

Monoposto[®] Racing Club

Monoposto Technical Specification Mygale F4 2023

For
Monoposto & Tiedeman Trophy
Championships



This specification incorporates the following documents;

- 2021 F4 British Championship - Technical Regulations pages 22-35 (30 March 2021)
- Mygale M14-F4 Ford F4 British Championship User Manual (V1.8)
- Mygale 1.6T M14-F4 Ford Parts Catalogue (28.01.2021)

These documents shall be considered a single technical document for technical compliance purposes for Monoposto Championship regulations.

The intention of this specification is to provide a reference document to enable the technical aspects of the original championship cars to be maintained to allow a home for these cars in Monoposto Championships.

Monoposto Championship regulations take precedence over this specification. The organiser (Monoposto Racing Club) reserve the right to amend this specification as may be considered necessary for the stability of the championships..

None of the Sporting or Commercial aspect of the original championship regulations are applicable to any Monoposto Championships.

Where original regulations are not specifically mentioned in Monoposto Regulations, the Monoposto Regulations apply.

Neil Brown Engineering Ltd have agreed to provide continued engine compliance and repair services to the relevant engines and ancillary items on a competitor customer basis in coordination with Monoposto Racing Club and also to provide eligibility support as required by the organiser.

5 TECHNICAL REGULATIONS

5.1 Introduction

The following Technical Regulations are set out in accordance with the Motorsport UK specified format and it should be clearly understood that if the following texts do not clearly specify that you can do it you should work on the principle that you cannot.

Once supplied, the car's components may not be modified in any way whatsoever except where specifically permitted by the Technical Regulations or with the written permission of the organisers after consultation with the manufacturer. Any such modifications will only be permitted if they are deemed absolutely necessary after a problem has been clearly identified.

5.1.1 The F4 British Championship is governed by the following Technical Regulatory documents. Competitors are required to read and understand:

- F4 British Championship M14-F4 User Manual – latest version, as listed on fiaformula4.com website
- F4 British Championship M14-F4 Parts Catalogue – latest version, as listed on fiaformula4.com website
- 2021 F4 British Championship Technical Regulations
- 2021 FIA Formula 4 Technical Regulations Appendix J, Article 274 latest issue

Specifications detailed in the User Manual and Parts Catalogue will take precedence.

5.1.2 During the entire Meeting, no screen, cover or other obstruction which in any way obscures any part of a car will be allowed at any time in the paddock, garages, pitlane or grid unless it is clear any such covers are needed solely for mechanical reasons, which could, for example, include protecting against fire.

In addition to the above the following are specifically not permitted:

- a) Engine, gearbox or radiator covers whilst engines are being changed or moved around the garage.
- b) Covers over spare wings when they are on a stand in the pitlane not being used.
- c) Parts such as (but not limited to) spare floors, fuel rigs or tool trolleys may not be used as an obstruction.
- d) Temporary covers over suspension components (including spring/damper assemblies and roll bars) when front damper hatch or rear bodywork is removed.

The following are permitted:

- d) Covers which are placed over damaged cars that have been withdrawn from the meeting or damaged components that have been removed from a car.
- e) A cover over the car in the team's awning overnight.
- f) A cover over the car in the pitlane or grid if it is raining.



Awning fronts should remain open whilst cars are inside the awning, throughout the circuit-open times of the Meeting, unless approval has been given by a Championship Official for the awning to be closed.

5.2 General Description

- 5.2.1 The 2021 F4 British Championship is solely for Mygale M14-F4 FIA (homologation number 2015-02-F4-Mygale) Formula 4 cars powered by the Ford 1600 EcoBoost engine (homologation number 2015-03-F4-Ford), which must comply at all times with the Regulation Documents defined in 5.1.1.

Each car's Motorsport UK Race Technical Passport document for that chassis must be available for presentation at any point during each meeting.

5.2.2 Examination of Vehicles

The organisers (in addition to any other powers they may have under these Regulations) reserve the right before or after any race in the championship to designate any one or more of the competing cars for special eligibility scrutineering. Upon such election being made, the competitor shall immediately place the car under the control of the organisers and be deemed to have permitted all such scrutineering, examination and testing as the organisers may responsibly require to undertake. The organisers have the right to:

- (a) Examine the car at the circuit for such period as they may reasonably require and take fuel and lubricant samples
- (b) Retain the car for detailed examination at premises chosen by the organisers. If the organisers elect to retain the car they shall make it available for collection by the competitor at least seven days prior to the qualification session for the next race in the championship unless the car is found to be in breach of these Regulations
- (c) In the event of an engine being required by the organisers in order to determine compliance with the regulations during the course of a meeting, the relevant competitor must surrender the engine to the Championship Eligibility Scrutineer as soon as such notification is given. Under these circumstances, the organisers may choose to deliver another engine to the competitor concerned until the original is returned. The use of this spare engine will be at no cost to the competitor provided it is returned with its official seals intact and its usage is bound by the same terms as the original engine Provider Contract.
- (d) Re-inspect vehicles at any time during the course of the season, should there have been a regulation infringement or circuit incident.
- (e) Seal the car and its components in accordance with Motorsport UK Regulations in such a manner as they may choose and require the competitor at their own expense to present the car at any other premises chosen by the organisers for detailed examination within a specified period and/or remove the car by transporter at no expense to the competitor to an appointed location. The competitor will be advised



in writing of the time, date and location of the subsequent testing or eligibility examination.

Competitors will be personally and solely responsible for ensuring that their cars comply with their registration details and with these Regulations for each meeting at which they are entered. Failure to comply in either respect will be a breach of these Regulations. Queries concerning eligibility should be referred in writing to the Championship Eligibility Scrutineer at least seven days prior to a meeting entered, to permit a ruling in advance of any meeting at which it is intended to compete.

5.3 Safety Requirements

5.3.1 The following Articles of Motorsport UK Section K Safety Criteria Regulations will apply unless specified otherwise in the current FIA Formula 4 Technical Regulations Appendix J Article 274 and/or the current F4 British Championship Technical Regulations: [K 1]; [K 1.4]; [K 1.6.3]; [K 1.6.4]; [K 3]; [K 4]; [K 5]; [K 6]; [K 7]; [K 8]; [K 11] and [K 13].

5.3.2 Driver's Safety Kit

All driver's safety kit must be compliant with the FIA standards as listed in Appendix F of these regulations.

5.3.3 Crash Helmets

Only Crash Helmets compliant with one of the following FIA standards may be used:

- FIA standard 8859-2015
- FIA standard 8860-2004
- FIA standard 8860-2010

5.3.4 Frontal Head Restraint

The use of a Frontal Head Restraint device is mandatory in accordance with Motorsport UK Regulation [Q 12.1.1 (e)], compliant with one of the following FIA standards:

- FIA Standard 8858-2002
- FIA Standard 8858-2010

5.3.5 Flame Resistant Clothing

Drivers must wear flame resistant clothing in accordance with FIA Standard 8856-2000 and FIA Appendix L to the International Sporting Code. This includes flame resistant under-clothing.

There is a minimum overlap required in the neck area (between the balaclava and the top underwear) of 3cm, except on the front central line where the overlap shall be at least of 8cm as shown in Figure 1.

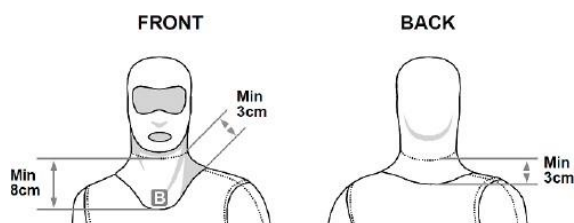


Figure 1 – minimum overlapping at the neck area

5.3.6 Seat Belts

Seat belts, as a type 1 part, must be compliant with F4 British Championship M14-F4 Parts Catalogue – latest version, as listed on fiaformula4.com website.

5.3.7 Biometric Or Physiological Monitoring Device

Any biometric or physiological monitoring device worn by a competitor must comply with all current safety regulations and be declared to the Championship Eligibility Scrutineer, who in conjunction with the BTCC Medical Director will make the final decision about its use. Any data recorded must be shared in full with the Championship Eligibility Scrutineer and Medical Directors upon request.

5.4 General Technical Requirements & Exceptions

5.5 Chassis

5.5.1 In accordance with

- F4 British Championship M14-F4 User Manual – latest version, as listed on fiaformula4.com website
- F4 British Championship M14-F4 Parts Catalogue – latest version, as listed on fiaformula4.com website
- 2021 F4 British Championship Technical Regulations
- 2021 FIA Formula 4 Technical Regulations Appendix J, Article 274

5.5.2 The Championship Eligibility Scrutineer will maintain the list of F4 British Championship M14-F4 registered chassis that are permitted to compete in the championship. No Team/Entrant may run more than four chassis in the championship unless agreed in writing by the organisers.

5.5.3 Spare cars are not permitted. However any part of the car (excluding the survival cell) may be changed at any time during the Meeting.

No driver may use more than one car at the same Meeting. After initial scrutineering the survival cell may only be changed if the Championship Eligibility Scrutineer is satisfied that a change is necessary following accident damage. Any replacement survival cell must be presented to the Championship Eligibility Scrutineer for inspection and may have no components prefitted to it. Following the change the car must then be re-presented for scrutineering.

- 5.5.4 The decision whether a car has been repaired or changed will be taken by the Clerk of the Course, based upon a report by the Championship Eligibility Scrutineer.
- 5.5.5 Any car which has passed initial scrutineering may not be removed from the confines of the circuit during the remainder of the Meeting.
- 5.5.6 Accident Data Recorder (ADR): All participating vehicles are mandated to mount the Accident Data Recorder acquisition system specified in the 2021 F4 British Championship Technical Regulations. Any costs relating to the purchase of the Accident Data Recorder, to its installation and to its proper operation shall be the responsibility of the Competitors.

The Competitors shall be responsible for ensuring that the Accident Data Recorder is in operating order and that the system is activated throughout the meeting. The data obtained must be surrendered upon request by the Championship Eligibility Scrutineer at any point in the Championship or at any moment in a given meeting.

- 5.5.7 The Championship has the right to record and retain any data gathered by the Championship Officials from each car's onboard data recorders during each meeting and Official Test session, and retains the right to use this data howsoever it chooses.
- 5.5.8 Competitors agree that the selected channels of data and video can be used by instructors appointed by the Championship at the service of drivers' tutoring.

5.6 Bodywork

In accordance with

- F4 British Championship M14-F4 User Manual – latest version, as listed on fiaformula4.com website
- F4 British Championship M14-F4 Parts Catalogue – latest version, as listed on fiaformula4.com website
- 2021 F4 British Championship Technical Regulations
- 2021 FIA Formula 4 Technical Regulations Appendix J, Article 274

- 5.6.1 For all qualifying and race sessions each car must have front wing securely fitted. Should the entire front wing element become fully or partially detached become loose or unstable for any reason, the driver must come into the pits for a repair/replacement at the earliest opportunity. Missing or damaged wing end plates can continue providing they are not deemed unsafe by race officials.

Drivers are reminded that the car weight is determined by the car as it finishes the session or race, therefore a missing front wing may result in the car being underweight.

5.7 Engine

- 5.7.1 In accordance with



- F4 British Championship M14-F4 User Manual – latest version, as listed on fiaformula4.com website
- F4 British Championship M14-F4 Parts Catalogue – latest version, as listed on fiaformula4.com website
- 2021 F4 British Championship Technical Regulations
- 2021 FIA Formula 4 Technical Regulations Appendix J, Article 274

5.7.2 Engine Eligibility

5.7.2.1 The only engines permitted (Registered Engines) in Championship Meetings and Official Tests must have been subjected to a dyno test for performance control, and the installation of the seals by the Championship Eligibility Scrutineer. This dyno test will be performed by the designated Championship Engine Supplier. All Registered Engines must be covered by a service contract with the Championship Engine Supplier.

Once supplied, the engine may not be modified in any way whatsoever, except where specifically permitted by these Technical Regulations, or with the written permission of the Championship Eligibility Scrutineer.

5.7.2.2 Each Team Entrant must register each of their Registered Engines (5.7.2.1) with the Championship Eligibility Scrutineer prior to the start of Official Testing for the opening Meeting of the year. These engines become that Team Entrant's Registered Engines for the season.

5.7.2.3 Each Team Entrant may only have listed the same number of Registered Engines as they have Registered Drivers at each Meeting (to a maximum of 4):

The only exception to this is for a Team Entrant with one Registered Driver at any meeting who may have two Registered Engines listed.

Should a Team Entrant's number of Registered Drivers drop below the number of Registered Engines recorded for that Team, they must declare to the Championship Eligibility Scrutineer prior to the start of Official Testing for the following Meeting which of their Registered Engines they wish to remove from their registered list.

Having removed a Registered Engine from their list, should that Team Entrant's Registered Driver number subsequently increase during the season, the Registered Engine(s) that was originally declared under 5.7.2.2 then removed must then be returned to their registered list, up to the number of Drivers entered by them.

Only if a Team Entrant's number of Registered Drivers increases beyond the number of Registered Engines originally recorded under 5.7.2.2 may an additional Registered Engine be notified to the Championship Eligibility Scrutineer prior to the start of Official Testing for the following Meeting.

Only these Registered Engines may be fitted in any of that Team Entrant's chassis for all Championship Meetings and Official Tests for the duration of the season.



- 5.7.2.4 Any Registered Engine must be presented to the Championship Engine Supplier for dyno test and/or inspection if required to do by Championship Officials at any point during the season.
- 5.7.2.5 No engine may be used in the championship meetings or Official Tests if unsealed or if its origin is not recognised by the organisers.
- 5.7.3 **Engine Seals**
- 5.7.3.1 The Championship Eligibility Scrutineer will attach seals to each Registered Engine prior to it being used for the first time at a meeting.
- 5.7.3.2 It is the competitor's responsibility to ensure that all seals remain intact. Should the Championship Eligibility Scrutineer discover any tampering or seal absence, a report of "Non Compliance" will be submitted to the Clerk of the Course. Seals must be untouched unless or until the Championship Eligibility Scrutineer gives his written permission for their removal/breakage under his supervision.
- 5.7.3.3 Any engine repair, revision or preparation must be carried out only by the Championship Engine Supplier which will provide, together with the Championship Eligibility Scrutineer, for the engine to be re-sealed.
- 5.7.4 **Engine Usage**
- 5.7.4.1 A Registered Engine may be rebuilt once (only by Championship Engine Supplier) during the season provided any parts which are replaced are of identical specification to the original parts. If the engine block, or cylinder head, or sump are replaced during such a rebuild this will be considered a replacement engine.
- 5.7.4.2 After a Registered Engine is rebuilt or replaced, it must be subjected to a dyno test for performance control by the Championship Engine Supplier after completing two race Meetings after the date of rebuild or replacement. This regulation does not apply after the 8th Event of the season, but Championship Organisers reserve the right to require additional dyno test as per 5.7.2.4.
- 5.7.4.3 In addition to the rebuild permitted by Article 5.7.4.1, the engine cam cover seal(s) may be broken by the Championship Eligibility Scrutineer for the purpose of allowing the Championship Engine Supplier to check and adjust valve clearances. Such checks may only be carried out with the permission of the Championship Eligibility Scrutineer and new seal(s) will be applied to the cam cover.
- 5.7.5 **Replacement Engines**
- 5.7.5.1 During a Meeting, an Engine may only be exchanged for a replacement Spare Engine (supplied by the Championship Engine Supplier) where the Championship Eligibility Scrutineer is satisfied that data or inspection prove that a clear mechanical failure or damage has occurred.

Other than approved fitment of such a Spare Engine, no Engine swaps are permitted during any Meetings or Official Tests.

5.7.5.2 An engine will be deemed to have been used once the car's timing transponder has shown that it has left the pitlane.

5.7.5.3 Championship Organisers **will** issue an Official Championship Bulletin which specifies a mandatory lubricant brand and/or oil viscosity which must be used as the sole oil in the engine **during all Official Testing, Qualifying and Races.**

The lubricant testing procedure shall be in accordance with current Motorsport UK Yearbook section D34.8.

5.7.5.4 **Championship Organisers reserve the right to issue an Official Championship Bulletin which specifies a mandatory lubricant brand and/or oil viscosity which must be used as the sole oil in the gearbox during all Official Testing, Qualifying and Races.**

5.7.5.5 Any driver that has obtained three wins during the course of the season, be they consecutive or not, must arrange to return their Registered Engine to the Championship Engine Supplier for dyno test and/or inspection.

This must be completed prior to the Meeting following the Meeting in which the third win occurs.

The engine must be returned to the Championship Engine Supplier for dyno test and/or inspection after every subsequent third win of the Season after such a dyno test.

Championship Organisers reserve the right to allow this mandatory test to be deferred only if they are satisfied that scheduling of the test is impractical before the following meeting.

5.8 Suspensions

In accordance with

- F4 British Championship M14-F4 User Manual – latest version, as listed on fiaformula4.com website
- F4 British Championship M14-F4 Parts Catalogue – latest version, as listed on fiaformula4.com website
- 2021 F4 British Championship Technical Regulations
- 2021 FIA Formula 4 Technical Regulations Appendix J, Article 274

5.8.1 **Anti-roll bar links may be disconnected. If disconnected, the links may be removed.**

5.9 Transmissions

5.9.1 In accordance with

- F4 British Championship M14-F4 User Manual – latest version, as listed on fiaformula4.com website
- F4 British Championship M14-F4 Parts Catalogue – latest version, as listed on fiaformula4.com website
- 2021 F4 British Championship Technical Regulations
- 2021 FIA Formula 4 Technical Regulations Appendix J, Article 274

5.9.2 The only permitted gearbox is the SADEV SL75-14 LW F4, homologated for FIA F4. All six forward gears and a single reverse gear must be fitted at all times when a car runs during a meeting. The only permitted gear ratios, solely supplied by the original manufacturer, are:

Mandatory Gears		Optional Gears			
1 st	14/37	4 th	21/27	or	22/29
2 nd	18/35	5 th	20/22	or	24/28
3 rd	18/28	6 th	27/26	or	22/23

5.9.3 The only permitted original manufacturer Crown Wheel and Pinion ratio is 10/31.

5.9.4 Championship Organisers reserve the right to issue an Official Championship Bulletin which specifies a mandatory lubricant brand and/or oil viscosity which must be used as the sole oil in the transmission.

5.10 Electrics

In accordance with

- F4 British Championship M14-F4 User Manual – latest version, as listed on fiaformula4.com website
- F4 British Championship M14-F4 Parts Catalogue – latest version, as listed on fiaformula4.com website
- 2021 F4 British Championship Technical Regulations
- 2021 FIA Formula 4 Technical Regulations Appendix J, Article 274

5.11 Brakes

5.11.1 In accordance with

- F4 British Championship M14-F4 User Manual – latest version, as listed on fiaformula4.com website
- F4 British Championship M14-F4 Parts Catalogue – latest version, as listed on fiaformula4.com website
- 2021 F4 British Championship Technical Regulations
- 2021 FIA Formula 4 Technical Regulations Appendix J, Article 274

5.11.2 The only permitted brake pads for front and rear brakes are those listed in F4 British Championship M14-F4 Parts Catalogue – latest version, as listed on fiaformula4.com.com website.

- 5.11.3 Championship Organisers reserve the right to issue an Official Championship Bulletin which specifies a mandatory brake fluid brand and/or DOT rating which must be used as the sole brake fluid in the car.

5.12 Wheels/Steering

In accordance with

- F4 British Championship M14-F4 User Manual – latest version, as listed on fiaformula4.com website
- F4 British Championship M14-F4 Parts Catalogue – latest version, as listed on fiaformula4.com
- 2021 F4 British Championship Technical Regulations
- 2021 FIA Formula 4 Technical Regulations Appendix J, Article 274

5.13 Tyres

- 5.13.1 Only the dry-weather tyres which have been supplied at that meeting by the appointed supplier, Mr Tyre Motorsport Ltd, of the following measurements and product number may be used throughout the meeting:

	Pattern	Size	Specification No
Front Tyre	Slick	180/550R13	F200 C92
Rear Tyre	Slick	240/570R13	F200 C92
Front Tyre	Wet	180/550R13	Z206 W52
Rear Tyre	Wet	240/570R13	Z207 W52

The organisers reserve the right to amend these specifications.

Competitors may transport wet-weather tyres from one meeting to another provided they were allocated to them by the appointed supplier.

- 5.13.2 Each new tyre used must be to the specification as supplied by Hankook. Any modification or treatment including cutting, grooving, the application of water, solvents or softeners, the use of heat retaining (and/or cooling) devices or pre-heating/cooling is prohibited. This applies to both wet-weather and dry-weather tyres. Only tyres bearing the Championship Identification Mark may be used during all Official Testing, qualifying and race sessions for each meeting.
- 5.13.3 For the whole duration of the meeting, no artificial warming of the wheel, tyre, or other component of the inflated wheel assembly is permitted. Any tyre protection cover used during transit of the car within the confines of the circuit must be a loose fit onto the tyre, they must not be of a temporary construction and must be capable of being reused many times. No cleaning or removal of rubber pick-up from the tread area of the tyres is permitted using any form of other mechanical aid.
- 5.13.4 Covering of the tyres on the grid is not permissible.

5.13.5 The organisers reserve the right to impound and/or replace meeting nominated tyres at any time before, between and after qualifying and races. Responsibility for the wheels and tyres remain with the competitor throughout the period they are held by the organisers and/or Official Tyre Suppliers.

5.13.6 Slick tyres allotted to each vehicle for each Meeting's qualifying and races are: - Four front tyres new - Four rear tyres new. These tyres must remain new for the qualifying session. Allotted tyres may be used in any combination throughout the meeting.

Wet tyres allotted to each vehicle for each Meeting's qualifying and races are: - Four front tyres new - Four rear tyres new. These wet tyres may be new or used for the qualifying session. If wet tyres are used, the rain light must be switched on.

If wet tyre wear during a Meeting is deemed to be excessive, a meeting of Entrants may be convened in which a majority vote (using a system of one vote per Team Entrant, not one vote per car entered) may decide to allocate one additional set of wet tyres for the remainder of that meeting.

5.13.7 The eight slick tyres allocated for the Meeting must be new and supplied at that Meeting.

5.13.8 A maximum of six new slick tyres per car may be used on any Official Test Day. Test tyres may be supplied prior to the meeting provided they were allocated by the appointed supplier. One used set (2 front and 2 rear tyres) may also be nominated. All tyres must be declared prior to the first session.

Wet tyre usage for Official Test Days will not be limited.

As per article 2.15.1 of these regulations Parc Fermé conditions will apply in team awnings for 30 minutes after each Official Test session in order for tyre checking to take place unless authorisation to release is given by the Championship Scrutineer.

5.13.9 During each meeting, no allocated tyre may be turned or reversed on the rim after initial fitment.

5.13.10 Each competitor must nominate, on the form provided by the Championship Eligibility Scrutineer, the manufacturer's serial numbers of the tyres for use at each meeting. This form must be handed to the Championship Eligibility Scrutineers prior to the start of the first qualifying session.

5.13.11 It is the competitor's responsibility to ensure that the tyre serial numbers to be used during the meeting are correctly recorded on the nomination form.

The Officials appointed for the race will, at any time, during the Meeting, conduct spot-checks.



Non-compliance with this provision will be sanctioned by the Race Officials, up to exclusion from the race.

Pre-heating and any modification or treatment or the application of solvents altering the tyres compound are strictly forbidden.

- 5.13.12 The replacement of any tyre is subject to the prior mutual agreement of the Championship Eligibility Scrutineer and a representative of Hankook Tyres. Any damaged or punctured tyre will be replaced on a “like for like” basis and both tyres must be presented before any approval may be given.
- 5.13.13 Only tyres nominated for that meeting are permitted in the pitlane during official qualifying sessions and races.
- 5.13.14 At the discretion of the organisers, a tyre Parc Fermé may be established at any meeting at any time. In this case, the tyres will be made available to competitors in the tyre Parc Fermé no later than 60 minutes before the qualifying session and/or races.

Competitors will deliver the tyres back to the same place no later than 20 minutes after opening hours of the tyre Parc Fermé established for official qualifying session and each race.

All tyres, when under the control of a team, must remain visible within the team’s designated garage area at all times during circuit-open hours of a meeting.

- 5.13.15 **Procedure for the Testing of Tyres**
The tyre testing procedure shall be in accordance with the Motorsport UK Blue Book section (D)36.

5.14 Vehicle Weight

- 5.14.1 The minimum weight of the car at any time during all Official Testing, Qualifying and Races shall be 560kg.
- 5.14.2 The minimum weight of the car plus driver at any time during all Official Testing, Qualifying and Races shall be 635kg.
- 5.14.3 It is mandatory for all competitors to attend any pre-race driver weighing’s, wearing their full race attire and carrying their helmet and Frontal Restraint System at the time/venue defined in the Pre-Event Information Bulletin.

5.15 Fuel Tank/Fuel

5.15.1 Fuel Tank & Location

In accordance with

- F4 British Championship M14-F4 User Manual – latest version, as listed on fiaformula4.com website



- F4 British Championship M14-F4 Parts Catalogue – latest version, as listed on fiaformula4.com website
- 2021 F4 British Championship Technical Regulations
- 2021 FIA Formula 4 Technical Regulations Appendix J, Article 274

5.15.2 Fuel

The championship fuel will be Petrochem Carless Hyperflo 300. The use of this Championship fuel is mandatory during all Official Testing, Qualifying and Races.

It is not permitted to inject or use any fuel or additive other than that specified in these Regulations.

Fuel samples may be taken at any time during or after Official Testing, qualifying or races to be analysed for conformity.

The fuel testing procedure shall be in accordance with the Motorsport UK Blue Book section (D)34.

To facilitate the taking of fuel samples and to confirm the minimum fuel remaining, fuel may only be obtained via an FIA approved dry break coupling and fitted pipe minimum length 300mm.

A minimum of 3 litres of fuel must remain in the car when it arrives in Parc Fermé at the end of each qualifying session and/or race. Should tests prove that the fuel sample is not that specified for the championship, or there is insufficient fuel remaining in the car (minimum 3 litres), then the competitor will be deemed to be in breach of these championship regulations.

The organisers reserve the right to nominate an alternative fuel.

5.15.3 During all refuelling or fuel handling operations:

- The relevant personnel must be wearing clothing which will provide adequate protection against fire.
- An assistant, wearing clothing which will provide adequate protection against fire, and who is equipped with a suitable fire extinguisher of appropriate capacity must be present.
- During refuelling all other team personnel must keep a safe distance from the car.
- All cars, refuelling equipment and containers must be suitably grounded where necessary.
- Any powered pumping system used to transfer fuel must be operated by a non-latching switch or be turned off automatically if the operator leaves.

No refuelling, or removal of fuel, is permitted:

- During any qualifying session.

b) The race or at any time prior to the completion of post-qualifying or post-race scrutineering.

5.16 Silencing

The vehicle must comply with Motorsport UK Regulations [J 5.17] and [J 5.18] at all times.

5.17 Numbers/Decals

5.17.1 Competition numbers must be displayed in accordance with Motorsport UK Regulation [J 4]. Numbers must have a minimum digit height of 6.25" or 165mm, stroke width 1" or 25mm, bordered by minimum of 1" or 25mm of white backing panel. Cars competing in the Rookie Cup must display their competition numbers over a yellow backing panel.

5.17.2 Branding supplied by the organisers must be displayed in the areas as specified in the Race Car Championship Livery Positions Document contained in the Commercial Undertakings. Failure to adhere to this regulation will be deemed to be a breach of these championship regulations and may result in loss of Championship points.

No car, overalls or team branding may carry any form of sponsorship or advertising which conflicts in any way with FIA or Motorsport UK guidelines, with Ford Motor Company and/or its associate companies or championship sponsors. Any car, overalls or team which do so may not be permitted to take part in the championship. The decision of the organisers is final.



MYGALE M14-F4 FORD

F4 BRITISH CHAMPIONSHIP

CERTIFIED BY FIA - POWERED BY FORD

USER MANUAL



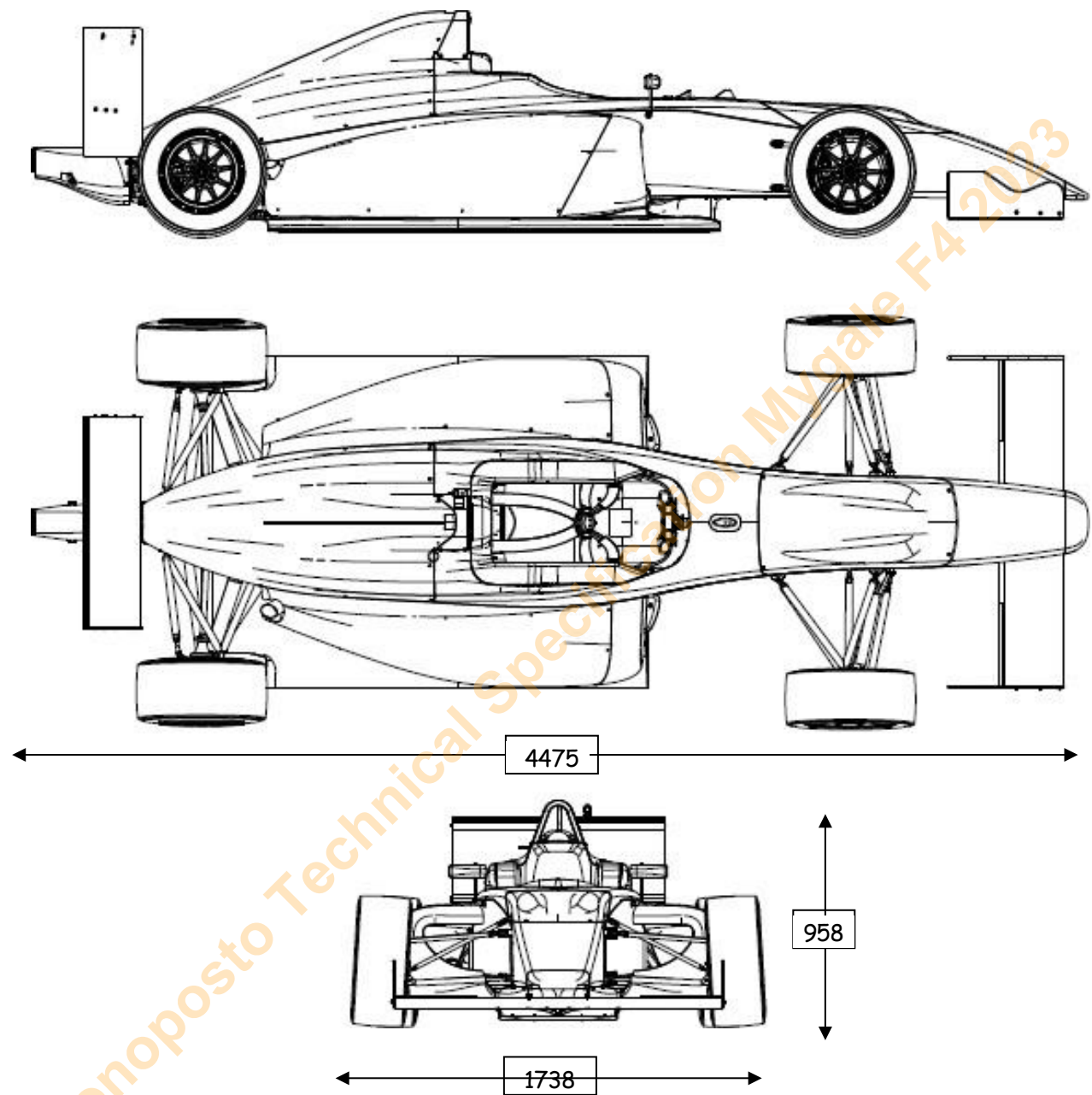
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Version: V1.8

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1.0 Car Views



2.0 CAR SPECIFICATIONS

2.1 DIMENSIONS

Description		Reference Dimensions
Length	mm	4475
Height	mm	958
Front ride height	mm	20
Rear ride height	mm	30
Wheelbase	mm	2742
Front overhang	mm	1005
Rear overhang	mm	723.5
Front overall width	mm	1725 *
Rear overall width	mm	1715 *
Front track	mm	1493.5
Rear track	mm	1430.4
Front wing assy width	mm	1400
Rear wing assy width	mm	898

* depending tyres

2.2 WEIGHT

The minimum allowed weight is specified by sporting regulations of the championship.

The weight of the car should be adjusted by mean of appropriate ballast to ensure that the specified minimum weight is reached with the driver at any time during the event.

2.3 SUPPLIED PARTS: PARTNERS

Gearbox, driveshaft: Sadev



Steering rack: Titan



Springs, dampers: Sachs



Fuel cell, fuel pump: Premier Fuel



Brake pads: Ferodo



Brake discs, callipers: Brembo



Extinguisher : OMP



Harness : TRS Motorsports



Rims : Team Dynamics



3.0 SET UP AND OPTIONS

3.1 GEOMETRY INFORMATION (IN BASELINE SET-UP)

The standard set up of the car is:

	dimension	FRONT	REAR
Ride Height	mm	24	37
Camber	deg	-3.3	-2.2
Toe	deg	0.00	0.00
Castor	deg	8.21	-22.81
Castor Offset (wheel centre)	mm	5.64	---
Castor Offset (ground)	mm	31.23	---
King Pin	deg	15.46	---
King Pin Offset (wheel centre)	mm	69.1	---
King Pin Offset (ground)	mm	15.4	---
Damper-Spring / Wheel	ratio	0.68	0.71
Anti-Roll Bar (deg) / Wheel	ratio	0.69	0.48
Anti Dive	%	14.45	22.13
Ackermann	deg	19.9	---
Roll Center Z	mm	17.8	34.5
Mechanical Trail ¹	mm	30.87	---

Mygale designed the car allowing several adjustments on suspension geometry to give to the teams some freedom in the setup of the car and compensate some tolerances from the manufacturing process.

Despite this big range of adjustments, the car must respect the maximum and minimum values imposed by FIA Technical Regulation at all moments of the race weekend.

¹ Mechanical Trail

The perpendicular distance in side elevation between the steering axis and the centre of tyre contact. It is considered positive when the steering axis is forward of the tyre contact centre and negative when it is rearward.

3.2 SET UP ADJUSTMENT

Values are theoretical, assembly dispersion is possible.

Before start your setup, Mygale advises the teams to check the right position of the ball joints as explained in the technical Bulletin F41-15-BT-04-Ball_joint-V1. A bad adjustment of these components can affect the suspension behaviour.

3.2.1 RIDE HEIGHT CHECK & ADJUSTMENT

The reference points for calculating the ride height are shown below.

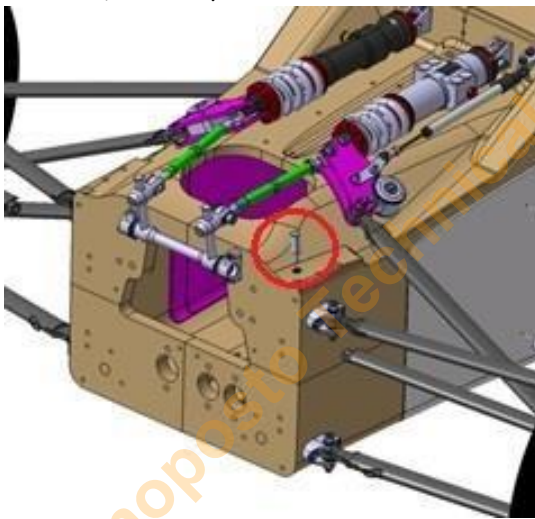
The vehicle reference plane is the lower side of the wood floor. The skid block is below this. The choice of ride height needs to take account of the skid block thickness which is a maximum of 5mm below the reference plane (and minimum 2mm).

The diagrams refer to the dimensions from the chassis reference point to the reference plane.

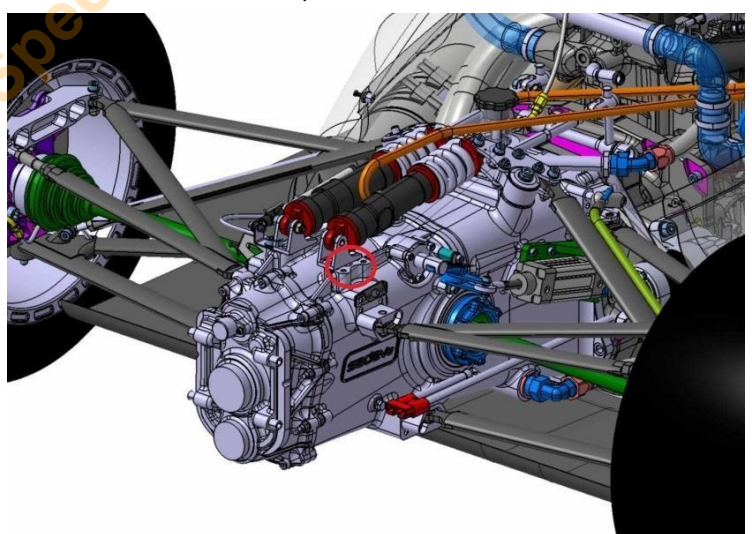
At the front two ride height adjustment screws (F.41.35.001) must be fixed on the two reference pads which are machined into the upper surface of the monocoque and are accessible with the damper cover removed.

At the rear the reference surfaces are machined pads on the gearbox upper surface, at the level of the damper bracket and are accessible with the engine cover removed.

Front reference

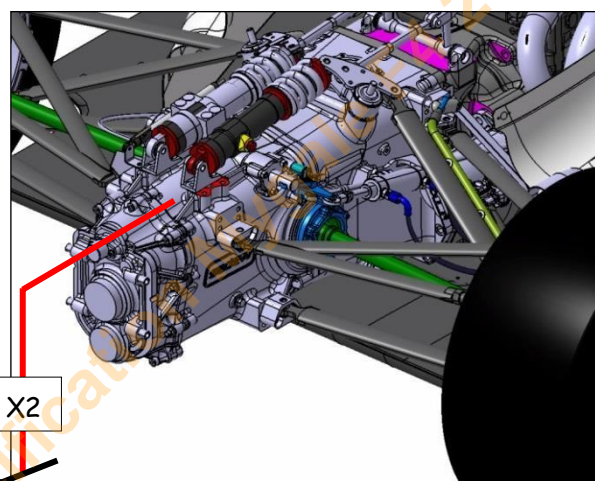
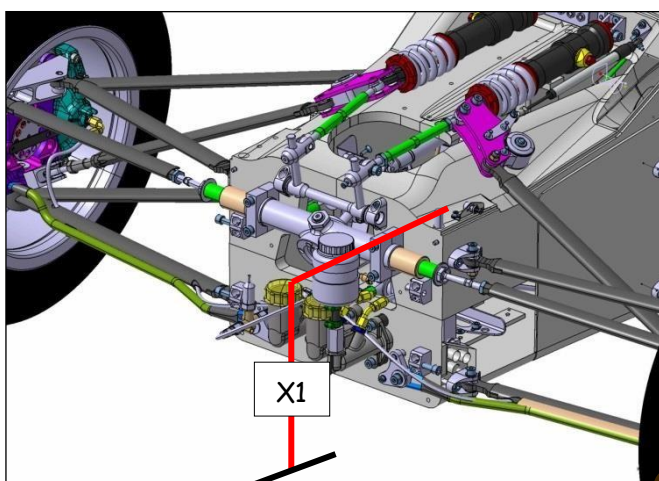
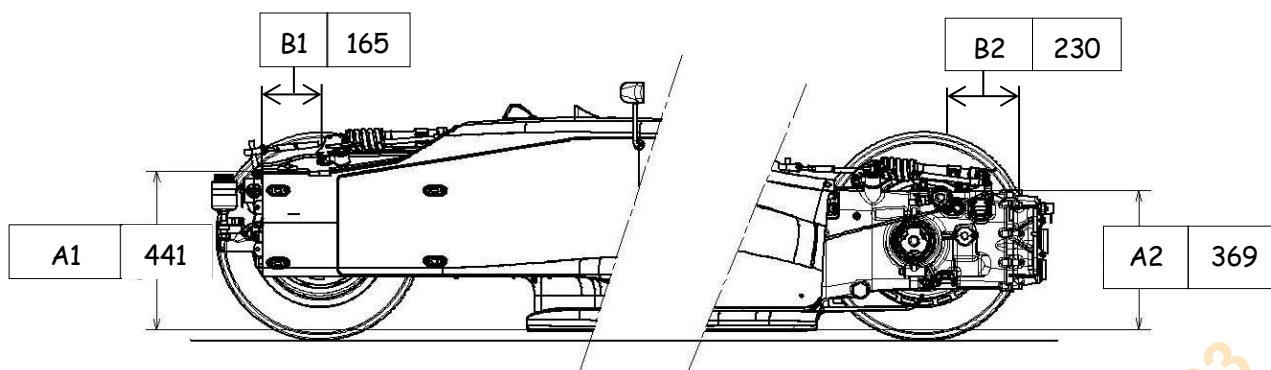


Rear reference



The front reference dimension A1 is 441mm.

The rear reference dimension A2 is 369mm.



To set up front and rear ride height values at the level of the front and rear axle centre lines (H1 and H2 respectively), use the following procedure:
(Dimensions in mm)

1) Define the ride heights values you want in the front (H1) and in the rear (H2).

2) Calculate the car pitch angle with this values:

$$a = \arcsin((H2-H1)/2741.6) \text{ in rad.}$$

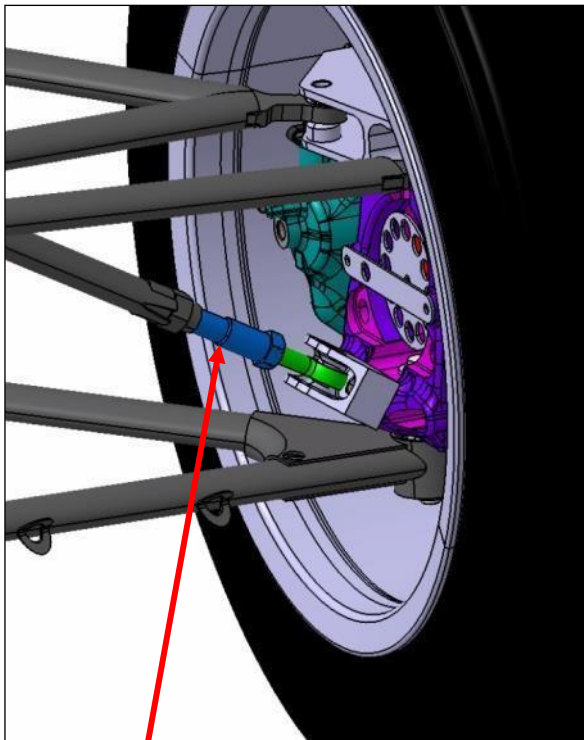
3) Calculate the distances X1 and X2 in the car to obtain the ride height desired:

$$X1 = A1 \cdot \cos(a) - B1 \cdot \sin(a) + H1$$

$$X2 = A2 \cdot \cos(a) + B2 \cdot \sin(a) + H2$$

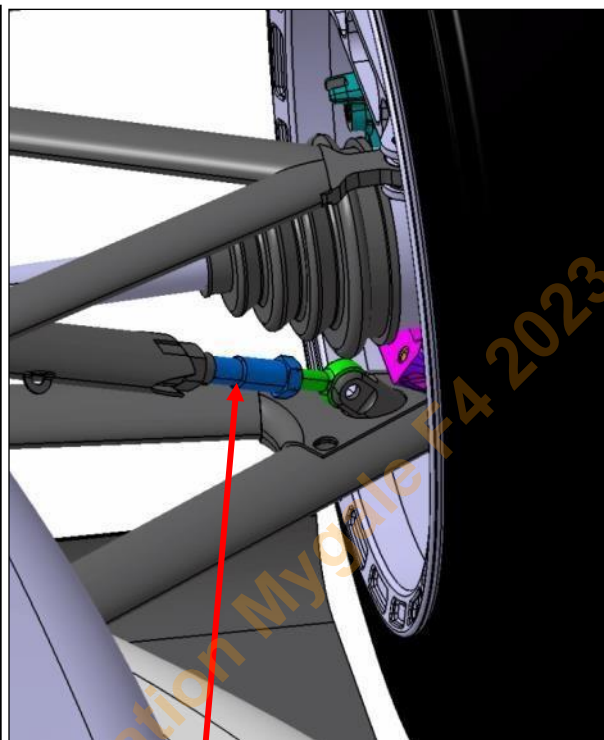
4) Adjust in the car the values X1 and X2 as calculated previously to obtain the ride height.

Ride height adjustment:



Front ride height adjustment

Lengthen adjuster to raise car.
Shorten adjuster to lower car



Rear ride height adjustment

Lengthen adjuster to raise car.
Shorten adjuster to lower car

Front:

Lengths (ball centre to ball centre) for a 20mm ride height: Pushrod 554.6mm.

1 face on the adjuster changes the ride height by 0.95mm.

1 turn on the adjuster changes the ride height by 5.70mm.

For 1mm ride height, 1/6 turn on the adjuster.

Rear:

Lengths (ball centre to ball centre) for a 30mm ride height: Pushrod 527.5mm.

1 face on the adjuster changes the ride height by 1.00mm.

1 turn on the adjuster changes the ride height by 6.00mm.

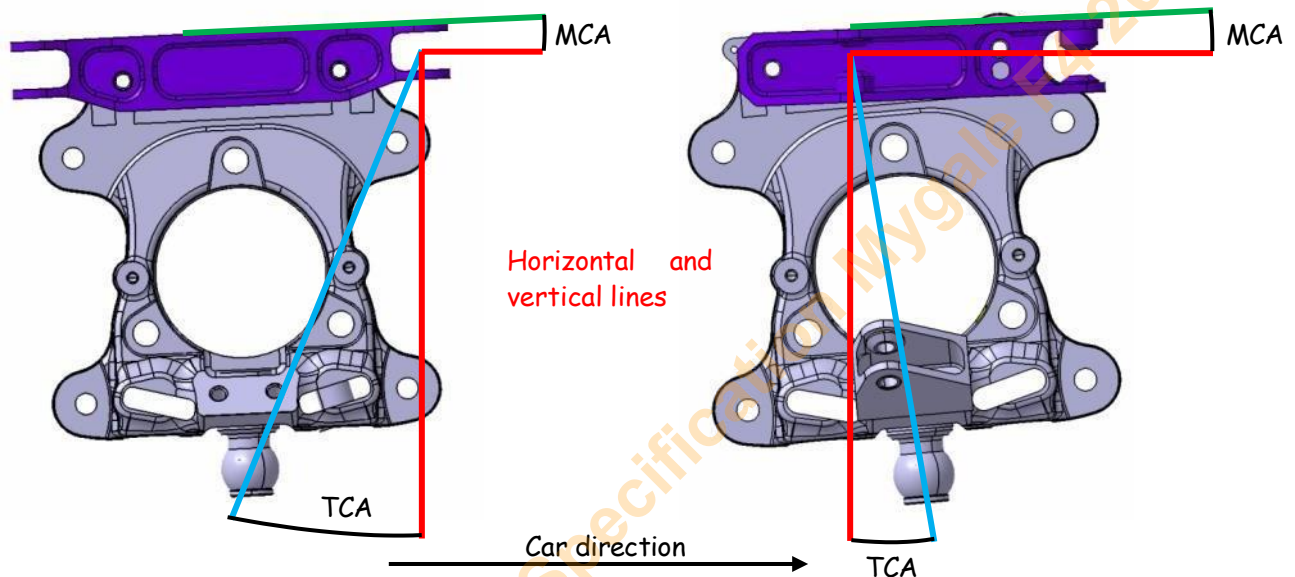
For 1mm ride height, 1/6 turn on the adjuster.

3.2.2 CASTOR CHECK & ADJUSTMENT

The castor angle is the angle, in side elevation, between the steering axis and the vertical. It is considered positive when the steering axis is inclined rearward.

You can check the castor angle in the same way in the front and in the rear suspension. The castor angle can be calculated as follows:

Measure the angle of the steering arm plane for the front (or the wishbone mount plane for the rear) to the horizontal; this is the measured castor angle (MCA). Positive inclined down to rear, negative inclined down to front. Calculate the true castor angle (TCA) as following:



	Front Castor Angle	Rear Castor Angle
True castor angle	$= MCA + 7.08^\circ$	$= MCA - 25.41^\circ$
Base settings	8.21°	-22.81°
Base set up length, wishbone ball centre to ball centre	556.4mm	578.9mm

The Castor angle influences the Castor Offset, the Mechanical Trail and therefore the force to turn the wheel.

Castor Offset, (mm)

The distance in side elevation between the point where the steering axis intersects to the ground, and the center of tyre contact. The offset is considered positive when the intersection point is forward of the tyre contact centre and negative when it is rearward. (Base setting: FRT=31.23mm)

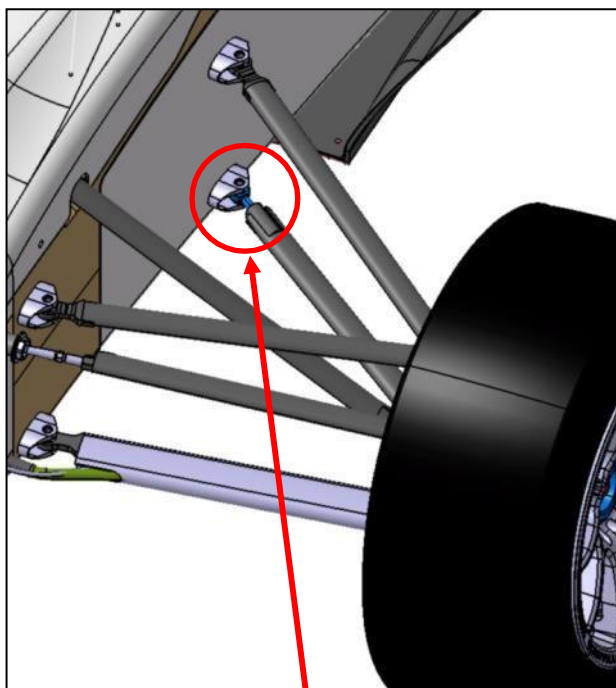
Mechanical Trail, (mm)

The perpendicular distance in side elevation between the steering axis and the centre of tyre contact. It is considered positive when the steering axis is forward of the tyre contact centre and negative when it is rearward. (Base setting: FRT=30.87mm)

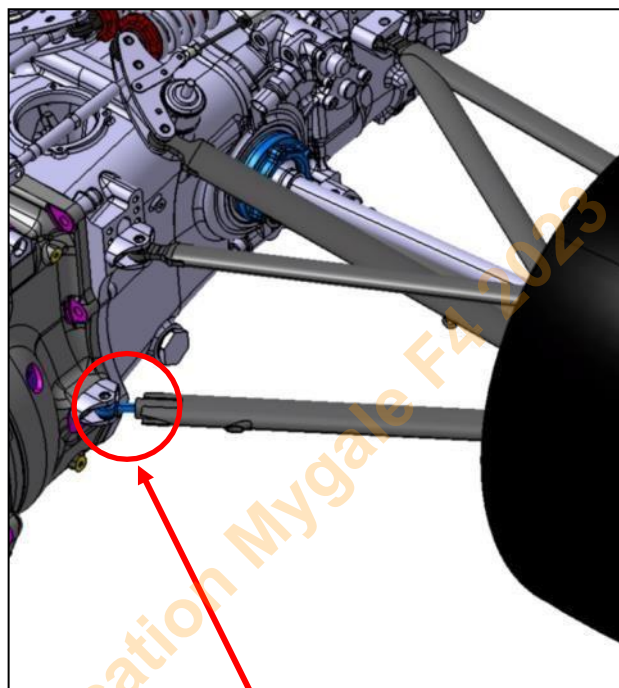
The Castor Offset is along the ground plane while the Mechanical Trail is perpendicular to the steering axis.

Castor adjustment:

Adjust the castor angle with the rod end bearings as shown in the following pictures:



Front castor adjustment



Rear castor adjustment

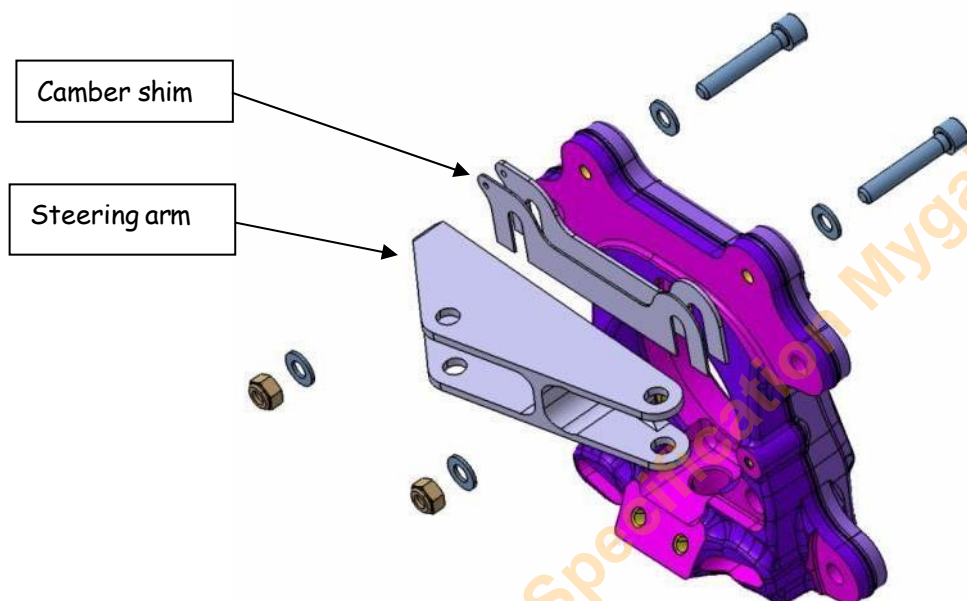
Monoposto Technical Specification Mygale F4 2023

3.2.3 CAMBER ADJUSTMENT

The Camber Angle is the inclination of the wheel plane to the vertical. It is considered positive when the wheel leans outward at the top and negative when it leans inward.

The Camber can be adjusted by releasing the fixing bolts and adding or removing shims between the steering arm and the upright. A change of shim has no influence on the toe setting.

Front (Rear similar)



Available shims:

Part Number	Description
F.41.14.055	Camber shim 1 mm
F.41.14.056	Camber shim 1.5 mm
F.41.14.057	Camber shim 2 mm
F.41.14.058	Camber shim 4 mm

Front

Recommended base setting: $-3,3^\circ$, 2mm of shim

Adjustment: $0.325^\circ/\text{mm}$
1.5mm for 0.5°

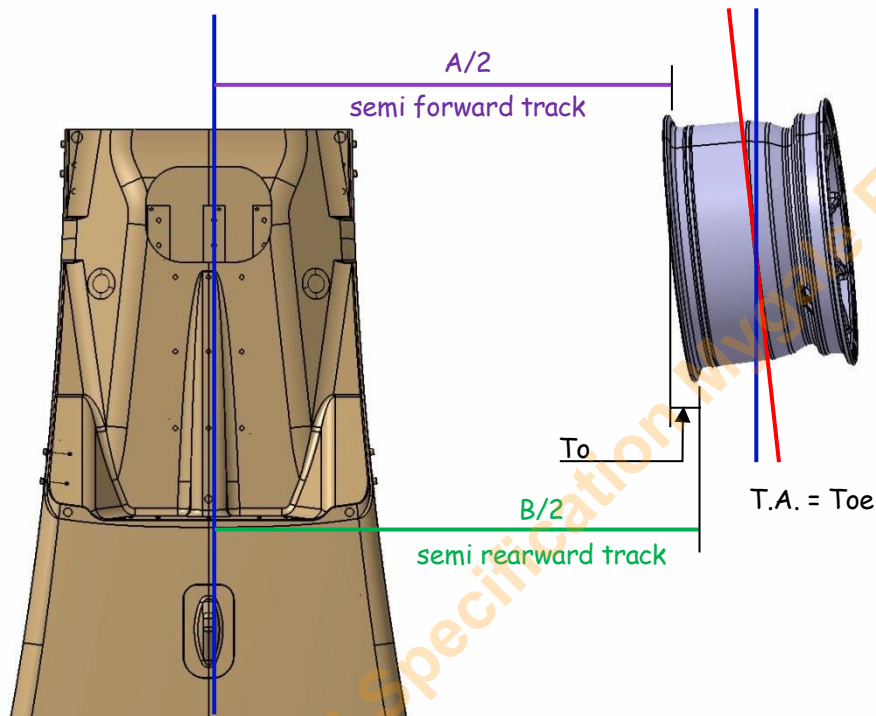
Rear

Recommended base setting: -2.2° , 4.5mm of shim (2mm + 1.5mm+1mm)

Adjustment: $0.300^\circ/\text{mm}$
1.5mm for 0.5°

3.2.4 TOE CHECK & ADJUSTMENT

The toe angle is the angle between a longitudinal axis of the vehicle and the line of intersection of the wheel plane and the road surface. The wheel is "toed-in" if the forward portion of the wheel is turned towards a central longitudinal axis of the vehicle, and "toed-out" if turned away.



Checking the distance between the wheel forward and rearward points in the front suspension is possible to measure the Toe.

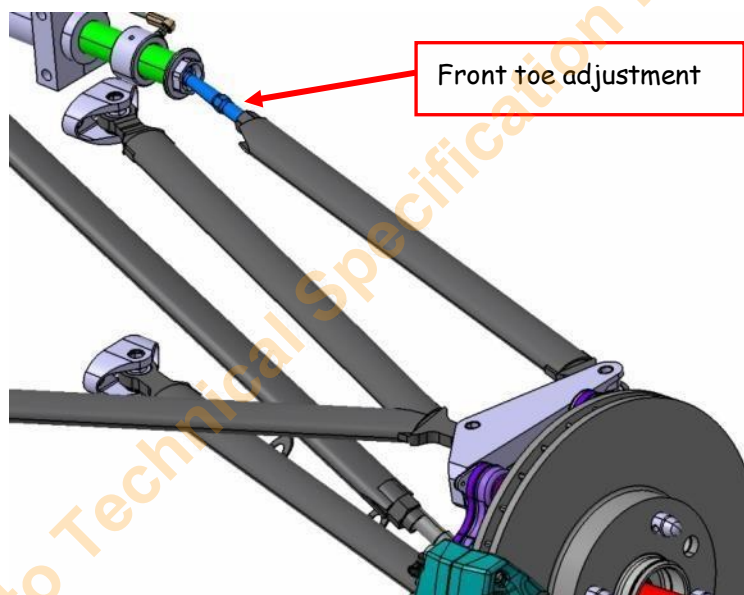
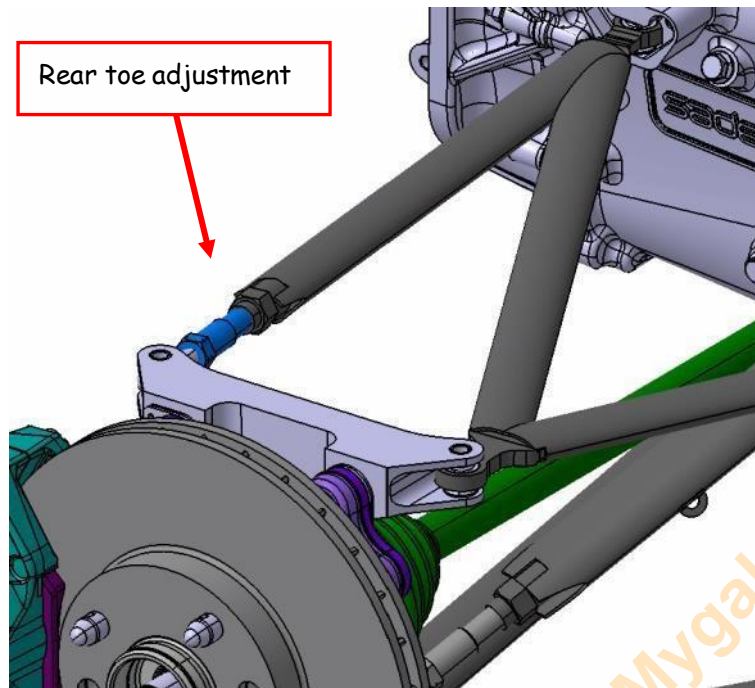
The Toe can be measured with the following formula:

$$\text{Toe} = B/2 - A/2$$

The correlation between degrees and the value $B/2 - A/2$ is :

$B/2 - A/2$ (mm)	Toe (deg)
18	3
12	2
6	1
0	0
-6	-1
-12	-2
-18	-3

In this table, negative toe corresponds to "toe out", positive toe corresponds to "toe In". The Toe angle can be adjusted with the track rod.



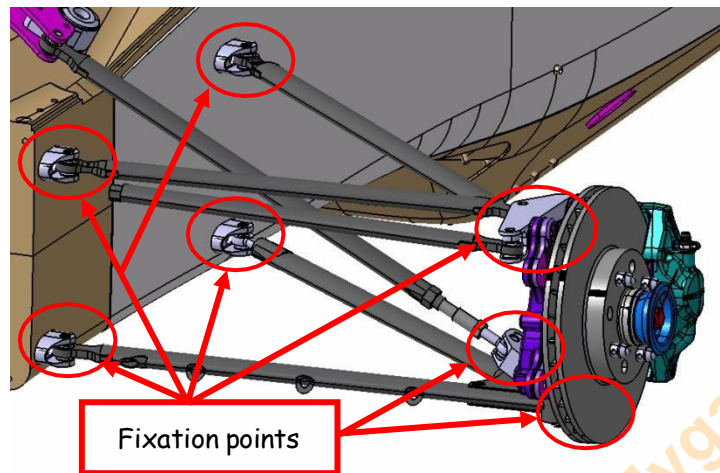
Base starting set up lengths for toe adjustment (ball centre to ball centre)

Front trackrod assembly: 474.9mm for (toe 0° and 0mm)
 ± 1 turn on the bearing = ± 3.84 mm
 ± 1 face turn on the bearing = ± 0.64 mm
 For 1mm toe: 1.6 faces bearing

Rear trackrod assembly: 478.7mm for (toe 0° and 0mm)
 ± 1 turn on the adjuster = ± 4.70 mm
 ± 1 face turn on the adjuster = ± 0.43 mm
 For 1mm toe: 2.4 faces adjuster

3.2.5 SUSPENSION POINTS

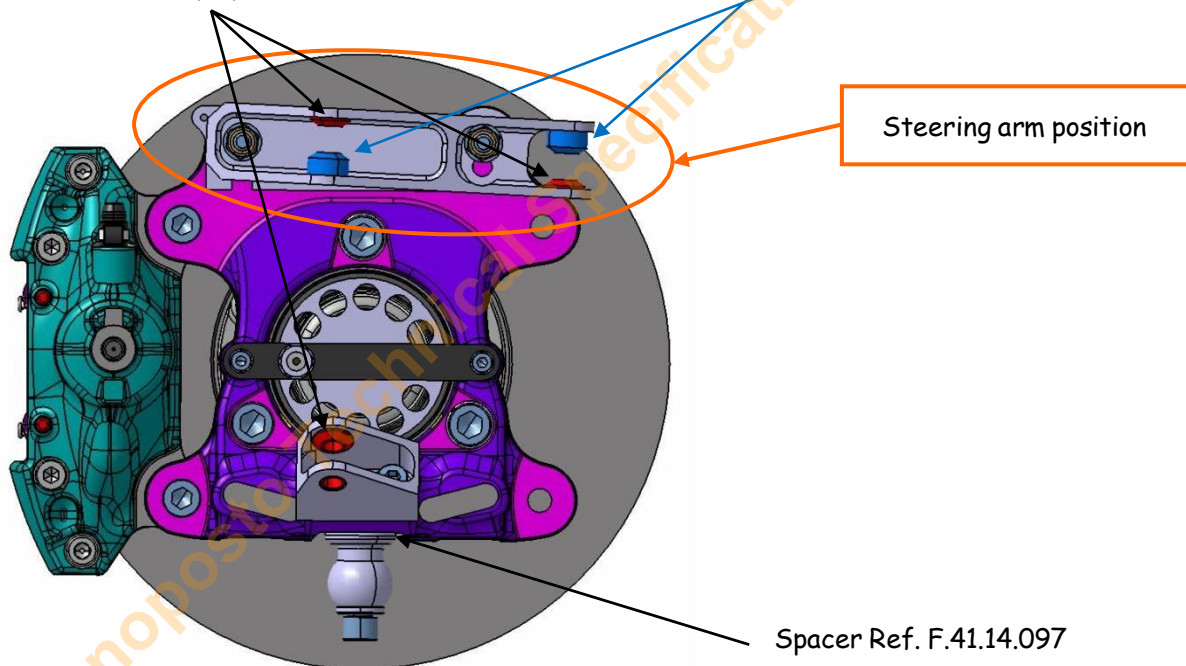
Front suspension points



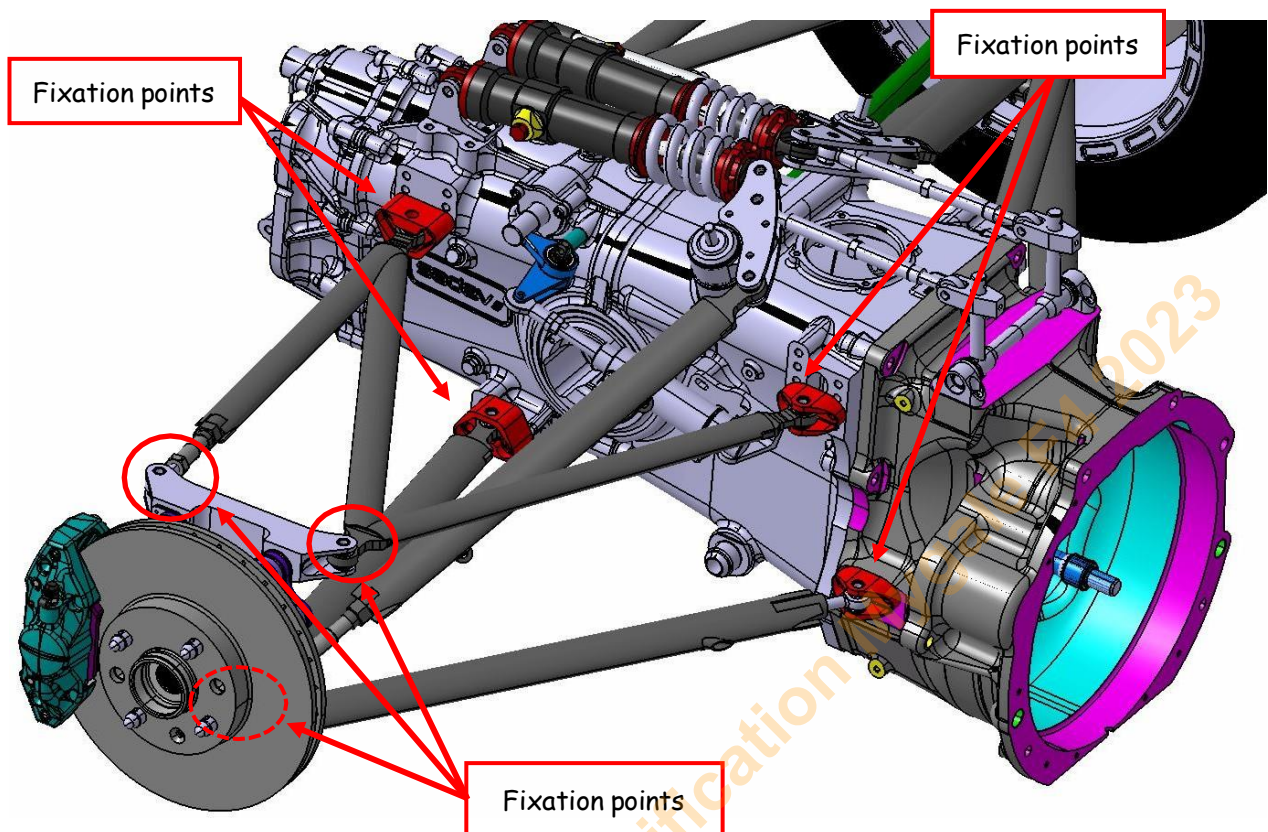
The following picture shows the mandatory position of the front upright points:

Ref. F.41.14.063 (x4)

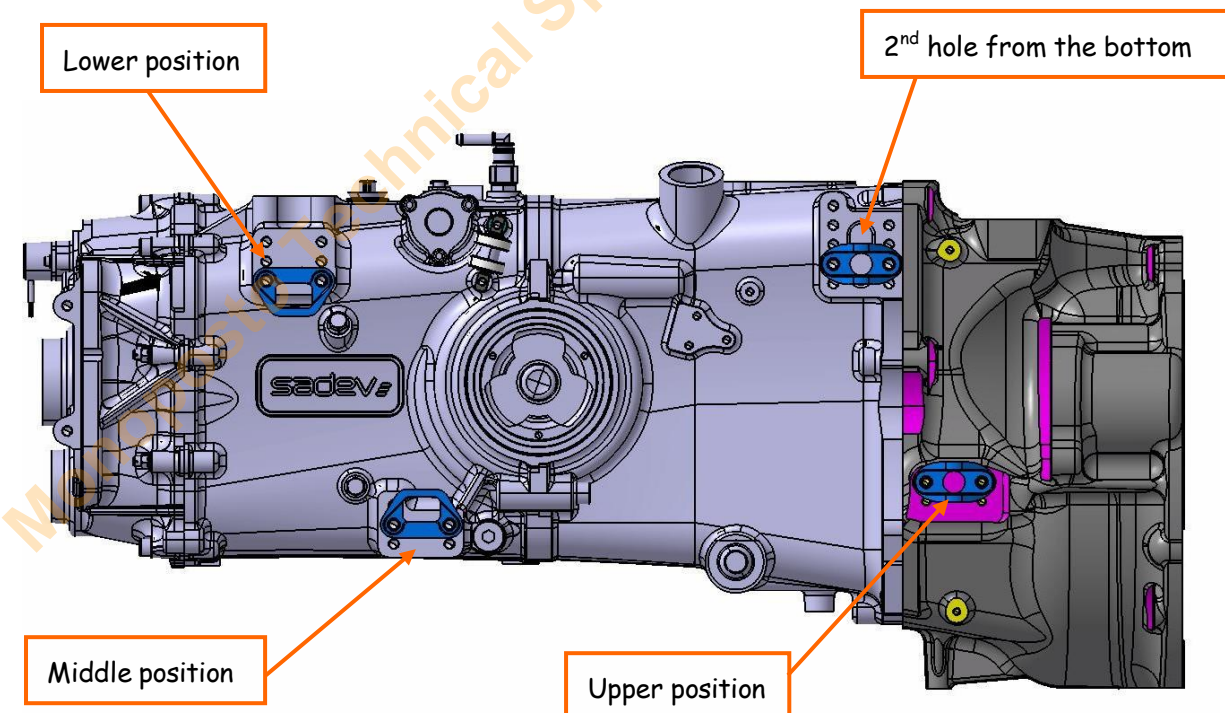
Ref. F.41.14.064 (x2)



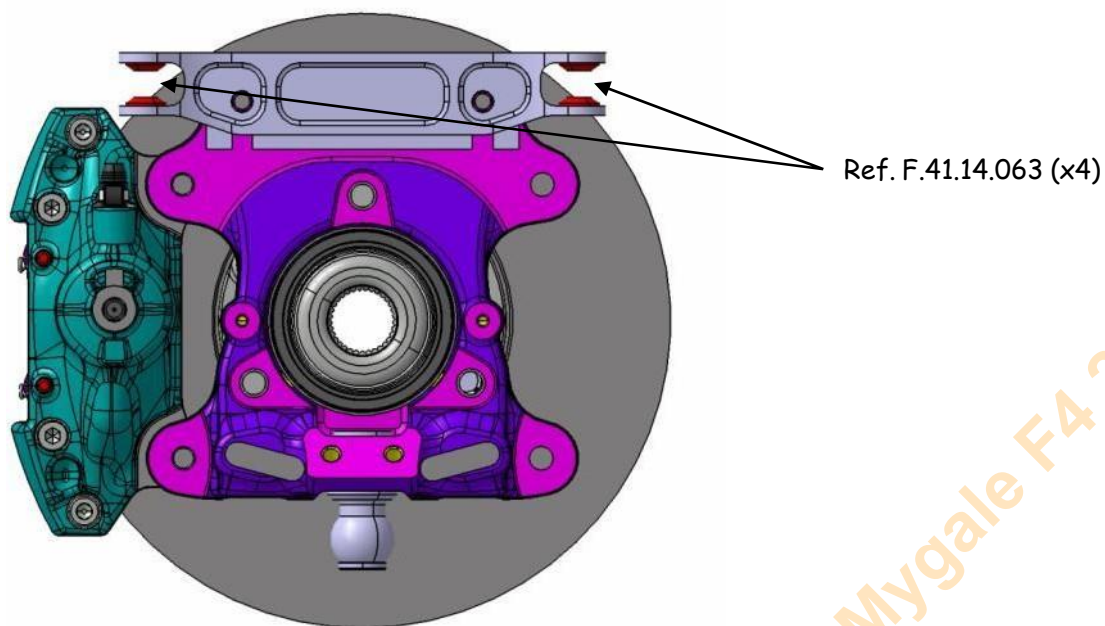
Rear suspension points




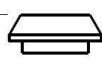

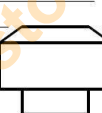
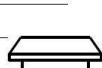
The following picture shows the mandatory position of the rear wishbone brackets:



