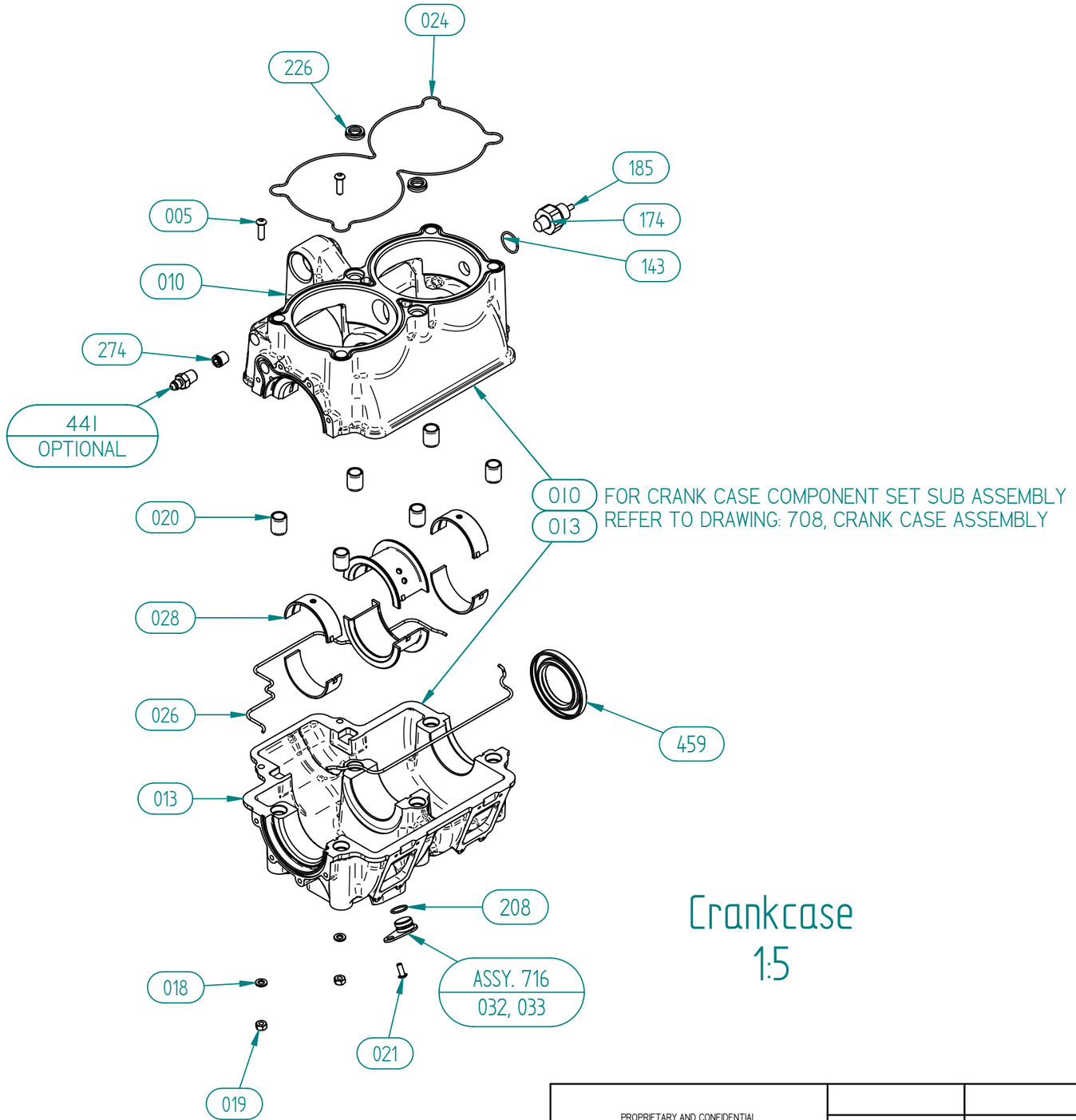


Crankcase
1:5

Manifest No.	Title	Material	Qty	Mass
005	BHSCS M6 x 1.0 x 20	Steel Grade 12.9	2	0.011 kg
010	Upper Crankcase	Aluminum, AA356	1	2.493 kg
013	Lower Crankcase	Aluminium Alloy A356.0 -T6	1	1.969 kg
018	Washer, M6 Narrow	Steel	2	0.002 kg
019	Nut, M6 Nylock	Steel Grade 8	2	0.005 kg
020	Dowel, Crankcase	Mild Steel	6	0.074 kg
021	BHSCS 10-24 x 0.75 UNC	Steel Grade 12.9	1	0.002 kg
024	Head Base O-Ring 769mm Long x 1.78 mm	Viton or Silicon	1	0.003 kg
026	O-Ring, 700mm Long X 2.6mm	Viton or Silicon.	1	0.006 kg
028	Main Bearing Set: MS429P std	Clevite 77	1	0.035 kg
032	Reluctor Plug Cap	2mm MS Pl.	1	0.008 kg
033	Reluctor Plug	Aluminium 6061	1	0.007 kg
143	O-Ring, 1.78mm x 20.3 ID	Viton	1	0.000 kg
174	3/8-18 TPI- NPT plug	Aluminum, 6061-T6	1	0.006 kg
185	Oil Pressure Sensor 1/4" NPT x 7 PSI	Comp	1	0.075 kg
208	O-Ring, 1.5mm X 15.0 ID, Viton	Viton	1	0.000 kg
226	Seal, Radial, CR 12x19x5	Viton	2	0.011 kg
274	1/4-18 TPI- NPT plug	Aluminum, 6061-T6	1	0.003 kg
441	Union #3 JIC to !/4 - 18 NPT	Steel	1	0.019 kg
459	Seal Rotary Oil	Viton	1	0.013 kg

aerotwin

NEXT ASSY. | USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED:

INTERPRET GEOMETRIC TOLERANCING TO ANSI Y 14.5 1994

DIMENSIONS ARE IN mm
GENERAL TOLERANCES:
1 DEC. PLACE = ±0.5
2 DEC. PLACES = ±0.25
3 DEC. PLACES = ±0.10
ANGULAR = ±0.3°

BREAK EDGES 0.3
CORNER RADII 0.3
MACHINE FINISH 125µin/3.2µm Ra

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	DCB	10 NOV 05
CHECKED	WLW	10 NOV 05
ENG. APPR.		
MFG. APPR.		
Q.A.		

COMMENTS:

DRAWING NO.

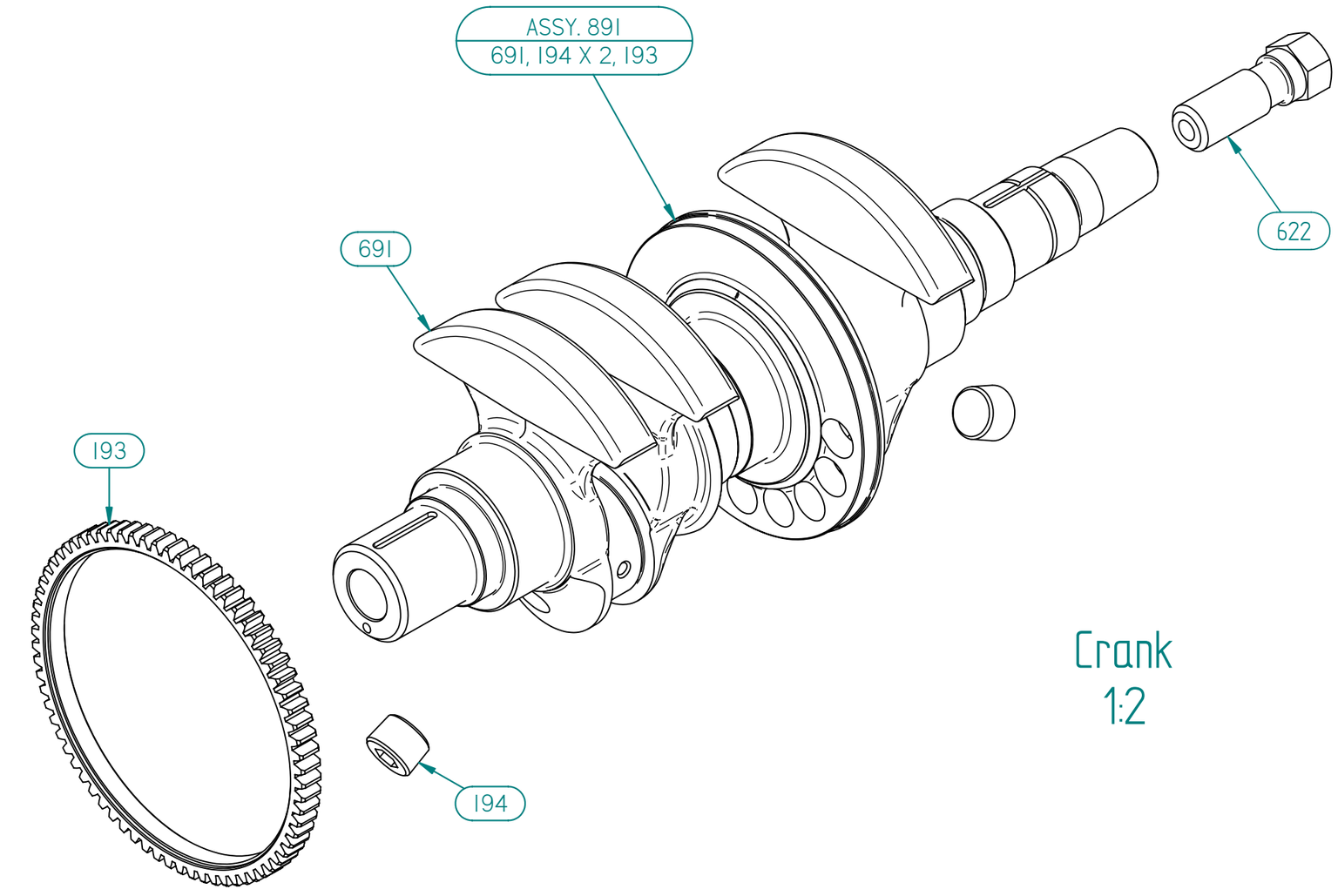
TITLE:
Generic Engine exploded views 2

SIZE A3 | MATERIAL: SEE PARTS LIST | REV. 27
CONDITION: AS PER PART DRAWINGS

SCALE: NOTED | WEIGHT: N/A | SHEET 1 OF 17

7 6 5 4 3 2 1

Manifest No.	Title	Material	Qty	Mass
193	Gear, Ring	Steel 40GR heat treat 60RC, 0.254 deep.	1	0.205 kg
194	Crank Plug	Aluminum, 6061-T6	2	0.020 kg
622	Al;ternator drive-clutched transmission	4130 Steel	1	0.132 kg
691	Crankshaft solid SG iron machined	Iron, QT800-2, heat treated to HRC50-55	1	7.366 kg



Crank
1:2

aerotwin

NEXT ASSY.	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED:

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CORNER RADII 0.3
MACHINE FINISH 125µin/3.2µm Ra

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	DCB	10 NOV 05
CHECKED	WLW	10 NOV 05
ENG. APPR.		
MFG. APPR.		
Q.A.		

