



# SYNERGY

## Nomenclature



**Updated: 23/04/2025**

**Version: 3.9**

Aquila Cars A/S reserves the right to make pricing and specification changes as and when necessary. Any changes will be notified at quotation. All prices are excluding VAT. Aquila Cars A/S cannot be held responsible for any errors in printing.

## Change Log

| Version | Date       | Description                                                                     |
|---------|------------|---------------------------------------------------------------------------------|
| 3.0     | 21/01/2017 | Starting version using new layout and format from the start of the 2017 season. |
| 3.1     | 29/01/2017 | Various minor updates.                                                          |
| 3.2     | 18/01/2018 | Updates for the start of the 2018 season.                                       |
| 3.3     | 08/11/2018 | Improvements to the layout of the Powertrain and Bodywork sections.             |
| 3.4     | 31/01/2019 | Updates for the start of the 2019 season.                                       |
| 3.5     | 23/07/2019 | Made general alterations for purpose of clarity to page 10, 20, 24, 37, and 38. |
| 3.6     | 15/06/2022 | Various minor updates.                                                          |
| 3.7     | 29/04/2024 | Update category of some components                                              |
| 3.8     | 15/04/2025 | 1-09 and 4-08 changed to B, 3-43 and 3-44 changed to C. 3-54 added as C.        |
| 3.9     | 23/04/2025 | Added various parts                                                             |

The technical regulations are based upon the following:

Parts for Aquila Synergy Cup are represented in the nomenclature and are split into three categories:

|                   |                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Category A</b> | No modifications are permitted. All parts within this category must remain in their original positions and fulfil the function/s for which they were originally intended. These parts must be genuine Aquila Cars A/S components. These components must be approved and marked by Aquila Cars A/S using the Aquila hologram badge.                                      |
| <b>Category B</b> | Parts are to be treated as 'Category A' unless modifications or prescriptions are indicated in the regulations or in Aquila Cars A/S nomenclature. These components must be approved and marked by Aquila Cars A/S using the Aquila hologram badge.                                                                                                                     |
| <b>Category C</b> | The parts stated within this category are considered to be unrestricted, on the express conditions that: <ol style="list-style-type: none"> <li>1. The function for which they were originally designed is not deviated.</li> <li>2. That it does not fulfil any additional function.</li> <li>3. It is located in the same place as the original component.</li> </ol> |

**Areas to be noted:**

- The set of items or subassemblies that make up a part or assembly are deemed to belong to the same category as the part or assembly in question.
- Scrutineering may consist of comparing that part to be checked against a similar genuine Aquila Cars A/S component. All parts not shown in the technical regulations are systematically classed in category 'A' unless specified otherwise above. In addition all genuine Aquila Cars A/S components will be checked for their badge of originality which must not be damaged or covered in any way.
- The pictures published in this document only aim at making the nomenclature easier to understand. These pictures cannot be used for any comparison with the original vehicle parts.

### **Nuts, screws and bolts**

Nuts, screws and bolts are classed within 'Category C' unless mentioned in the nomenclature, and can be removed if desired.

### **Washers**

All washers are classed within 'Category C' unless mentioned in the nomenclature, and can be removed if desired. It is allowed to add a washer only to improve mechanical assemblies. The use of a washer for setting purposes is forbidden, unless specifically mentioned in the nomenclature.

### **Electrical loom**

The electrical loom is classed within 'Category B' and must be a genuine Aquila Cars A/S item. The loom may be protected by non-retractable sheathes.

### **Protection**

It is permitted to add protection of any kind over mechanical elements of the car unless specifically stated in the nomenclature. These protections must have the sole function of protecting the items contained within their surface. For driver safety, it is allowed to add protection within the cockpit on the condition that these additional items are easily removable without the use of tools.

### **Supports**

It is allowed, unless mentioned in the nomenclature, to add various types of support to improve the fitting of tubes, hoses and electrical looms within the vehicle. Fitting of these supports must not require the modification of any components. The sole function of these supports must be maintaining the components for which they have been added and can only be made of tape, tie-wraps or other non-constructive material.

### **Bodywork**

It is allowed to modify the bodywork elements and their respective supports but only in order to aid in the fitting and correct assembly of these components. Adhesive tape may be put on the bodywork, but in all circumstances its only purpose must be to protect or fasten the component to which it is applied.

## 5.0 ENGINE

### 5.1 GENERAL

- Engine protests will cost 6000 Kr. Before any investigation takes place, the engine will be investigated by an independent party set out by Aquila Cars A/S. Please refer to Appendix 1 for further details about Engine protests.
- Engines will be mounted upright, and aligned East West in the chassis.
- The addition of any material be it metal, plastic or composite etc. by any means be it welding, bonding, encapsulation or encasement to any component is prohibited. The only exception to this, are the approved components from Aquila Cars A/S which can be found in the 'Engine and Transmission Assembly' section of the Aquila Synergy Nomenclature. Specific repair of the mounting points of the cylinder block to the transmission or chassis are allowed, whilst other casting repairs may be allowed with prior written approval of the Technical Commissioner responsible for the Formula.
- Balancing of reciprocating and rotating parts is permitted only by removal of metal from approved locations so set out by the manufacturer.
- It is prohibited to change the water pump, fan and generator drive pulleys and their retention bolts, washers and belts. No under drive pulleys are allowed.
- The generator must remain unchanged. No under drive pulleys allowed.
- The use of non-standard replacement fasteners, nuts, bolts, screws, studs and washers which are not connected with, or which do not support, any moving parts of the engine or its compulsorily retained accessories is permitted. Freedom granted to any fastener does not allow for freedom to move items relative to each other.
- The use of thread locking compounds is permitted.
- Gaskets are free except for the cylinder head, intake and exhaust system gaskets which must be standard Toyota components for the engine, and inlet manifold to cylinder head gasket which must be of production thickness.
- Any process of cleaning may be used on any component providing the surface finish must remain standard, is not affected.
- The exterior surfaces only (of the complete engine assembly) of ferrous parts and the exterior surface of the Plastic Rocker Cover may be protected by paint or similar means. No internal component or surface may be coated by any protective finish. Other Toyota produced aluminum components may be protected only on their external surfaces by a transparent clear varnish, or similar.

- Part numbers quoted were correct at the time the regulations were drafted. However, as with all companies, the Toyota Motor Company reserve the right to make changes to components for reliability or other reasons. Consequently the part numbers quoted may be superseded by later released parts. Full Toyota part numbers do not necessarily appear on all parts.
- It is permitted to use gaskets from Citroen or Peugeot, as long as the stock Toyota dimensions are retained. These must not be machined in any way.
- It is prohibited to alter the engine mounts in any way to lower or raise the engine, or shift it to either side in the chassis.

## **5.2 PERMITTED ENGINE**

- The only permitted engine is the Toyota 1KR-FE from the first gen Toyota Aygo.

## **5.3 INDUCTION**

- The air cleaners cannot be changed to other types than those offered from Aquila Cars A/S.
- The inlet manifold and throttle body system must be the Aquila Synergy system.
- It is prohibited to alter the induction trumpet length and dimensions by any means. Only stock thickness gaskets can be used, and only the stock number of gaskets can be used.
- If any updated induction systems become available from Aquila Cars A/S, these must be retrofitted to older vehicles.

## **5.4 EXHAUST SYSTEM**

- It is prohibited to change the exhaust system and manifold.
- A mandatory silencer from Aquila Cars A/S must be fitted.
- If any updated exhaust systems become available from Aquila Cars A/S, these must be retrofitted to older vehicles.

## **5.5 CYLINDER BLOCK**

- It is permitted, as means of repair, to replace damaged cylinder bores with cast iron cylinder liners, all too standard dimensions.
- It is permitted to machine cylinder liners to maintain deck height.
- The cylinder bore diameter can be a maximum of 71,013mm.

### **5.6 CYLINDER HEAD (INCLUDING VALVES AND VALVE GEAR)**

- Non-standard rocker covers are prohibited.
- Standard valve spring retainers must be used, only stock valve springs are permitted. Shims are permitted.
- Valve lifters must be stock Toyota parts. No machining or lightening is allowed.
- Valves must remain standard, no re-profiling or polishing is permitted. The original 30 degree inlet seat angle, and 45 degree exhaust seat must be maintained. Maximum valve diameter, inlet 27.5mm; exhaust 23.5mm.
- Overall length inlet  $88.50 \pm 0.5\text{mm}$ . Overall length exhaust  $89.10 \pm 0.5\text{mm}$ .
- Valve stem diameter must be 5mm.
- Valve stem seals must be fitted.
- Maximum port diameter at manifold face: inlet 40mm\*28mm.
- Inlet and exhaust port diameter cannot be changed in any way.
- It is permitted, as means of repair, to replace damaged valve guides and valve seats by replacement valve guides and valve seat inserts, to all standard dimensions. The valve seats cannot protrude into the combustion chamber if they are to be changed - they must be mounted flush to the combustion chamber. No machining allowed.
- Valve clearance must be minimum 0.145mm inlet and 0.275mm exhaust.
- The valve seat width must be minimum 1.2mm intake and 1.11 exhaust, and maximum diameter is 27.3mm inlet and 23.2mm exhaust.

### **5.7 COMPRESSION RATIO**

- The maximum compression ratio will be controlled as follows: Maximum compression ratio is 10.5:1.
- It is prohibited to make any changes to the compression chamber, to do any machining or polishing, to move the valves relative to each other, or to do any de-schrouding of the valves.
- The cylinder head minimum thickness is 113.0mm +/-0.1mm.
- Standard Toyota cylinder head gasket Part No. 1111540060, or Victor Reinz Part No. 61-53425-00, metal multilayer must be used. It is prohibited to remove metal layers from the gasket. minimum compressed thickness is (0.5mm),
- ii) Pistons must not protrude above the cylinder block face at TDC. The cylinder block surface may be machined, as long as the compression is not raised past 10.5:1.

### **5.8 CAMSHAFT**

- The only permitted camshaft is the Toyota production camshaft for the 1KR-FE engine.
- The camshaft must remain entirely unmodified. It must be fully manufactured and ground to the Toyota Motor Company profile. It is prohibited to grind from blanks, regrind or re-profile. Shot peening, shot blasting or polishing are prohibited.
- The camshaft profile is defined by determination of lift (L-I) against a flat footed follower at various angles (Ø). Maximum lift at all points on the camshaft must not be exceeded. The specified lift is cam lift, not valve lift, which is cam lift minus valve clearance. Standard Toyota tolerances apply to the following camshaft lift.
- Dimension
- Symmetrical Cam lobe height: Inlet 41.64, Exhaust 41.07
- Cam base circle: Inlet 33mm, Exhaust 33mm
- Cam lift: Inlet 8.5mm, Exhaust 8mm

### **5.9 PISTONS**

- Pistons must be standard Toyota production pistons for the 998cc engine, unmodified in any way except for balancing and as detailed.
- All three piston rings must be fitted, piston rings must be standard production or similar replacements, i.e. the compression rings must be one piece, with conventional plain gaps, the oil control rings must be either single piece twin land type or apex three piece (two rails and an expander).
- The minimum weight of the piston, piston rings, gudgeon pin, connecting rod, rod bolts and bearings shells are 582g.

### **5.10 CONNECTING RODS**

- Connecting rods must be standard Toyota parts Machining is permitted to remove metal from the balancing bosses on the big-end cap and at the little end, with the sole purpose of balance. Polishing is prohibited.
- It is prohibited to change the centres of the connecting rod by machining, to change the length of the connecting rod.

### **5.11 CRANKSHAFT**

- A standard crankshaft must be used. Spot Machining to achieve balance is permitted.
- Crankshaft pulley must remain stock. No under drive pulley allowed.
- It is not permitted to alter the number of bearings or fit bearings of less than standard production width.
- Standard oversize and undersize bearings are permitted.
- The minimum weight of the crankshaft is 8.620kg.
- It is prohibited to grind the crankshaft on different centers to raise the stroke. The maximum permitted stroke is 84mm.

### **5.12 FLYWHEEL AND CLUTCH**

- The flywheel and clutch assembly must be standard components. To achieve minimum weight and balance, material may be removed from the originally machined surfaces, rim/flange Etc... For rectification, the clutch mating face may be resurfaced. Cast surfaces must remain in original condition. It is permitted to use a similar pattern replacement clutch (i.e. conventional single diaphragm spring) friction plate with shock absorber springs. Organic friction material only is permitted.
- Racing clutches are prohibited.
- Flywheel bolts are free.
- It is permitted to secure the starter ring to the flywheel.
- Flywheel and clutch assembly minimum permitted weight: 9.475Kg. (Including all flywheel and crankshaft mounting bolts).
- It is prohibited to move the location of the flywheel in any way on the crankshaft.

### **5.13 LUBRICATION SYSTEMS**

- It is prohibited to make any change to the oil system. With the exception of the mandatory relocating of the oil filter as set out by Aquila Cars A/S.

### **5.14 COOLING SYSTEM**

- It is prohibited to make changes to the cooling system.
- The cooling liquid must contain a minimum of 30% ethylenglycol, and a maximum of 50%.

#### **5.15 FUEL PUMP**

- Only the Toyota Aygo fuel pump for the engine is permitted.

#### **5.16 IGNITION SYSTEM**

- Only the stock Toyota ignition systems are allowed.
- Spark plugs are free of choice as long as the stock dimensions are retained.

#### **5.17 ENGINE MANAGEMENT**

- Only the engine management system from Aquila Cars A/S is allowed.
- It is prohibited to alter the Electronic Control Unit (ECU) maps, move the placement of the engine ECU trigger system or the crankshaft trigger wheel.
- It is prohibited to use engine sensors, and fuel injectors, other than the standard Toyota components for this engine.