The following picture shows the mandatory position of the rear upright points:

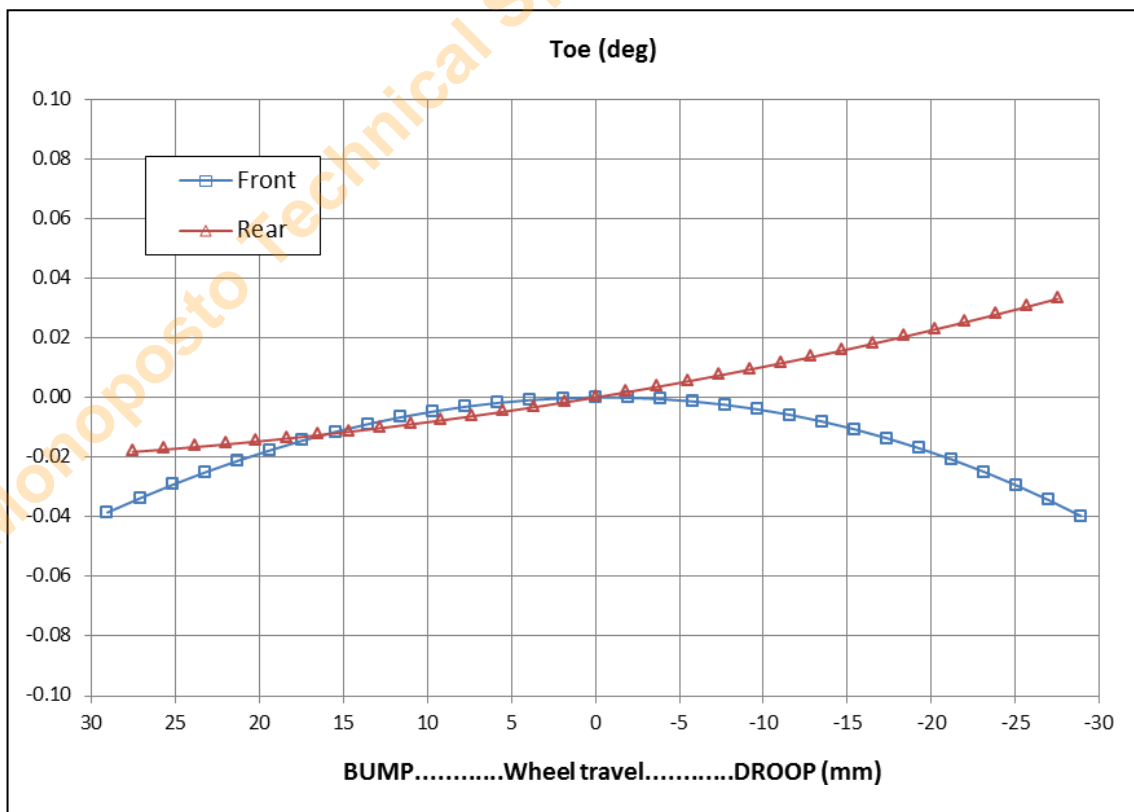
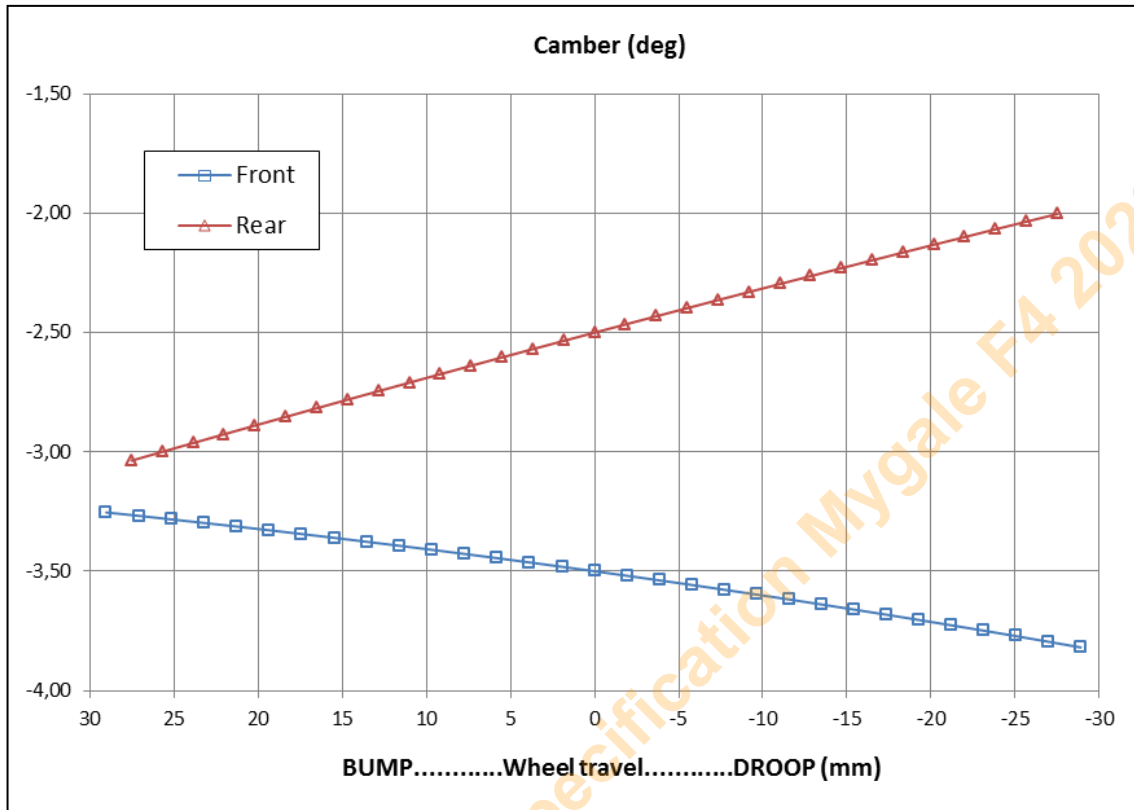


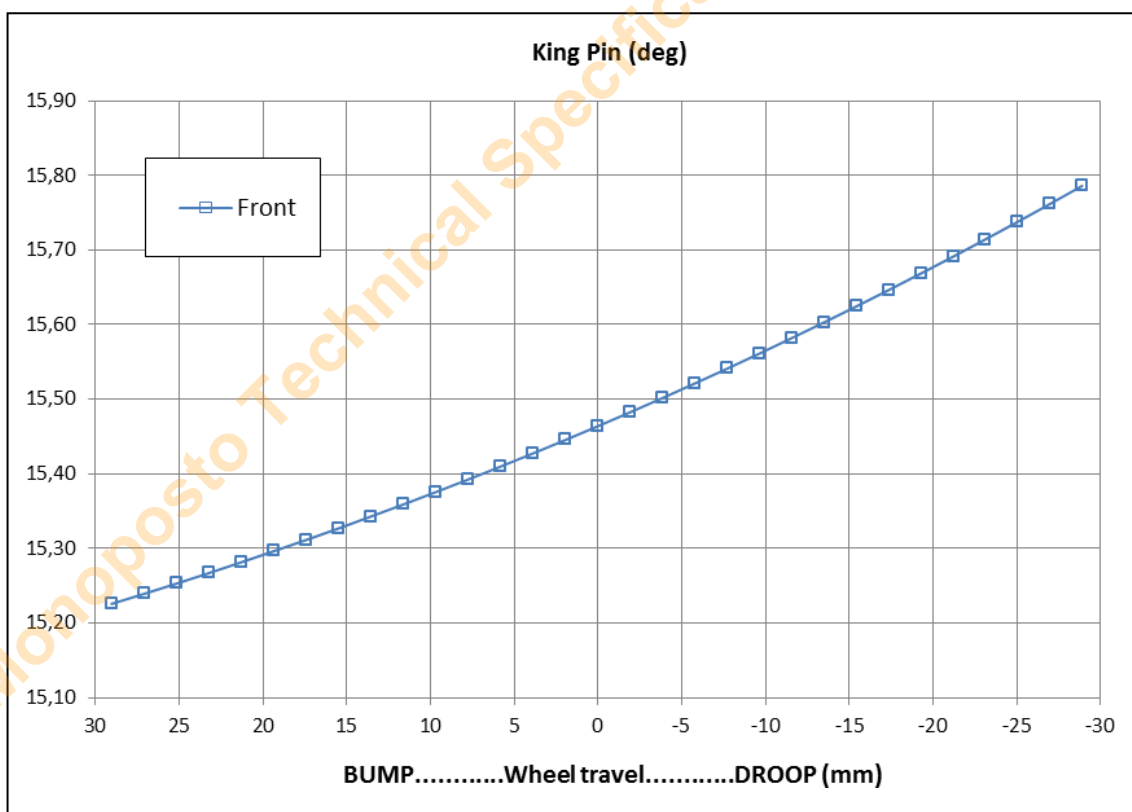
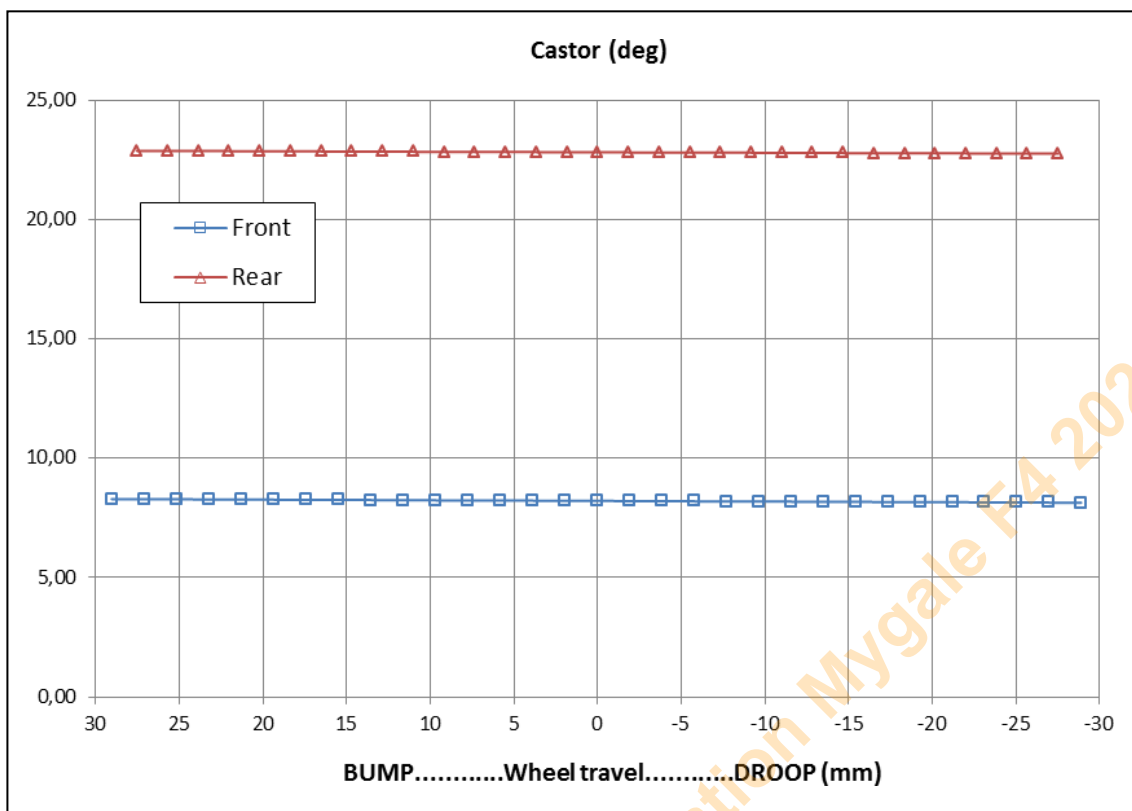
Suspension points spacers' heights

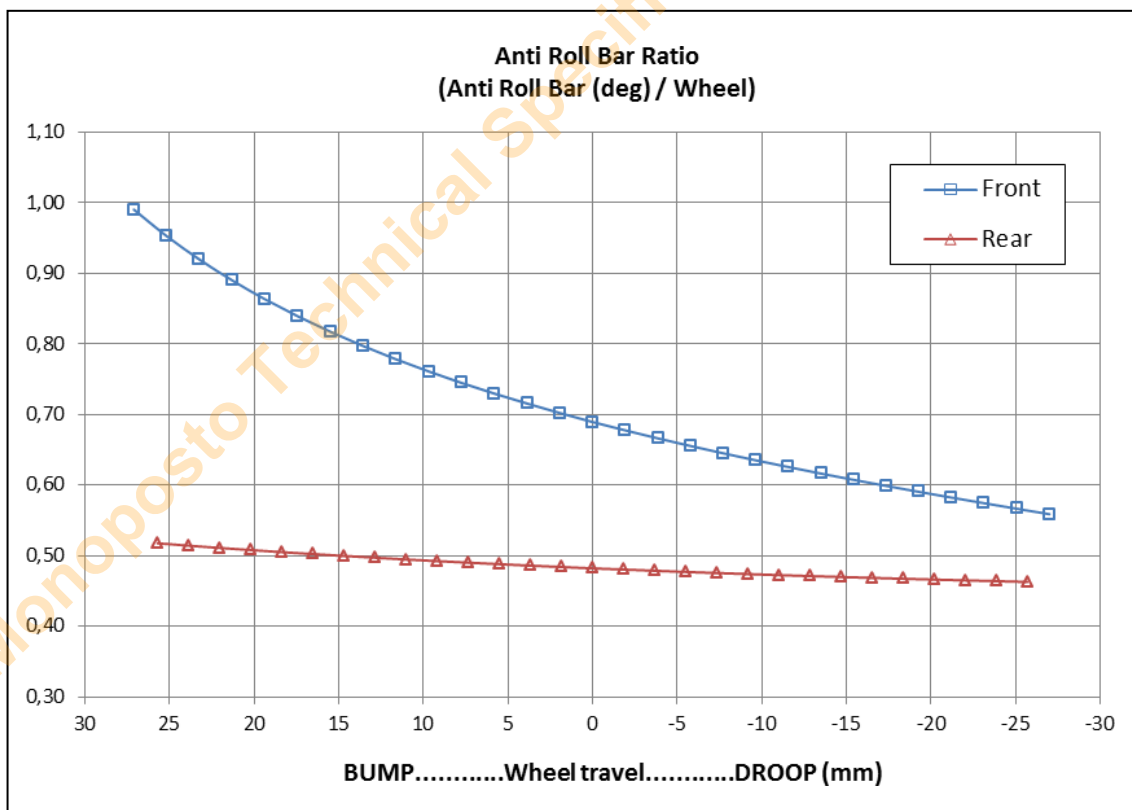
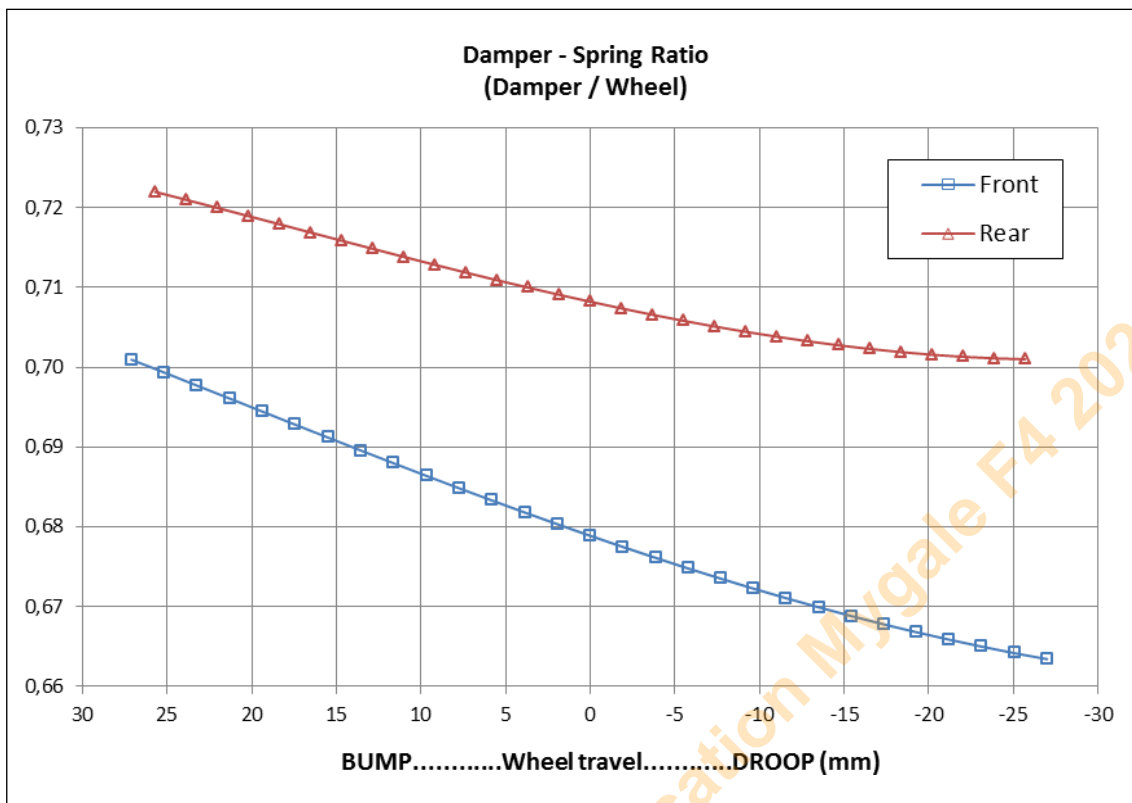
4		F.41.14.012 Rocker spacer
4		F.41.14.013 Rocker spacer, lower front
3.45		F.41.14.063 Spacer, suspension bearing
9.45		F.41.14.064 Spacer, suspension bearing, large
3.5		F.41.14.069 Spacer, damper

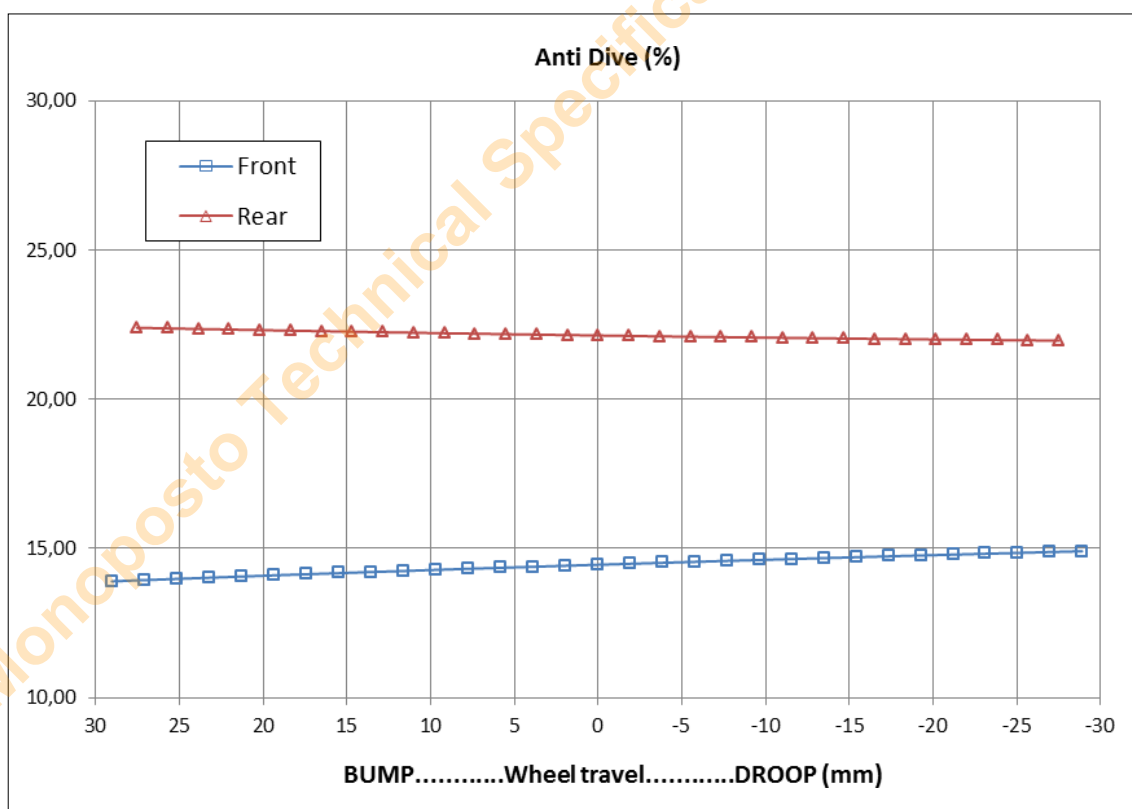
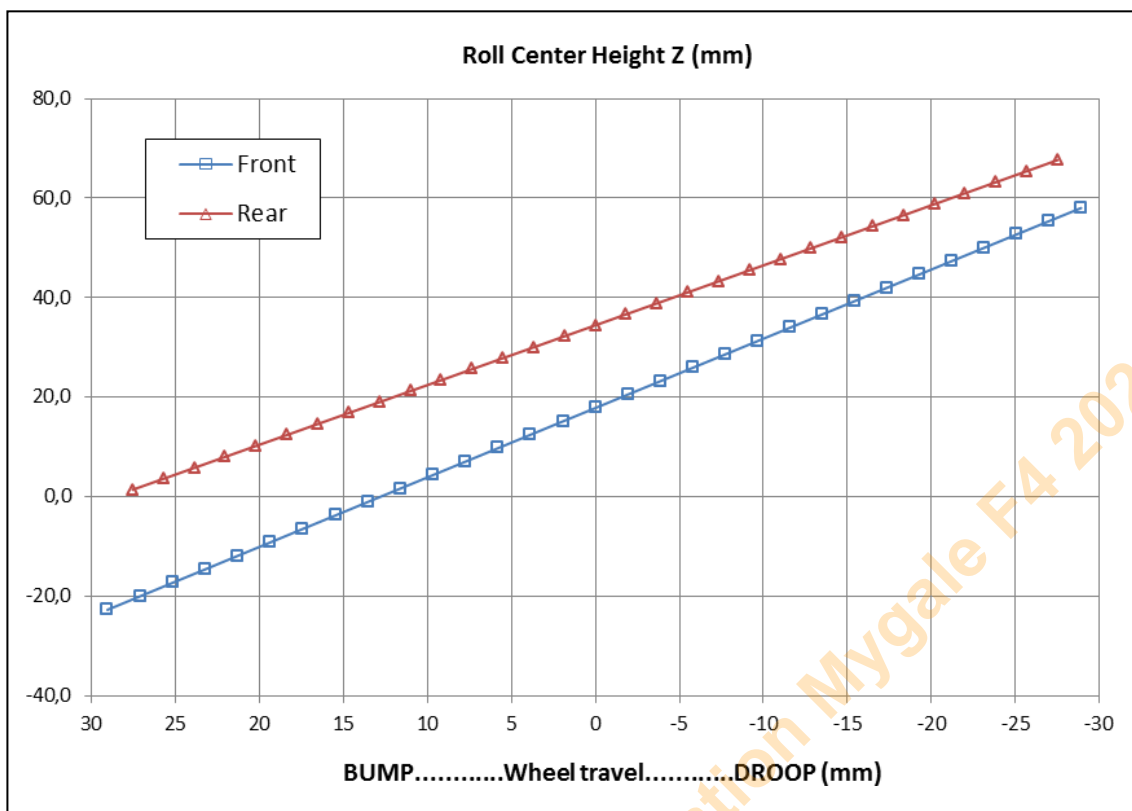
3.3 KINEMATICS - GRAPHICAL REPRESENTATION

All the following graphs represent the kinematics from a ride height of 20/30mm, camber of -3.5°/-2.5° and toe 0°/0° (Front/rear respectively):









Motion ratio

$$\text{Motion ratio (MR)} = \frac{\text{Damper travel}}{\text{Wheel travel}}$$

$$\text{Wheel rate} = \text{Spring rate} * \text{MR}^2$$

In baseline position :

DAMPER FRONT	0.68
ROLL BAR FRONT	0.69
DAMPER REAR	0.71
ROLL BAR REAR	0.48

3.4 SPRINGS

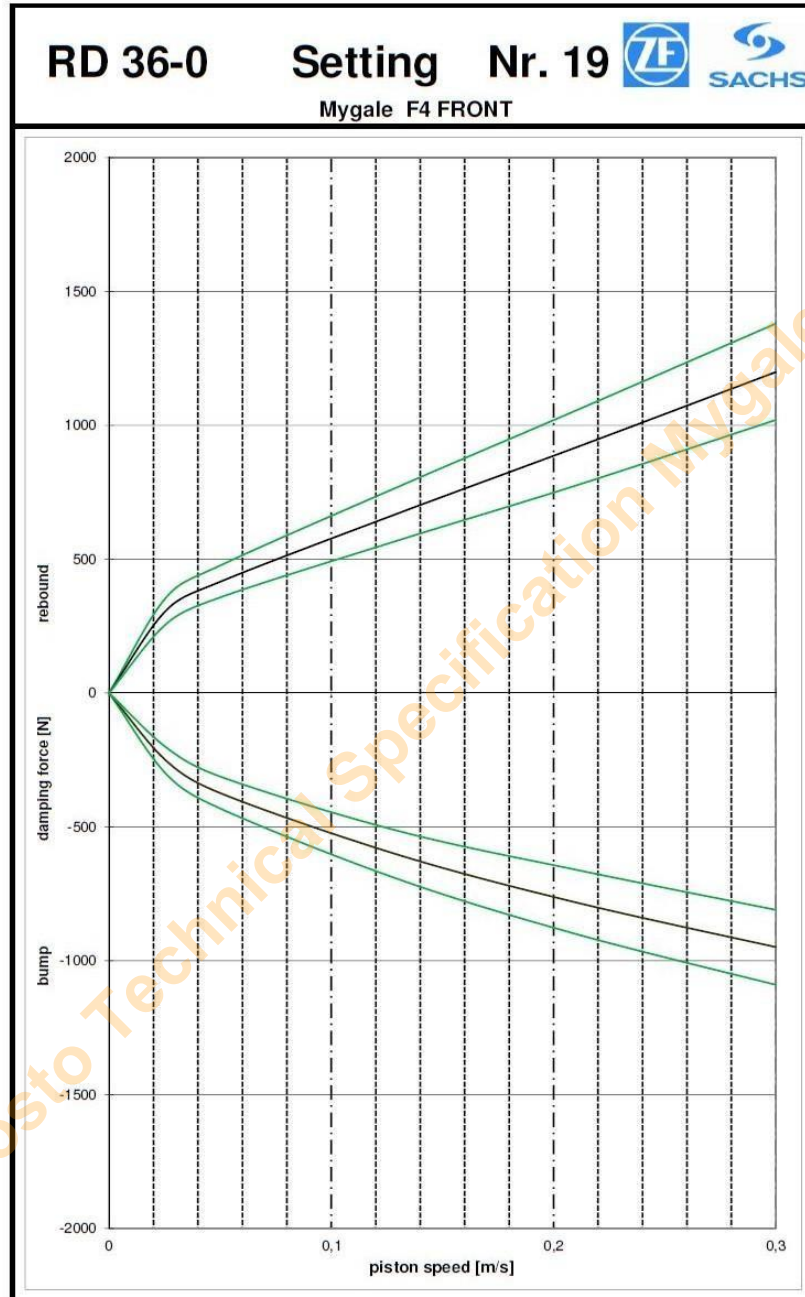
Front and rear suspension springs are common sizes.

Part Number		F.41.14.022	F.41.14.024	F.41.14.026
Stiffness	lbs/inch	600	800	1000
Stiffness	N/mm	106	141	176

3.5 DAMPERS

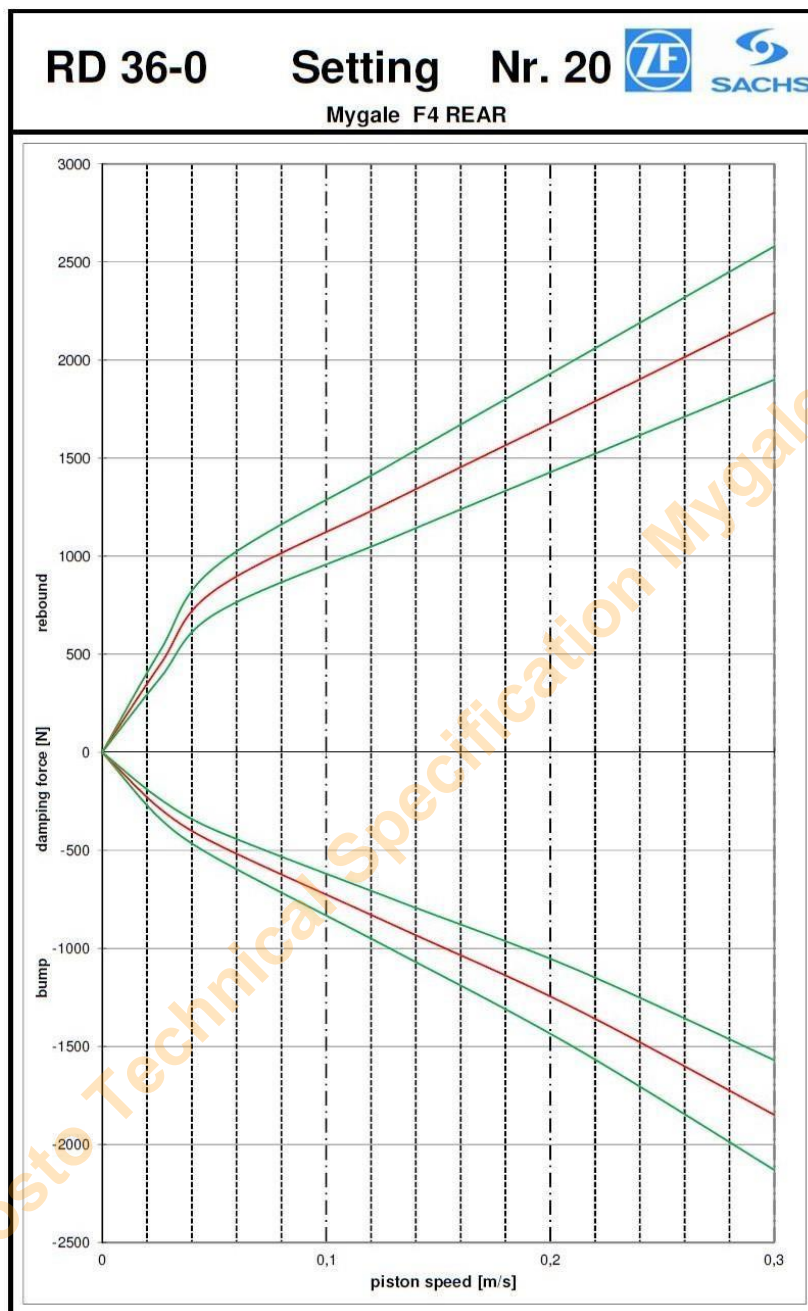
3.5.1 FRONT SUSPENSION DAMPERS

The standard front damper is the Sachs F4 non-adjustable front damper, reference F.41.14.103.



3.5.2 REAR SUSPENSION DAMPERS

The standard rear damper is the Sachs F4 non-adjustable rear damper, reference F.41.15.029.

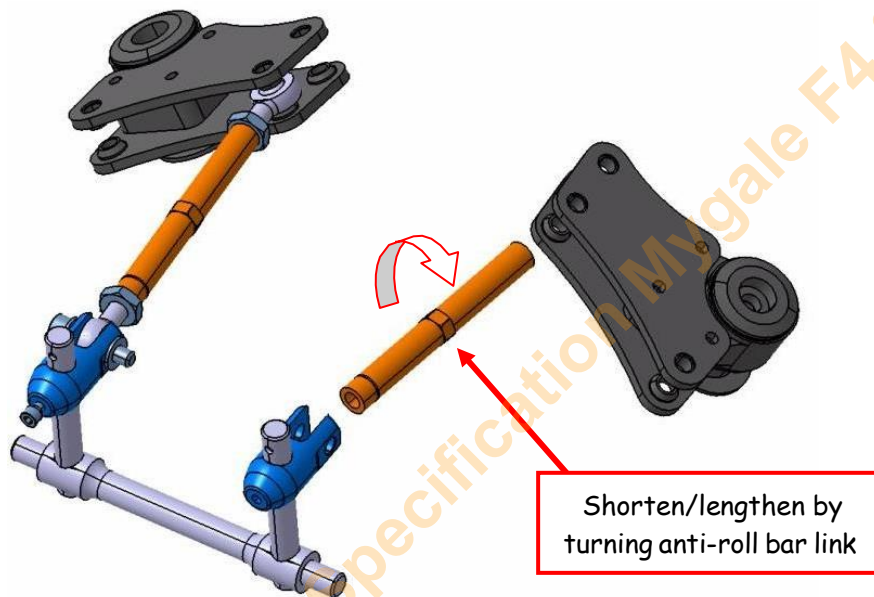


3.6 ANTI-ROLL BARS

The front and rear anti-roll bars each have 5 adjustable positions. To adjust the anti-roll bar the retaining screw of the adjustment clevis must be unscrewed and the clevis moved up or down until the setting position is reached.

3.6.1 ANTI-ROLL BARS ADJUSTMENT

Various stiffness of anti-roll bar are available. To eliminate pre-load in the anti-roll bar, the length of the adjuster assembly connecting the anti-roll bar to the rocker should be shortened or lengthened to suit.



Rear rockers setup recommendation:

To avoid an early and undesired contact on the rocker plates, thus limiting available stroke., it is recommended to set-up the rod end bearing on the rocker side with no less than 13 mm of thread remaining visible as per photo below.



The rod end bearing on the antiroll bar side can be shorten to avoid inclining the bar too much.



Front link adjuster - recommendation:

Following the introduction of the front anti intrusion panel, the link of the front anti roll bar must be adjusted to avoid the contact between the anti-roll bar and the panel.



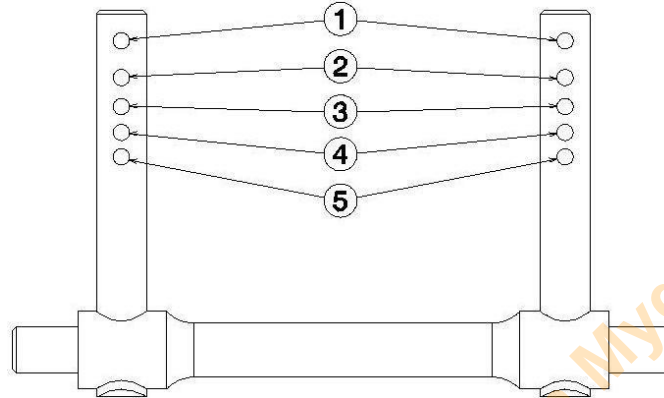
The total length of the adjuster link recommended by Mygale is 192 mm as shown on the picture below:



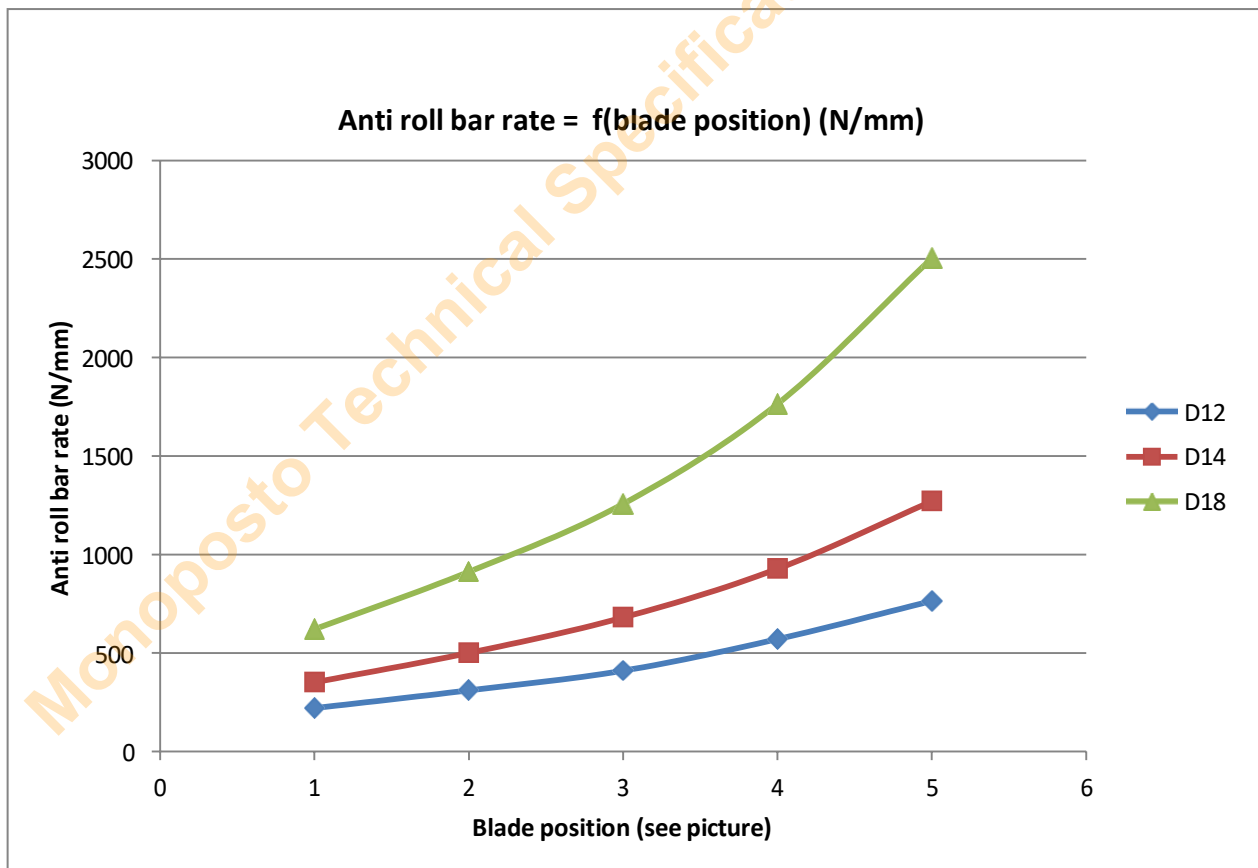
3.6.2 ANTI-ROLL BAR STIFFNESS

ARB currently available
Standart ARB : Ø14
(Optionnals ARB : Ø12 and Ø18)

ARBØ	Position					N/mm
	1	2	3	4	5	
Ø12	221	311	411	571	765*	N/mm
Ø14	352	501	681	928	1271	
Ø18	621	912	1257	1764	2504	



Here the anti-roll bar rate graph from the different anti-roll bar diameters and positions.



* The 5th position with anti-roll bar Ø12 is not recommended due to constant deformation of the bar. Use Ø14 position 3th which is equivalent (see technical bulletin F41-14-BT-04-Anti_Roll_Bars-V1).

3.7 AERO SET UP

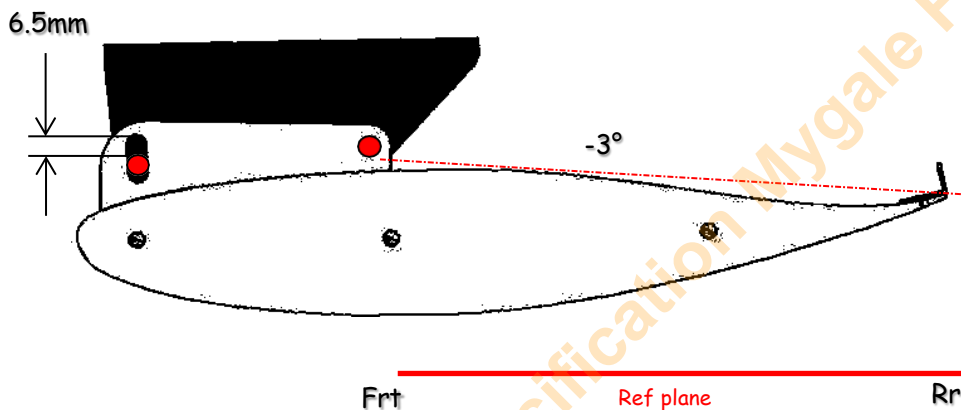
3.7.1 FRONT WING

Position Convention: Angle of the front wing main plate with the reference plane (red line):

	Front wing
Standard position	-3°
Range	-5°/+2°

Front wing set up:

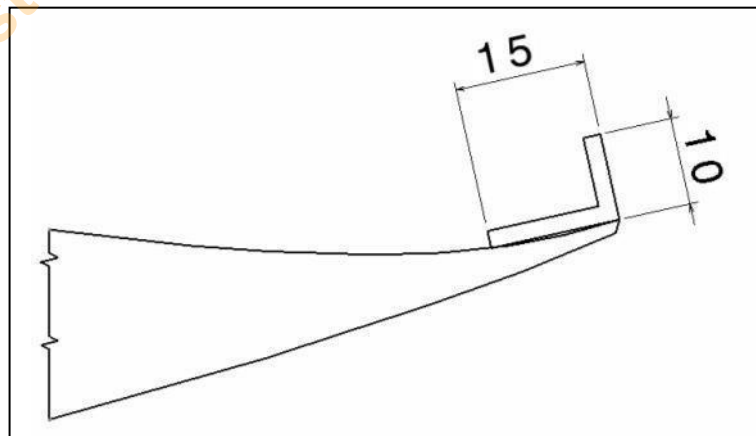
- Set up the front wing main plate at the desired position
- Adjust the front wing end plate to be parallel to the reference plane



Evolution of downforce coefficient (SC_z), drag coefficient (SC_x) and balance with front wing main plane angle:

Delta wing angle	Delta SC_x	Delta SC_z	Delta balance
+1°	-	+0.06	+4.6%

Standard specification includes a gurney on the trailing edge on each lateral extremity of the wing (part number F.41.24.009).



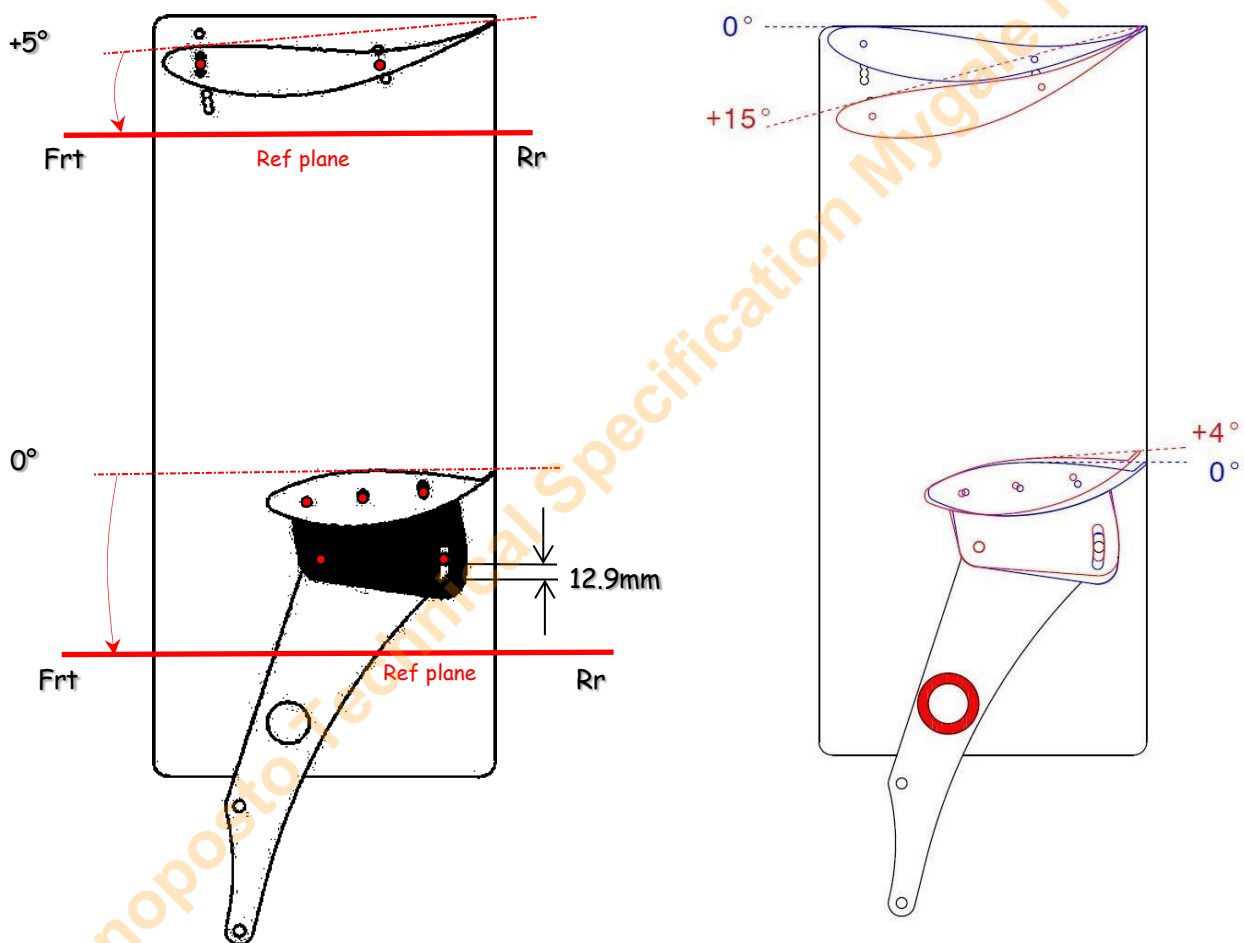
3.8.2 REAR WING

Position Convention: Angle of the wing main plate with the reference plane (red line):

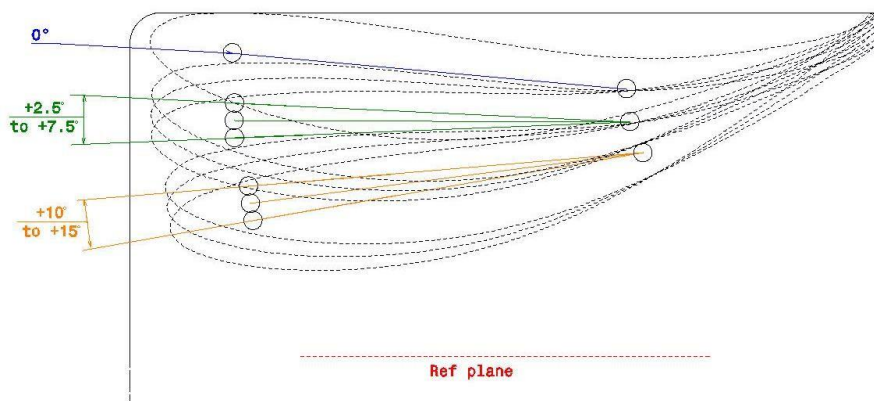
	Upper wing	Lower wing
Standard position	+5°	0°
Range	0°/+15°	0°/+4°

Rear wing set up:

- Set up the lower wing at the desired position
- Adjust the rear wing end plate to be parallel to the reference plane with a +/-1° tolerance
- Set up the upper wing at the desired position by using the adjusting holes



Details on the rear upper wing positions:



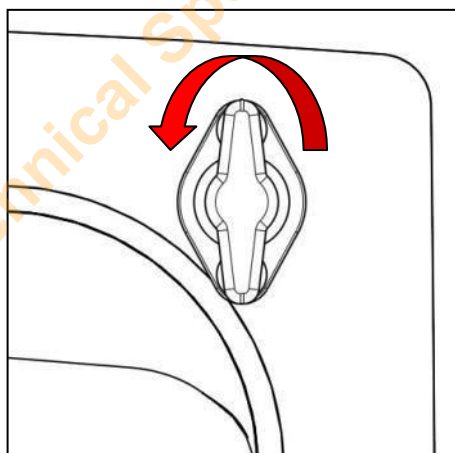
Evolution of downforce coefficient (SC_z), drag coefficient (SC_x) and balance with rear wing angles:

	Delta wing angle	Delta SC_x	Delta SC_z	Delta balance
Upper wing	+2.5°	+0.006	+0.034	-2.5%
Lower wing	+1°	+0.001	+0.011	-0.8%

3.8 BRAKE BIAS

Range: 17.5 turns

Adjustment: more front brake = turn left



A spacer is available as optional part for the brake bias control:

- F.41.11.057: Length 100mm

Teams are allowed to adjust its length to optimize driver comfort.

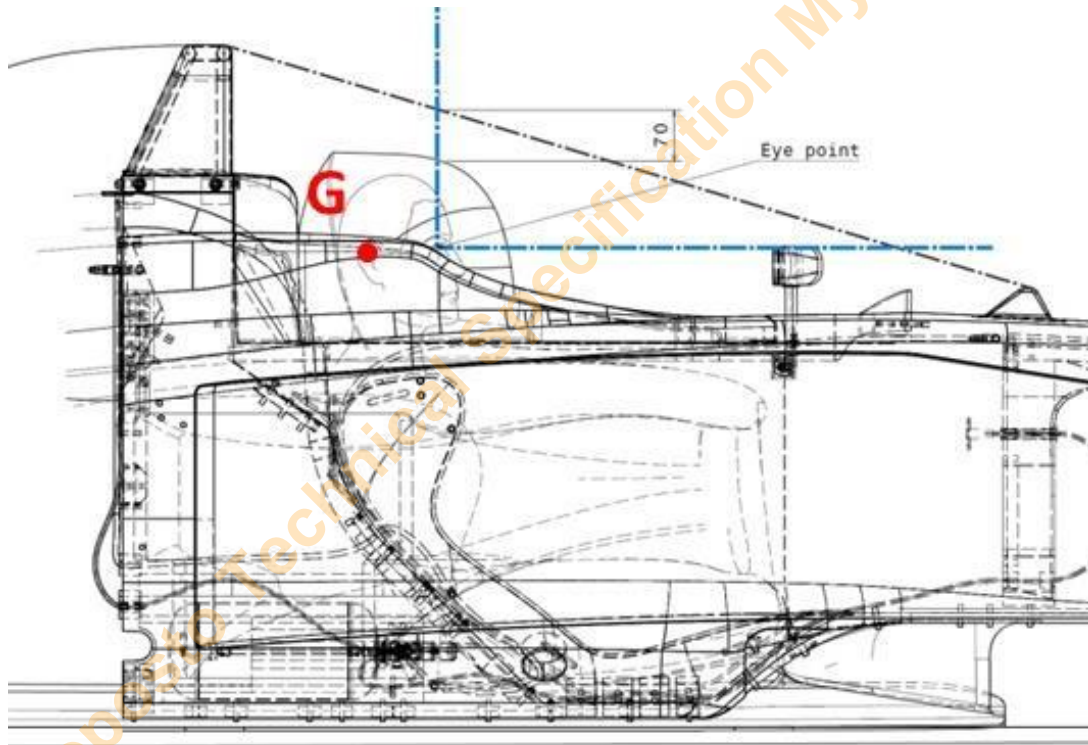
3.9 PEDAL BOX ADJUSTMENT

3.9.1 DRIVER POSITION

Before adjust the pedal box, the teams must be sure that the center of gravity of the driver attends the Article 15.3.6 of the F4 Technical Regulation from FIA.

In order to achieve the best position, Mygale advises to follow the steps below:

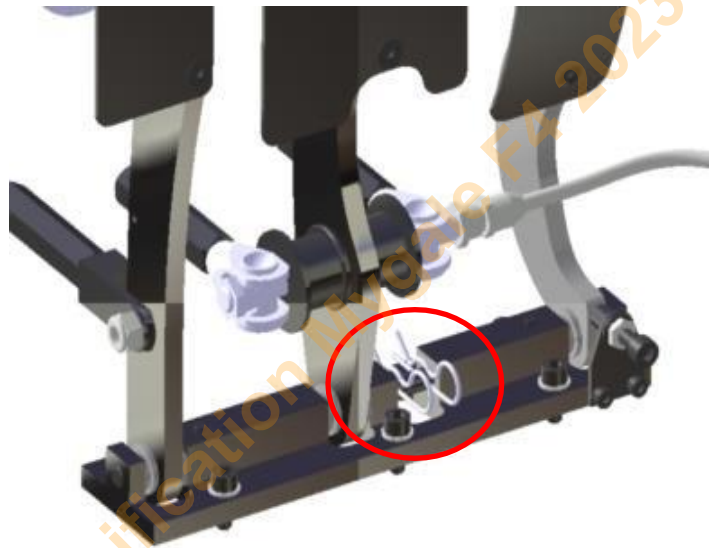
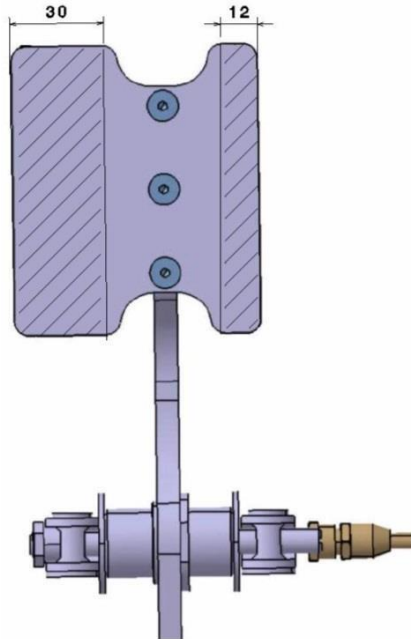
- 1) Install the driver in the cockpit in a position which the eye is visible from the side and the CoG (point G in picture below - is "the intersection of a vertical line passing through the centre of his ear and a horizontal line passing through the centre of his eye" according with FIA.) of the driver's head is below the survival cell. The 70 mm of gap from the roll hoop line must be respected too.
- 2) After adjust the driver's position, the team can adjust the pedal box and steering wheel, as wheel as other devices that needs to be close to the driver.



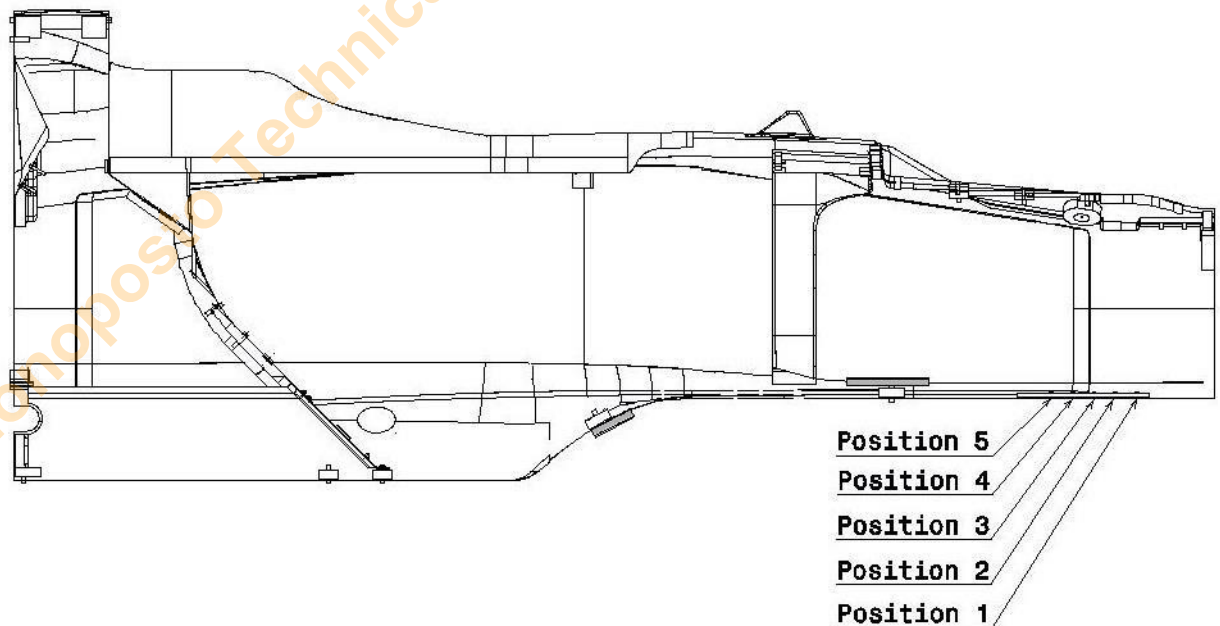
3.9.2 PEDAL BOX POSITION

According to the driver feeling, the width of the brake pedal can be adjusted by the team. It is possible to cut the shaded area below:

To prevent the translation of the pedal box's shaft due to vibration and support's wear, Mygale is making available a new version of this part (Pedal box shaft - F.41.11.002 and 2 Beta pin - AGO02.02.0001). The right picture below shows the new assembly.

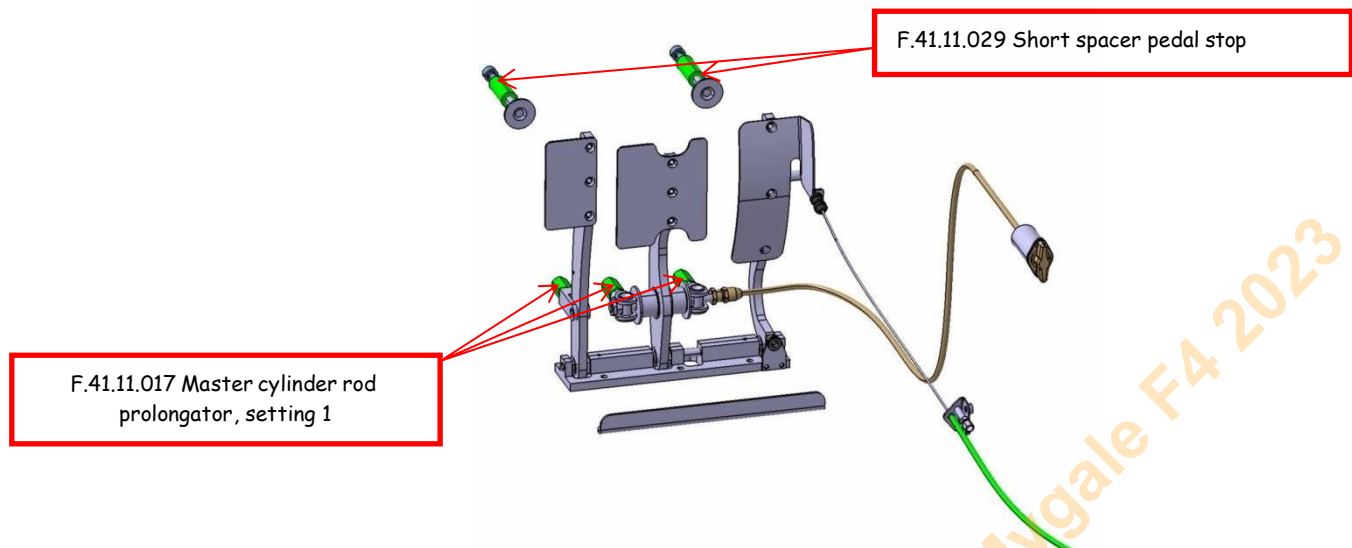


For ergonomic reasons, 5 Pedal Box's positions are available:

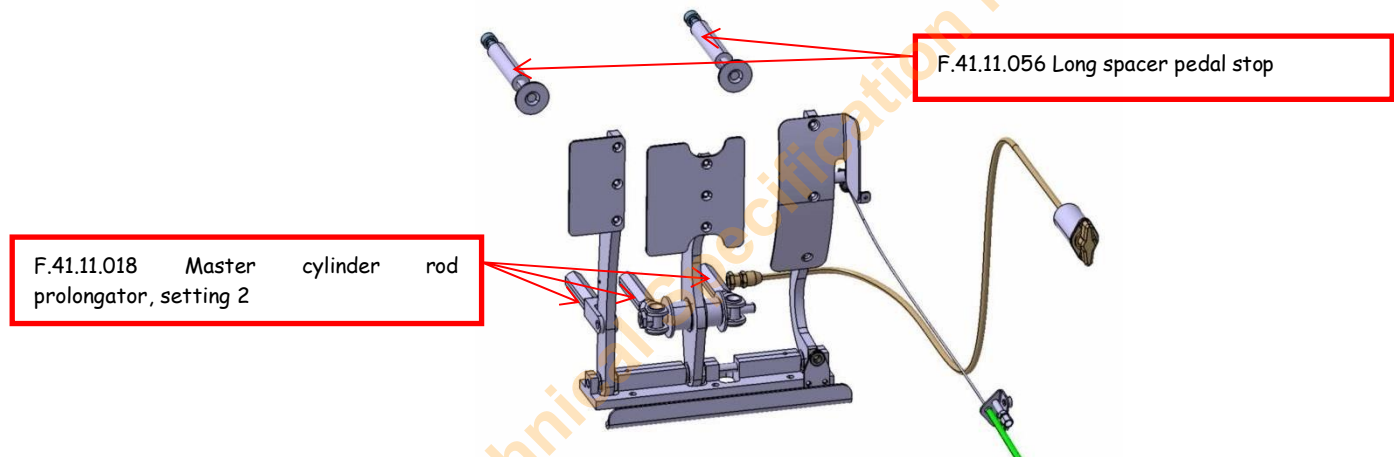


Each position has an equipment which is available in option.

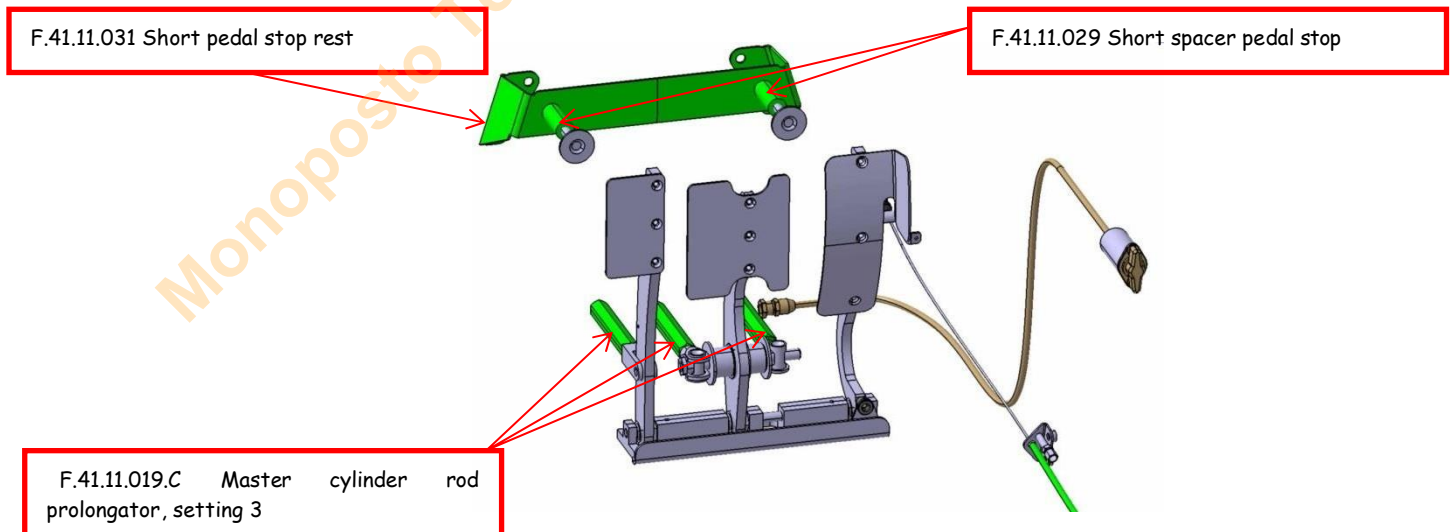
Position 1:



Position 2:



Position 3:



Position 4:

F.41.11.031 Short pedal stop rest

F.41.11.056 Long spacer pedal stop

F.41.11.020 Master cylinder rod
prolongator setting 4

Position 5:

F.41.11.032 Long pedal stop rest

F.41.11.056 Long spacer pedal stop

F.41.11.021 Master cylinder rod
prolongator, setting 5

The throttle cable must be cut at the right length once the pedal box is correctly positioned for the driver.

Long pedal stop rest reinforcement:

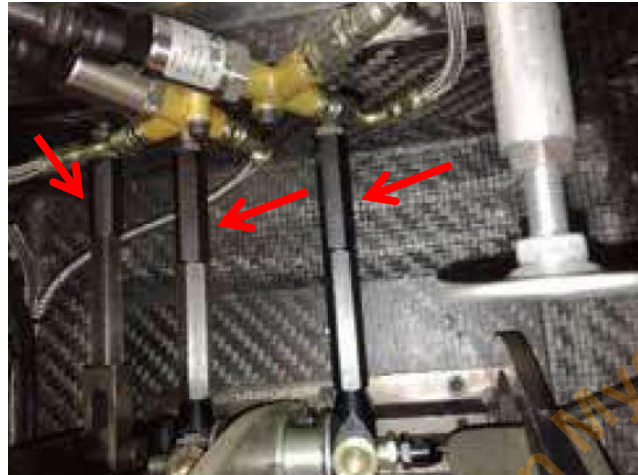
Welded reinforcements in the corners done by teams to stiffen the long pedal stop rest are allowed, in areas illustrated in picture. Note now that new parts already include reinforcements.



With the introduction of the Front anti-intrusion panel of the FIA safety kit 2018, the following prolongators must be assembled on the brake pedal and clutch pedal to compensate the length of the panel:

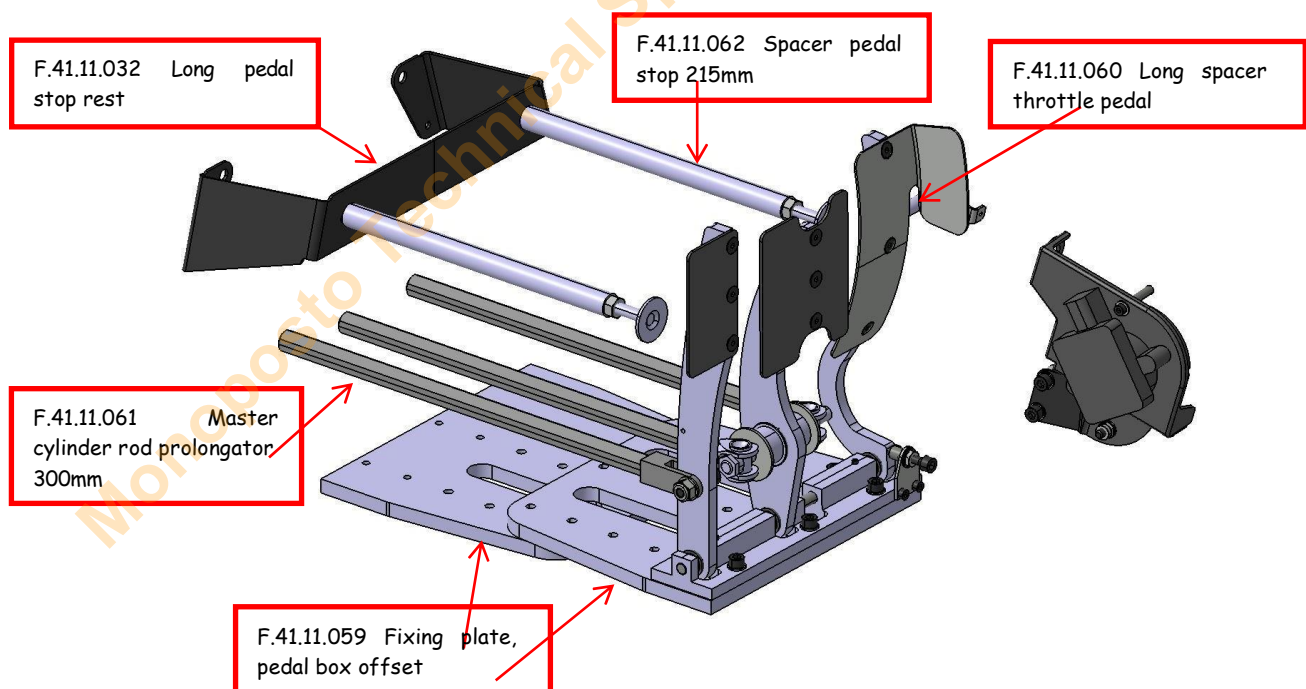
2 prolongators for brake pedal reference F.41.11.07

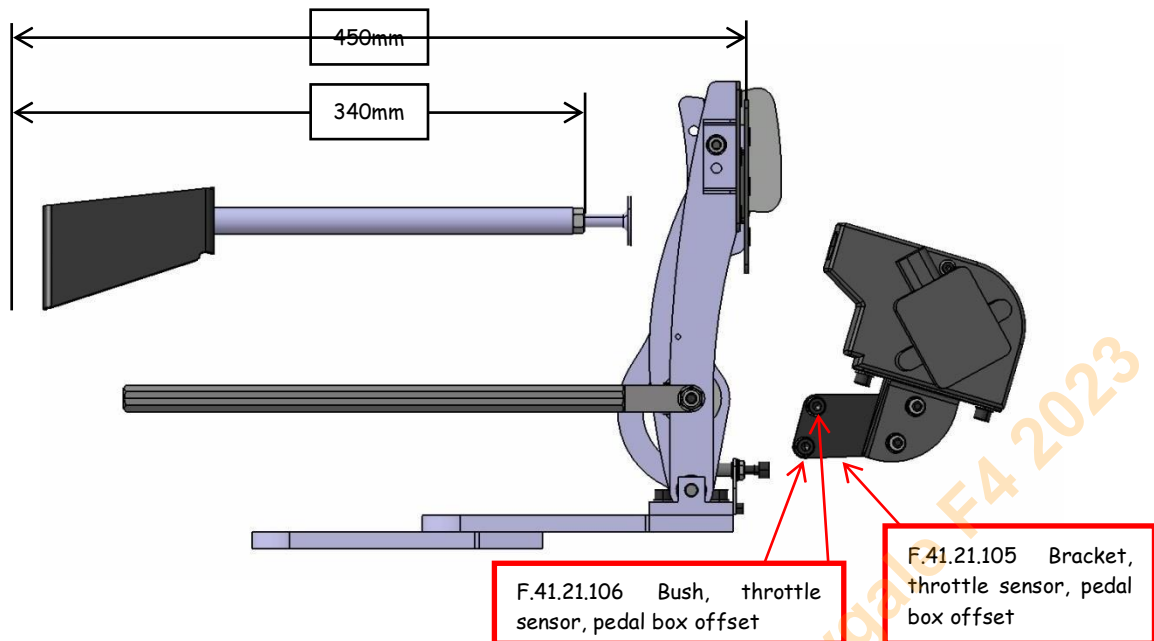
1 prolongator for clutch pedal reference F.41.11.07



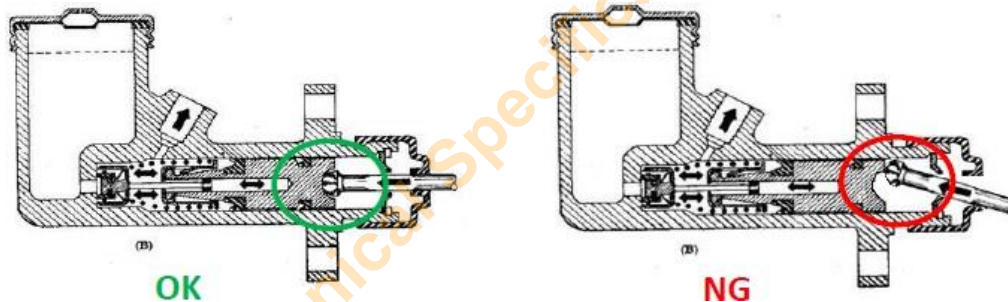
3.9.3 SMALL DRIVER OPTION

For small drivers, it is also possible to offset the pedal box more rearward, with a maximum of 450mm between brake pedal plate and front end of the monocoque. The following picture shows the maximum rearward position of the pedal box:





Mygale advises the teams to adjust the driver position with Mygale parts. The use of non-original parts can result in problems due to bad fitting as highlighted in the Technical Bulletin F41-17-BT-04- Master Cylinder_brake_failure-V1.

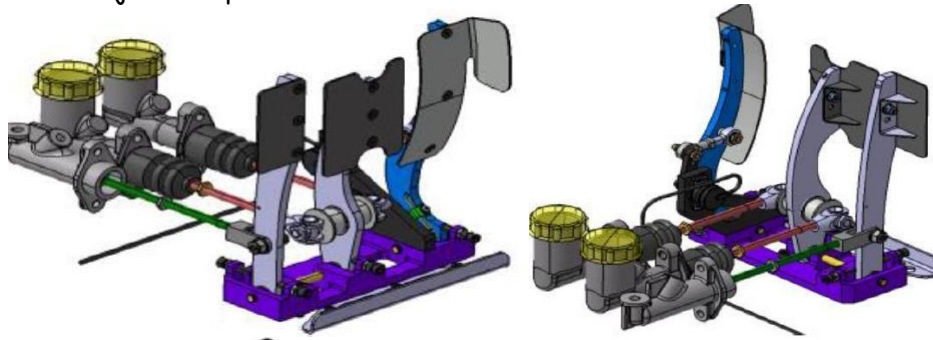


Following the Technical Bulletin F41-11-BT-07, Mygale is making available an adjustable pedal box for the customers interested to change the pedal positions in a faster way.

