000-2.1990        |
|                           | A0700126 | \                                                                                                            | 3.750           | 3.0000-2.9992         | 2.2496-2.2486        |

| SERIES                   | APS NO.  | ENGINE                          | STROKE ( inch ) | MAIN JOURNAL ( inch ) | ROD JOURNAL ( inch ) |
|--------------------------|----------|---------------------------------|-----------------|-----------------------|----------------------|
| PONTIAC<br>( Continued ) | A0700127 | \                               | 4.210           | 3.0000-2.9992         | 2.2496-2.2486        |
|                          | A0700128 | \                               | 4.250           | 3.0000-2.9992         | 2.2000-2.1990        |
|                          | A0700129 | \                               | 4.500           | 3.0000-2.9992         | 2.2000-2.1990        |
|                          | A0700130 | \                               | 4.750           | 3.0000-2.9992         | 2.2000-2.1990        |
| TOYOTA                   | A0600004 | 1GR ( Forging Steel 40CrNiMoA ) | \               | \                     | \                    |
|                          | 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               |
| VOLKSWAGEN               | 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 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 | 5.7-I             | 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 | Lotus 4.926"        | 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(J)             | 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 | K 124           | 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 | \               | 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 ) |
|--------------------------------|----------|-------------------|--------------------|-------------------|-------------------|---------------|
| <b>TOYOTA</b><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 | \                 | 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 ) |
|--------------------------------|----------|---------------|--------------------|-------------------|-------------------|---------------|
| <b>TOYOTA</b><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 | \             | 5.768              | 1.850             | 0.788             | 5/16"         |
|                                | A0314248 | \             | 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 | \             | 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 | \             | 5.768              | 1.851             | 0.788             | 3/8"          |
|                                | A0314255 | \             | 5.768              | 1.851             | 0.788             | 3/8"          |
|                                | A0314256 | \             | 5.768              | 1.851             | 0.788             | 5/16"         |
|                                | A0314257 | 5.508"        | 5.508              | 1.837             | 0.709             | 5/16"         |
|                                | A0314258 | \             | 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 ) |
|--------------------------------|----------|-------------------|--------------------|-------------------|-------------------|---------------|
| <b>TOYOTA</b><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 | 1JZ-4TG           | 4.929              | 2.165             | 0.867             | 3/8"          |
|                                | A0314266 | \                 | 4.931              | 2.167             | 0.867             | 3/8"          |
|                                | A0314267 | 1JZ-4TG           | 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 | \                 | 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 | \                 | 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"         |
| <b>SUBARU</b>                  | 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 ) |
|--------------------------------|----------|---------------------|--------------------|-------------------|-------------------|---------------|
| <b>SUBARU</b><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 | \                   | 5.050              | 2.165             | 0.945             | 3/8"          |
|                                | A0315002 | \                   | 5.090              | 2.239             | 0.913             | 7/16"         |
|                                | A0315003 | \                   | 5.155              | 2.239             | 0.913             | 7/16"         |
|                                | A0315004 | \                   | 5.315              | 2.239             | 0.913             | 7/16"         |
|                                | A0315005 | \                   | 5.400              | 2.239             | 0.928             | 7/16"         |
|                                | A0315006 | \                   | 5.315              | 2.225             | 0.928             | 7/16"         |
|                                | A0315007 | \                   | 5.400              | 2.225             | 0.928             | 7/16"         |
|                                | A0315008 | \                   | 6.200              | 2.225             | 0.928             | 7/16"         |
|                                | A0315009 | \                   | 6.200              | 2.225             | 0.913             | 7/16"         |
|                                | A0315010 | \                   | 5.565              | 2.225             | 0.928             | 7/16"         |
|                                | A0315011 | \                   | 5.700              | 2.225             | 0.928             | 7/16"         |
|                                | A0315012 | \                   | 6.000              | 2.225             | 0.928             | 7/16"         |
|                                | A0315013 | \                   | 6.125              | 2.225             | 0.928             | 7/16"         |
|                                | A0315014 | \                   | 6.250              | 2.225             | 0.928             | 7/16"         |
|                                | A0315015 | \                   | 5.700              | 2.125             | 0.928             | 7/16"         |
|                                | A0315016 | \                   | 6.000              | 2.125             | 0.928             | 7/16"         |
|                                | A0315017 | \                   | 6.135              | 2.325             | 0.991             | 7/16"         |
|                                | A0315018 | \                   | 6.385              | 2.325             | 0.991             | 7/16"         |
|                                | A0315019 | \                   | 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 ) |
|--------|----------|--------|--------------------|-------------------|-------------------|---------------|
| \      | A0315152 | \      | 5.010              | 1.811             | 0.748             | 5/16"         |
|        | A0315153 | \      | 5.827              | 2.047             | 0.827             | 7/16"         |
|        | A0315154 | \      | 5.629              | 2.086             | 0.906             | 3/8"          |
|        | A0315155 | \      | 5.709              | 2.283             | 0.945             | 7/16"         |
|        | A0315156 | \      | 5.984              | 2.047             | 0.906             | 7/16"         |
|        | A0315157 | \      | 5.658              | 2.165             | 0.906             | 3/8"          |
|        | A0315158 | \      | 5.260              | 1.915             | 0.709             | 3/8"          |
|        | A0315159 | \      | 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"          |



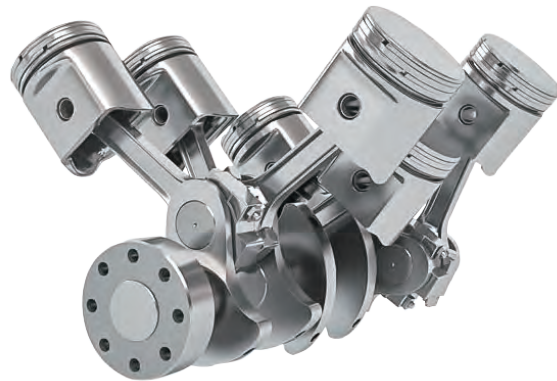
| SERIES | APS NO.  | ENGINE | C-C LENGTH( inch ) | B/E BORE ( inch ) | S/E BORE ( inch ) | BOLT ( inch ) |
|--------|----------|--------|--------------------|-------------------|-------------------|---------------|
| \      | A0316002 | \      | 5.669              | 1.992             | 0.748             | 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