## Vehicle Setup

### Weight

- It is at the discretion of the championship organizers to weigh competition vehicles at any time during a race-weekend, the weight of the car without the driver, must not be less than 420 Kg. The weight of the car inclusive of the driver, must not weigh less than 510 Kg.
- If a car needs to use ballast plates to full fill the rules above, it can only be with original Aquila Cars A/S ballast weight adjusting plates. No other weights will be accepted.

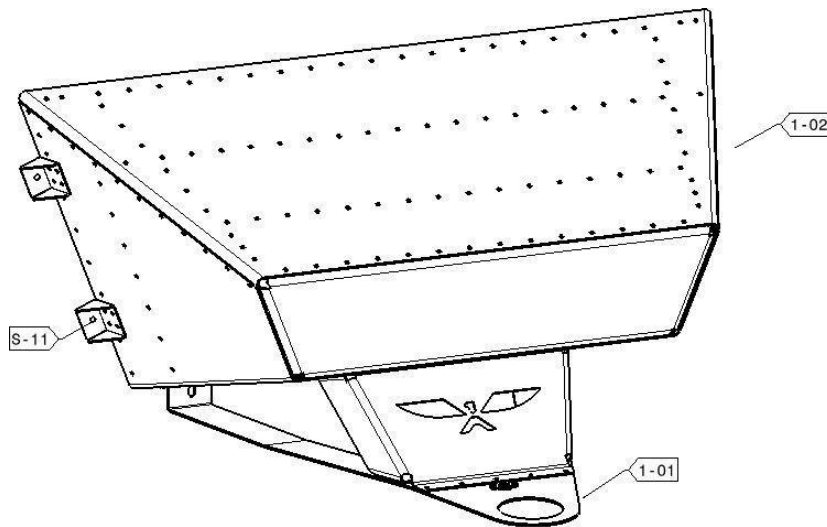
### Setup

- The camber angle on both front and rear corners of the car, can be adjusted. There must be 0 (zero) to 12 (twelve) original 1 mm Aquila adjusting shims, mounted in total. No more – no less.
- The Caster angle on both front and rear corners of the car, is NOT allowed to adjust.
- The Toe-in angle on both front and rear corners of the car, can be adjusted without any restrictions.
- The Ride Height of both front and rear of the car, can be adjusted without any restrictions.
- Tyre pressures are not restricted.



**SYNERGY**

## Crashbox

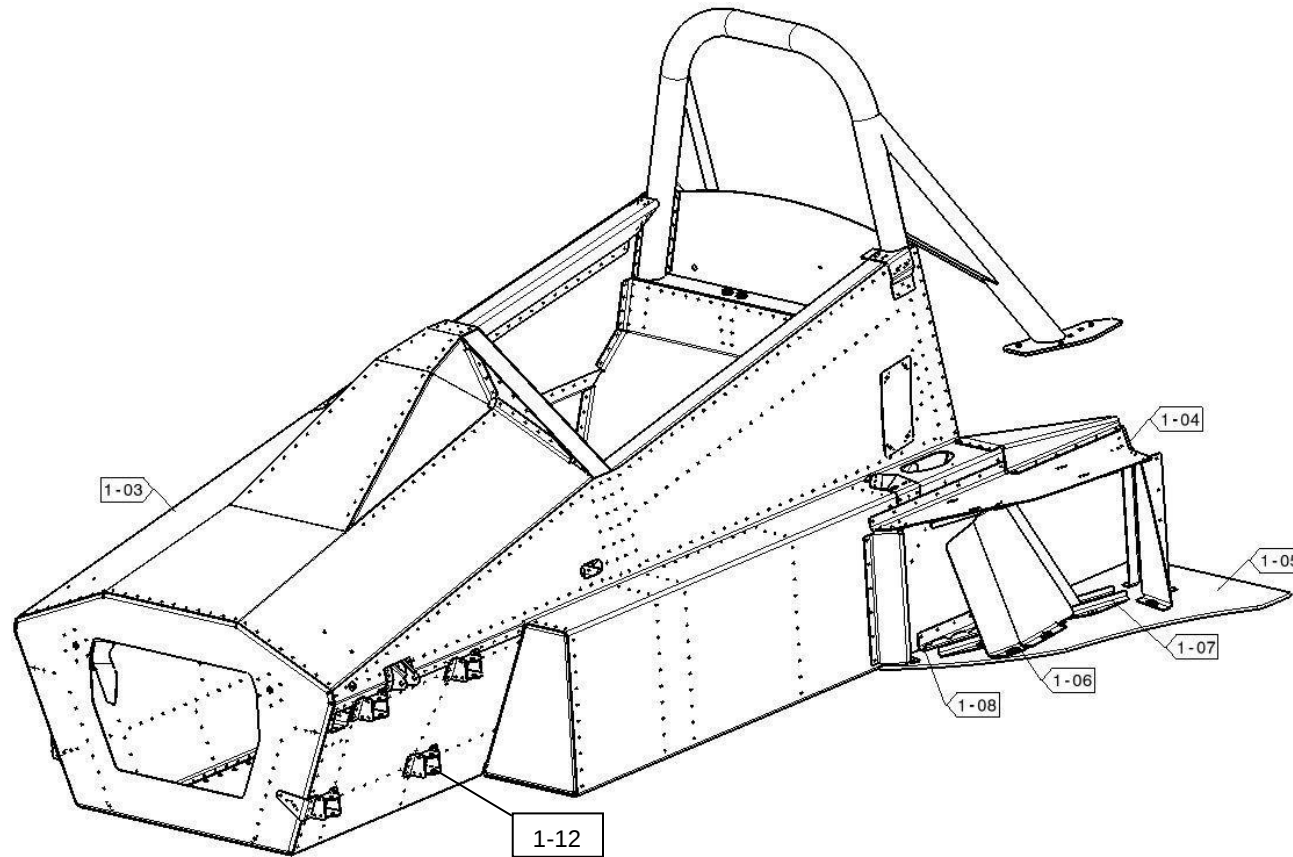


|      | A | B | C |
|------|---|---|---|
| 1-01 | X |   |   |
| 1-02 | X |   |   |
| S-11 |   |   | X |

## Crashbox – Part Numbers

| Item Number | Part Number    | Description                            |
|-------------|----------------|----------------------------------------|
| 1-01        | SC-01-035-0314 | Front Towing Eye                       |
| 1-02        | SC-01-035-0409 | Crashbox                               |
| S-11        |                | Bolt Set: Mounting Crashbox to Chassis |

## Chassis – Monocoque



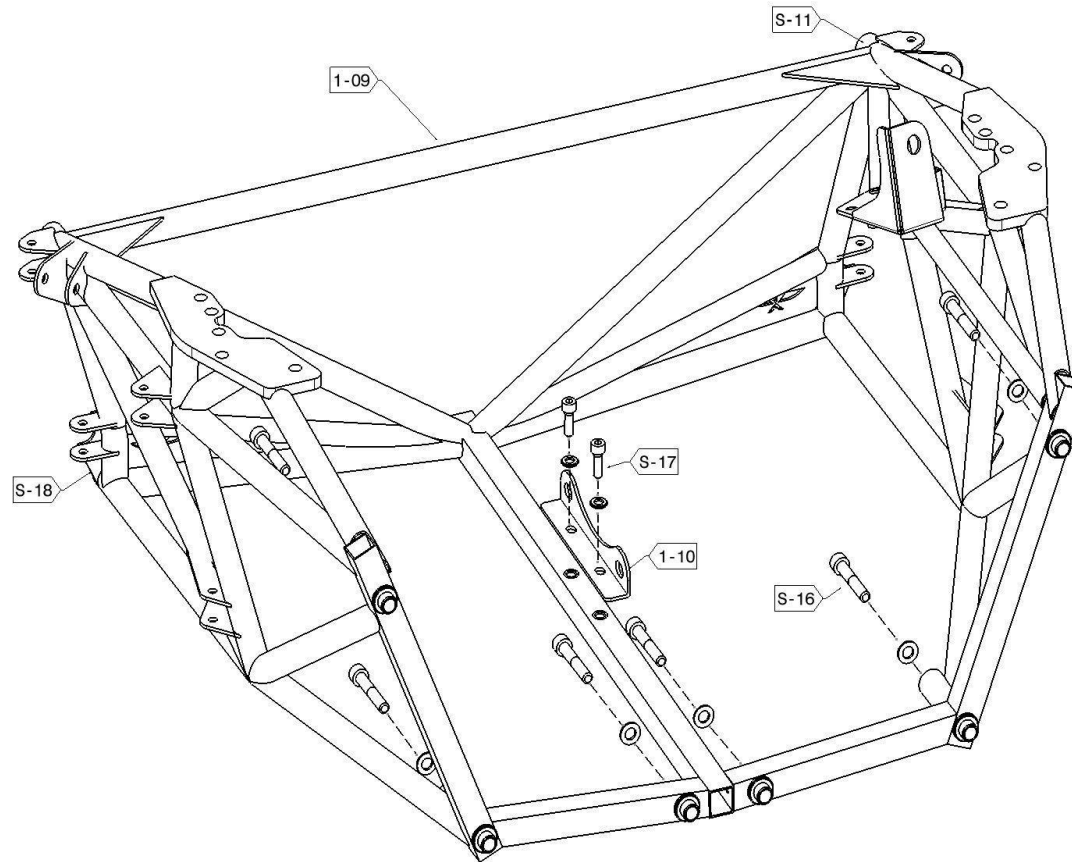
|      | A | B | C |
|------|---|---|---|
| 1-03 | X |   |   |
| 1-04 | X |   |   |
| 1-05 | X |   |   |
| 1-06 | X |   |   |
| 1-07 | X |   |   |
| 1-08 | X |   |   |
| 1-12 | X |   |   |
| S-12 |   |   | X |
| S-13 |   |   | X |
| S-14 |   |   | X |
| S-15 |   |   | X |
| S-19 |   |   | X |

## Chassis – Monocoque – Part Numbers

| Drawing Number | Part Number    | Description                                   |
|----------------|----------------|-----------------------------------------------|
| 1-03           | SC-01-001-0410 | Monocoque Chassis                             |
| 1-04           | SC-01-058-0015 | Radiator Housing                              |
| 1-05           | SC-01-058-0374 | Radiator Duct Floor                           |
| 1-06           | SC-01-058-0382 | Central Duct Left                             |
|                | SC-01-058-0383 | Central Duct Right                            |
| 1-07           | SC-01-058-0384 | Radiator Right Angle Locator                  |
| 1-08           | SC-01-058-0388 | Radiator Floor Mounting Strip Left            |
|                | SC-01-058-0389 | Radiator Floor Mounting Strip Right           |
| 1-12           |                | Front Wishbone Mount                          |
| S-12           |                | Bolt Set: Rear Roll Hoop to Subframe          |
| S-13           |                | Bolt Set: Radiator Floor                      |
| S-14           |                | Bolt Set: Radiator Centre Duct                |
| S-15           |                | Bolt Set: Right Angle Locator through Floor   |
| S-19           |                | Bolt Set: Right Angle Locator through Housing |

|      |                                                                                                                                                          |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1-03 | Minor repairs may only be completed by Aquila Racing Cars A/S, The repair must be accompanied with a certificate of authenticity for the monocoque life. |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------|

## Chassis – Rear Subframe



|       | A | B | C |
|-------|---|---|---|
| 1-09  |   | X |   |
| 1-10  | X |   |   |
| 1-11  | X |   |   |
| S-16  |   |   | X |
| S-17  |   |   | X |
| S-18  |   |   | X |
| S-110 |   |   | X |



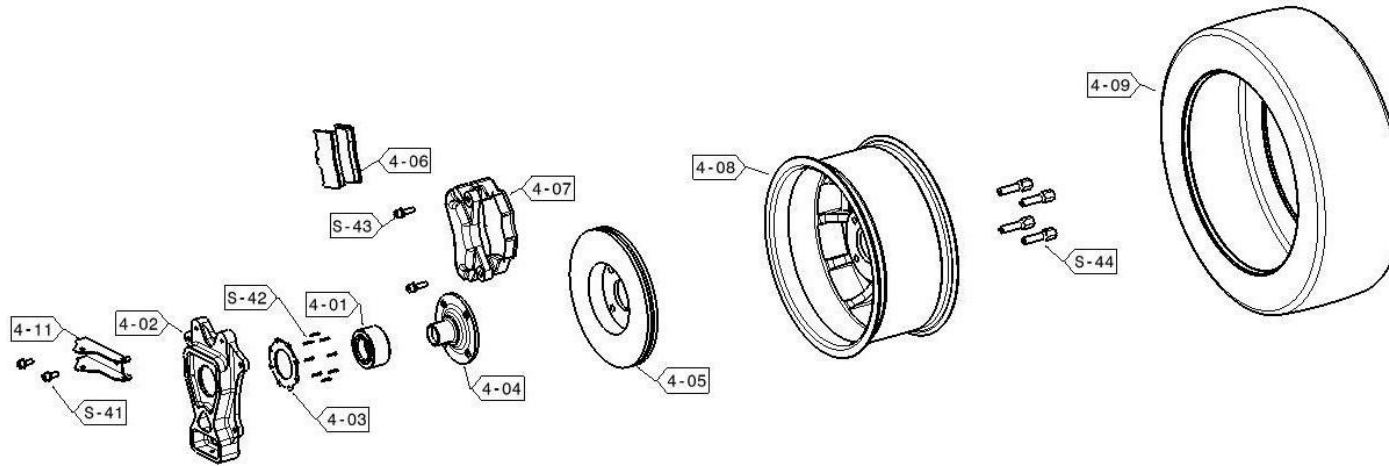
**SYNERGY**

## Chassis – Rear Subframe – Part Numbers

| Item Number | Part Number    | Description                                |
|-------------|----------------|--------------------------------------------|
| 1-09        | SC-01-009-0016 | Rear Subframe                              |
| 1-10        | SC-01-009-0254 | Gearbox Adaptor Plate                      |
| 1-11        | SC01-009-0017  | Rear Bodywork Support                      |
| S-16        |                | Bolt Set: Subframe to Monocoque            |
| S-17        |                | Bolt Set: Lower Engine Bracket to Subframe |
| S-18        |                | Bolt Set: Diffuser Mount                   |
| S-110       |                | Bolt Set: Gear Cable Mount to Subframe     |

|      |                                            |
|------|--------------------------------------------|
| 1-09 | Rear Subframe may be painted in any color. |
|------|--------------------------------------------|