This new product is intended to be used exclusively for test days or race schools, for example when the teams must test different drivers and save time during the pedal box adjustment (modification of pedal box position under 15 minutes).

New product:

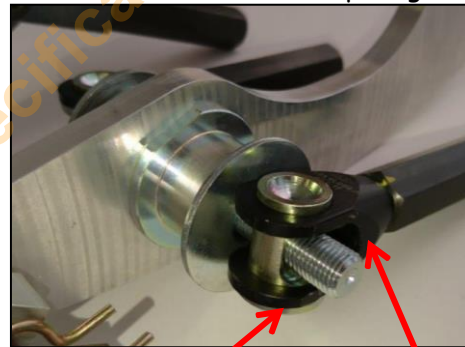
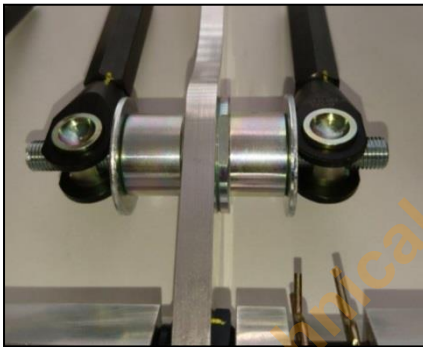
PN: F.41.11.077 - Kit adjustable pedal box



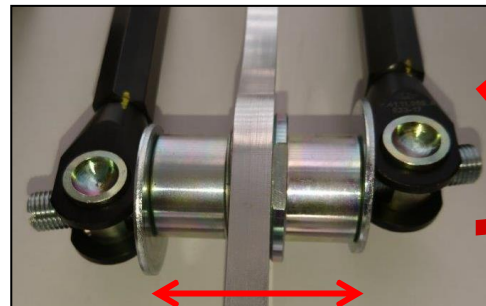
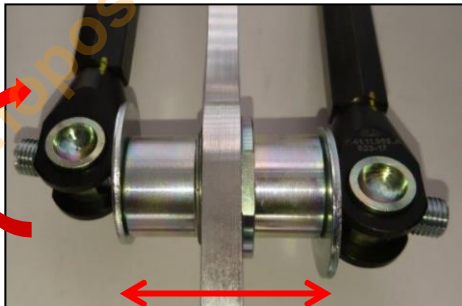
- New throttle sensor (attached to throttle pedal).
- New master cylinder rod sets.
- New pedal support bracket with pedal stops.
- New calibration for Renault engine available.
- Calibration for Ford and Geely engines available after request.

3.9.4 BRAKE BIAS MOUNTING

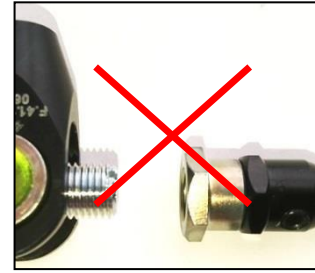
The 2 bushes of the brake bias clevises must be mounted with the head downward, to avoid that the clevis touch the thread of the axle and being damaged, and to ensure a full setup range:



Furthermore, ensure that the distance between the 2 clevis is enough big to allow the complete rotation range of the bearing axle and not too big to keep the 2 washers in contact with the sleeve nut and parallel to the car center line:



To ensure a full setup range of balance, the nut must be mounted in the position as on following picture:



Following the recent issues regarding the brake bias in the British Championship, Mygale prepared the Technical bulletin F41-11-BT-06 with the following information to prevent future failures with the brake bias:

According with our supplier the recent issues happened due to fatigue of the component + excessive wear of the thread.

- For the 1st problem (fatigue), we strongly advise our customers to control the mileage of safety components and do not use these components after achieve the recommendation in our Mileage Table. The brake bias must be changed after 15.000 km.

The supplier insists that the brake bias has to be changed in case of frontal crash, otherwise safety is not guaranteed.

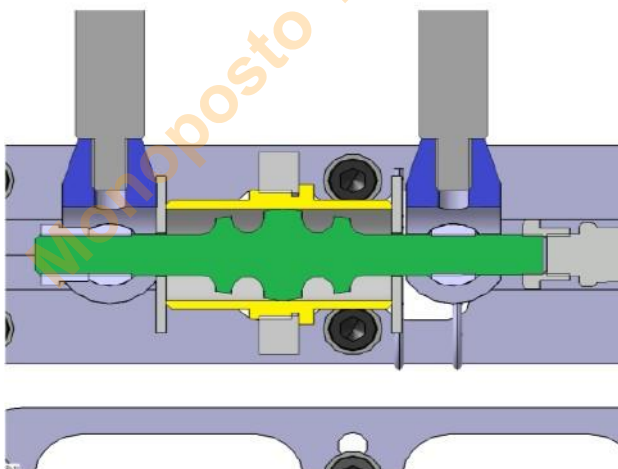
In the picture below (from Mileage Table) it's possible to see the Bias Bar in yellow:

PEDAL BOX AND CABLES				
PEDALS	F.41.11.055/F.41.11.049/F.41.11.050	30000		
PEDAL BOX SHAFT	F.41.11.002	2000	Check angular variation of the pedal	
SLEEVE NUT PEDAL BOX	F.41.11.007	2000	Check angular variation of the pedal	
PEDAL STOP	F.41.11.054	10000	Check after 5000km	
BRAKE BIAS	F.41.11.009/F.41.11.010/F.41.11.042	15000	Check the shaft is not twisted - Mandatory to change if damaged	Change after front crash
BOLTS	See Parts catalogue	5000		
ACCELERATOR CABLE	ACA.01.06.06.2500	10000		

- For the 2nd problem (excessive wear in the thread), Mygale would like to reinforce that the bleeding in the brakes must be done by one side at a time.

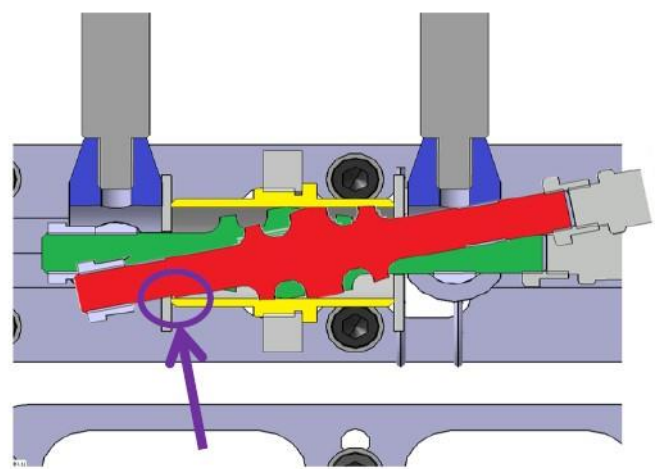
If the team perform the bleeding by axle, the brake bias bar can move to its extreme position like the brake bias in red (picture below), and the force applied in the pedal can damage the thread.

Bleeding by side:



OK

Bleeding by axle

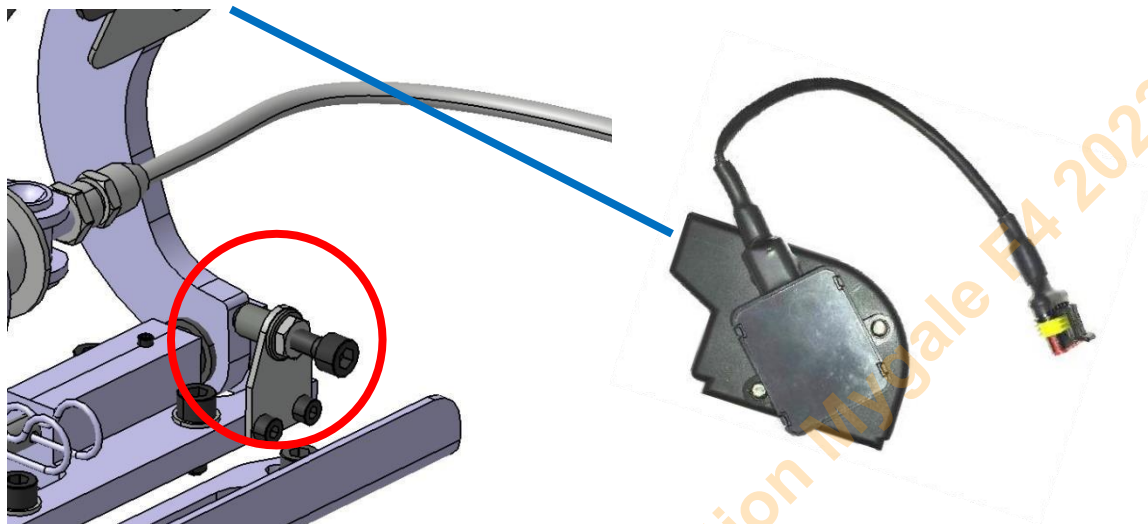


NG

3.9.5 THROTTLE PEDAL STOPPER

When adjusting the throttle cable, ensure that the mechanical throttle pedal stopper is always reached before the maximum rotational position of the throttle sensor.

The throttle sensor is not supposed to work as a stopper, it can so be damaged and also its bracket.



3.10 SET-UP SHEET BASELINE PROPOSAL

SET-UP SHEET M14-F4

Car
Date
Circuit
Run

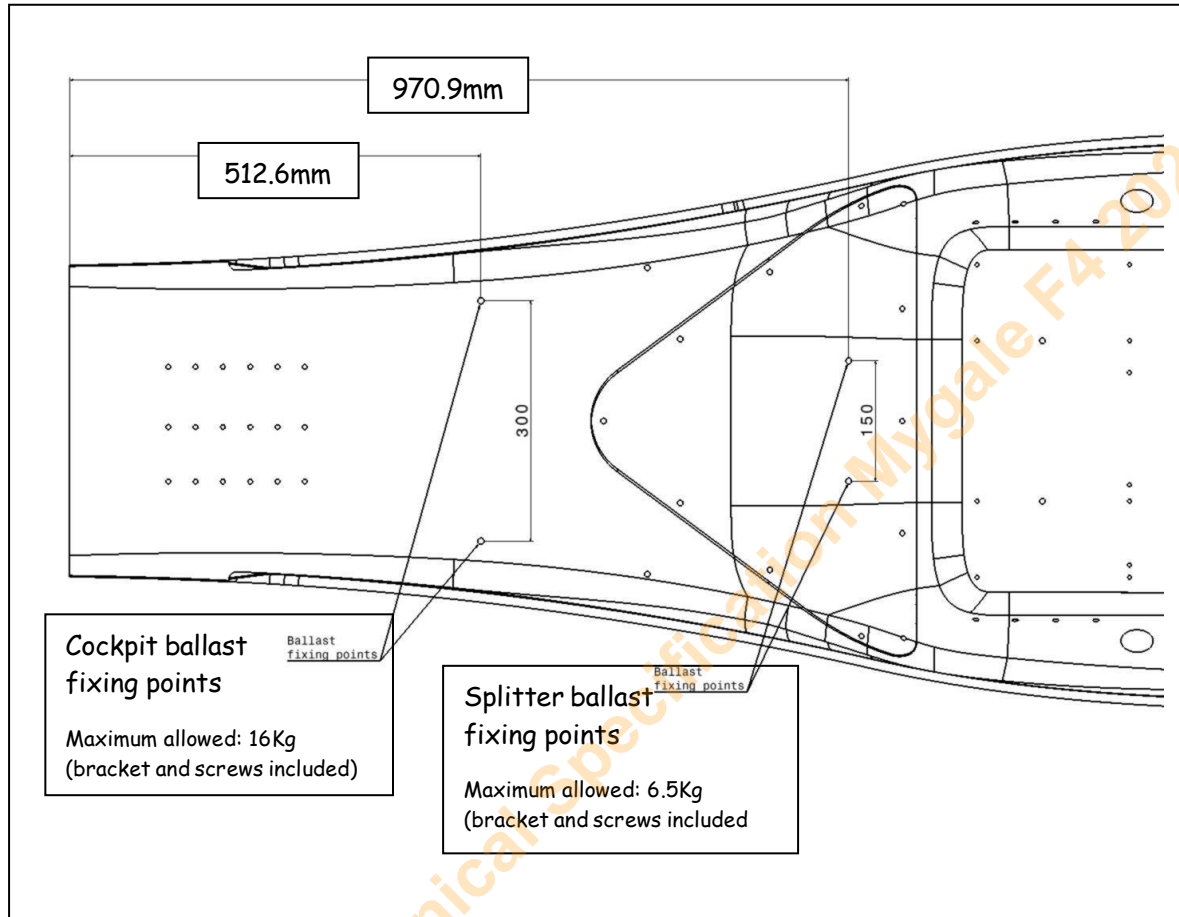
		FRONT		REAR	
		LH	RH	LH	RH
Weight					
Included / not included					
Per wheel	Kg				
Total	Kg				
Weight distribution	%				
Ride height	mm	19		30	
Geometry					
Camber	°	3,3	3	2.2	2.2
Camber shims	mm				
Toe per wheel (in+/out-)	mm	1	1	1	1
Castor	°	8.2	8.2	-22.8	-22.8
Wheelbase	mm	2742			
Track	mm	1725		1715	
Suspensions					
Pushrod position					
Dampers					
Type		Sachs non adjustable		Sachs non adjustable	
Bump	pos				
Rebound	pos				
Springs					
Stiffness	lbs/in	800	800	800	800
Preload	mm	4.7	4.7	0	0
Anti-roll bar					
Diameter	mm	14		14	
Blade set-up	mm	3	3	3	3
Tyres					
Type					
Pressure - cold	bar				
Pressure - hot	bar				
Brakes					
Master cylinder		0,625		0,75	
Balance	%				
Pads		DS PERFO	DS PERFO	DS PERFO	DS PERFO
Wings					
Angle	°	-3		5 (top) / 0 (beam)	
Gurney		10x345			
Clutch					
Master cylinder		0.75			
Gearbox					
Crownwheel & pinion		10/31			
1st		14/37			
2nd		18/35			
3rd		18/28			
4th		21/27			
5th		20/22			
6th		27/26			
Cooling					
Radiator blanking	%				

Comments

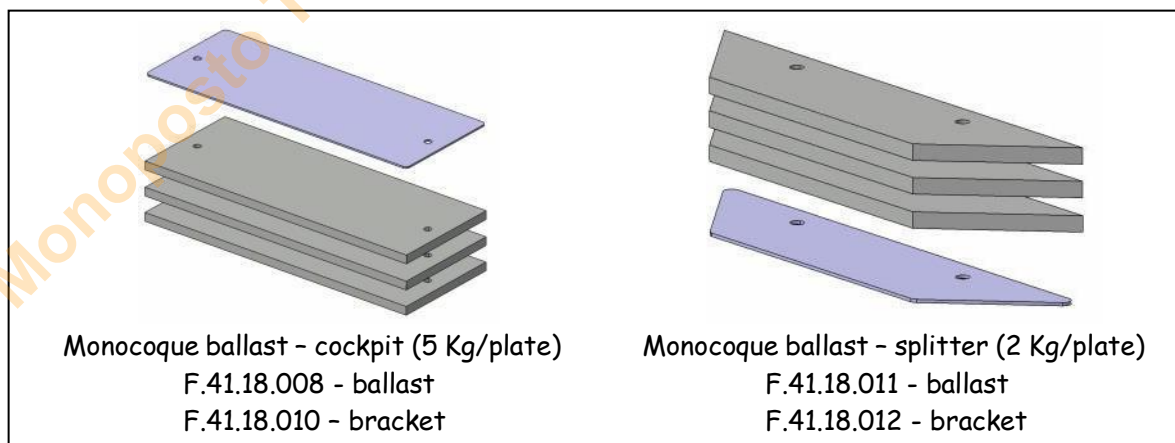
3.11 BALLAST

Ballast is used to reach the minimum allowable weight

Two ballast fixing locations are provided: inside the splitter and in the cockpit under driver's legs (bottom view of monocoque).



Standard ballasts:



3.12 PADDLE SHIFT

3.12.1 PADDLE SHIFT USER MANUAL

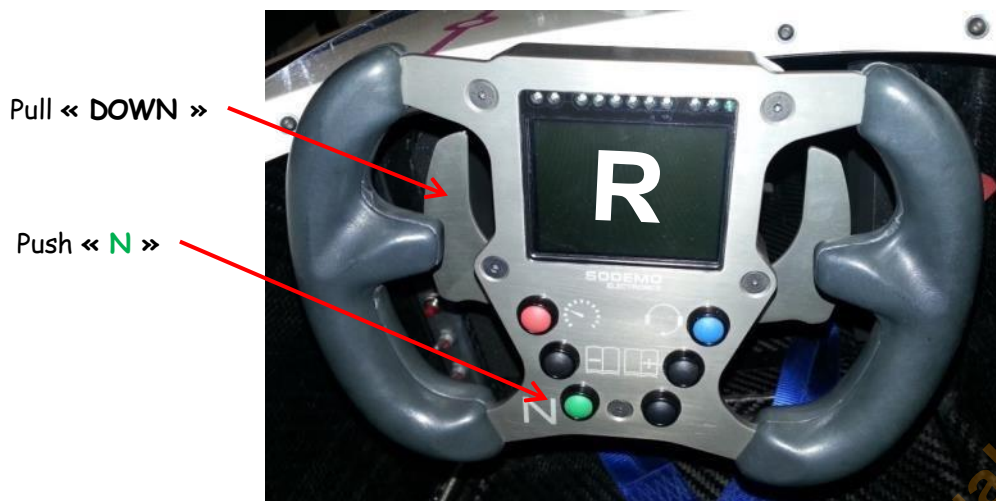
- To engage 1st gear (when neutral "N" is displayed on the dashboard) push Neutral (N) together with shift paddle "UP".



- To return to neutral (when 1st gear "1" is displayed on the dashboard) push Neutral (N) together with shift paddle "DOWN".



- To shift into reverse (when neutral "N" is displayed on the dashboard) push Neutral (N) together with shift paddle "DOWN".



On the Technical bulletin F41-12-BT-11, Mygale describes the correct procedure to engage reverse gear.

PROCEDURE TO ENGAGE REVERSE GEAR:

A) If the car is running in the track:

- a1 - Slow down the speed of the car and downshift to 1st gear.
- a2 - Use the clutch pedal and the brake pedal to stop the car with the engine running.
- a3 - When the car is completely stopped, downshift to Neutral (clutch pedal still engaged), and after, downshift N --> R
- a4 - With the reverse gear selected, remove the brake pedal and remove slowly the clutch pedal to move to rearward direction.

B) If the car is over the stands or static in the ground:

- b1 - Make sure that the rear wheels are not spinning (use the brake pedal).
- b2 - Use the clutch pedal to downshift from N --> R

IMPORTANT:

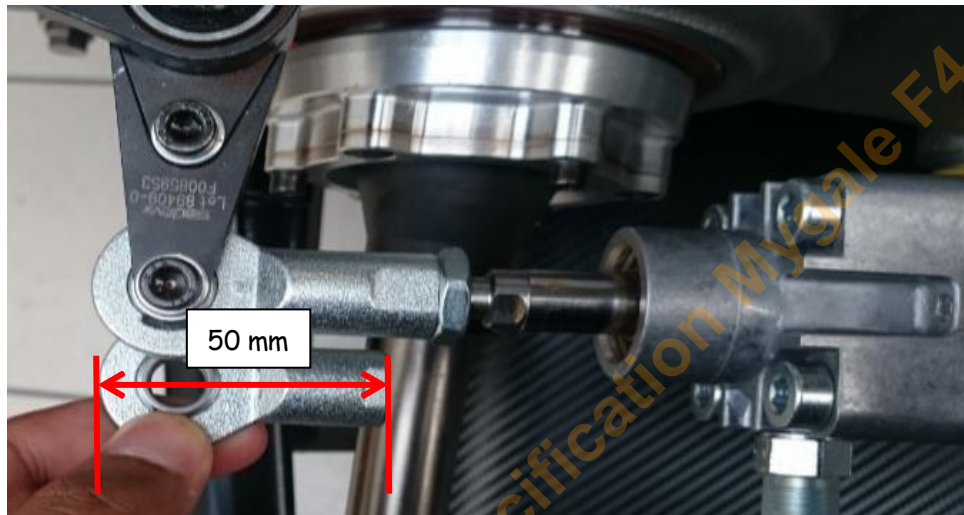
- 1 - To engage the reverse gear the driver must make use of the clutch pedal (to downshift 1st to Neutral and Neutral to reverse)
- 2 - To engage the reverse gear, the driver must be sure that the car is static (speed = 0)
- 3 - The driver should not engage reverse gear before be sure that the rear wheels are not spinning in the forward direction (wet conditions or car stucked in the gravel).
- 4 - When the reverse gear is engaged, the driver must release the clutch pedal in a smooth way (the abrupt release will transfer all the loads to the reverse gear and can damage this)
- 5 - The driver should not rise the rpm of the car over 3500 rpm , as the torque at this rpm can damage the reverse gear.

3.12.2 GEAR-SHIFT PNEUMATIC JACK

Rod position on gear-shift pneumatic jack may have to be adjusted:

Due to parts manufacturing tolerances, the teams must adjust the length of the ball joint, and the position of the shaft of the pneumatic jack to ensure a proper functioning of the shifting and avoid mis shifting or over shifting issues.

The Technical Bulletin F41-12-BT-07-Gear_shift_actuator_balljoint-V2 explains how to proceed in this task. Below you will see the difference in length between the old model of ball joint and the current model (5 mm shorter).



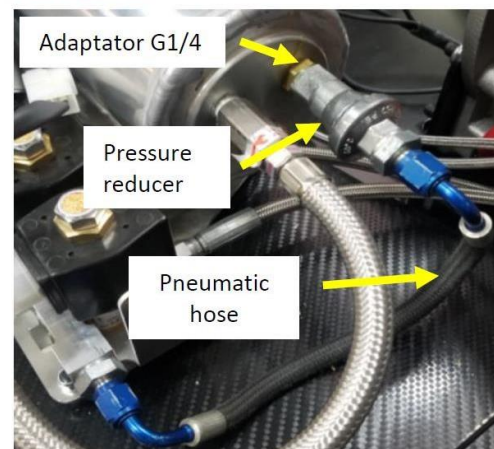
The new length of the ball joint will allow a better displacement of the actuator shaft, but each car must be adjusted to avoid over-shifting (jumping of gears).

To improve the reliability of the pneumatic paddle shift system and ensure a constant pressure supply from the air tank to the actuator during the shiftings, the air tank has a pressure reducer that reduces the pressure from the tank to 7.0 bar. To have more information please check the Technical Bulletin F41-22-BT-01.

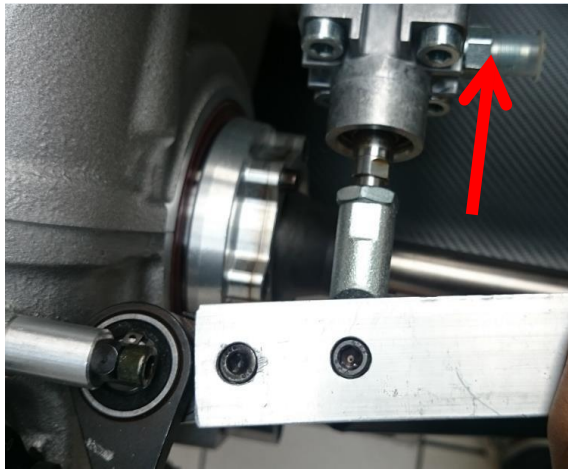
Previous system



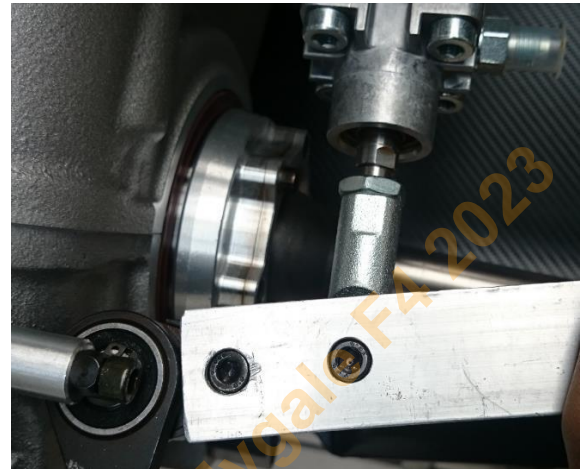
New system



To adjust this assembly in the right length, the teams must adjust the shaft manually in a way that after hear the mechanical engaging in the gearbox the shaft will travel just few millimeters (2-3 mm) until achieve the stopper.



1-After some displacement it's possible to hear the next gear engaging.



2-After the mechanical shift, the shaft must travel few millimeters until the stopper

3.12.3 PADDLE SHIFT WEAR TESTS

Use technical bulletins F41-12-BT-08 (Actuator leak test V1) and F41-12-BT-09 (Leak test for air tank V1) to check if the compressor, air tank and air actuator are working well, and if some maintenance or part replacement is required.

A seal kit is available in the spare parts catalogue for the actuator.

3.13 GEAR BOX RATIOS

The standard gearbox build specification is:

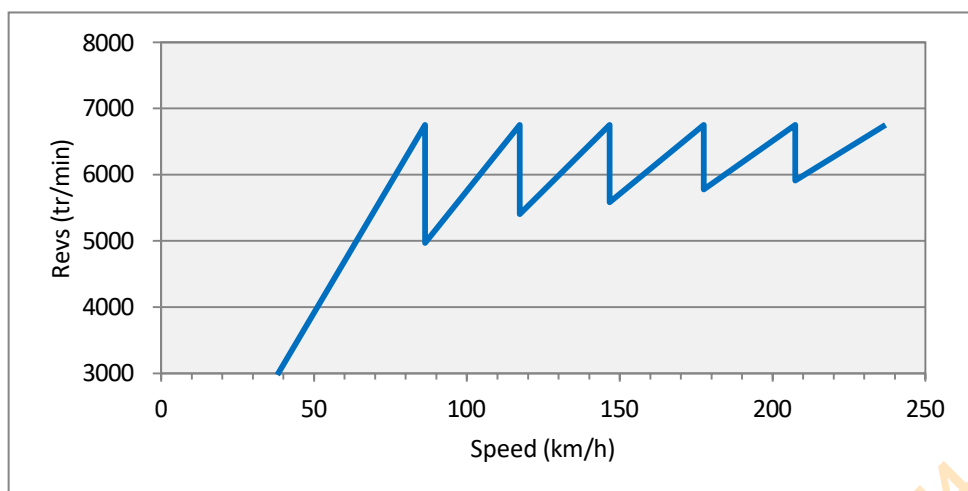
Differential: free (open with no limited slip)

CWP ratio: 10/31

Gear ratios:

1 st	14/37
2 nd	18/35
3 rd	18/28
4 th	21/27
5 th	20/22
6 th	27/26

The gear ratios are drawn on the following graph:



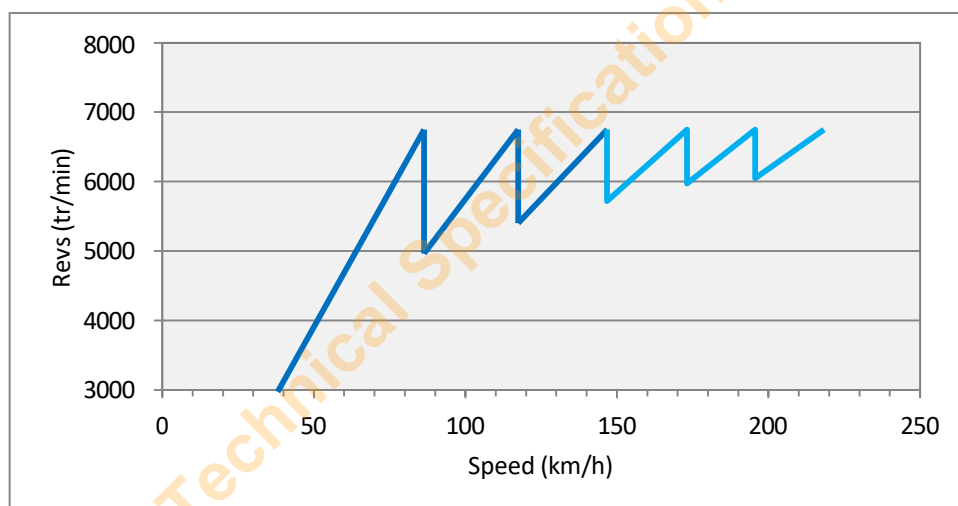
Short gear ratios are available in option:

Gear ratios (option):

4th 22/29

5th 24/28

6th 22/23



3.14 DATA ACQUISITION

The following sensors are included in the data acquisition kit:

- Steering angle
- Front wheels speed
- Acceleration in 3 axes
- Front and rear brake pressure
- Lap timer
- Gear
- Throttle pedal
- Smarty camera

The data download cable is available as an option in the spare parts catalogue, ref F.41.35.226.

3.15 BRAKE PADS

The standard fit brake pads are the Ferodo DS performance, reference F.41.17.004 are identical front and rear.

Other brake pads are available in option:

- Ferodo DS3000 (reference F.41.17.007).
- Ferodo DS1.11 (reference F.41.17.008).

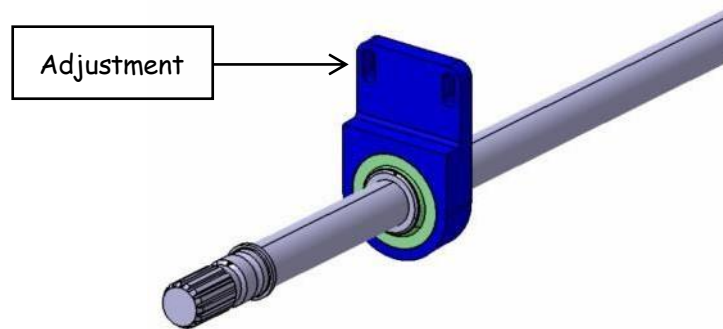
New brake pads must always be bedded following Ferodo bedding recommendation. Heating gradually stepwise, until minimum 500°C is reach.

To improve the handling of the brake system as well as the driver's feeling, Mygale is making available an extension cap for master cylinder (F.41.17.034), and a new option of master cylinder, the master cylinder 0.7" (F.41.17.033). Teams are now allowed to mix the current ones (3/4" and 5/8").

Check the Technical Bulletin F41-17-BT-03- Master Cylinder_options-V1 for more information.

3.16 STEERING SYSTEM ADJUSTMENTS

The height of the steering column can be adjusted by changing the position of the bracket on the monocoque.



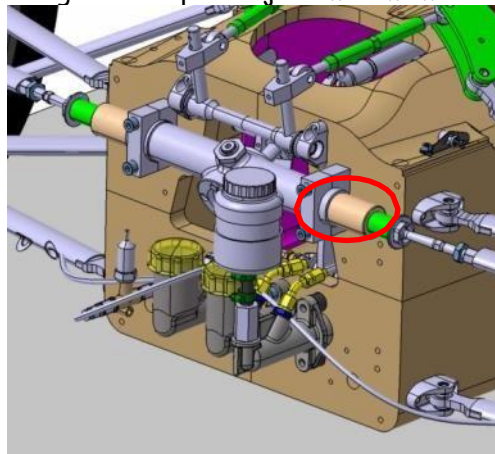
In addition to the standard steering column, a longer steering column is available as optional part:

- F.41.16.001: Standard length
- F.41.16.046: Length +80mm
- F.41.16.053: Length specified by customer (check the technical note released by Mygale and the 2017 catalogue).

Spacers for the steering wheel are also available as optional parts to adjust the longitudinal position of the steering wheel (reference F.41.16.003). **Only maximum 3 spacers are homologated.**



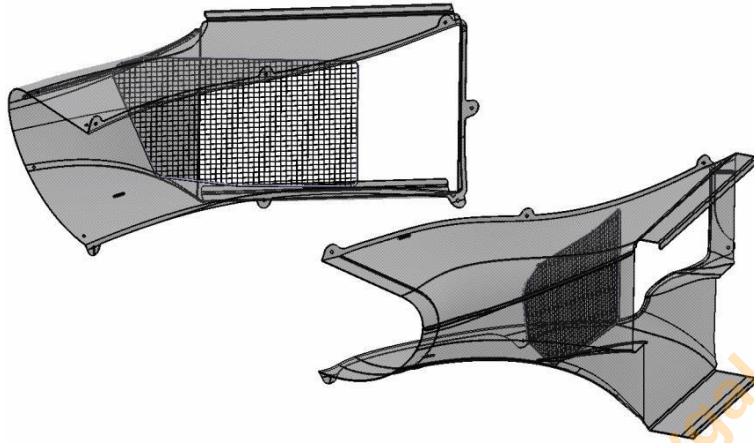
It is also possible to cut the steering rack stop to adjust maximum steering angle:



3.17 RADIATOR PROTECTION GRILLE

Radiator grille protections are available as optional parts:

- Right grille: F.41.26.081
- Left grille: F.41.26.082

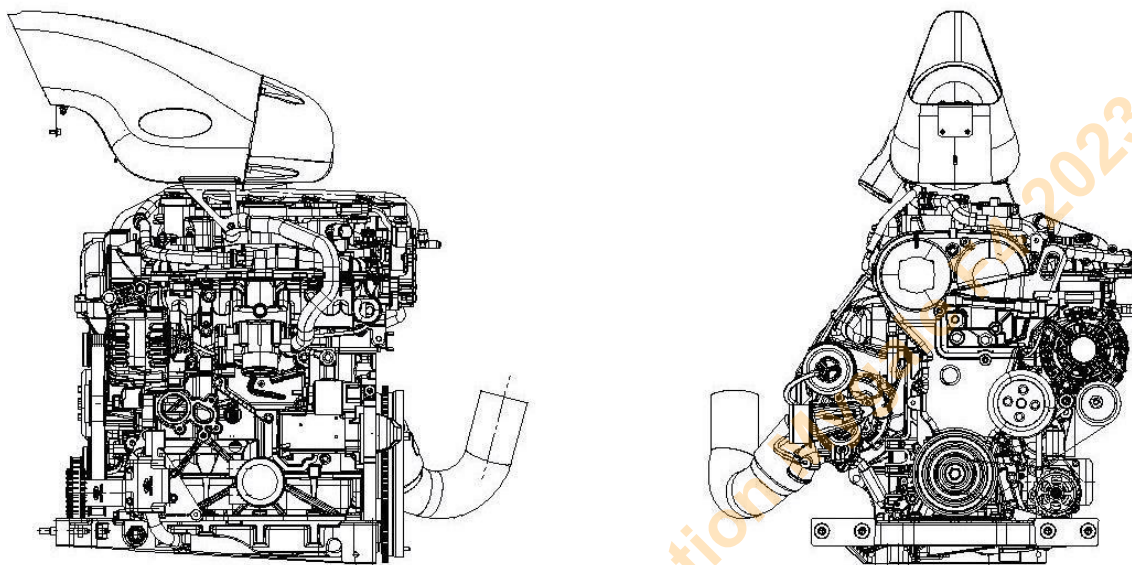


To ensure that the paddle shift system will work properly, Mygale advises the teams to not blank the left radiator. The lack of fresh air in this side will increase the internal temperature of the compressor (paddle shift system). As a result the compressor will switch off and the driver will not be able to upshift / downshift.

4.0 ASSEMBLY AND MAINTENANCE

Note: all safety critical components should be checked regularly.

4.1 ENGINE



Individual engine lease contracts must be adhered to.

4.2 TRANSMISSION

4.2.1 GEAR BOX

The Sadev SL75-14 LW F4 gearbox is homologated for use in the Mygale M14-F4. No other gearboxes have passed a rear impact crash test.

Clutch shaft specification depends on the gearbox manufacturer and the type of engine.

For all information regarding build and maintenance gearbox, customers should refer to the Sadev user manual.

To avoid issues with the reverse gear, Mygale advises the teams and drivers to avoid the downshift 1st gear to Neutral without the use of the clutch pedal.

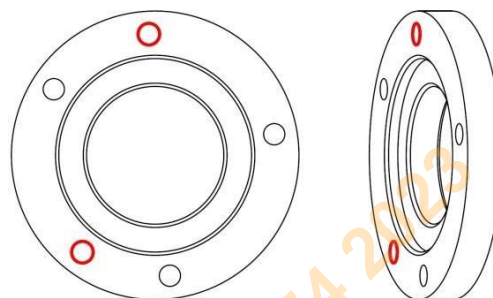
When the driver needs to downshift 1 => N, make use of the clutch pedal.

4.2.2 CLUTCH

In production, a batch of clutch release spacer F.41.12.076 has been drilled on the wrong side in a first time, and has two useless holes (see in red on following drawing). Only this batch, with the marking 028-15, is allowed with these supplementary holes.

To improve the driver's feeling during the use of the clutch pedal, Mygale is making available another two options of clutch master cylinders:

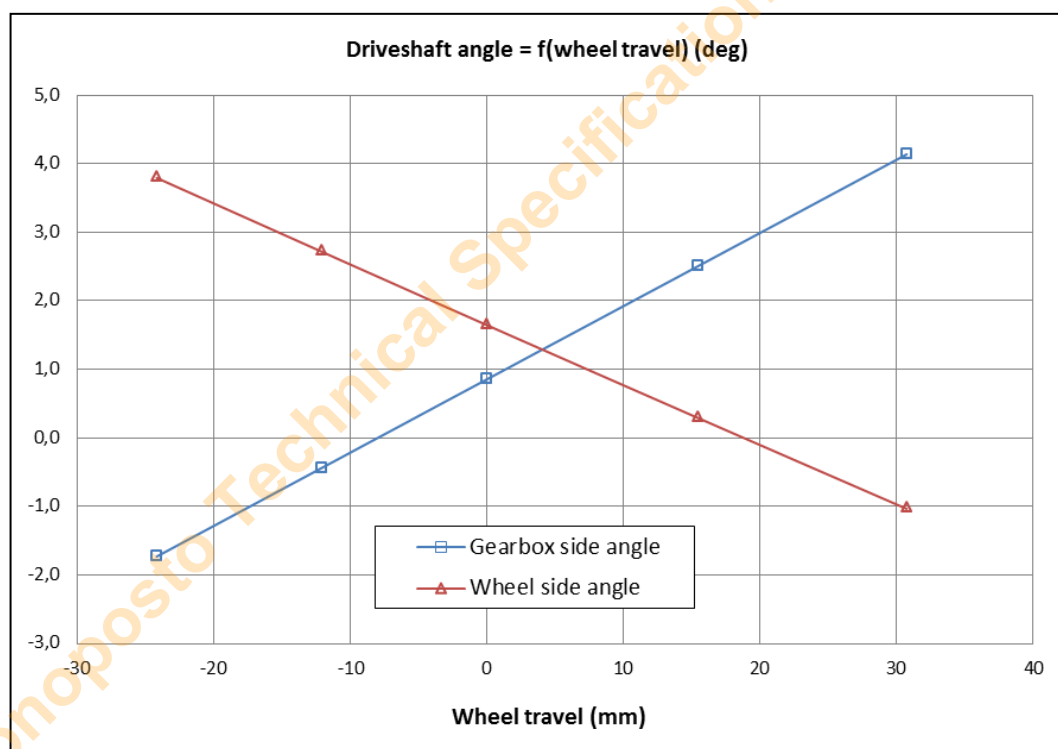
- Master cylinder 5/8": F.41.12.156
- Master cylinder 0.7": F.41.12.157



4.2.3 DRIVE SHAFT

The standard fit driveshaft is supplied by Sadev.

For safety reasons, right and left driveshafts must not be inverted.



Driveshaft angles are given for 2.5° negative camber, face viewed.

4.3 STEERING SYSTEM

The steering rack and steering column are homologated components which may not be modified.

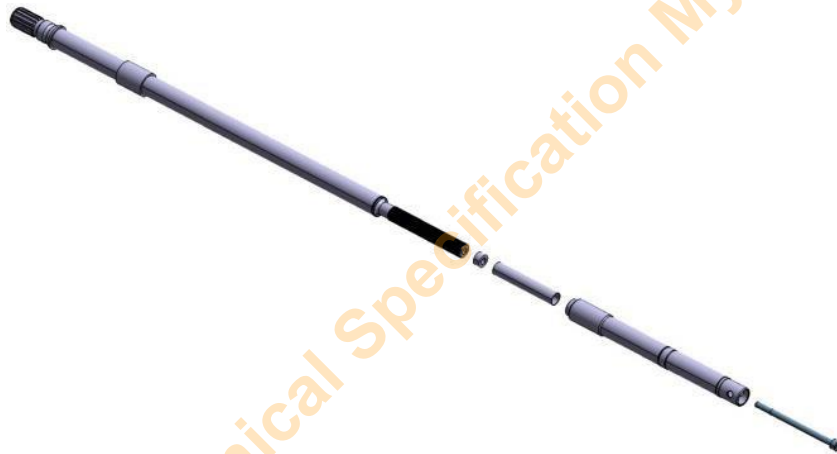
4.3.1 STEERING RACK

Tightening torque to ensure the steering rack movement: 34Nm

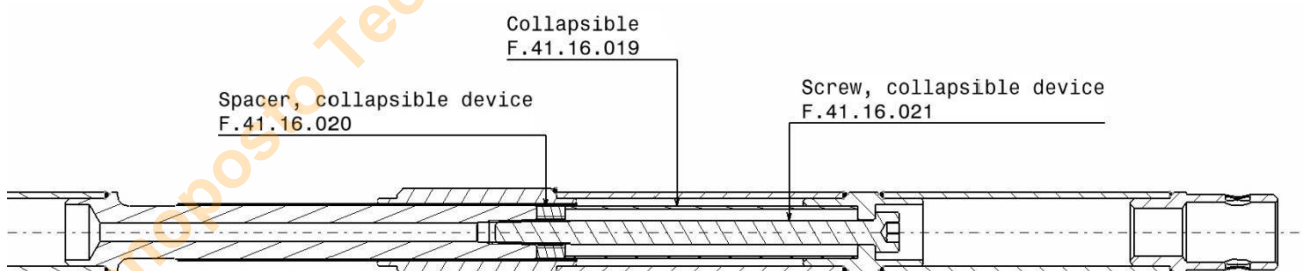
4.3.2 STEERING COLUMN

The steering column includes a collapsible device homologated with the FIA which must not be modified. The column length must not be altered by adjustment of the length of the collapsible device.

The upper and lower parts of the column are joined by a splined sliding section, held together axially by a capscrew which tightens against the collapsible device. If disassembled, must be reassembled with grease.



Section of the steering column assembly:



4.3.3 STEERING COLUMN JOINT

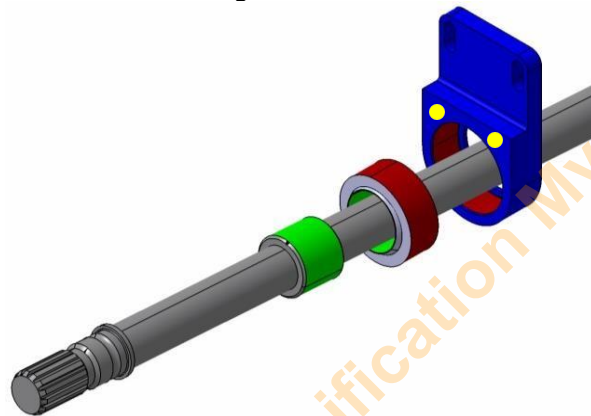
For safety reasons, it is recommended to thoroughly inspect the steering column joint after each shock or crash.

4.3.4 STEERING COLUMN BEARING

To avoid steering column bearings going out of their housings, the following recommendations must be followed:

1. Ensure that the steering column can slide freely in the bearing. Sanding of the part might be required to adjust this. (Green surfaces on the picture). **Add silicone grease if needed.**
2. Bond the spherical bearing in the housing with Loctite 638. For this purpose, the contact surfaces must be slightly scratched and cleaned to optimize bonding. (Red surfaces on the picture).

Furthermore, a new revision of the bracket has been introduced with two holes (yellow on picture below) to screw washers to maintain the bearing.



4.3.5 STEERING WHEEL GLASS

When removing the steering wheel some drivers or mechanics may push the glass with their fingers. Be careful, pushing too hard could break the sealing and cause glass damage.



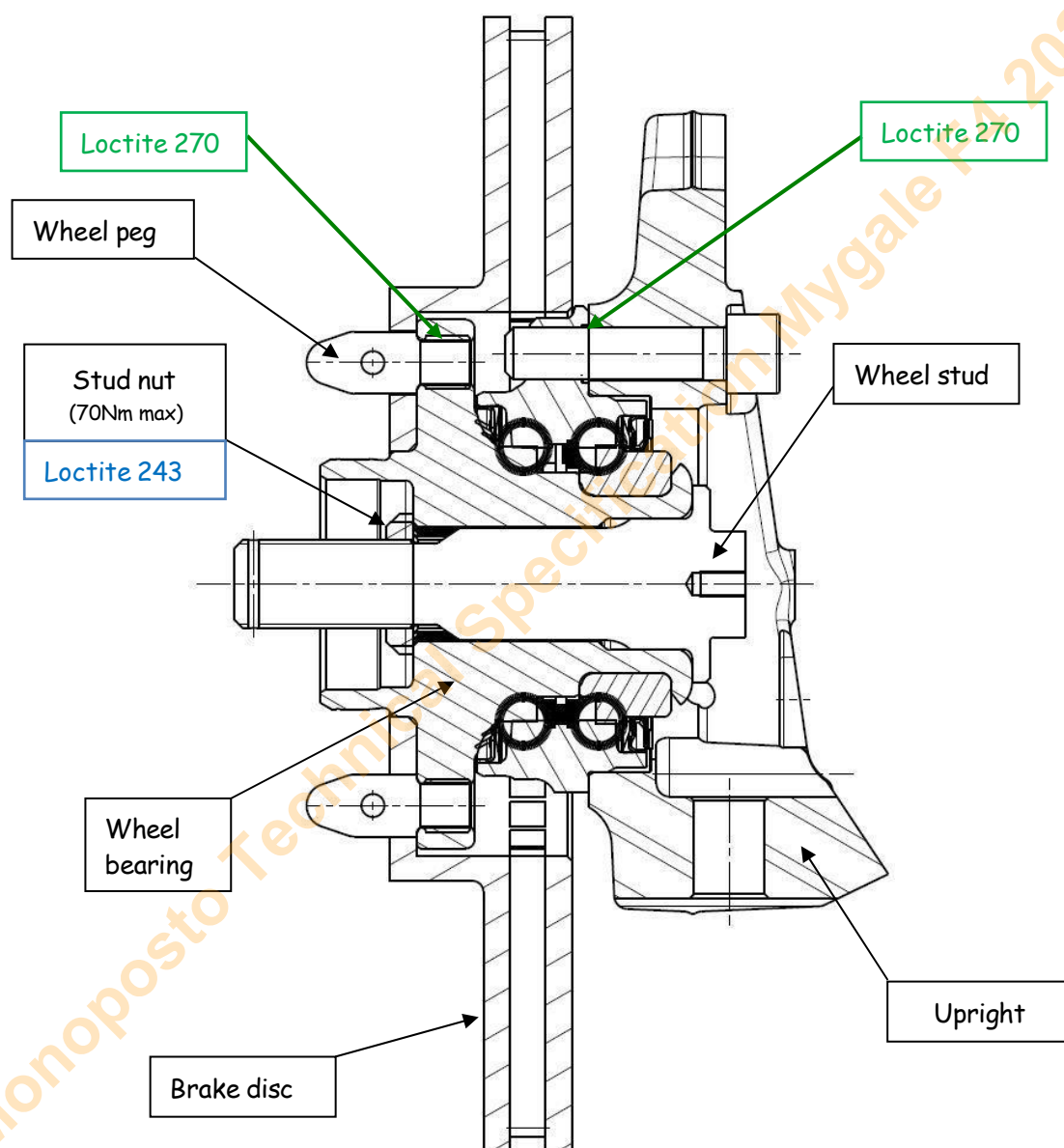
4.4 HUB ASSEMBLY

4.4.1 FRONT AND REAR HUB ASSEMBLY

The uprights, wheel bearings, wheel drive pegs and lock nuts are identical front and rear.

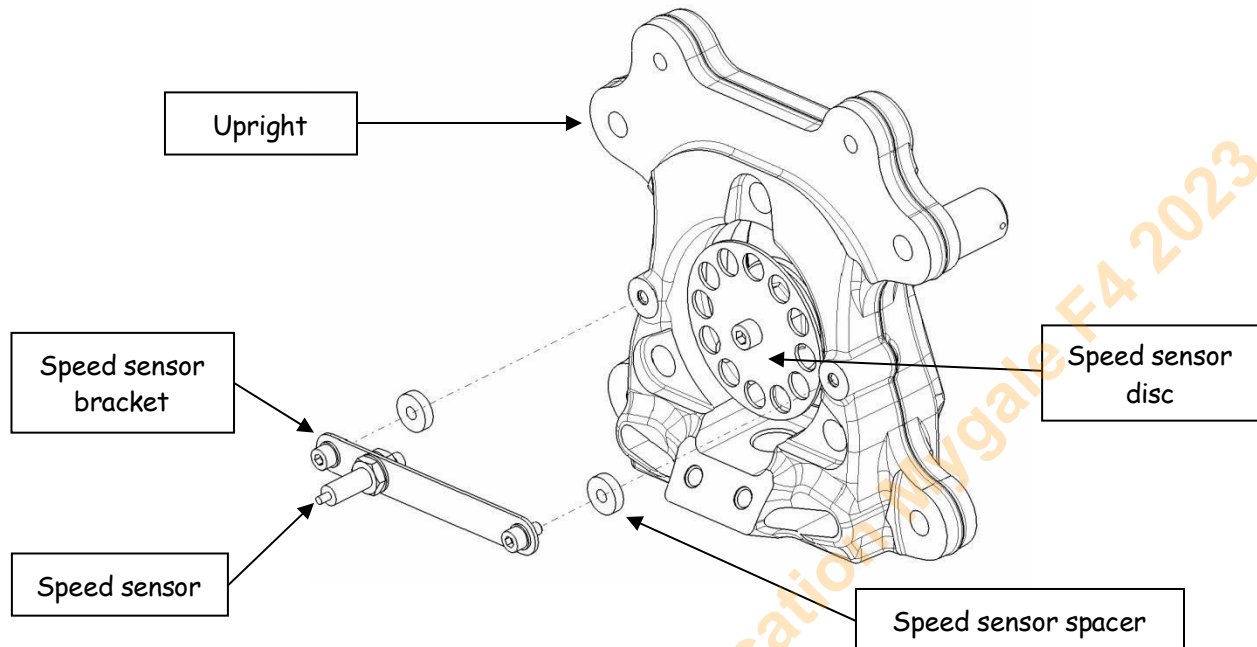
- At the front the front stud is fitted in the wheel bearing.
- At the rear the driveshaft is fitted directly in the wheel bearing.

It is not recommended to engage the wheel nuts with a pneumatic screwdriver.



4.4.2 WHEEL SPEED SENSOR

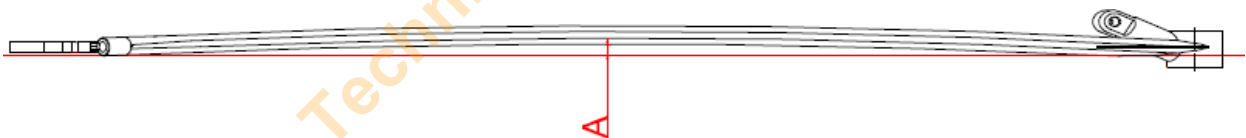
Provision for wheel speed sensors is made on the front uprights (data acquisition kit). The speed sensor bracket and disc are respectively references F.41.21.003 and F.41.21.004. The spacer ref is F.41.21.079.



To ensure the good working of this sensor, Mygale advises the teams to adjust it 0.75 mm from the target.

4.5 WISHBONES AND PUSHRODS

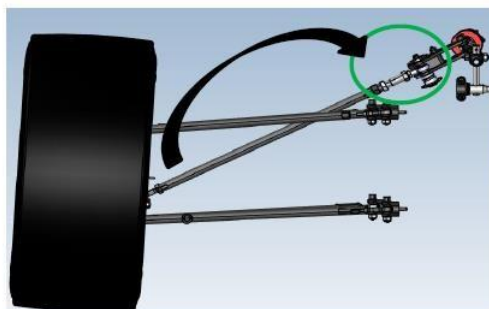
Wishbones are usable only when they are **straight**. If flexion (distance A on the drawing below) is **over than 1mm**, the wishbone **must not be used**.



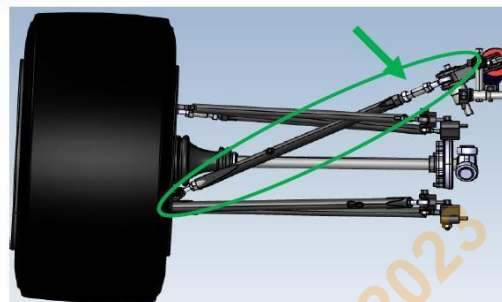
To avoid the flexing, do not ratchet strap the car in the truck, do not lift the car by the wishbone. In the case of a damaged ball, Mygale proposes a staking bearing joint replacement (F.41.14.121). Wishbone primary ball joint is glued with Loctite in its housing, and must be heated for disassembling.

To allow an easy access to the pushrod adjuster to set up the ride height, Mygale is adopting a new assembly position for the front pushrod and making available a new rear pushrod.

NEW ASSEMBLY



New pushrod



To order the new rear pushrod, please refer to the part number: F.41.15.039.A Rear pushrod EVO.

4.6 HEAT PROTECTION

To avoid any damage to the composite bodywork, it is recommended to install a thermal protection on the floor, the sidepod and the engine cover around the exhaust.

Thermal protection is also recommended between the monocoque and the engine.

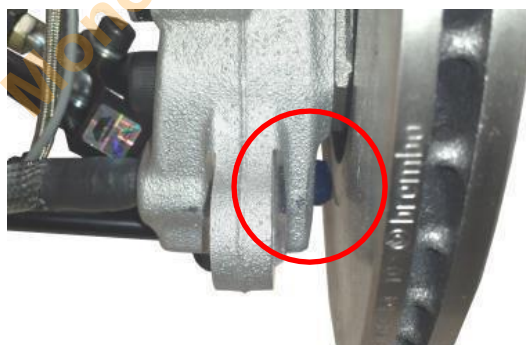
4.7 WHEEL CABLES

It is recommended to replace cables if one or more of the following conditions are met:

- The cable has been on the car for 12 months
- The car has been in an accident
- The cable has been damaged, i.e. the braid, tape or mould have been damaged exposing the fibre
- The cable or cover has been cut out

When mounting the wheel cable on the upright, ensure that the cable loop doesn't protrude too much on the outer side of the upright, so that it can't make contact with the brake disc (left figure below).

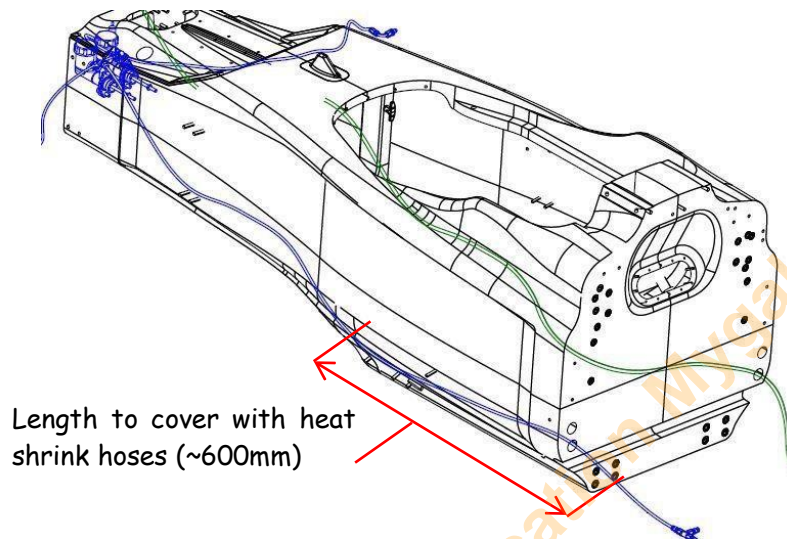
The freedom given to the outer end of the wheel cable must be adjusted accordingly when tightening it against the suspension arm and installing the wheel cable cover (right figure below).



4.8 BRAKE LINE PROTECTION

To ensure a good protection for the brake line, it is recommended to replace the heat shrink sheath covering in the area of the wishbone when it is damaged.

To prevent wearing damages on electric cables, it is highly recommended to cover the main rear brake line and main clutch line surfaces with heat shrink hose.



To avoid brake or air line damage, make sure to have the good layout of these hoses. As mentioned on the Technical Bulletin F41-17BT-02, these lines can be damaged if positioned between the gearbox and the rear floor.

For the paddle shift system this means that the driver will not be able to gearshift properly. For the brake system, the leak of brake fluid will result in the loss of rear brakes.

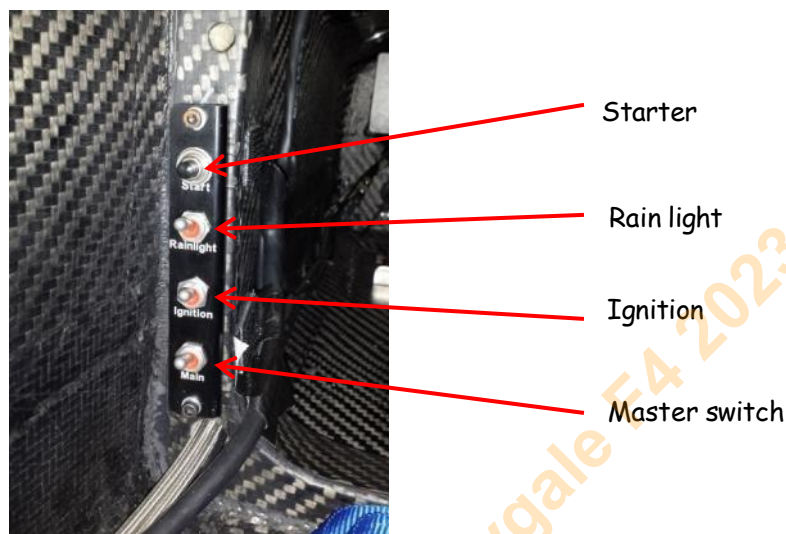


4.9 ELECTRICITY

4.9.1 BATTERY

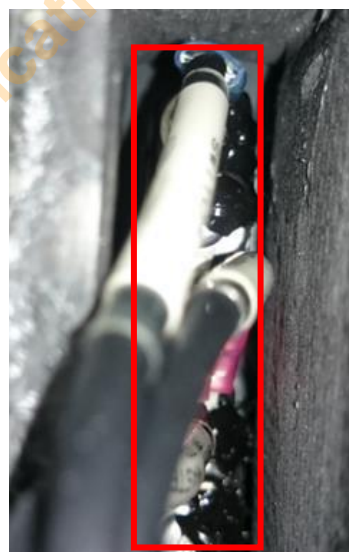
To ensure a good life time for the battery, it is recommended to charge it at the reception of the car and to charge it every 6 month when you don't use it.

4.9.2 COCKPIT SWITCH PLATE



Spacers F.41.21.104 are available as optional parts to offset the switch plate of 70mm. Teams are also allowed to reduced their lengths to optimize driver comfort.

The carbon fiber monocoque is a good conductor, so to avoid issues with the electric system, the teams must check periodically the gap between the switch plate terminals and the monocoque. To increase the protection in this area, the teams can use a tape around this region (red rectangle in the next picture) to avoid the contact wire \Rightarrow carbon fiber



For safety reasons, during electric maintenance, Mygale advises the teams to disconnect the cable from the battery (negative first) as described in the Technical Bulletin F41-21-BT-08.

Turning off the engine:

/! When turning off the engine, switch off ignition button in first, and then use the main switch when the car is stopped. If the main switch is used in first, there is a risk of high voltage on the alternator, and to damage it.

4.9.3 CABLES LAYOUT

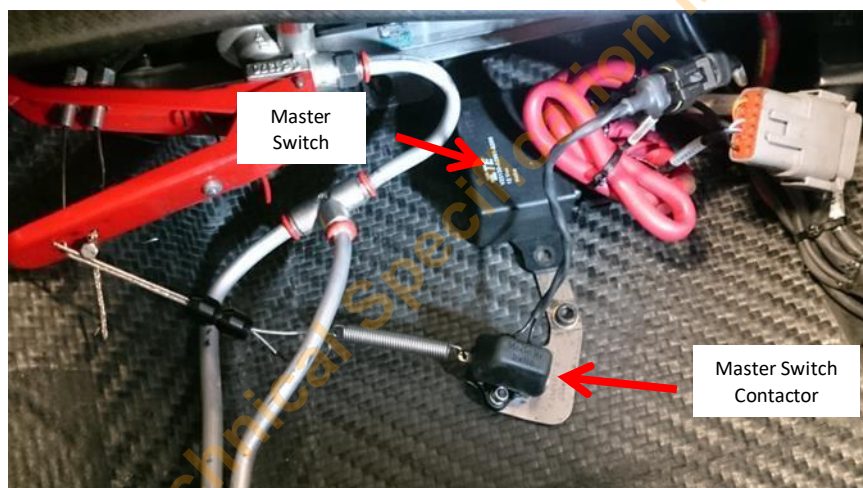
Mygale made available the Technical Bulletin F41-21-BT-07, with the description of the complete layout of the cables in the F4.

On this document you will be able to find the main problems caused by the wrong position of cables and components and how to solve these problems.

4.9.4 MASTER SWITCH AND CONTACTOR

Mygale advises the teams to check the following points when preparing the vehicle for a test / race:

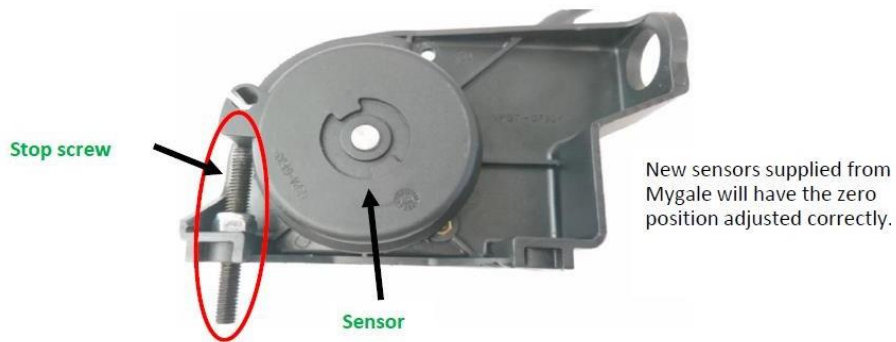
- Check if the internal spring of the master switch contactor presents some resistance to move (as good parts).
- The cable connecting the contactor trigger to the extinguisher must be free (without tension or interference with other parts).
- The small loom connecting the master switch contactor to chassis loom must not be damaged, twisted or disconnected.
- The extinguisher must be fixed without any degree of freedom (rotation, or displacement).



4.9.5 THROTTLE SENSOR

Current batches of the throttle pedal sensor may not have a suitable base setting for the zero position. Since this sensor is a series production component where Mygale cannot define the base specification, we have introduced an adjustment for the zero setting. If the base zero voltage is out of range it will provoke an error with the ECU.

To correct the reading of the new throttle sensor, the minimum position of the throttle can be adjusted as the procedure below (the next generation of sensors supplied by Mygale will have a stop screw to adjust the position of the sensor as picture below).



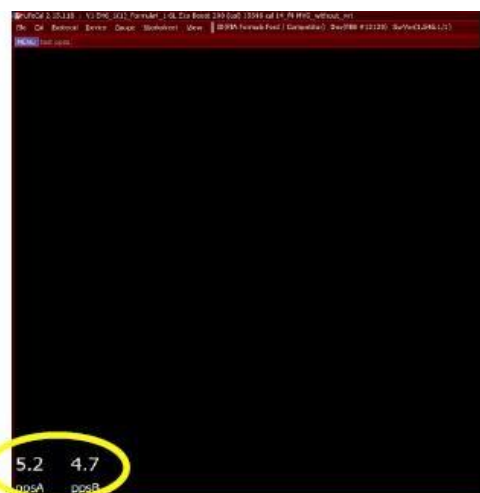
PROCEDURE:

- 1 - With the main switch OFF, connect the throttle sensor to the car without fitting the throttle sensor into it's bracket (to allow you easy access to tighten the nut and adjust the stop screw).
- 2 - Tighten the stop screw enough to move the sensor few degrees (clockwise) out of the rest position.



- 3 - With the main switch of the car ON, check the percentage of throttle using the steering wheel of the car or the software LifeCal. Initially this value must be over 1% before proceed to step 4.

RPM	4351	P FUEL	4.4
PDL	5	MAP	1262
TPS	19	P RAIL	102
WAT T	77	SW	0
OIL T	102	SPEED	92
OIL P	4.4	V GEAR	0.000
V BAT	0.0	BEACON	0
AIR T	51	GSP	1.0



- 4 - Using the steering wheel or the software LifeCal, adjust the stop screw until you have a value close to 0% ($0\% \pm 0.3\%$).

Attention: If go below 0%, the sensor may enter into the default mode, and you will need to restart the procedure from step 1.

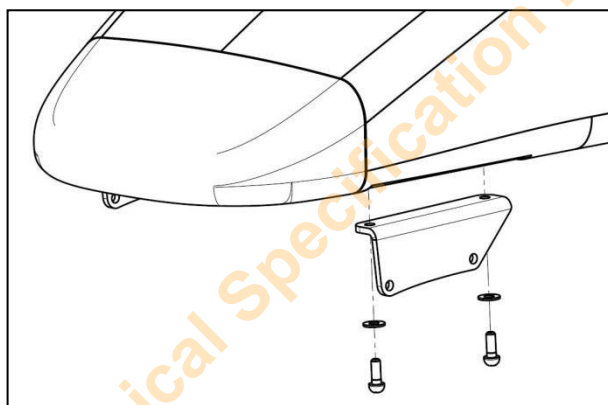
5 - With the sensor adjusted close to 0% ($0\% \pm 0.3\%$ to 0.0%) check if the sensor covers all the range from 0 to 100%

6 - Fit the sensor to the bracket, and the complete assembly to the car.

4.10 WINGS

For reliability reasons, it is highly recommended to replace the wings every two years. Moreover, it is also recommended to check the wings regularly in order to detect the potentially damaging effects of small hits or contacts on the endplates.

To avoid matting or weaken the front wing mounts, it is recommended to tighten them moderately on the crash box, and to use the medium washer specified in the parts catalogue.



4.11 HEAD RESTRAINT

The head restraint must be properly assembled, with the fixations clipped securely. The head restraint must never be able to move freely.

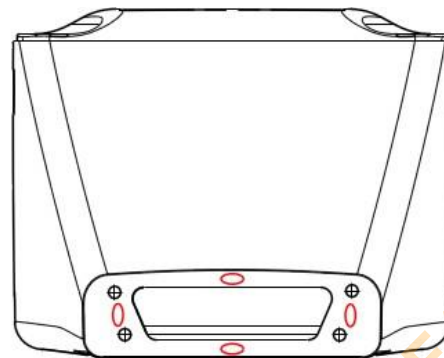
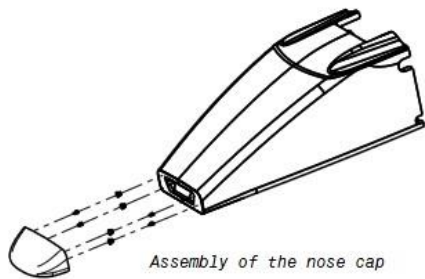
According to the regulations, it is not permitted to cover the head restraint with any material other than paint.

In the case of a damaged Head Restraint, the aramid skin replacement by Mygale is available (ref.: F.41.19.060).

4.12 MONOCOQUE CHASSIS, CRASH BOXES AND MAIN ROLL STRUCTURE

Monocoque chassis and crash boxes reparations must be performed by an approved entity. Before any modification or reparation, you **must** contact Mygale.

However, the team is allowed to change the nose cap. The nose cap must be properly assembled, with the fixations clipped securely on the main part of the crash box. Moreover, it is important to stick the nose cap on the crash box with four silicone points.



4 points of Silicone glue

In 2018, FIA introduced a new safety kit composed by a Front anti-intrusion panel and a new rear crash box.

Front anti-intrusion panel:



Rear crash box 2018



All cars delivered by Mygale after 2018 will have the new safety kit assembled.

For more information about how to assemble the safety kit on your Mygale F4, please contact our engineering department at engineering@mygale.fr, or consult the document "F4 Customer Information Note - Safety kit 2018 - Front Anti intrusion panel" on our website.

To clamp correctly the main roll hoop on the monocoque, we advise to all customers to consult the Technical Bulletin F41-19-BT-10- Roll_structure-V1.

The roll hoop must be free of painting on the areas highlighted below and the mechanics must minimize the number of tightening and untightening operations of the fixation screws.



4.13 BODYWORK

Bodywork repairs:

Teams are allowed to repair fibre glass bodywork components but the total surface of repaired areas must not be more 10% of the total surface of the part.

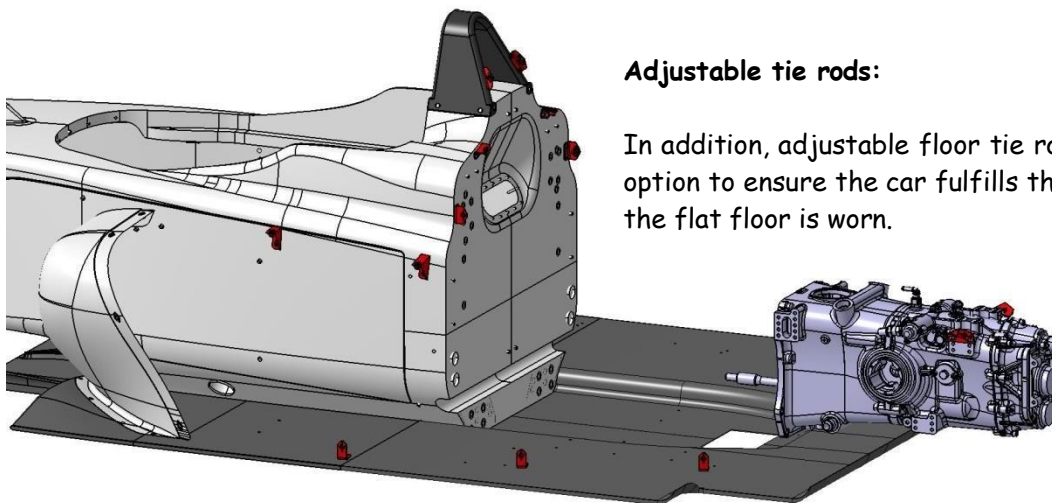
If you have some doubt, don't hesitate to contact Mygale

Bodywork adjustments:

To optimize sidepod adjustment, brackets on the floor and on the side of the monocoque can be adjusted.

For the engine cover, brackets on the rear face of the monocoque, on the rear roll hoop and on the gearbox can be adjusted.

Adjustable brackets are in red on the following drawing:



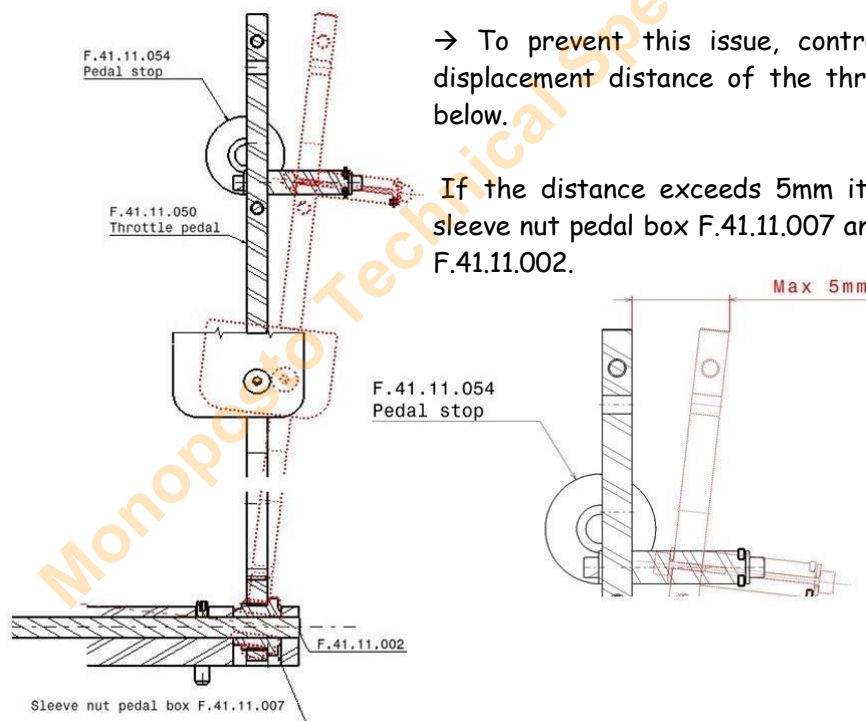
Adjustable tie rods:

In addition, adjustable floor tie rods are available in option to ensure the car fulfills the regulations when the flat floor is worn.