COMMENTS:

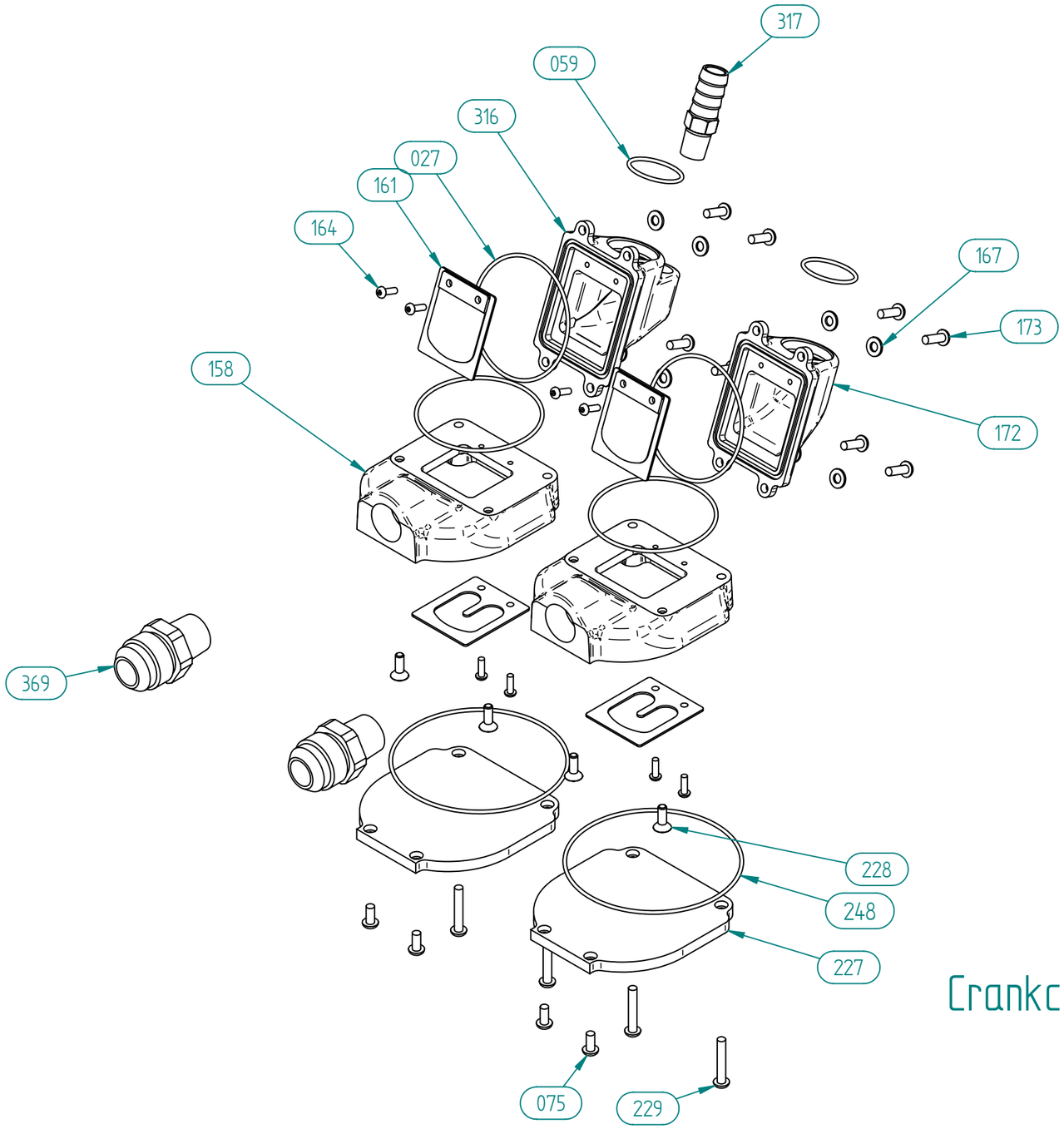
DRAWING NO.

TITLE:
Generic Engine exploded views 2

SIZE	MATERIAL: SEE PARTS LIST	REV.
A3	CONDITION: AS PER PART DRAWINGS	27

SCALE: NOTED	WEIGHT: N/A	SHEET 2 OF 17

7 6 5 4 3 2 1



Manifest No.	Title	Material	Qty	Mass
027	O-ring 1.78 x 60ID	Silicone	4	0.002 kg
059	O-Ring, 25.1 ID x 1.78mm	Viton	2	0.001 kg
075	BHSCS 8-32 x 0.375 UNC	Steel Grade 12.9	4	0.007 kg
158	Outlet, Scavenge Primary	Aluminum Alloy A356.0-T6	2	0.258 kg
161	Reed Valve (RL06 set)	Stainless steel	4	0.058 kg
164	M3 x 10 BHSCS	Steel Grade 12.9	8	0.006 kg
167	No. 8 Washer, SAE	Mild Steel	8	0.003 kg
172	Crankcase Breather Inlet	Aluminum Alloy A 356.0 - T6	1	0.080 kg
173	BHSCS. 8-32 UNC x 0.5	Steel Grade 12.9	8	0.016 kg
227	Outlet tub cover	6mm Al 6061	2	0.213 kg
228	#8-32 UNC x 0.5 FHSCS	Steel Grade 8.8	4	0.007 kg
229	No. 8-32 UNC x 1.0 BHSCS	Steel Grade 10.9	4	0.013 kg
248	O'ring 1.78mm X 85.0mm ID	Viton	2	0.002 kg
316	Turbo drain manifold	Aluminum Alloy A 356.0 - T6	1	0.097 kg
317	1/2" hose tail 1/4" NPTmale	Aluminum, 6061-T6	1	0.009 kg
369	Oil Union 12JIC - 1/2" NPT	Aluminum, 6061-T6	2	0.080 kg

Crankcase Scavenge System
1:2.5

NEXT ASSY. | USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED:
INTERPRET GEOMETRIC TOLERANCING TO ANSI Y 14.5 1994
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ANGULAR = ±0.3°
BREAK EDGES 0.3
CORNER RADII 0.3
MACHINE FINISH 125µin/3.2µm Ra
DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	DCB	10 NOV 05
CHECKED	WLW	10 NOV 05
ENG. APPR.		
MFG. APPR.		
Q.A.		

COMMENTS:

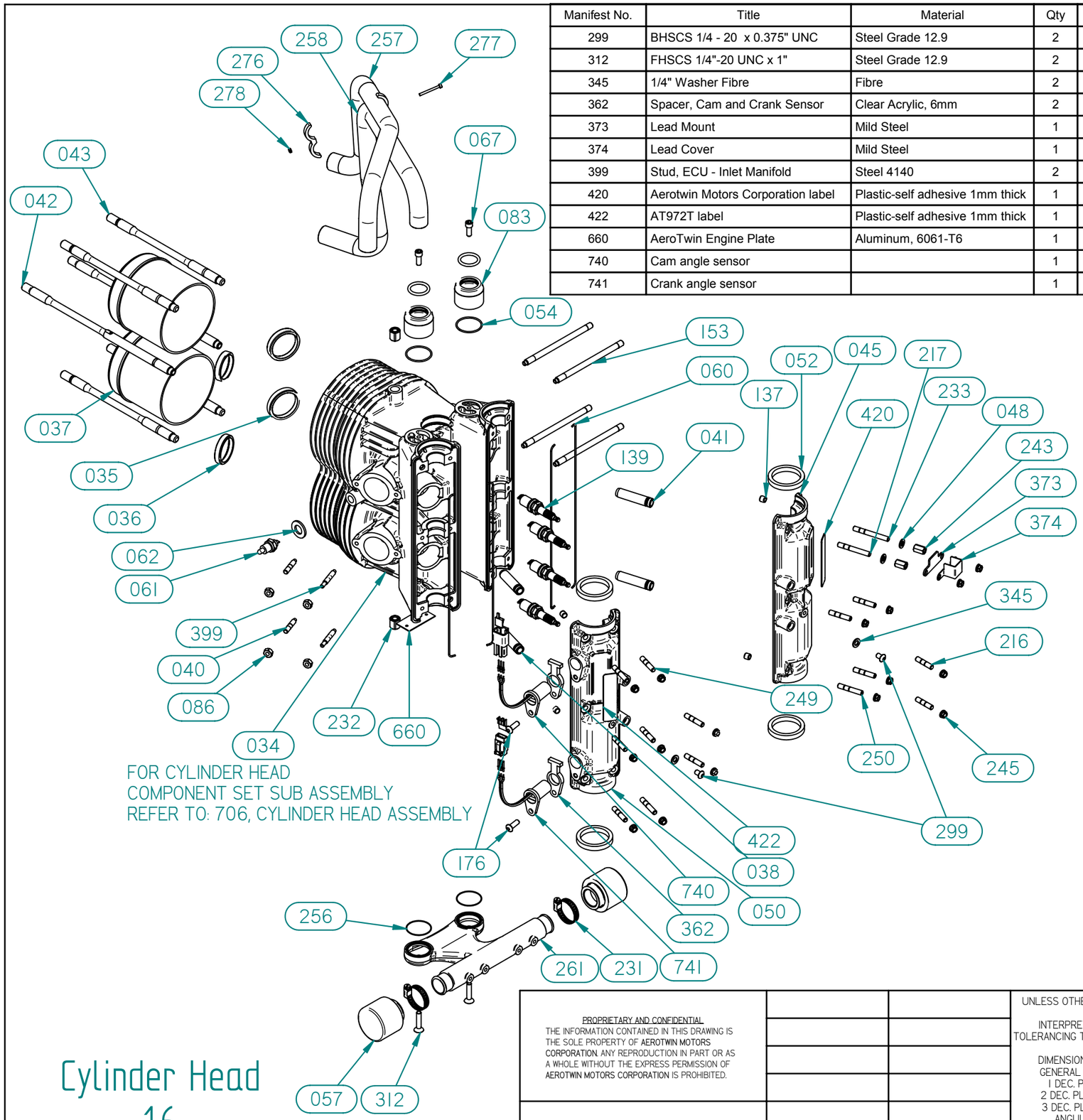
DRAWING NO.

TITLE:
Generic Engine exploded views 2

SIZE A3 | MATERIAL: SEE PARTS LIST | REV. 27
CONDITION: AS PER PART DRAWINGS

SCALE: NOTED | WEIGHT: N/A | SHEET 3 OF 17

7 6 5 4 3 2 1



FOR CYLINDER HEAD
COMPONENT SET SUB ASSEMBLY
REFER TO: 706, CYLINDER HEAD ASSEMBLY

Cylinder Head
1:6

Manifest No.	Title	Material	Qty	Mass
299	BHSCS 1/4 - 20 x 0.375" UNC	Steel Grade 12.9	2	0.007 kg
312	FHSCS 1/4"-20 UNC x 1"	Steel Grade 12.9	2	0.017 kg
345	1/4" Washer Fibre	Fibre	2	0.000 kg
362	Spacer, Cam and Crank Sensor	Clear Acrylic, 6mm	2	0.010 kg
373	Lead Mount	Mild Steel	1	0.011 kg
374	Lead Cover	Mild Steel	1	0.009 kg
399	Stud, ECU - Inlet Manifold	Steel 4140	2	0.017 kg
420	Aerotwin Motors Corporation label	Plastic-self adhesive 1mm thick	1	0.033 kg
422	AT972T label	Plastic-self adhesive 1mm thick	1	0.033 kg
660	AeroTwin Engine Plate	Aluminum, 6061-T6	1	0.003 kg
740	Cam angle sensor		1	0.037 kg
741	Crank angle sensor		1	0.035 kg

Manifest No.	Title	Material	Qty	Mass
034	Cylinder Head AA356	Aluminum, 356	1	7.020 kg
035	Valve Seat, Inlet: 1.875 x .3125	C/Beryllium	2	0.067 kg
036	Valve Seat, Exhaust: 1.640 x .3125	C/Berryllium	2	0.047 kg
037	Sleeve, Cylinder	Iron SG	2	1.432 kg
038	Valve Guide Inlet	Aluminium Bronze Alloy	2	0.019 kg
040	Inlet Stud	Steel 9310	2	0.015 kg
041	Valve Guide Exhaust	Aluminium Bronze Alloy	2	0.000 kg
042	Stud, Inner	Steel 4140, H/T Rc 45	2	0.358 kg
043	Head Stud, Outer	4340 Steel, H/T Rc 45	4	0.516 kg
045	Camcover, Exhaust-as machined	Cast Aluminum, A356.0 - T6	1	0.406 kg
048	1/4" Washer Narrow	Brass	2	0.002 kg
050	Camcover, Inlet	Cast Aluminum, A356.0 - T6	1	0.435 kg
052	Cam Seal, 40 X 50 X 7	Nulip	4	0.156 kg
054	O-Ring, 33.0ID X 1.78mm	Silicone	2	0.001 kg
057	Filter	K & N, 62-1370	2	0.338 kg
060	O-Ring	1.78mm X 287mm	4	0.000 kg
061	Engine Temperature Probe: 0.280.130.026	Comp	1	0.028 kg
062	Washer, M12 Narrow	Steel	1	0.007 kg
067	SHCS 1/4" X 0.625"	Grade 8.8	2	0.014 kg
070	O-Ring, 23.39 ID X 3.53mm	Viton	2	0.002 kg
083	PCV Transfer manifold	Aluminum, 6061-T6	2	0.089 kg
086	1/4-28 UNF Nut	Steel Grade 8	4	0.015 kg
137	Dowel, Cam cover	Mild Steel	4	0.003 kg
139	Sparkplug, BCPR 7ES		4	0.167 kg
153	Exhaust Stud for support	Steel 9310	4	0.201 kg
176	BHSCS 1/4 - 20 x 0.75" UNC	Steel Grade 12.9	2	0.012 kg
216	Stud 0.25" x 1.2"	Steel, 4140	2	0.014 kg
217	Stud 0.25" x 2"	Steel, 4140	1	0.012 kg
231	Pipe Clamp, 34mm	Steel	2	0.022 kg
232	M14 x 1.5 to M8 x 1.25 Keyed insert	Mild Steel	2	0.025 kg
233	Stud 0.25" x 2.25"	Steel, 4140	1	0.013 kg
243	Hex nut 0.25" long	Steel, 4140	2	0.013 kg
245	Nut flanged prevailing torque 0.25"UNF	Steel, 4140	16	0.030 kg
249	Stud 0.25" x 1.34 long	Steel, 4140	9	0.074 kg
250	Stud 0.25" x 1.5 long	Steel, 4140	3	0.028 kg
256	O'ring, 1.0 X 33.0 ID, Viton	Viton	2	0.000 kg
257	Inlet breather tube	Aluminum, 6061-T6	1	0.170 kg
258	Exhaust Breather tube	Aluminum, 6061-T6	1	0.179 kg
261	PCV Manifold as Machined	Aluminum, AA356	1	0.362 kg
276	Breather Tube Clamp - Crankcase	Mild Steel	2	0.027 kg
277	SHCS M3 X 30	Steel grade 12.9	1	0.002 kg
278	M3, Nyloc Nut	Steel	1	0.000 kg

NEXT ASSY. | USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED:

INTERPRET GEOMETRIC TOLERANCING TO ANSI Y 14.5 1994

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ANGULAR = ±0.3°

BREAK EDGES 0.3
CORNER RADII 0.3
MACHINE FINISH 125µin/3.2µm Ra

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	DCB	10 NOV 05
CHECKED	WLW	10 NOV 05
ENG. APPR.		
MFG. APPR.		
Q.A.		