## Suspension – Front Corner



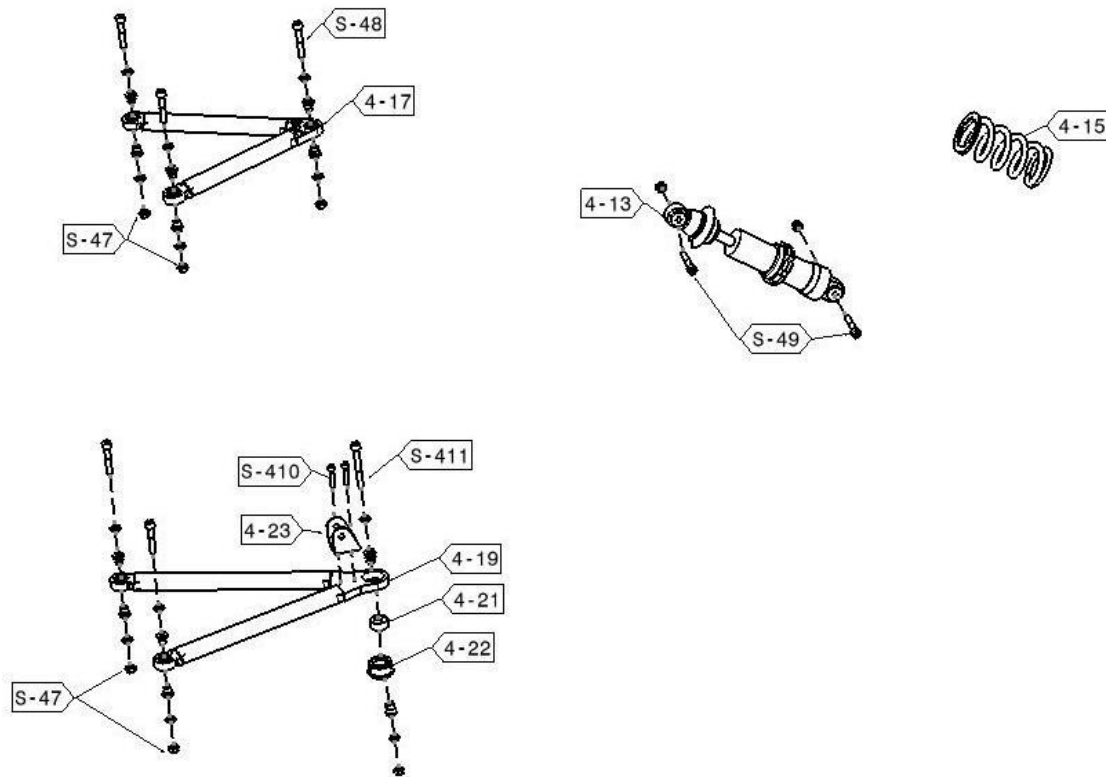
|      | A | B | C |
|------|---|---|---|
| 4-01 |   | X |   |
| 4-02 | X |   |   |
| 4-03 | X |   |   |
| 4-04 |   | X |   |
| 4-05 |   | X |   |
| 4-06 |   | X |   |
| 4-07 |   | X |   |
| 4-08 |   | X |   |
| 4-09 | X |   |   |
| 4-09 | X |   |   |
| 4-11 | X |   |   |
| 4-23 |   | X |   |
| 4-27 | X |   |   |
| S-41 |   |   | X |
| S-42 |   |   | X |
| S-43 |   |   | X |
| S-44 |   | X |   |
| S-45 |   |   | X |
| S-46 |   |   | X |

## Suspension – Front Corner – Part Numbers

| Item Number | Drawing Number | Description                     |
|-------------|----------------|---------------------------------|
| 4-01        | SC-04-010-0309 | OEM Wheel Bearing               |
| 4-02        | SC-04-010-0099 | Upright                         |
| 4-03        | SC-04-010-0100 | Wheel Bearing Retainer Plate    |
| 4-04        | SC-04-010-0310 | OEM Hub                         |
| 4-05        | SC-04-010-0288 | OEM Brake Disc                  |
| 4-06        | SC-04-010-0290 | Wilwood Brake Pads              |
| 4-07        | SC-04-010-0289 | Wilwood Dynalite Brake Caliper  |
| 4-08        | SC-04-010-0287 | BRAID Winrace-A Wheel R13 x 6   |
|             | SC-04-010-0109 | Aquila Racing Wheel R13 x 6     |
| 4-09        | SC-04-010-0285 | Front Tyre Dry 160/530-13       |
| 4-11        | SC-04-010-0065 | Front Steering Arm              |
| 4-23        | SC-04-010-0025 | 90 Degree Brake Fitting Adapter |
| 4-27        | SC-04-010-0101 | Aquila Camber Shims             |
| S-41        |                | Bolt Set: Camber Block          |
| S-42        |                | Bolt Set: Retainer Plate        |
| S-43        |                | Bolt Set: Brake Caliper         |
| S-44        |                | Bolt Set: OEM Wheel Bolts       |
| S-45        |                | Bolt Set: Steering Arm          |
| S-46        |                | Bolt Set: Brake Disc Screw      |

|      |                                                                |
|------|----------------------------------------------------------------|
| 4-04 | The hub must be an original OEM hub.                           |
| 4-06 | Brake pads must conform to championship organiser regulations. |
| 4-07 | Caliper must be kept in original condition.                    |
| 4-09 | Wheel may be painted in any color.                             |
| 4-09 | Tyres must conform to championship organiser regulations.      |

## Suspension – Front Wishbone



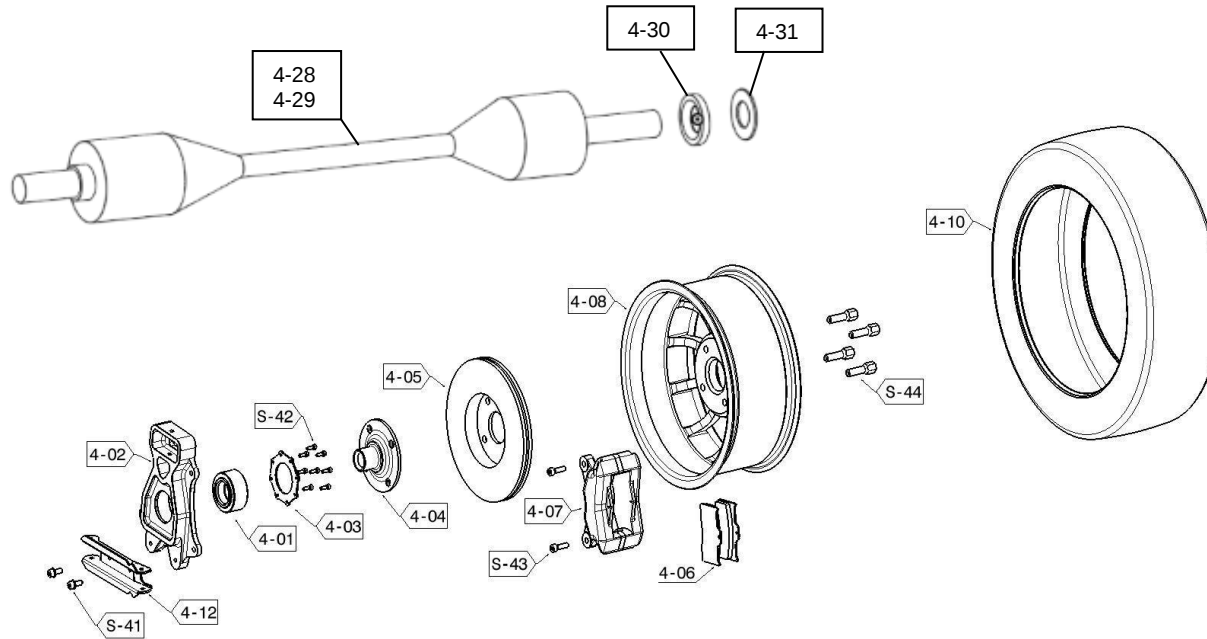
|       | A | B | C |
|-------|---|---|---|
| 4-13  | X |   |   |
| 4-15  | X |   |   |
| 4-17  | X |   |   |
| 4-19  | X |   |   |
| 4-21  | X |   |   |
| 4-22  | X |   |   |
| 4-23  | X |   |   |
| S-47  |   |   | X |
| S-48  |   |   | X |
| S-49  |   |   | X |
| S-410 |   |   | X |
| S-411 |   |   | X |
| TH-1  | X |   |   |
| TH-2  | X |   |   |
| TH-3  | X |   |   |

## Suspension – Front Wishbones – Part Numbers

| Item Number | Part Number     | Description                                   |
|-------------|-----------------|-----------------------------------------------|
| 4-13        | SC-04-029-0280  | INTRAX Front Damper                           |
| 4-15        | SC-04-010-0293  | INTRAX Front Spring – 130/60-51mm             |
| 4-17        | SC-04-010-0294  | Front Upper Wishbone                          |
| 4-19        | SC-029-010-0282 | Front Lower Wishbone                          |
| 4-21        | SC-04-030       | Outboard Lower Wishbone Bearing               |
| 4-22        | SC-04-029       | Outboard Lower Wishbone Bearing Housing       |
| 4-23        | SC-04-033-0062  | Front Lower Damper Mount                      |
| S-47        |                 | Bolt Set: Front Inboard Wishbone Upper/ Lower |
| S-48        |                 | Bolt Set: Outboard Upper Wishbone             |
| S-49        |                 | Bolt Set: Damper                              |
| S-410       |                 | Bolt Set: Lower Damper Bracket                |
| S-411       |                 | Bolt Set: Outboard Lower Wishbone             |
| TH - 1      | SC-04-041-0261  | Front Wishbone Inboard                        |
| TH - 2      | SC-04-041-0260  | Front Wishbone Outboard Upper/ Rear Track Rod |
| TH - 5      | SC-04-041-0264  | Front Wishbone Outboard Lower                 |

|      |                                                                   |
|------|-------------------------------------------------------------------|
| 4-15 | Damper springs must conform to championship organiser regulations |
|------|-------------------------------------------------------------------|

## Suspension – Rear Corner



|      | A | B | C |
|------|---|---|---|
| 4-01 |   | X |   |
| 4-12 | X |   |   |
| 4-02 | X |   |   |
| 4-03 | X |   |   |
| 4-04 |   | X |   |
| 4-05 |   | X |   |
| 4-06 |   | X |   |
| 4-07 |   | X |   |
| 4-08 |   | X |   |
| 4-10 | X |   |   |
| 4-10 | X |   |   |
| 4-23 |   | X |   |
| 4-27 | X |   |   |
| 4-28 | X |   |   |
| 4-29 | X |   |   |
| 4-30 | X |   |   |
| 4-31 | X |   |   |
| S-41 |   |   | X |
| S-42 |   |   | X |
| S-43 |   |   | X |
| S-44 |   | X |   |