4.14 THROTTLE PEDAL

Throttle pedal wear:

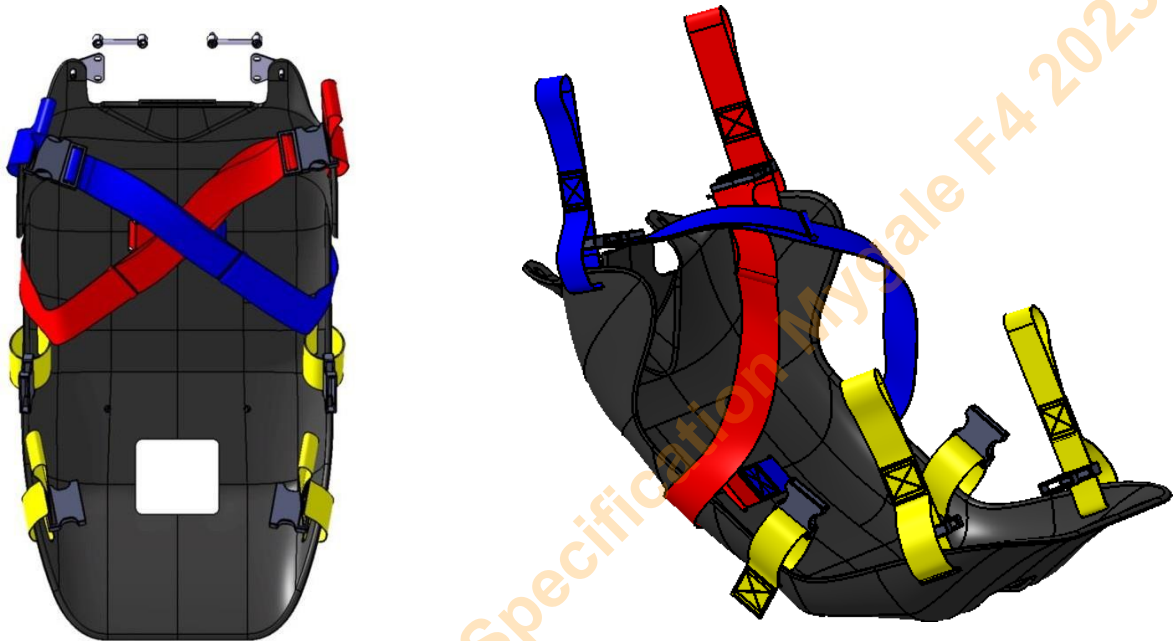
The intensive use of the throttle pedal could create a wear slacks which allows an angular variation of the pedal. In a case of marked wear, the pedal passes next to the pedal stop.



4.15 EXTRACTABLE SEAT

In order to fulfil the last requirements of FIA, Mygale developed a new extractable seat (F.41.19.067) as shown in the picture below, included in the 2017 safety kit. The extraction belts are now sewn in the composite seat.

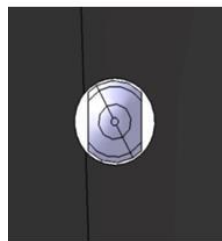
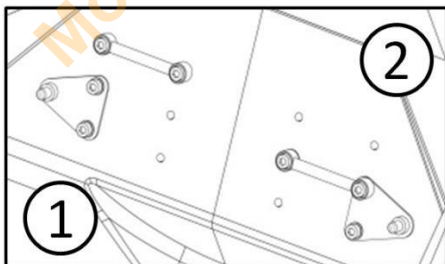
The installation of this new seat can be found in the Technical Note "F4 FIA - Mounting of the Safety kit 2017" released by Mygale to all teams.



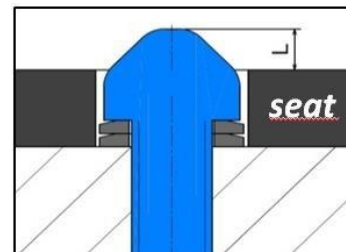
A) If belt bracket is on upper position, just add the seat upper centering plates (1).
If not, add the centering plates between the bracket and the monocoque (2), filling then the gap on inward point by 2 D6 small washers.
Ensure screws does not go through inside the fuel tank volume.

B) Ensure the chassis loom is correctly maintained close to the monocoque to not have clash with the seat.

C) Ensure lower centering pins are oriented parallel to the car center line, and that a length L exceeds seat thickness.

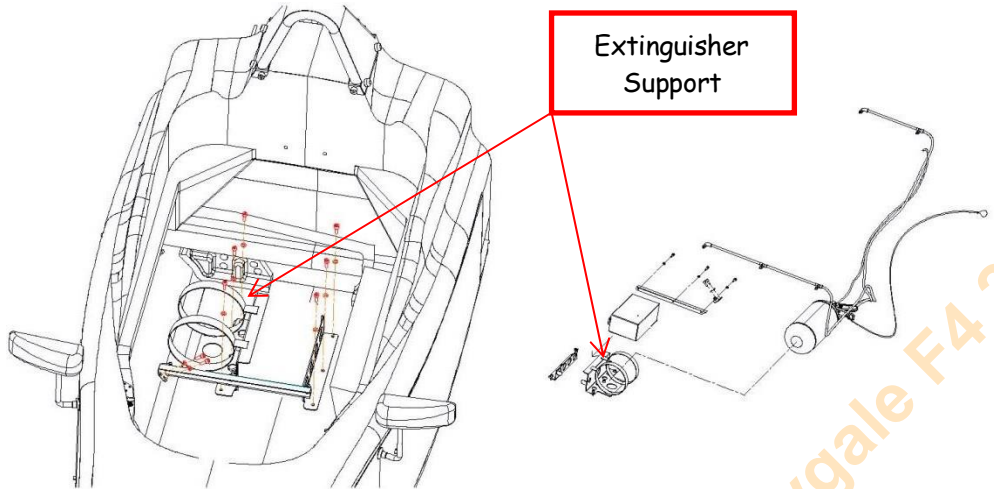


↓
FRT



4.16 FIRE EXTINGUISHER

The fire extinguisher must be fitted in its support in the monocoque. Be sure that it is solidly attached by its retainer and will not rotate. Check also the master switch contactor cable.



An interior pull handle cable is located on the right of the steering wheel. The exterior cable is located on the right of the rear rollover structure, and also activates the main master switch. Do not forget to add extinguisher and electrical switch stickers in this area, according to regulation.

Eventually, Mygale proposes an extinguisher refill (ref: F.41.19.059).

A spacer F.41.19.061 of 70mm is available as option in order to make the extinguisher cable handle easier to reach for the driver. Its length can be reduced by 24mm on the whole side of the spacer.

4.17 MARKINGS AND HOLOGRAMS

Laser markings and holograms stickers must stay always visible and in any case must not be covered by painting or sticker. Furthermore, the holograms stickers must not be removed.

4.18 SCREWS

The screws which are classified as type 2 can be modified but must keep the same class and dimensions as specified in the spares parts catalogue.

Concerned screws are those related to safety components:

- Front crashbox
- Rear roll hoop
- Rear crashbox/rear wing mount
- Seat belt
- Shoulder belt bracket

4.19 FUEL SYSTEM

4.19.1 FUEL TANK

The fuel tank matches with the FIA specifications. All required details are issued in the certificate of compliance. (i.e. date of validation)

It is recommended to regularly wash the inside of the fuel tank to ensure there is no dirt in the fuel circuit. Mygale advises the team to clean the fuel cell and the fuel system after **the first uses**.

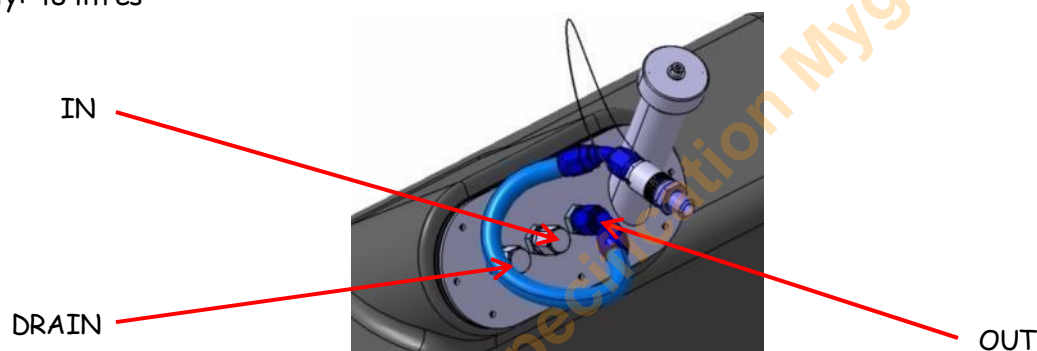
4.19.2 DRAIN

Do not use the car's fuel pump to drain the tank. It is advisable to use an external pump in order to avoid damaging the on-board unit.

An external pump can be attached to the drain hole by removing the dash cap on the fuel tank plate. It is also necessary to open the filler cap while draining.

Be careful not to damage the thread by over tightening the cap

Capacity: 48 litres

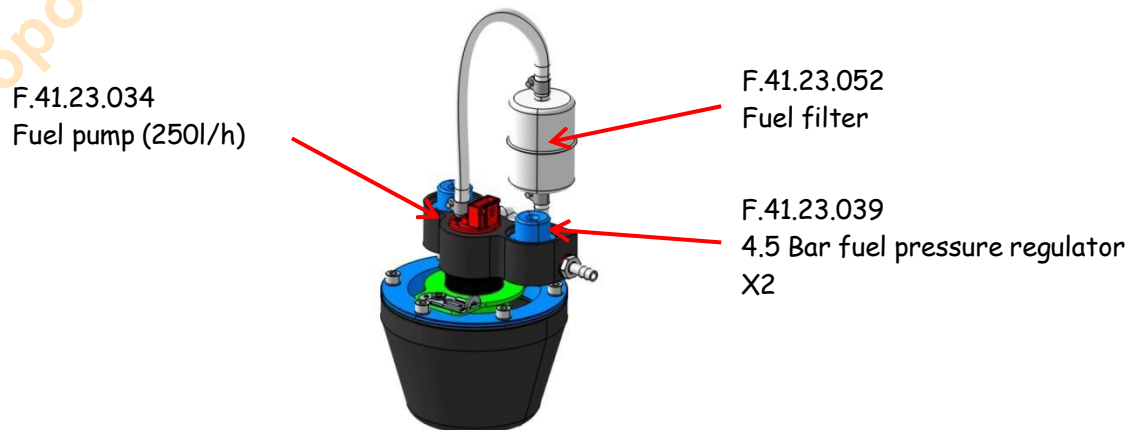


4.19.3 FUEL ASSEMBLY

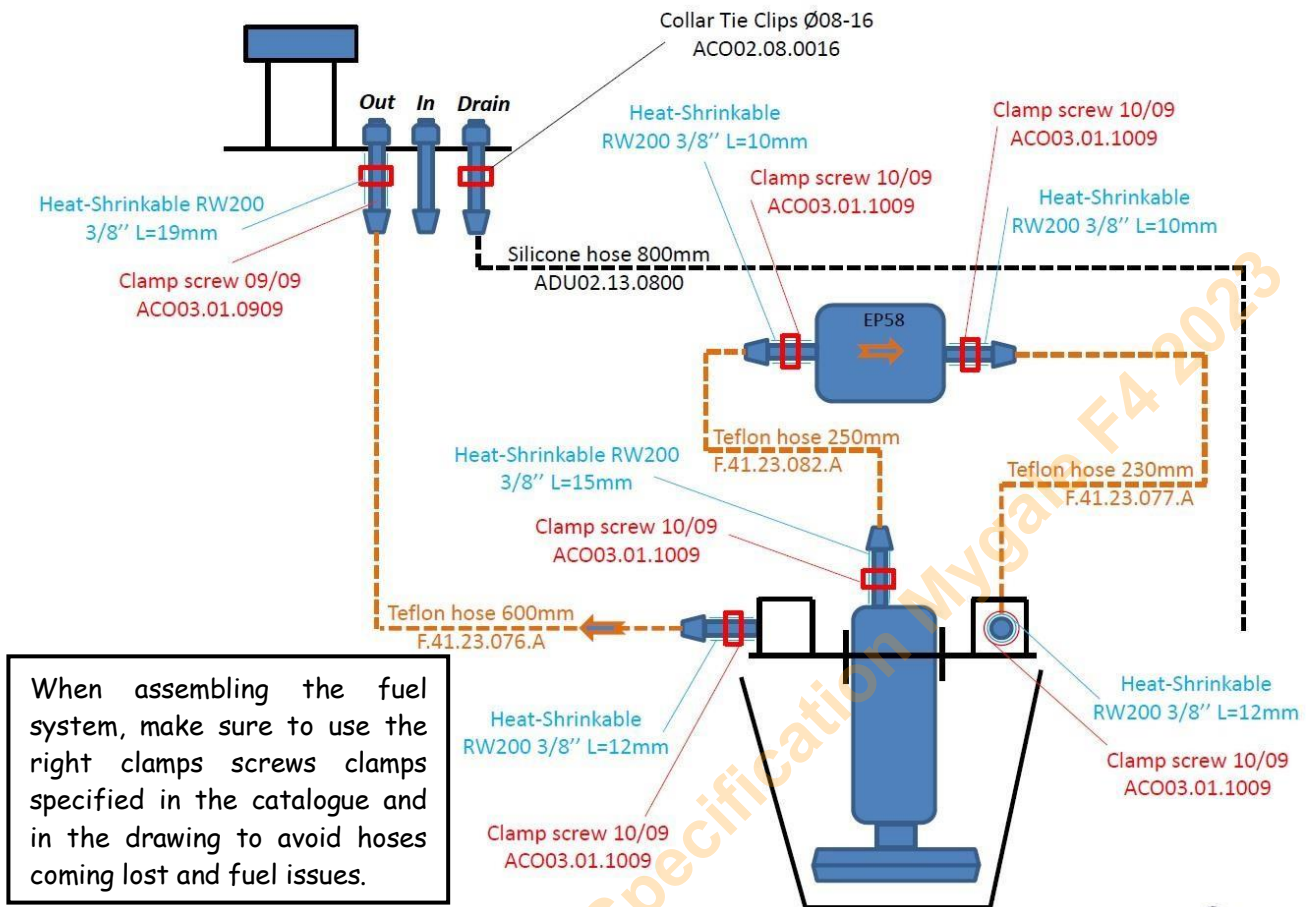
Overview:

The fuel pump assembly is composed of the fuel pump with its connector inside a fuel collector pot and a bracket with two 4.5 bar pressure regulators.

Use teflon hoses and clamp screws to connect in line the system. Also for a good sealing ensure that there are fuel resistant heat-shrinkable pieces on the pump, the fuel filter, the regulators bracket hose fittings and the fuel cell rear plate (see drawing on the next page for lines assembly details).

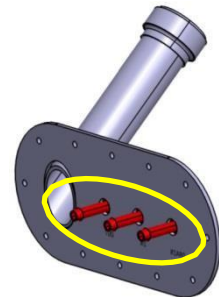


Fuel hoses details:



Rear tank plate modifications allowed:

The rear tank plate is modifiable as a type 2 part. Only hose fittings inside the fuel tank (red in picture) can be modified to suit with the fuel hoses



Update kit from former fuel system assembly:

Two kits are available in spare parts catalogue to update the fuel system from the former fuel buffer tank to the new collector pot system.

F.41.23.057: include the collector pot, regulators bracket and filter sock. Pump, regulators and fuel filter are not included.

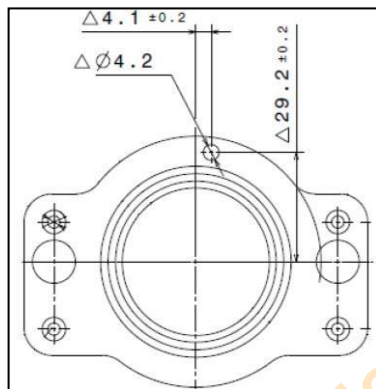
F.41.23.078: Include the three teflon hoses with clamp screws and heat-shrinkable pieces for sealing. The drain silicone hose is not included.

Also, the update needs the new fuel cell with the opening for the pot (F.41.23.073) and the new fuel tank padding (F.41.18.016)

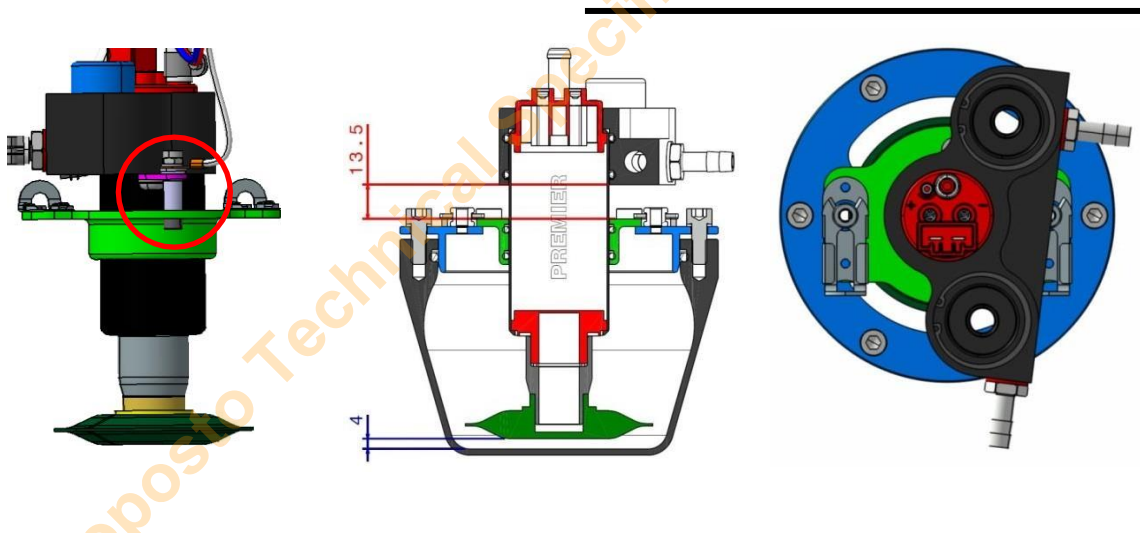
Mounting of the fuel system:

When fitting the fuel pump inside the pot, ensure a 13,5mm height between the lower face of the regulators bracket and the upper face of the pump bracket (green in picture below), to keep a 4mm clearance between filter socket and pot bottom.

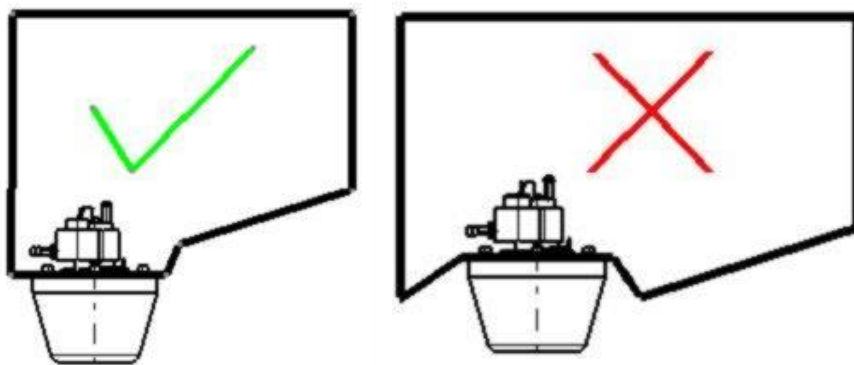
To make sure that the right distance as well as the position of the regulators bracket are been respected, Mygale developed a positioner (F.41.23.087) for the fuel system as showed in the red circle below. The Technical Bulletin F41-23-BT-09- Pump_positionner-V2 shows the details about the installation procedures and the modification allowed in the pump plate.



The regulators bracket must be oriented as on shown on below right picture.



The fuel collector pot must be mounted like on left below picture, in the rear-left side of the fuel cell as below as possible. Adjust the cutting of the foam padding to ensure this.

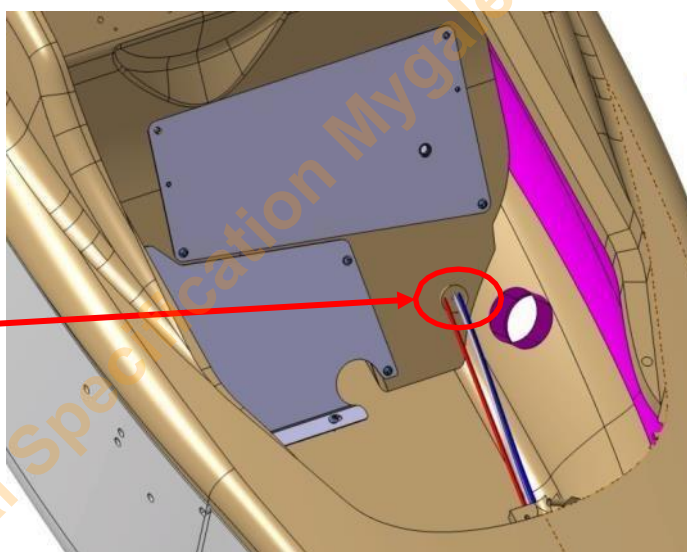


Use gasket compound Hylomar Blue to seal between collector pot and fuel cell.

4.19.4 SEALING

After all the gearbox and electric cables are insert in the monocoque, you must add expanded foam in the passage circled in red so as to ensure a sealing.

Expanded Foam

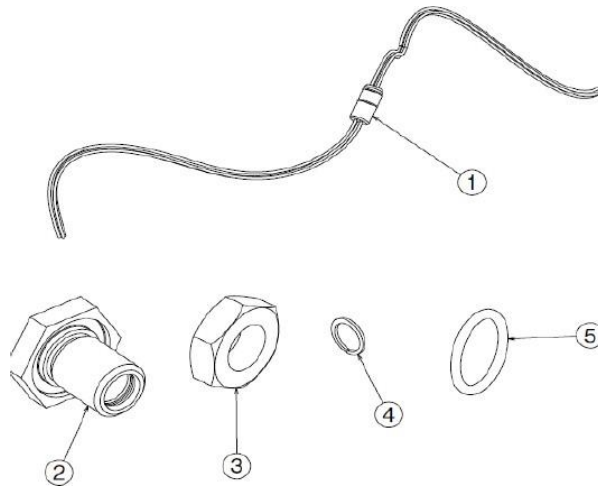


Mygale is making available a new fuel loom with a different sealing device to avoid the risk of fuel leaking into the cockpit. The Kit fuel pump loom V2 is composed of:

- 1 fuel loom with sealed body
- 1 housing with O ring
- 1 O ring
- 1 nut
- 1 circlip

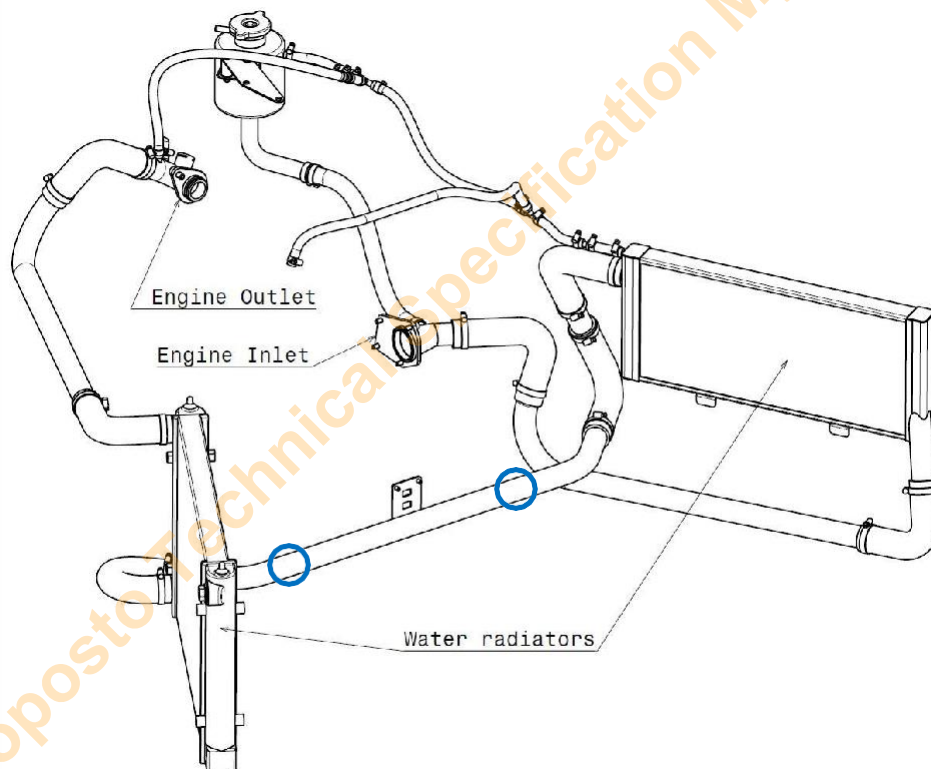
This kit is been introduced as a running change, and the next cars will be delivered with this update.

For customers interested to order the complete kit, please refer to the part number: **F.41.23.093.A Kit fuel pump loom V2**. The procedure of assembly as well as all modification needed, can be found on the Technical Bulletins F41-21-BT-15 and F41-23-BT-10.



4.20 COOLING SYSTEM

4.20.1 MAIN WATER CIRCUIT



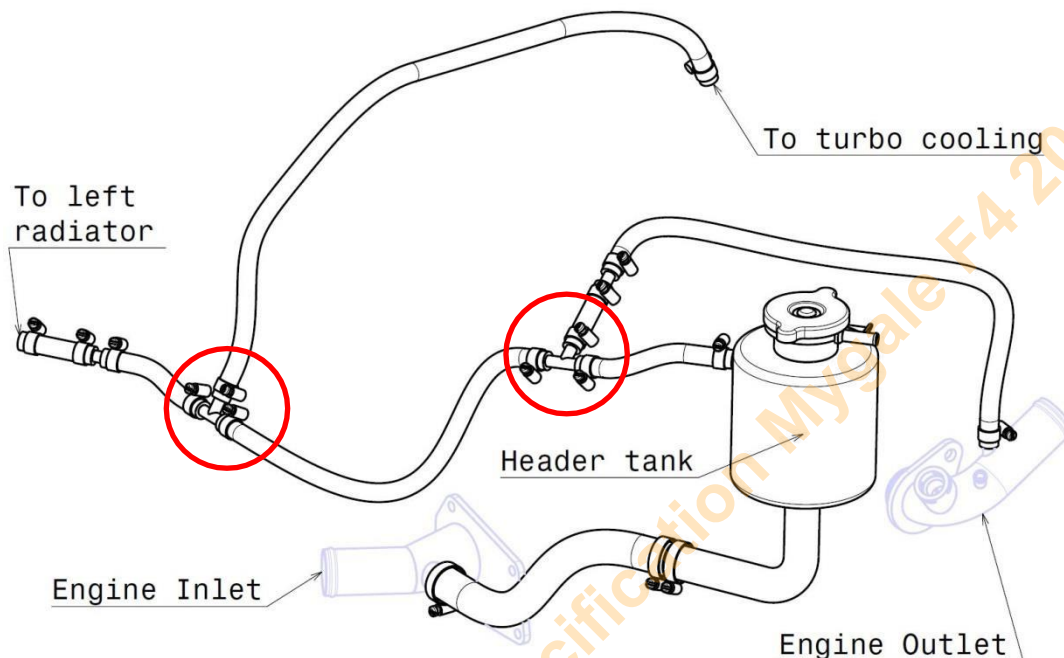
In order to make the mounting easier, it is allowed to cut or adjust the length of silicone hoses.

It is recommended to add two cut parts of silicone hose D32 around the water tube that is between the two radiators, to get a better maintaining through the monocoque rear face (blue circles).

If necessary, teams can add a paper gasket on the coolant engine inlet.

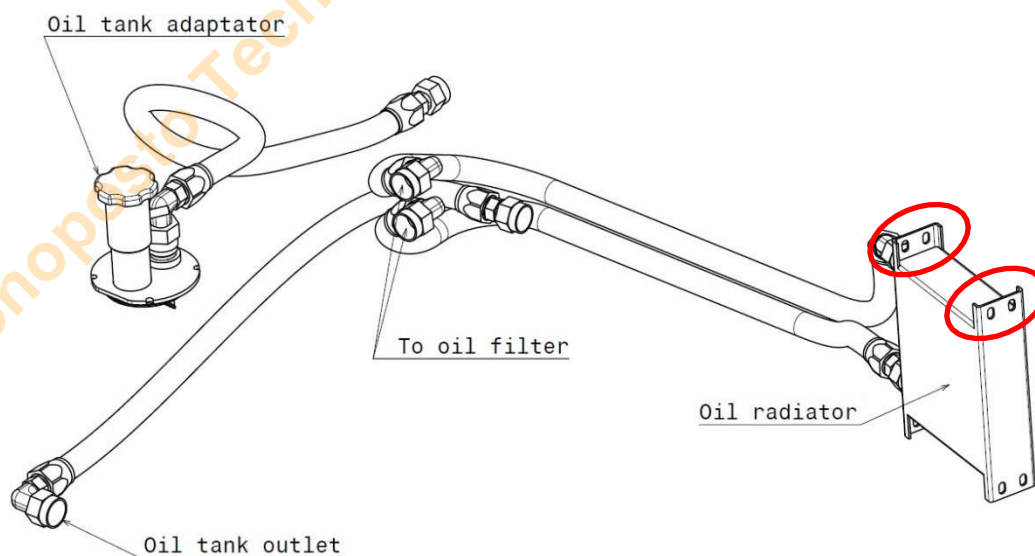
Warning: The right radiator cap must not be used to bleed the circuit. It is highly recommended to not dismount it. The radiator is delivered in spare part with the cap already assembled. Anyway, it must be manipulated carefully as the thread in the radiator is fragile. When mounting the cap, it is recommended to use sealing paste and tight moderately.

4.20.2 HEADER TANK CIRCUIT



Mygale is making available, metal T connectors (F.41.20.182) to be used in the water circuit as picture above, in the red circle.

4.20.3 OIL CIRCUIT

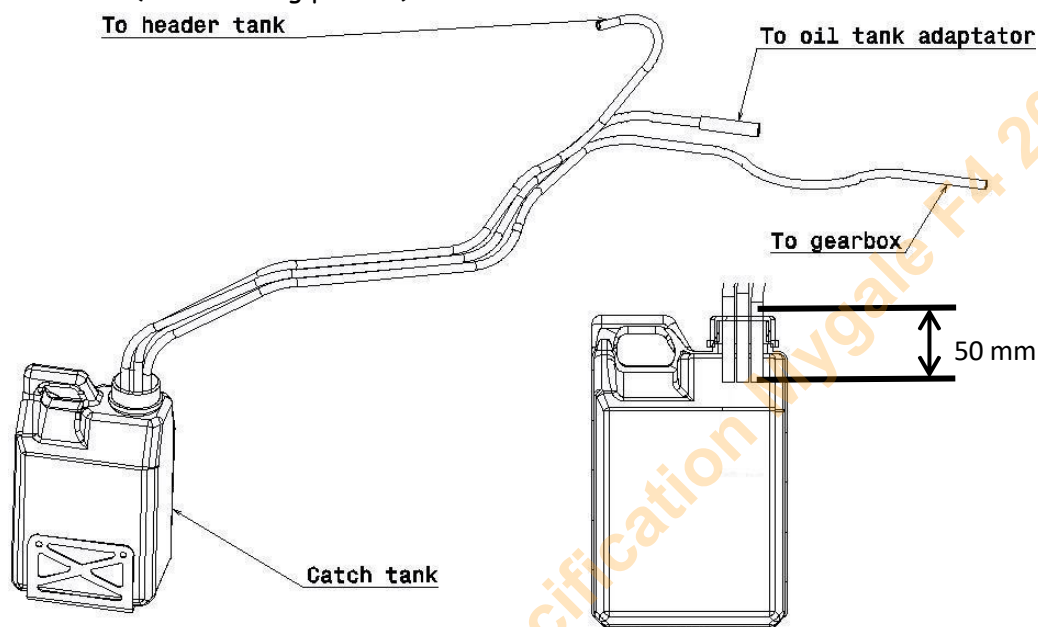


Note: The two extensions surrounded in red on the picture can be cut by the team.

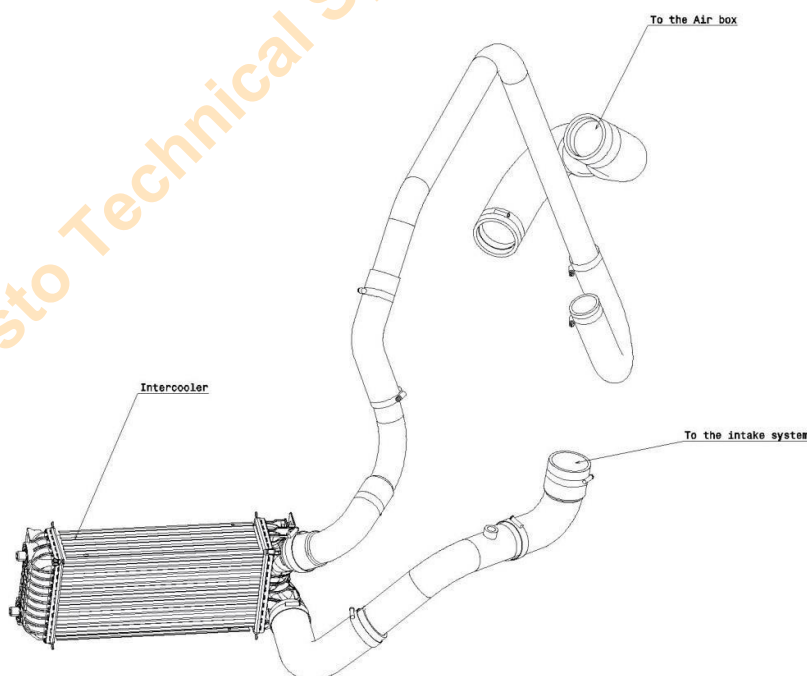
4.20.4 CATCH TANK

A catch tank is fitted in the car with its bracket, on the monocoque rear face.

To avoid any risk of water return in the gearbox oil due to pressure differential and to damage the gearbox, ensure that the catch tank hoses do not end at the bottom of the catch tank. The recommended position of hoses is 50 mm inside the catch tank, and fitted with collars or rislan to block the movement (see following picture).



4.20.5 AIR CIRCUIT

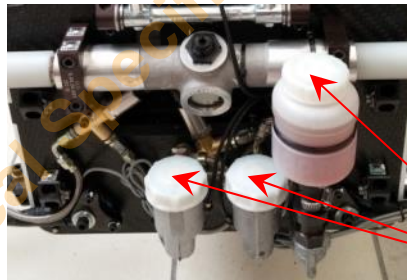
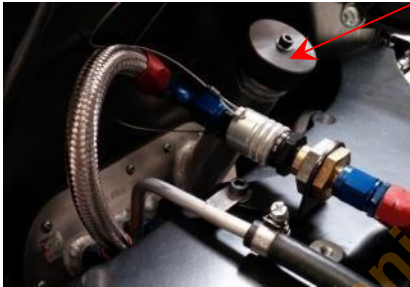


In order to make the mounting easier, it is allowed to cut or adjust the length of silicone hoses

4.21 FILLING FLUIDS

The recommended quantities must always be respected.

Designation	Quality	Quantity
Engine Oil	For the oil grade, please refer to the Engine user manual or contact the engine builder.	6 L
Gear box Oil	Motul 75W140	1.5 L
Water cooling	Anti-freeze	5 L (50% extract - 50% water)
Brake fluid / Clutch release fluid	Recommended Castrol SRF	2 L *
Fuel	For the fuel specification, please refer to the Engine user manual or contact the engine builder.	48 L



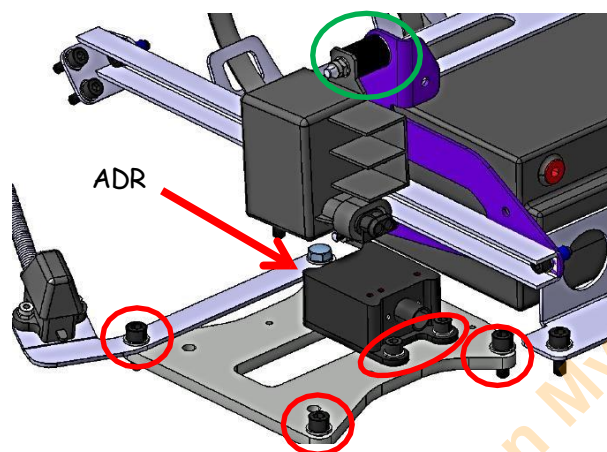
* +0.5L more to consider for the bleeding process

⚠ When racing in very wet and humid condition, it is highly recommended to replace regularly some fluids, particularly brake and clutch fluids to avoid corrosion.

4.22 ACCIDENT DATA RECORDER

An ADR (Accident Data Recorder) must be fitted in the car. This ADR can be mounted with its bracket under the extractable seat in front of the battery, as explained on the following picture.

The assembly of the ADR and the bracket in the monocoque must be made without rubber washers between these parts.



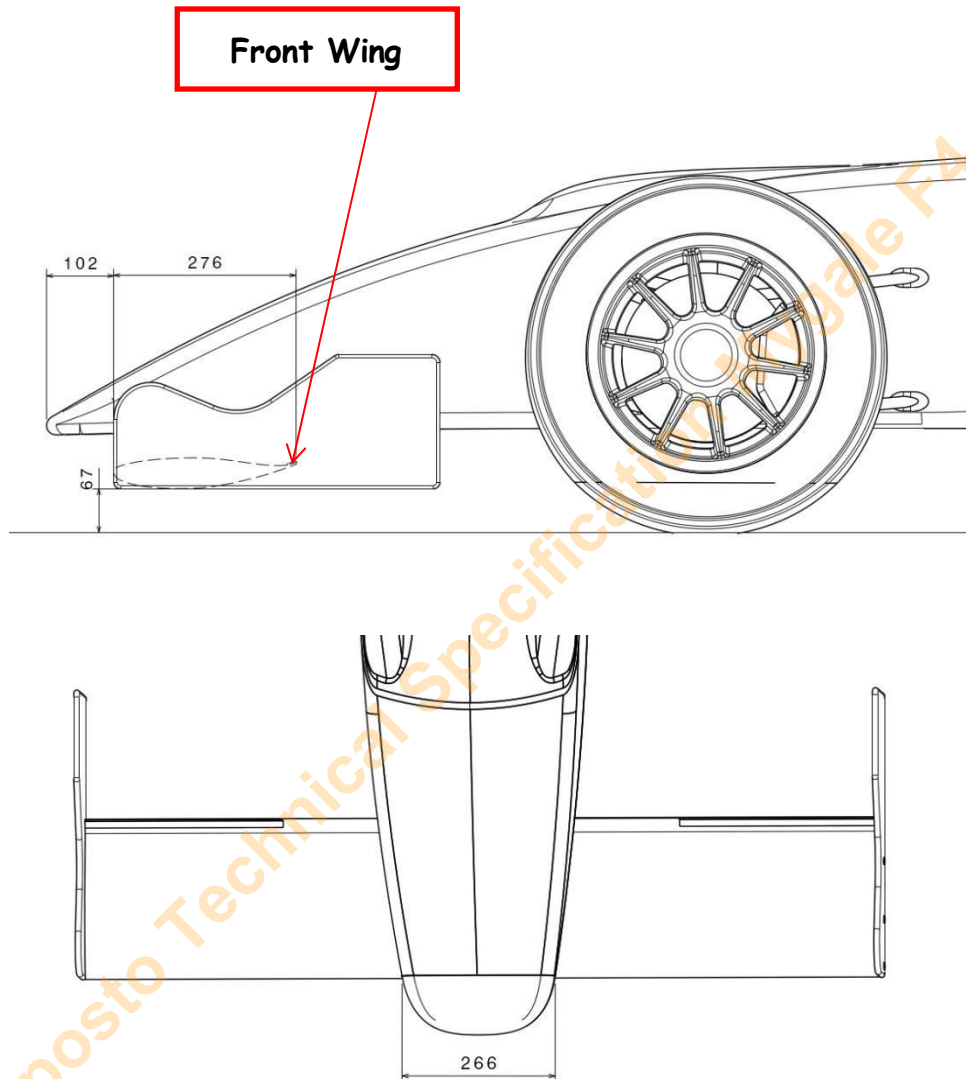
To make sure that your installation is correct, check the Technical Bulletin F41-21-BT-05-Vibration-V1. Mygale advises the use of rubber washer as silent blocks (F.41.20.109) on the master switch and in the contactor to avoid potential vibration issues. The green circles in the picture above shows the position of these rubber washers. For more information about the new installation of the Master Switch, please check the Technical Bulletin F41-21-BT-11-Master Switch Bracket-V2.

4.23 EXPLOITATION TOOLS

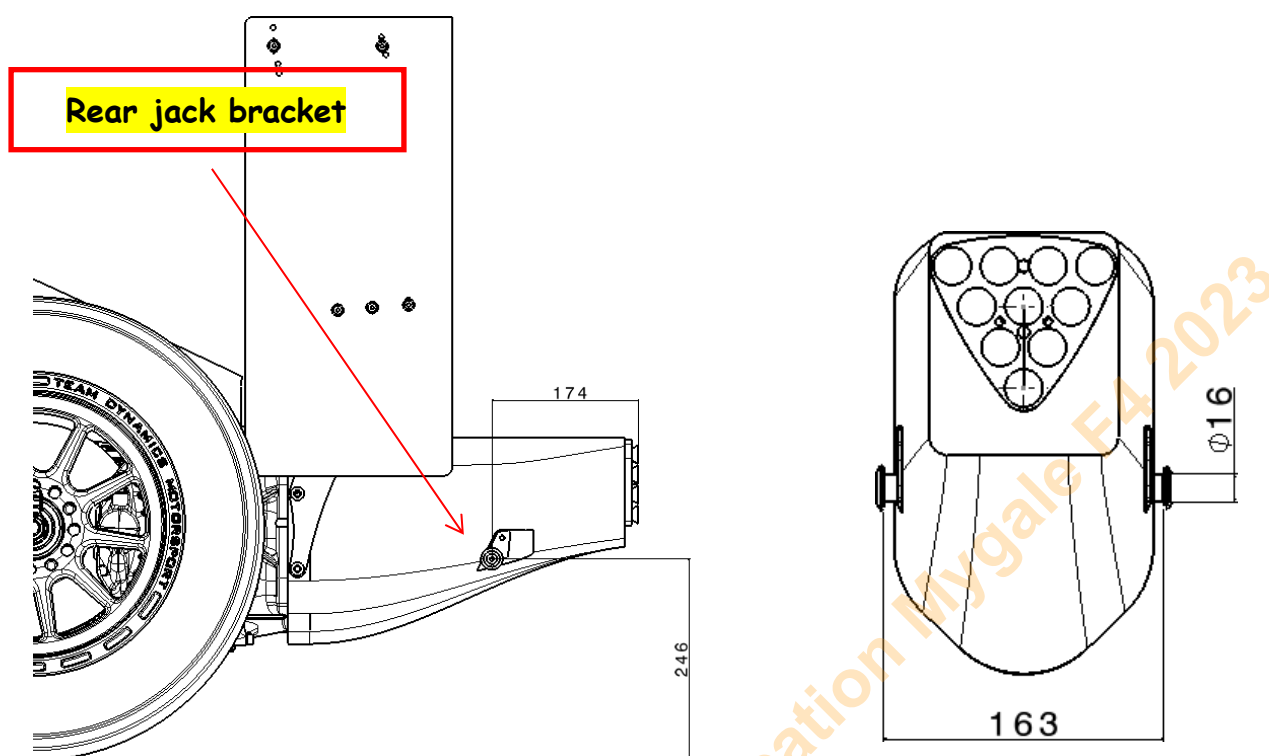
4.23.1 JACK BAR

About the teams who want to build their own jack bar, Mygale provides some dimensions to them.

FRONT DIMENSIONS



REAR DIMENSIONS

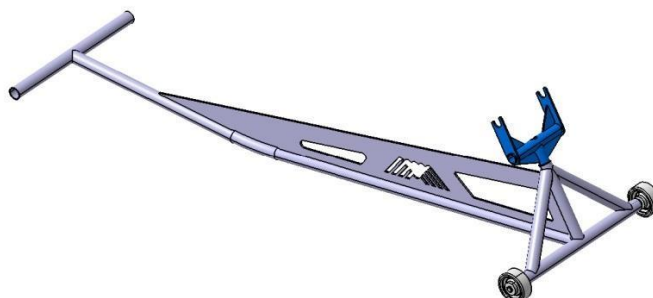


Mygale also proposes its own jack bars. These ones are available on the spare parts catalogue:

Front jack bar (F.41.35.008)



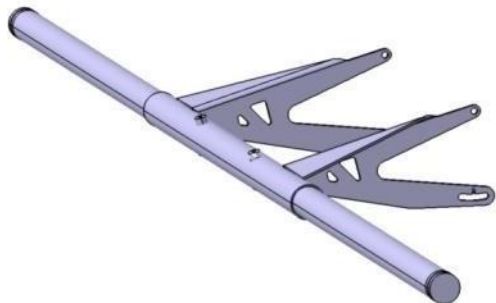
Rear jack bar evo (F.41.35.245)



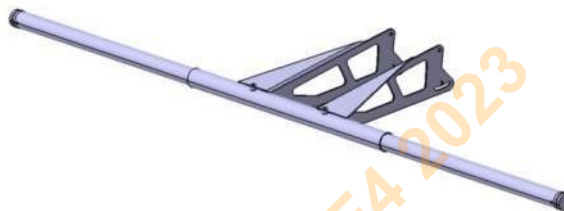
4.23.2 SET UP TOOLS

Some basic set-up tools are for sale on the spare parts catalogue. Tools to adjust parallelism are available:

Front parallelism bar (F.41.35.026)

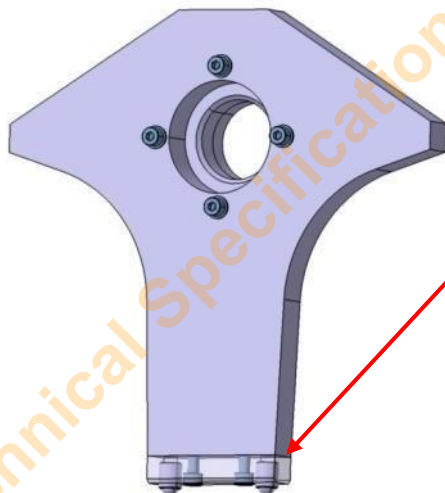


Rear parallelism bar (F.41.35.521)



We also propose false wheels which help you to set your car. The height of this part is adjustable so as to simulate your real wheel.

False wheel (F.41.35.066)



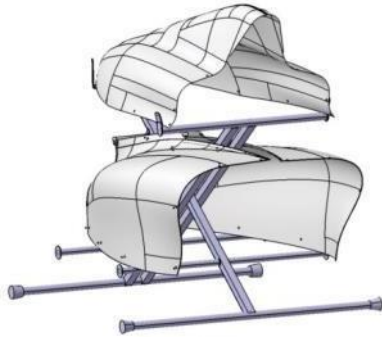
Height adjusters
can be inserted
there

The references of the adjusters are: - 1mm adjuster: F.41.35.032
- 2 mm adjuster: F.41.35.035
- 3 mm adjuster: F.41.35.033

4.23.3 VARIOUS TOOLS

Mygale is able to propose useful tools like:

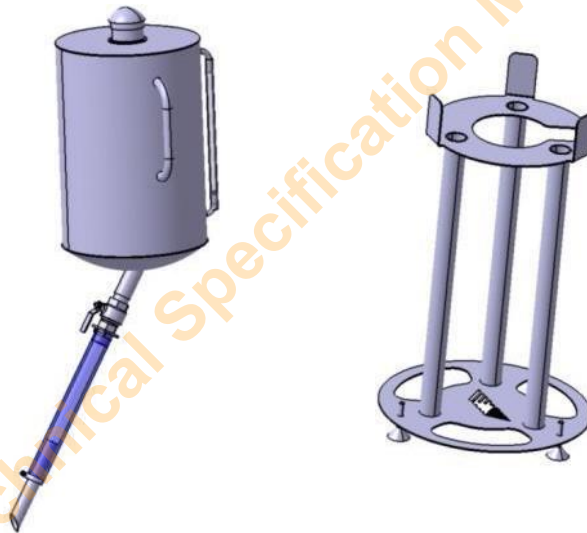
Body support trestles (F.41.35.054)



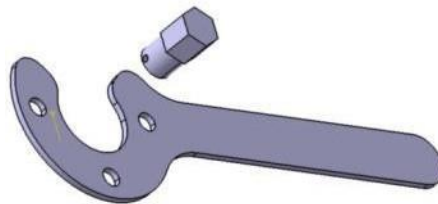
Steering wheel support (F.41.35.127)



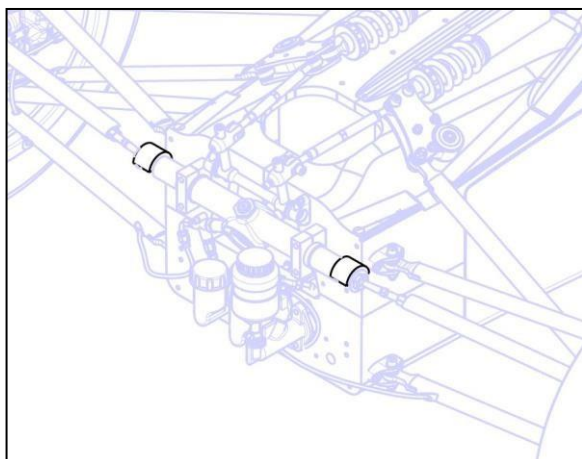
Fuel filler cask (F.41.35.105) and its support (F.41.35.110)



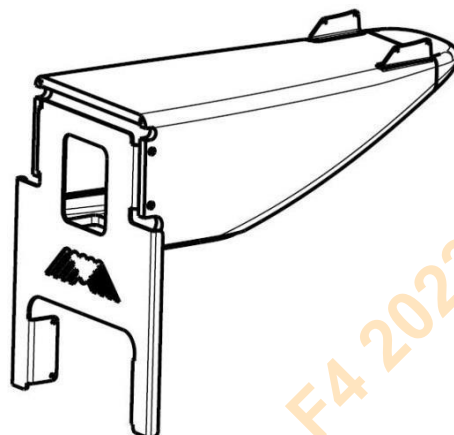
Holding key (F.41.35.060) and socket to fix your wheels studs (F.41.35.124)



Steering rack stops (F.41.35.064)



Crashbox support for transportation (F.41.35.231)



Monoposto Technical Specification Mygale F4 2023

5.0 ANNEXES

5.1 TIGHTENING TORQUES (GENERAL)

General guideline for tightening torques for steel bolts:

METRIC				
Coarse Thread Bolt				
		8.8	10.9	12.9
Thread	Pitch	Torque	Torque	Torque
		Nm	Nm	Nm
M4	0.7	2.5	3.5	4.2
M5	0.8	4.9	6.9	8.3
M6	1	8.4	11.9	14
M8	1.25	20	28	34
M10	1.5	40	55	65
M12	1.75	70	100	115
M14	2	110	150	180
Fine Thread Bolt				
		8.8	10.9	12.9
Thread	Pitch	Torque	Torque	Torque
		Nm	Nm	Nm
M8	1.0	22	30	36
M10	1.0	44	62	75
M10	1.25	42	59	72
M12	1.25	75	105	130
M12	1.5	70	100	120
M14	1.5	120	170	200
M16	1.5	180	250	300
M18	1.5	260	370	440
M20	1.5	360	510	610
IMPERIAL				
		Grade 5	Grade 8	
Thread	Pitch	Torque	Torque	
		Lbs-ft.	Lbs-ft.	
1/4	28 TPI	7	10	
5/16	24 TPI	14	20	
3/8	24 TPI	25	35	
7/16	20 TPI	40	55	
1/2	20 TPI	60	85	
9/16	18 TPI	85	120	
5/8	18 TPI	120	170	

These values should be used where a different torque value is not specified.

This data refer to a friction coefficient = 0.1 (lubricated). For different friction values the data can change considerably. For example, considering a friction of 0.14 the preload will decrease by about 7% while the torque force will increase about 25%.

Conversion factors:

- Lbs-ft. x 1.356 = Nm
- Nm x 0.7376 = Lbs-ft.

5.2 TIGHTENING TORQUES (F4 MOUNTING):

TIGHTENING TORQUES

Designation	Size	Tightening torque			Notes
		N.m (x9.81)	m.Kg	Lb.Ft (x par 7.246)	

Wheel - Suspension - Upright

Wheel nut	20 x 1.00	200	20.4	147.5	Loctite
Wheel peg	12 x 1.5	115	11.7	85	
Wheel bearing	12 x 1.5	115	11.7	85	
Rocker bolts	10 x 1.5	65	6.6	48	
Lower wishbone outer bearing	3/8-24 UNF	35	3.6	26	
Suspension bearings	8 x 1.25	34	3.5	25	
Suspension brackets	8 x 1.25	34	3.5	25	
Wheel cables	8 x 1.25	34	3.5	25	

Gear box / clutch / Bell housing

Clutch	8 x 1.25	34	3.5	25	
Bell housing lower	12 x 1.75	115	11.7	85	
Bell housing upper	10 x 1.5	65	6.6	48	
Gearbox	10 x 1.5	65	6.6	48	

Brake

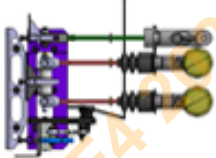
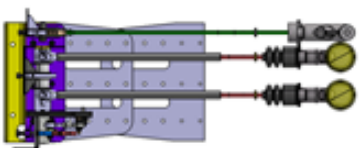
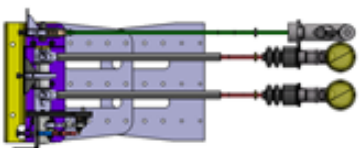
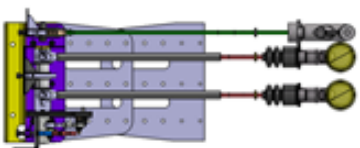
Calliper bolt	10 x 1.5	70	7.1	52	
---------------	----------	----	-----	----	--

Engine

Lower engine fitting	10 x 1.5	45	4.6	33.2	
Upper engine fitting	8 x 1.25	25	2.6	18.5	

5.3 POSITIONS OF ADJUSTABLE PEDAL BOX:

F4 - Positions of adjustable pedal box (kit F.41.11.077.C)

Positio n	Distanc e	Functio n	Push rod	Rod prolongato	Kit small	Images
P1	0	Brakes	F.41.11.088.B L175 - Brakes - P1			
		Clutch	F.41.11.089.B L165 - Clutch - P1			
P2	34	Brakes	F.41.11.090.B L210 - Brakes - P2			
		Clutch	F.41.11.091.B L200 - Clutch - P2			
P3	68	Brakes	F.41.11.092.B L245 - Brakes - P3			
		Clutch	F.41.11.093.B L235 - Clutch - P3			
P4	102	Brakes	F.41.11.094.B L150 - Brakes - P4-9	F.41.11.020.C P4		
		Clutch	F.41.11.098.B L265 - Clutch - P4			
P5	136	Brakes	F.41.11.094.B L150 - Brakes - P4-9	F.41.11.021.C P5		
		Clutch	F.41.11.099.B L300 - Clutch - P5			
P6	170	Brakes	F.41.11.094.B L150 - Brakes - P4-9	F.41.11.104.A L198 - P6	x	
		Clutch	F.41.11.100.B L335 - Clutch - P6			
P7	204	Brakes	F.41.11.094.B L150 - Brakes - P4-9	F.41.11.105.A L232 - P7	x	
		Clutch	F.41.11.101.B L370 - Clutch - P7			
P8	238	Brakes	F.41.11.094.B L150 - Brakes - P4-9	F.41.11.106.A L266 - P8	x	
		Clutch	F.41.11.102.B L405 - Clutch - P8			
P9	272	Brakes	F.41.11.094.B L150 - Brakes - P4-9	F.41.11.061.A L300 - P9	x	
		Clutch	F.41.11.103.B L435 - Clutch - P9			

COMPONENTS LIFE CYCLE AND GUARANTEE

The components of this vehicle have a limited life cycle and it returns to the holder to assure the maintenance and checking. The maximum mileage of the parts is set to one season (tests and races), and after this period, Mygale recommends to replace all the parts exposed to a possible fatigue weakening.

It is strongly recommended to replace all the parts that could be affected / damaged after a major crash or accident.

The wear parts have to be replaced according to the holder's appreciation.

Moreover, all the "competition" parts cannot be covered by any contractual guarantee.

MYGALE CONTACT LIST

Web site: www.mygale.fr

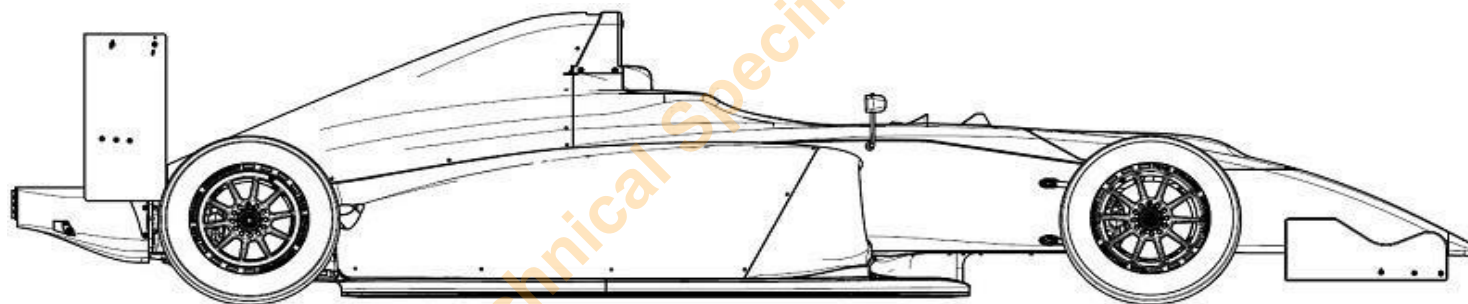
Parts sales: spareparts@mygale.fr

Technical information: engineering@mygale.fr

Telephone: +33 (0)386 21 86 21

Fax : +33 (0)386 21 86 22

F4 BRITISH CHAMPIONSHIP CERTIFIED BY FIA - POWERED BY FORD PARTS CATALOGUE

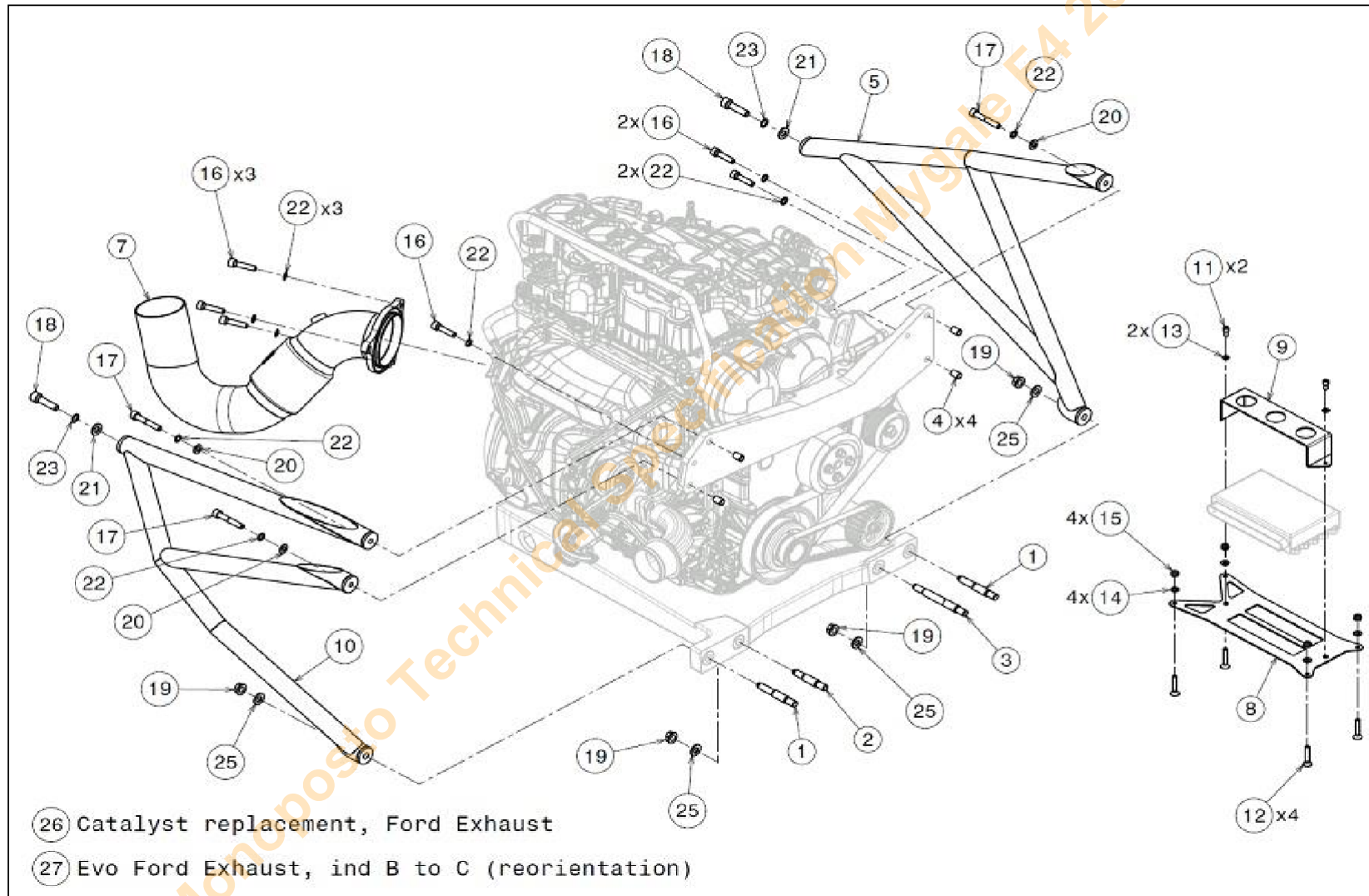


Monoposto Technical Specification Mygale F4 2023

SUMMARY

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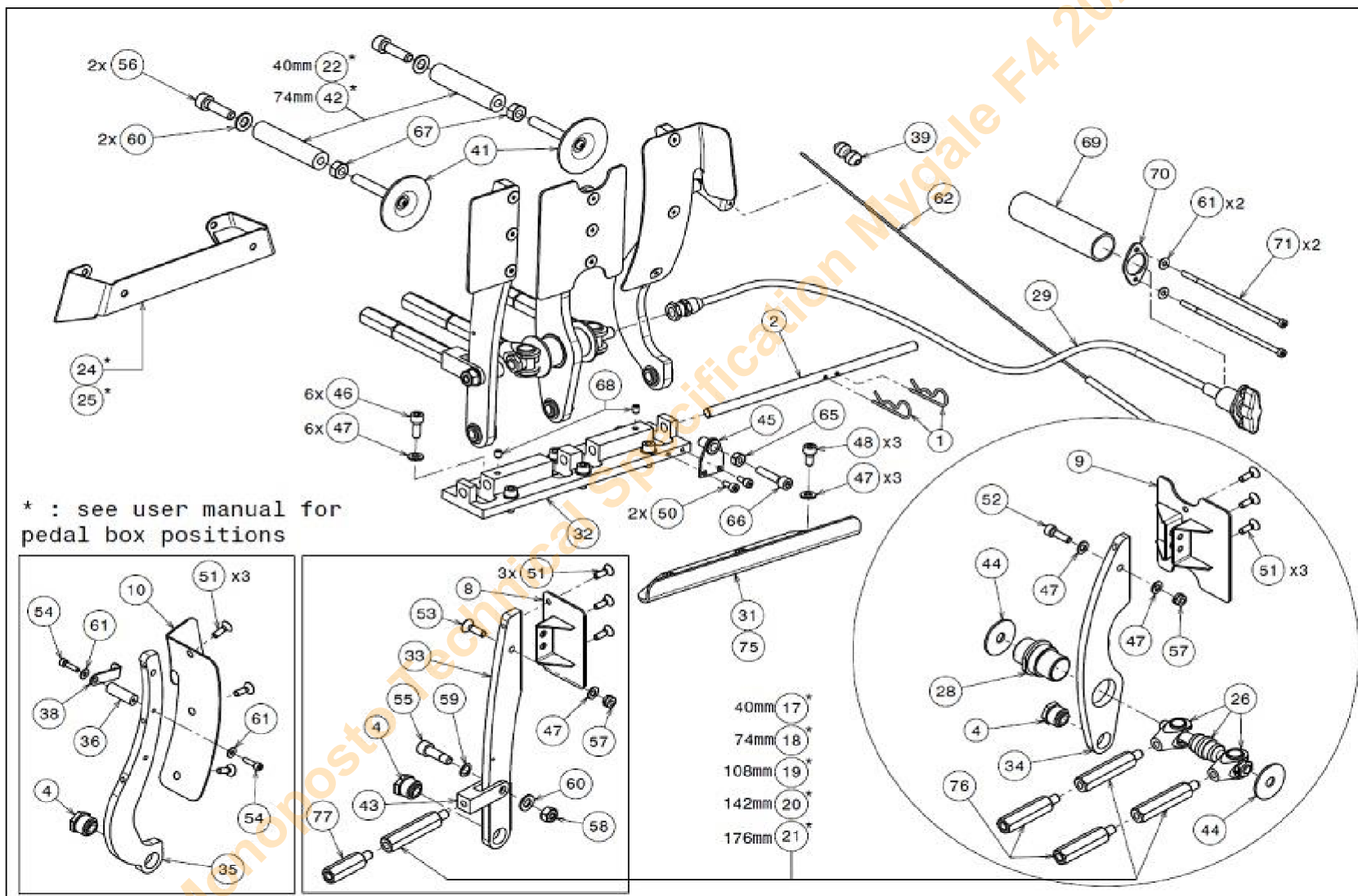
10.01 Engine equipment Ford



10.01 Engine equipment Ford

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.10.088	Lower engine stud, outer, Ford engine	2	x	1
2	F.41.10.089	Lower engine stud, right inside, Ford engine	1	x	1
3	F.41.10.090	Lower engine stud, left inside, Ford engine	1	x	1
4	F.41.10.091	Dowel, monocoque-engine bracket	4	x	1
5	F.41.10.069	Engine frame, Ford engine, left	1	x	1
7	F.41.10.094	Exhaust, Ford engine	1	x	1
8	F.41.21.075	ECU support	1	x	1
9	F.41.21.076	Bridge, ECU support	1	x	1
10	F.41.10.070	Engine frame, Ford engine, right	1	x	1
11	AVM01.05.0012	Screw CHC M5x12 cl 12.9	2	x	3
12	AVM04.06.0035	Screw TFHC M6x35 cl 10.9	4	x	3
13	ARO06.05.0001	Washer small Ø5 ZnBl	2	x	3
14	ARO06.06.0001	Washer small Ø6 ZnBl	4	x	3
15	AEM01.06.0001	Nylstop nut M6 ZnBl	4	x	3
16	AVM01.08.0035	Screw CHc M8x35 cl 12.9	6	x	3
17	AVM01.08.0050	Screw CHC M8x50 cl 12.9	3	x	3
18	AVM01.10.0040	Screw CHC M10x40 cl 12.9	2	x	3
19	AEM06.10.0001	K-nut M10	4	x	3
20	ARO06.08.0001	Washer small Ø8 ZnBl	3	x	3
21	ARO06.10.0001	Washer small Ø10 ZnBl	2	x	3
22	ARO13.08.0001	Washer Schnorr Ø8	9	x	3
23	ARO13.10.0001	Washer Schnorr Ø10	2	x	3
25	ARO02.10.0001	Plate medium washer Ø10x22	4	x	3
26	F.41.10.115	Catalyst replacement, Ford Exhaust	1	Repair	1
27	F.41.10.142	Evo Ford Exhaust, ind B to D (reorientation)	1	Repair	1

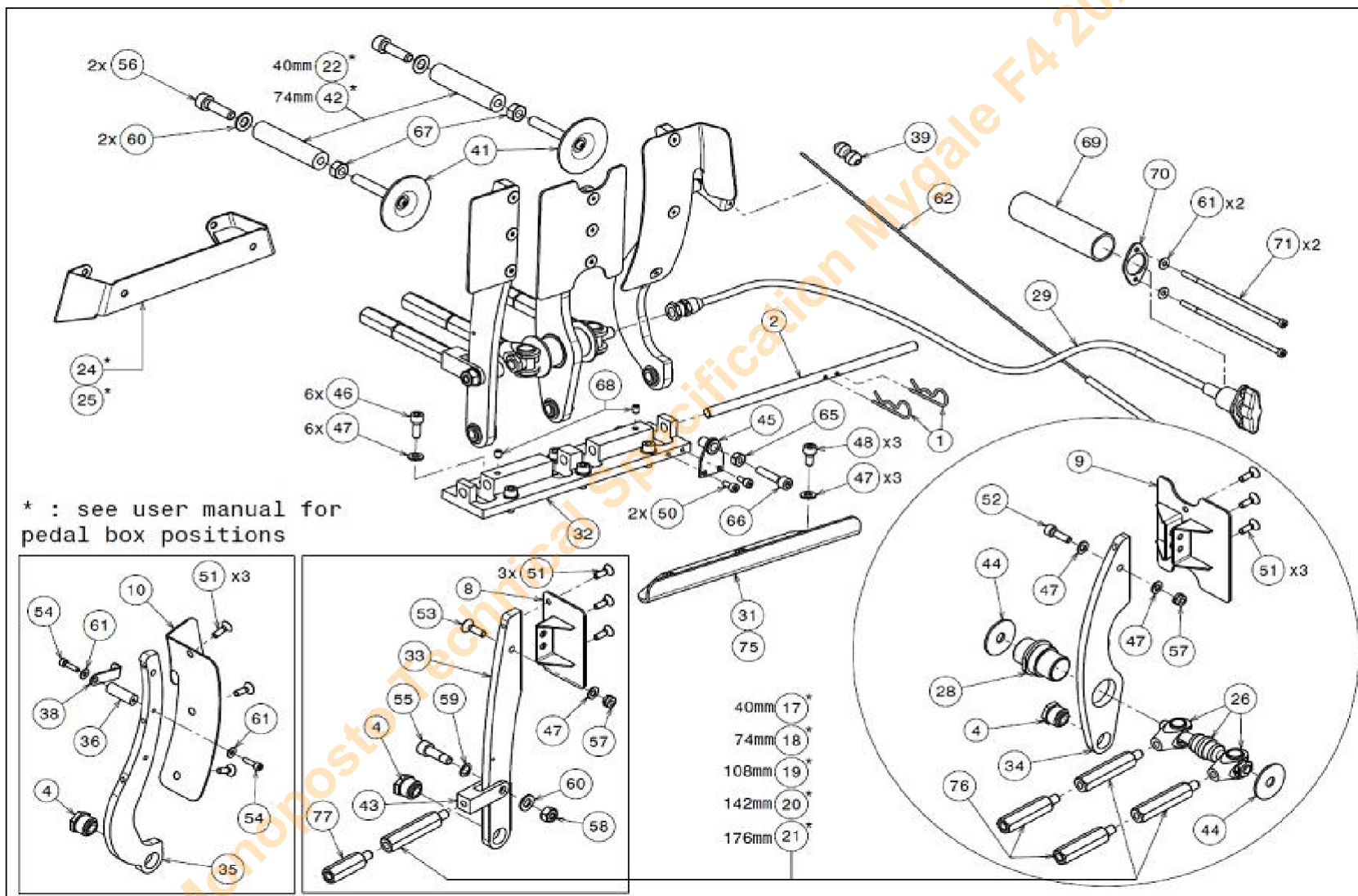
11.01 Pedal box



11.01 Pedal box

N°	Reference	Description	Qty	STD / Opt	Type
1	AGO02.02.0001	Beta Pin Ø2 White Plated	2	x	3
2	F.41.11.002	Pedal box shaft	1	x	1
4	F.41.11.007	Sleeve nut, pedal box	3	x	1
8	F.41.11.024	Clutch pedal rest	1	x	2
9	F.41.11.026	Brake pedal rest	1	x	2
10	F.41.11.003	Throttle pedal rest	1	x	3
17	F.41.11.017	Master cylinder rod prolongator (setting 1)	3	Option	1
18	F.41.11.018	Master cylinder rod prolongator (setting 2)	3	x	1
19	F.41.11.019	Master cylinder rod prolongator (setting 3)	3	Option	1
20	F.41.11.020	Master cylinder rod prolongator (setting 4)	3	Option	1
21	F.41.11.021	Master cylinder rod prolongator (setting 5)	3	Option	1
22	F.41.11.029	Short spacer pedal stop	2	Option	1
24	F.41.11.031	Short pedal stop rest	1	Option	2
25	F.41.11.032	Long pedal stop rest	1	Option	2
26	F.41.11.009	Brake bias	1	x	1
28	F.41.11.011	Sleeve nut, brake bias	1	x	1
29	F.41.11.043	Brake bias cable	1	x	1
31	F.41.11.045	Foot wedge	1	x	3
32	F.41.11.047	Pedal board support	1	x	1
33	F.41.11.055	Clutch pedal	1	x	1
34	F.41.11.048	Brake pedal	1	x	1
35	F.41.11.050	Throttle pedal	1	x	1
36	F.41.11.053	Spacer throttle pedal 29mm	1	x	1
38	F.41.11.051	Throttle cable fixing	1	x	1
39	ACA.06.04.0001	Cable clamp Ø4xØ12 long26	1	x	1
41	F.41.11.054	Pedal stop	2	x	1
42	F.41.11.056	Long spacer pedal stop	2	x	1
43	F.41.11.049	Clutch pedal fork end	1	x	1