COMMENTS:

DRAWING NO.

TITLE:

Generic Engine exploded views 2

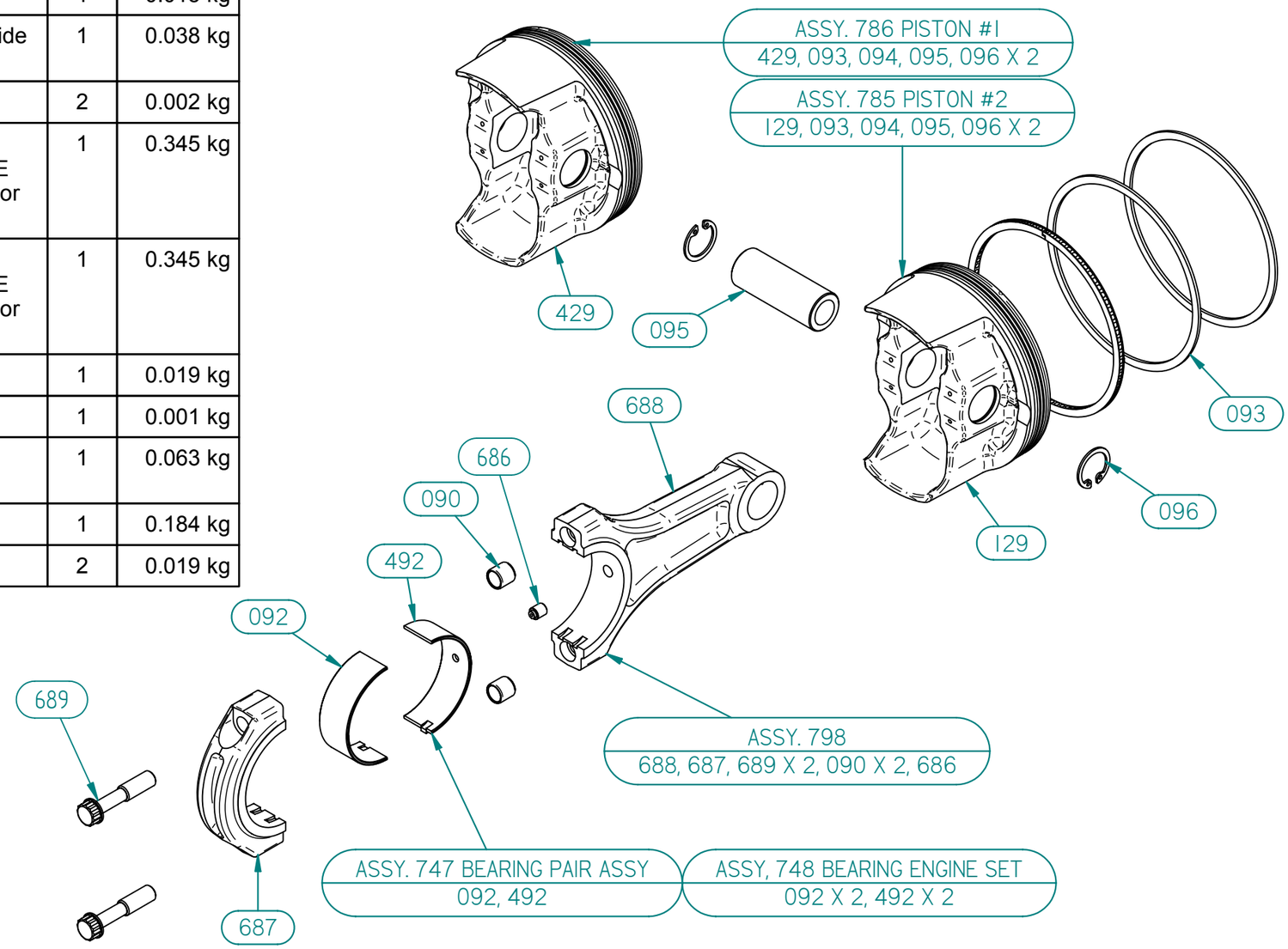
SIZE A3 | MATERIAL: SEE PARTS LIST | REV. 27

CONDITION: AS PER PART DRAWINGS

SCALE: NOTED | WEIGHT: N/A | SHEET 4 OF 17

7 6 5 4 3 2 1

Manifest No.	Title	Material	Qty	Mass
090	Dowel, Connecting Rod	Steel 1040	2	0.004 kg
092	Conrod Big End Bearing	Clevite 77	1	0.020 kg
093	Ring Set Gapless 01-08	Composite R4003	2	0.029 kg
093	Ring Set Gapless 01-08	steel	1	0.015 kg
095	Gudgeon Pin	Ti 6Al4V, Titanium Nitride finish	1	0.038 kg
096	Circlip, 20 x 1.0 int	Steel	2	0.002 kg
129	Aerotwin Piston 4in, #2	Forged Hyper Eutectic Al,or MSFC398, or SAE A390.0, or Mahle 126, or Zolloy Z16, or AE425.	1	0.345 kg
429	Aerotwin Piston 4in, #1	Forged Hyper Eutectic Al,or MSFC398, or SAE A390.0, or Mahle 126, or Zolloy Z16, or AE425.	1	0.345 kg
492	Conrod Big End Bearing, Machined	Clevite 77	1	0.019 kg
686	Conrod Bearing Locator	Steel 4140	1	0.001 kg
687	Conrod Cap,120mm Al forged, Machined	Aluminum, 7075-T6	1	0.063 kg
688	Conrod,120mm Al forged, Machined	Aluminum, 7075-T6	1	0.184 kg
689	Conrod Bolt Ti	Titanium Alloy	2	0.019 kg



Piston & Conrod
1:2.5

aerotwin

NEXT ASSY.	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED:

INTERPRET GEOMETRIC TOLERANCING TO ANSI Y 14.5 1994

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3 DEC. PLACES = ±0.10
ANGULAR = ±0.3°

BREAK EDGES 0.3
CORNER RADII 0.3
MACHINE FINISH 125µin/3.2µm Ra

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	DCB	10 NOV 05
CHECKED	WLW	10 NOV 05
ENG. APPR.		
MFG. APPR.		
Q.A.		

COMMENTS:

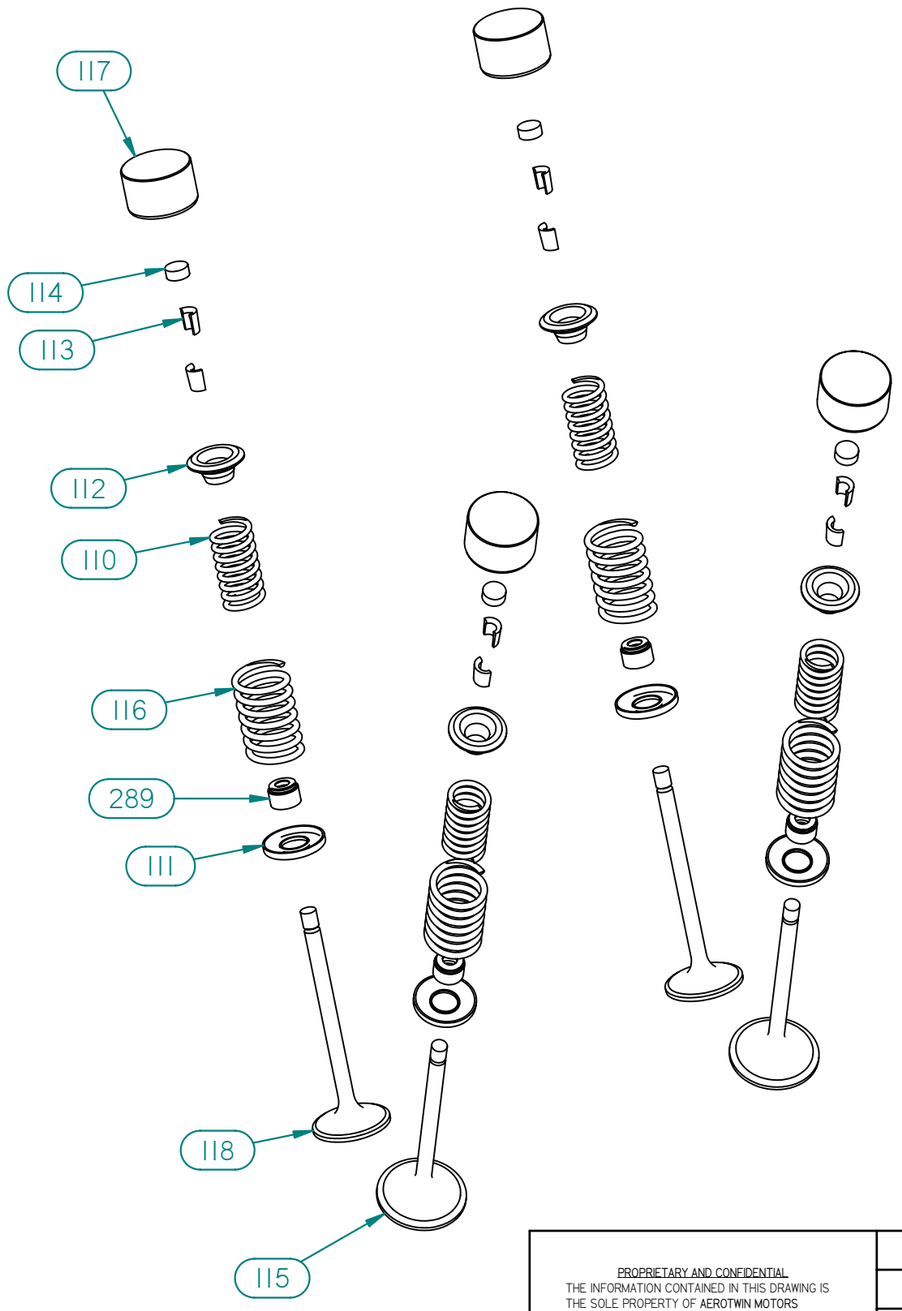
DRAWING NO.

TITLE:
Generic Engine exploded views 2

SIZE	MATERIAL: SEE PARTS LIST	REV.
A3	CONDITION: AS PER PART DRAWINGS	27

SCALE: NOTED | WEIGHT: N/A | SHEET 5 OF 17

7 6 5 4 3 2 1



Valves
1:3

Manifest No.	Title	Material	Qty	Mass
110	Spring, Inner: C14592	Steel	4	0.000 kg
111	Seat, Spring: C27481	Steel	4	0.023 kg
112	Keeper, Valve C27480	Steel 17-4-1150	4	0.064 kg
113	Collet, Valve C27482	Steel	8	0.014 kg
114	Shim, Hat	Steel 9310, Rc 45	4	0.012 kg
115	Valve, Inlet	Stainless Steel (NK-844)	2	0.000 kg
116	Spring, Outer, C14591	Steel	4	0.138 kg
117	Follower, Cam: C44010	Chilled Iron	4	0.000 kg
118	Valve, Exhaust	Stainless Steel (XH428)	2	0.000 kg
289	Seal, Valve Stem Guide	Rubber	4	0.004 kg

aerotwin

NEXT ASSY. | USED ON

APPLICATION

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INTERPRET GEOMETRIC TOLERANCING TO ANSI Y 14.5 1994

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ANGULAR = ±0.3°

BREAK EDGES 0.3
CORNER RADII 0.3
MACHINE FINISH 125µin/3.2µm Ra

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	DCB	10 NOV 05
CHECKED	WLW	10 NOV 05
ENG. APPR.		
MFG. APPR.		
Q.A.		