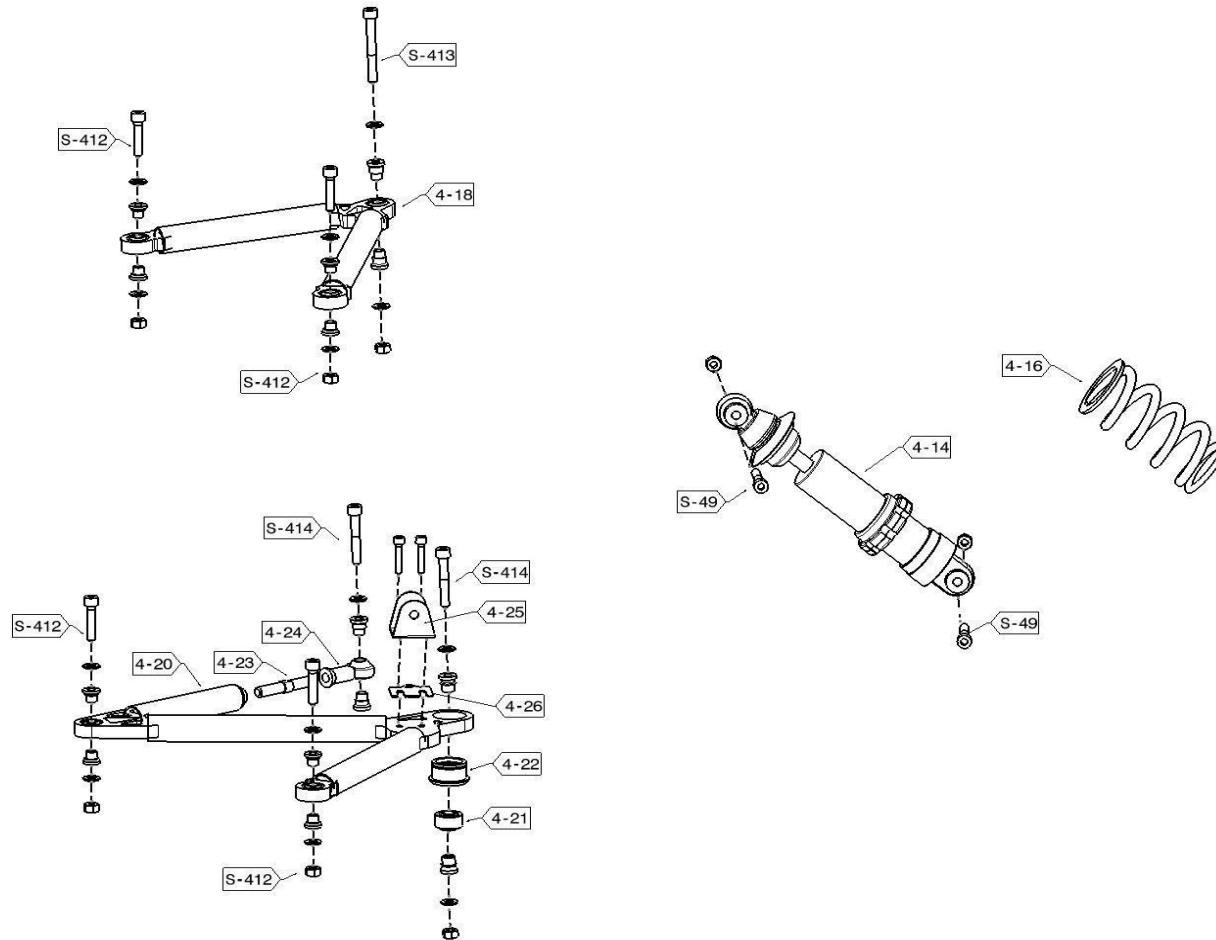


## Suspension – Rear Corner – Part Numbers

| Item Number | Part Number    | Description                     |
|-------------|----------------|---------------------------------|
| 4-01        | SC-04-010-0309 | OEM Wheel Bearing               |
| 4-12        | SC-04-011-0064 | Rear Steering Arm               |
| 4-02        | SC-04-010-0099 | Upright                         |
| 4-03        | SC-04-010-0100 | Wheel Bearing Retainer Plate    |
| 4-04        | SC-04-010-0310 | OEM Hub                         |
| 4-05        | SC-04-010-0288 | OEM Brake Disc                  |
| 4-06        | SC-04-010-0290 | Wilwood Brake Pads              |
| 4-07        | SC-04-010-0289 | Wilwood Dynalite Brake Caliper  |
| 4-08        | SC-04-010-0287 | BRAID Winrace-A Wheel R13 x 6   |
|             | SC-04-010-0109 | Aquila Racing Wheel R13 x 6     |
| 4-10        | SC-04-011-0286 | Rear Tyre Dry 180/560-13        |
| 4-23        | SC-04-010-0025 | 90 Degree Brake Fitting Adaptor |
| 4-27        | SC-04-010-0101 | Aquila Camber Shims             |
| 4-28        |                | Left/Short Driveshaft           |
| 4-29        |                | Right/Long Driveshaft           |
| 4-30        | SC-03-006-0525 | Driveshaft Main Distance Washer |
| 4-31        | SC-03-006-0526 | Driveshaft Shim 2mm             |
| S-41        |                | Bolt Set: Camber Block          |
| S-42        |                | Bolt Set: Retainer Plate        |
| S-43        |                | Bolt Set: Brake Caliper         |
| S-44        |                | Bolt Set: OEM Wheel Bolts       |
| S-46        |                | Bolt Set: Brake Disc Screw      |

|      |                                                                |
|------|----------------------------------------------------------------|
| 4-04 | The hub must be an original OEM hub.                           |
| 4-06 | Brake pads must conform to championship organiser regulations. |
| 4-07 | Caliper must be kept in original condition.                    |
| 4-08 | Wheel may be painted in any color.                             |
| 4-10 | Tyres must conform to championship organiser regulations.      |

## Suspension – Rear Wishbones



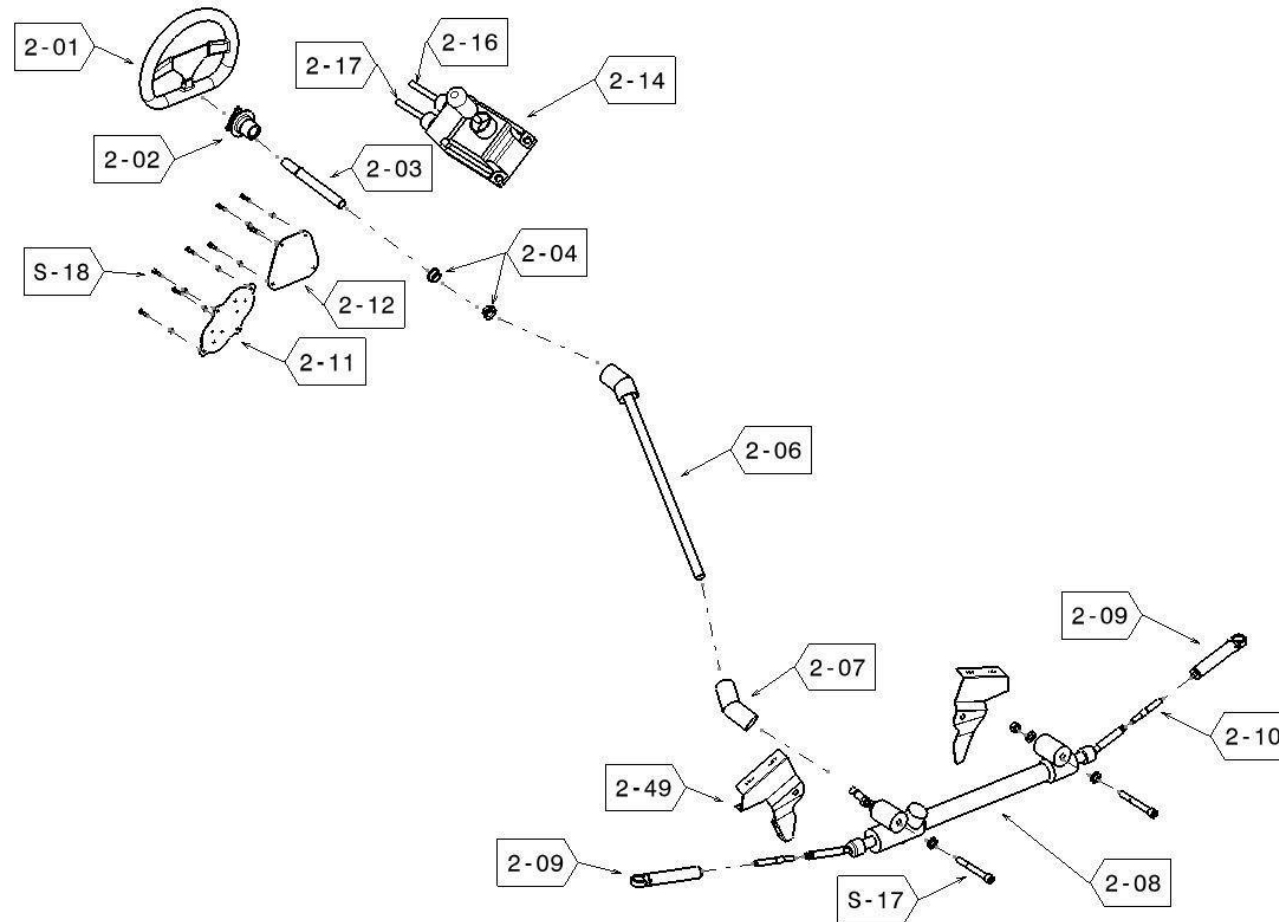
|        | A | B | C |
|--------|---|---|---|
| 4-14   | X |   |   |
| 4-16   | X |   |   |
| 4-18   | X |   |   |
| 4-20   | X |   |   |
| 4-21   | X |   |   |
| 4-22   | X |   |   |
| 4-23   | X |   |   |
| 4-24   |   |   | X |
| 4-25   | X |   |   |
| 4-26   | X |   |   |
| S-412  |   |   | X |
| S-413  |   |   | X |
| S-414  |   |   | X |
| S-415  |   |   | X |
| S-416  |   |   | X |
| S-417  |   |   | X |
| TH – 4 | X |   |   |
| TH – 5 | X |   |   |
| TH – 6 | X |   |   |

## Suspension – Rear Wishbones – Part Numbers

| Item Number | Drawing Number | Description                                   |
|-------------|----------------|-----------------------------------------------|
| 4-14        | SC-04-011-0279 | INTRAX Rear Damper                            |
| 4-16        | SC-04-011-0293 | INTRAX Rear Spring – 130/70-51mm              |
| 4-18        | SC-04-032-0307 | Rear Upper Wishbone                           |
| 4-20        | SC-04-031-0308 | Rear Lower Wishbone                           |
| 4-21        | SC-04-029-0280 | Outboard Lower Wishbone Bearing               |
| 4-22        | SC-04-029-0279 | Outboard Lower Wishbone Bearing Housing       |
| 4-23        | SC-04-010-0025 | Track Rod Rear                                |
| 4-24        | SC-04-031-0330 | Female M10 Rod End Link                       |
| 4-25        | SC-04-034-0063 | Rear Lower Damper Mount                       |
| 4-26        | SC-04-015-0071 | Damper Mount Shim                             |
| S-412       |                | Bolt Set: Rear Inboard Wishbone               |
| S-413       |                | Bolt Set: Rear Outboard Upper Wishbone        |
| S-414       |                | Bolt Set: Rear Outboard Lower Wishbone        |
| S-415       |                | Bolt Set: Lower Wishbone Damper Bracket       |
| S-416       |                | Bolt Set: Rear Track Rod                      |
| S-417       |                | Bolt Set: RH/ LH Rear Track Rod Lock Nuts     |
| TH – 2      | SC-04-041-0260 | Front Wishbone Outboard Upper/ Rear Track Rod |
| TH – 3      | SC-04-041-0262 | Rear Wishbone Inboard                         |
| TH – 4      | SC-04-041-0263 | Rear Wishbone Outboard Upper                  |
| TH – 6      | SC-04-041-0265 | Rear Wishbone Outboard Lower                  |

|      |                                                                   |
|------|-------------------------------------------------------------------|
| 4-16 | Damper springs must conform to championship organiser regulations |
|------|-------------------------------------------------------------------|

## Driver Controls



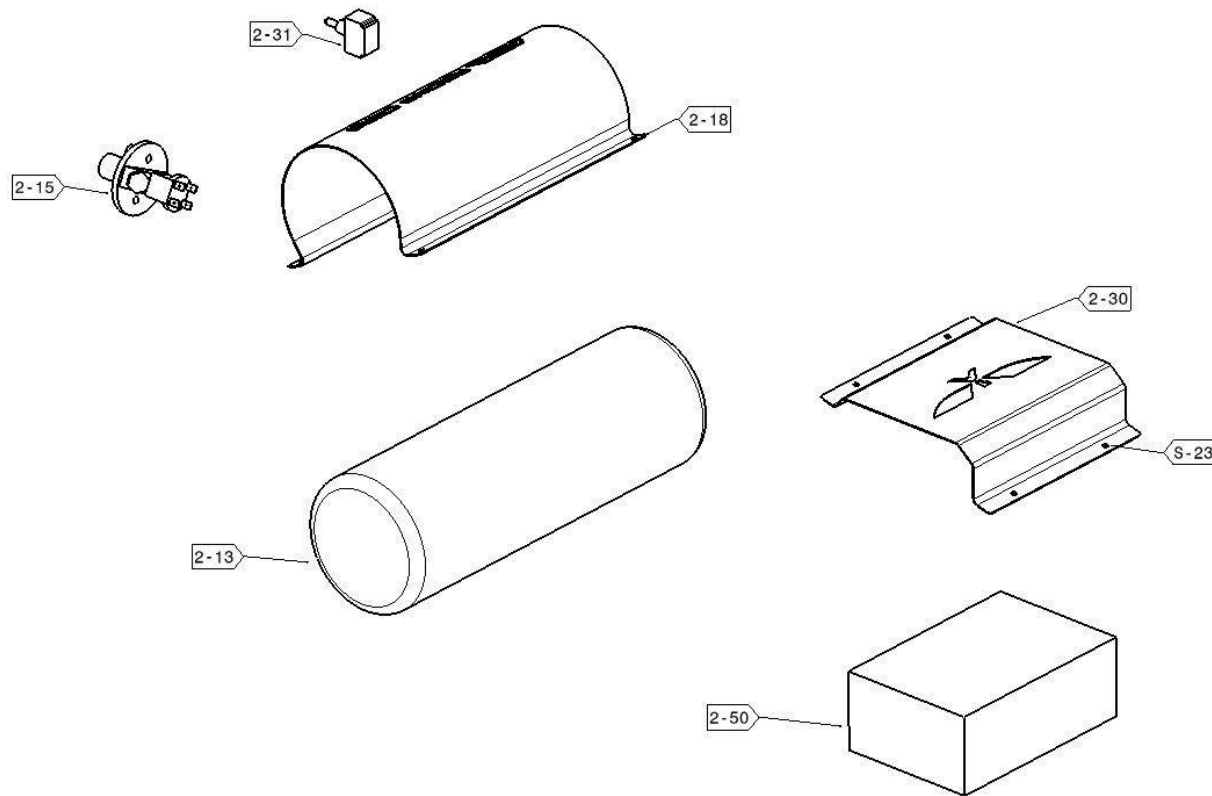
|      | A | B | C |
|------|---|---|---|
| 2-01 |   | X |   |
| 2-02 | X |   |   |
| 2-03 | X |   |   |
| 2-04 | X |   |   |
| 2-05 | X |   |   |
| 2-06 | X |   |   |
| 2-07 | X |   |   |
| 2-08 |   | X |   |
| 2-09 | X |   |   |
| 2-10 |   | X |   |
| 2-11 | X |   |   |
| 2-12 | X |   |   |
| 2-14 |   | X |   |
| 2-16 | X |   |   |
| 2-17 | X |   |   |
| 2-49 | X |   |   |
| S-21 |   |   | X |
| S-22 |   |   | X |
| S-24 |   |   | X |