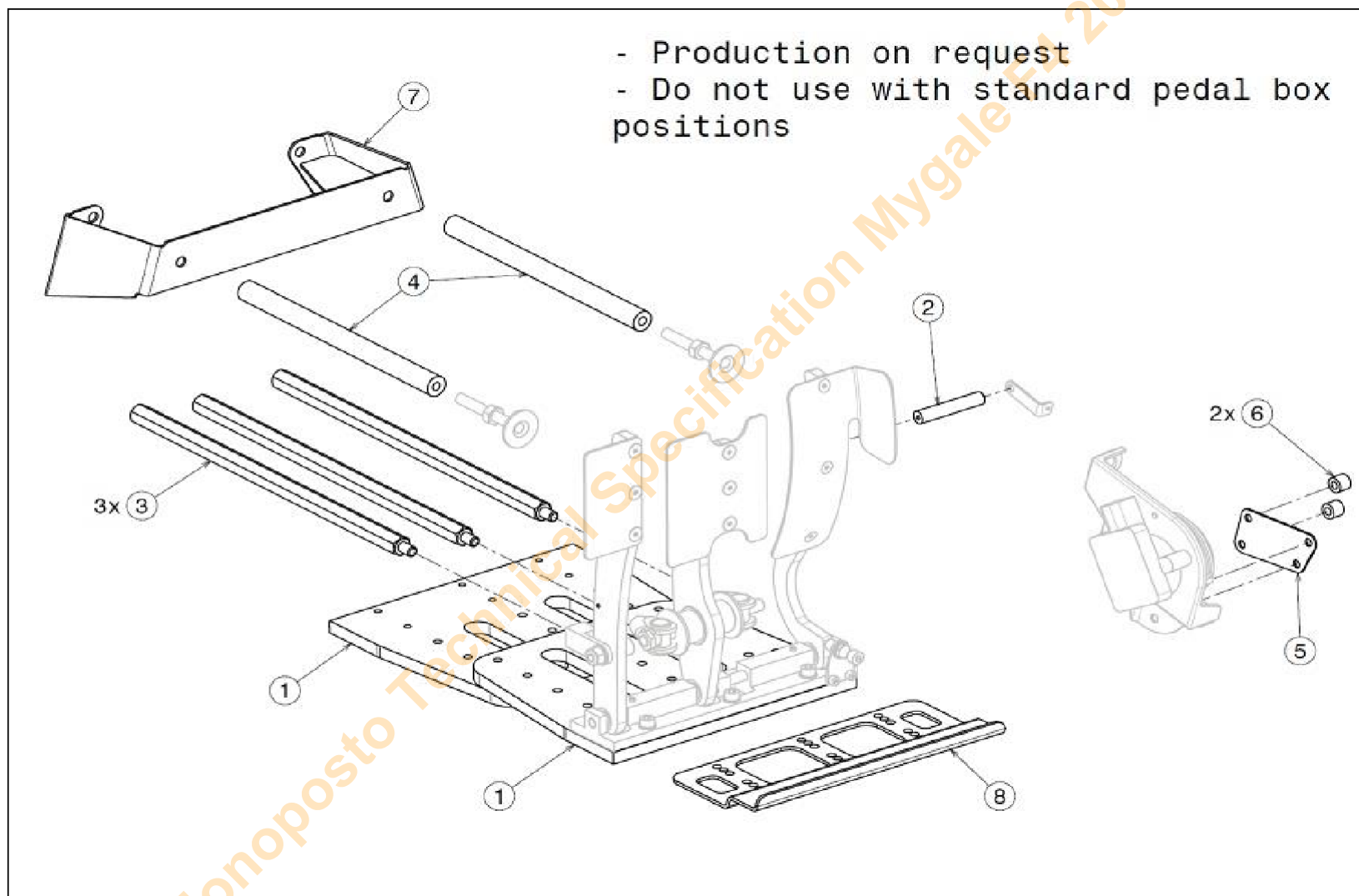
11.01 Pedal box



11.01 Pedal box

N°	Reference	Description	Qty	STD / Opt	Type
44	ARO.04.10.1001	Flat washer Ø10xØ36x2	2	x	3
45	F.41.11.052	Throttle pedal front stop	1	x	1
46	AVM01.06.0016	Screw CHC M6x16 cl 12.9	6	x	3
47	ARO06.06.0001	Washer small Ø6 ZnBl	12	x	3
48	AVM01.06.0012	Screw CHC M6x12 cl 12.9	3	Option	3
50	AVM01.04.0010	Screw CHC M4x10 cl 12.9	2	x	3
51	AVM04.05.0016	Screw TFHC M5x16 cl 10.9	9	x	3
52	AVM01.06.0020	Screw CHC M6x20 cl 12.9	1	x	3
53	AVM04.06.0020	Screw TFHC M6x20 cl 10.9	1	x	3
54	AVM01.04.0016	Screw CHC M4x16 cl 12.9	2	x	3
55	AVM01.08.4526	Screw CHC M8x45 ct 26 cl 12.9	1	x	3
56	AVM01.08.0030	Screw CHC M8x30 cl 12.9	2	x	3
57	AEM01.06.0001	Nylstop nut M6 ZnBl	2	x	3
58	AEM01.08.0001	Nylstop nut M8 ZnBl	1	x	3
59	ARO13.08.0001	Washer Schnorr Ø8	1	x	3
60	ARO06.08.0001	Washer small Ø8 ZnBl	3	x	3
61	ARO07.04.0001	Washer medium Ø4x10 ZnBl	4	x	3
62	ACA.01.06.06.2500	Accelerator cable Ø6x6 long 2.5m	1	x	2
65	AEM02.06.0001	ISO 4035 nut M6	1	x	3
66	AVM01.06.0030	Screw CHC M6x30 cl 12.9	1	x	3
67	AEM02.08.0001	ISO 4035 nut M8	2	x	3
68	AVM05.05.0006	Without Head Screw HC M5x6	2	x	3
69	F.41.11.057	Spacer, brake bias adjuster 100mm	1	x	2
70	F.41.11.072	Spacer plate, brake bias adjuster	1	x	3
71	F.41.11.073	Screw, brake bias adjuster spacer	2	x	3
75	F.41.11.063	Small driver foot wedge	1	Option	3
76	F.41.11.074	Master cylinder rod prolongator 55mm	2	x	1
77	F.41.11.075	Master cylinder rod prolongator 40mm	1	x	1

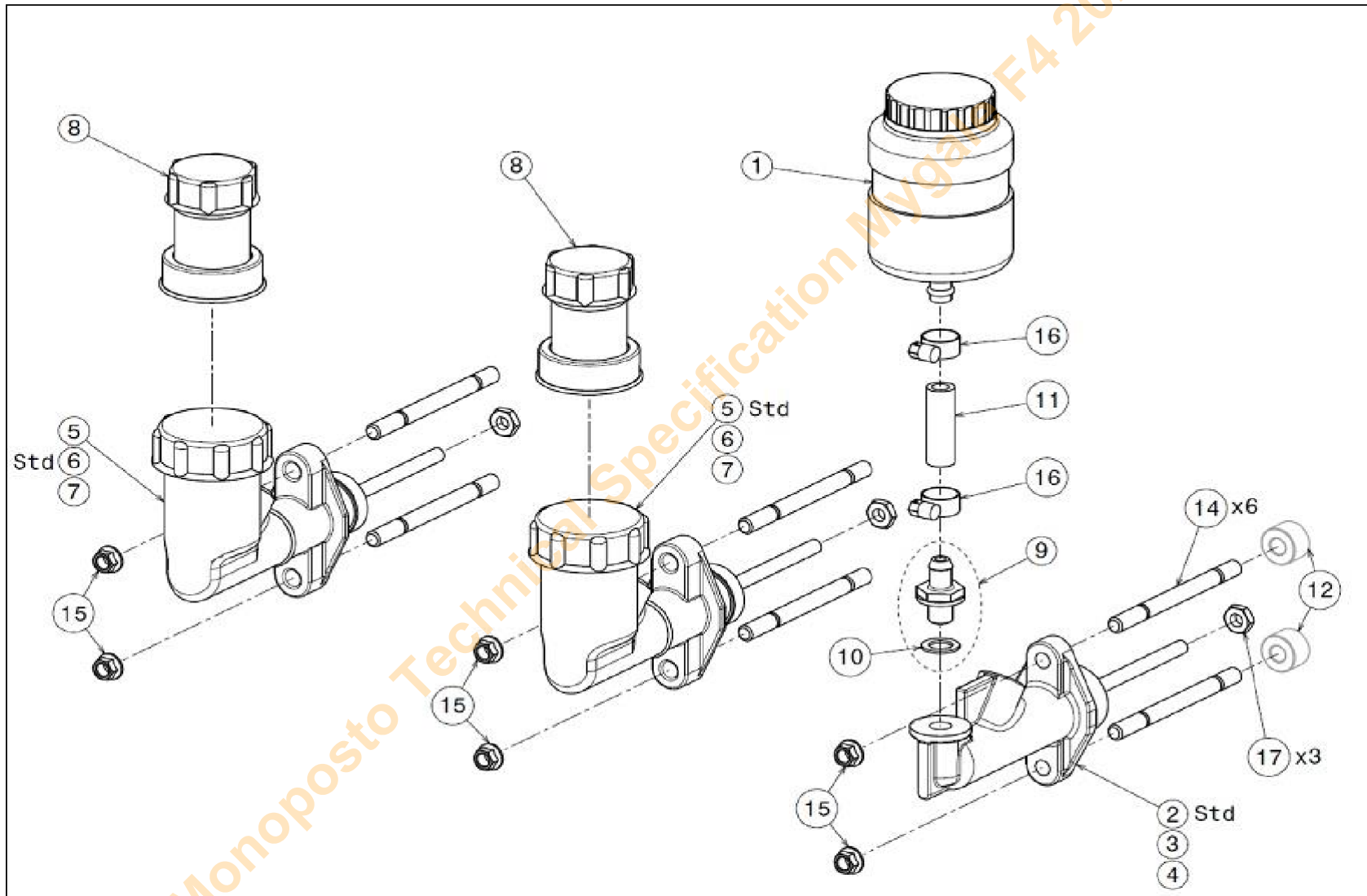
11.02 Pedal box "small driver"



11.02 Pedal box "small driver"

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.11.059	Plate, pedal box offset	2	Option	1
2	F.41.11.060	Long spacer throttle pedal 55mm	1	Option	1
3	F.41.11.061	Master cylinder rod prolongator 300mm	3	Option	1
4	F.41.11.062	Spacer pedal stop 215mm	2	Option	1
5	F.41.21.105	Bracket, throttle sensor, pedal box offset	1	Option	1
6	F.41.21.106	Bush, throttle sensor, pedal box offset	2	Option	1
7	F.41.11.032	Long pedal stop rest	1	Option	2
8	F.41.11.063	Small driver foot wedge	1	Option	3

11.03 Master cylinder assy

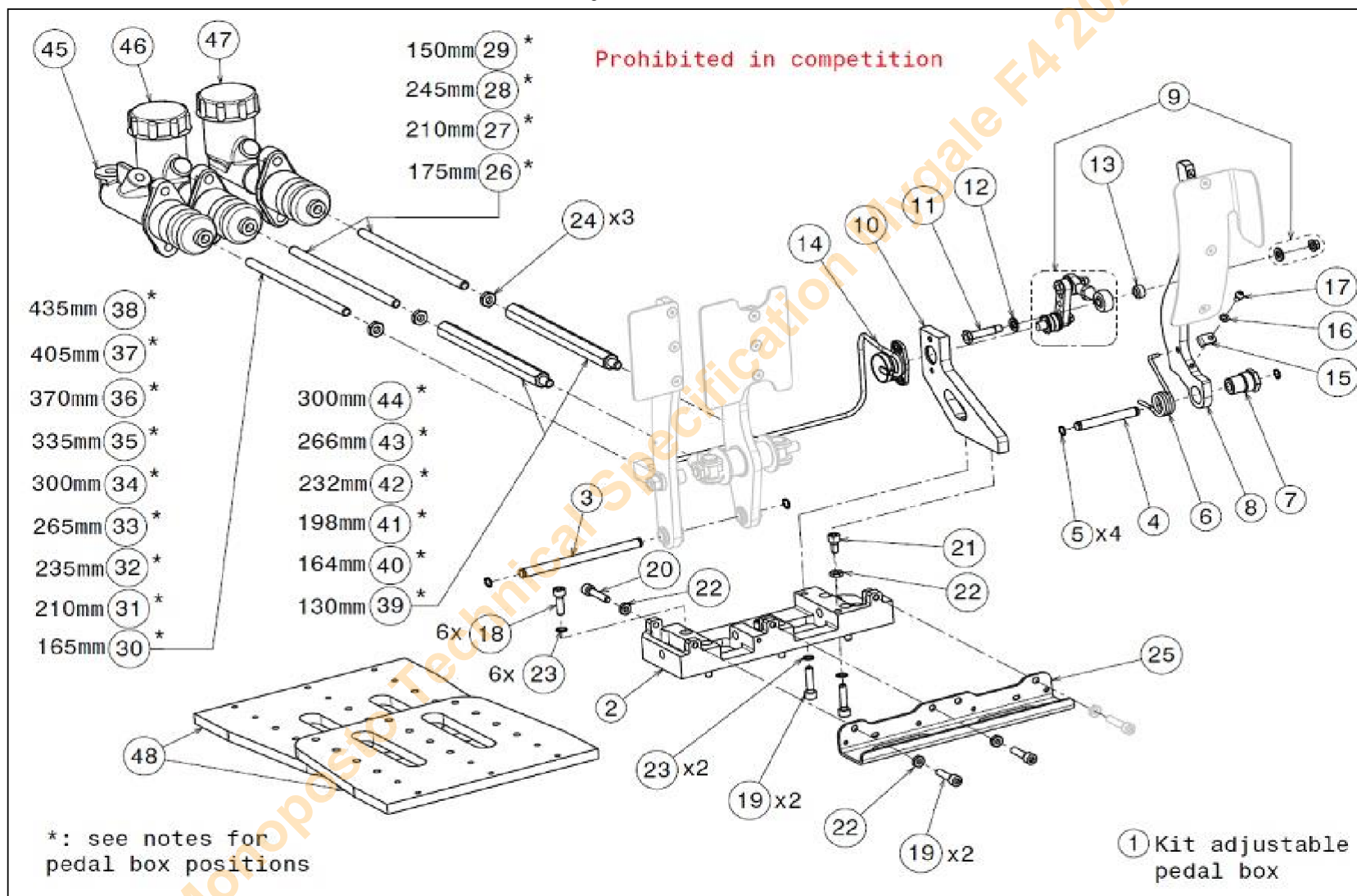


11.03 Master cylinder assy

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.12.001	Reservoir, master cylinder, clutch	1	x	1
2	F.41.12.005	Girling master cylinder 3/4 (clutch)	1	x	1
3	F.41.12.156	Girling master cylinder 5/8 (clutch)	1	Option	1
4	F.41.12.157	Girling master cylinder 0.70 (clutch)	1	Option	1
5	F.41.17.017	Brake master cylinder 3/4 with tank	1	x	1
6	F.41.17.018	Brake master cylinder 5/8 with tank	1	x	1
7	F.41.17.033	Brake master cylinder 0.70 with tank	1	Option	1
8	F.41.17.034	Extention master cylinder	2	Option	3
9	F.41.12.124	Adaptor, clutch resevoir	1	x	1
10	AJO01.04.0001	Copper Seal 7/16	1	Spare	3
11	F.41.12.026	Hose, clutch reservoir	1	x	3
12	F.41.12.055	Spacer clutch master cylinder	2	OLD	1 *
14	AGM01.08.0080	Stud UNI 5914 M8x80 cl 12.9	6	x	3
15	AEM06.08.0001	K-nut M8	6	x	3
16	ACO02.08.0016	Collar Tie Clips Ø8-16	2	x	3
17	AEF02.51.6001	Nut 5/16 UNF ZnBI	3	x	3

*OLD: Before Safety kit 2018 update

11.04 Adjustable pedal box

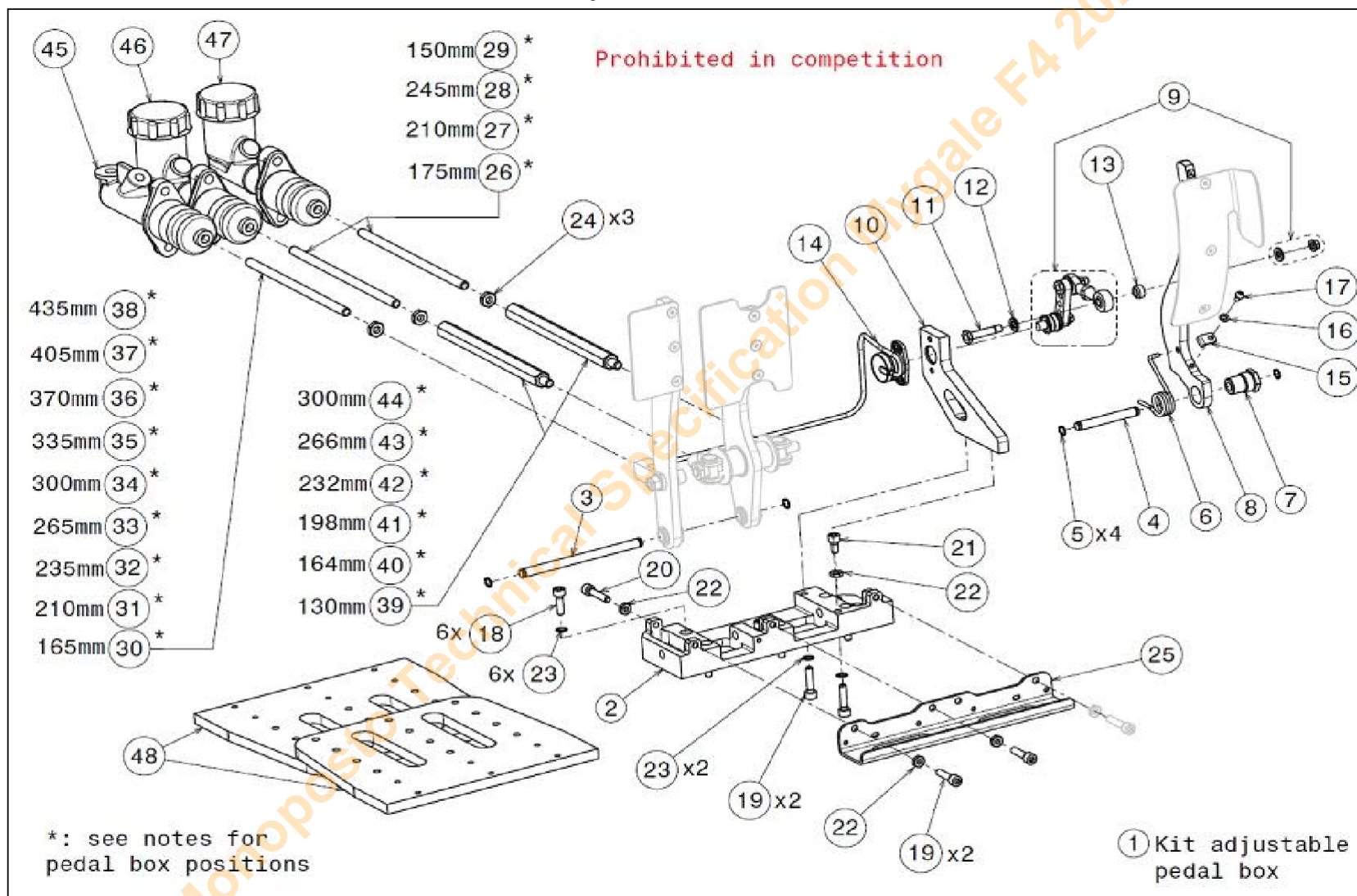


11.04 Adjustable pedal box

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.11.077	Kit adjustable pedal box	1	Option	1
2	F.41.11.079	Support, adjustable pedal box	1	Option	1
3	F.41.11.083	Shaft, adjustable pedal box	1	Option	1
4	F.41.11.084	Shaft, throttle pedal	1	Option	1
5	ACI02.08.0001	External Circlips $\varnothing 8$ DIN 471	4	Option	3
6	F.41.11.114	Spring, throttle pedal V2	1	Option	1
7	F.41.11.080	Sleeve nut, throttle pedal	1	Option	1
8	F.41.11.081	Throttle pedal, adjustable pedal box	1	Option	1
9	F.31.11.101	Kit support capteur pedale	1	Option	1
10	F.41.11.085	Bracket, throttle pedal sensor	1	Option	1
11	AVN01.04.0016	NAS bolt 1/4 UNF dash 16	1	Option	3
12	ARO26.01.0402	NAS washer 1/4 thick chamfered	1	Option	3
13	F.41.11.096	Spacer, throttle sensor lever	1	Option	1
14	F.41.21.157	Rotative throttle pedal sensor	1	Option	1
15	F.41.11.082	Pedal spring retainer	1	Option	1
16	ARO06.04.0001	Washer small $\varnothing 4$ ZnBI	1	Option	3
17	AVM03.04.0008	Screw TBHC M4x08 cl 12.9	1	Option	3
18	AVM01.06.0020	Screw CHC M6x20 cl 12.9	6	Option	3
19	AVM01.06.0025	Screw CHC M6x25 cl 12.9	4	Option	3
20	AVM01.06.0030	Screw CHC M6x30 cl 12.9	1	Option	3
21	AVM02.06.0012	Screw hexagon Head M6x12 cl 12.9	1	Option	3
22	AEM02.06.0001	ISO 4035 nut M6	4	Option	3
23	ARO13.06.0001	Schnorr washer $\varnothing 6$	8	Option	3
24	AEF02.51.6001	Nut 5\16 UNF ZnBI	3	Option	3
25	F.41.11.113	Foot wedge, adjustable pedal box	1	Option	3
26	F.41.11.088	Push rod L175 - Brake - P1	2	Option	1
27	F.41.11.090	Push rod L210 - Brake - P2	2	Option	1
28	F.41.11.092	Push rod L245 - Brake - P3	2	Option	1

* Prohibited in competition

11.04 Adjustable pedal box

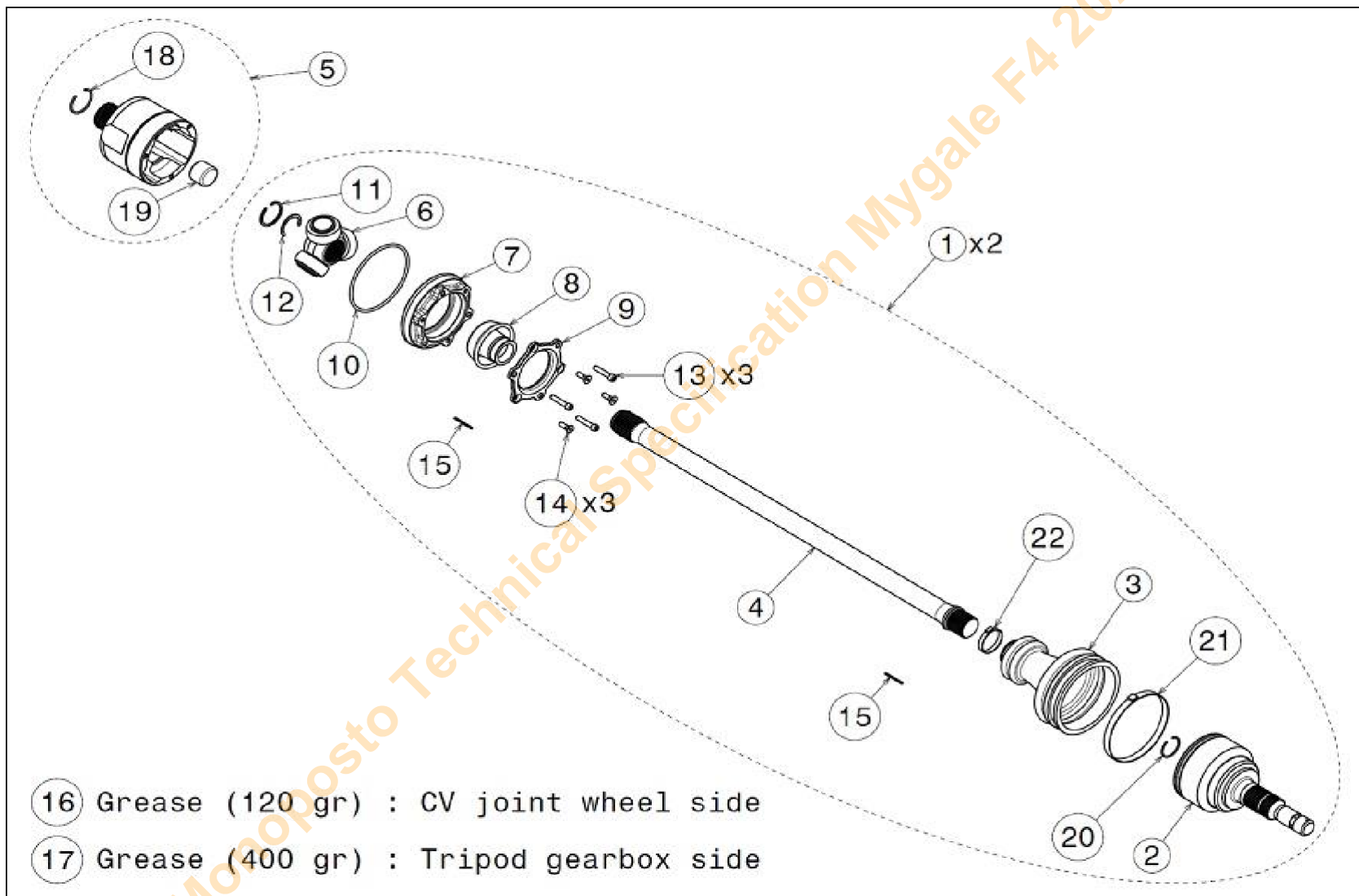


11.04 Adjustable pedal box

N°	Reference	Description	Qty	STD / Opt	Type
29	F.41.11.094	Push rod L150 - Brake - P4 to P9	2	Option	1
30	F.41.11.089	Push rod L165 - Clutch - P1	1	Option	1
31	F.41.11.091	Push rod L200 - Clutch - P2	1	Option	1
32	F.41.11.093	Push rod L235 - Clutch - P3	1	Option	1
33	F.41.11.098	Push rod L265 - Clutch - P4	1	Option	1
34	F.41.11.099	Push rod L300 - Clutch - P5	1	Option	1
35	F.41.11.100	Push rod L335 - Clutch - P6	1	Option	1
36	F.41.11.101	Push rod L370 - Clutch - P7	1	Option	1
37	F.41.11.102	Push rod L405 - Clutch - P8	1	Option	1
38	F.41.11.103	Push rod L435 - Clutch - P9	1	Option	1
39	F.41.11.020	Master cylinder rod prolongator (P4)	2	Option	1
40	F.41.11.021	Master cylinder rod prolongator (P5)	2	Option	1
41	F.41.11.104	Master cylinder rod prolongator L198 - P6	2	Option	1
42	F.41.11.105	Master cylinder rod prolongator L232 - P7	2	Option	1
43	F.41.11.106	Master cylinder rod prolongator L266 - P8	2	Option	1
44	F.41.11.061	Master cylinder rod prolongator 300mm (P9)	2	Option	1
45	F.41.11.108	Master cylinder 3/4 without tank NC	1	Option	1
46	F.41.11.111	Master cylinder 3/4 with tank NC	1	Option	1
47	F.41.11.112	Master cylinder 5/8 with tank NC	1	Option	1
48	F.41.11.059	Plate, pedal box offset	2	Option	1

* Prohibited in competition

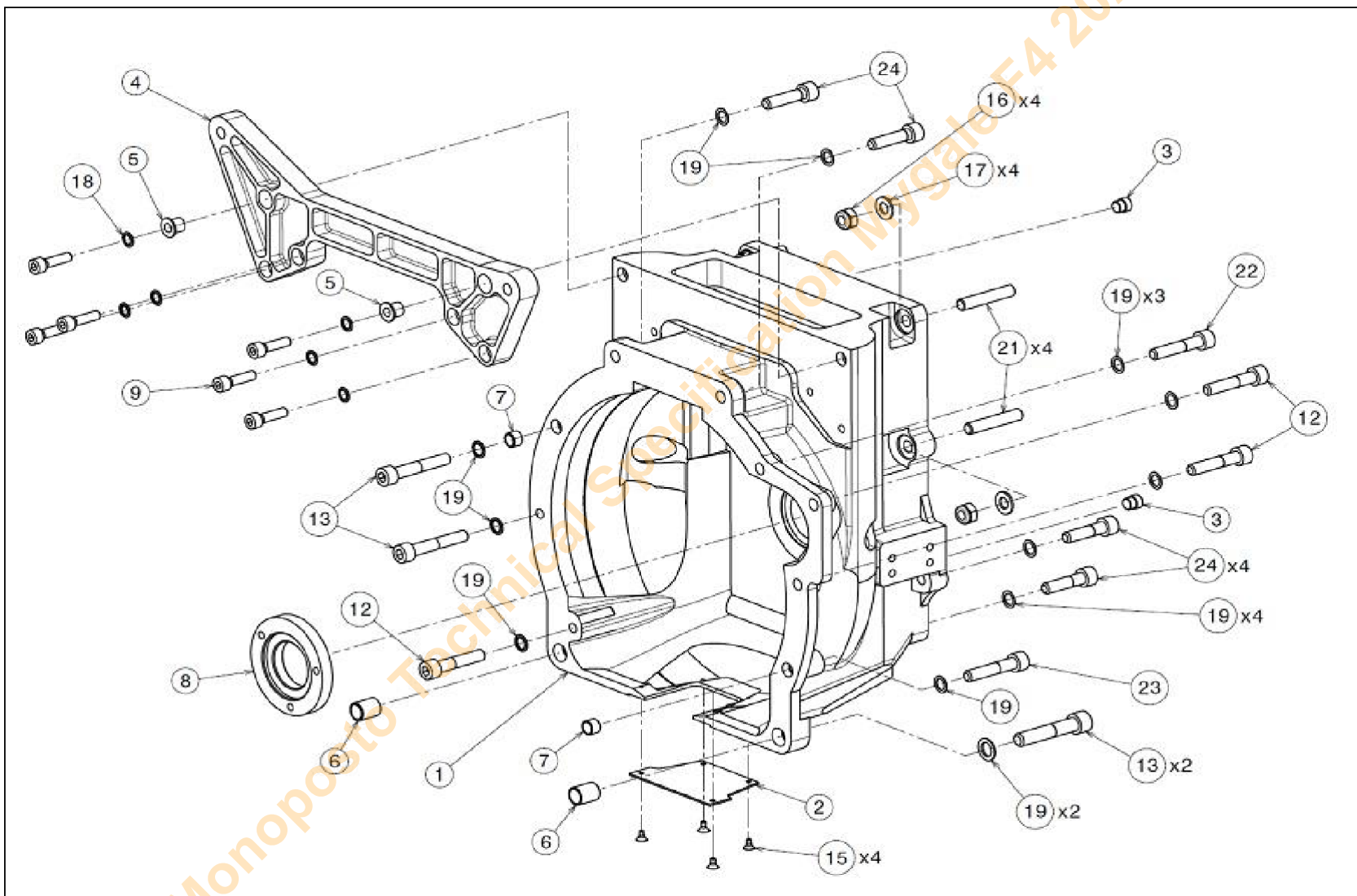
12.01 Driveshaft



12.01 Driveshaft

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.12.017	Complete driveshaft	2	x	1
2	F.41.12.050	CV joint, driveshaft, wheel side	2	Spare	1
3	F.41.12.051	CV boot, driveshaft, wheel side	2	Spare	1
4	F.41.12.052	Driveshaft	2	Spare	1
5	F.41.12.053	Tripod flange, gearbox	2	Spare	1
6	F.41.12.054	Tripod, gearbox	2	Spare	1
7	F.41.12.103	Flange closing plate	2	Spare	1
8	F.41.12.104	Rubber	2	Spare	1
9	F.41.12.105	Rubber plate	2	Spare	1
10	F.41.12.106	Ø86x3 O'ring	2	Spare	3
11	F.41.12.107	SB31 circlip	2	Spare	3
12	F.41.12.108	H26 circlip	2	Spare	3
13	F.41.12.109	M5x25 CHC bolt	6	Spare	3
14	F.41.12.110	M5x16 FHC bolt	6	Spare	3
15	F.41.12.126	Pin, CV boot	4	Spare	3
16	F.41.12.127	Grease (120 gr)	-	Spare	3
17	F.41.12.131	Grease (400 gr)	-	Spare	3
18	F.41.12.130	Ø32.4x1.9 Ring	2	Spare	3
19	F.41.12.132	Drive shaft stop	2	Spare	1
20	F.41.12.152	Driveshaft circlips, wheel side	2	Spare	3
21	F.41.12.160	Strip attachment 8mm, CV boot wheel side	2	Spare	3
22	F.41.12.161	Strip attachment 5mm, CV boot wheel side	2	Spare	3

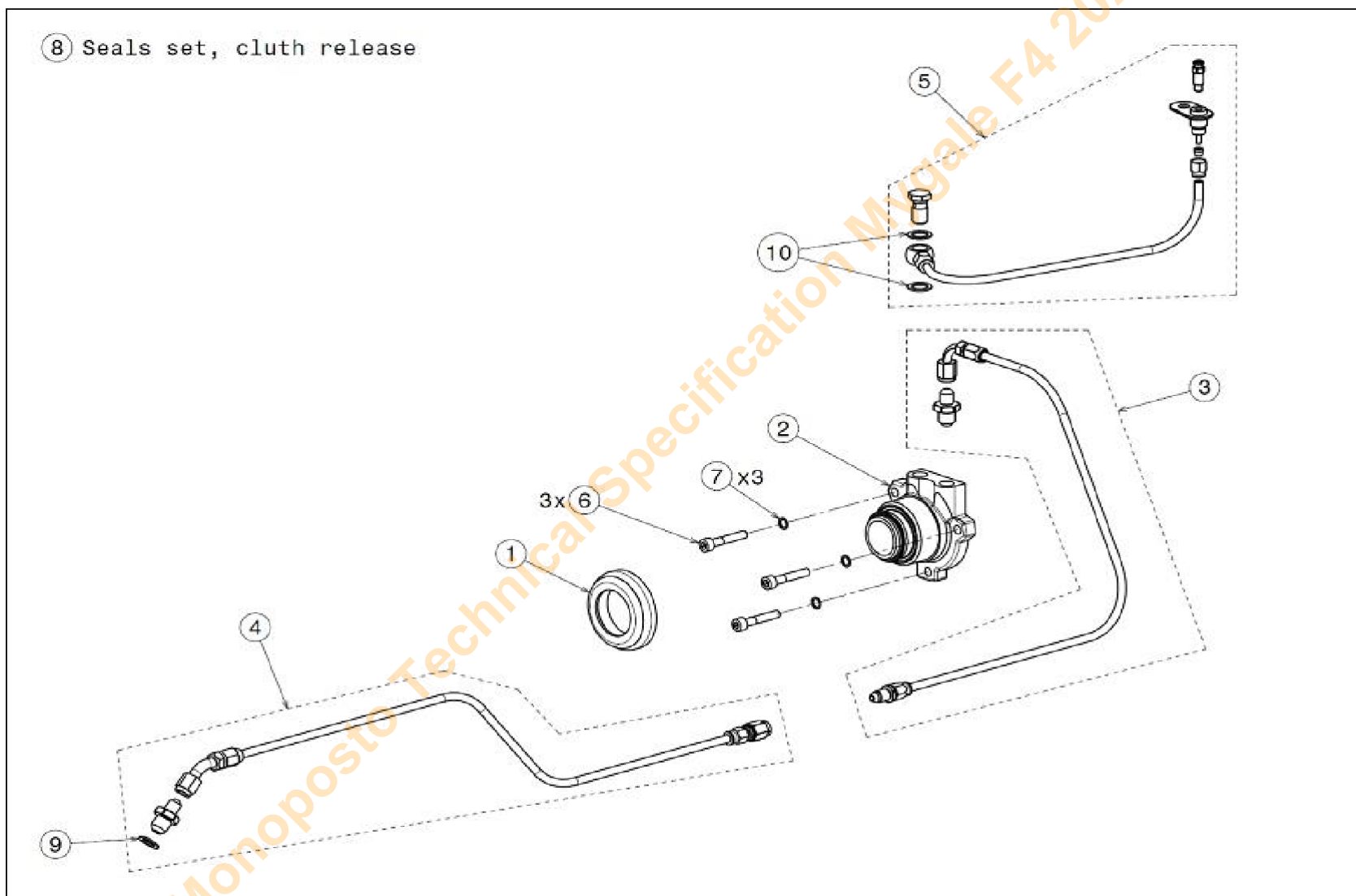
12.02 Bell housing Ford



12.02 Bell housing Ford

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.12.058	Bell housing machining - Ford engine	1	x	1
2	F.41.12.064	Belhousing plate, Ford	1	x	1
3	F.41.12.049	Dowel bellhousing to gearbox	2	x	1
4	F.41.12.062	Belhousing bracket, Ford	1	x	1
5	F.41.12.063	Spacer belhousing bracket, Ford	2	x	1
6	F.41.12.065	Centring bush, bell housing, Ford	2	x	1
7	F.41.12.074	Engine-bellhousing dowel Ford	2	x	1
8	F.41.12.076	Spacer, clutch release, Ford	1	x	1
9	AVM01.08.0030	Screw CHC M8x30 cl 12.9	6	x	3
12	AVM01.10.0050	Screw CHC M10x50 cl 12.9	3	x	3
13	AVM01.10.0060	Screw CHC M10x60 cl 12.9	4	x	3
15	AVM04.04.0008	Screw TFHC M4x8 cl 10.9	4	x	3
16	AEM01.10.0001	Nylstop nut M10 ZnBl	4	x	3
17	ARO06.10.0001	Washer small Ø10 ZnBl	4	x	3
18	ARO13.08.0001	Washer Schnorr Ø8	6	x	3
19	ARO13.10.0001	Washer Schnorr Ø10	15	x	3
21	F.41.12.067	Stud, gearbox to bell housing, Ford	4	x	1
22	AVM01.10.0045	Screw CHc M10x45 cl 12.9	1	x	3
23	AVM01.10.0055	Screw CHc M10x55 cl 12.9	1	x	3
24	AVM01.10.0035	Screw CHc M10x35 cl 12.9	6	x	3

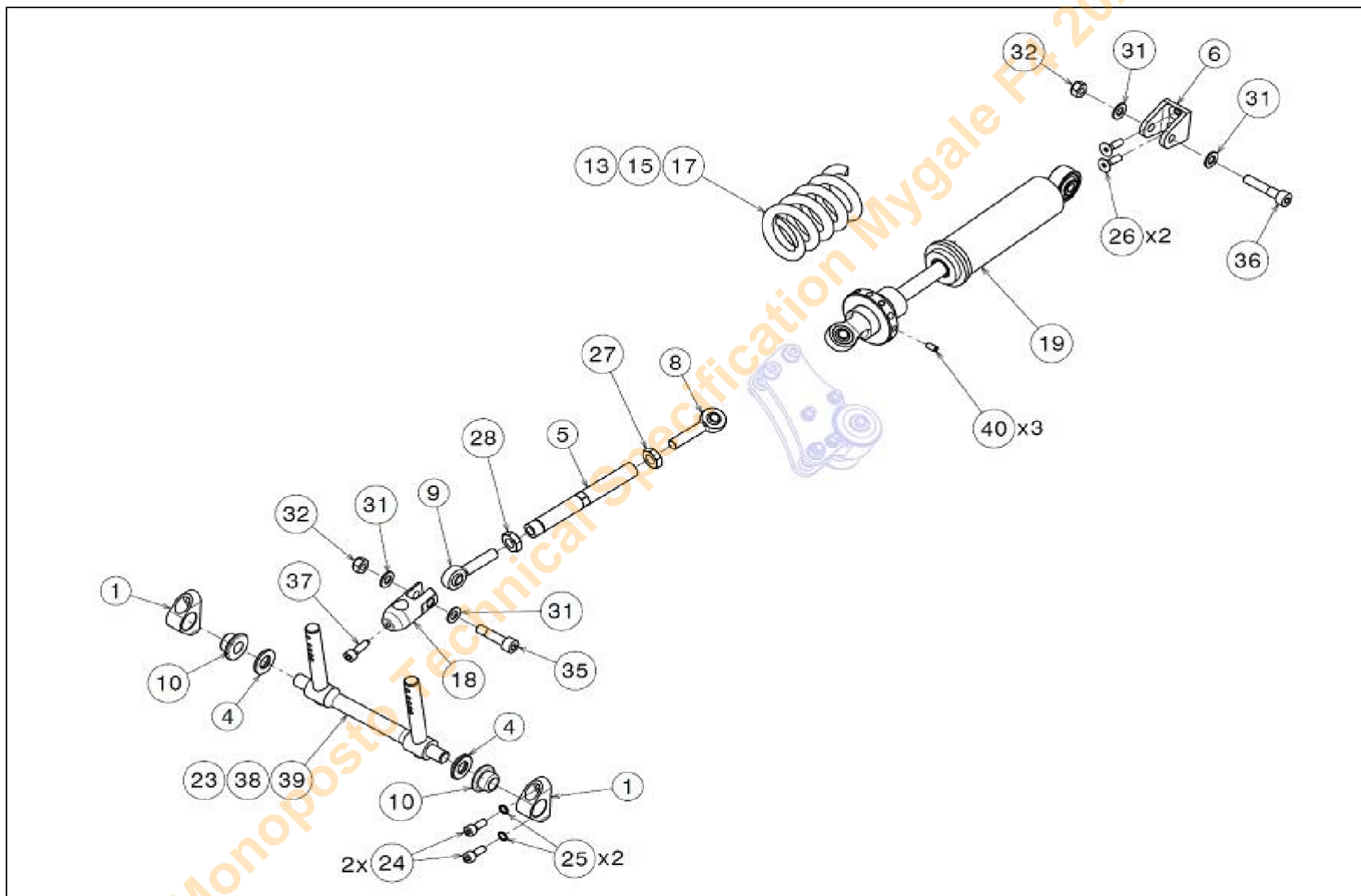
12.03 Clutch hydraulics



12.03 Clutch hydraulics

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.12.014	Clutch release bearing	1	x	1
2	F.41.12.015	Clutch release	1	x	1
3	F.41.12.030	Clutch line, slave cylinder	1	x	1
4	F.41.12.031	Clutch line, main	1	x	1
5	F.41.12.032	Clutch line, bleed	1	x	1
6	AVM01.06.0035	Screw CHC M6x35 cl 12.9	3	x	3
7	ARO13.06.0001	Washer Schnorr Ø6	3	x	3
8	F.41.12.020	Seals set, clutch release	1	Spare	3
9	AJO01.10.0002	Copper Seal Ø10	1	Spare	3
10	AJO02.12.0001	Aluminium seal Ø12	2	Spare	3

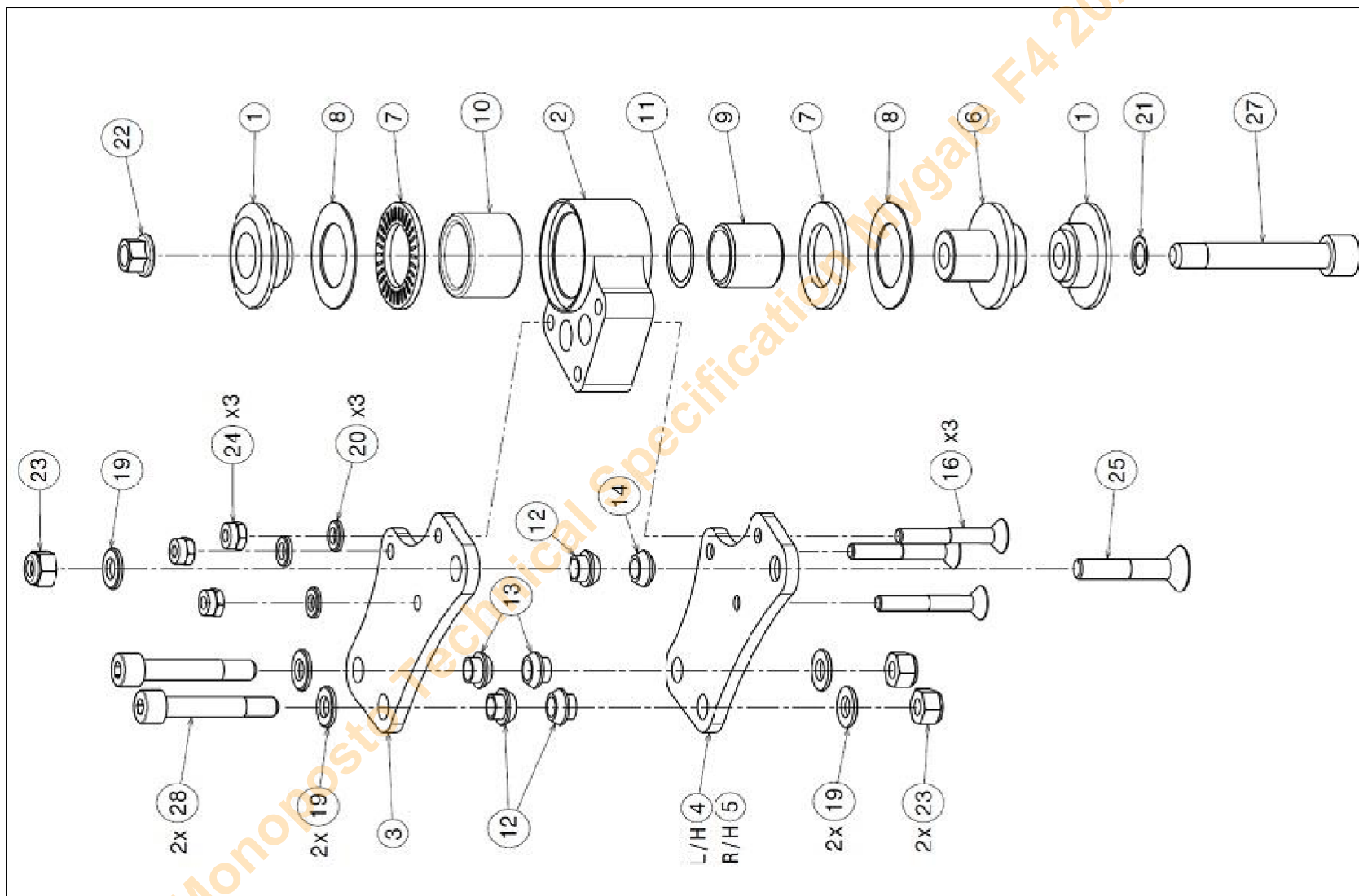
14.01 Front suspension



14.01 Front suspension

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.14.004	Bracket, anti-roll bar	2	x	1
4	F.41.14.002	Washer, anti-roll bar	2	x	1
5	F.41.14.005	Front link adjuster	2	x	1
6	F.41.14.030	Bracket, front damper	2	x	1
8	ART04.05.0001	RH Rod end Bearing size 5	2	x	3
9	ART05.05.0001	LH Rod end Bearing size 5	2	x	3
10	ADA05.12.0001	Combined Needle Bearing Ø12	2	x	1
13	F.41.14.022	Spring 600 lbs/in	2	Option	1
15	F.41.14.024	Spring 800 lbs/in	2	x	1
17	F.41.14.026	Spring 1000 lbs/in	2	Option	1
18	F.41.14.100	Adjustment clevis, anti-roll bar	2	x	1
19	F.41.14.103	Sachs Front Damper, non adjustable	2	x	1
23	F.41.14.107	Anti roll bar D14	1	x	1
24	AVM01.06.0016	Screw CHC M6x16 cl 12.9	4	x	3
25	ARO13.06.0001	Washer Schnorr Ø6	4	x	3
26	AVM04.06.0020	Screw TFHC M6x20 cl 10.9	4	x	3
27	AEF02.38.0001	Nut 3/8 UNF ZnBl	2	x	3
28	AEF04.38.0001	Nut 3/8 UNF Left thread ZnBl	2	x	3
31	ARO06.08.0001	Washer small Ø8 ZnBl	8	x	3
32	AEM01.08.0001	Nylstop nut M8 ZnBl	4	x	3
35	AVM01.08.5035	Screw CHC M8x50 ct 35 cl 12.9	2	x	3
36	AVM01.08.6042	Screw CHC M8x60 ct42 cl 12.9	2	x	3
37	F.41.14.108	Set screw anti roll bar	2	x	3
38	F.41.14.111	Anti roll bar D18	1	Option	1
39	F.41.14.114	Anti roll bar D12	1	Option	1
40	AVM08.06.0012	Grub screw nylon M6x12	6	Spare	3

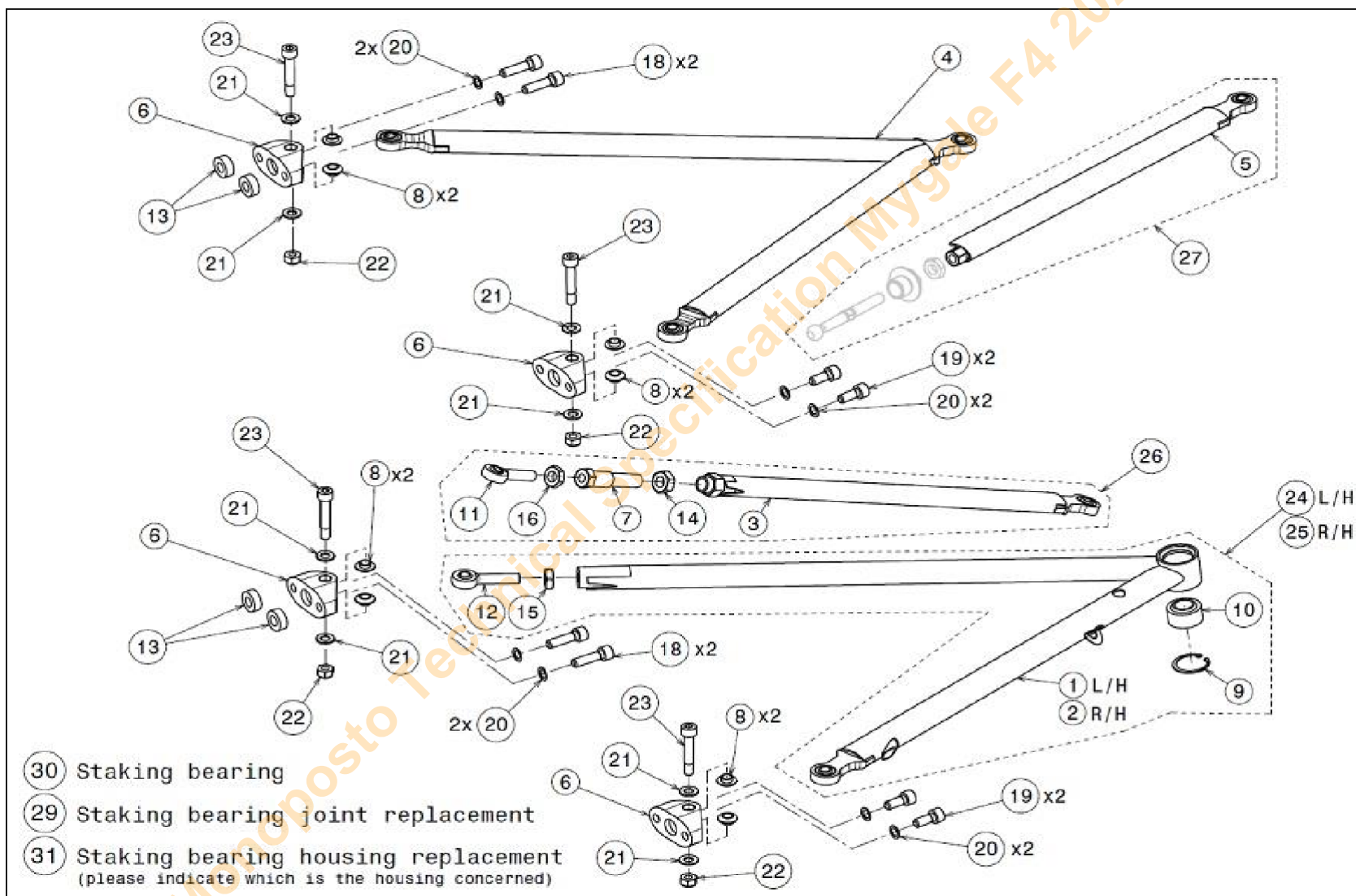
14.02 Front rocker



14.02 Front rocker

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.14.020	Rocker washer	4	x	1
2	F.41.14.018	Rocker hub	2	x	1
3	F.41.14.008	Upper plate, front rocker	2	x	1
4	F.41.14.009	Lower plate, front rocker, left	1	x	1
5	F.41.14.010	Lower plate, front rocker, right	1	x	1
6	F.41.14.011	Front rocker shaft	2	x	1
7	F.41.14.015	Needle bearing	4	x	1
8	F.41.14.016	Rocker shim	4	x	1
9	F.41.14.014	Rocker bush	2	x	1
10	F.41.14.017	Needle bearing	2	x	1
11	F.41.14.019	Adjusting shim	-	x	3
12	F.41.14.012	Rocker spacer	6	x	1
13	F.41.14.069	Spacer, damper	4	x	1
14	F.41.14.013	Rocker spacer, lower front	2	x	1
16	AVM04.06.5040	Screw TFHc M6x50 ct 40 cl 10.9	6	x	3
19	ARO06.08.0001	Washer small Ø8 ZnBl	10	x	3
20	ARO06.06.0001	Washer small Ø6 ZnBl	6	x	3
21	ARO13.10.0001	Washer Schnorr Ø10	2	x	3
22	AEM06.10.0001	K-nut M10	2	x	3
23	AEM01.08.0001	Nylstop nut M8 ZnBl	6	x	3
24	AEM01.06.0001	Nylstop nut M6 ZnBl	6	x	3
25	AVM04.08.5042	Screw TFHc M8x50 ct 42 cl 10.9	2	x	3
27	AVM01.10.7558	Screw CHc M10x75 ct 58 cl 12.9	2	x	3
28	AVM01.08.6042	Screw CHc M8x60 ct42 cl 12.9	4	x	3

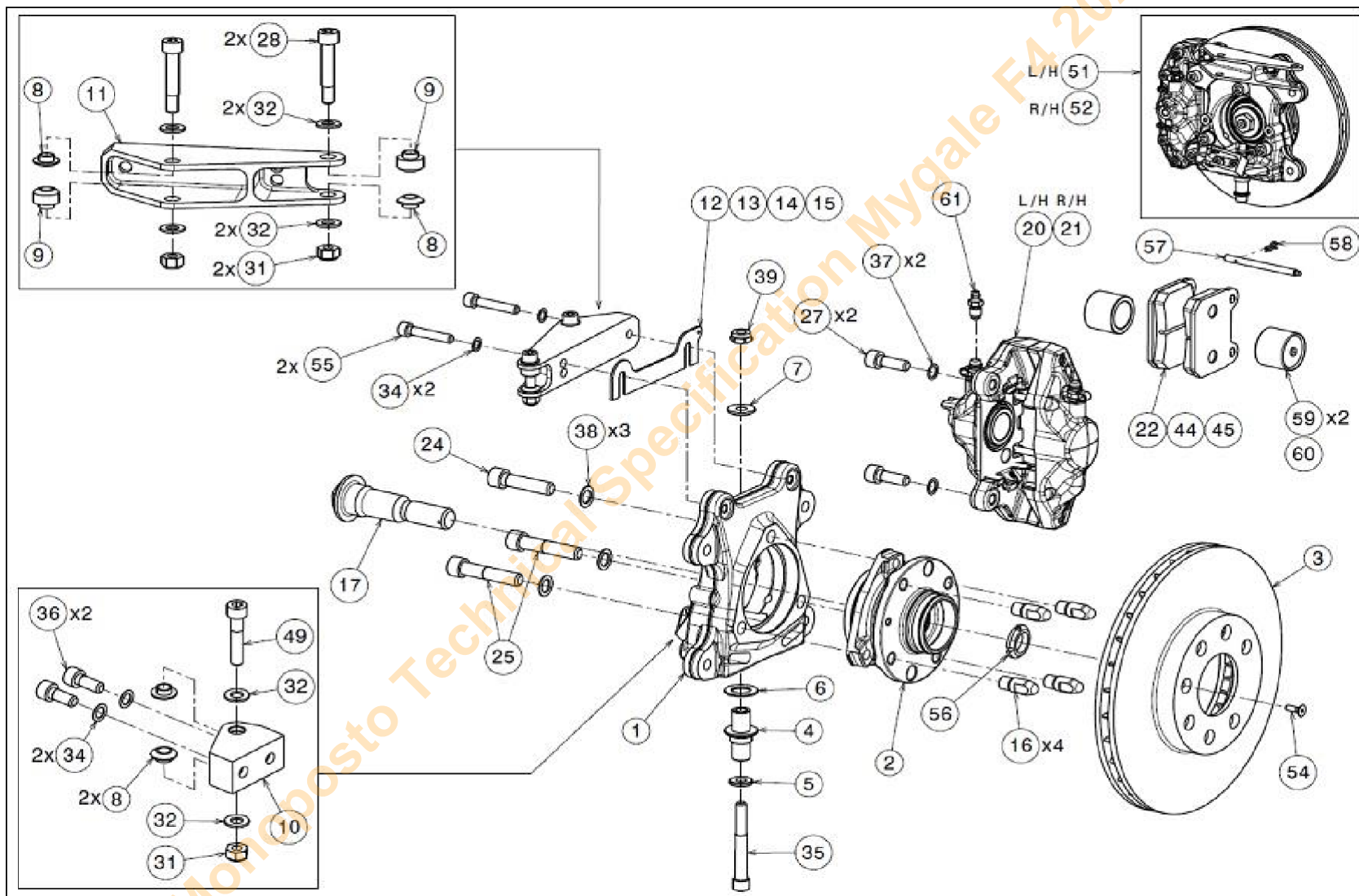
14.03 Front corner



14.03 Front corner

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.14.083	Front lower wishbone, with spherical bearing, left	1	x	1
2	F.41.14.084	Front lower wishbone, with spherical bearing, right	1	x	1
3	F.41.14.086	Front pushrod	2	x	1
4	F.41.14.085	Front upper wishbone	2	x	1
5	F.41.14.087	Steering track rod	2	x	1
6	F.41.14.062	Suspension bracket	8	x	1
7	F.41.14.028	Adjuster	2	x	1
8	F.41.14.063	Spacer, suspension bearing	16	x	1
9	ACI04.30.0001	Inverted Internal Circlips Ø30	2	Spare	3
10	ART02.10.0001	Spherical Bearing Dash 10	2	Spare	3
11	ART05.05.0001	LH Rod end Bearing size 5	2	x	3
12	ART04.05.0001	RH Rod end Bearing size 5	2	x	3
13	F.41.14.075	Bush, front wishbone bracket	8	x	1
14	AEF02.12.0001	Nut 1/2 UNF ZnBl	2	x	3
15	AEF02.38.0001	Nut 3/8 UNF ZnBl	2	x	3
16	AEF04.38.0001	Nut 3/8 UNF Left thread ZnBl	2	x	3
18	AVM01.08.0030	Screw CHc M8x30 cl 12.9	8	x	3
19	AVM01.08.0020	Screw CHC M8x20 cl 12.9	8	x	3
20	ARO13.08.0001	Washer Schnorr Ø8	16	x	3
21	ARO06.08.0001	Washer small Ø8 ZnBl	16	x	3
22	AEM01.08.0001	Nylstop nut M8 ZnBl	8	x	3
23	AVM01.08.6042	Screw CHc M8x60 ct42 cl 12.9	8	x	3
24	F.41.14.116	Front lower wishbone, left, assembly with brake line	1	Assembly part	1
25	F.41.14.117	Front lower wishbone, right, assembly with brake line	1	Assembly part	1
26	F.41.14.118	Front pushrod assembly	2	Assembly part	1
27	F.41.14.119	Steering track rod assembly	2	Assembly part	1
29	F.41.14.121	Staking bearing joint replacement	1	Repair	1
30	ART02.05.0001	Spherical Bearing Dash 5	1	Spare	1
31	F.41.14.122	Staking bearing housing replacement	1	Repair	1

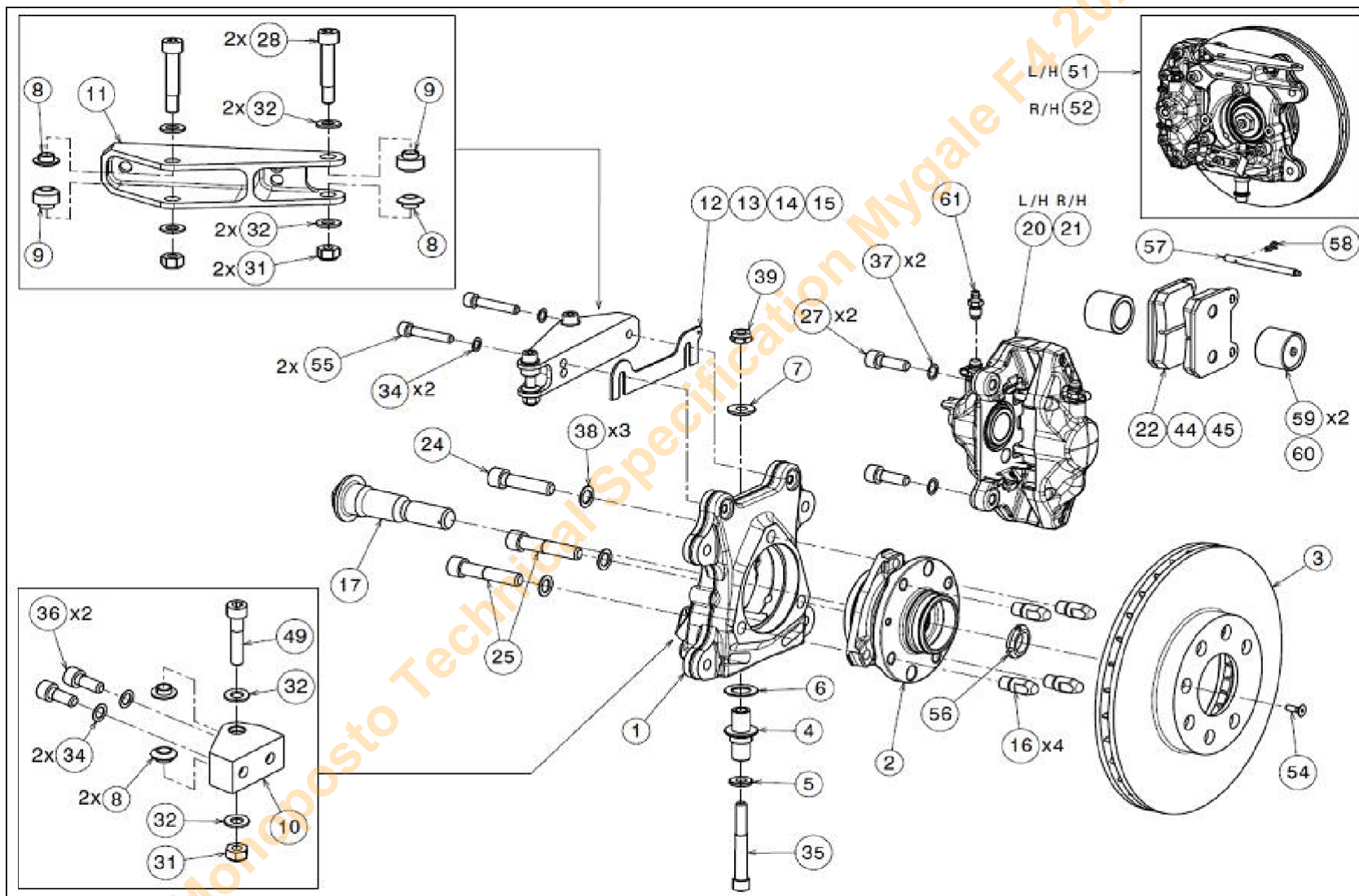
14.04 Front upright



14.04 Front upright

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.14.032	Upright	2	x	1
2	F.41.14.029	Wheel bearing	2	x	1
3	F.41.17.001	Brake disc	2	x	1
4	F.41.14.065	Lower upright pin	2	x	1
5	F.41.14.066	Lower washer, upright pin	2	x	1
6	F.41.14.097	Spacer, lower upright pin	2	x	1
7	F.41.14.067	Upper washer, upright pin	2	x	1
8	F.41.14.063	Spacer, suspension bearing	8	x	1
9	F.41.14.064	Spacer, suspension bearing, large	4	x	1
10	F.41.14.061	Bracket, pushrod on upright	2	x	1
11	F.41.14.060	Steering arm	2	x	1
12	F.41.14.055	Camber shim, 1 mm	2	Option	1
13	F.41.14.056	Camber shim, 1.5 mm	2	Option	1
14	F.41.14.057	Camber shim, 2 mm	2	x	1
15	F.41.14.058	Camber shim, 4 mm	2	Option	1
16	F.41.14.077	Drive peg	8	x	1
17	F.41.14.076	Front wheel stud	2	x	1
20	F.41.17.002	Brake caliper, trailing left	1	x	1
21	F.41.17.003	Brake caliper, trailing right	1	x	1
22	F.41.17.004	Brake pads, DS Performance (box of 4)	1	x	1
24	AVM01.12.7050	Screw CHc M12x70 ct50 pitch 150 cl 12.9	2	x	3
25	AVM01.12.7062	Screw CHc M12x70 ct62 pitch 150 cl 12.9	4	x	3
27	AVM01.10.0030	Screw CHc M10x30 cl 12.9	4	x	3
28	AVM01.08.6045	Screw CHc M8x60 ct45 cl 12.9	4	x	3
31	AEM01.08.0001	Nylstop nut M8 ZnBl	6	x	3
32	ARO06.08.0001	Washer small Ø8 ZnBl	12	x	3
34	ARO13.08.0001	Washer Schnorr Ø8	8	x	3
35	AVF01.38.0300	Screw CHc 3/8x3" UNF cl 12.9	2	x	3

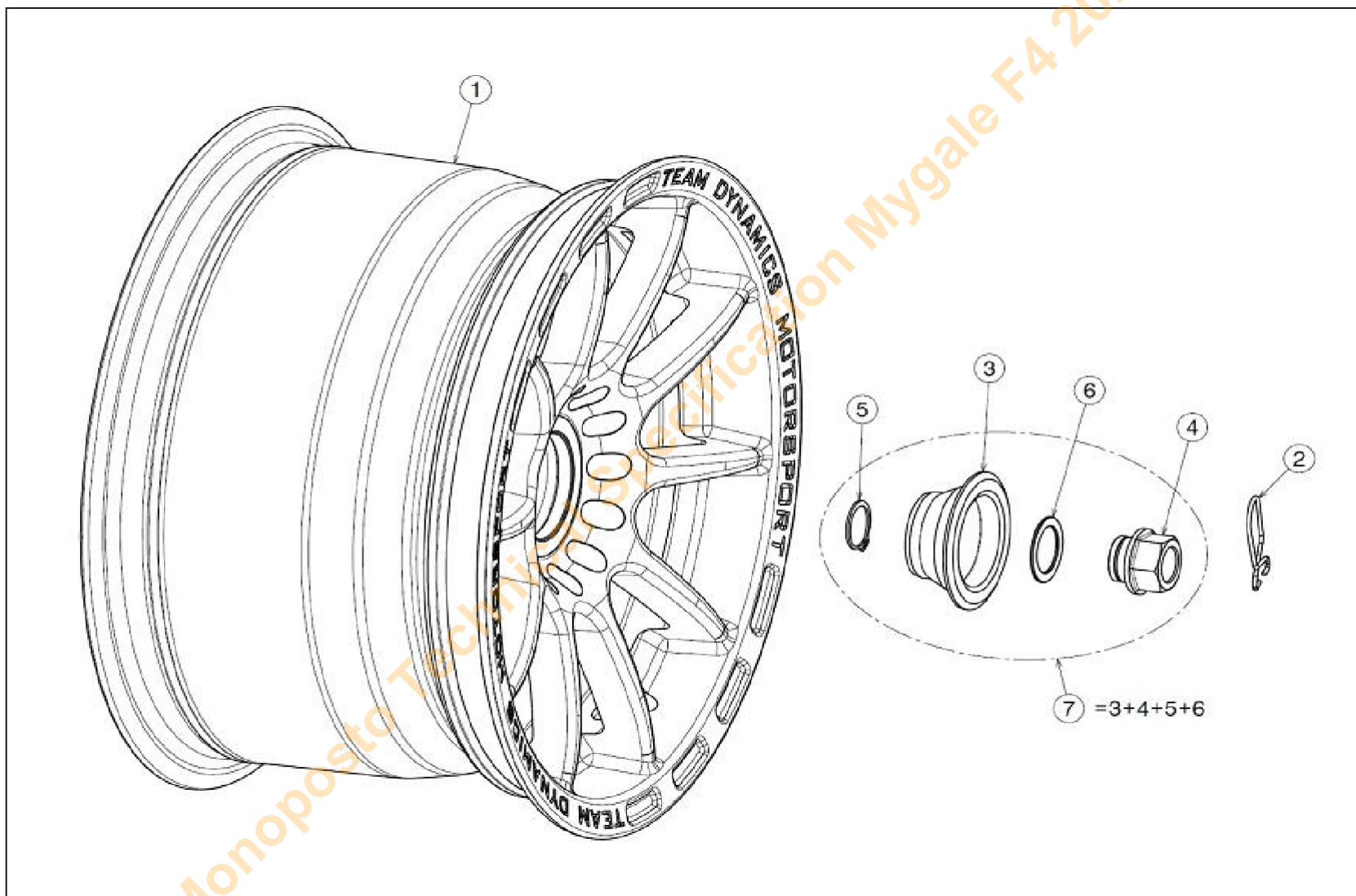
14.04 Front upright



14.04 Front upright

N°	Reference	Description	Qty	STD / Opt	Type
36	AVM01.08.0020	Screw CHC M8x20 cl 12.9	4	x	3
37	ARO13.10.0001	Washer Schnorr Ø10	4	x	3
38	ARO13.12.0001	Washer Schnorr Ø12	6	x	3
39	AEF01.38.0002	Nylstop nut 3/8 UNF thin type ZnBl	2	x	3
44	F.41.17.007	Brake pads, DS3000 (box of 4)	1	Option	1
45	F.41.17.008	Brake pads, DS1.11 (box of 4)	1	Option	1
49	AVM01.08.5540	Screw CHC M8x55 ct 40 cl 12.9	2	x	3
51	F.41.14.115	Front L/H upright pre assembly	1	Assembly part	1
52	F.41.14.120	Front R/H upright pre assembly	1	Assembly part	1
54	AVM04.06.0016	Screw TFHC M6x16 cl 10.9	2	x	3
55	AVM01.08.0035	Screw CHc M8x35 cl 12.9	4	x	3
56	AEM14.20.0100	Notched nut M20x1	2	x	3
57	F.41.17.028	Pad pin	4	Spare	1
58	F.41.17.029	Cotter pin	4	Spare	1
59	F.41.17.027	Piston diam. 36mm	4	Spare	1
60	F.41.17.026	Piston seal kit diam. 36mm (kit of 8 seals)	0.5	Spare	1
61	F.41.17.030	Bleed screw	4	Spare	1