COMMENTS:

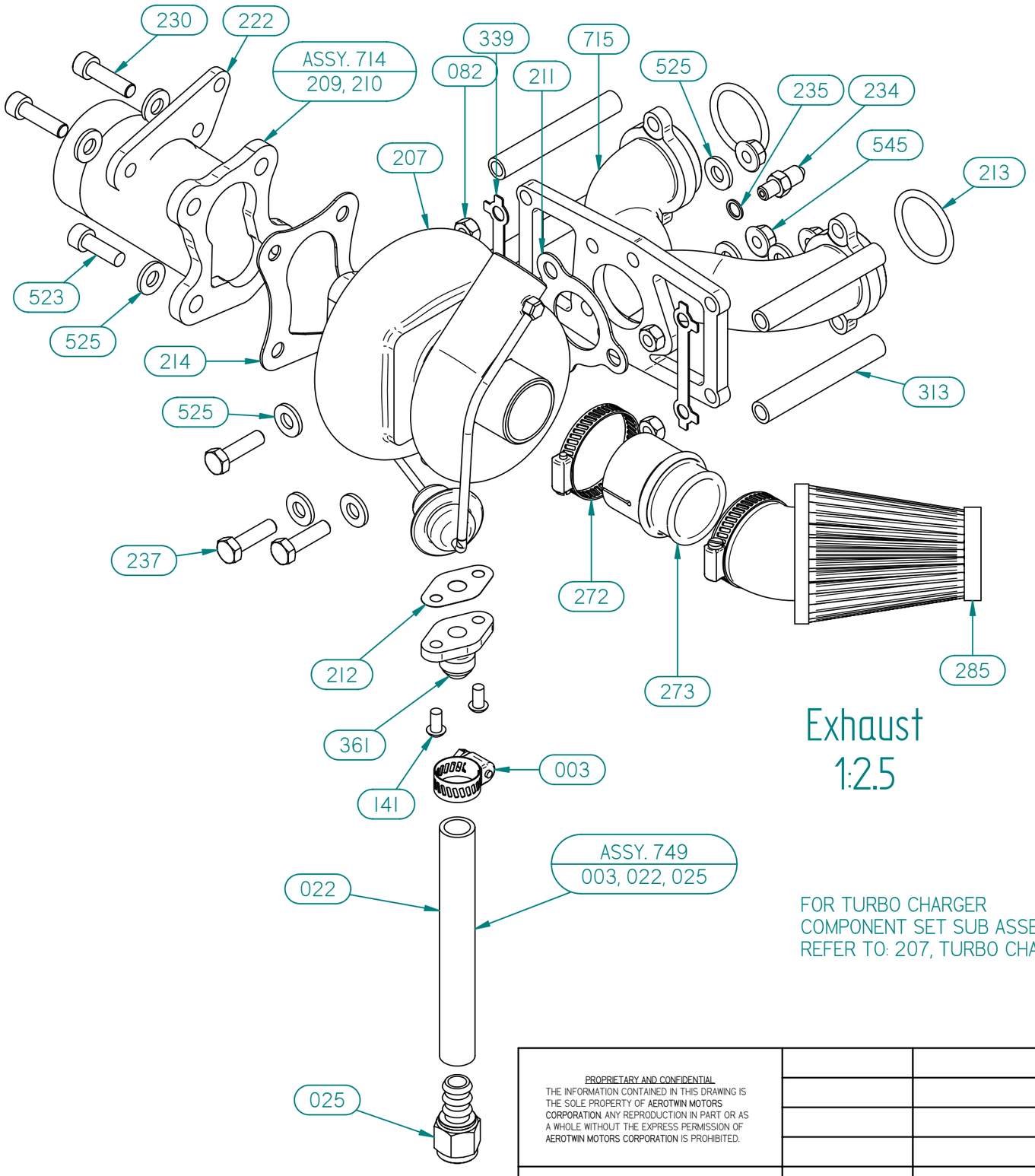
DRAWING NO.

TITLE:
Generic Engine exploded views 2

SIZE A3 | MATERIAL: SEE PARTS LIST | REV. 27
CONDITION: AS PER PART DRAWINGS

SCALE: NOTED | WEIGHT: N/A | SHEET 6 OF 17

7 6 5 4 3 2 1



Exhaust
1:2.5

Manifest No.	Title	Material	Qty	Mass
003	Hose Clamp, 0.5" - 1.0"	Stainless Steel	1	0.018 kg
022	#8 Oil Tubing, 320mm	Rubber	1	0.294 kg
025	#8 Union, Aeroquip - FCM1513	Aluminum Alloy	1	0.019 kg
082	5/16 UNF Nut	Grade 8	4	0.022 kg
141	BHSCS, M6 x 1 x 12	Steel Grade 10.9	2	0.007 kg
207	Turbo Complete: RHB32-Vi32	Comp	1	2.690 kg
211	Turbo Exhaust Gasket, 3 hole	Composite Fibre	1	0.006 kg
212	Turbo Gasket-drain	Paper	1	0.002 kg
213	Exhaust seal	Vesrah Exhaust Ring	2	0.024 kg
214	Turbo Gasket, 4 hole	Composite Fibre	1	0.011 kg
222	Turbo Brace	Steel 4140	1	0.090 kg
230	SHCS M8 X 30	Grade 12.9	2	0.038 kg
234	Pipe fitting-3JIC to M8	Steel	1	0.015 kg
235	Copper Washer, 8.3 x 1.0 x 11.4	Copper	1	0.000 kg
237	M8 x 1.25 x 30mm Bolt	Steel Grade 8.8	3	0.054 kg
272	Pipe Clamp, 38/57mm	Stainless steel	1	0.019 kg
273	Filter mount	Aluminum, AA356-T6	1	0.069 kg
285	Air filter assembly		1	
313	Exhaust support spacer	Stainless Steel, 304	4	0.199 kg
339	Lock plate	Stainless Steel, 304	2	0.010 kg
361	Union, Turbo Drain	Steel 1040	1	0.064 kg
523	SHCS, M8 x 1.25 x 25	Steel Grade 12.9	2	0.034 kg
525	Washer, M8 narrow	Steel	10	0.038 kg
545	Nut, M8 Flanged, Prevailing Torque	Steel	3	0.024 kg
714	Exhaust Assembly	steel	1	0.462 kg
715	Turbo Exhaust Manifold, aero & helo		1	0.648 kg

FOR TURBO CHARGER
COMPONENT SET SUB ASSEMBLY
REFER TO: 207, TURBO CHARGER ASSEMBLY

NEXT ASSY. | USED ON

APPLICATION

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BREAK EDGES 0.3
CORNER RADII 0.3
MACHINE FINISH 125µin/3.2µm Ra
DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	DCB	10 NOV 05
CHECKED	WLW	10 NOV 05
ENG. APPR.		
MFG. APPR.		
Q.A.		

COMMENTS:

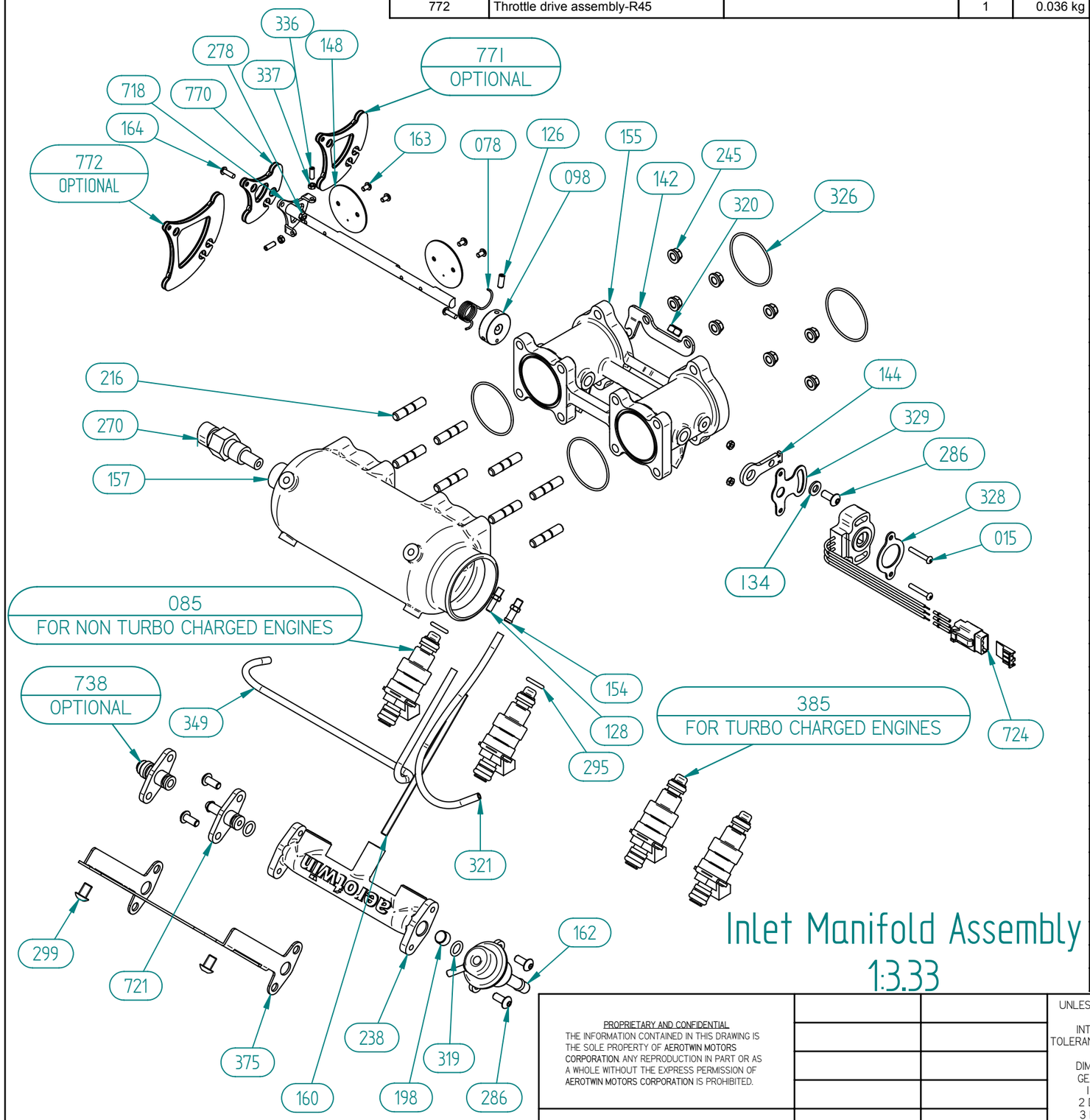
DRAWING NO.

TITLE:
Generic Engine exploded views 2

SIZE A3 | MATERIAL: SEE PARTS LIST | REV. 27
CONDITION: AS PER PART DRAWINGS
SCALE: NOTED | WEIGHT: N/A | SHEET 7 OF 17

7 6 5 4 3 2 1

Manifest No.	Title	Material	Qty	Mass
772	Throttle drive assembly-R45		1	0.036 kg



Inlet Manifold Assembly
1:3.33

Manifest No.	Title	Material	Qty	Mass
015	BHCS M3 x 20	Steel, grade 12.9	2	0.003 kg
078	Spring- throttle return	Stainless Steel, 304	1	0.002 kg
085	Fuel injector	Composite Plastic/Metalic	2	0.322 kg
098	Spring tensioner	Steel, 6061	1	0.026 kg
126	Grub screw, M4 x 10	Steel grade 12.9	1	0.001 kg
128	Vacuum Pickup-ECU	Brass	1	0.003 kg
134	Washer, M5 Narrow		1	0.001 kg
142	Throttle Cable Anchor	Mild Steel	1	0.013 kg
144	TPS Mount adjuster	Mild steel	1	0.008 kg
148	Throttle Disc	Steel 4140	2	0.018 kg
154	Vacuum Pickup	Brass	1	0.004 kg
155	Intake Manifold as Machined	Aluminum, AA356	1	0.312 kg
157	Inlet Plenum	Aluminum, AA356	1	0.429 kg
160	Fuel Rail Stud	Steel	1	0.017 kg
162	Fuel Pressure Regulator	Mild Steel	1	0.000 kg
163	M3x5 SBHCS	Steel	4	0.000 kg
164	M3 x 10 BHSCS	Steel Grade 12.9	2	0.002 kg
198	1/8" NPT Dryseal Plug	1/8" NPT Dryseal Plug	2	0.007 kg
216	Stud 0.25" x 1.2"	Steel, 4140	8	0.058 kg
238	Fuel Rail Bare	Aluminum, AA356	1	0.146 kg
245	Nut flanged prevailing torque 0.25"UNF	Steel, 4140	8	0.015 kg
270	Air Temperature Probe, GM 25037388	Composite	1	0.027 kg
278	M3, Nyloc Nut	Steel	3	0.001 kg
286	M5 X 12 BHSCS	Steel	5	0.014 kg
295	O-Ring 2.4 x 9.8ID silicon	Silicone	2	0.000 kg
299	BHSCS 1/4 - 20 x 0.375" UNC	Steel Grade 12.9	2	0.007 kg
319	O-Ring 2 x 8 ID	Viton	2	0.000 kg
320	10-24 Nyloc Nut	Steel	1	0.003 kg
321	Tubing ID 4,0mm Rubber	Rubber	1	0.003 kg
326	O'ring 1.5 X 40.0 ID	Viton	4	0.001 kg
328	TPS retainer	Steel	1	0.004 kg
329	TPS Mount adjuster	Mild Steel	1	0.005 kg
336	Grub Screw 5 NC X 9.5 Long	Alloy Steel (ASTM F835M)	2	0.001 kg
337	1/8" BSW Nut Plain	Steel	2	0.001 kg
349	ECU air pressure line	Nitrile tube	1	0.005 kg
375	Rail anchor	Mild Steel	1	0.082 kg
385	385, Bosch Fuel Injector 0-280-156-186	Composite	2	0.246 kg
718	Throttle shaft and stop assembly		1	0.058 kg
721	Fuel inlet		1	0.000 kg
724	TPS Assembly		1	0.000 kg
738	JIC fuel inlet		1	0.000 kg
770	Throttle drive assembly-R25		1	0.018 kg
771	Throttle drive assembly-R35		1	0.027 kg

aerotwin

NEXT ASSY. | USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED:

INTERPRET GEOMETRIC TOLERANCING TO ANSI Y 14.5 1994

DIMENSIONS ARE IN mm
GENERAL TOLERANCES:
1 DEC. PLACE = ±0.5
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3 DEC. PLACES = ±0.10
ANGULAR = ±0.3°

BREAK EDGES 0.3
CORNER RADII 0.3
MACHINE FINISH 125µin/3.2µm Ra

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	DCB	10 NOV 05
CHECKED	WLW	10 NOV 05
ENG. APPR.		
MFG. APPR.		
Q.A.		