## Driver Controls – Part Numbers

| Item Number | Part Number    | Description                                     |
|-------------|----------------|-------------------------------------------------|
| 2-01        | SC-02-004-0297 | OMP Steering Wheel                              |
| 2-02        | SC-02-004-0298 | Quick Release Steering Boss                     |
| 2-03        | SC-04-004-0284 | Steering Column Upper Tube (with Spline)        |
| 2-04        | SC-02-004-0299 | Steering Column Bushes                          |
| 2-06        | SC-02-004-0281 | Steering Column Lower Tube with Universal Joint |
| 2-07        | SC-02-004-0282 | Steering Column Rack Universal Joint            |
| 2-08        | SC-02-004-0300 | OEM Steering Rack                               |
| 2-09        | SC-02-004-0305 | Front Track Rod Outboard End                    |
| 2-11        | SC-02-026-0188 | Switch Panel                                    |
| 2-12        | SC-02-026-0158 | Display Cover Panel                             |
| 2-14        | SC-02-003-0307 | OEM Gear Lever Selector Unit                    |
| 2-16        | SC-02-003-0411 | Outer Gear Cable                                |
| 2-17        | SC-02-003-0412 | Inner Gear Cable                                |
| 2-49        | SC-01-021-0088 | Steering Rack Mount Left                        |
|             | SC-01-021-0089 | Steering Rack Mount Right                       |
| S-21        |                | Bolt Set: OEM Steering Rack                     |
| S-22        |                | Bolt Set: Switch Panel Covers                   |
| S-24        |                | Bolt Set: OEM Gear Lever Selector Unit          |

|      |                                                               |
|------|---------------------------------------------------------------|
| 2-01 | Must be approved by Aquila Cars A/S.                          |
| 2-02 | Quick release must be approved from Aquila Cars A/S.          |
| 2-03 | Spline must be welded to tube by Aquila Cars A/S.             |
| 2-08 | Gearing (for Steering Rack Ratio) must be original OEM parts. |
| 2-14 | Must be original OEM part.                                    |

## Driver Controls – Safety



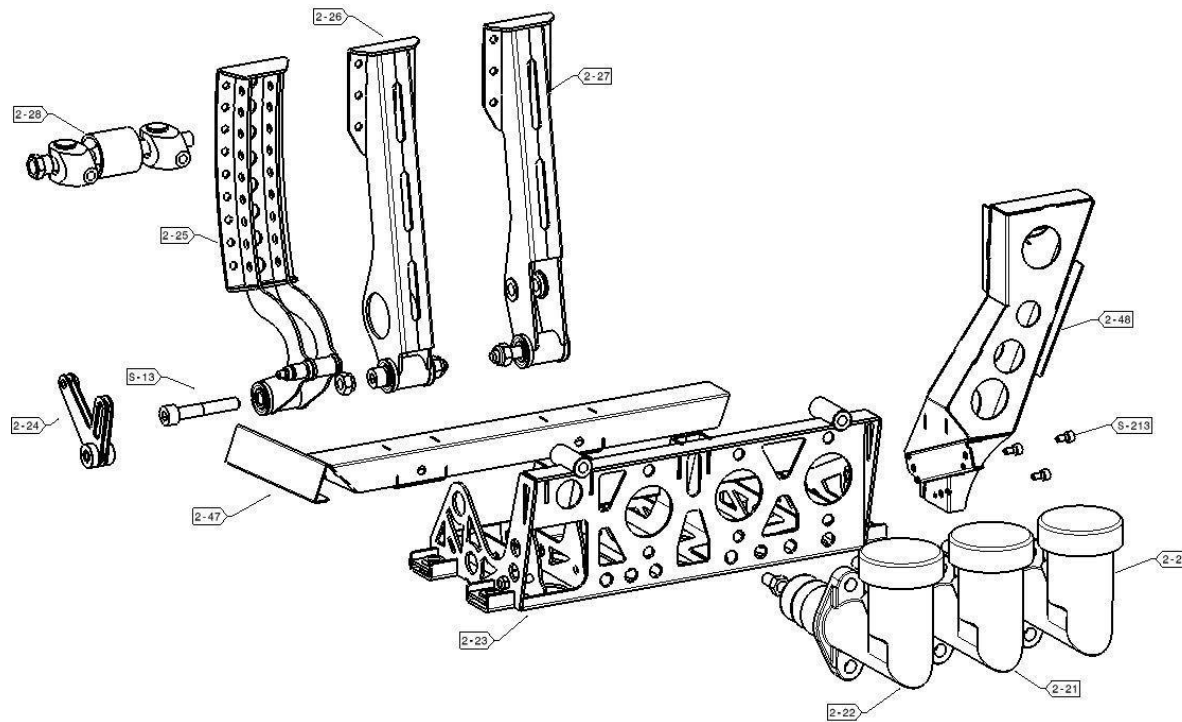
|      | A | B | C |
|------|---|---|---|
| 2-13 |   | X |   |
| 2-15 |   | X |   |
| 2-18 | X |   |   |
| 2-30 | X |   |   |
| 2-31 |   | X |   |
| 2-50 |   | X |   |
| 2-51 |   | X |   |
| S-23 |   |   | X |
| S-25 |   |   | X |
| S-26 |   |   | X |

## Driver Controls – Safety – Part Numbers

| Item Number | Part Number    | Description                               |
|-------------|----------------|-------------------------------------------|
| 2-13        | SC-02-025-0306 | Fire Extinguisher                         |
| 2-15        | SC-02-026-0308 | Driver Electrical Kill Switch             |
| 2-18        | SC-01-001-0187 | Extinguisher Cover                        |
| 2-30        |                | Battery Cover                             |
| 2-31        |                | Ignition Button                           |
| 2-50        |                | Battery                                   |
| 2-51        |                | AiM Solo 2 DL                             |
| S-23        |                | Bolt Set: Fire Extinguisher/Battery Cover |
| S-25        |                | Bolt Set: Safety Belt                     |
| S-26        |                | Bolt Set: Driver Electrical Kill Switch   |
| S-27        |                | Bolt Set: Seat                            |

|      |                                                      |
|------|------------------------------------------------------|
| 2-13 | Must be the extinguisher stated in the Nomenclature. |
|------|------------------------------------------------------|

## Driver Controls – Pedal Box



|       | A | B | C |
|-------|---|---|---|
| 2-20  |   | X |   |
| 2-21  |   | X |   |
| 2-22  |   | X |   |
| 2-23  | X |   |   |
| 2-24  | X |   |   |
| 2-25  | X |   |   |
| 2-26  | X |   |   |
| 2-27  | X |   |   |
| 2-28  |   | X |   |
| 2-47  | X |   |   |
| 2-48  | X |   |   |
| S-28  |   |   | X |
| S-29  |   |   | X |
| S-210 |   |   | X |
| S-211 |   |   | X |
| S-212 | X |   |   |
| S-213 |   |   | X |

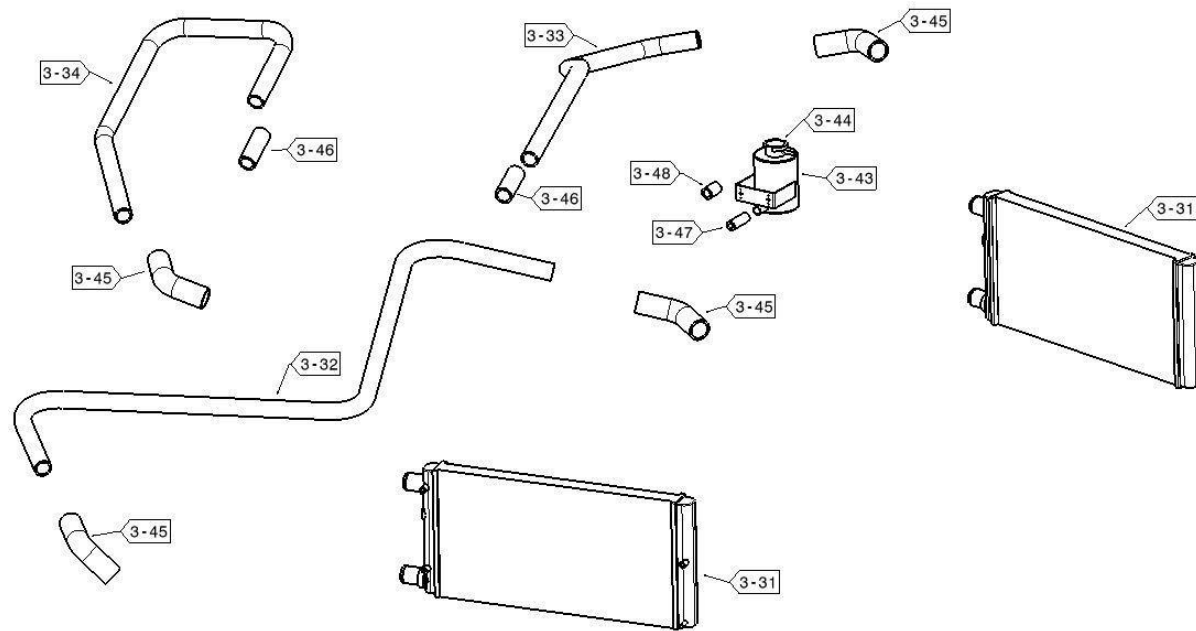
**SYNERGY**

## Driver Controls – Pedal Box – Part Numbers

| Item Number | Part Number    | Description                                     |
|-------------|----------------|-------------------------------------------------|
| 2-20        | SC-02-005-0299 | 0.75" Bore Wilwood Master Cylinder – Clutch     |
| 2-21        | SC-02-005-0298 | 5/8" Bore Wilwood Master Cylinder – Front Brake |
| 2-22        | SC-02-005-0297 | 0.7" Bore Wilwood Master Cylinder – Rear Brake  |
| 2-23        | SC-02-005-0186 | Pedal Box Base                                  |
| 2-24        | SC-02-005-0309 | Throttle Pedal Rocker                           |
| 2-25        | SC-02-046      | Throttle Pedal                                  |
| 2-26        | SC-02-047      | Brake Pedal                                     |
| 2-27        | SC-02-048      | Clutch Pedal                                    |
| 2-28        |                | Brake Balance Bar                               |
| 2-38        |                | Brake Bias Cable                                |
| 2-39        |                | Banjo Bolt Single                               |
| 2-40        |                | Banjo Bolt Double                               |
| 2-41        |                | Brake Light Switch Bolt                         |
| 2-42        |                | 10mm Copper Washer                              |
| 2-43        |                | Brake Hose Complete Kit                         |
| 2-44        |                | Clutch Hose                                     |
| 2-45        |                | Male T-Piece Adaptor                            |
| 2-47        |                | Heel Rest                                       |
| 2-48        |                | Foot Rest                                       |
| S-49        |                | Throttle Cable                                  |
| S-28        |                | Bolt Set: Pedal Box Base to Chassis             |
| S-29        |                | Bolt Set: Throttle Pedal Rocker                 |
| S-210       |                | Bolt Set: Pedal to Pedal Box Base               |
| S-211       |                | Bolt Set: Master Cylinder to Pedal Box Base     |
| S-212       |                | Bolt Set: Throttle Cable Lock-Off               |
| S-213       |                | Bolt Set: Foot Rest to Pedal Box Base           |

|                  |                                             |
|------------------|---------------------------------------------|
| 2-20, 2-21, 2-22 | Must be the part stated in the Nomenclature |
|------------------|---------------------------------------------|

## Powertrain – Cooling System

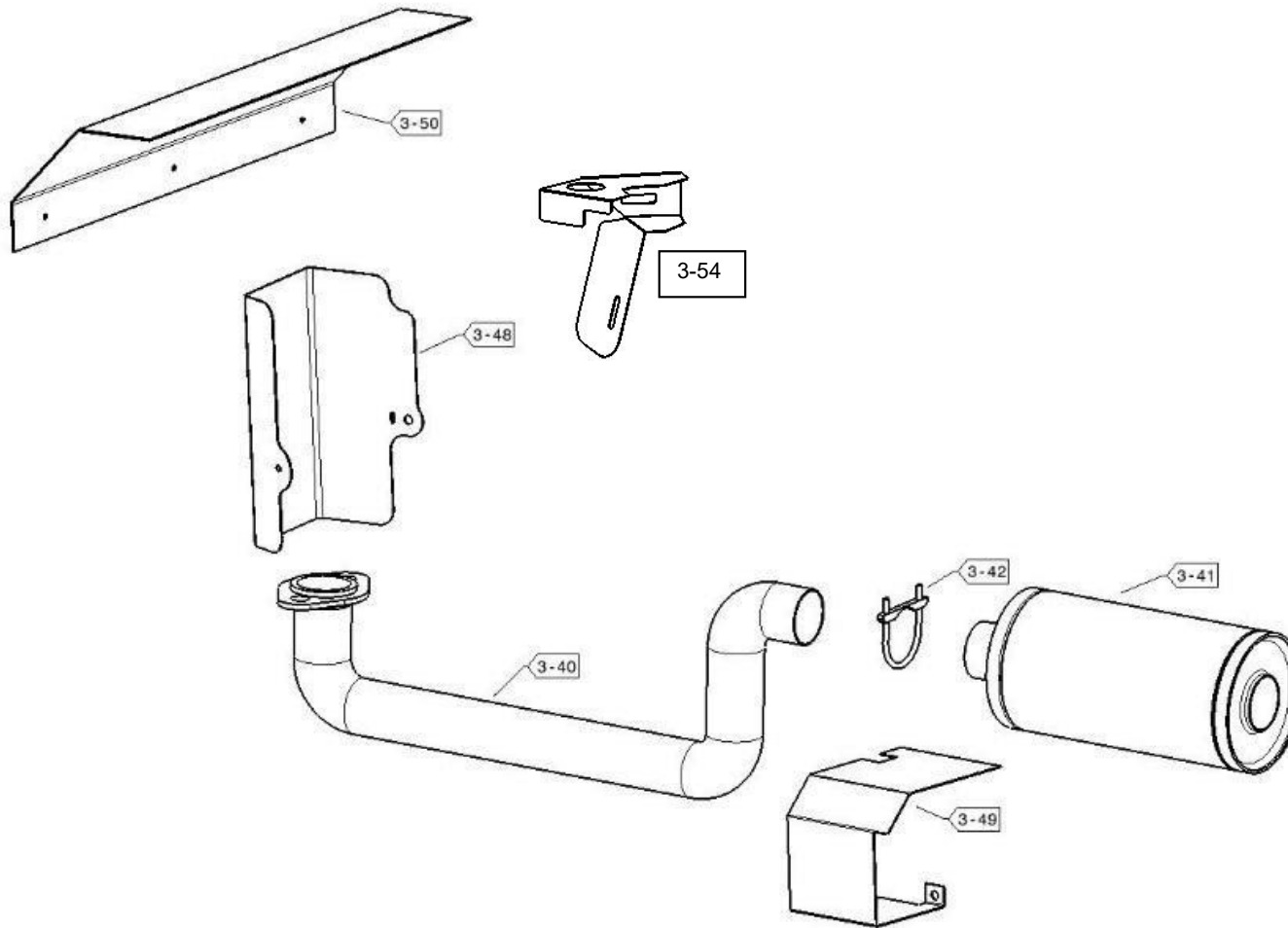


|      | A | B | C |
|------|---|---|---|
| 3-31 | X |   |   |
| 3-32 | X |   |   |
| 3-33 | X |   |   |
| 3-34 | X |   |   |
| 3-43 |   |   | X |
| 3-44 |   |   | X |
| 3-45 | X |   |   |
| 3-46 | X |   |   |
| 3-47 | X |   |   |
| 3-48 | X |   |   |