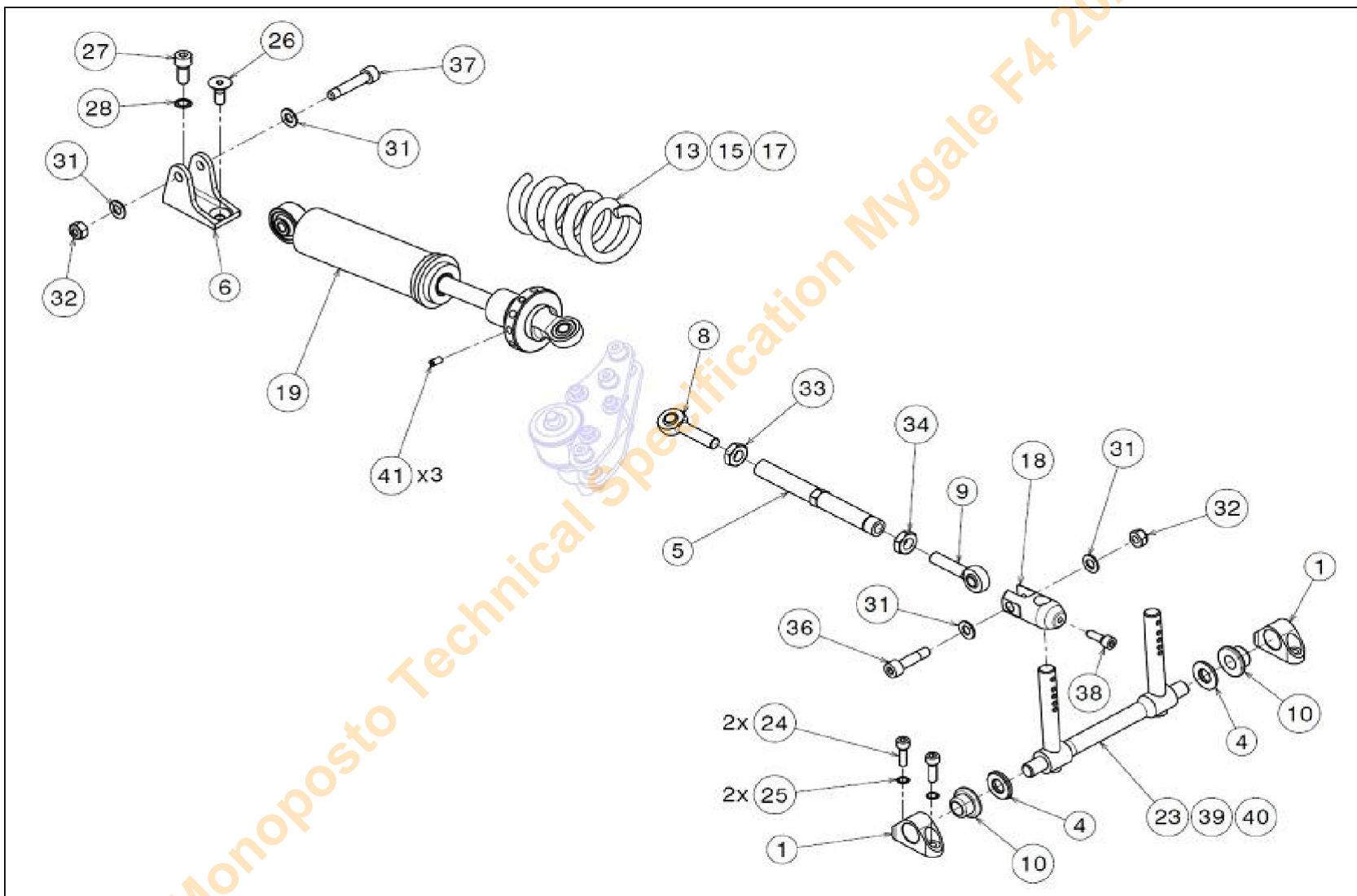
14.05 Front wheel



14.05 Front wheel

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.14.078	Front rim	2	x	1
2	F.41.14.082	Safety clip, wheel nut	2	x	1
3	F.41.14.138	Wheel washer, heavy duty wheel nut	2	x	1
4	F.41.14.137	Heavy duty wheel nut	2	x	1
5	ACI02.24.0001	External Circlips Ø24	2	x	3
6	F.41.14.135	Wheel nut washer	2	x	1
7	F.41.14.136	Assembled heavy duty wheel nut	2	Assembly part	1

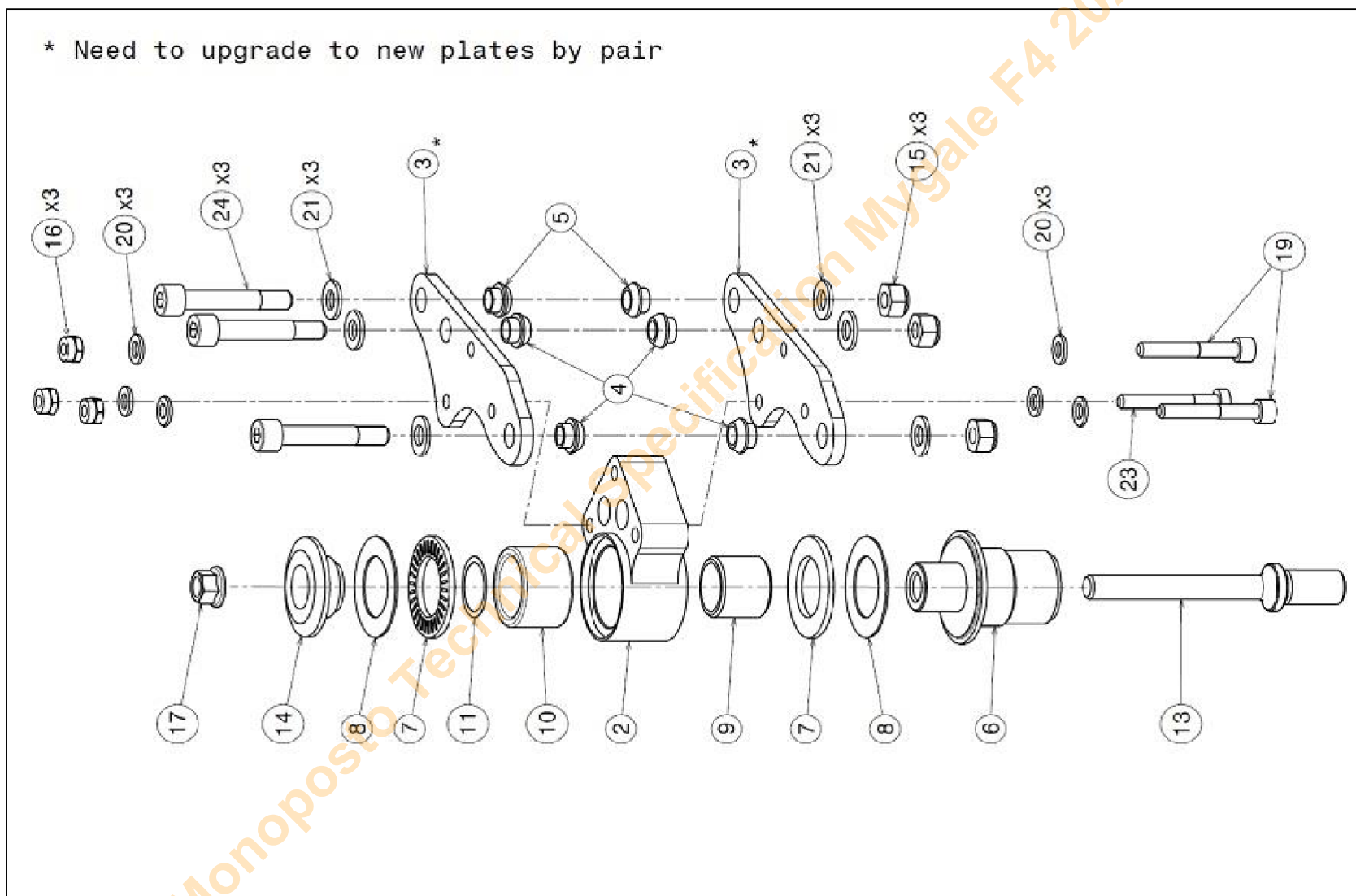
15.01 Rear suspension



15.01 Rear suspension

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.14.004	Bracket, anti-roll bar	2	x	1
4	F.41.14.002	Washer, anti-roll bar	2	x	1
5	F.41.14.005	Anti roll bar link adjuster	2	x	1
6	F.41.15.022	Bracket, rear damper	2	x	1
8	ART04.05.0001	RH Rod end Bearing size 5	2	x	3
9	ART05.05.0001	LH Rod end Bearing size 5	2	x	3
10	ADA05.12.0001	Combined Needle Bearing Ø12	2	x	1
13	F.41.14.022	Spring 600 lbs/in	2	Option	1
15	F.41.14.024	Spring 800 lbs/in	2	x	1
17	F.41.14.026	Spring 1000 lbs/in	2	Option	1
18	F.41.14.100	Adjustment clevis, anti-roll bar	2	x	1
19	F.41.15.029	Sachs Rear damper, non adjustable	2	x	1
23	F.41.14.107	Anti roll bar D14	1	x	1
24	AVM01.06.0020	Screw CHC M6x20 cl 12.9	4	x	3
25	ARO13.06.0001	Washer Schnorr Ø6	4	x	3
26	AVM04.08.0020	Screw TFHC M8x20 cl 10.9	2	x	3
27	AVM01.08.0020	Screw CHC M8x20 cl 12.9	2	x	3
28	ARO13.08.0001	Washer Schnorr Ø8	2	x	3
31	ARO06.08.0001	Washer small Ø8 ZnBl	8	x	3
32	AEM01.08.0001	Nylstop nut M8 ZnBl	4	x	3
33	AEF02.38.0001	Nut 3/8 UNF ZnBl	2	x	3
34	AEF04.38.0001	Nut 3/8 UNF Left thread ZnBl	2	x	3
36	AVM01.08.5035	Screw CHC M8x50 ct 35 cl 12.9	2	x	3
37	AVM01.08.6042	Screw CHC M8x60 ct42 cl 12.9	2	x	3
38	F.41.14.108	Set screw anti roll bar	2	x	3
39	F.41.14.111	Anti roll bar D18	1	Option	1
40	F.41.14.114	Anti roll bar D12	1	Option	1
41	AVM08.06.0012	Grub screw nylon M6x12	6	Spare	3

15.02 Rear rocker

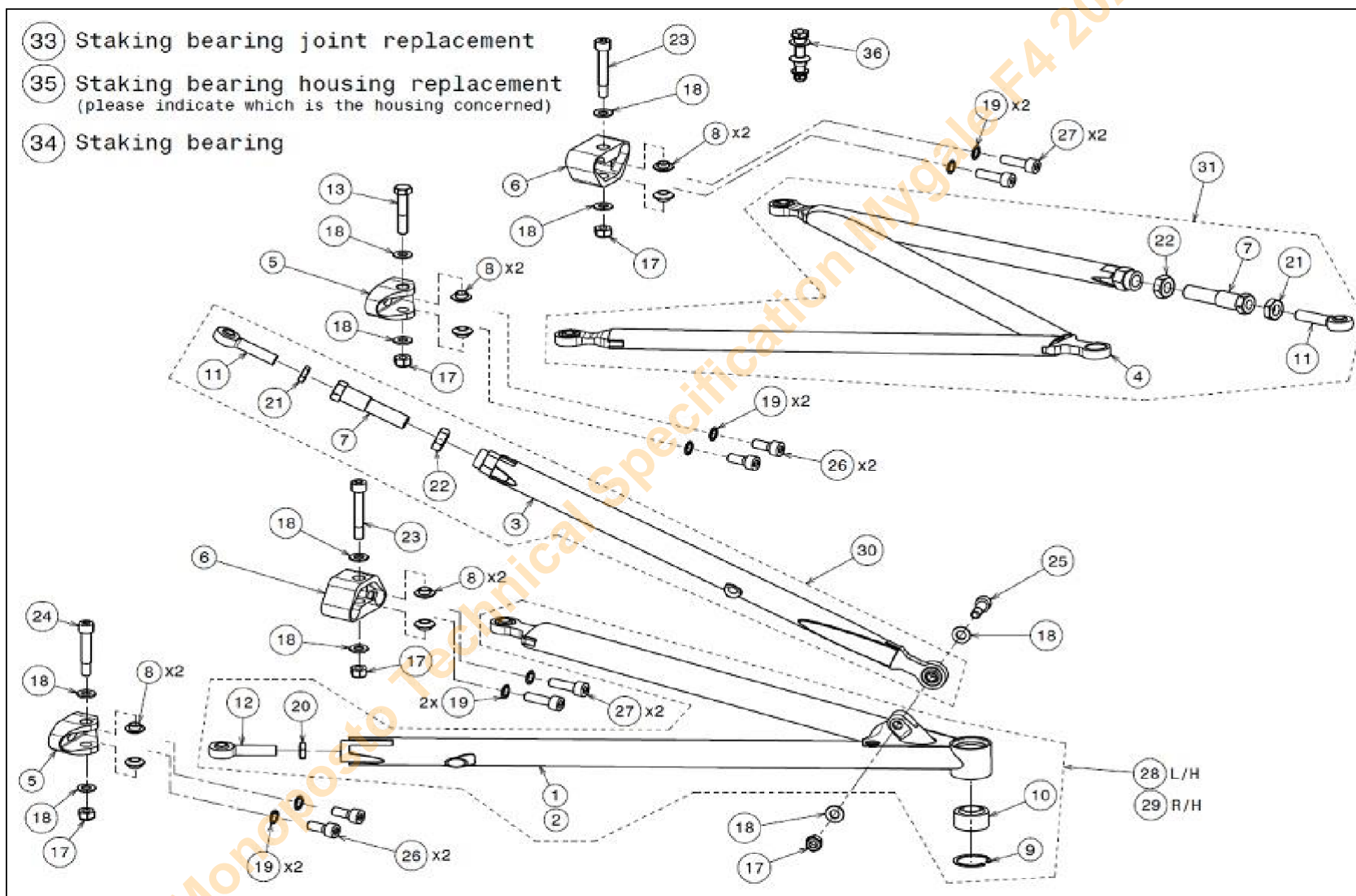


15.02 Rear rocker

N°	Reference	Description	Qty	STD / Opt	Type
2	F.41.14.018	Rocker hub	2	x	1
3	F.41.15.037	Rear rocker plate V2	4	x	1
4	F.41.14.012	Rocker spacer	8	x	1
5	F.41.14.069	Spacer, damper	4	x	1
6	F.41.15.018	Rear axle rocker	2	x	1
7	F.41.14.015	Needle bearing	4	x	1
8	F.41.14.016	Rocker shim	4	x	1
9	F.41.14.014	Rocker bush	2	x	1
10	F.41.14.017	Needle bearing	2	x	1
11	F.41.14.019	Adjusting shim	-	x	3
13	F.41.15.027	Rear rocker stud	2	x	1
14	F.41.14.020	Rocker washer	2	x	1
15	AEM01.08.0001	Nylstop nut M8 ZnBl	6	x	3
16	AEM01.06.0001	Nylstop nut M6 ZnBl	6	x	3
17	AEM06.10.0001	Nut Avia M10	2	x	3
19	AVM01.06.0040	Screw CHC M6x40 cl 12.9	4	x	3
20	ARO06.06.0001	Washer small Ø6 ZnBl	12	x	3
21	ARO06.08.0001	Washer small Ø8 ZnBl	12	x	3
23	AVM07.06.0040	Screw CHC M6x40 low head cap cl10.9	2	x	3
24	AVM01.08.6042	Screw CHc M8x60 ct42 cl 12.9	6	x	3

* Need to upgrade to new plates by pair

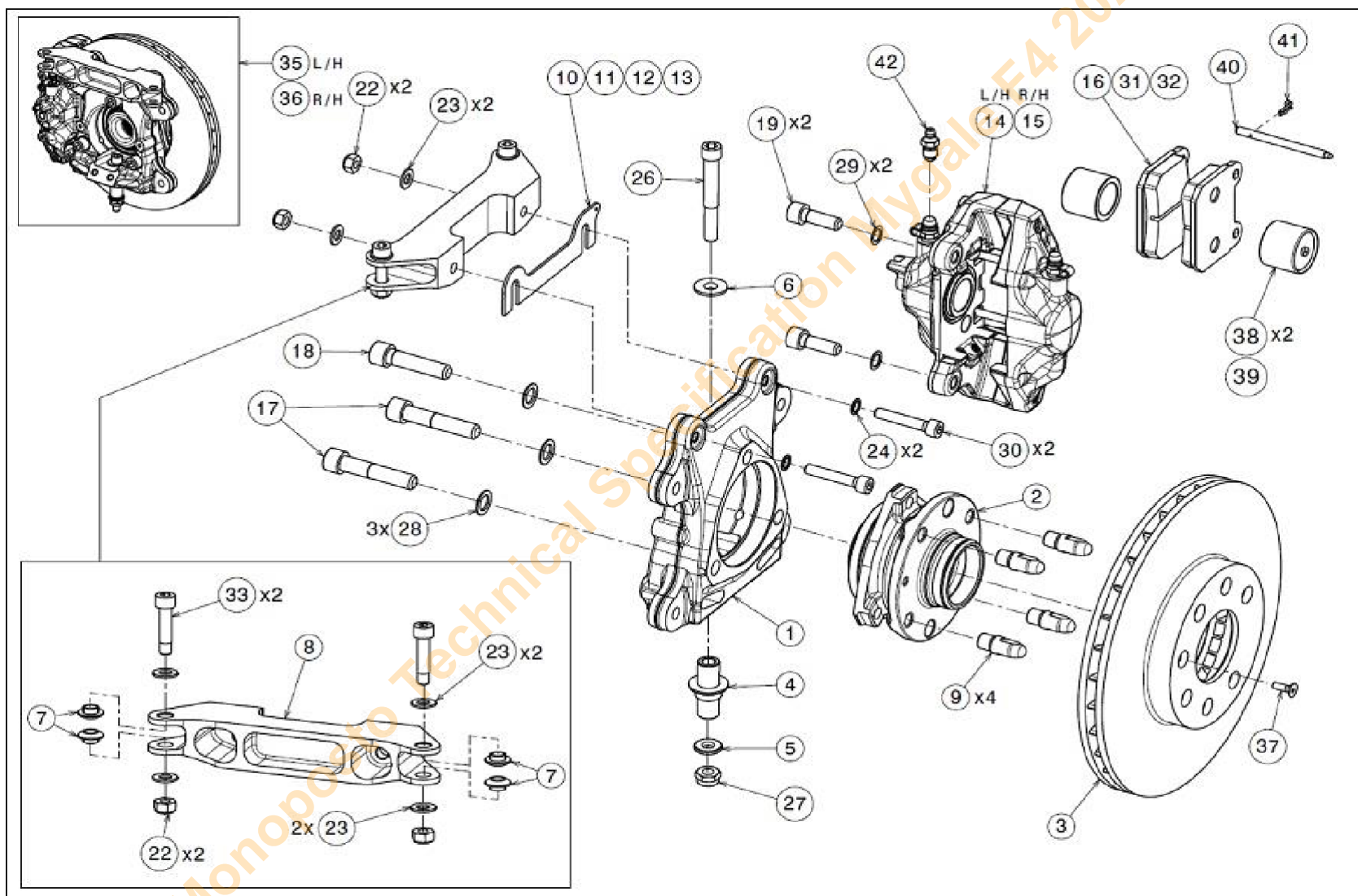
15.03 Rear corner



15.03 Rear corner

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.15.001	Rear lower wishbone, with spherical bearing, left	1	x	1
2	F.41.15.002	Rear lower wishbone, with spherical bearing, right	1	x	1
3	F.41.15.039	Rear pushrod EVO	2	x	1
4	F.41.15.003	Rear upper wishbone	2	x	1
5	F.41.14.062	Suspension bracket	4	x	1
6	F.41.15.016	Suspension bracket, offset	4	x	1
7	F.41.14.028	Adjuster	4	x	1
8	F.41.14.063	Spacer, suspension bearing	16	x	1
9	ACI04.30.0001	Inverted Internal Circlips Ø30	2	Spare	3
10	ART02.10.0001	Spherical Bearing Dash 10	2	Spare	3
11	ART05.05.0001	LH Rod end Bearing size 5	4	x	3
12	ART04.05.0001	RH Rod end Bearing size 5	2	x	3
13	AVM02.08.5042	Screw Hexagon Head M8x50 ct42 cl 12.9	2	x	3
17	AEM01.08.0001	Nylstop nut M8 ZnBl	10	x	3
18	ARO06.08.0001	Washer small Ø8 ZnBl	20	x	3
19	ARO13.08.0001	Washer Schnorr Ø8	16	x	3
20	AEF02.38.0001	Nut 3/8 UNF ZnBl	2	x	3
21	AEF04.38.0001	Nut 3/8 UNF Left thread ZnBl	4	x	3
22	AEF02.12.0001	Nut 1/2 UNF ZnBl	4	x	3
23	AVM01.08.6549	Screw CHc M8x65 ct49 cl 12.9	4	x	3
24	AVM01.08.6042	Screw CHc M8x60 ct42 cl 12.9	2	x	3
25	AVM01.08.4530	Screw CHC M8x45 ct 30 cl 12.9	2	x	3
26	AVM01.08.0020	Screw CHC M8x20 cl 12.9	8	x	3
27	AVM01.08.4535	Screw CHC M8x45 ct 35 cl 12.9	8	x	3
28	F.41.15.031	Rear lower wishbone, left, assembly with brake line	1	Assembly part	1
29	F.41.15.032	Rear lower wishbone, right, assembly with brake line	1	Assembly part	1
30	F.41.15.038	Rear pushrod EVO assy	2	Assembly part	1
31	F.41.15.034	Rear upper wishbone assembly	2	Assembly part	1
33	F.41.14.121	Staking bearing joint replacement	1	Repair	1
34	ART02.05.0001	Spherical Bearing Dash 5	1	Spare	1
35	F.41.14.122	Staking bearing housing replacement	1	Repair	1
36	F.41.15.044	Kit NAS bolt, Rr suspension brackets	1	Option	3

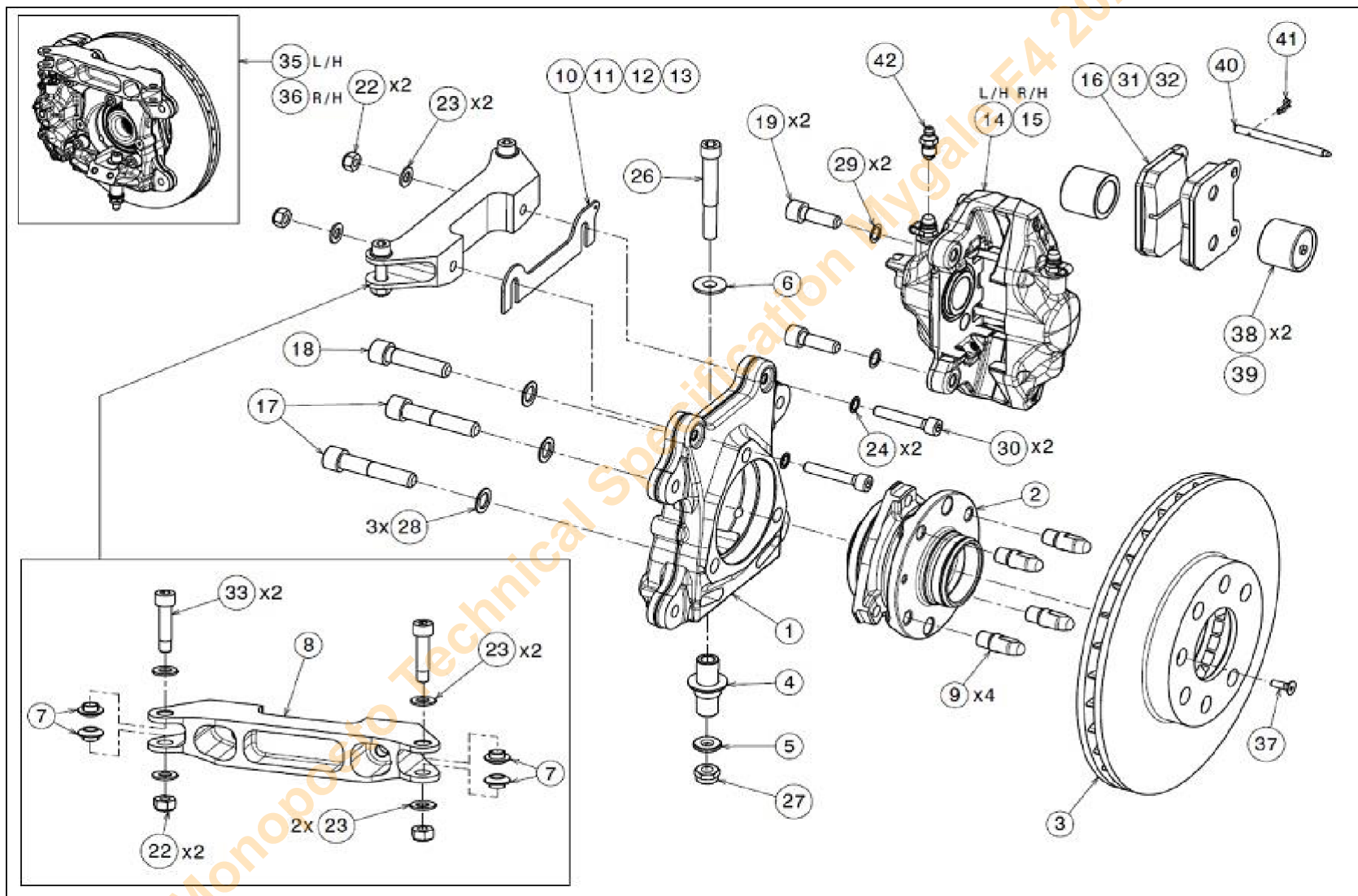
15.04 Rear upright



15.04 Rear upright

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.14.032	Upright	2	x	1
2	F.41.14.029	Wheel bearing	2	x	1
3	F.41.17.001	Brake disc	2	x	1
4	F.41.14.065	Lower upright pin	2	x	1
5	F.41.14.066	Lower washer, upright pin	2	x	1
6	F.41.14.067	Upper washer, upright pin	2	x	1
7	F.41.14.063	Spacer, suspension bearing	8	x	1
8	F.41.15.015	Rear wishbone mount	2	x	1
9	F.41.14.077	Drive peg	8	x	1
10	F.41.14.055	Camber shim, 1 mm	2	Option	1
11	F.41.14.056	Camber shim, 1.5 mm	2	Option	1
12	F.41.14.057	Camber shim, 2 mm	2	x	1
13	F.41.14.058	Camber shim, 4 mm	2	Option	1
14	F.41.17.002	Brake caliper, trailing left	1	x	1
15	F.41.17.003	Brake caliper, trailing right	1	x	1
16	F.41.17.004	Brake pads, DS Performance (box of 4)	1	x	1
17	AVM01.12.7062	Screw CHc M12x70 ct62 pitch 150 cl 12.9	4	x	3
18	AVM01.12.7050	Screw CHc M12x70 ct50 pitch 150 cl 12.9	2	x	3
19	AVM01.10.0030	Screw CHc M10x30 cl 12.9	4	x	3
22	AEM01.08.0001	Nylstop nut M8 ZnBl	8	x	3
23	ARO06.08.0001	Washer small Ø8 ZnBl	12	x	3
24	ARO13.08.0001	Washer Schnorr Ø8	4	x	3
26	AVF01.38.0300	Screw CHc 3/8x3" UNF cl 12.9	2	x	3
27	AEF01.38.0001	Nylstop nut 3/8 UNF ZnBl	2	x	3
28	ARO13.12.0001	Washer Schnorr Ø12	6	x	3
29	ARO13.10.0001	Washer Schnorr Ø10	4	x	3
30	AVM06.08.0045	Screw CHc M8x45 full thread cl12.9	4	x	3
31	F.41.17.007	Brake pads, DS3000 (box of 4)	1	Option	1

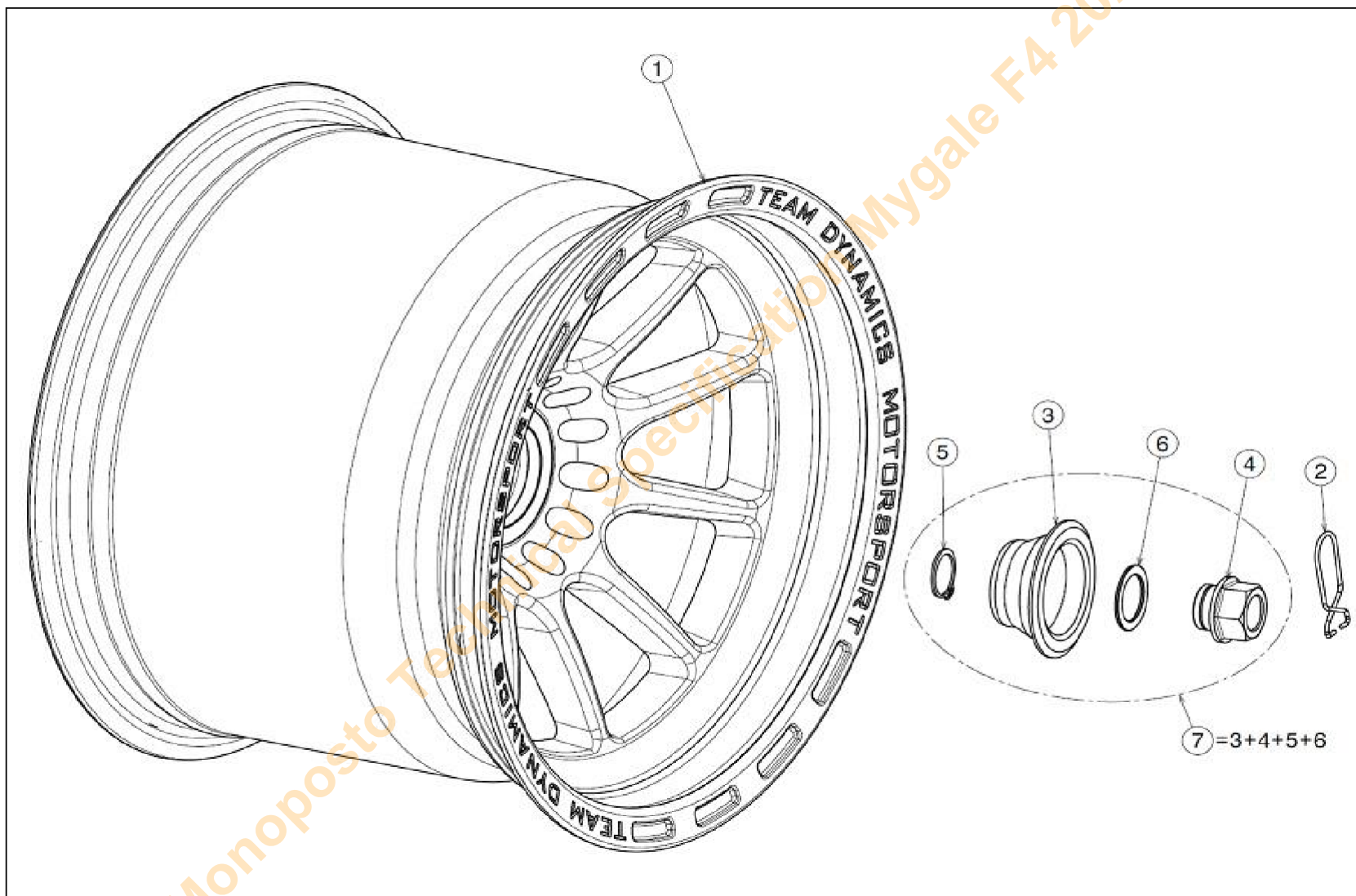
15.04 Rear upright



15.04 Rear upright

N°	Reference	Description	Qty	STD / Opt	Type
32	F.41.17.008	Brake pads, DS1.11 (box of 4)	1	Option	1
33	AVM01.08.5540	Screw CHC M8x55 ct 40 cl 12.9	4	x	3
35	F.41.15.035	Rear L/H upright pre assembly	1	Assembly part	1
36	F.41.15.036	Rear R/H upright pre assembly	1	Assembly part	1
37	AVM04.06.0016	Screw TFHC M6x16 cl 10.9	2	x	3
38	F.41.17.027	Piston diam. 36mm	4	Spare	1
39	F.41.17.026	Piston seal kit diam. 36mm (kit of 8 seals)	0.5	Spare	1
40	F.41.17.028	Pad pin	4	Spare	1
41	F.41.17.029	Cotter pin	4	Spare	1
42	F.41.17.030	Bleed screw	4	Spare	1

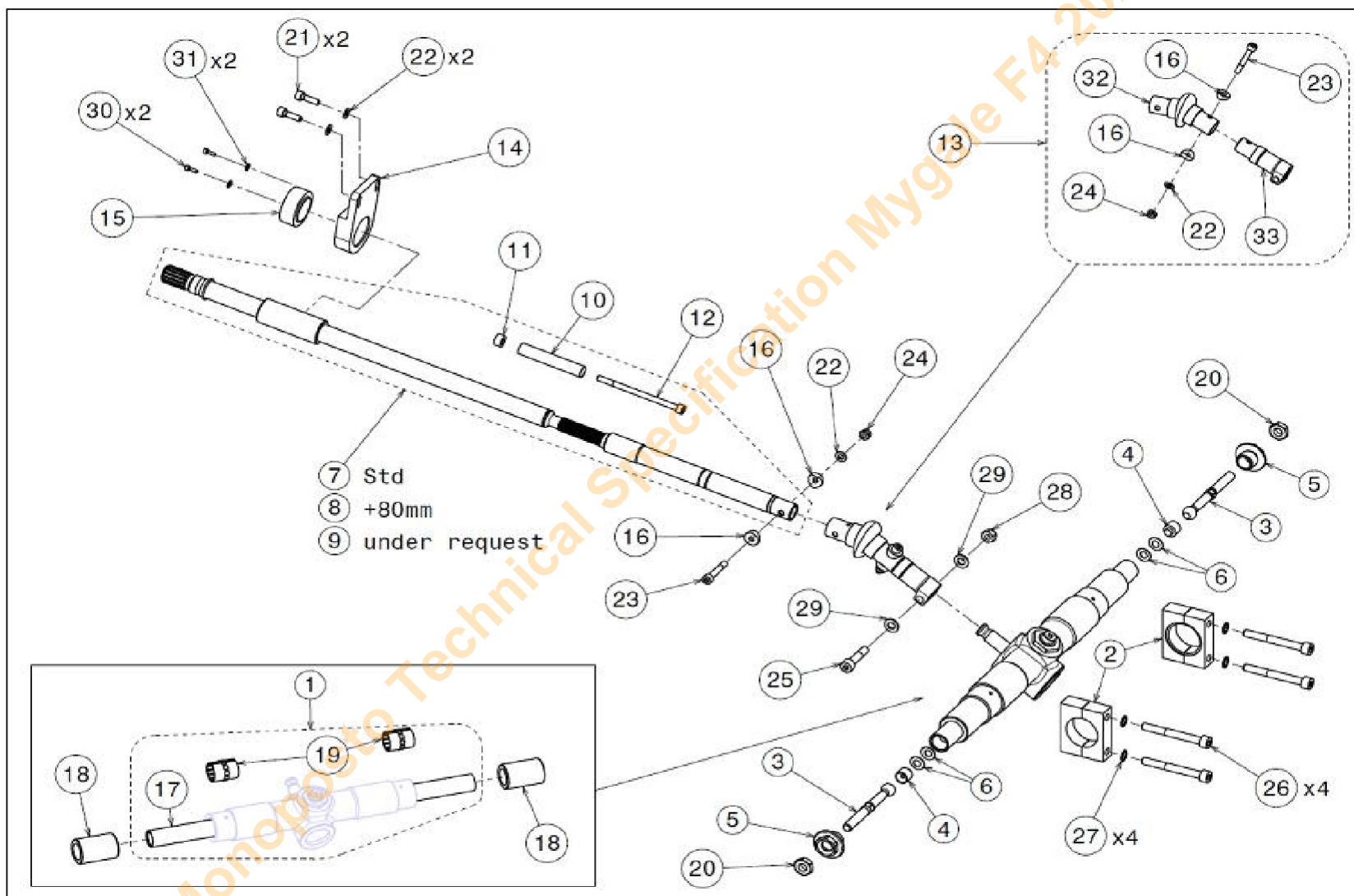
15.05 Rear wheel



15.05 Rear wheel

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.15.026	Rear rim	2	x	1
2	F.41.14.082	Safety clip, wheel nut	2	x	1
3	F.41.14.138	Wheel washer, heavy duty wheel nut	2	x	1
4	F.41.14.137	Heavy duty wheel nut	2	x	1
5	ACI02.24.0001	External Circlips Ø24	2	x	3
6	F.41.14.135	Wheel nut washer	2	x	1
7	F.41.14.136	Assembled heavy duty wheel nut	2	Assembly part	1

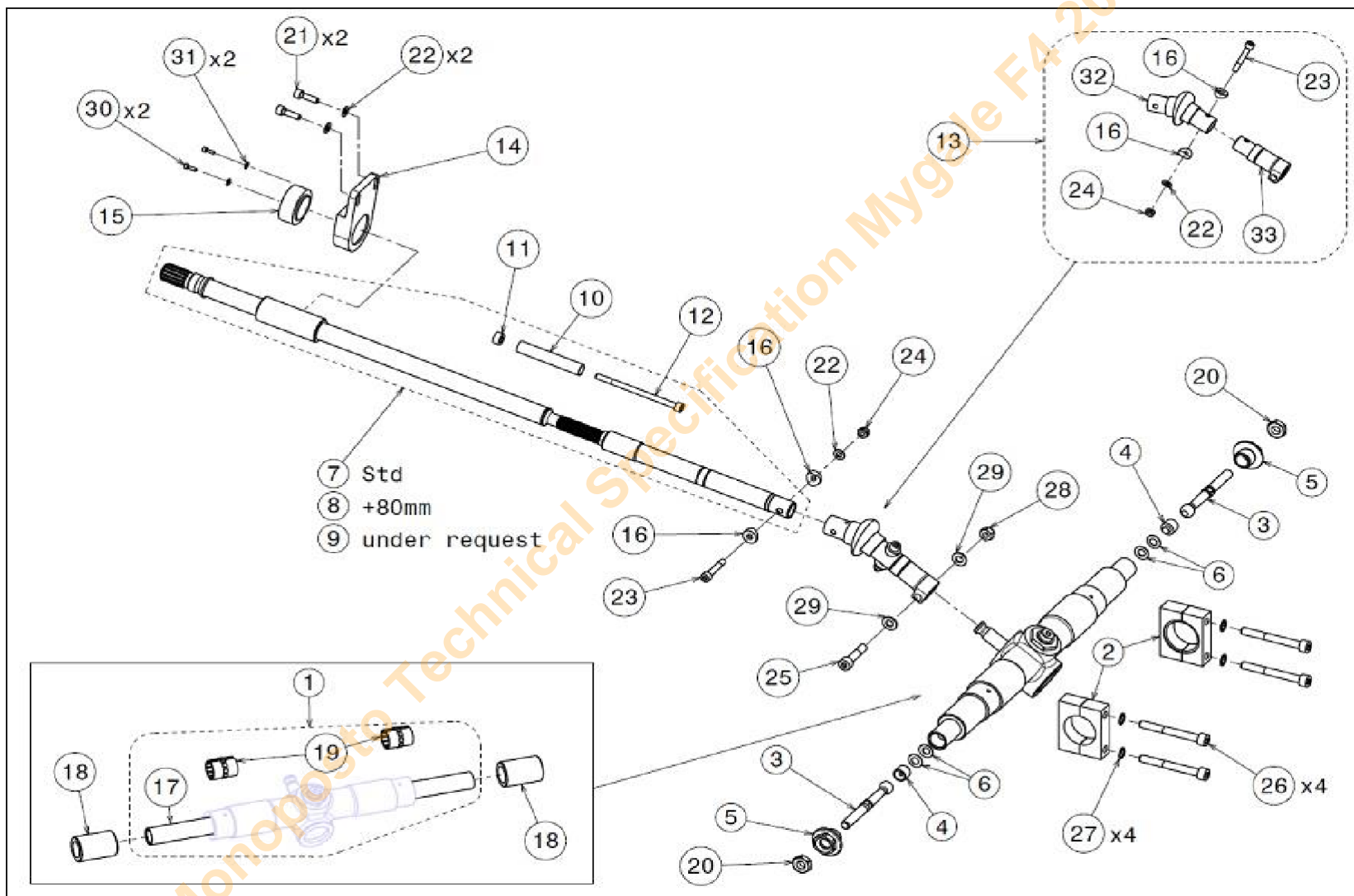
16.01 Steering column



16.01 Steering column

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.16.007	Steering rack, complete	1	x	1
2	F.41.16.033	Steering rack bracket	2	x	1
3	F.41.16.009	Ball joint, steering rack	2	x	1
4	F.41.16.010	Rack bush	2	x	1
5	F.41.16.012	Locknut, steering rack	2	x	1
6	F.41.16.011	Shim, steering rack	-	x	3
7	F.41.16.001	Steering column	1	x	1
8	F.41.16.046	Steering column +80mm	1	Option	1
9	F.41.16.053	Steering column specific lenght (under demand)	1	Option	1
10	F.41.16.019	Collapsible device	1	Spare	1
11	F.41.16.020	Spacer, collapsible device	1	Spare	1
12	F.41.16.021	Screw, collapsible device	1	Spare	3
13	F.41.16.079	Steering column joint bolted assembly	1	Assembly part	1
14	F.41.16.032	Steering column bracket	1	x	1
15	F.41.16.002	Spherical bearing, steering column	1	x	1
16	F.41.16.048	Saddle washer, steering joint	4	x	3
17	F.41.16.036	Steering rack, bar	1	Spare	1
18	F.41.16.037	Steering rack, spacer	2	x	2
19	F.41.16.052	Linear bush, steering rack	2	Spare	1
20	AEF02.38.0001	Nut 3/8 UNF ZnBI	2	x	3
21	AVM01.06.0020	Screw CHC M6x20 cl 12.9	2	x	3
22	ARO06.06.0001	Washer small Ø6 ZnBI	4	x	3
23	AVM01.06.5036	Screw CHC M6x50 ct 36 cl 12.9	2	x	3
24	AEM01.06.0001	Nylstop nut M6 ZnBI	2	x	3
25	AVM01.08.5037	Screw CHC M8x50 ct 37 cl 12.9	1	x	3
26	AVM01.08.0070	Screw CHC M8x70 cl 12.9	4	x	3
27	ARO13.08.0001	Washer Schnorr Ø8	4	x	3
28	AEM01.08.0001	Nylstop nut M8 ZnBI	1	x	3

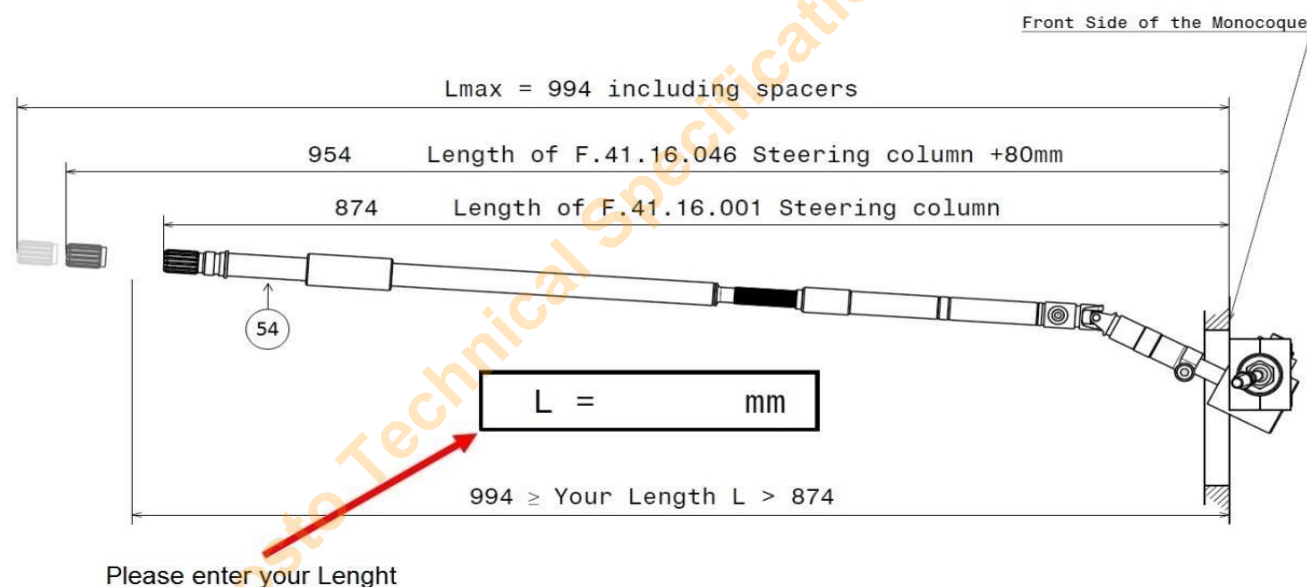
16.01 Steering column



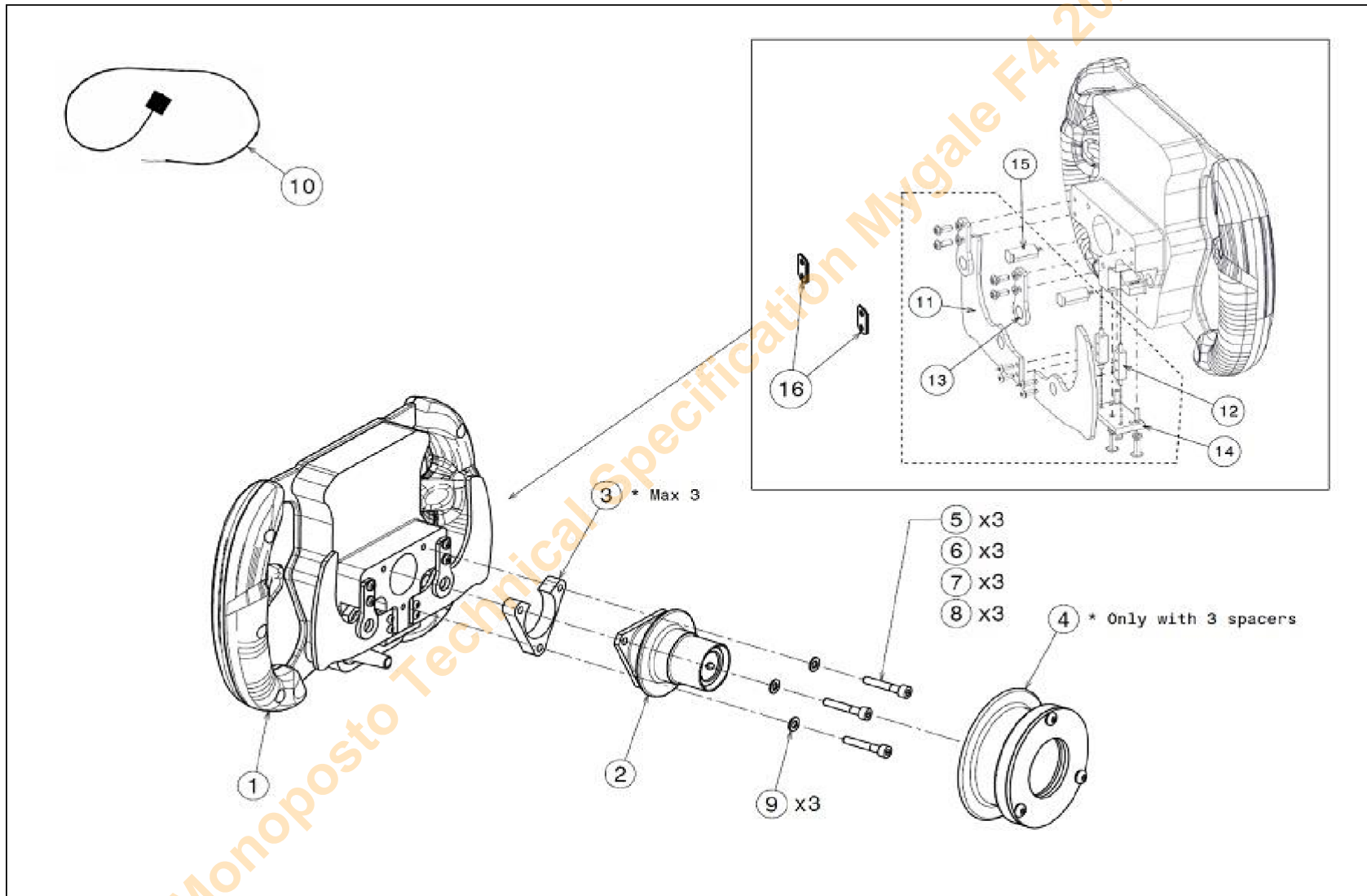
16.01 Steering column

N°	Reference	Description	Qty	STD / Opt	Type
29	ARO06.08.0001	Washer small Ø8 ZnBl	2	x	3
30	AVM01.03.0010	Screw CHC M3x10 cl 12.9	2	x	3
31	ARO07.03.0001	Washer medium Ø3x8 ZnBl	2	x	3
32	F.41.16.070	Steering joint bolted	1	x	1
33	F.41.16.071	Rack end, steering joint bolted	1	x	1

Steering column specific length (under demand):



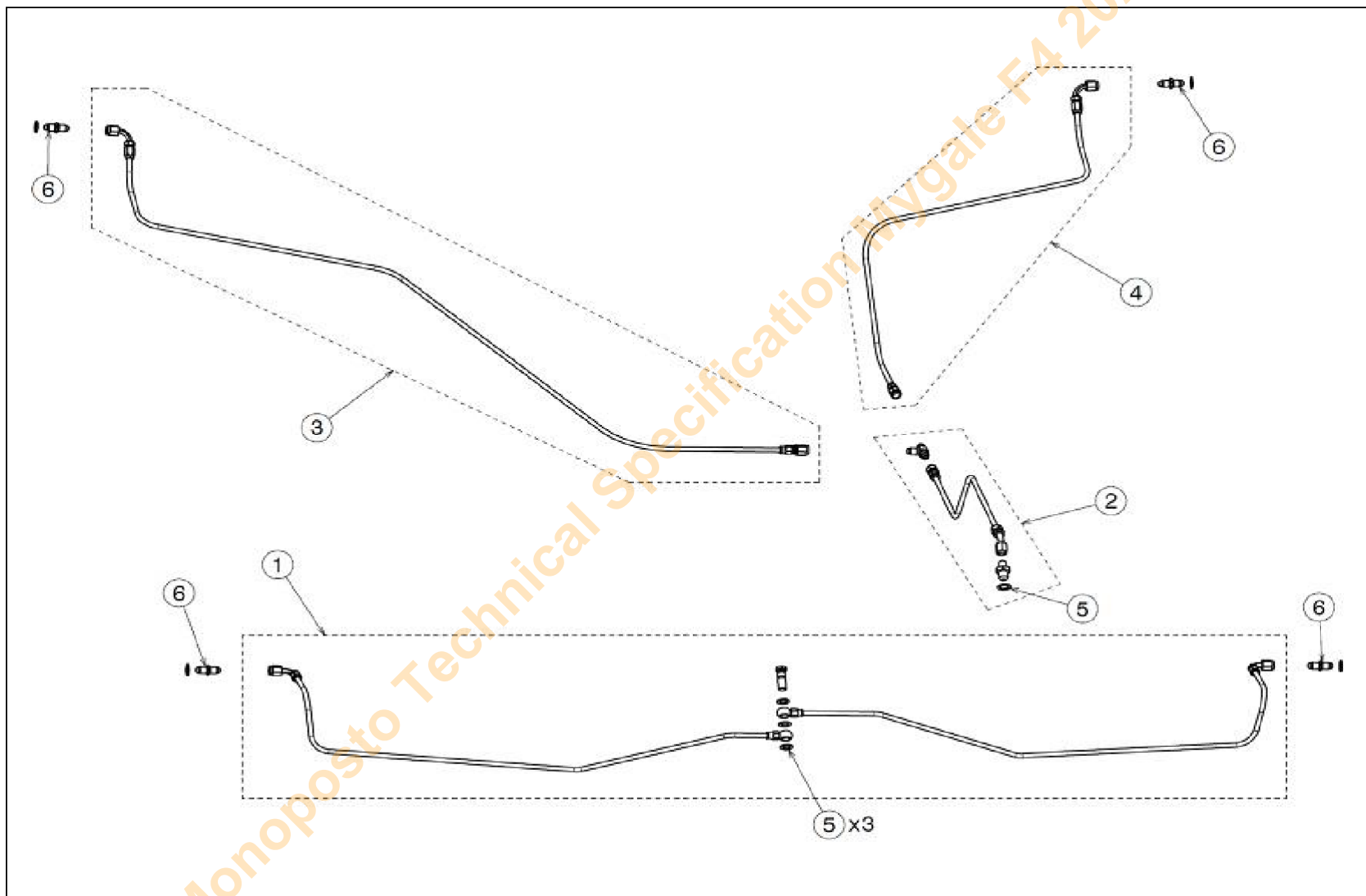
16.02 Steering wheel



16.02 Steering wheel

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.16.030	Steering wheel - optional paddle shift	1	Paddle shift	1
2	F.41.16.026	Quick release, steering wheel	1	x	1
3	F.41.16.003	Spacer, 10mm, steering wheel	1	Option	1
4	F.41.16.051	Quick release extension kit	1	Option	3
5	AVM01.05.0020	Screw CHC M5x20 cl 12.9	3	x	3
6	AVM01.05.0030	Screw CHC M5x30 cl 12.9	3	Option	3
7	AVM01.05.0040	Screw CHC M5x40 cl 12.9	3	Option	3
8	AVM01.05.0050	Screw CHC M5x50 cl 12.9	3	Option	3
9	ARO06.05.0001	Washer small Ø5 ZnBl	3	x	3
10	F.41.21.139	Radio loom with relay	1	Option	1
11	F.41.16.038	Gear-shift Pallet with magnet and screws	2	Option	3
12	F.41.16.039	Hinge with pin	2	Spare	1
13	F.41.16.040	Magnet bracket with magnet and screws	2	Spare	1
14	F.41.16.041	Pallet bracket with screws	1	Spare	1
15	F.41.16.042	Shift sensor	2	Spare	1
16	F.41.16.047	Steering wheel pallet spacer	2	Spare	1

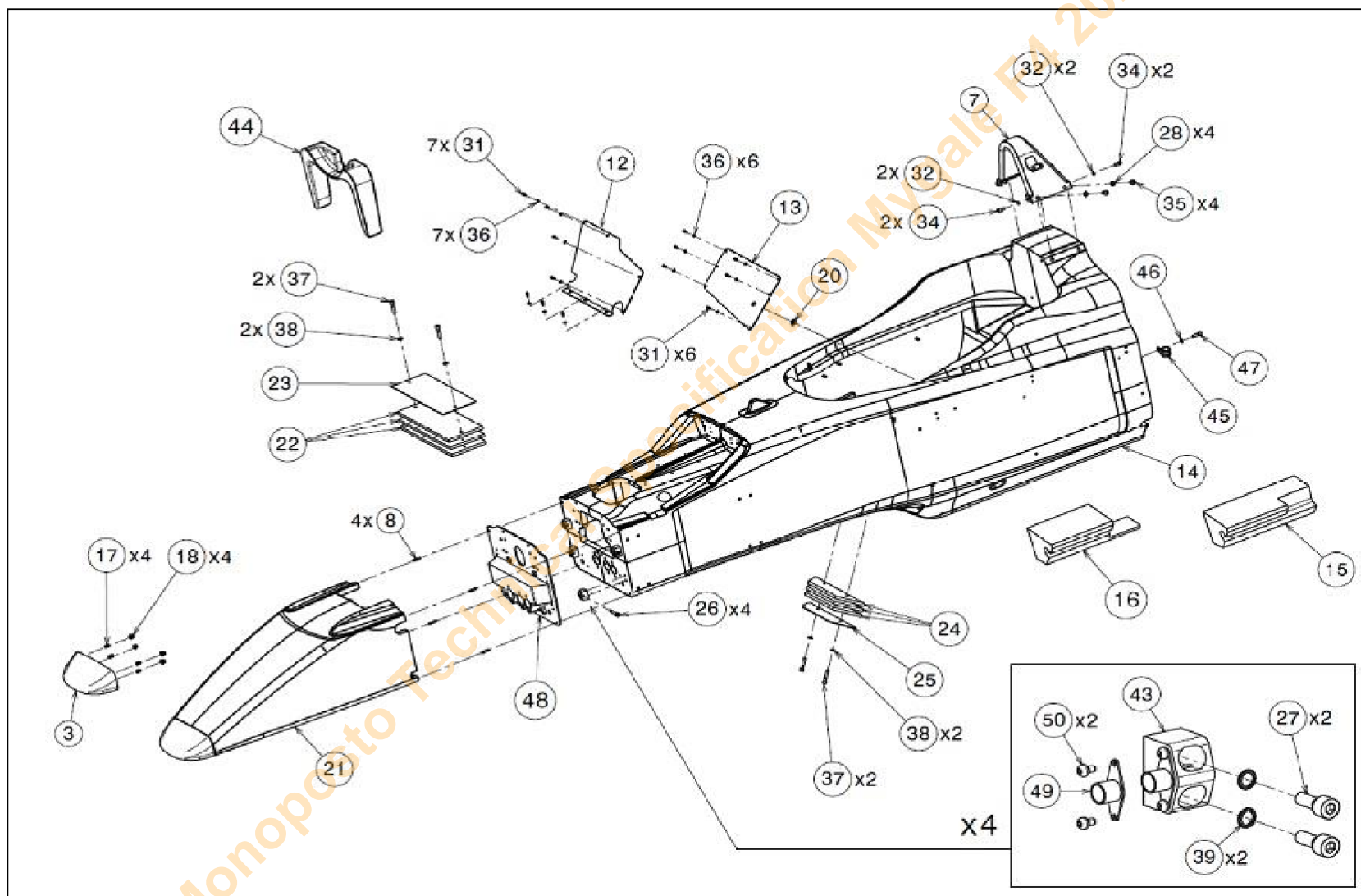
17.01 Brake hydraulics



17.01 Brake hydraulics

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.17.010	Front brake line	1	x	1
2	F.41.17.012	Rear brake line, main	1	x	1
3	F.41.17.013	Rear brake line, right	1	x	1
4	F.41.17.014	Rear brake line, left	1	x	1
5	AJO01.10.0002	Copper Seal Ø10	4	Spare	3
6	F.41.17.025	Brake adaptor kit	4	Spare	1

18.01 Monocoque



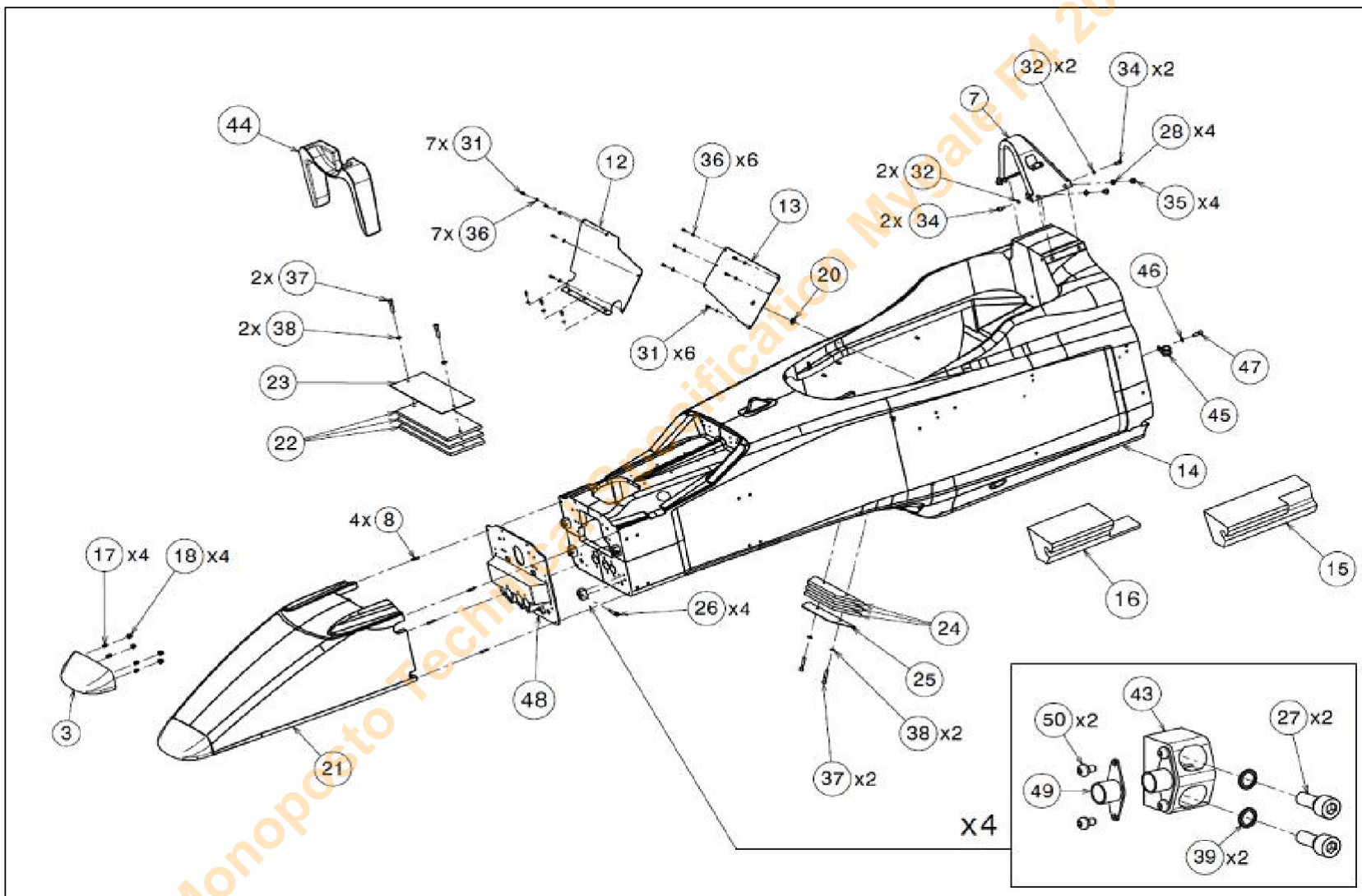
18.01 Monocoque

N°	Reference	Description	Qty	STD / Opt	Type
3	F.41.19.003	Nose cap	1	Spare	1
7	F.41.19.135	Roll hoop with camera bracket	1	x	1
8	F.41.19.134	Dowel, front crashbox 2018	4	x	1
8	F.41.19.017	Dowel, front crashbox	4	OLD	1
12	F.41.18.003	Cover plate, extinguisher and battery	1	x	1
13	F.41.18.002	Cover plate, fuel tank access	1	x	1
14	F.41.18.007	Monocoque	1	x	1
15	F.41.18.005	Fuel tank padding	1	Spare	2
16	F.41.18.016	Fuel tank padding EVO	1	x	2
17	F.41.19.019	Nose cap clip	4	Spare	1
18	F.41.19.020	Nose cap female clip	4	Spare	1
20	F.41.18.009	Cable passes	1	x	1
21	F.41.19.057	Assembly front crashbox	1	x	1
22	F.41.18.008	Monocoque ballast - cockpit 5Kg	3	Option	3
23	F.41.18.010	Cockpit ballast bracket	1	Option	3
24	F.41.18.011	Monocoque ballast - splitter 2Kg	2	Option	3
25	F.41.18.012	Splitter ballast bracket	1	Option	3
26	AVM01.08.6045	Screw CHc M8x60 ct45 cl 12.9	4	x	2
27	AVM01.06.0025	Screw CHC M6x25 cl 12.9	8	x	2
28	ARO13.10.0001	Washer Schnorr Ø10	4	x	3
31	AVM03.05.0012	Screw TBHC M5x12 cl10.9	13	x	3
32	ARO13.08.0001	Washer Schnorr Ø8	4	x	3
34	AVM01.08.0016	Screw CHC M8x16 cl 12.9	4	x	2
35	AVM03.10.0020	Screw TBHC M10x20 cl 10.9	4	x	2
36	ARO06.05.0001	Washer small Ø5 ZnBl	13	x	3
37	AVM01.08.0040	Screw CHC M8x40 cl 12.9	4	Option	3
38	ARO06.08.0001	Washer small Ø8 ZnBl	4	Option	3
39	ARO13.06.0001	Washer Schnorr Ø6	8	x	3

*OLD: Before Safety kit 2018 update

** Need to order the new bonded camera bracket with the new main roll hoop

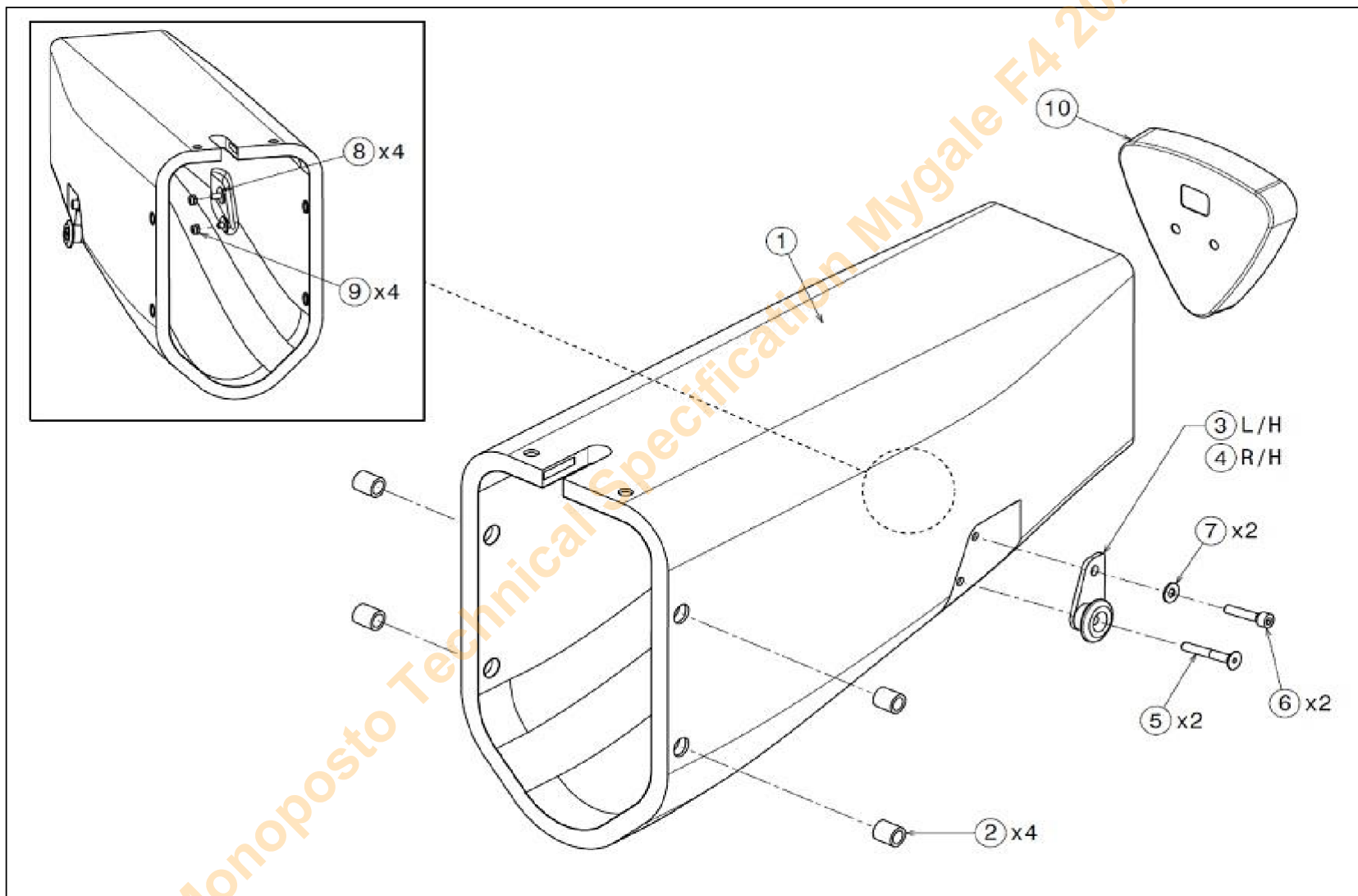
18.01 Monocoque



18.01 Monocoque

N°	Reference	Description	Qty	STD / Opt	Type
43	F.41.19.058	Bracket, front crash box, with captive nut	4	x	1
44	F.41.18.014	Knees protection	1	Option	3
45	ACO03.20.0001	P clips Ø20 hole Ø8.4	1	x	3
46	ARO06.08.0001	Washer small Ø8 ZnBl	1	x	3
47	AVM01.08.0025	Screw CHC M8x25 cl 12.9	1	x	3
48	F.41.19.130	Front anti intrusion panel 2018	1	x	1
49	AEM12.08.0001	Captive nut M8	4	Spare	3
50	AVM03.03.0005	Screw TBHC M3x5 cl 10.9	8	Spare	3

19.01 Rear impact structure 2018

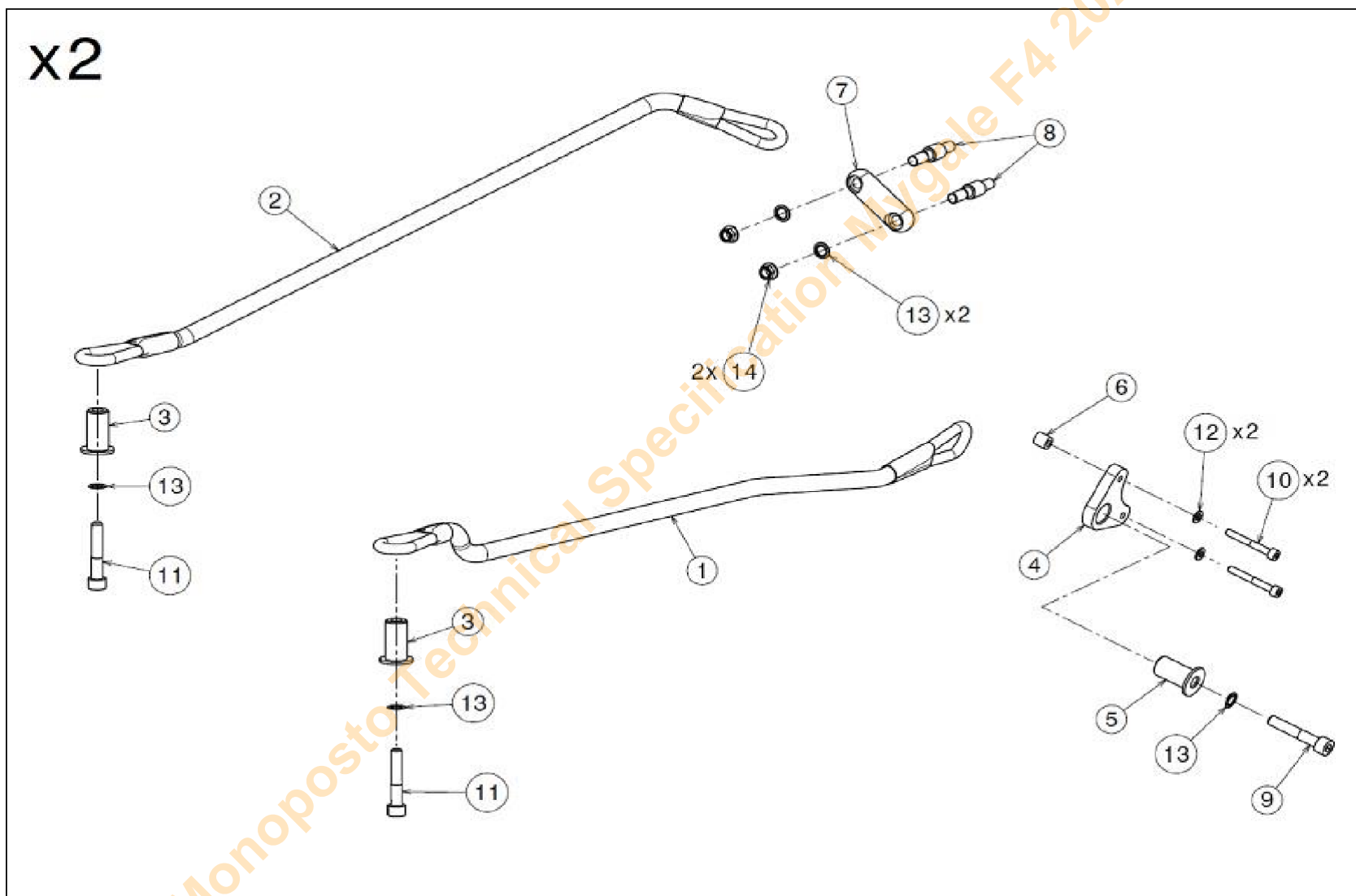


19.01 Rear impact structure 2018

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.19.129	Rear crashbox 2018	1	x	1
1	F.41.19.002	Rear crashbox	1	OLD	1
2	F.41.19.031	Bush D12	4	x	1
3	F.41.19.127	Bracket, Rear jack L/H	1	x	1
4	F.41.19.128	Bracket, Rear jack R/H	1	x	1
5	AVM04.05.1040	Screw TFHc M5x40 full thread cl 10.9	2	x	3
6	AVM01.05.0025	Screw CHC M5x25 cl 12.9	2	x	3
7	ARO07.05.0001	Washer medium Ø5x12 ZnBl	2	x	3
8	ARO09.05.0001	Washer large Ø5x16 ZnBl	4	x	3
9	AEM01.05.0001	Nylstop nut M5 ZnBl	4	x	3
10	F.41.21.164	Rain light cover	1	Option	1