COMMENTS:

DRAWING NO.

TITLE:

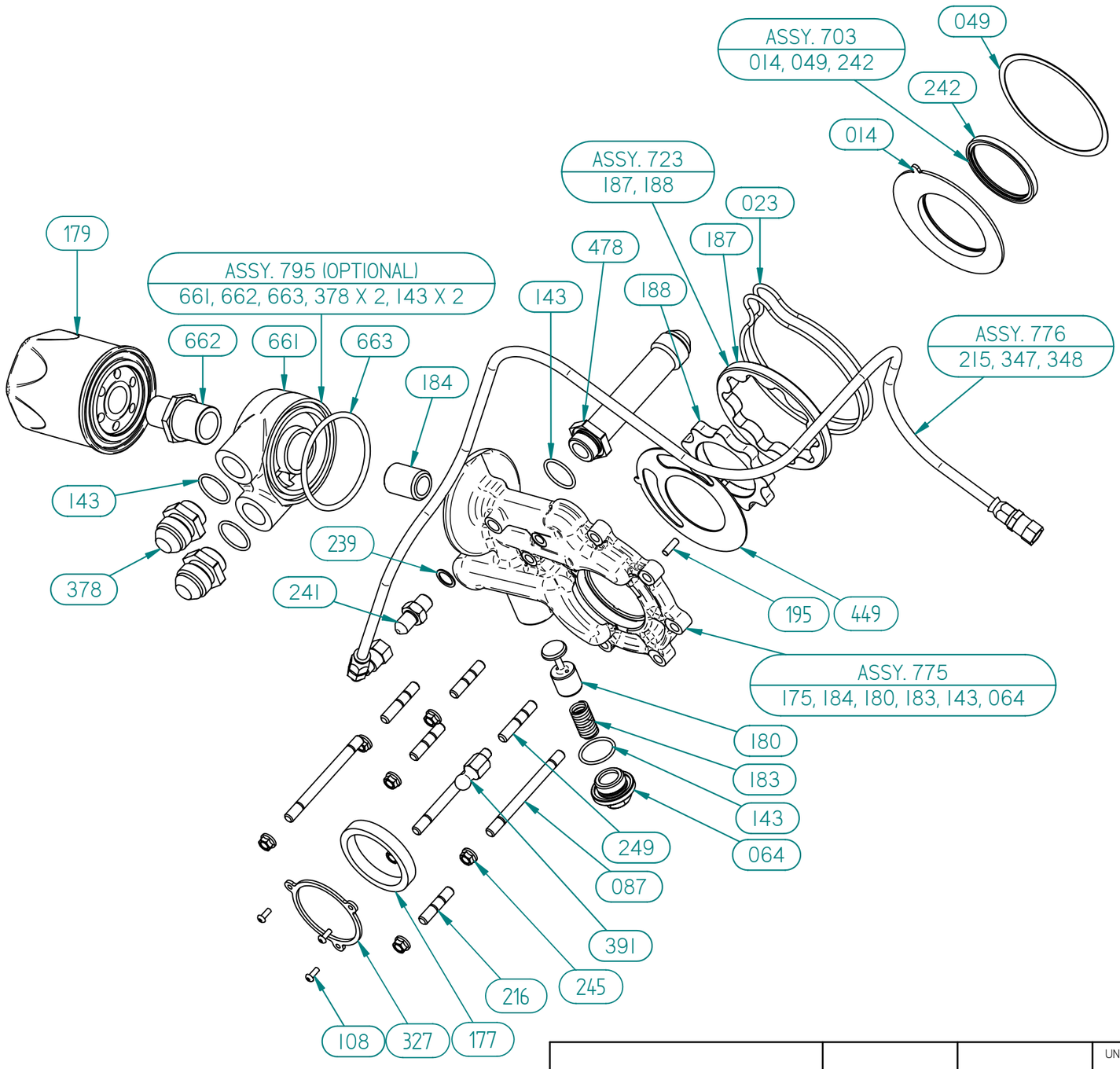
Generic Engine exploded views 2

SIZE A3 | MATERIAL: SEE PARTS LIST | REV. 27

CONDITION: AS PER PART DRAWINGS

SCALE: NOTED | WEIGHT: N/A | SHEET 8 OF 17

7 6 5 4 3 2 1



Oil Pump

Manifest No.	Title	Material	Qty	Mass
014	Oil Pump Thrust Plate with seal mount	Brass-Alloy 360, half hard, ASTM B16	1	0.077 kg
023	O-Ring, 94.9 ID x 2.6mm	AS 568-154, Viton or Silicon	2	0.005 kg
049	Oil pump thrust plate shim	Brass shim stock	1	0.000 kg
064	Pressure relief spring retainer	Aluminum, 6061-T6	1	0.016 kg
087	Stud 0.25" x 76.5mm	Steel, 4140	3	0.056 kg
108	BHCS M3 x 8	Steel, grade 12.9	3	0.002 kg
143	O-Ring, 1.78mm x 20.3 ID	Viton	2	0.001 kg
143	O-Ring, 1.78mm x 20.3 ID	Viton	2	0.001 kg
175	Oil Pump Housing,775 without Oring grooves Plus retainer thread.	Aluminum Alloy A356.0 - T6	1	0.328 kg
177	Crank Seal: 52 x 42 x 7	Nulip	1	0.009 kg
179	Oil Filter RZ442	Comp	1	0.341 kg
180	Presure Relief Piston	Steel 17-4 PH	1	0.019 kg
183	Pressure Relief Spring	HT Carbon Steel Wire	1	0.004 kg
184	Filter Stud	Mild Steel	1	0.033 kg
187	Oil Pump Gear, Outer	Steel	1	0.115 kg
188	Oil Pump Gear, Inner	Steel	1	0.079 kg
195	Retaining Pin	Steel	1	0.001 kg
215	Oil line-Turbo feed	Composite	1	0.188 kg
216	Stud 0.25" x 1.2"	Steel, 4140	3	0.022 kg
239	M10 Banjo Washer	Aluminum	1	0.000 kg
241	Pipe fitting-3JIC to M10	Steel	1	0.019 kg
242	Seal	SD 45 x 52 x 4	1	0.000 kg
245	Nut flanged prevailing torque 0.25"UNF	Steel, 4140	7	0.013 kg
249	Stud 0.25" x 1.34 long	Steel, 4140	2	0.016 kg
327	Seal Retainer	Mild Steel	1	0.009 kg
347	Pipe fitting -3 JIC female 0	Steel	1	0.016 kg
348	Pipe fitting -3 JIC female 90	Steel	1	0.025 kg
378	-10 JIC - 3/4UNF fitting	Aluminum, 6061-T6	2	0.039 kg
391	Damper Pivot	Steel 1040	1	0.014 kg
449	Backing Plate	Brass	1	0.025 kg
478	Oil Feed Tube	Aluminum, 6061-T6	1	0.049 kg
661	Cooler Boss, as Machined	Aluminum, 356	1	0.197 kg
662	Cooler Union	Steel 4140	1	0.080 kg
663	O-Ring, 3.5 x 56.0 ID	Viton	1	0.003 kg

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NEXT ASSY. | USED ON

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Q.A.		

COMMENTS:

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TITLE:

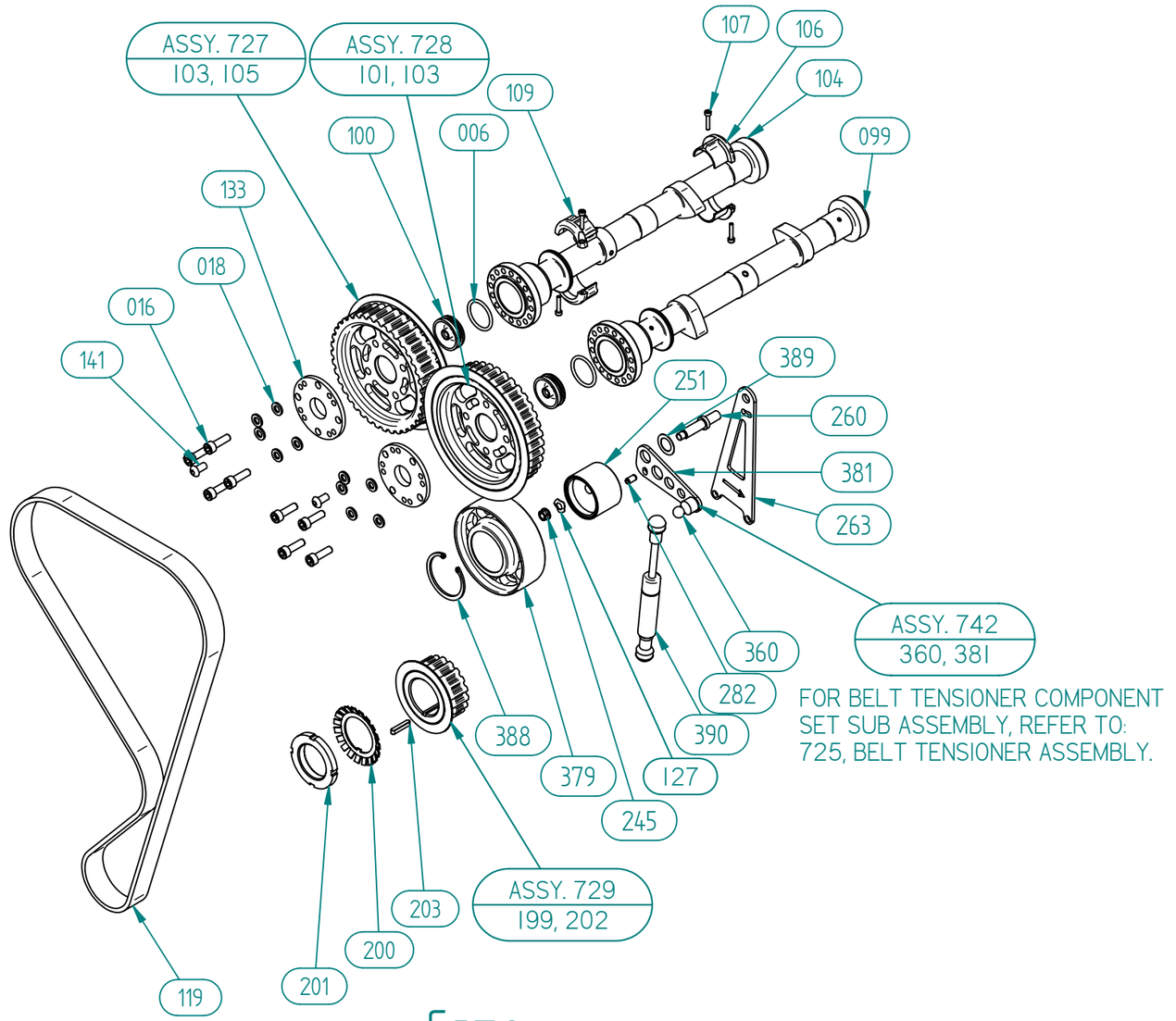
Generic Engine exploded views 2

SIZE A3 | MATERIAL: SEE PARTS LIST | REV. 27

CONDITION: AS PER PART DRAWINGS

SCALE: NOTED | WEIGHT: N/A | SHEET 9 OF 17

7 6 5 4 3 2 1



Cams
1:5

Manifest No.	Title	Material	Qty	Mass
006	O-Ring, 25.1 ID X 2.6mm	Viton	2	0.001 kg
016	SHCS M6 x 1.0 x 20	Steel Grade 12.9	8	0.059 kg
018	Washer, M6 Narrow	Steel	10	0.010 kg
099	Exhaust Cam, Ground	Iron/SG QT600-3 or equivalent-heat treated	1	0.963 kg
100	Cam Plug	Aluminium 6061	2	0.023 kg
104	Inlet Cam, Ground	Iron-SG QT600-3 or equivalent-heat treated	1	0.963 kg
106	Cam Sensor Trigger	Mild Steel	1	0.019 kg
107	SHCS, M3 x 0.5 x 16	Stainless Steel 316	4	0.005 kg
109	Crank Sensor	Mild Steel	1	0.023 kg
119	Belt, Cam Drive, 45L100	Rubber	1	0.152 kg
127	Washer, Spring 1/4"	Copper, Hardened	1	0.000 kg
133	Cam Wheel Adjuster	Aluminium 7075	2	0.050 kg
141	BHSCS, M6 x 1 x 12	Steel Grade 10.9	2	0.007 kg
200	Lock Washer SKF M35	SKF MB7	1	0.012 kg
201	Lock Nut SKF M35	SKF KM 7	1	0.070 kg
203	Key, Camwheel	Stainless Steel 316	1	0.003 kg
245	Nut flanged prevailing torque 0.25"UNF	Steel, 4140	1	0.002 kg
251	Tensioner	Steel	1	0.212 kg
260	Tensioner Pivot	Steel 4140	1	0.020 kg
263	Tensioner Pedestal	Stainless Steel, 316	1	0.083 kg
282	Roll Pin 5,0 X 10,0	Steel	1	0.001 kg
379	Tensioner Pulley	Aluminum, 7075-T6	1	0.139 kg
388	Circlip	Spring Steel	1	0.005 kg
389	Shim	Brass, yellow brass	1	0.000 kg
390	Damper	Steel	1	0.145 kg
727	Inlet cam wheel assembly		1	0.321 kg
728	Exhaust cam wheel assembly		1	0.328 kg
729	Primary cam pully assembly		1	0.123 kg
742	Tensioner Lever Assembly		1	0.000 kg

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NEXT ASSY. | USED ON

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CHECKED	WLW	10 NOV 05
ENG. APPR.		
MFG. APPR.		
Q.A.		

COMMENTS:

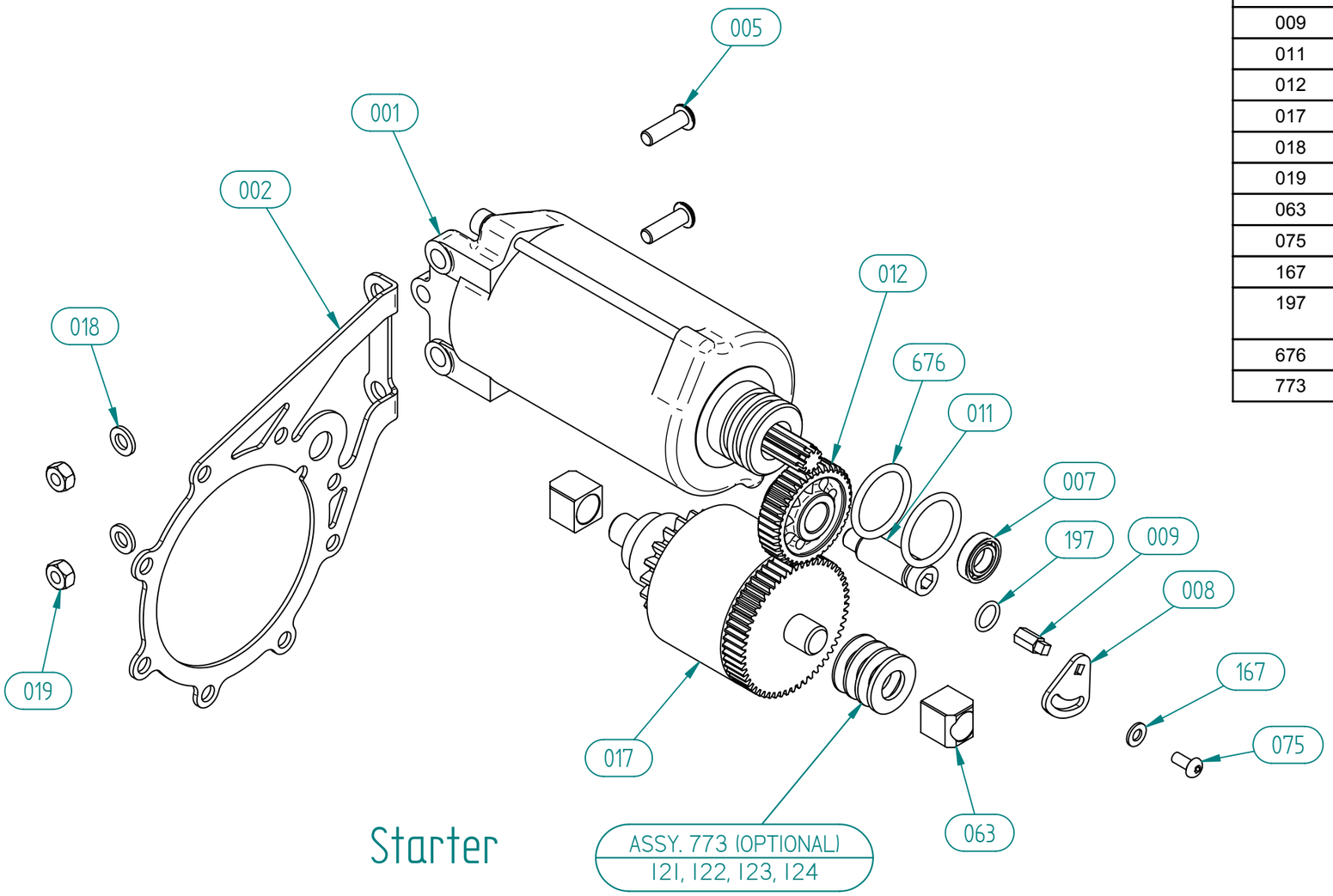
DRAWING NO.

TITLE:
Generic Engine exploded views 2

SIZE A3 | MATERIAL: SEE PARTS LIST | REV. 27
CONDITION: AS PER PART DRAWINGS
SCALE: NOTED | WEIGHT: N/A | SHEET 10 OF 17

7 6 5 4 3 2 1

Manifest No.	Title	Material	Qty	Mass
001	Motor, Starter	Kawasaki	1	3.724 kg
002	Starter Mount	Steel	1	0.090 kg
005	BHSCS M6 x 1.0 x 20	Steel Grade 12.9	2	0.011 kg
007	Deep Groove Ball Bearing 61800	618002RS	1	0.008 kg
008	Lock Plate	2mm Mild Steel Sheet	1	0.006 kg
009	Lock Plate Tab	Mild Steel Hex Bar- 6mm A/F	1	0.003 kg
011	Idler Gear Pin	Brass	1	0.025 kg
012	Starter Idler Gear	4340 Steel, H/T Rc 45	1	0.078 kg
017	Gear, Inertia: SMU 5001	Kawasaki	1	1.259 kg
018	Washer, M6 Narrow	Steel	2	0.002 kg
019	Nut, M6 Nylock	Steel Grade 8	2	0.005 kg
063	Bush, Inertia Gear: SMU 9101	Al Bronze	2	0.026 kg
075	BHSCS 8-32 x 0.375 UNC	Steel Grade 12.9	1	0.002 kg
167	No. 8 Washer, SAE	Mild Steel	1	0.000 kg
197	Seal, Transfer Shaft, 9.5 ID x 1.5 mm	Viton	1	0.000 kg
676	O-Ring 3.0 x 25 ID Viton	Viton	2	0.001 kg
773	Thrust Plate Set, Starter		1	0.015 kg



Starter

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APPLICATION	

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Q.A.		

COMMENTS:

DRAWING NO.

TITLE:

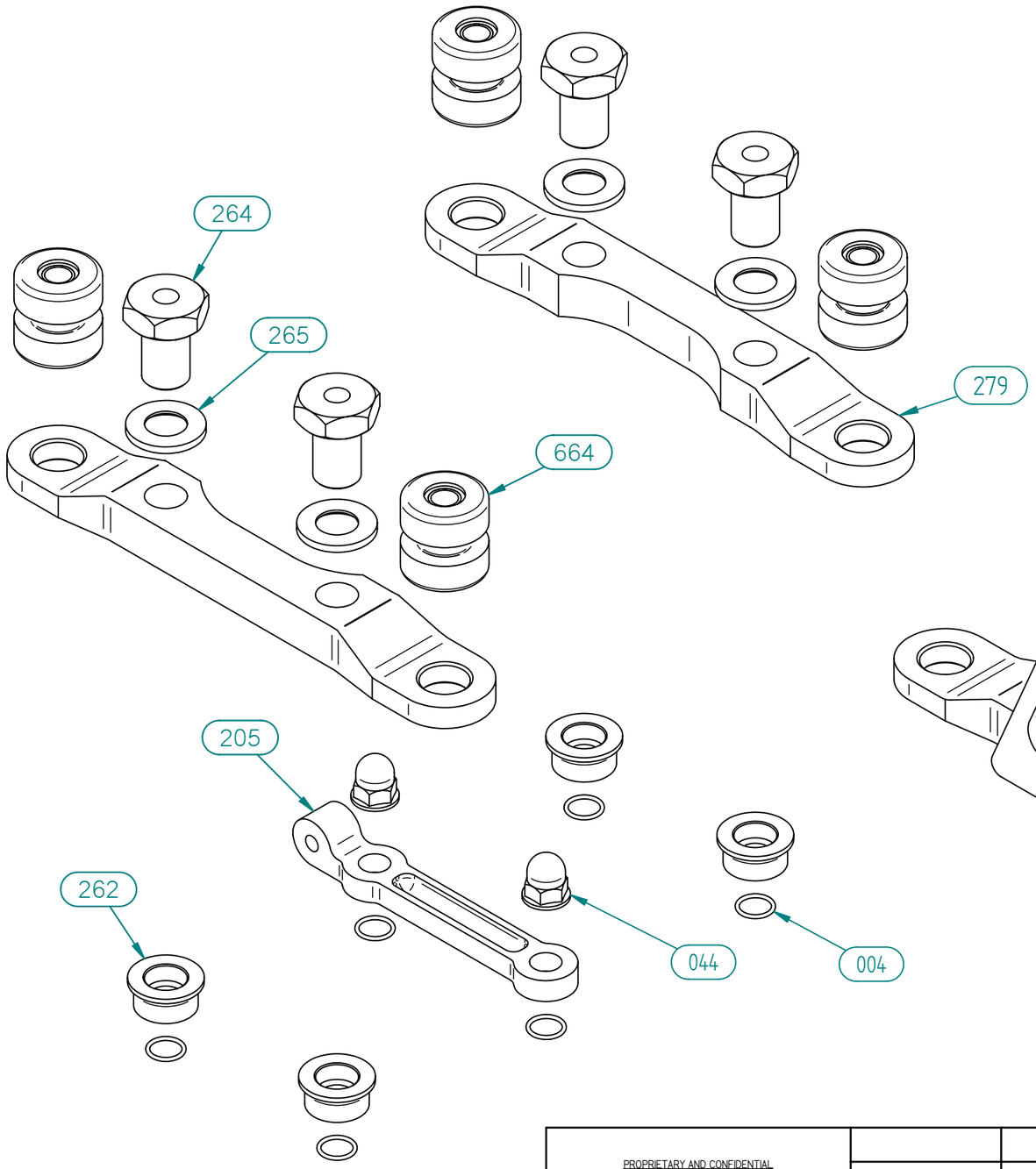
Generic Engine exploded views 2

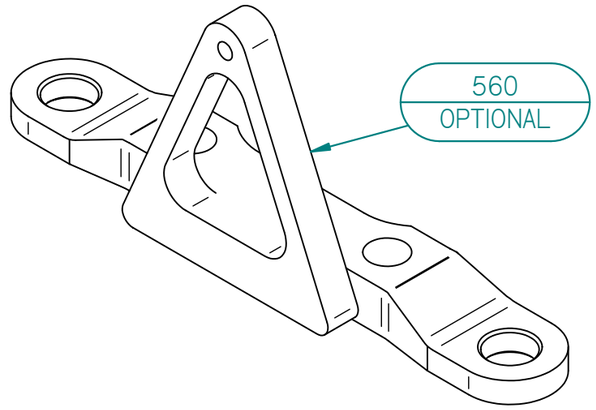
SIZE	MATERIAL: SEE PARTS LIST	REV.
A3	CONDITION: AS PER PART DRAWINGS	27

SCALE: NOTED	WEIGHT: N/A	SHEET 11 OF 17

7 6 5 4 3 2 1

Manifest No.	Title	Material	Qty	Mass
004	O-Ring, 12.0ID X 1.5mm	Silicone	6	0.000 kg
044	Crank Case Nut	Steel 9310	2	0.000 kg
205	Stabilizer Arm	Aluminum, 7075-T6	1	0.052 kg
262	Mount Spacer	Mild Steel	4	0.127 kg
264	Head Stud Nut	4340 Steel, H/T Rc45	4	0.349 kg
265	Mount Washer	Steel, 9310/4140	4	0.044 kg
279	Mounting Bar	Aluminum, 7075-T6	2	0.523 kg
560	Low drive mount	Aluminum, 7075-T6	1	0.407 kg
664	Soft Mount	Rubber/Steel Bush	4	0.126 kg





Engine mount system
1:2

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NEXT ASSY.	USED ON
APPLICATION	

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COMMENTS:

DRAWING NO.