## Powertrain – Cooling System – Part Numbers

| Item Number | Part Number    | Description                            |
|-------------|----------------|----------------------------------------|
| 3-31        | SC-03-013-0085 | Radiator                               |
| 3-32        | SC-03-013-0519 | Radiator to Radiator Cooling Pipe      |
| 3-33        | SC-03-013-0520 | Upper Left Cooling Pipe                |
| 3-34        | SC-03-013-0521 | Upper Right Cooling Pipe               |
| 3-43        | SC-03-013-0522 | Expansion Tank                         |
| 3-44        | SC-03-013-0523 | Expansion Tank Cap                     |
| 3-45        | SC-03-013-0524 | Aquila Silicon 60 Degree elbow         |
| 3-46        | SC-03-013-0525 | Aquila Silicon Large Diameter Straight |
| 3-47        | SC-03-013-0526 | Aquila Silicon Small Diameter Straight |
| 3-48        | SC-03-013-0527 | Aquila Blanking Hose                   |

## Powertrain – Exhaust System

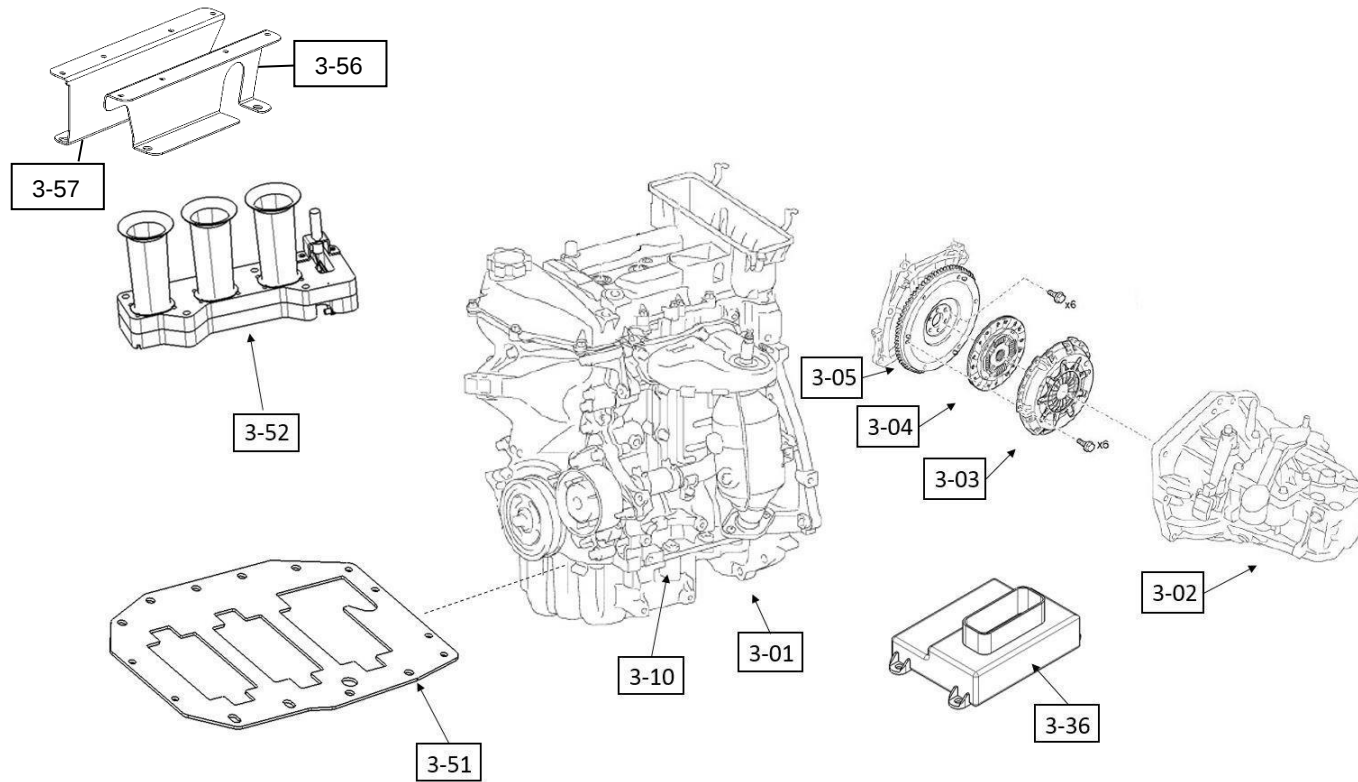


|      | A | B | C |
|------|---|---|---|
| 3-40 | X |   |   |
| 3-41 | X |   |   |
| 3-42 |   | X |   |
| 3-48 | X |   |   |
| 3-49 | X |   |   |
| 3-50 | X |   |   |
| 3-54 |   |   | X |

## Powertrain – Exhaust System – Part Numbers

| Item Number | Part Number    | Description                          |
|-------------|----------------|--------------------------------------|
| 3-40        | SC-02-028-0228 | Exhaust                              |
| 3-41        | SC-02-028-0504 | Exhaust Silencer                     |
| 3-42        | SC-02-028-0505 | Exhaust Mount                        |
| 3-48        | SC-02-028-0506 | Exhaust Heat Shield                  |
| 3-49        | SC-03-006-0452 | Exhaust Driveshaft Heat Shield       |
| 3-50        | SC-03-006-0453 | Exhaust Gear Shift Cable Heat Shield |
| 3-54        | SC-03-028-0629 | Catalyst upper heat shield           |

## Powertrain – Engine and Transmission Assembly



|      | A | B | C |
|------|---|---|---|
| 3-01 |   | X |   |
| 3-02 |   | X |   |
| 3-03 |   | X |   |
| 3-06 | X |   |   |
| 3-30 | X |   |   |
| 3-35 | X |   |   |
| 3-36 | X |   |   |
| 3-37 | X |   |   |
| 3-38 | X |   |   |
| 3-51 | X |   |   |
| 3-52 | X |   |   |
| 3-55 | X |   |   |
| 3-56 | X |   |   |
| 3-57 | X |   |   |

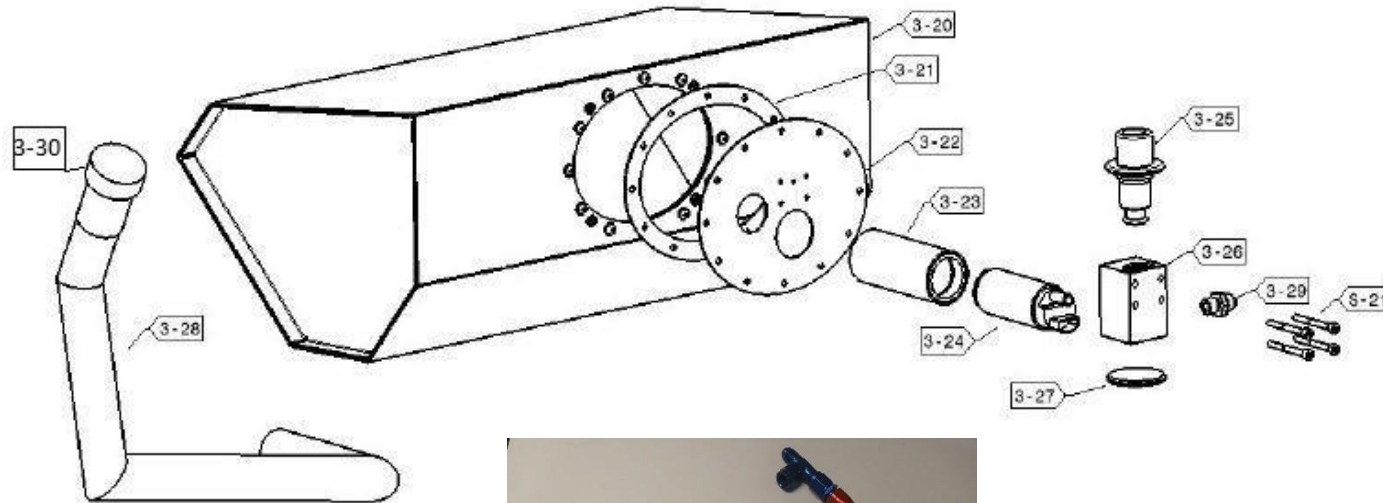


## Powertrain – Engine and Transmission Assembly – Part Numbers

| Item Number | Part Number    | Description                                    |
|-------------|----------------|------------------------------------------------|
| 3-01        | SC-03-006-0394 | 1.0 Litre 3 Cylinder 1KR-FE Engine             |
| 3-02        | SC-03-006-0395 | Gearbox for 1.0 Litre 3 Cylinder 1KR-FE Engine |
| 3-03        | SC-03-006-0396 | OEM Clutch Plate Kit                           |
| 3-06        | SC-03-006-0272 | Adaptor Plate for Moving Oil Filter            |
| 3-30        |                | Oil Filter                                     |
| 3-35        |                | Engine Wire Loom                               |
| 3-36        |                | ECU                                            |
| 3-37        |                | Chassis Wire Loom                              |
| 3-38        |                | Automatic Fuse                                 |
| 3-51        | SC-03-006-0272 | Oil Sump Baffle Plate                          |
| 3-52        |                | Throttle Body                                  |
| 3-55        |                | Clutch Slave Cylinder                          |
| 3-56        | SC-03-027-0607 | Lower Plenum Chamber Bracket                   |
| 3-57        | SC-03-027-0606 | Upper Plenum Chamber Bracket                   |

|                  |                                                                                                                                                                                                                                     |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3-01             | Engine must use original OEM parts. Servicing and cleaning is allowed. The installation of the Oil Sump Baffle Plate, Oil Filter Adaptor and Aquila Synergy Throttle Body are the only allowed changes. Engine code must be 1KR-FE. |
| 3-02             | Gearbox must use original OEM parts. Servicing and cleaning is allowed.                                                                                                                                                             |
| 3-03, 3-04, 3-05 | Must use OEM parts, and adhere to the weight restriction as set out on page 7 Paragraph 5.12.                                                                                                                                       |

## Powertrain – Fuel System



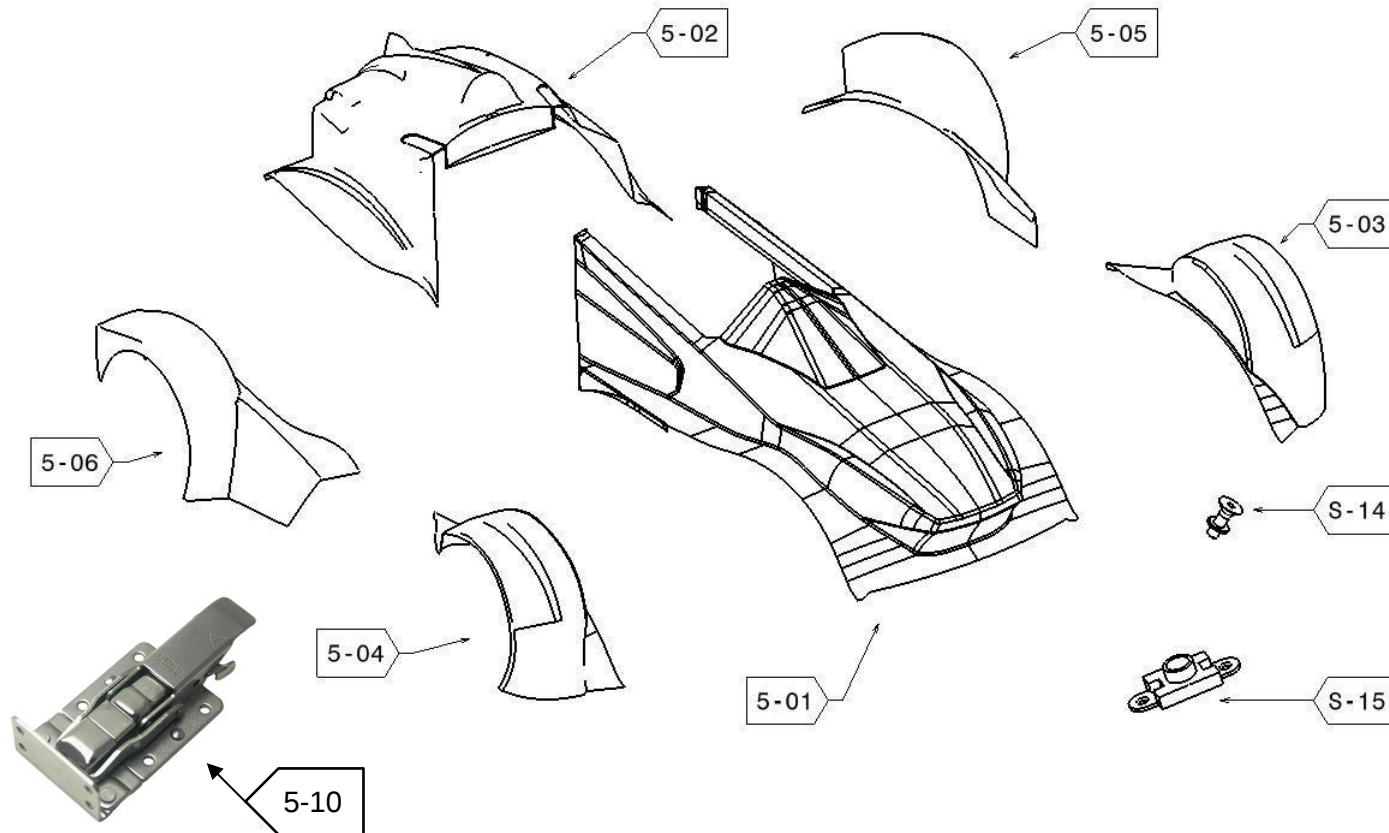
|      | A | B | C |
|------|---|---|---|
| 3-20 | X |   |   |
| 3-21 | X |   |   |
| 3-22 | X |   |   |
| 3-23 | X |   |   |
| 3-24 |   | X |   |
| 3-25 |   | X |   |
| 3-26 | X |   |   |
| 3-27 | X |   |   |
| 3-28 | X |   |   |
| 3-29 |   |   | X |
| 3-30 | X |   |   |
| 3-53 | X |   |   |
| S-32 |   |   | X |
| S-33 |   |   | X |
| S-34 |   |   | X |