*OLD: Before Safety kit 2018 update

19.02 Wheel cables

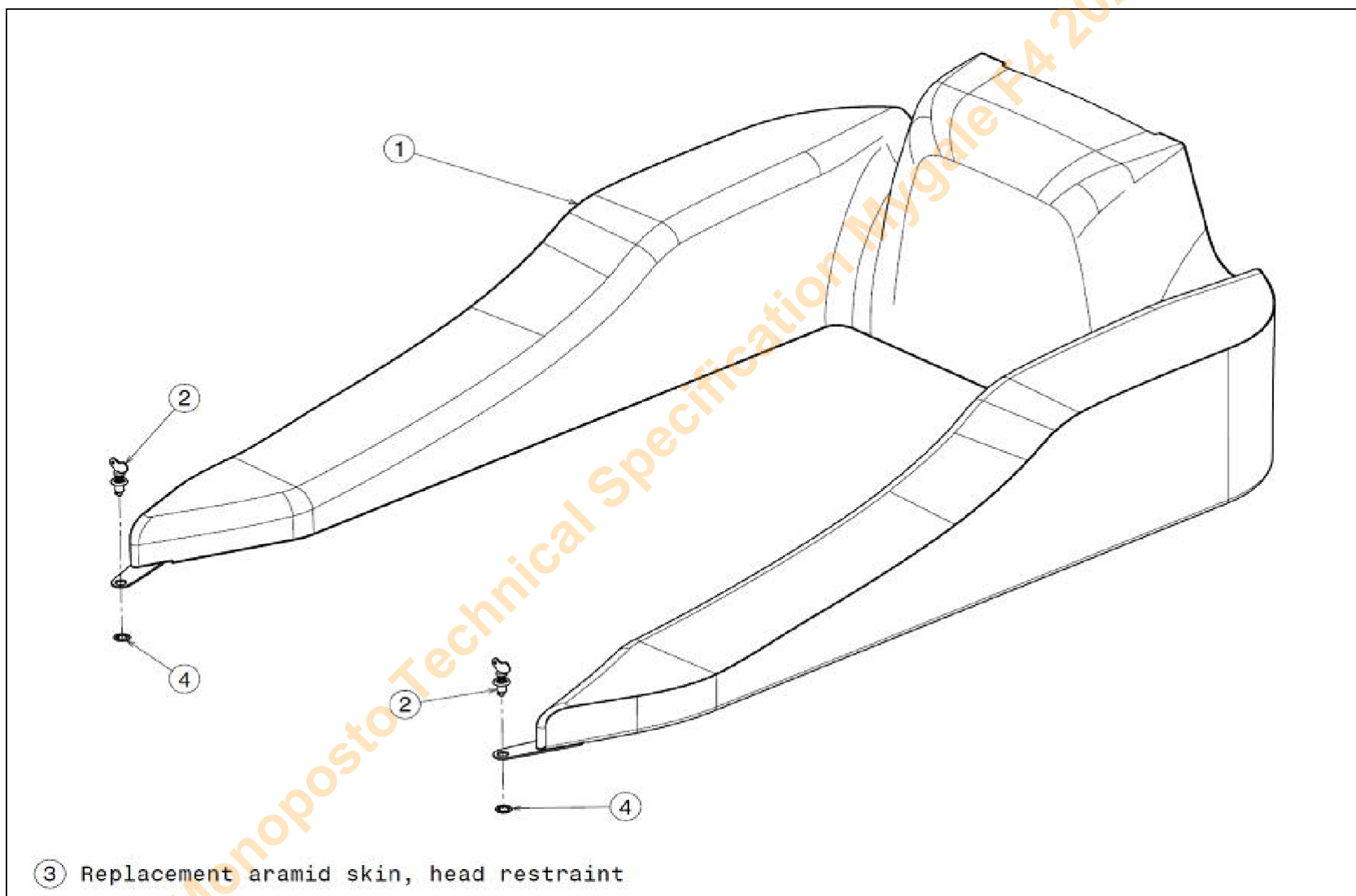


19.02 Wheel cables

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.19.034	Front wheel cable	2	x	1
2	F.41.19.035	Rear wheel cable	2	x	1
3	F.41.19.032	Wheel tether shaft, upright	4	x	1
4	F.41.19.033	Front wheel tether plate	2	x	1
5	F.41.19.133	Shaft, front wheel tether 2018	2	x	1
5	F.41.19.046	Shaft, front wheel tether	2	OLD	1
6	F.41.19.045	Bush, front wheel tether	2	x	1
7	F.41.19.037	Mounting, rear wheel cable	2	x	1
8	F.41.19.095	Stubbolt M8x50	4	x	1
9	AVM01.08.0045	Screw CHC M8x45 cl 12.9	2	x	3
10	AVM01.05.0040	Screw CHC M5x40 cl 12.9	4	x	3
11	AVM06.08.0045	Screw CHC M8x45 full thread cl12.9	4	x	3
12	ARO06.05.0001	Washer small Ø5 ZnBl	4	x	3
13	ARO13.08.0001	Washer Schnorr Ø8	10	x	3
14	AEM06.08.0001	K-nut M8	4	x	3

*OLD: Before Safety kit 2018 update

19.03 Head restraint

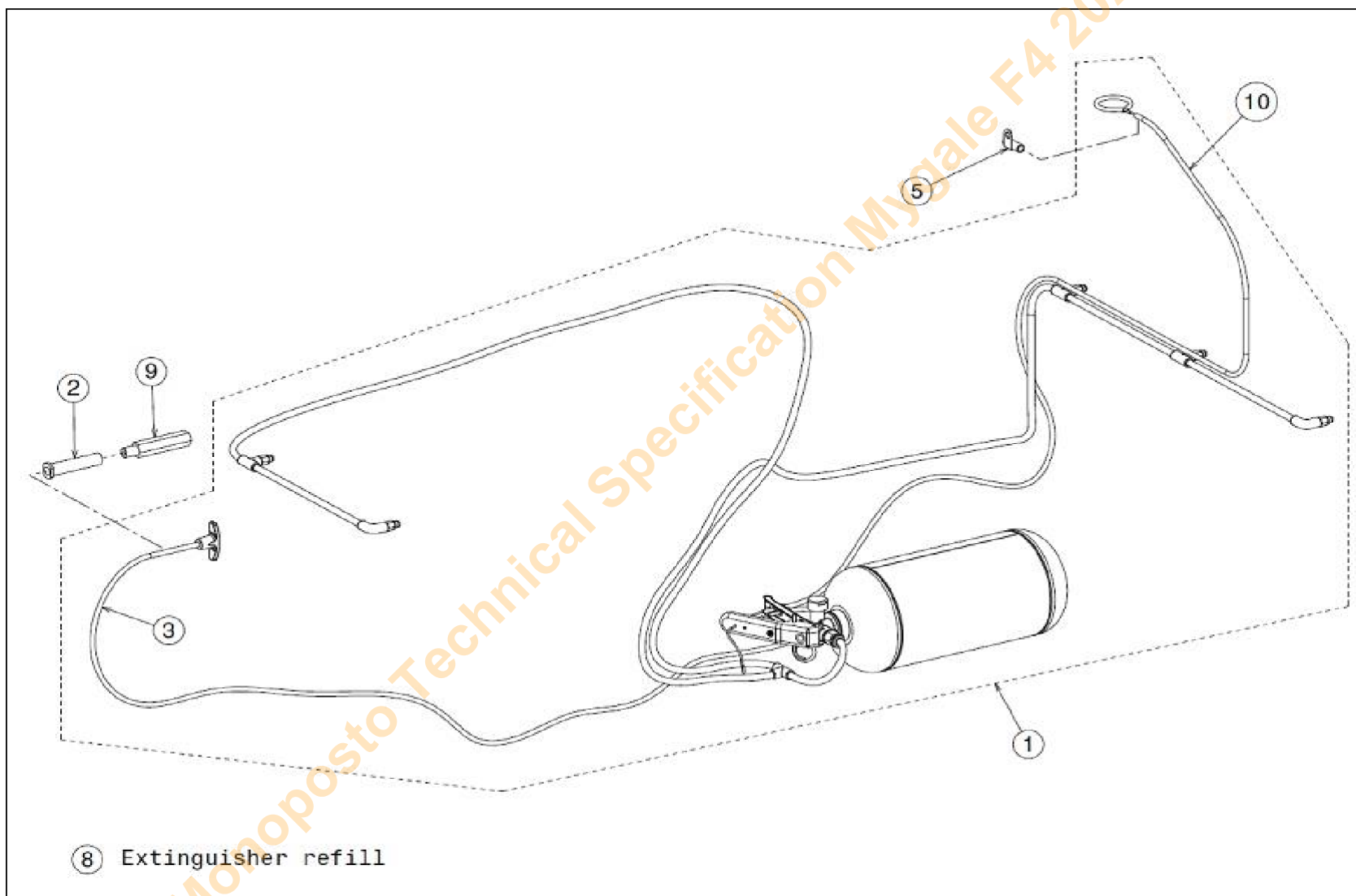


19.03 Head restraint

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.19.009	Head restraint	1	x	1
2	AFC06.00.0003	Camloc Wing Nut 2600-03	2	x	1
3	F.41.19.060	Replacement aramid skin, head restraint	1	Repair	1
4	AFC07.00.0001	Camloc Washer	2	x	3

Monoposto Technical Specification Mysale V2.4 2023

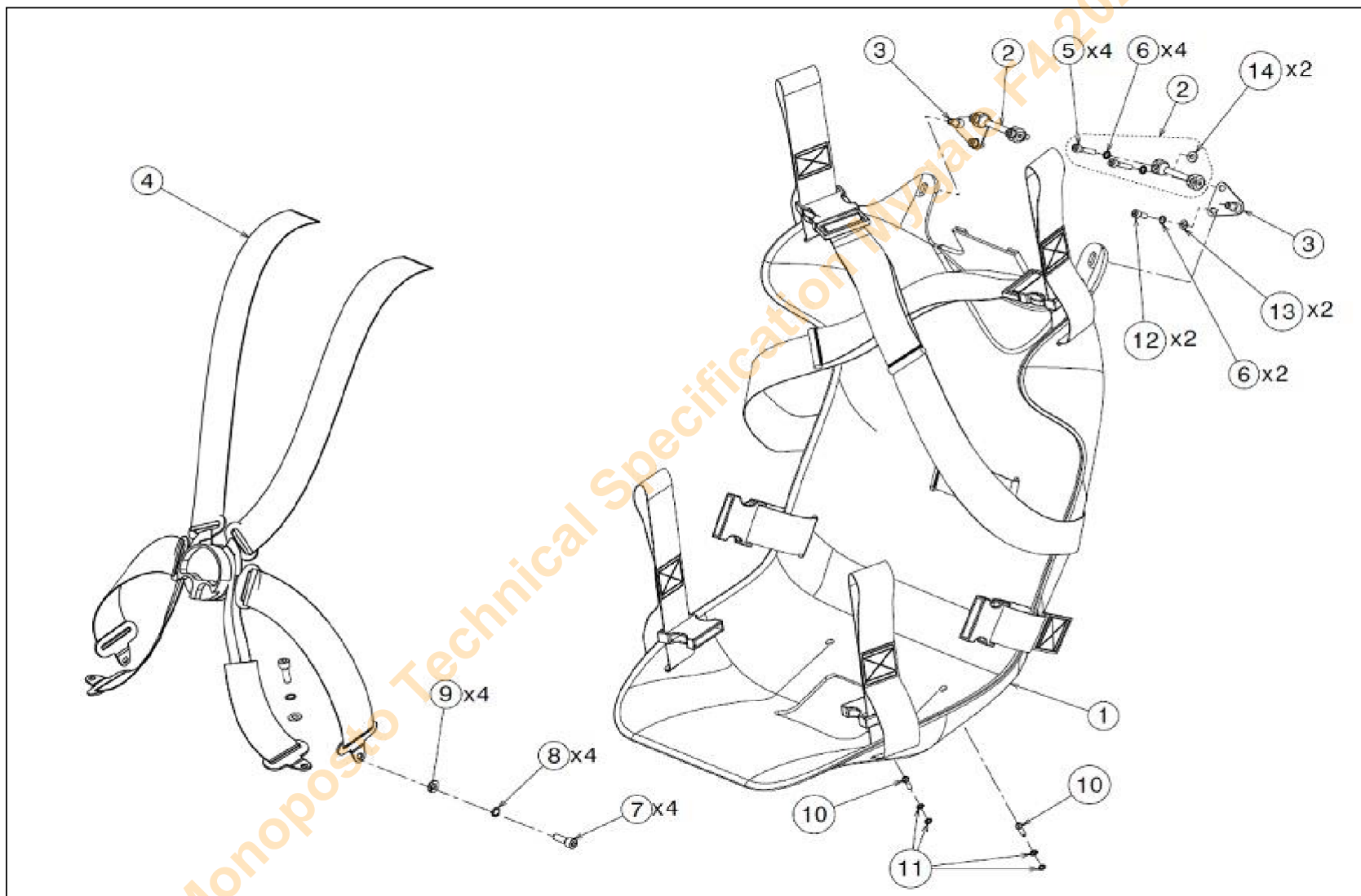
19.04 Extinguisher



19.04 Extinguisher

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.19.050	Fire extinguisher	1	x	1
2	F.41.19.056	Bush, extinguisher cable	1	x	1
3	F.41.19.054	Extinguisher cable, cockpit	1	Spare	1
5	F.41.21.058	Stop sleeve bracket	1	x	1
8	F.41.19.059	Extinguisher refill	1	Repair	1
9	F.41.19.061	Spacer, extinguisher cable	1	Option	2
10	F.41.19.063	Extinguisher cable with loop	1	Spare	1

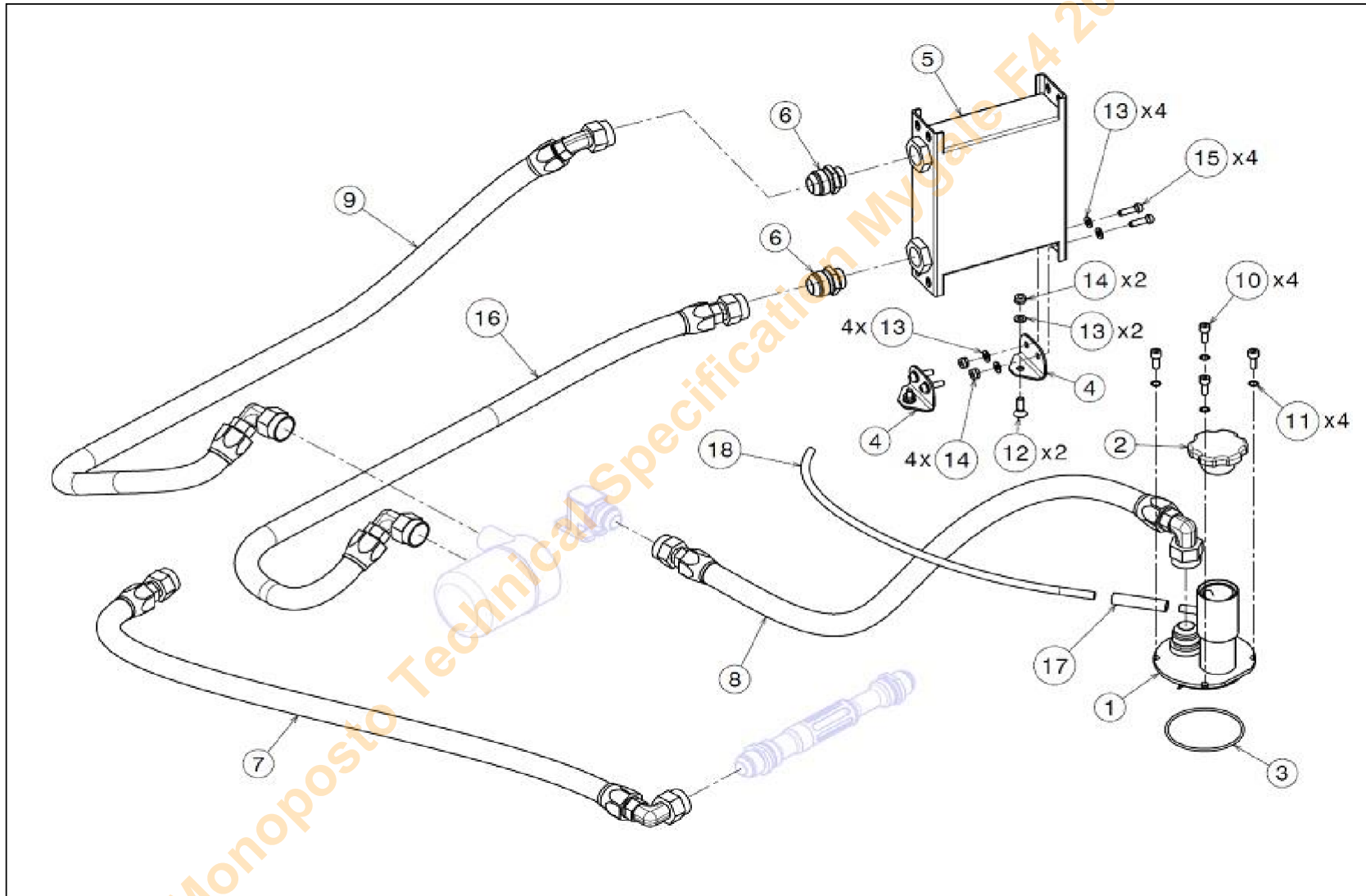
19.05 Belt and seat



19.05 Belt and seat

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.19.066	Assembly exctractible seat 2017	1	x	1
2	F.41.19.142	Kit seatbelt bracket	2	x	1
3	F.41.19.093	Upper centring, seat	2	x	1
4	F.41.19.131	Harness adjustable, 335mm	1	x	1
5	AVM01.06.0030	Screw CHC M6x30 cl 12.9	4	x	2
6	ARO13.06.0001	Washer Schnorr Ø6	6	x	3
7	AVM01.08.0025	Screw CHC M8x25 cl 12.9	4	x	2
8	ARO13.08.0001	Washer Schnorr Ø8	4	x	3
9	ARO06.08.0001	Washer small Ø8 ZnBl	4	x	3
10	F.41.19.094	Lower centring, seat	2	x	1
11	ARO13.05.0001	Schnorr washer Ø5	4	x	3
12	AVM01.06.0016	Screw CHC M6x16 cl 12.9	2	x	3
13	ARO06.06.0001	Washer small Ø6 ZnBl	2	x	3
14	F.41.19.143	Shim seatbelt bracket	2	x	3

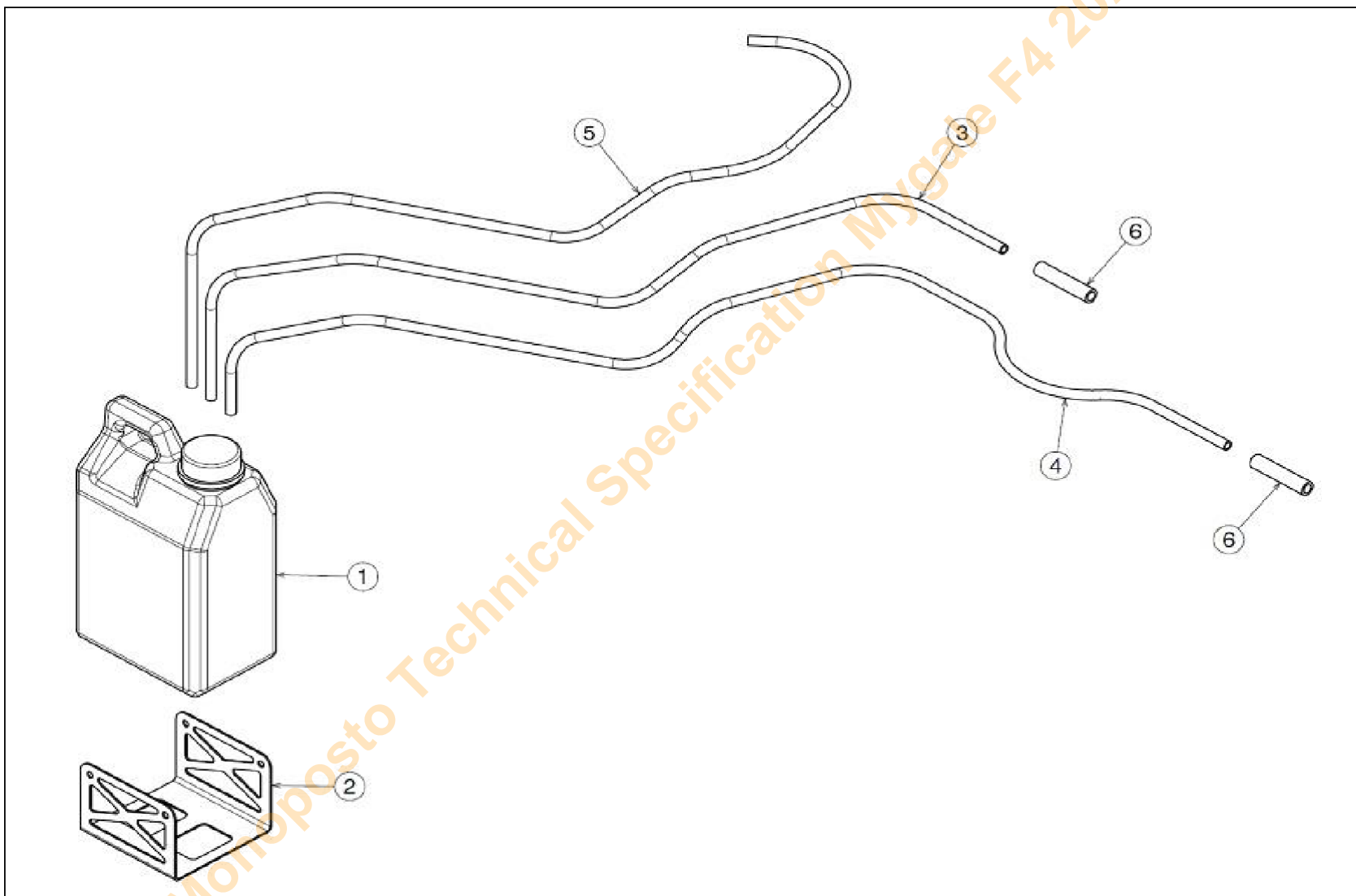
20.01 Oil system Ford



20.01 Oil system Ford

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.20.128	Oil tank adaptor Evo	1	x	1
2	F.41.20.021	Cap, oil tank adaptor	1	x	1
3	AJO03.73.0262	O Ring Ø72.69x2.62	1	x	3
4	F.41.20.018	Bracket, oil radiator	2	Option	1
5	F.41.20.006	Oil radiator	1	Option	2
6	AAD02.12.0022	Adapter M22x1.5 / JiC dash 12	2	Option	1
7	F.41.20.070	Oil line Ford DASH 12 - OUT oil tank - IN engine	1	x	1
8	F.41.20.131	Oil line Ford DASH 12 - OUT engine - IN oil tank Evo	1	x	1
9	F.41.20.076	Oil line Ford DASH 12 - OUT radiator	1	Option	1
10	AVM01.06.0016	Screw CHC M6x16 cl 12.9	4	x	3
11	ARO13.06.0001	Washer Schnorr Ø6	4	x	3
12	AVM04.06.0020	Screw TFHC M6x20 cl 10.9	2	Option	3
13	ARO06.06.0001	Washer small Ø6 ZnBl	10	Option	3
14	AEM01.06.0001	Nylstop nut M6 ZnBl	6	Option	3
15	AVM03.06.0020	Screw TBHC M6x20 cl 10.9	4	Option	3
16	F.41.20.075	Oil line Ford DASH 12 - IN radiator	1	Option	1
17	ATU01.08.0055	Hose Ø8x12 L55	1	x	3
18	ATU01.05.0400	Hose Ø5,5x8 L400	1	x	3

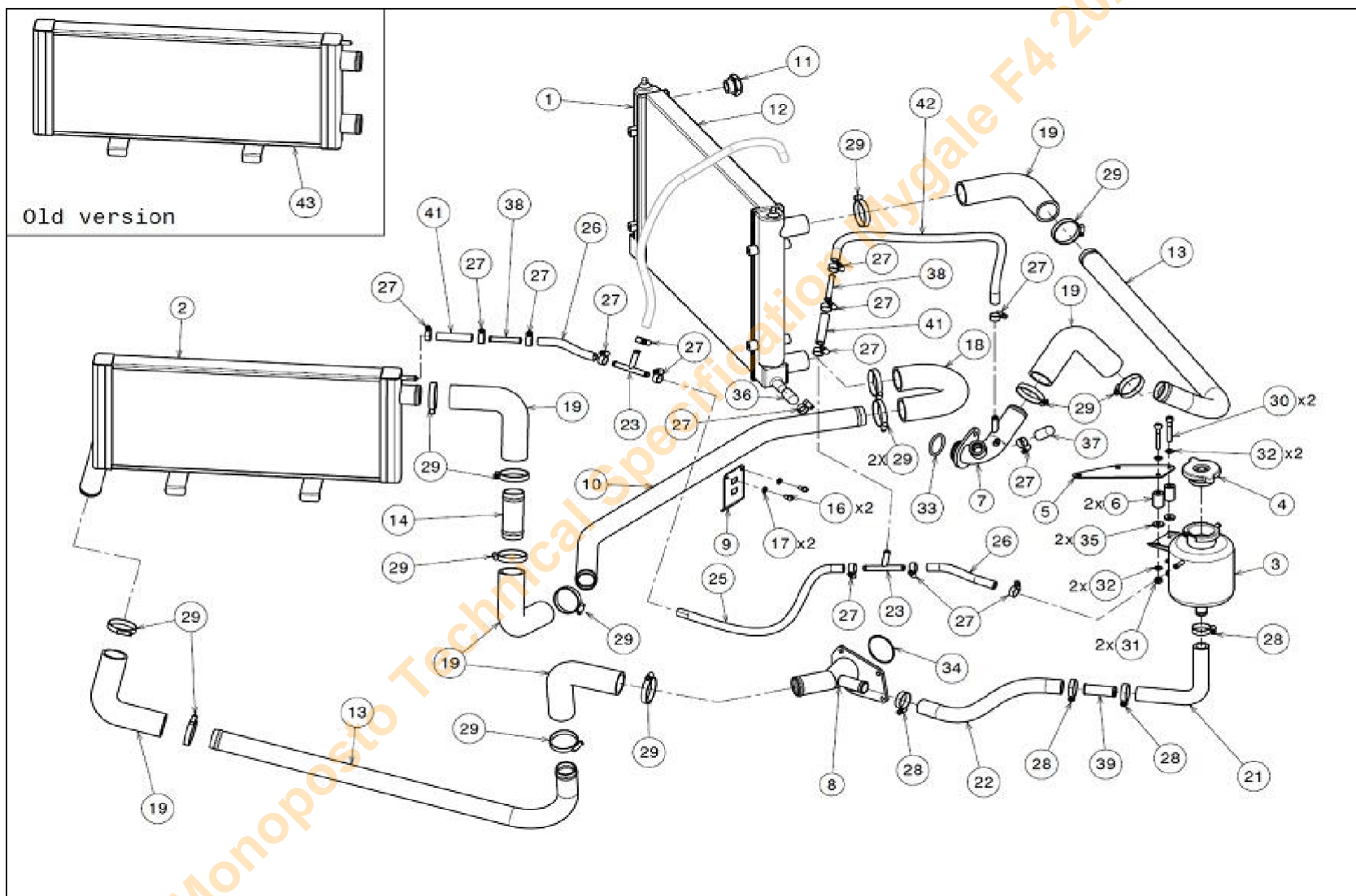
20.02 Catch tank Ford



20.02 Catch tank Ford

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.20.005	Catch tank	1	x	1
2	F.41.20.096	Bracket, catch tank	1	x	1
3	ATU01.05.0850	Hose Ø5,5x8 L850	1	x	3
4	ATU01.05.1100	Hose Ø5,5x8 L1100	1	x	3
5	ATU01.05.0900	Hose Ø5,5x8 L900	1	x	3
6	ATU01.08.0055	Hose Ø8x12 L55	2	x	3

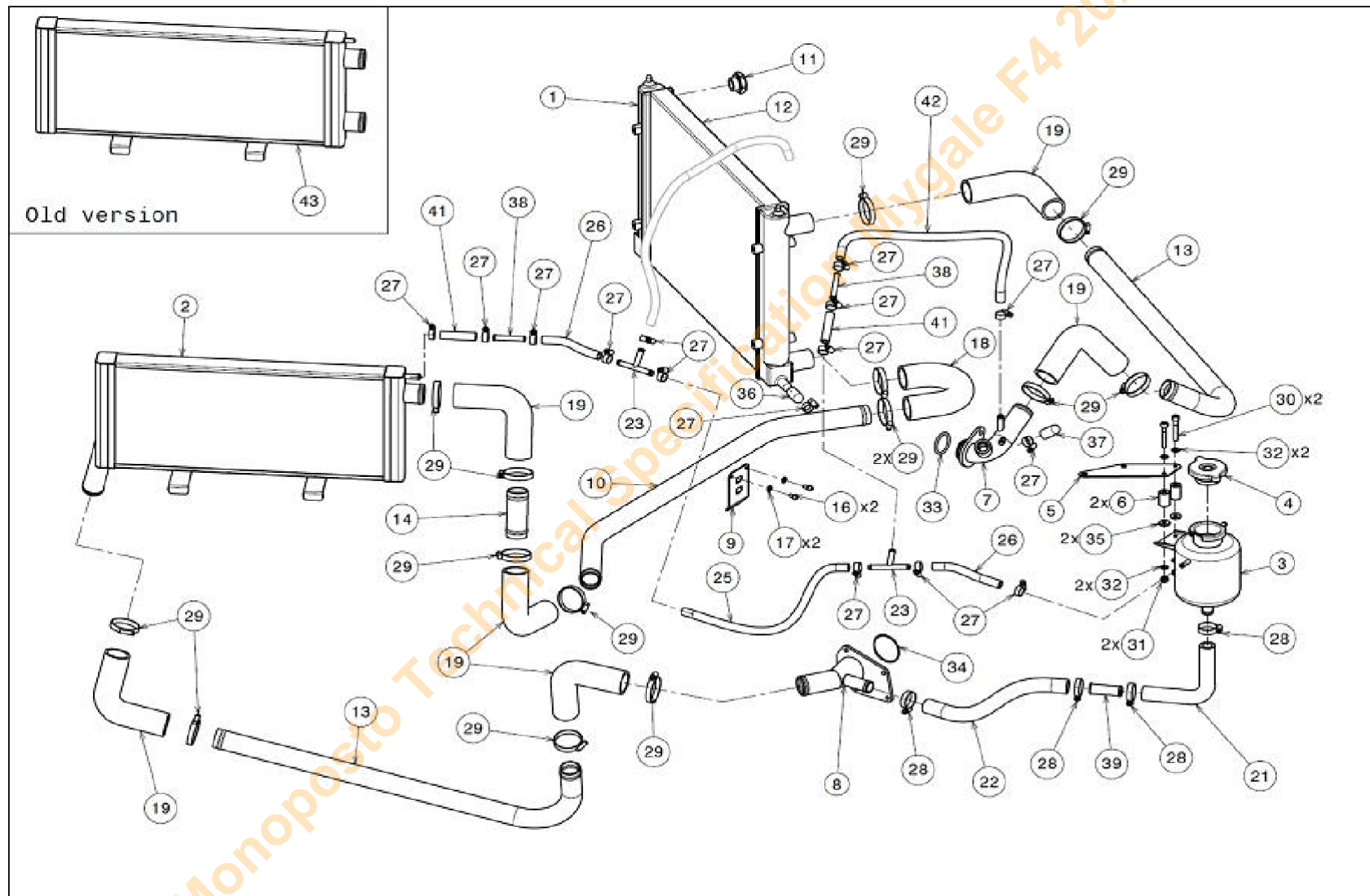
20.03 Water cooling circuit Ford



20.03 Water cooling circuit Ford

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.20.119	Water radiator with caps	1	x	1
2	F.41.20.132	Left water radiator, Ford	1	x	1
3	F.41.20.042	Header tank 0.7l	1	x	1
4	F.41.20.117	Cap, 2 bars, header tank	1	x	3
5	F.41.20.068	Bracket, header tank, Ford	1	x	1
6	F.41.20.085	Spacer, header tank, Ford	2	x	1
7	F.41.20.090	Water outlet, Ford engine	1	x	1
8	F.41.20.091	Water inlet, Ford engine	1	x	1
9	F.41.20.043	Bracket, water pipe	1	x	1
10	F.41.20.029	Water tube, radiators	1	x	1
11	ARA24.22.1150	Plug radiator M22x1.50	1	Spare	1
12	F.41.20.203	Radiator protection	2	Spare	3
13	F.41.20.082	Water tube, engine outlet	2	x	1
14	F.41.20.083	Water tube	1	x	1
16	AVM03.05.0010	Screw TBHC M5x10 cl10.9	2	x	3
17	ARO06.05.0001	Washer small Ø5 ZnBl	2	x	3
18	F.41.20.026	Silicone hose 180° Ø32 resized	1	x	2
19	ADU03.32.0090	Silicone hose 90° Ø32	6	x	2
21	ADU03.16.0090	Silicone hose 90° Ø16	1	x	2
22	ADU03.16.0001	Hose Ø16 L330	1	x	2
23	F.41.20.182	Metal T connection Ø8	2	x	1
25	ADU02.13.0400	Fuel hose Ø13 long 400	1	x	2
26	ADU02.13.0130	Fuel hose Ø13 long 130	2	x	2
27	ACO02.08.0016	Collar Tie Clips Ø8-16	15	x	3
28	ACO02.16.0027	Collar Tie Clips Ø16-27	4	x	3
29	ACO03.25.0040	Collar Tie Clips Ø25-40	14	x	3
30	AVM01.06.0040	Screw CHC M6x40 cl 12.9	2	x	3

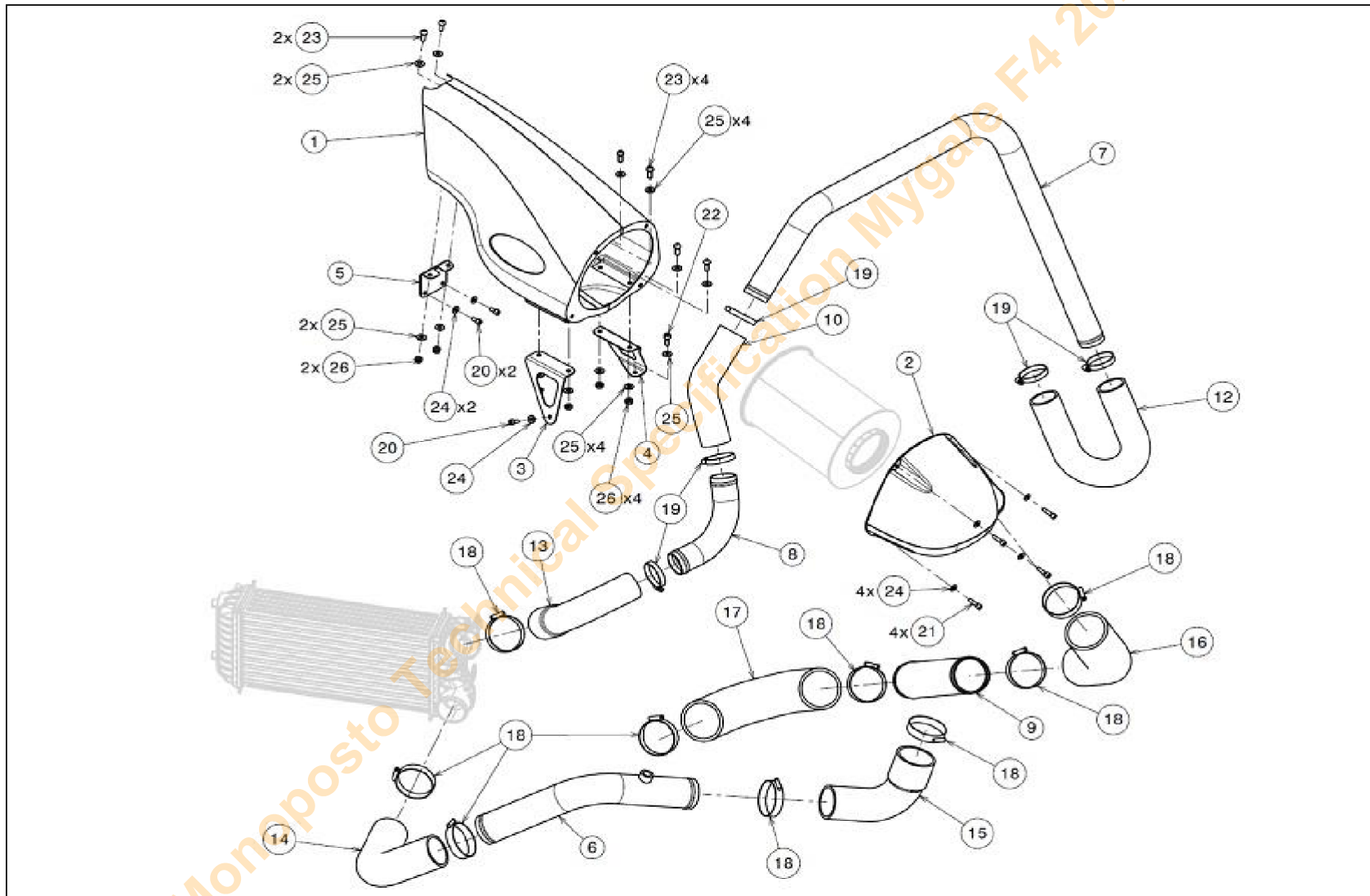
20.03 Water cooling circuit Ford



20.03 Water cooling circuit Ford

N°	Reference	Description	Qty	STD / Opt	Type
31	AEM01.06.0001	Nylstop nut M6 ZnBl	2	x	3
32	ARO06.06.0001	Washer small Ø6 ZnBl	4	x	3
33	AJO03.30.0360	O Ring Ø30.8x3.6	1	x	3
34	AJO03.46.0200	O Ring Ø46x2	1	x	3
35	F.41.20.109	Rubber washer Ø16-6.5 thk 3mm	2	x	3
36	F.41.20.122	Silicone blanking cap Ø8	1	Spare	3
37	F.41.20.122	Silicone blanking cap Ø8	1	x	3
38	F.41.20.123	Debulking caliber Ø8-Ø3mm	2	x	1
39	F.41.20.124	Debulking caliber Ø16-Ø5mm	1	x	1
41	ADU02.13.0058	Fuel hose Ø13 Long 58	2	x	2
42	ADU02.13.0500	Fuel hose Ø13 long 500	1	x	2
43	F.41.20.089	Left water radiator, Ford, old version	1	Spare	1

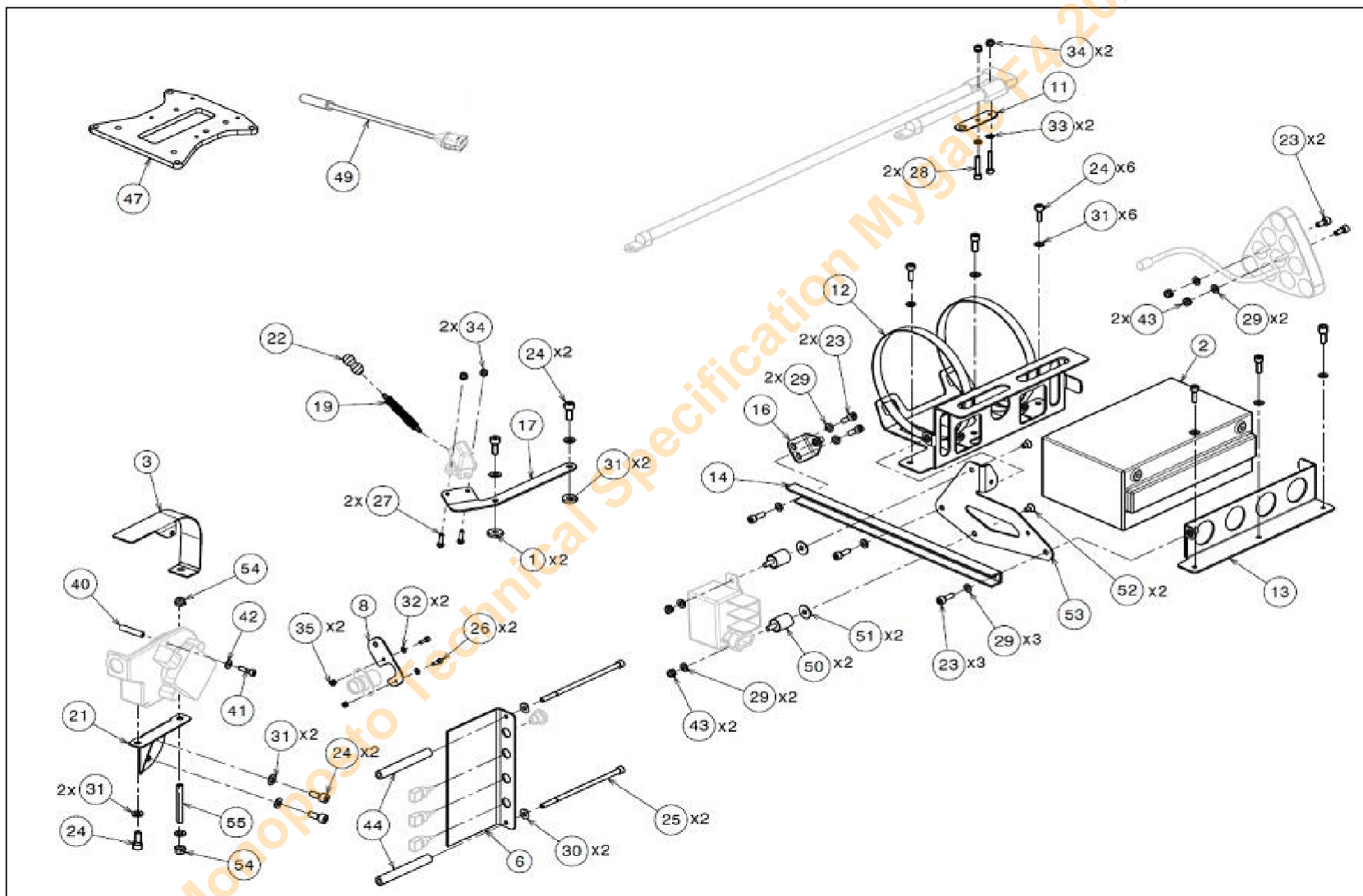
20.04 Air circuit Ford



20.04 Air circuit Ford

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.10.099	Air box Ford, front part	1	x	2
2	F.41.10.104	Air box Ford, rear part	1	x	2
3	F.41.10.066	Bracket, air box Ford, left	1	x	1
4	F.41.10.067	Bracket, air box Ford, right	1	x	1
5	F.41.10.068	Bracket, air box Ford, top	1	x	1
6	F.41.20.074	Air tube, intercooler-air intake	1	x	1
7	F.41.20.107	Air tube- turbo-intercooler 1	1	x	1
8	F.41.20.079	Air tube, turbo-intercooler 2	1	x	1
9	F.41.20.080	Air tube, air box-turbo	1	x	1
10	ADU03.38.0045	Silicone hose 45° Ø38	1	x	2
12	ADU03.38.0180	Silicone hose 180° Ø38	1	x	2
13	ADU03.45.3890	Silicone reductor hose 90° Ø45-38	1	x	2
14	ADU03.48.0090	Silicone hose 90° Ø48	1	x	2
15	ADU03.54.4890	Silicone reductor hose 90° Ø54-48	1	x	2
16	ADU03.60.0045	Silicone hose 45° Ø60	1	x	2
17	ADU03.60.0135	Silicone hose 135° Ø60	1	x	2
18	ACO03.00.5070	Collar Tie Clips Ø50-70	9	x	3
19	ACO03.32.0050	Collar Tie Clips Ø32-50	5	x	3
20	AVM01.05.0012	Screw CHC M5x12 cl 12.9	3	x	3
21	AVM01.05.0020	Screw CHC M5x20 cl 12.9	4	x	3
22	AVM01.06.0016	Screw CHC M6x16 cl 12.9	1	x	3
23	AVM03.06.0016	Screw TBHC M6x16 cl 10.9	6	x	3
24	ARO07.05.0001	Washer medium Ø5x12 ZnBl	7	x	3
25	ARO07.06.0001	Washer medium Ø6 ZnBl	13	x	3
26	AEM01.06.0001	Nylstop nut M6 ZnBl	6	x	3

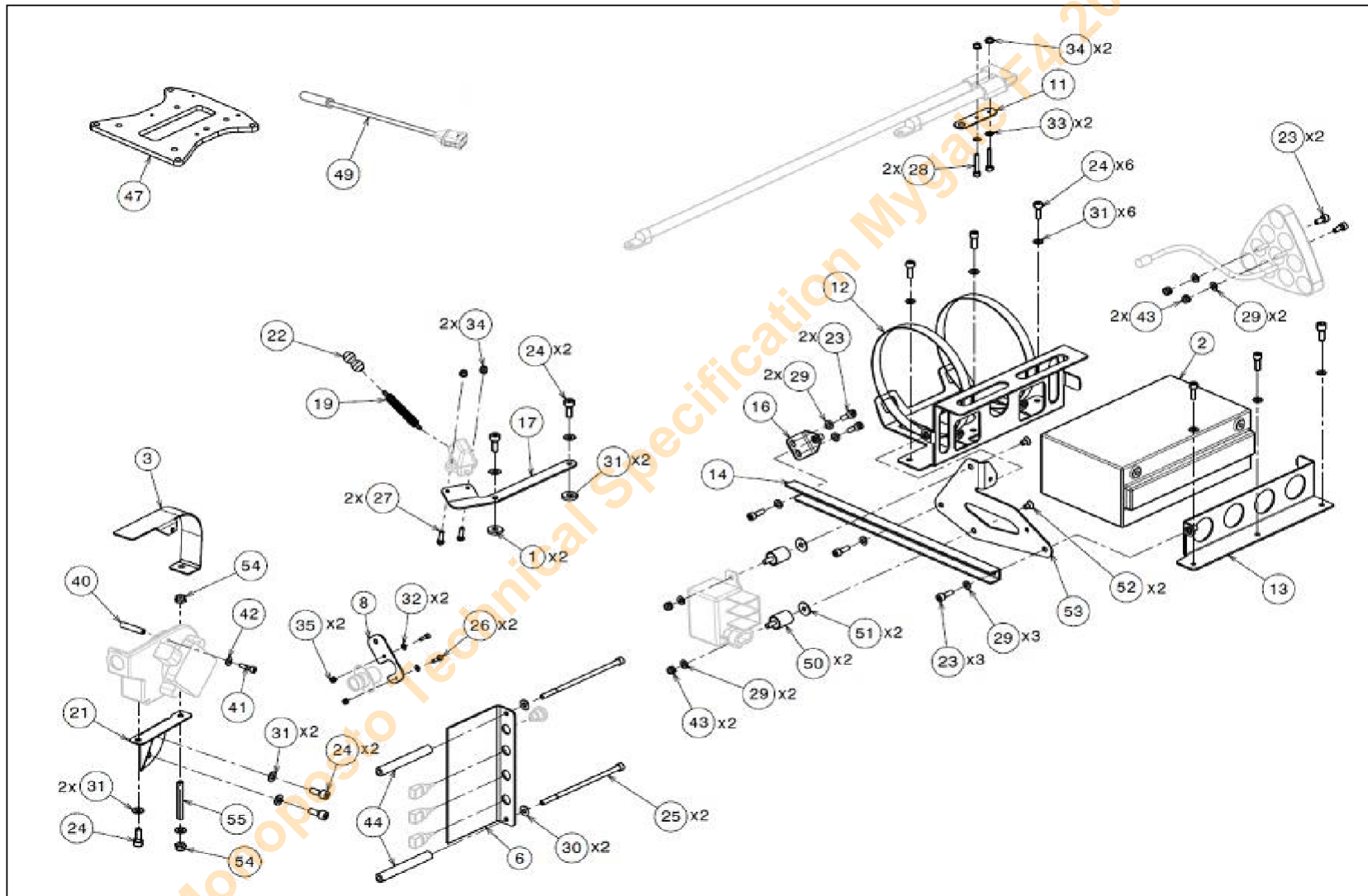
21.01 Battery and cables



21.01 Battery and cables

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.20.109	Rubber washer Ø16-6.5 thk 3mm	2	x	3
2	F.41.21.002	Battery	1	x	1
3	F.41.11.070	Throttle sensor protection	1	Option	3
6	F.41.21.152	Switch plate long	1	x	1
8	F.41.21.026	Bracket, steering wheel connector	1	x	1
11	F.41.21.042	Bracket, park plug	1	x	1
12	F.41.21.006	Bracket, battery & extinguisher, right	1	x	1
13	F.41.21.008	Bracket, battery, left	1	x	1
14	F.41.21.009	Retainer, battery and extinguisher	1	x	1
16	F.41.21.056	Bracket, extinguisher retainer	1	x	1
17	F.41.21.057	Bracket, master switch contactor	1	x	1
19	F.41.21.060	Spring, master switch contactor	1	x	1
21	F.41.21.168	TPS bracket evo	1	x	1
22	ACA.06.04.0001	Cable clamp Ø4xØ12 long26	1	x	3
23	AVM01.05.0016	Screw CHC M5x16 cl 12.9	7	x	3
24	AVM01.06.0016	Screw CHC M6x16 cl 12.9	11	x	3
25	AVM01.05.0120	Screw CHC M5x120 cl 12.9	2	x	3
26	AVM01.03.0010	Screw CHC M3x10 cl 12.9	2	x	3
27	AVM03.04.0012	Screw TBHC M4x12 cl 10.9	2	x	3
28	AVM01.04.0020	Screw CHC M4x20 cl 12.9	2	x	3
29	ARO06.05.0001	Washer small Ø5 ZnBI	9	x	3
30	ARO07.05.0001	Washer medium Ø5x12 ZnBI	2	x	3
31	ARO06.06.0001	Washer small Ø6 ZnBI	12	x	3
32	ARO06.03.0001	Washer small Ø3 ZnBI	2	x	3
33	ARO06.04.0001	Washer small Ø4 ZnBI	2	x	3
34	AEM01.04.0001	Nylstop nut M4 ZnBI	4	x	3
35	AEM01.03.0001	Nylstop nut M3 ZnBI	2	x	3
40	F.41.21.101	Spacer throttle sensor pedal	1	x	1

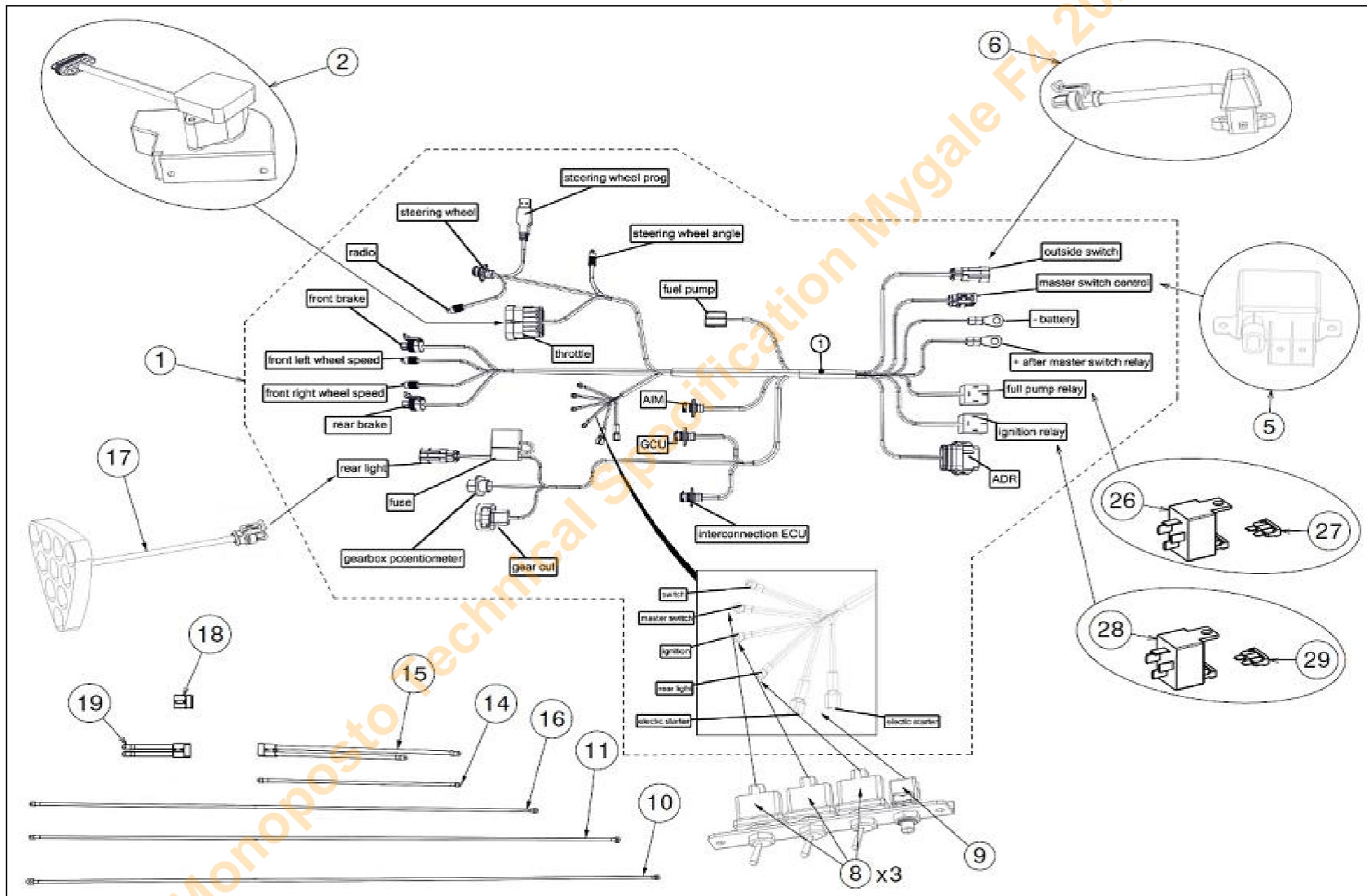
21.01 Battery and cables



21.01 Battery and cables

N°	Reference	Description	Qty	STD / Opt	Type
41	AVM01.04.0016	Screw CHC M4x16 cl 12.9	1	x	3
42	ARO07.04.0001	Washer medium Ø4x10 ZnBl	1	x	3
43	AEM01.05.0001	Nylstop nut M5 ZnBl	4	x	3
44	F.41.21.104	Long bush, switch plate	2	x	2
47	F.41.21.110	Bracket, ADR	1	Option	1
49	F.41.21.114	ADR harness, Motec	1	Option	1
50	ASB02.05.1620	Silent bloc M5 Ø16x20	2	x	3
51	ARO09.05.0001	Washer large Ø5x16 ZnBl	2	x	3
52	AVM04.05.0010	Screw TFHC M5x10 cl 10.9	2	x	3
53	F.41.21.150	Master switch bracket	1	x	3
54	AEM01.06.0001	Nylstop nut M6 ZnBl	2	x	3
55	AVM05.06.0050	Screw STBC Hc M6x50	2	x	3

21.02 Chassis main loom Ford

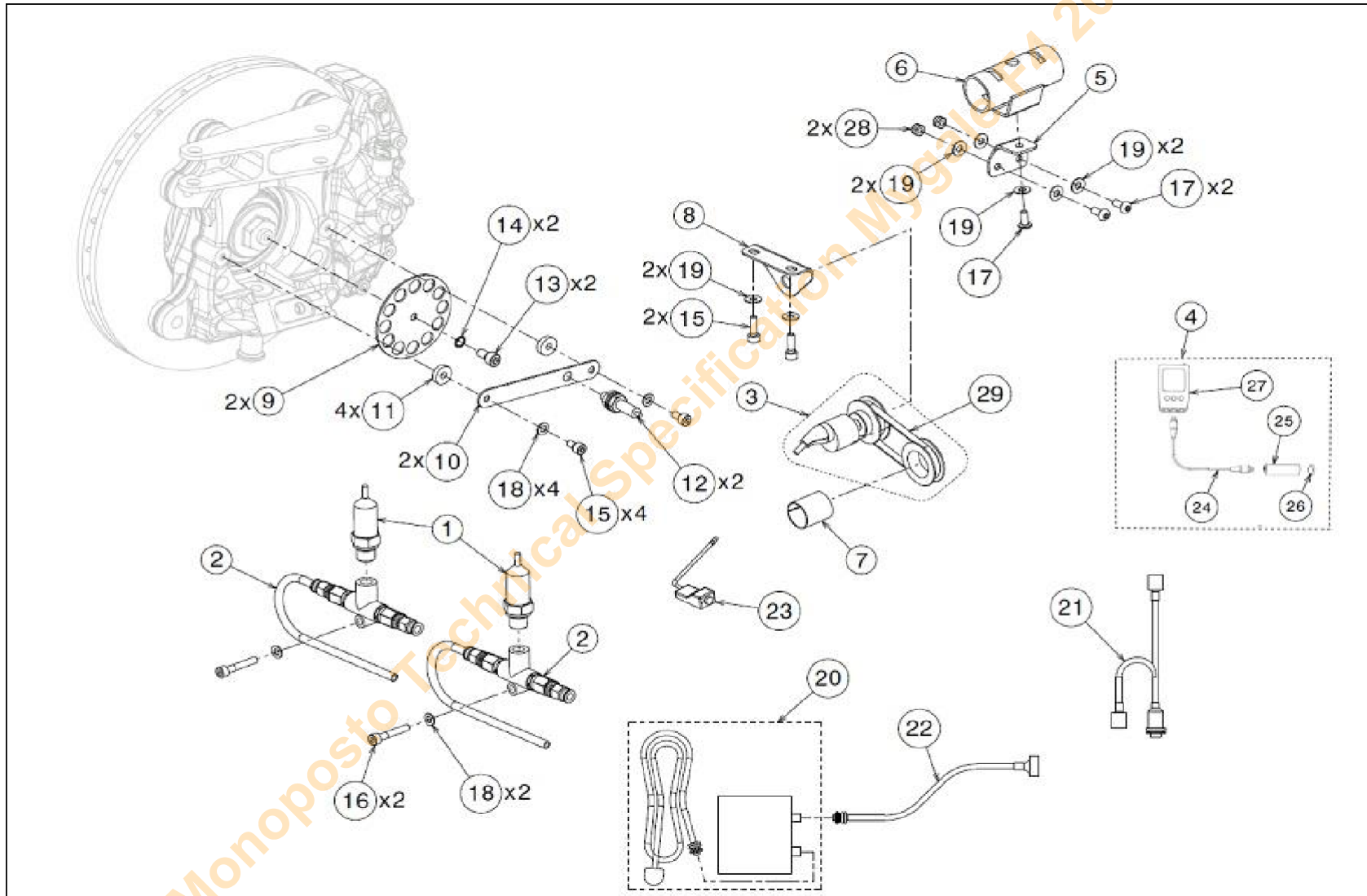


21.02 Chassis main loom Ford

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.21.046	Chassis main loom	1	x	1
2	F.41.21.021	Throttle pedal sensor	1	x	1
5	F.41.21.080	Master switch relay	1	x	1
6	F.41.21.059	Master switch contactor	1	x	1
8	F.41.21.071	Switch	3	x	1
9	F.41.21.070	Starter push button	1	x	1
10	F.41.21.094	Starter to alternator wire	1	x	1
11	F.41.21.093	Master switch relay to starter wire	1	x	1
14	F.41.21.090	Battery to master switch relay wire	1	x	1
15	F.41.21.096	Park plug	1	x	1
16	F.41.21.095	Battery ground wire	1	x	1
17	F.41.21.091	Rear light with connector	1	x	1
18	F.41.21.092	Battery park plug connector	1	Option	1
19	F.41.21.097	Battery park plug wire	1	Option	3
26	F.41.21.142	Fuel pump relay with fuse 15A	1	x	1
27	ACE04.00.0006	Fuse 15A	1	Spare	1
28	ACE04.00.0011	Relay 12V 30A with fuse 30A	1	x	1
29	ACE04.00.0010	Fuse 30A	1	Spare	1

* The chassis main loom includes a new fuel pump loom connector in 2017, the new fuel pump loom must also be ordered
(See technical bulletin F41-21-BT-06)

21.03 Acquisition Ford



21.03 Acquisition Ford

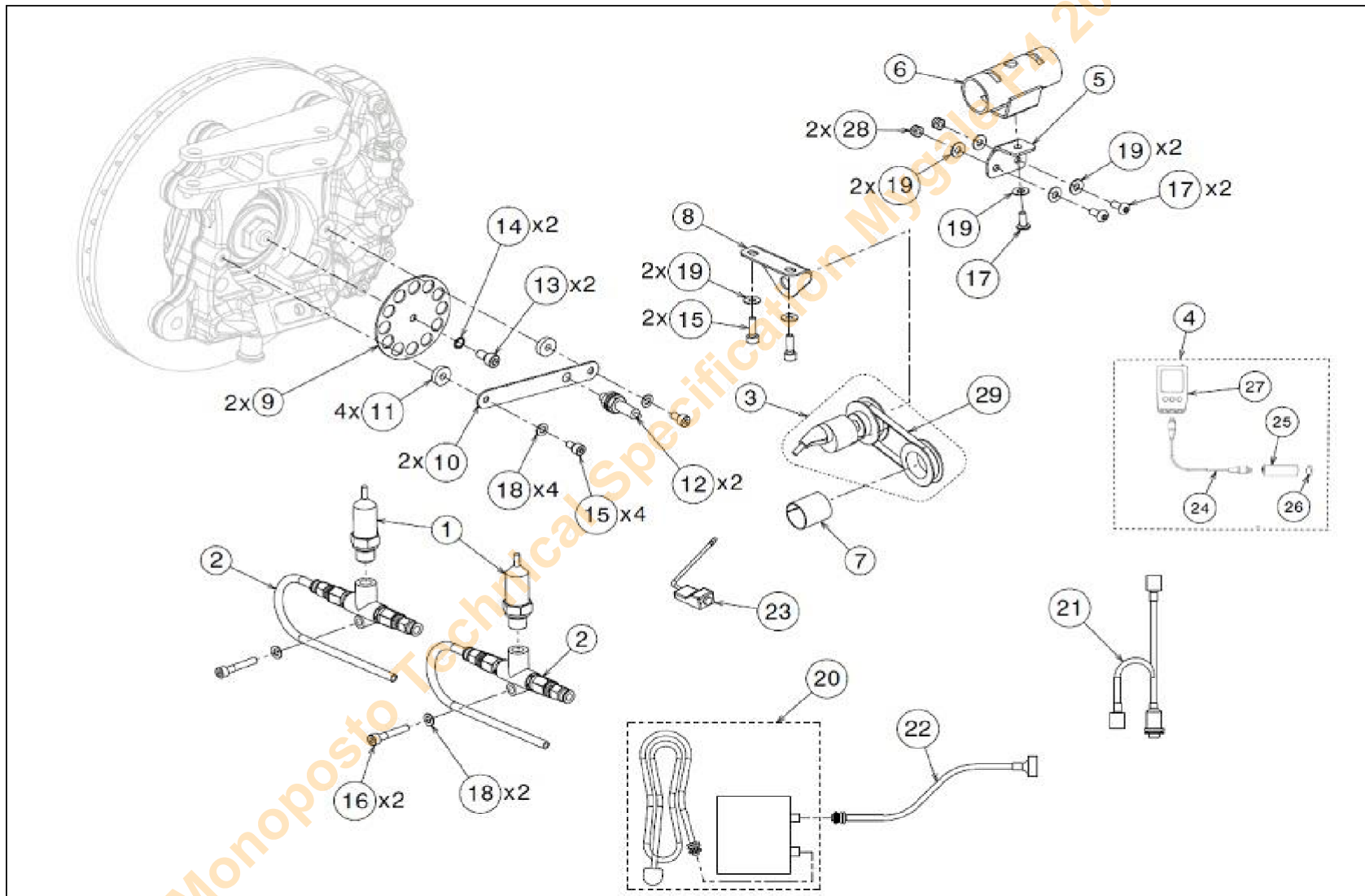
N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.21.045	Brake pressure sensor	2	x *	1
2	F.41.17.011	Brakes pressure sensor, hydraulic circuit	2	x *	1
3	F.41.21.048	Steering wheel angle sensor	1	Data acquisition	1
4	F.41.21.159	Camera kit Rev 2.2	1	Data acquisition	1
5	F.41.21.155	Camera L bracket	1	Data acquisition	1
6	F.41.21.069	Pivot, camera bracket	1	Data acquisition	1
7	F.41.21.073	Steering column slotted tub	1	Data acquisition	1
8	F.41.21.049	Steering wheel sensor bracket	1	Data acquisition	1
9	F.41.21.004	Disc, wheel speed sensor	2	Data acquisition	1
10	F.41.21.003	Bracket, wheel speed sensor	2	Data acquisition	1
11	F.41.21.079	Spacer, wheel speed sensor bracket	4	Data acquisition	1
12	F.41.21.044	Speed wheel sensor	2	Data acquisition	1
13	AVM01.06.0012	Screw CHc M6x12 cl 12.9	2	Data acquisition	3
14	ARO13.06.0001	Washer Schnorr Ø6	2	Data acquisition	3
15	AVM01.05.0016	Screw CHC M5x16 cl 12.9	6	Data acquisition	3
16	AVM01.05.0030	Screw CHC M5x30 cl 12.9	2	x *	3
17	AVM03.05.0012	Screw TBHC M5x12 cl10.9	3	Data acquisition	3
18	ARO06.05.0001	Washer small Ø5 ZnBl	6	Data acquisition	3
19	ARO07.05.0001	Washer medium Ø5x12 ZnBl	7	Data acquisition	3
20	F.31.21.122	GPS module	1	Data acquisition	1
21	F.41.21.163	Harness video logger Rev 2.2	1	Data acquisition	1
22	F.41.21.158	Loom GPS AG050	1	Data acquisition	1
23	F.41.21.100	Lap trigger	1	Data acquisition	1
24	F.41.21.162	Camera to video logger harness Rev 2.2	1	Spare	1 ***
24	F.41.21.120	Camera to video logger harness	1	OLD	1 **
25	F.41.21.161	Bullet camera Rev 2.2	1	Spare	1 ***
25	F.41.21.121	Bullet camera	1	OLD	1 **
26	F.41.21.122	Protective camera glass	1	Spare	1

* Mandatory parts with FIA Throttle Fail Safe requirement

**OLD: Replaced by the new camera (kit: F.41.21.159.A + cable: F.41.21.163.A)

*** Spare parts for the new kit are not compatible with the old kit

21.03 Acquisition Ford



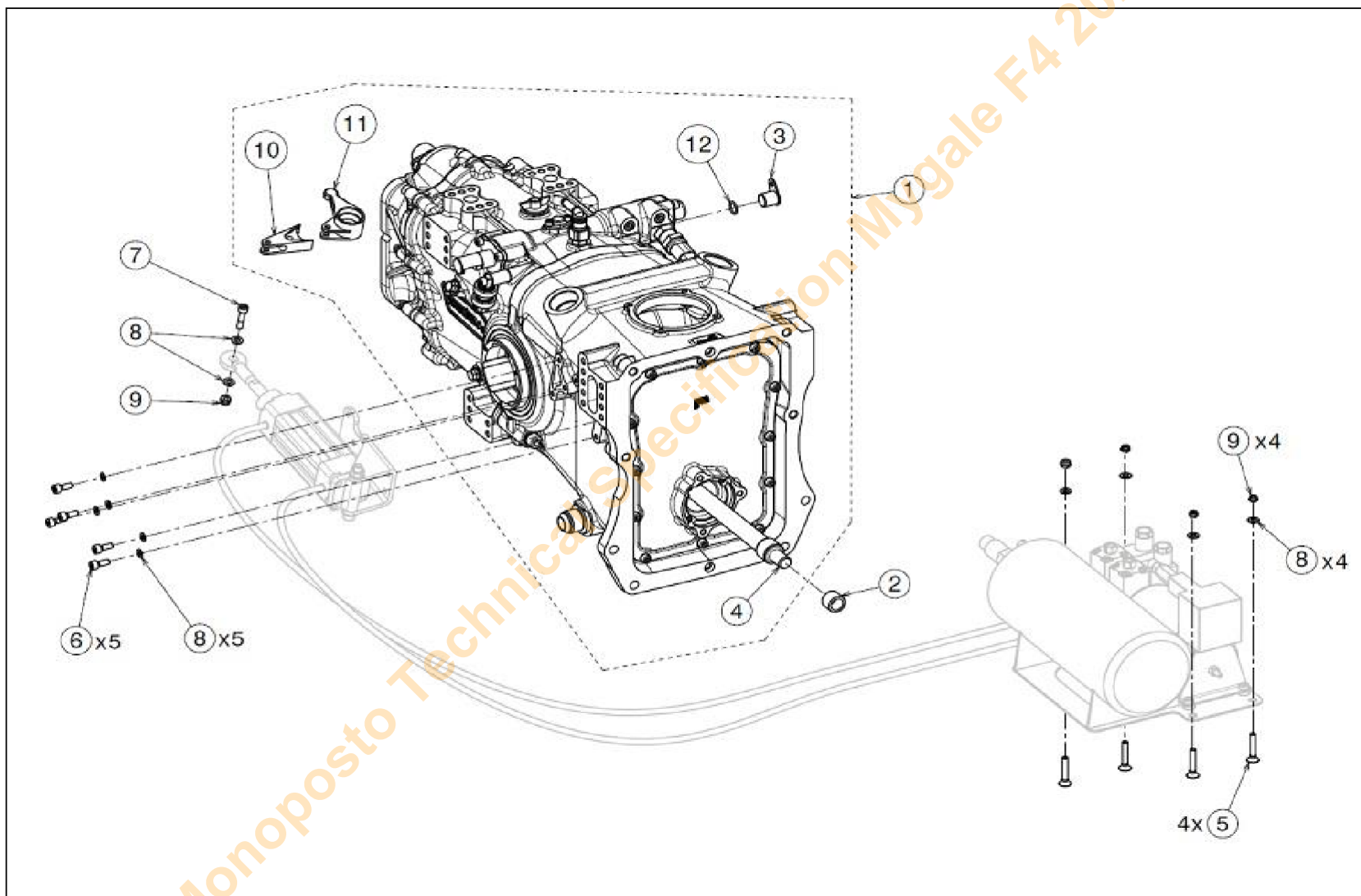
21.03 Acquisition Ford

N°	Reference	Description	Qty	STD / Opt	Type
27	F.41.21.160	Video logger Rev 2.2	1	Spare	1
27	F.41.21.123	Video logger	1	OLD	1
28	AEM01.05.0001	Nylstop nut M5 ZnBI	2	Data acquisition	3
29	F.41.21.171	Belt, steering angle sensor	1	Spare	1

**OLD: Replaced by the new camera (kit: F.41.21.159.A + cable: F.41.21.163.A)

*** Spare parts for the new kit are not compatible with the old kit

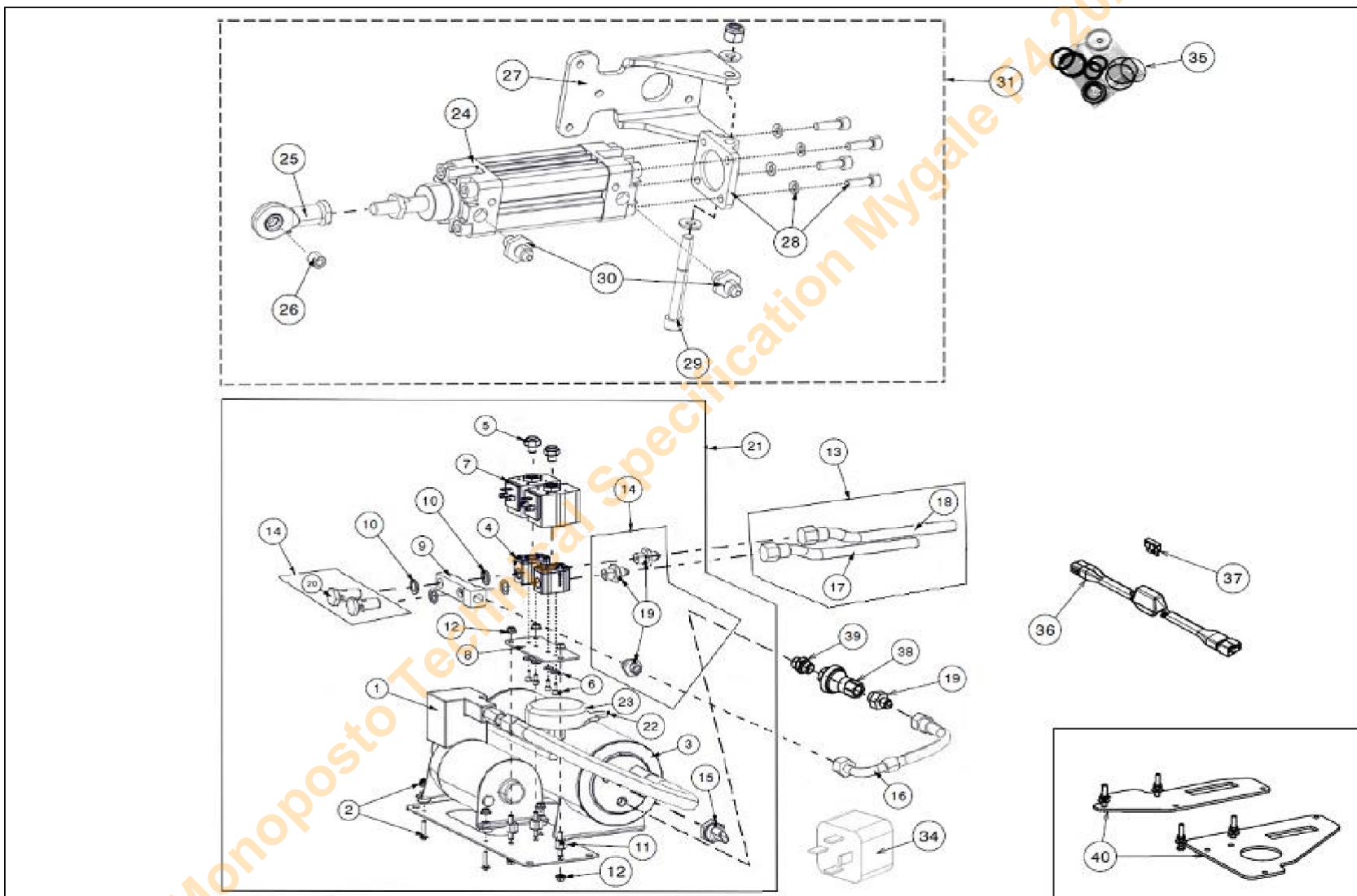
22.01 Gear shift paddle - Gearbox Ford



22.01 Gear shift paddle - Gearbox Ford

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.12.060	Gearbox, Ford, paddle shift	1	Paddle shift	1
2	F.41.12.172	Pilot bearing, clutch, Ford	1	Spare	1
3	F.41.12.072	Closing plate, reverse gear, paddle shift	1	Paddle shift	1
4	F.41.12.059	Clutch shaft - Ford engine	1	Spare	1
5	AVM04.06.0035	Screw TFHC M6x35 cl 10.9	4	Paddle shift	3
6	AVM01.06.0016	Screw CHC M6x16 cl 12.9	5	Paddle shift	3
7	AVM01.06.4028	Screw CHC M6x40 ct 28 cl 12.9	1	Paddle shift	3
8	ARO06.06.0001	Washer small Ø6 ZnBl	11	Paddle shift	3
9	AEM01.06.0001	Nylstop nut M6 ZnBl	5	Paddle shift	3
10	F.41.12.173	Extension shift rocker evo 2020	1	Paddle shift	1
11	F.41.12.069	Manual gearbox lever	1	Paddle shift	1
12	F.41.12.129	O ring Ø12x2	1	Paddle shift	3