TITLE:

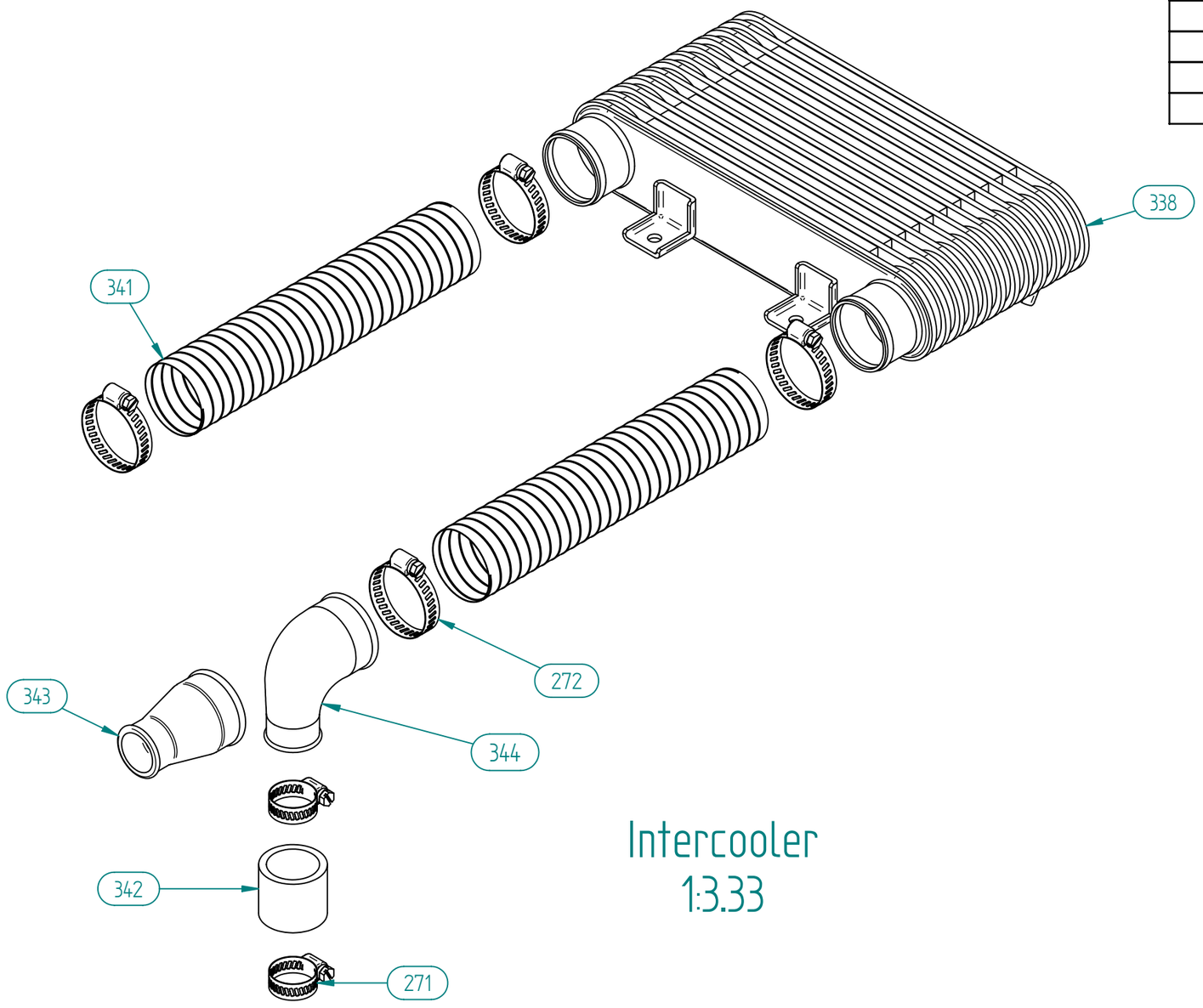
Generic Engine exploded views 2

SIZE	MATERIAL: SEE PARTS LIST	REV.
A3	CONDITION: AS PER PART DRAWINGS	27

SCALE: NOTED | WEIGHT: N/A | SHEET 12 OF 17

7 6 5 4 3 2 1

Manifest No.	Title	Material	Qty	Mass
271	Hose Clamp, 3/4" - 1 3/4"	Stainless Steel	2	0.038 kg
272	Hose Clamp, 1 1/4" - 2 1/4"	Stainless Steel	4	0.085 kg
338	Intercooler	Aluminum Alloy Fabrication	1	0.999 kg
341	Compressor transfer ducting	Wire Re-inforced Fabric	2	0.108 kg
342	Transfer tubing	rubber	1	0.035 kg
343	Transfer manifold 0 degrees	Aluminum, AA356	1	0.073 kg
344	Transfere manifold 90 degrees	Aluminum, AA356	1	0.099 kg



Intercooler
1:3.33

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Q.A.		

COMMENTS:

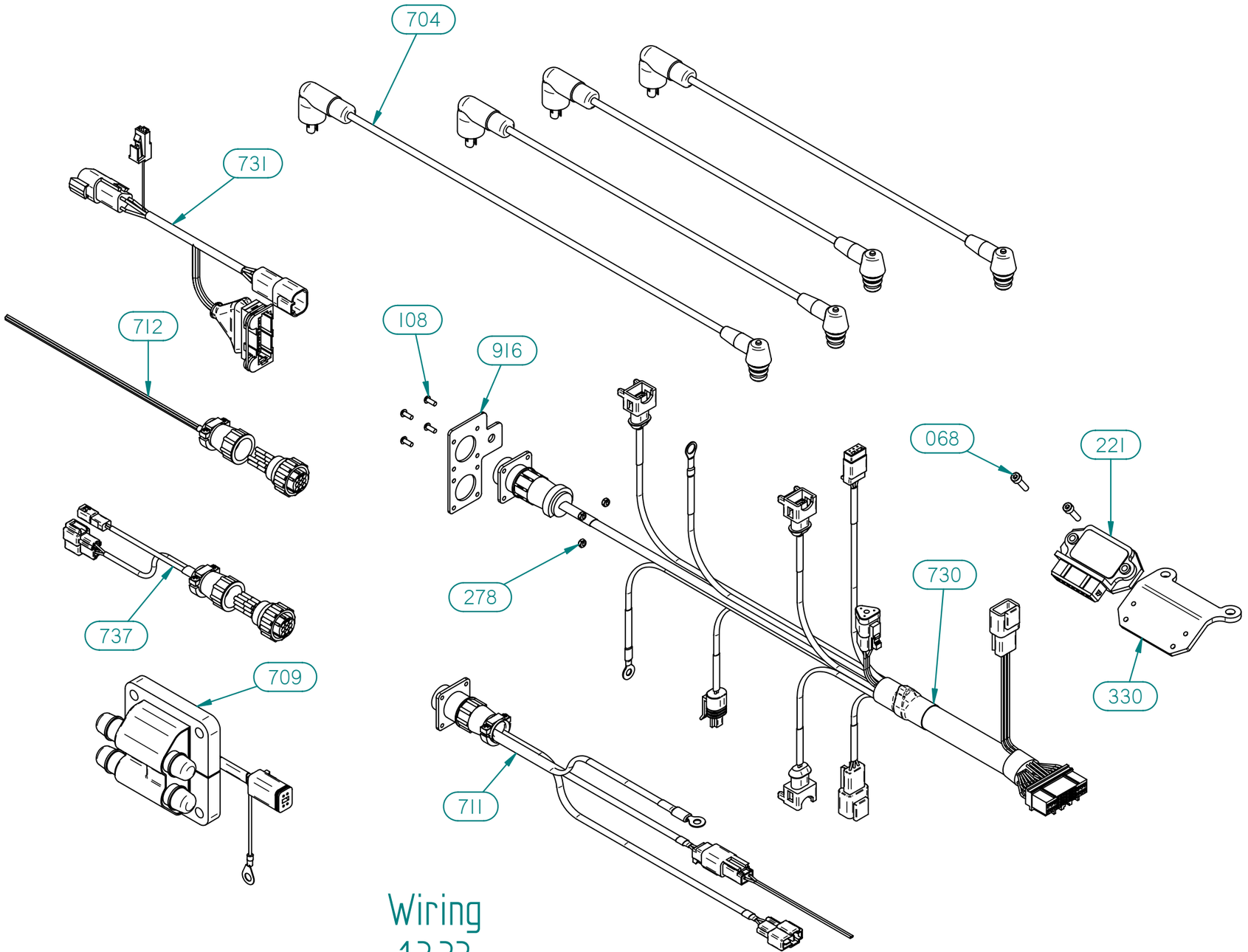
DRAWING NO.

TITLE:
Generic Engine exploded views 2

SIZE	MATERIAL: SEE PARTS LIST	REV.
A3	CONDITION: AS PER PART DRAWINGS	27

SCALE: NOTED	WEIGHT: N/A	SHEET 13 OF 17

7 6 5 4 3 2 1



Wiring
1:3.33

Manifest No.	Title	Quantity
221	Ignitor assembly	1
330	Single ignitor mount	1
704	Spark Plug Lead Set, Integral	1
712	Patch for 711	1
711	Auxilliary Loom	1
068	M4 x 16 SHCS	2
709	Single coil assembly	1
108	BHCS M3 x 8	4
916	Loom Pedestal	1
730	Primary Wiring Loom	1
737	Secondary loom- Main	1
731	Dual coil secondary loom	1
278	M3, Nyloc Nut	4

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Generic Engine exploded views 2