## Powertrain – Fuel System – Part Numbers

| Item Number | Drawing Number | Description                                                     |
|-------------|----------------|-----------------------------------------------------------------|
| 3-20        | SC-03-008-0413 | Fuel Cell                                                       |
| 3-21        | SC-03-008-0104 | Access Panel Mounting Gasket                                    |
| 3-22        | SC-03-008-0102 | Access Panel                                                    |
| 3-23        | SC-03-008-0414 | Fuel Pump Housing                                               |
| 3-24        | SC-03-008-0415 | Fuel Pump                                                       |
| 3-25        | SC-03-008-0416 | Fuel Regulator                                                  |
| 3-26        | SC-03-008-0417 | Fuel Regulator Housing                                          |
| 3-27        | SC-03-008-0418 | Fuel Regulator Plug                                             |
| 3-28        | SC-03-008-0419 | Fuel Filler Neck                                                |
| 3-29        | SC-03-008-0005 | Dash-6 Outlet Fitting                                           |
| 3-30        |                | Fuel Filler Neck Cap                                            |
| 3-53        |                | 3-Way DASH6 fitting and Fuel line with Break-away coupling male |
| S-32        |                | Bolt Set: Fuel Regulator Housing Mounting Bolts                 |
| S-33        |                | Bolt Set: Access Panel Mounting Bolts                           |
| S-34        |                | Bolt Set: Fuel Regulator O-Ring Kit                             |

|            |                              |
|------------|------------------------------|
| 3-24, 3-25 | Must use original OEM parts. |
|------------|------------------------------|

## Bodywork



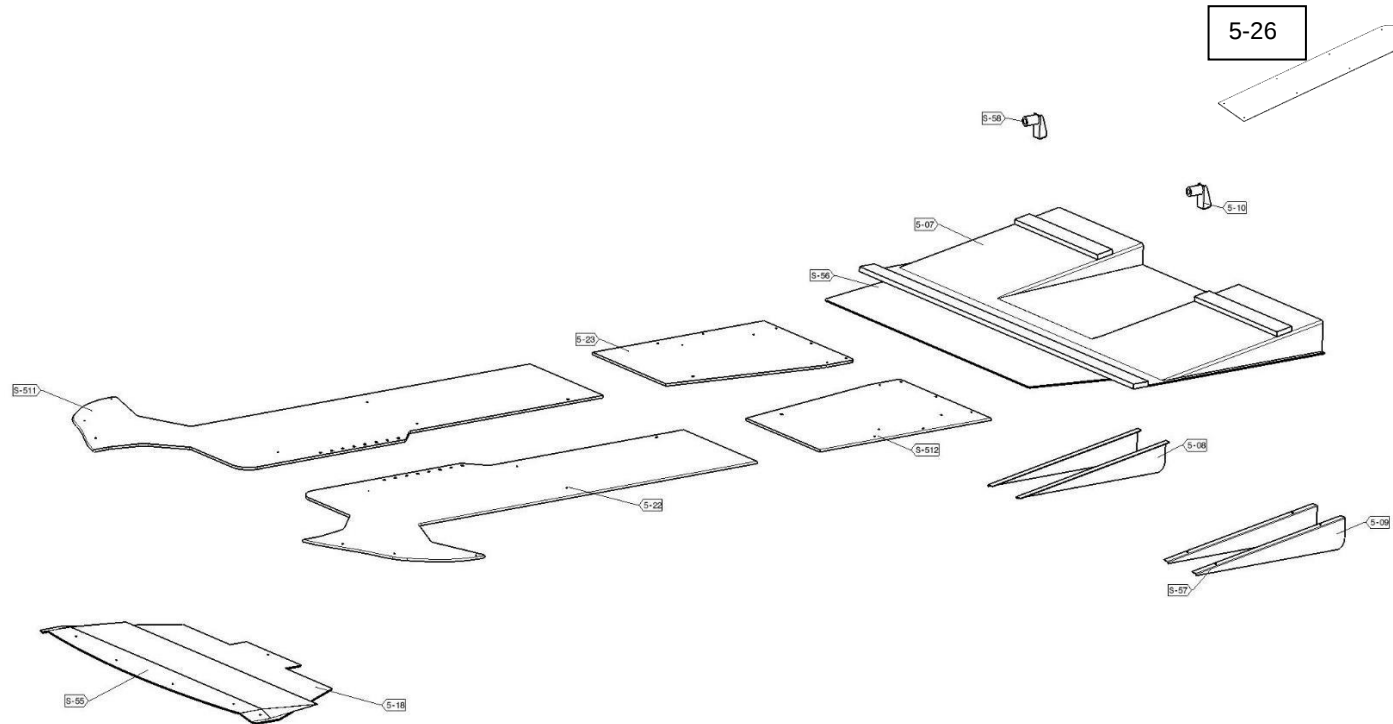
|      | A | B | C |
|------|---|---|---|
| 5-01 |   | X |   |
| 5-02 |   | X |   |
| 5-03 |   | X |   |
| 5-04 |   | X |   |
| 5-05 |   | X |   |
| 5-06 |   | X |   |
| 5-10 | X |   |   |
| 5-19 | X |   |   |
| 5-20 | X |   |   |
| 5-21 | X |   |   |
| S-51 |   |   | X |
| S-52 |   |   | X |
| S-53 |   |   | X |
| S-54 |   |   | X |

## Bodywork – Part Numbers

| Item Number | Part Number    | Description               |
|-------------|----------------|---------------------------|
| 5-01        | SC-05-017-0273 | Front Centre Section      |
| 5-02        | SC-05-017-0274 | Rear Centre Section       |
| 5-03        | SC-05-017-0275 | Front Left Fender         |
| 5-04        | SC-05-017-0276 | Front Right Fender        |
| 5-05        | SC-05-017-0277 | Rear Left Fender          |
| 5-06        | SC-05-017-0278 | Rear Right Fender         |
| 5-10        |                | Rear Fender Latch         |
| 5-19        | SC-06-040-0365 | Brake Light Bracket Left  |
|             | SC-06-040-0366 | Brake Light Bracket Right |
| 5-20        | SC-06-040-0404 | Brake Light Cover Left    |
|             | SC-06-040-0405 | Brake Light Cover Right   |
| 5-21        | SC-06-040-0367 | Brake Light               |
| 5-25        |                | Rain Light incl. bracket  |
| S-51        |                | Bolt Set: Front Fender    |
| S-52        |                | Bolt Set: Rear Fender     |
| S-53        |                | Bolt Set: Centre Section  |
| S-54        |                | Bolt Set: Brake Light     |

|                                                |                                            |
|------------------------------------------------|--------------------------------------------|
| 5-01, 5-02, 5-03,<br>5-04, 5-05, 5-06,<br>5-07 | All parts can be painted or Vinyl Wrapped. |
|------------------------------------------------|--------------------------------------------|

## Bodywork – Floor

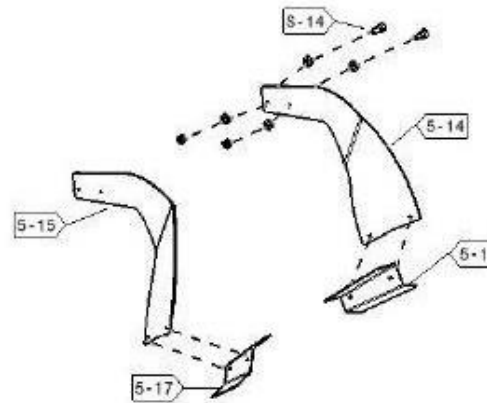
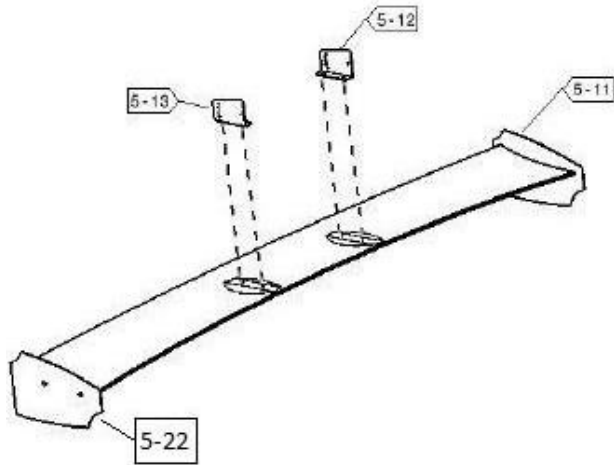


|       | A | B | C |
|-------|---|---|---|
| 5-07  | X |   |   |
| 5-08  | X |   |   |
| 5-09  | X |   |   |
| 5-10  | X |   |   |
| 5-18  | X |   |   |
| 5-22  | X |   |   |
| 5-23  | X |   |   |
| 5-26  | X |   |   |
| S-55  |   |   | X |
| S-56  |   |   | X |
| S-57  |   |   | X |
| S-58  |   |   | X |
| S-511 |   |   | X |
| S-512 |   |   | X |

## Bodywork – Floor – Part Numbers

| Item Number | Part Number    | Description                             |
|-------------|----------------|-----------------------------------------|
| 5-07        | SC-05-055-0407 | Diffuser                                |
| 5-08        | SC-05-055-0346 | Diffuser Left Strake                    |
| 5-09        | SC-05-055-0345 | Diffuser Right Strake                   |
| 5-10        | SC-05-055-0347 | Side Mount                              |
| 5-18        | SC-05-054-0408 | Front Floor                             |
| 5-22        | SC-05-054-0551 | Front Wooden Floor Left                 |
|             |                | Front Wooden Floor Right                |
| 5-23        | SC-05-054-0552 | Rear Wooden Floor Left                  |
|             |                | Rear Wooden Floor Right                 |
| 5-26        | SC-05-055-0637 | Diffuser heat shield                    |
| S-55        |                | Bolt Set: Mounting Front Floor          |
| S-56        |                | Bolt Set: Diffuser to Chassis           |
| S-57        |                | Bolt Set: Strakes to Diffuser           |
| S-58        |                | Bolt Set: Diffuser to Side Mount        |
| S-511       |                | Bolt Set: Front Wooden Floor to Chassis |
| S-512       |                | Bolt Set: Rear Wooden Floor to Chassis  |

## Bodywork – Rear Wing



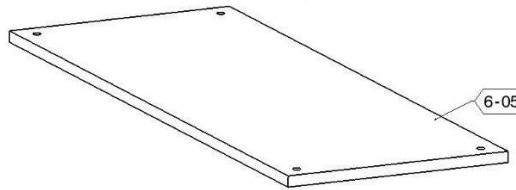
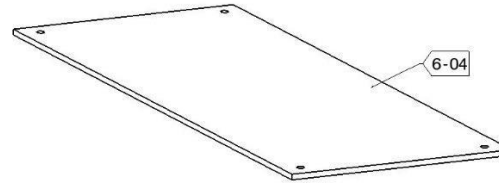
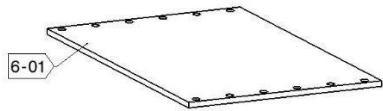
|       | A | B | C |
|-------|---|---|---|
| 5-11  |   | X |   |
| 5-12  | X |   |   |
| 5-13  | X |   |   |
| 5-14  |   | X |   |
| 5-15  |   | X |   |
| 5-16  | X |   |   |
| 5-17  | X |   |   |
| 5-22  | X |   |   |
| 5-24  | X |   |   |
| 5-25  | X |   |   |
| S-59  |   |   |   |
| S-510 |   |   |   |