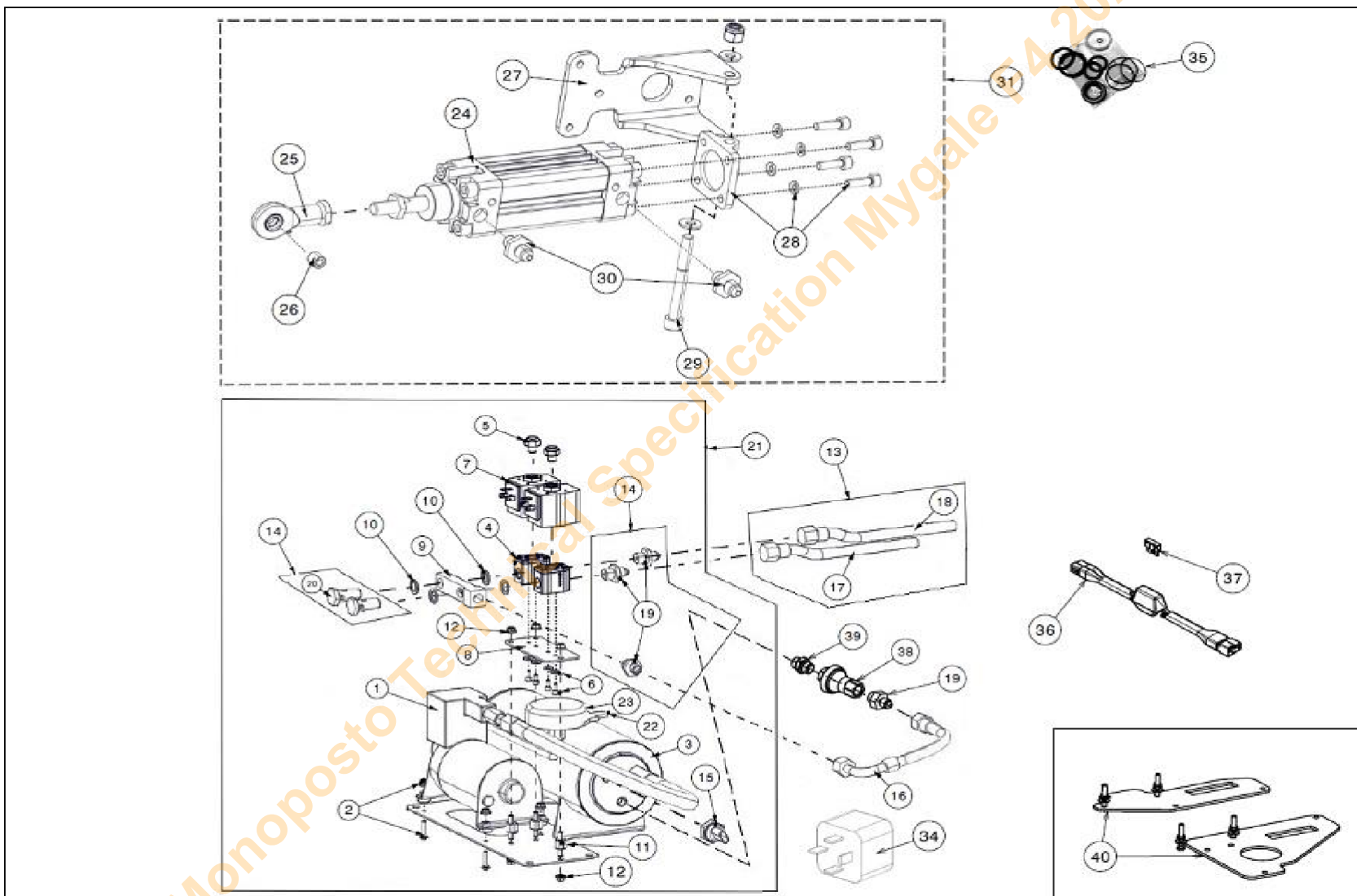
22.02 Gear shift paddle - Actuator Ford



22.02 Gear shift paddle - Actuator Ford

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.12.034	Compressor	1	Spare	1
2	F.41.12.078	Screw TBHC M5x20	4	Spare	3
3	F.41.12.079	Bracket + tank kit	1	Spare	1
4	F.41.12.035	Valve	2	Spare	1
5	F.41.12.080	Filter	2	Spare	1
6	F.41.12.081	Screw CHC M4x8 + 4 Schnorr washers	4	Spare	3
7	F.41.12.082	Solenoid valve	2	Spare	1
8	F.41.12.083	Valves bracket	1	Spare	1
9	F.41.12.084	Air collector	1	Spare	1
10	F.41.12.085	Air collector seal Ø13x18	4	Spare	3
11	F.41.12.086	Silent block	3	Spare	1
12	F.41.12.087	Silent-block nut M5	6	Spare	3
13	F.41.12.123	Pneumatic hose kit	1	Paddle shift	1
14	F.41.12.089	Hose connection kit	1	Spare	1
15	F.41.12.090	Air pressure sensor	1	Spare	1
16	F.41.12.091	Pneumatic hose tank to valve	1	Paddle shift	1
17	F.41.12.121	Pneumatic jack hose upshift lg 900	1	Spare	1
18	F.41.12.122	Pneumatic jack hose downshift lg 1000	1	Spare	1
19	F.41.12.094	Hose connection JM 7/16 - 1/4	4	Spare	1
20	F.41.12.095	Banjo connection 1/4 BSP	2	Spare	1
21	F.41.12.096	Paddle-shift module assembly	1	Paddle shift	1
22	F.41.12.097	Air filter assembly	1	Spare	1
23	F.41.12.098	Air filter	1	Spare	1
24	F.41.12.024	Pneumatic jack	1	Spare	1
25	F.41.12.071	Ball joint	1	Spare	1
26	F.41.12.099	Ball joint adapter	1	Spare	1
27	F.41.12.023	Jack bracket	1	Spare	1
28	F.41.12.073	Rear Jack base	1	Spare	1

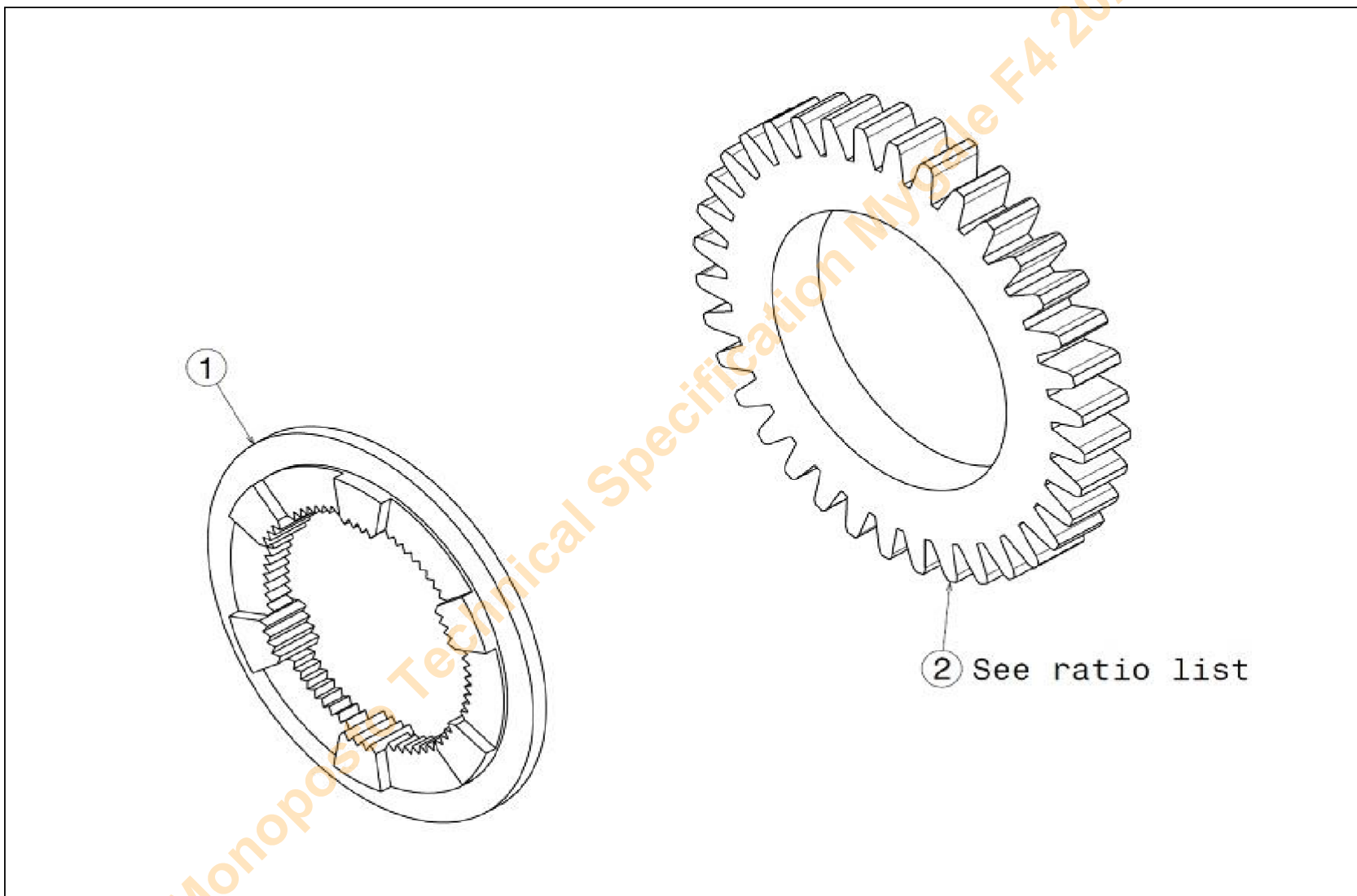
22.02 Gear shift paddle - Actuator Ford



22.02 Gear shift paddle - Actuator Ford

N°	Reference	Description	Qty	STD / Opt	Type
29	F.41.12.100	Jack pin	1	Spare	3
30	F.41.12.101	Hose connection JM 7/16 - 1/8	2	Spare	1
31	F.41.12.102	Pneumatic jack assembly	1	Paddle shift	1
34	ACE04.00.0003	Relay 12V 70A	1	Paddle shift	1
35	F.41.12.158	Set of seal for pneumatic jack	1	Spare	3
36	F.41.21.143	Fuse-holder compressor	1	Paddle shift	1
37	ACE04.00.0015	Fuse 40A	1	Spare	1
38	CM.01.22.145	Pressure reducer G1/4 7 bar	1	Paddle shift	1
39	ARA21.14.0014	Connector G 1/4" M-M	1	Paddle shift	1
40	F.41.12.166	Kit paddle shift module reinforcement	1	Option	1

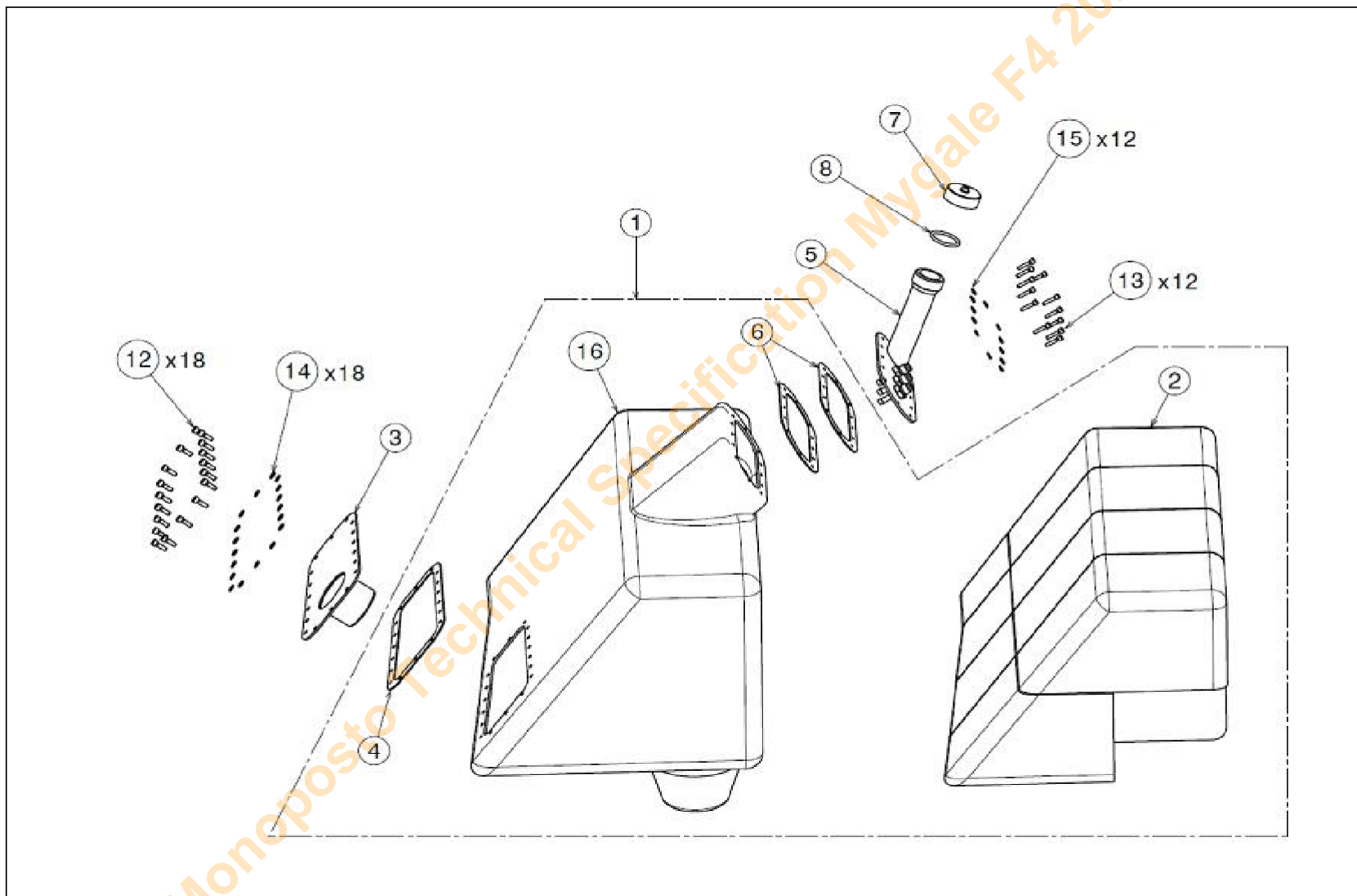
22.03 Gearbox - Ratios



22.03 Gearbox - Ratios

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.12.111	Dog ring, Gearbox	3	Spare	1
2.01	F.41.12.112	Ratio 14/37, Gearbox	1	STD 1	1
2.02	F.41.12.113	Ratio 18/35, Gearbox	1	STD 2	1
2.03	F.41.12.114	Ratio 18/28, Gearbox	1	STD 3	1
2.04	F.41.12.115	Ratio 21/27, Gearbox	1	STD 4	1
2.05	F.41.12.116	Ratio 20/22, Gearbox	1	STD 5	1
2.06	F.41.12.117	Ratio 27/26, Gearbox	1	STD 6	1
2.07	F.41.12.118	Ratio 22/29, Gearbox	1	Option short 4	1
2.08	F.41.12.119	Ratio 24/28, Gearbox	1	Option short 5	1
2.09	F.41.12.120	Ratio 22/23, Gearbox	1	Option short 6	1
2.10	F.41.12.148	Ratio 18/27, Gearbox	1	Option long 3	1
2.11	F.41.12.149	Ratio 20/24, Gearbox	1	Option long 4	1
2.12	F.41.12.150	Ratio 26/26, Gearbox	1	Option long 5	1
2.13	F.41.12.151	Ratio 25/22, Gearbox	1	Option long 6	1

23.01 Fuel cell

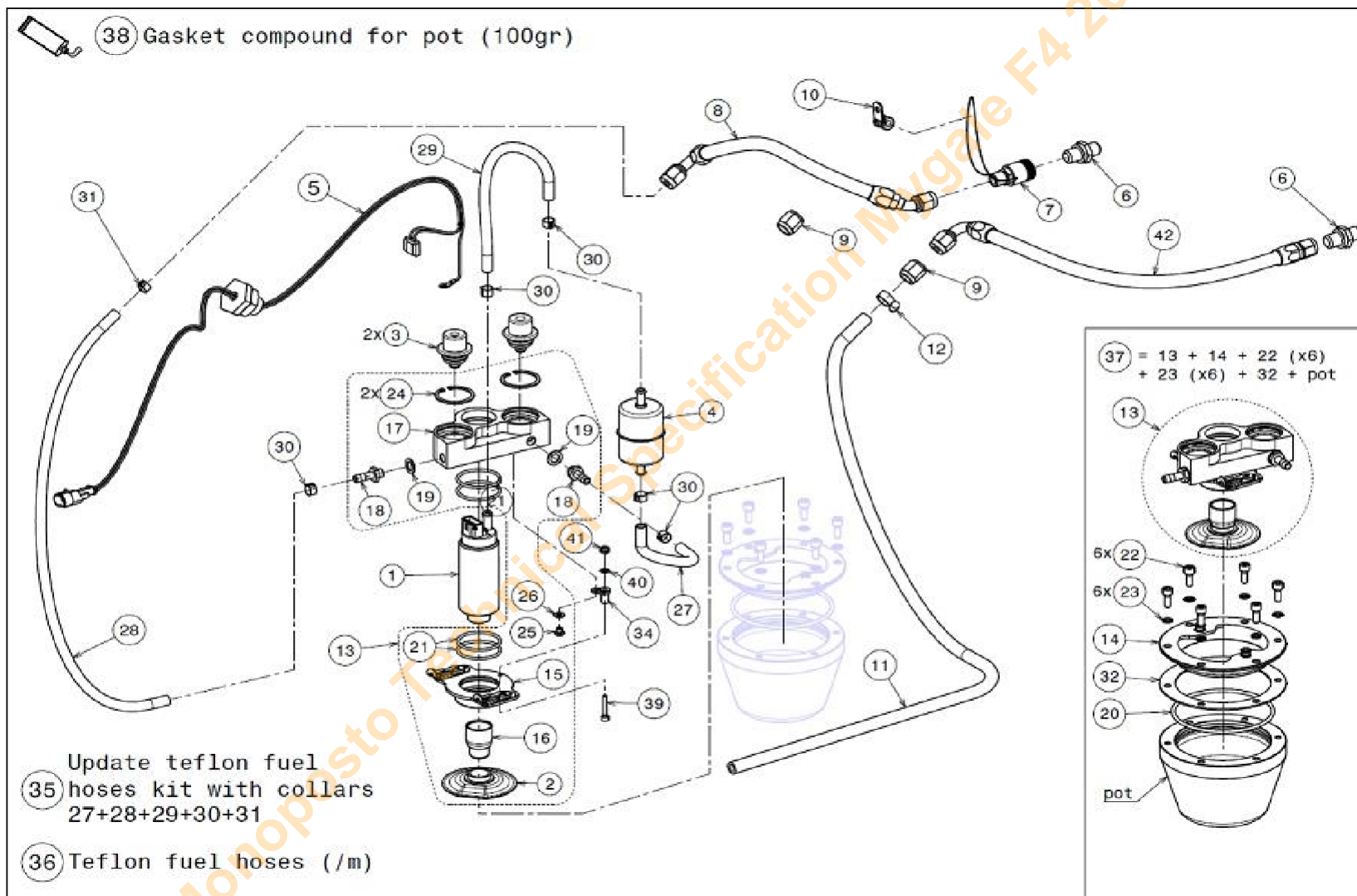


23.01 Fuel cell

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.23.073	Fuel tank EVO	1	x	1
2	F.41.23.074	Fuel tank foam EVO	1	Spare	1
3	F.41.23.011	Fuel tank plate, front	1	x	1
4	F.41.23.017	Fuel tank seal, front	1	Spare	1
5	F.41.23.013	Fuel tank plate, rear	1	x	2
6	F.41.23.016	Fuel tank seal, rear	2	Spare	1
7	F.41.23.045	Fuel cap with breather	1	x	1
8	AJO03.34.0360	O Ring Ø34.1x3.6	1	x	3
12	AVM01.05.0016	Screw CHC M5x16 cl 12.9	18	x	3
13	AVM01.04.0020	Screw CHC M4x20 cl 12.9	12	x	3
14	ARO06.05.0001	Washer small Ø5 ZnBI	18	x	3
15	ARO06.04.0001	Washer small Ø4 ZnBI	12	x	3
16	F.41.23.085	Skin, fuel cell EVO, with pot	1	Spare	1

* #5: Only inside hose fittings can be modified

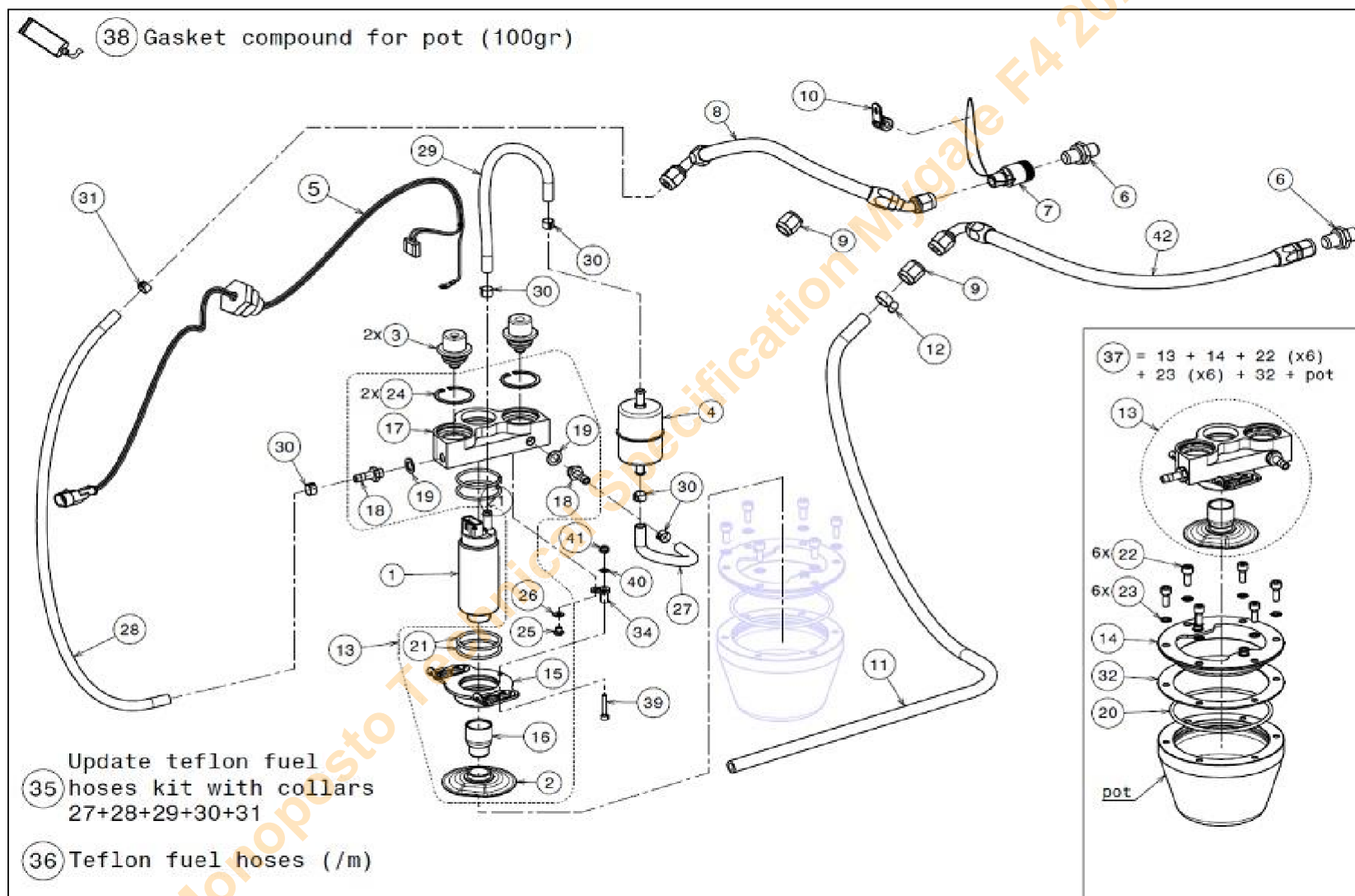
23.02 Fuel pump system Ford



23.02 Fuel pump system Ford

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.23.080	Fuel pump assy	1	x	1
2	F.41.23.060	Filter sock, collector pot	1	Spare	1
3	F.41.23.039	4.5 Bar fuel regulator pressure	2	x	1
4	F.41.23.084	Aluminum fuel filter assy	1	x	3
5	F.41.23.093	Fuel pump loom V2 kit	1	x	1
6	F.41.23.050	Break-away coupling male	1	x	1
7	F.41.23.051	Break-away coupling female	1	x	1
8	F.41.23.044	Fuel hose	1	x	1
9	ARA23.00.0006	Female plug 9/16x18 (Dash6)	2	x	1
10	ACO03.06.0006	P clips M6 Ø6	1	x	3
11	ADU02.13.0800	Fuel hose Ø13 long 800	1	x	3
12	ACO02.08.0016	Collar Tie Clips Ø8-16	1	x	3
13	F.41.23.086	Kit collector pot	1	x	1
14	F.41.23.059	Inner plate, collector pot	1	Spare	1
15	F.41.23.063	Pump plate, collector pot	1	Spare	1
16	F.41.23.061	Filter sock adapter, collector pot	1	Spare	1
17	F.41.23.062	Regulators bracket, collector pot	1	Spare	1
18	F.41.23.081	Hose fitting assy, collector pot	2	Spare	3
19	F.41.23.065	Seal, hose fitting, collector pot	2	Spare	3
20	AJO03.94.0353	O Ring Ø94.84x3.53	1	Spare	3
21	AJO03.39.0262	O Ring Ø39.34x2.62	4	Spare	3
22	AVM09.06.0016	Screw CHC M6x16 ZnBl	6	Spare	3
23	F.41.23.069	Washer seal Ø6	6	Spare	3
24	ACI01.36.0001	Internal Circlips Ø36	2	Spare	3
25	AVM11.05.0006	Screw TBHc M5x6 cl 10.9 ZnBl	1	Spare	3
26	ARO06.05.0001	Washer small Ø5 ZnBl	1	Spare	3
27	F.41.23.077	Teflon fuel hose Ø8 L230 - filter/regulator	1	x	3
28	F.41.23.076	Teflon fuel hose Ø8 regulators - Rear plate L600	1	x	3

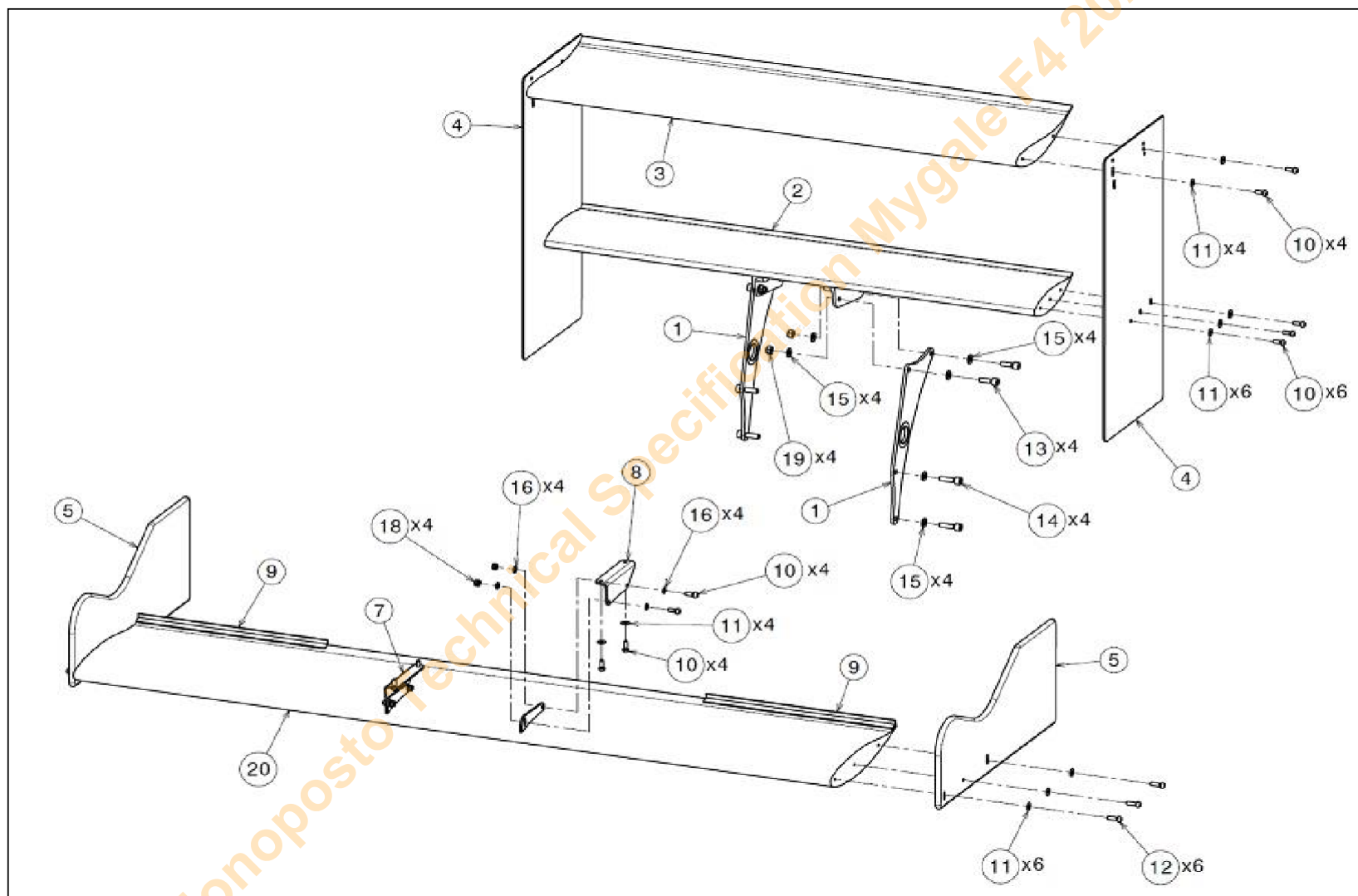
23.02 Fuel pump system Ford



23.02 Fuel pump system Ford

N°	Reference	Description	Qty	STD / Opt	Type
29	F.41.23.082	Teflon fuel hose Ø8 L250 filter/pump	1	x	3
30	ACO03.01.1009	Clamp screw Ø10 w9 GBL10/09	5	x	3
31	ACO03.01.0909	Clamp screw Ø9 w9 GBL09/09	1	x	3
32	F.41.23.070	Collector pot seal	1	Spare	1
34	F.41.23.087	Pump positioner	1	x	3
35	F.41.23.078	Teflon fuel hoses kit with collars	1	Option	3
36	ADU02.06.0001	Fuel teflon hose (by meter)	-	Spare	3
37	F.41.23.057	Collector pot, complete kit (upgrade)	1	Option	1
38	ALI02.00.0003	Gasket compound Hylomar Blue (100gr)	-	Spare	3
39	AVM01.04.0025	Screw CHC M4x25 cl 12.9	1	x	3
40	ARO06.04.0001	Washer small Ø4 ZnBI	1	x	3
41	AEM01.04.0001	Nylstop nut M4 ZnBI	1	x	3
42	F.41.23.056	Fuel hose	1	Option	3

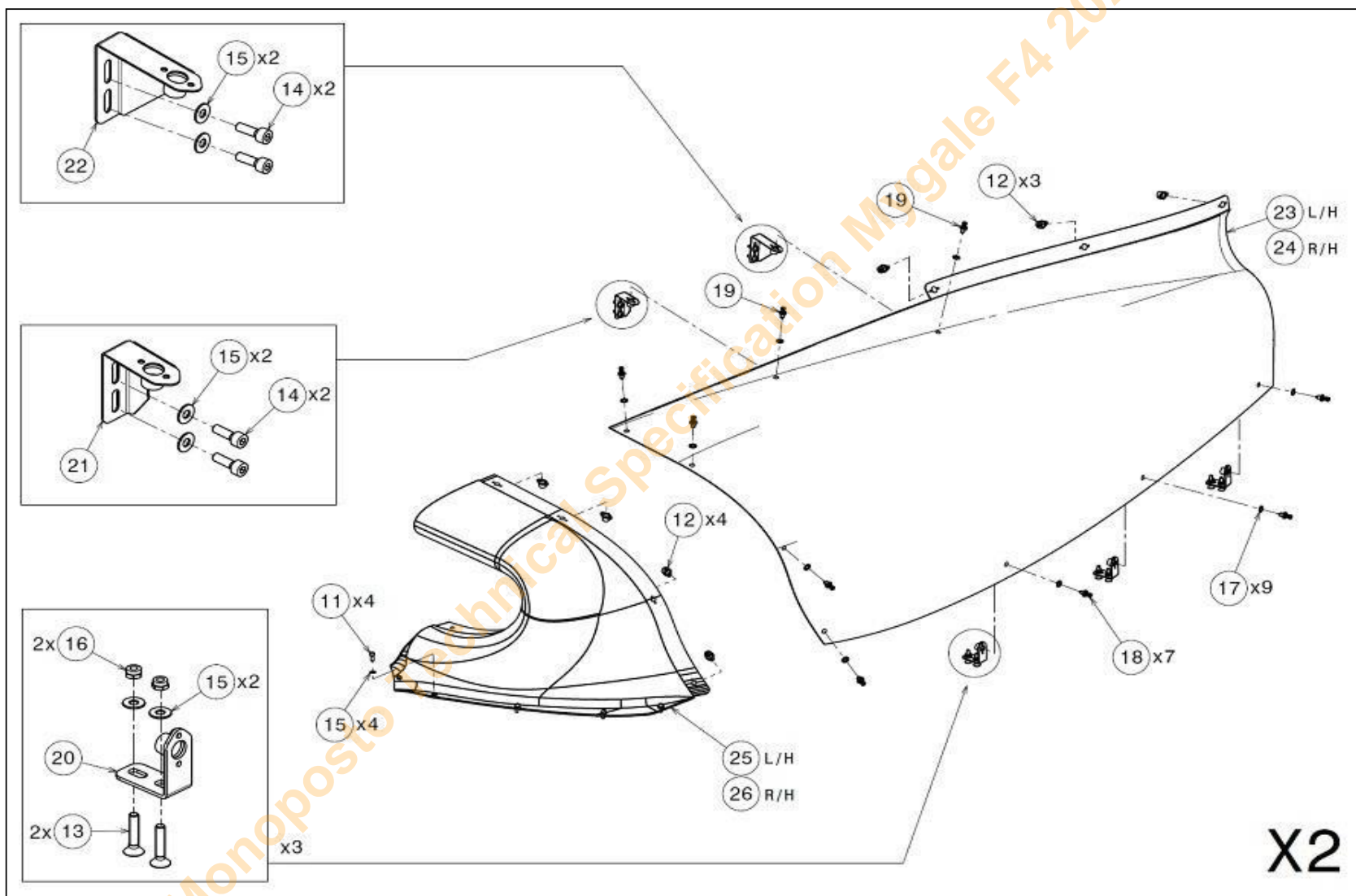
24.01 Wings



24.01 Wings

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.24.001	Rear wing mount	2	x	1
2	F.41.24.002	Lower rear wing	1	x	1
3	F.41.24.003	Upper rear wing	1	x	1
4	F.41.24.004	Rear end plate	2	x	1
5	F.41.24.005	Front end plate	2	x	1
7	F.41.24.007	Front wing mount, right	1	x	1
8	F.41.24.008	Front wing mount, left	1	x	1
9	F.41.24.009	Front wing gurney	2	Spare	1
10	AVM03.06.0016	Screw TBHC M6x16 cl 10.9	18	x	3
11	ARO07.06.0001	Washer medium Ø6 ZnBl	20	x	3
12	AVM03.06.0020	Screw TBHC M6x20 cl 10.9	6	x	3
13	AVM01.08.0025	Screw CHC M8x25 cl 12.9	4	x	3
14	AVM01.08.0030	Screw CHc M8x30 cl 12.9	4	x	2
15	ARO06.08.0001	Washer small Ø8 ZnBl	12	x	3
16	ARO06.06.0001	Washer small Ø6 ZnBl	8	x	3
18	AEM01.06.0001	Nylstop nut M6 ZnBl	4	x	3
19	AEM01.08.0001	Nylstop nut M8 ZnBl	4	x	3
20	F.41.24.023	Carbon front Wing with gurney	1	x	1

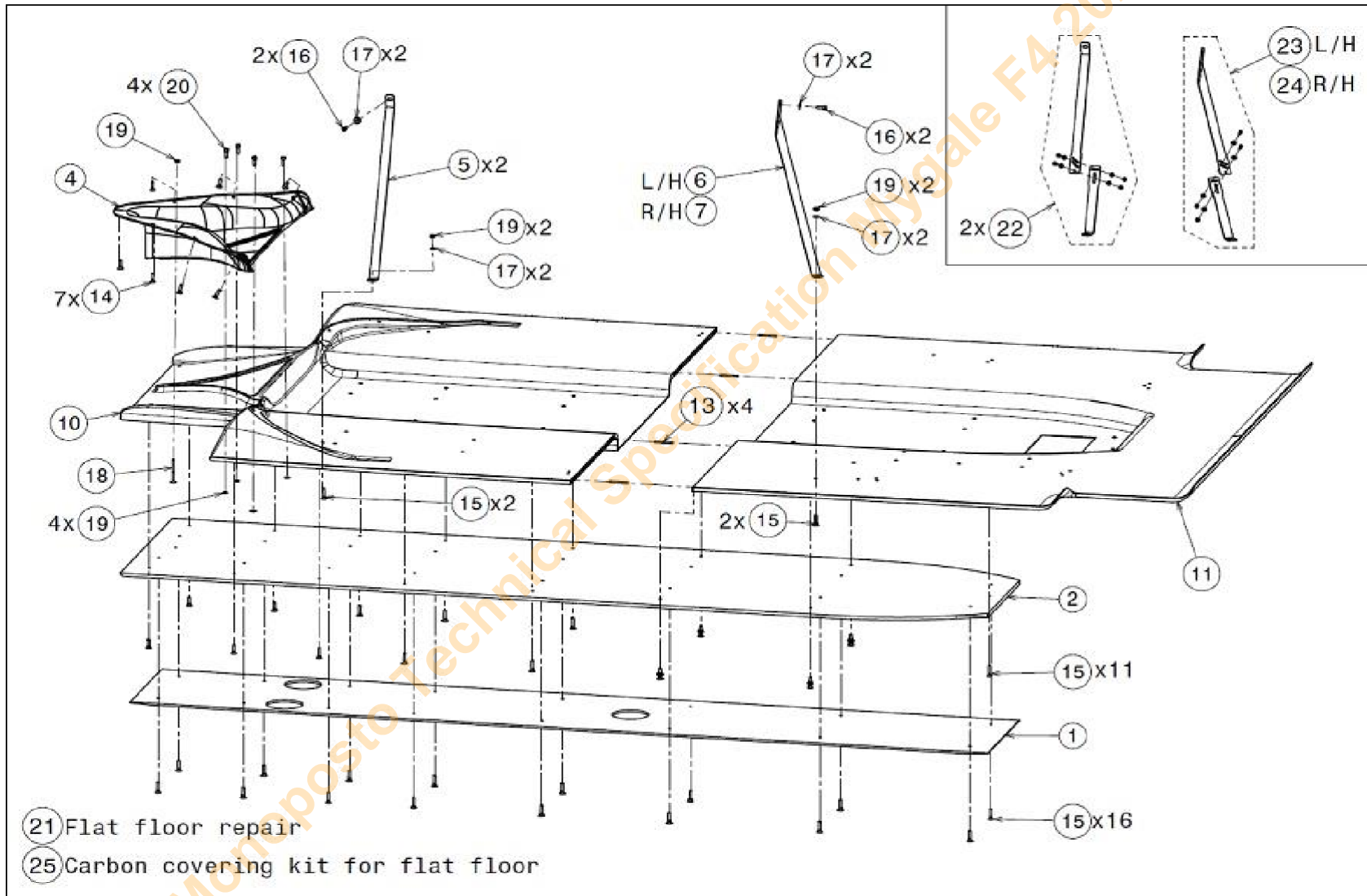
26.01 Sidepods



26.01 Sidepods

N°	Reference	Description	Qty	STD / Opt	Type
11	AVM03.05.0012	Screw TBHC M5x12 cl10.9	8	x	3
12	AFC02.00.0001	Camloc receptacle	14	Spare	3
13	AVM04.05.0020	Screw TFHC M5x20 cl 10.9	12	x	3
14	AVM01.05.0016	Screw CHC M5x16 cl 12.9	8	x	3
15	ARO07.05.0001	Washer medium Ø5x12 ZnBl	28	x	3
16	AEM01.05.0001	Nylstop nut M5 ZnBl	12	x	3
17	AFC07.00.0001	Camloc Washer	18	Spare	3
18	AFC05.00.0007	Camloc 7D	14	Spare	3
19	AFC05.00.0005	Camloc 5D	4	Spare	3
20	F.41.26.067	Bracket, sidepod on floor, with receptacle	6	x	1
21	F.41.26.068	Front bracket, sidepod on monocoque, with receptacle	2	x	1
22	F.41.26.069	Rear bracket, sidepod on monocoque, with receptacle	2	x	1
23	F.41.26.075	Rear side pod, with camlocs, left	1	x	2
24	F.41.26.074	Rear side pod, with camlocs, right	1	x	2
25	F.41.26.078	Front side pod, with camlocs, left	1	x	2
26	F.41.26.077	Front side pod, with camlocs, right	1	x	2

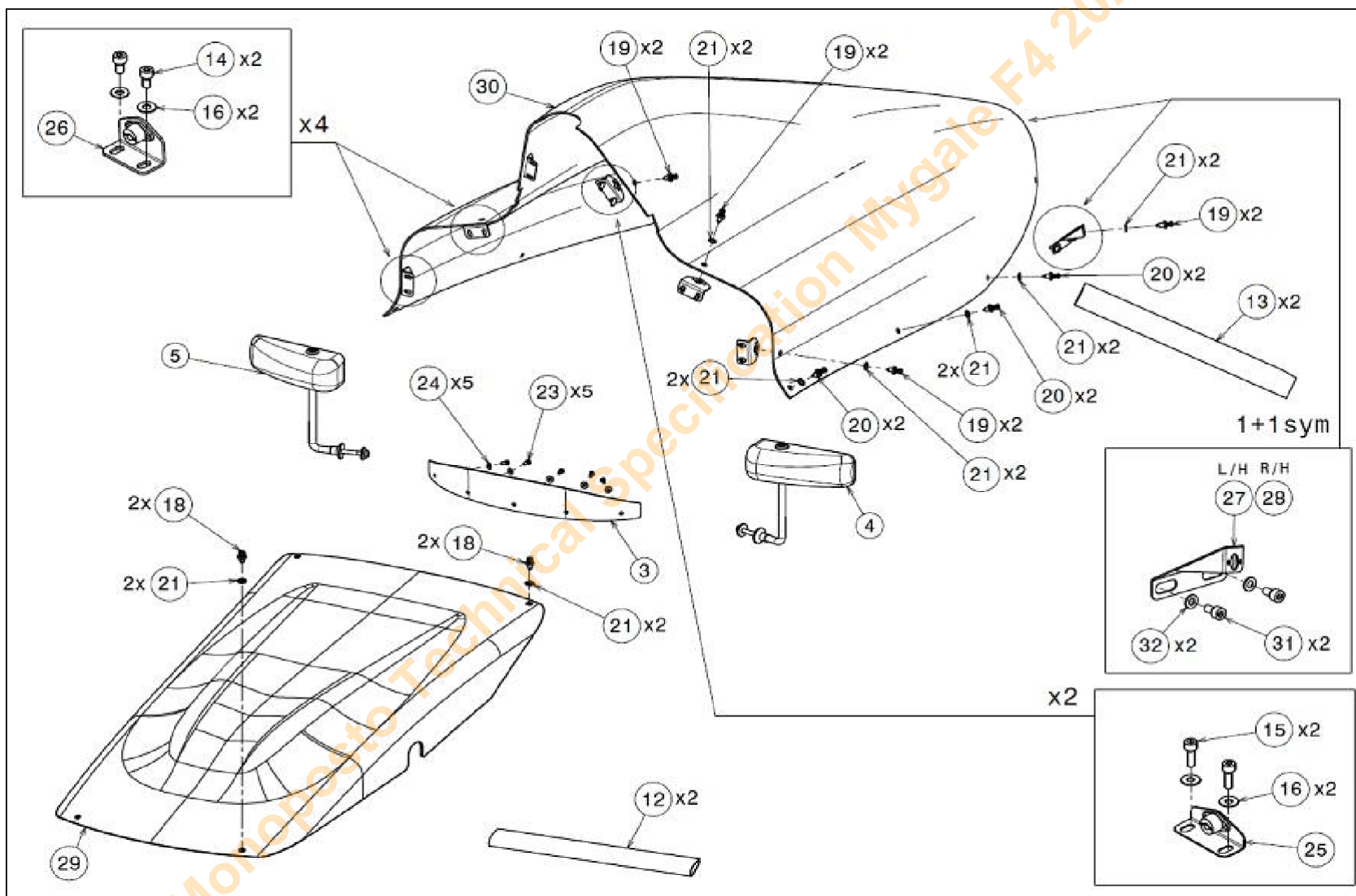
26.02 Floor



26.02 Floor

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.26.004	Skid bloc	1	x	1
2	F.41.26.015	Wood floor evo	1	x	1
4	F.41.26.011	Splitter, with fixings	1	x	2
5	F.41.26.028	Front tie rod, flat floor	2	x	1
6	F.41.26.035	Middle tie rod, flat floor, left	1	x	1
7	F.41.26.034	Middle tie rod, flat floor, right	1	x	1
10	F.41.26.048	Front flat floor, with fixings	1	x	2
11	F.41.26.049	Rear flat floor, with fixings	1	x	2
13	F.41.26.053	Flat floor centering pin	4	x	1
14	AVM04.05.0020	Screw TFHC M5x20 cl 10.9	7	x	3
15	AVM04.05.0025	Screw TFHC M5x25 cl 10.9	31	x	3
16	AVM01.05.0016	Screw CHC M5x16 cl 12.9	4	x	3
17	ARO07.05.0001	Washer medium Ø5x12 ZnBl	8	x	3
18	AVM04.05.0055	Vis TFHC M5x55 cl 10.9	1	x	3
19	AEM01.05.0001	Nylstop nut M5 ZnBl	9	x	3
20	AVM01.05.0020	Screw CHC M5x20 cl 12.9	4	x	3
21	F.41.26.088	Flat floor repair	1	Repair	3
22	F.41.26.089	Front adjustable tie rod, Flat floor	2	Option	1
23	F.41.26.098	Left central adjustable tie rod	1	Option	1
24	F.41.26.099	Right central adjustable tie rod	1	Option	1
25	F.41.26.111	Carbon covering kit for flat floor	1	Option	3

26.03 Covers and accessories

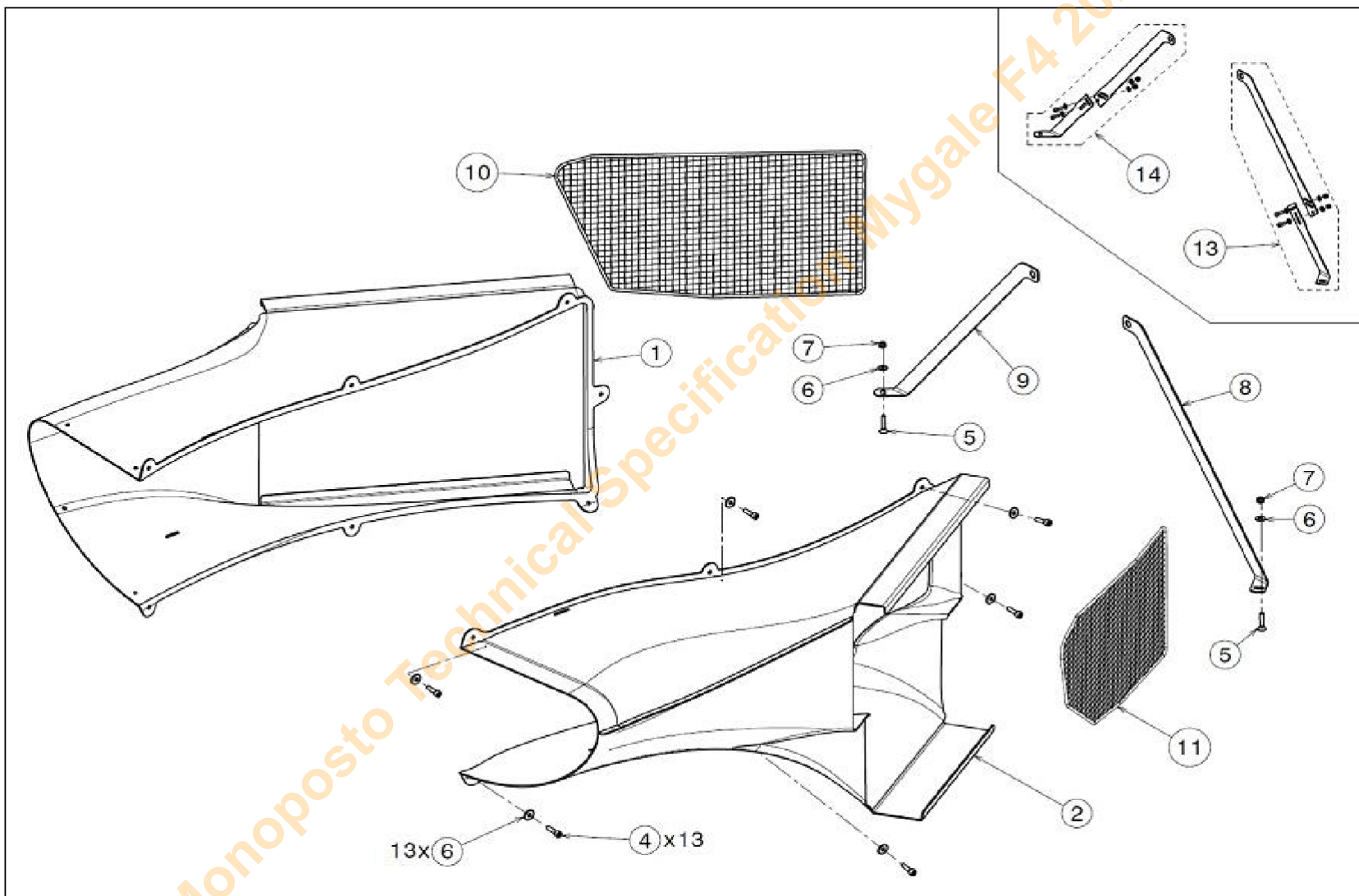


26.03 Covers and accessories

N°	Reference	Description	Qty	STD / Opt	Type
3	F.41.26.040	Windscreen	1	x	1
4	F.41.19.021	Rear view mirror, left	1	x	1
5	F.41.19.022	Rear view mirror, right	1	x	1
12	F.41.26.046	Wheel tether cover, front	2	x	2
13	F.41.26.047	Wheel tether cover, rear	2	x	2
14	AVM01.05.0010	Screw CHc M5x10 cl 12.9	8	x	3
15	AVM01.05.0016	Screw CHC M5x16 cl 12.9	4	x	3
16	ARO07.05.0001	Washer medium Ø5x12 ZnBl	12	x	3
18	AFC05.00.0003	Camloc 3D	4	Spare	3
19	AFC05.00.0005	Camloc 5D	8	Spare	3
20	AFC05.00.0007	Camloc 7D	6	Spare	3
21	AFC07.00.0001	Camloc Washer	16	Spare	3
23	AVM03.04.0008	ScrewTBHC M4x08 cl 10.9	5	x	3
24	ARO07.04.0001	Washer medium Ø4x10 ZnBl	5	x	3
25	F.41.26.070	Bracket, engine cover, with receptacle	2	x	1
26	F.41.26.066	Upper bracket, engine cover on monocoque, with receptacle	4	x	1
27	F.41.26.071	Rear bracket, engine cover on gearbox, left, with receptacle	1	x	1
28	F.41.26.072	Rear bracket, engine cover on gearbox, right, with receptacle	1	x	1
29	F.41.26.117	Front cover 2018, with camlocs	1	x	2
29	F.41.26.073	Front cover, with camlocs	1	OLD	2
30	F.41.26.076	Rear cover, with camlocs	1	x	2
31	AVM01.08.0012	Screw CHC M8x12 cl 12.9	4	x	3
32	ARO06.08.0001	Washer small Ø8 ZnBl	4	x	3

*OLD: Before Safety kit 2018 update

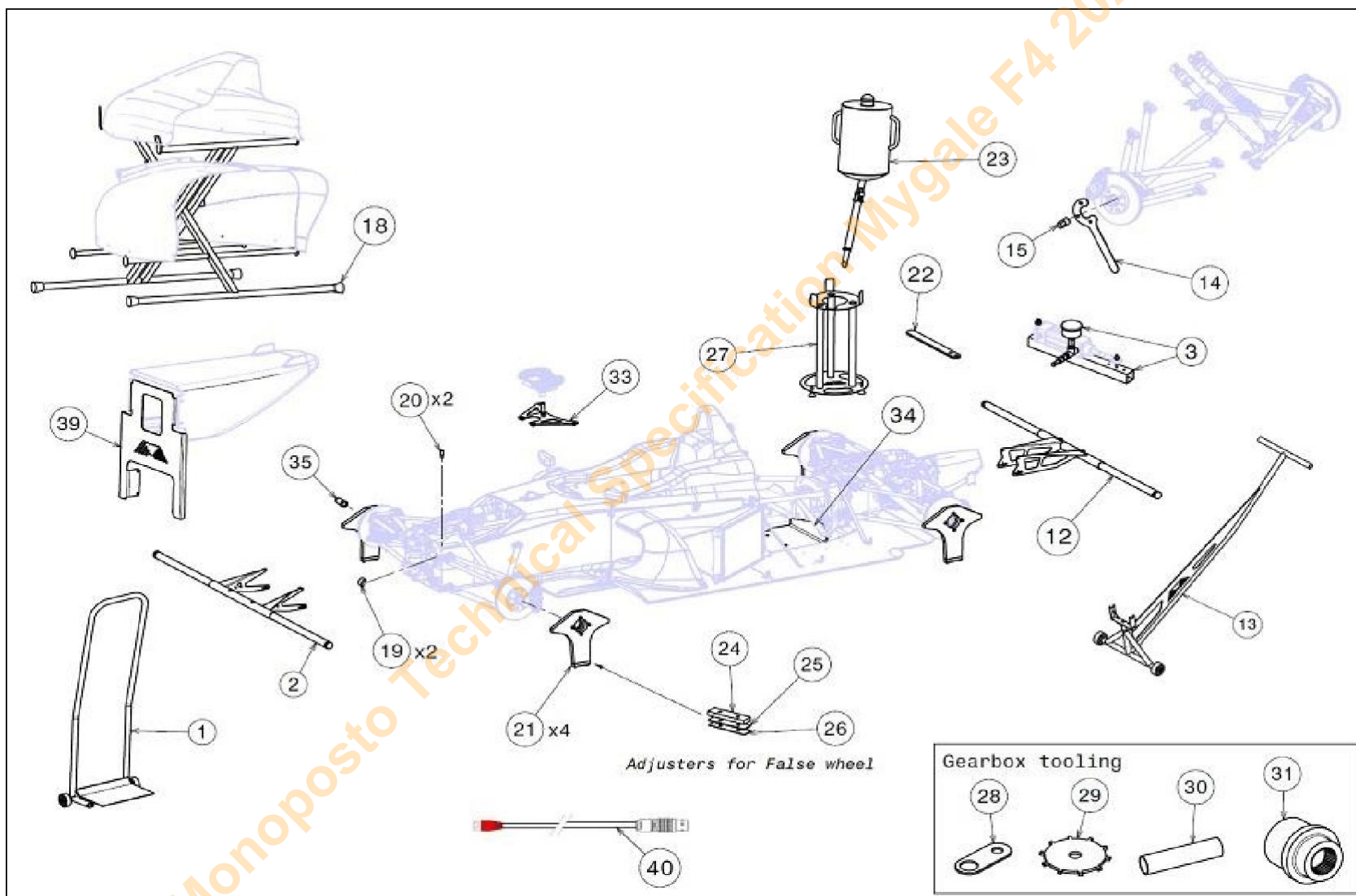
26.04 Bodywork equipment Ford



26.04 Bodywork equipment Ford

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.26.017	Radiator air duct, right	1	x	2
2	F.41.26.063	Radiator air duct, left, Ford	1	x	2
4	AVM01.05.0012	Screw CHC M5x12 cl 12.9	13	x	3
5	AVM04.05.0025	Screw TFHc M5x25 cl 10.9	2	x	3
6	ARO07.05.0001	Washer medium Ø5x12 ZnBl	15	x	3
7	AEM01.05.0001	Nylstop nut M5 ZnBl	2	x	3
8	F.41.26.064	Rear tie rod, flat floor, left, Ford	1	x	1
9	F.41.26.065	Rear tie rod, flat floor, right, Ford	1	x	1
10	F.41.26.081	Grille, radiator protection	1	Option	1
11	F.41.26.082	Grille, radiator protection left, Ford	1	Option	1
13	F.41.26.100	Left rear adjustable tie rod	1	Option	1
14	F.41.26.101	Right rear adjustable tie rod	1	Option	1

35.01 Tooling and accessories



35.01 Tooling and accessories

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.35.008	Front jack	1	Option	3
2	F.41.35.026	Toe bar assembly, front	1	Option	3
3	F.41.35.240	Tooling kit, actuator test	1	Option	3
12	F.41.35.521	Toe bar assembly, rear, 2018	1	Option	3
13	F.41.35.245	Rear jack Evo	1	Option	3
14	F.41.35.060	Wrench for wheel studs	1	Option	3
15	F.41.35.124	Wheel peg tightening socket	1	Option	3
18	F.41.35.054	Trestles bodywork support	1	Option	3
19	F.41.35.064	Steering rack stop	2	Option	3
20	F.41.35.001	Ride height adjustment pinule	2	Option	3
21	F.41.35.066	False wheel complete	4	Option	3
22	F.41.35.239	Tool, actuator ball joint adjustment	1	Option	3
23	F.41.35.105	Filling cask	1	Option	3
24	F.41.35.033	Spacer 10mm, false wheel	4	Option setup	3
25	F.41.35.035	Spacer 2mm, false wheel	4	Option setup	3
26	F.41.35.032	Spacer 1mm, false wheel	4	Option setup	3
27	F.41.35.110	Filling cask support	1	Option	3
28	F.41.35.120	Locking plate, Gearbox tooling	1	Option	3
29	F.41.35.121	Play adjuster, Gearbox tooling	1	Option	3
30	F.41.35.122	Spacer, Gearbox tooling	1	Option	3
31	F.41.35.123	Primary bolt tool, Gearbox tooling	1	Option	3
33	F.41.35.127	Steering wheel support assembly	1	Option	3
34	F.41.35.155	Transportation kit without engine, Ford	1	Option	3
35	F.41.35.217	Socket, front wheel stud lock nut	1	Option	3
39	F.41.35.231	Crashbox support	1	Option	3
40	F.41.35.226	Data download cable	1	Option	3

False wheels set-up indication for Hankook : Front (mm)		/	Rear (mm)
Tyre radius (loaded)	273*		280*
Necessary shims height	21		28
Necessary shims ref/wheel	2x F.41.35.033 + F.41.35.032		2x F.41.35.033 + 4x F.41.35.035

* depending on pressure, camber, weight and distribution

35.02 Car cover

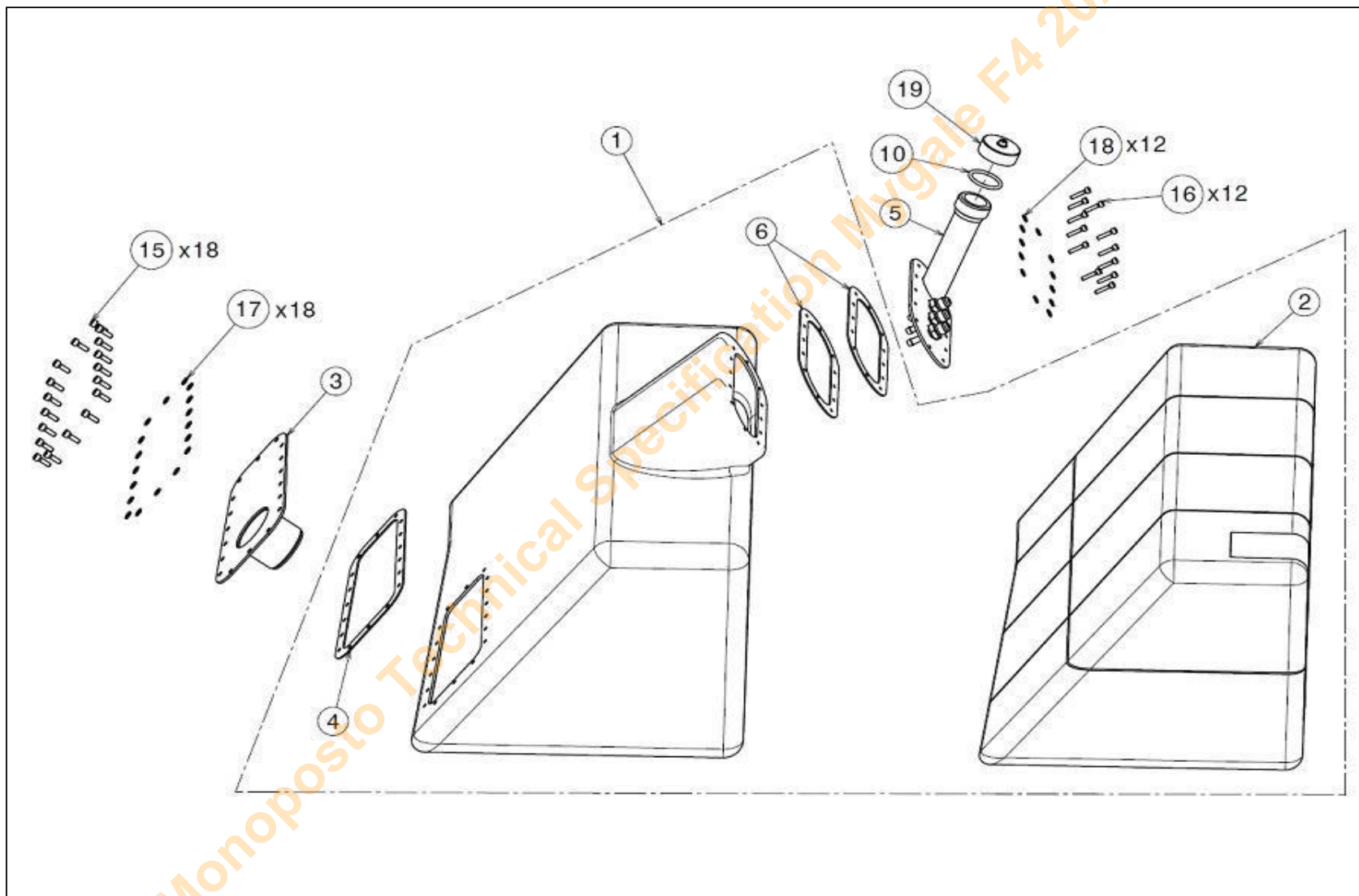


35.02 Car cover

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.35.196	Car cover	1	Option	3

Monoposto Technical Specification Mygale F4 2023

99.01 Fuel cell (OLD)

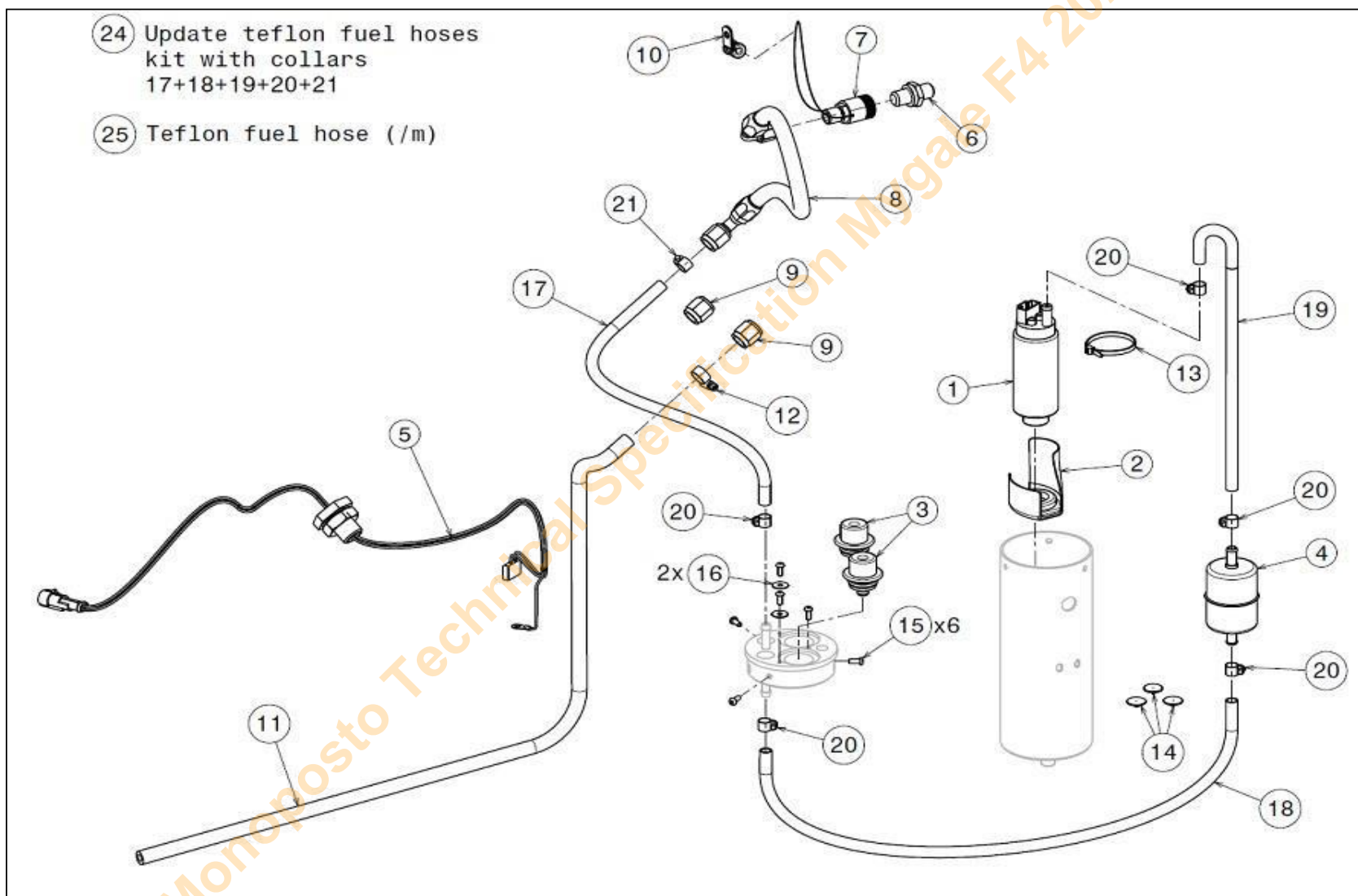


99.01 Fuel cell (OLD)

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.23.001	Fuel tank	1	Spare	1
2	F.41.23.003	Fuel tank foam	1	Spare	1
3	F.41.23.011	Fuel tank plate, front	1	Spare	1
4	F.41.23.017	Fuel tank seal, front	1	Spare	1
5	F.41.23.013	Fuel tank plate, rear	1	Spare	2
6	F.41.23.016	Fuel tank seal, rear	2	Spare	1
10	AJO03.34.0360	O Ring Ø34.1x3.6	1	Spare	3
15	AVM01.05.0016	Screw CHC M5x16 cl 12.9	18	Spare	3
16	AVM01.04.0020	Screw CHC M4x20 cl 12.9	12	Spare	3
17	ARO06.05.0001	Washer small Ø5 ZnBI	18	Spare	3
18	ARO06.04.0001	Washer small Ø4 ZnBI	12	Spare	3
19	F.41.23.045	Fuel cap with breather	1	Spare	1

* #5: Only inside hose fittings can be modified

99.02 Fuel pump system Ford (OLD)



99.02 Fuel pump system Ford (OLD)

N°	Reference	Description	Qty	STD / Opt	Type
1	F.41.23.080	Fuel pump assy	1	Spare	1
2	F.41.23.038	Filter sock 340 series	1	Spare	1
3	F.41.23.039	4.5 Bar fuel regulator pressure	2	Spare	1
4	F.41.23.084	Aluminum fuel filter assy	1	Spare	3
5	F.41.23.093	Fuel pump loom V2 kit	1	Spare	1
6	F.41.23.050	Break-away coupling male	1	Spare	1
7	F.41.23.051	Break-away coupling female	1	Spare	1
8	F.41.23.044	Fuel hose	1	Spare	1
9	ARA23.00.0006	Female plug 9/16x18 (Dash6)	2	Spare	1
10	ACO03.06.0006	P clips M6 Ø6	1	Spare	3
11	ADU02.13.0800	Fuel hose Ø13 long 800	1	Spare	3
12	ACO02.08.0016	Collar Tie Clips Ø8-16	1	Spare	3
13	ACO01.00.0003	Rilsan 203x3,6	1	Spare	3
14	F.41.23.033	Fuel tank buffer check valve	3	Spare	1
15	AVM11.04.0010	Screw TBHc M4x10 cl 10.9 ZnBl	6	Spare	3
16	ARO07.04.0001	Washer medium Ø4x10 ZnBl	2	Spare	3
17	F.41.23.076	Teflon fuel hose Ø8 regulators - Rear plate L600	1	Spare	3
18	F.41.23.077	Teflon fuel hose Ø8 L230 - filter/regulator	1	Spare	3
19	F.41.23.082	Teflon fuel hose Ø8 L250 filter/pump	1	Spare	3
20	ACO03.01.1009	Clamp screw Ø10 w9 GBL10/09	5	Spare	3
21	ACO03.01.0909	Clamp screw Ø9 w9 GBL09/09	1	Spare	3
24	F.41.23.078	Teflon fuel hoses kit with collars	1	Option	3
25	ADU02.06.0001	Fuel teflon hose (by meter)	-	Spare	3