SIZE A3 | MATERIAL: SEE PARTS LIST | REV. 27

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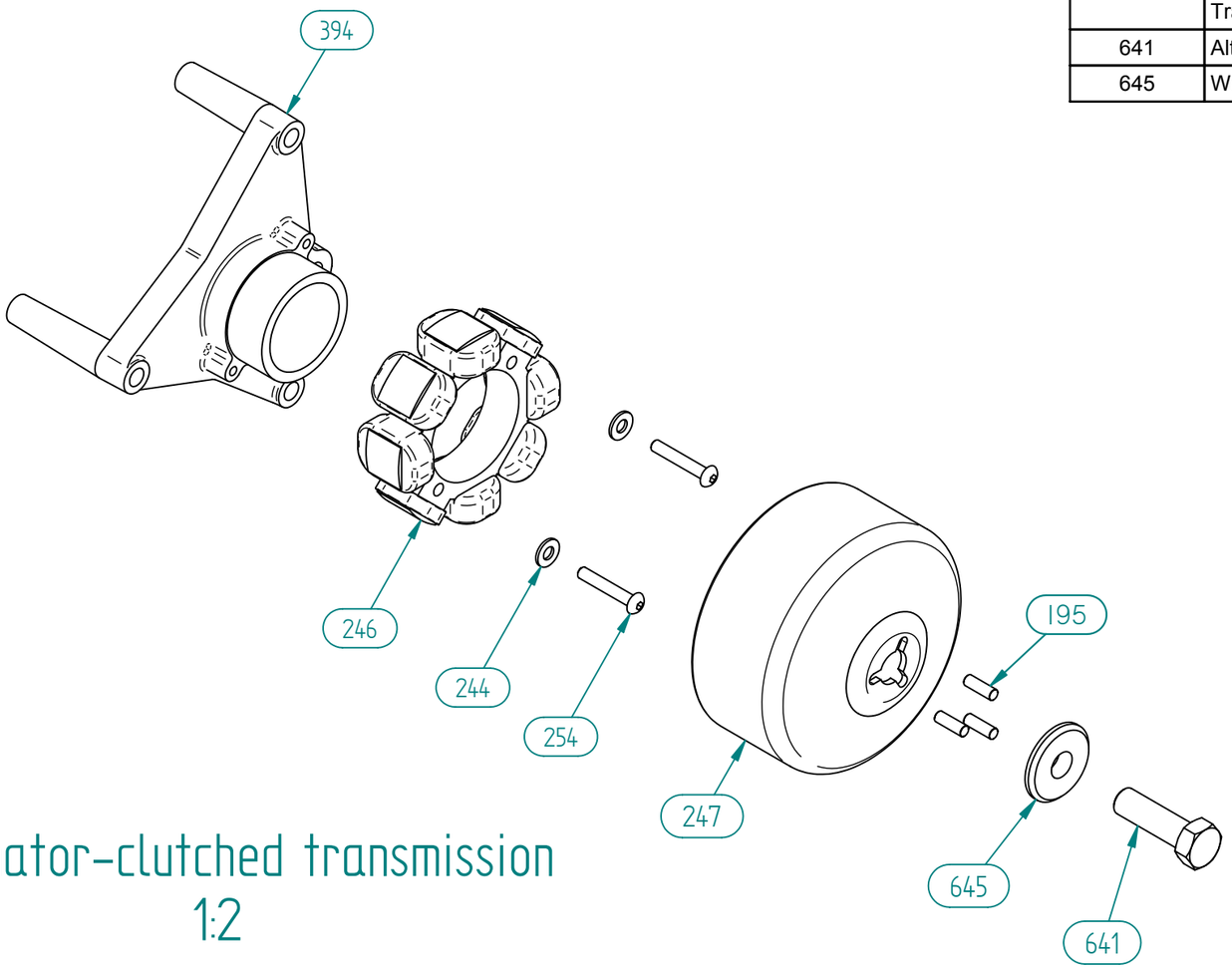
SCALE: NOTED | WEIGHT: N/A | SHEET 14 OF 17

7 6 5 4 3 2 1

Manifest No.	Title	Material	Qty	Mass
195	Retaining Pin	Steel	3	0.004 kg
244	Washer, M4 Narrow	Mild Steel	2	0.001 kg
246	Alternator Stator	Comp	1	0.373 kg
247	Alternator Rotor	Magnetic	1	0.715 kg
254	M4 x 25 BHSCS	steel	2	0.006 kg
394	Alternator Mount, Clutched Transmission - as Machined	Aluminum, 6061-T6	1	0.187 kg
641	Alternator Mounting Bolt	Steel, 4340	1	0.026 kg
645	Washer, Turbine	Steel, 4340	1	0.016 kg



Alternator-clutched transmission
1:2

aerotwin

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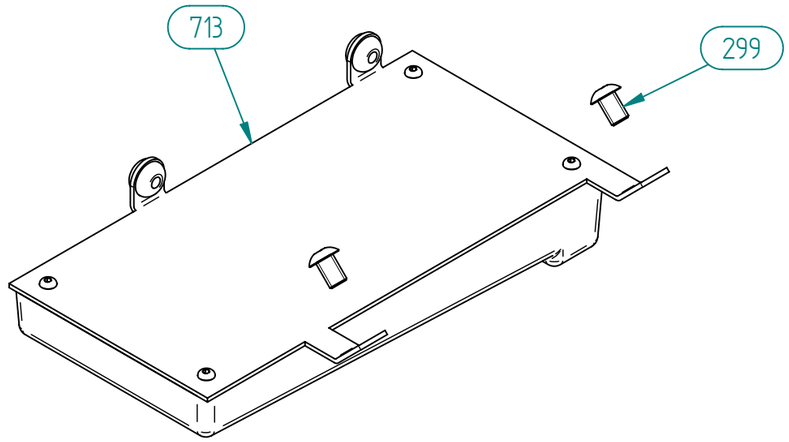
Generic Engine exploded views 2

SIZE A3 | MATERIAL: SEE PARTS LIST | REV. 27
CONDITION: AS PER PART DRAWINGS

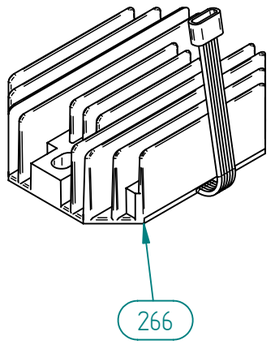
SCALE: NOTED | WEIGHT: N/A | SHEET 15 OF 17

7 6 5 4 3 2 1

Manifest No.	Title	Material	Qty	Mass
299	BHSCS 1/4 - 20 x 0.375" UNC	Steel Grade 12.9	2	0.007 kg
266	Rectifier	Aluminium	1	0.180 kg
713	ECU Assembly		1	0.476 kg



Engine ECU & Rectifier
1:2



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Generic Engine exploded views 2

SIZE A3 | MATERIAL: SEE PARTS LIST | REV. 27
CONDITION: AS PER PART DRAWINGS

SCALE: NOTED | WEIGHT: N/A | SHEET 16 OF 17

7 6 5 4 3 2 1

Drawing Revision Control:

Rev.:	Date:	Mod. by:	Ckd:	Description:
01	16 Dec 05	PJM	WLW	Engine drawings updated and Coils removed
02	3Jan06	PJM	WLW	Pg 1 #240 removed, Pg 9 now 2 x #023
03	7 Feb 06	PJM	WLW	Move Orings #027 from pg1 to pg 3, add new Orings #248 to pg
04	22Mar06	PJM	WLW	Sheets 4,8 &9 replaced scews with studs.Oil filter changed.
05	2 May 06	PJM	WLW	Cam wheels and primary wheel assembled to guides Sheet 10
06	1 June 06	PJM	WLW	Stud change on cam covers, cam belt cover corrected.
07	14June06	PJM	WLW	Sheet 8 optional throttle drive added
08	27July06	PJM	WLW	Up-dated: Cam covers, Turbo drain manifold,PCV, 1/4NPT crank case plugs, lead retainers.
09	15Sept06	DCB	WLW	Sheet 9 of 14 - Replaced 1 x Stud #216 and Nut #245 with Stud #249 and Damper Pivot #391. Sheet 10 of 14 - Replaced complete Cam Belt Tensioning System with Belt Tensioner Assembly #249. Sheet 8 of 14 Revision to Fuel Rail Bare #238. 2 x 1/8" NPT Bungs added # 198. Sheet 7 of 14 - Part #361 Turbo Drain replaced by Part #361, Union Turbo Drain. Sheet 7 of 14 Part # 234 Banjo Bolt M8 Replaced by Part No. 234, Pipe fitting-3 JIC to M8. Sheet 9 of 14 Part #241, Banjo Bolt M10 Replaced by Part #241, Pipe fitting -3 JIC to M10.
10	29Sept06	PJM	WLW	Sheet 4 of 14 changed exhaust studs,Sheet 7 of 14 added turbo support features, Sheet 9 of 14 added JIC fittings & new oil line. Alternator sheet removed. Sheet 1 plug added. Sheet 3 -12 JIC fittings added. Sheet 8 fuel rail support added. Sheet 14 Intercooler added.
11	3 Oct 06	PJM	WLW	Added Sheet 14 wiring, ECU air pressure line Sheet 8, Crankcases now Magnesium Sheet 1, corrected part numbers multiple places.
12	16 Oct 06	PJM	WLW	Sheet 2 Crankshaft changed to cast hollow.Added Alternator-clutched transmission. Moved ECU and rectifier to seperate sheet.
13	31 Oct 06	DCB	WLW	Sheet 17, part # 219, Engine ECU - revised and incorporated into part # 713, ECU Assembly. 2 X part #299, 1/4" - 20 UNC X 3/8" BHSCS added. Sheet 4, 2 X part # 399, Stud ECU - Inlet Manifold replaces 2 X part # 040, inlet stud to mount # 713, ECU Assembly.
14	28 Nov 06	PJM	WLW	Sht 2 was crank with integrated ring gear, sht9 was oil pump housing with weld on #10 JIC fitting
15	1 Dec 06	PJM	WLW	Sht 9 oil pump studs corrected
16	23 Jan 07	DCB	WLW	Sht 8 142, Throttle Cable Anchor revised.
17	26 FEB 07	DCB	DCB	SHEET 4 PART 660, AEROTWIN ENGINE PLATE ADDED TO ASSEMBLY AND BOM. DRAWING TITLE BLOCK AND GENERAL TOLERANCE SYSTEM REVISED.
18	30 MAY 07	DCB	WLW	REF. SHEET 3 - PART 248, O'RING 1.78mm X 85.0mm WAS 248, OUTLET SCAVANGE SEAL. REF. SHEET 15 - ASSEMBLY 704, SPARK PLUG LEAD SET ADDED.
19	20JULY07	DCB	WLW	034, CYLINDER HEAD AA356 WAS 034, CYLINDER HEAD BARE. REF: SHEET 4
20	24JULY07	DCB	WLW	SHEET 9, OPTIONAL OIL COOLER ASSEMBLY ADDED TO OIL PUMP ASSEMBLY. SHEET 15, PART 536 DELETED, PARTS 645 & 641 ADDED TO ASSEMBLY. SHEET 1, PART 010 WAS 810, PART 013 WAS 813. SHEET 7, PART No's 003, 022, 025 REPLACED WITH ASSY. 749. SHEET 14, PART 068, SHCS M4 X 16 ADDED 2X.
21	07AUG07	DCB	WLW	SHEET 1, PART 441 ADDED (OPTIONAL) ASSYEMBLY 708 INDICATED. SHEET 2, ASSEMBLY 891 INDICATED. SHEET 4, ASSEMBLY 706 INDICATED. SHEET 5, ASSEMBLIES 785, 786, 798, 748, 747, INDICATED. SHEET 7, ASSEMBLY 749 INDICATED. SHEET 8, PART 738 ADDED (OPTIONAL). SHEET 9, ASSEMBLIES 775, 774, 703, 795, 723, INDICATED. SHEET 10, ASSEMBLIES 727, 728 SHEET 12, PART 506 ADDED (OPTIONAL) PART 664 ADDED. SHEET 15, PART 195, ADDED.
22	12SEPT07	DCB	WLW	PART 127 ADDED TO BELT TENSIONER ASSY. REF: SHEET 10. PART 176, REPLACED BY PART 299 ON CAM BOX COVERS.
23	260CT07	DCB	WLW	OPTIONAL ASSEMBLY #773 ADDED TO STARTER ASSEMBLY REF: SHEET 11. NOTE APPENDED TO 034 CORRECTED TO 706, CYLINDER HEAD ASSEMBLY REF: SHEET 4.
24	29 NOV 07	DCB	WLW	2 X PART 209 DELETED AND REPLACED BY PART 205, STABILIZER ARM, REF. SHEET 12. PART 385, FUEL INJECTOR ADDED TO ASSY. FOR TURBO CHARGED ENGINE CONFIGURATION. REF. SHEET 8. WIRING LOOMS 711 & 712 ADDED TO WIRING ASSEMBLY, REF. SHEET 14.
25	04 DEC 07	DCB	WLW	REVISIONS TO 704, SPARK PLUG LEAD ASSEMBLY. REF. WIRING, SHEET 14 REVISIONS TO 459, SEAL ROTARY OIL. REF. CRANK CASE, SHEET 1.
26	06 DEC 07	DCB	WLW	PART# 395 (X3) REPLACED BY #087, STUD 00.25" X 76.5mm REF. OIL PUMP SHEET 9. #714, EXHAUST ASSEMBLY #222, TURBO BRACE WITH #525, 523, 230 ADDED TO EXHAUST SYSTEM ASSEMBLY.
27	19 DEC 07	DCB	WLW	CORRECTION REF: SHEET 12, PART No. 262 FOR MOUNT SPACER WAS NOT INDICATED ON EXPLODED DRAWING VIEW ILLUSTRATION.

aerotwin

NEXT ASSY. | USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED:

INTERPRET GEOMETRIC TOLERANCING TO ANSI Y 14.5 1994

DIMENSIONS ARE IN mm
GENERAL TOLERANCES:
1 DEC. PLACE = ±0.5
2 DEC. PLACES = ±0.25
3 DEC. PLACES = ±0.10
ANGULAR = ±0.3°

BREAK EDGES 0.3
CORNER RADII 0.3
MACHINE FINISH 125µin/3.2µm Ra

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	DCB	10 NOV 05
CHECKED	WLW	10 NOV 05
ENG. APPR.		
MFG. APPR.		
Q.A.		

COMMENTS:

DRAWING NO.

TITLE:

Generic Engine exploded views 2

SIZE A3 | MATERIAL: SEE PARTS LIST | REV. 27

CONDITION: AS PER PART DRAWINGS

SCALE: NOTED | WEIGHT: N/A | SHEET 17 OF 17

7 6 5 4 3 2 1