## Bodywork – Rear Wing – Part Numbers

| Item Number | Part Number    | Description                                       |
|-------------|----------------|---------------------------------------------------|
| 5-11        | SC-05-056-0406 | Rear Wing                                         |
| 5-12        | SC-05-056-0350 | Adjustable Wing Bracket                           |
| 5-13        | SC-05-056-0351 | Adjustable Wing Bracket                           |
| 5-14        | SC-05-056-0349 | Wing Mount Left                                   |
| 5-15        | SC-05-056-0348 | Wing Mount Right                                  |
| 5-16        | SC-05-056-0354 | Wing Mount Bodywork Attachment Plate Left         |
| 5-17        | SC-05-056-0353 | Wing Mount Bodywork Attachment Plate Right        |
| 5-22        | SC-05-056-0352 | Rear Wing End Plate                               |
| 5-24        |                | Rear Wing Support Brace                           |
| 5-25        | SC-05-056-0118 | Rear Wing Cross Brace                             |
| S-59        |                | Bolt Set: Adjustable Wing Mount to Wing Mount     |
| S-510       |                | Bolt Set: Wing Mount to Bodywork Attachment Plate |

|                  |                                  |
|------------------|----------------------------------|
| 5-11, 5-14, 5-15 | Can be painted or Vinyl wrapped. |
|------------------|----------------------------------|

## Vehicle Setup – Ballast Plates



|      | A | B | C |
|------|---|---|---|
| 6-01 | X |   |   |
| 6-02 | X |   |   |
| 6-03 | X |   |   |
| 6-04 | X |   |   |
| 6-05 | X |   |   |

## Vehicle Setup – Ballast Plates – Part Numbers

| Item Number | Part Number    | Description                     |
|-------------|----------------|---------------------------------|
| 6-01        | SC-07-069-0553 | Pedal Box Ballast Plate – 2.5Kg |
| 6-02        | SC-07-069-0554 | Pedal Box Ballast Plate – 4.6Kg |
| 6-03        | SC-07-069-0555 | Pedal Box Ballast Plate – 9.3Kg |
| 6-04        | SC-07-069-0556 | Seat Ballast Plate – 5.6Kg      |
| 6-05        | SC-07-069-0557 | Seat Ballast Plate – 11.3Kg     |

## Bolt Set Description

| Bolt Set Name                       | Bolt Set Number | Bolt Description |             |             |     | Nut Description |       |     | Washer Description |          |          |     |
|-------------------------------------|-----------------|------------------|-------------|-------------|-----|-----------------|-------|-----|--------------------|----------|----------|-----|
|                                     |                 | Bolt Diameter    | Bolt Length | Bolt Head   | QTY | Diameter        | Type  | QTY | Internal Diameter  | Type     | Material | QTY |
| Mounting Crashbox to Chassis        | S-11            | M5               | 20          | Cap Allen   | 6   | N/A             | N/A   | N/A | 5mm                | Nordlock | Steel    | 6   |
| Rear Roll Hoop to Subframe          | S-12            | M10              | 30          | Cap Allen   | 6   | 10mm            | Nyloc | 6   | 10mm               | Standard | Steel    | 6   |
| Radiator Floor                      | S-13            | M5               | 16          | Countersunk | 7   | N/A             | N/A   | N/A | N/A                | N/A      | N/A      | N/A |
| Radiator Centre Duct                | S-14            | M5               | 16          | Countersunk | 2   | N/A             | N/A   | N/A | N/A                | N/A      | N/A      | N/A |
|                                     |                 | M5               | 16          | Button      | 1   | N/A             | N/A   | N/A | N/A                | N/A      | N/A      | N/A |
| Right Angle Locator through Floor   | S-15            | M5               | 16          | Countersunk | 2   | N/A             | N/A   | N/A | N/A                | N/A      | N/A      | N/A |
| Subframe to Monocoque               | S-16            | M10              | 60          | Cap Allen   | 4   | N/A             | N/A   | N/A | N/A                | N/A      | N/A      | N/A |
|                                     |                 | M10              | 70          | Cap Allen   | 2   | N/A             | N/A   | N/A | N/A                | N/A      | N/A      | N/A |
| Lower Engine Bracket to Subframe    | S-17            | M8               | 25          | Cap Allen   | 2   | N/A             | N/A   | N/A | 8mm                | Nordlock | Steel    | 2   |
| Diffuser Mount                      | S-18            |                  |             |             |     |                 |       |     |                    |          |          |     |
| Right Angle Locator through Housing | S-19            | M5               | 12          | Button      | 2   | N/A             | N/A   | N/A | N/A                | N/A      | N/A      | N/A |
| Gear Cable Mount to Subframe        | S-110           | M10x1.25         | 50          | Hex         | 2   | N/A             | N/A   | N/A | 10mm               | Standard | Steel    | 2   |
|                                     |                 | M10x1.25         | 50          | Hex         | 1   | N/A             | N/A   | N/A | 10mm               | Standard | Steel    | 1   |
| Front Steering Arm                  | S-41            | M8               | 30          | Cap Allen   | 2   | N/A             | N/A   | N/A | 8mm                | Nordlock | Steel    | 2   |
| Retainer Plate                      | S-42            | M5               | 16          | Button      | 8   | N/A             | N/A   | N/A | N/A                | N/A      | N/A      | N/A |
| Brake Caliper                       | S-43            | M10              | 30          | Cap Allen   | 2   | N/A             | N/A   | N/A | 10mm               | Nordlock | Steel    | 2   |
| OEM Wheel Bolts                     | S-44            | M12              | 30          | OEM Hex     |     | N/A             | N/A   | N/A | N/A                | N/A      | N/A      | N/A |
| Rear Steering Arm                   | S-45            | M8               | 50          | Cap Allen   | 1   | 8mm             | Nyloc | 1   | 8mm                | Standard | Steel    | 1   |
| Brake Disc Screw                    | S-46            | M6               | 10          | Countersunk | 1   | N/A             | N/A   | N/A | N/A                | N/A      | N/A      | N/A |



|                                     |       |     |     |           |     |      |                |     |      |          |       |     |
|-------------------------------------|-------|-----|-----|-----------|-----|------|----------------|-----|------|----------|-------|-----|
| Front Inboard Wishbone Upper/ Lower | S-47  | M8  | 45  | Cap Allen | 2   | 8mm  | Nyloc          | 2   | N/A  | N/A      | N/A   | N/A |
| Outboard Upper Wishbone             | S-48  | M8  | 50  | Cap Allen | 1   | 8mm  | Nyloc          | 1   | 8mm  | Standard | Steel | 2   |
| Damper to Mounting Brackets         | S-49  | M8  | 50  | Cap Allen | 2   | 8mm  | Nyloc          | 2   | N/A  | N/A      | N/A   | N/A |
| Lower Wishbone Bracket              | S-410 | M6  | 30  | Button    | 2   | 6mm  | Nyloc          | 2   | N/A  | N/A      | N/A   | N/A |
| Outboard Lower Wishbone             | S-411 | M8  | 65  | Cap Allen | 1   | 8mm  | Nyloc          | 1   | 8mm  | Standard | Steel | 2   |
| Rear Inboard Wishbone               | S-412 | M8  | 35  | Cap Allen | 2   | 8mm  | Nyloc          | 2   |      |          |       |     |
| Rear Outboard Upper Wishbone        | S-413 | M8  | 65  | Cap Allen | 1   | 8mm  | Nyloc          | 1   | 8mm  | Standard | Steel | 2   |
| Rear Outboard Lower Wishbone        | S-414 | M8  | 50  | Cap Allen | 1   | 8mm  | Nyloc          | 1   | 8mm  | Standard | Steel | 1   |
| Lower Wishbone Damper Bracket       | S-415 | M6  | 30  | Button    | 2   | 6mm  | Nyloc          | 2   | N/A  | N/A      | N/A   | N/A |
| Rear Track Rod                      | S-416 | M8  | 50  | Cap Allen | 1   | 8mm  | Nyloc          | 1   | 8mm  | Standard | Steel | 1   |
| RH/ LH Rear Track Rod Lock Nuts     | S-417 | N/A | N/A | N/A       | N/A | 8mm  | Lock Nut RH/LH | 2   | N/A  | N/A      | N/A   | N/A |
| Steering Rack                       | S-21  | M12 | 100 | Cap Allen | 2   | 12mm | Nyloc          | 2   | 12mm | Standard | Steel | 4   |
|                                     |       | M5  | 16  | Button    | 8   |      |                |     |      |          |       |     |
| Switch Panel Covers                 | S-22  | M5  | 12  | Button    | 12  | N/A  | N/A            | N/A | N/A  | N/A      | N/A   | N/A |
| Gear Lever Selector Unit            | S-24  | M6  | 30  | Cap Allen | 4   | N/A  | N/A            | N/A | 6mm  | Penny    | Steel | 4   |
| Fire Extinguisher/ Battery Cover    | S-23  | M5  | 16  | Cap Allen | 8   | N/A  | N/A            | N/A | N/A  | N/A      | N/A   | N/A |
| Safety Belt                         | S-25  | M8  | 30  | Cap Allen | 4   | N/A  | N/A            | N/A | 8mm  | Nordlock | Steel | 4   |
| Driver Kill Switch                  | S-26  | M6  | 40  | Cap Allen | 2   | 6mm  | Flanged Nyloc  | 2   | N/A  | N/A      | N/A   | N/A |
| Seat to Chassis                     | S-27  | M8  | 25  | Button    | 8   | 8mm  | Standard       | 4   | N/A  | N/A      | N/A   | N/A |
|                                     |       |     |     |           |     | 8mm  | Nyloc          | 4   |      |          |       |     |



| Bolt Set Name                         | Bolt Set Number | Bolt Description |             |             |     | Nut Description |                |     | Washer Description |             |          |     |
|---------------------------------------|-----------------|------------------|-------------|-------------|-----|-----------------|----------------|-----|--------------------|-------------|----------|-----|
|                                       |                 | Bolt Diameter    | Bolt Length | Bolt Type   | QTY | Diameter        | Type           | QTY | Diameter           | Type        | Material | QTY |
| Pedal Box Base to Chassis             | S-28            | M8               | 25          | Cap Allen   | 4   | N/A             | N/A            | N/A | N/A                | N/A         | N/A      | N/A |
| Throttle Pedal Rocker                 | S-29            | M5               | 25          | Hex         | 1   | 5mm             | Nyloc          | 1   |                    |             |          |     |
| Pedal to Pedal Box Base               | S-210           | M8               | 50          | Cap Allen   | 1   | 8mm             | Nyloc          | 1   | 8mm                | Standard    | Steel    | 2   |
| Master Cylinder to Pedal Box Base     | S-211           |                  |             |             |     |                 |                |     |                    |             |          |     |
| Throttle Cable Wire Locker            | S-212           |                  |             |             |     |                 |                |     |                    |             |          |     |
| Fuel Regulator Housing Mounting Bolts | S-32            | M5               | 50          | Cap Allen   | 4   | N/A             | N/A            | N/A | 5mm                | Standard    | Nylon    | 4   |
|                                       |                 | M5               | 8           | Button      | 4   |                 |                |     | 5mm                | Standard    | Steel    | 4   |
| Access Panel Mounting Bolts           | S-33            | M5               | 18          | Button      | 12  | N/A             | N/A            | N/A | 5mm                | Standard    | Nylon    | 12  |
| Fuel Regulator O-Ring Kit             | S-34            |                  |             |             |     |                 |                |     |                    |             |          |     |
| Front Fender to Centre Section        | S-51            | M5               | 12          | Countersunk | 8   | 5mm             | Nyloc          | 8   | 5mm                | Countersunk | Plastic  | 8   |
| Rear Fender to Centre Section         | S-52            | M5               | 12          | Countersunk | 9   | 5mm             | Nyloc          | 9   | 5mm                | Countersunk | Plastic  | 9   |
|                                       |                 | M5               | 16          | Countersunk | 3   | 5mm             | Floating Nyloc | 3   |                    |             |          |     |
| Centre Section to Chassis             | S-53            | M5               | 12          | Countersunk | 8   |                 |                |     | 5mm                | Countersunk | Plastic  | 8   |
| Brake Light                           | S-54            | M5               | 12          | Countersunk | 5   | 5mm             | Nyloc          | 5   | 5mm                | Countersunk | Plastic  | 5   |
| Mounting Front Floor                  | S-55            | M5               | 16          | Button      | 19  | 5mm             | Nyloc          | 12  | 5mm                | Penny       | Steel    | 30  |
| Diffuser to Chassis                   | S-56            | M5               | 16          | Countersunk | 4   | 5mm             | Nyloc          | 2   | 5mm                | Penny       | Steel    | 6   |
|                                       |                 | M5               | 16          | Button      | 6   |                 |                |     |                    |             |          |     |
| Strakes to Diffuser                   | S-57            | M5               | 12          | Button      | 8   | 5mm             | Nyloc          | 8   |                    |             |          |     |
|                                       | S-58            | M10              | 100         | Cap Allen   | 2   | 10mm            | Standard       | 2   | 10mm               | Standard    | Steel    | 2   |



# SYNERGY

|                                         |       |    |    |        |   |      |                  |   |      |       |       |   |
|-----------------------------------------|-------|----|----|--------|---|------|------------------|---|------|-------|-------|---|
| Diffuser to Side Mount                  |       |    |    |        |   | 10mm | Flanged Standard | 2 | 10mm | Penny | Steel | 2 |
| Adjustable Wing Mount to Wing Mount     | S-59  | M6 | 20 | Button | 4 | 6mm  | Nyloc            | 4 |      |       |       |   |
| Wing Mount to Bodywork Attachment Plate | S-510 | M5 | 16 | Button | 4 | 5mm  | Nyloc            | 4 |      |       |       |   |

## Top Hats Description

| Item Number | Part Number    | Description                                   | QTY |
|-------------|----------------|-----------------------------------------------|-----|
| TH-1        | SC-04-041-0260 | Front Wishbone Outboard Upper/ Rear Track Rod | 2   |
| TH-2        | SC-04-041-0261 | Front Wishbone Inboard                        | 4   |
| TH-3        | SC-04-041-0262 | Front Wishbone Outboard Lower                 | 2   |
| TH-4        | SC-04-041-0263 | Rear Wishbone Inboard                         | 4   |
| TH-5        | SC-04-041-0264 | Rear Wishbone Outboard Upper                  | 2   |
| TH-6        | SC-04-041-0265 | Rear Wishbone Outboard Lower                  | 2   |