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www.thunderbikes.ro

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HEL

manufacture

brake hose | tuyau de frein | tubo freno | latiguillos para frenos | freno latiguillo | rem slang

HEL Performance Motorcycle Brake Line Manufacturing Manual

Confidentiality Of The HEL Performance Hose Manufacturing Manual

This document is for circulation within HEL Performance and it's authorised manufacturing facilities located around the world. This manual, or extracts from it, must not be passed or copied to any other person or company without the express written permission of HEL Performance. The processes, instructions, diagrams and instructions shown within this manual must be adhered to by all manufacturers of HEL Performance Brake Line Kits throughout the world. Only HEL Performance fittings and HEL Performance Hose must be used for the manufacture of HEL Performance Brake Line Kits - Failure to adhere to this will result in the manufacturing facility being taken away from that company or individual and no warranty will be expressed or implied as well as the annulment of any relevant insurance.

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Section B : Cutting Hose To Required Length - Database

1 Open HEL Database Program

2 Click On HEL Logo To Start Program

3 Click On Brake Line Specifications

4 Search Using The Binocular Button For The Specification You Require

5 All Required Information Required For The Manufacture Of The Brake Line Kit Is Listed In The Form

6 Top Left - Upper Front Hose Or Full Length Master Cylinder To Right Hand Caliper As Sat On Bike

7 Top Right - Lower Front Hoses Or Full Length Master Cylinder To Right Hand Caliper As Sat On Bike

Note : If The Specification States '2' Hoses Then Hose Length Should Be Divided By 2

8 Lower Left - Anti Dive Hose Or Additional Rear Hose When Two Are Required

9 Lower Right - Rear Hose

10 Specification Also Includes Bleed Nipple Information And Banjo Bolt Threads

HEL Performance Motorcycle Brake Line Manufacturing Manual

Section B : Cutting Hose To Required Length

1 Choose Required Colour Of Hose

2 Lay Hose Out Along The Edge Of A Ruler As Shown In Figure 1

Figure 1

Picture Showing Hose Being Laid Along Ruler To Determine Cut Mark

3 Mark Hose At Required Measurement

4 Cut Hose At The Required Measurement With Supplied Cutters (Figure 2)

Figure 2

Picture Showing Hose Being Cut To Length

5 Repeat From Stage 2 Until All 3 Hoses Have Been Marked And Cut To The Required Length

Section C : Trimming Hose To Allow Correct Placement Of Ferrule

All Of The Brake Hose That Hel Performance Supply For Use In The Manufacture Of Their Brake Line Kits Is Manufactured With 32 External Braids Of Stainless Steel Protecting The Inner Core Of Teflon Ptfe Tubing. All Of These Hoses Come Complete With An Extruded Pvc Cover To Protect The Bodywork And The Paintwork Of The Vehicle The Hoses Are To Be Fitted On. Our Design Of Fitting And Ferrule Requires A 10mm Piece Of The Protective Pvc To Be Removed From Each End To Allow The Secure And Correct Location Of The Ferrule On The Hose. To Aid The Removal Of This Pvc Hel Performance Supply A Small Cutter Which Allows A 10mm Piece To Be Measured And Removed Easily.

1 Locate The Hose In The Jaws Of The Removal Tool As Shown In Figure 3

Figure 3

Hose Being Placed In Cutters - Notice How The End Butts Against The Inside Of The Outer Shoulder Offering A 10mm Measurement

2 Rotate The Cutting Device Around The Hose By 520 Degrees (Two Complete Turns)

3 Remove Hose From Cutting Device

4 Using A Pair Of Grips Hold The 10mm Cut Piece And Rotate The Pvc Off The End Of The Hose As Shown In Figure 4

Figure 4

10mm PVC piece being removed from the end of the hose

5 Repeat From Stage 1 Until All 3 Hoses Have Had 10mm Of Pvc Removed From Each End

HEL Performance Motorcycle Brake Line Manufacturing Manual

Section D : Inserting The Fitting Into The Hose And The Ferrule

1 Push Ferrule Onto The Hose End Which Has Already Been Prepared By Having 10mm Of The Outer Pvc Cover Removed

2 Ferrule Should Be Pushed Onto The Hose So That The Pvc Sits Under The Very End Of The Ferrule In The Small Cutout And The Inner Teflon Tube Is Visible When You Look Into The End Of The Ferrule. The Ferrule Should Be Pushed Onto The Hose As Far As Possible So That The Inner Ledge Sits On Top Of The Hose As Shown In Figure 5

3 Push The Ferrule Onto The Hose As Shown In Figure 6

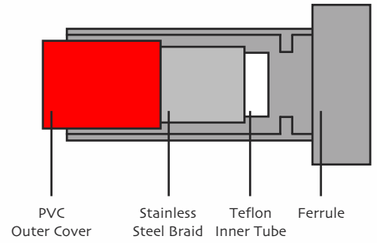


Figure 5

Cut out image of the ferrule sitting on top of the hose. Notice how the pvc is UNDER the ferrule so that when swaged it holds the pvc cover.

4 Make Sure Ferrule Is Sat All The Way Down On To The Hose

Figure 6

Pushing the ferrule onto the hose

Section D : Inserting The Fitting Into The Hose And The Ferrule - Continued

5 Locate The Tip Of The Fitting Just Inside The Teflon Tube As Shown In Figure 7

Figure 7

Tip Of Fitting Being Positioned Just Inside The Inner Teflon Tube

6 Push Fitting Right Into The Ferrule And The Hose As Far As Possible

7 When The Fitting Cannot Be Pushed In Anymore It Has Seated

8 When The Fitting Has Been Pushed Right Into The Hose The Ferrule Should Be Pushed Backwards Towards Fitting And Will Move 1mm

9 A Click Will Be Heard When The Ferrule Is Seated Correctly Onto The Fitting As Shown In Figure 8

Figure 8

Pushing the ferrule back towards the fitting will result in a click being heard indicating the fitting and ferrule are located correctly

10 Make Sure That One Yellow Hel Tag Is Placed On Each Hose

11 Process Should Be Repeated For Each End Of Every Hose Being Manufactured

HEL Performance Motorcycle Brake Line Manufacturing Manual

Section E : Alignment Of The Fittings

1 Hold The Hose So That One Fitting Is In One Hand Nearest Your Body And The Other End Is Held In The Other Hand Furthest Away From Your Body As Shown In Figure 9

Figure 9

Hold the hose assembly as shown

2 Both Fittings Should Be Parallel To Each Other (Both Holes In The Same Plane). If One Fitting Is A H695 It Should Be Held Nearest To You With It Bending To The Left. If The Fitting Is A Normal Bend (H693, H694, H697 Or H699) Then The Bends Should Point Towards The Floor As Shown In Figure 10

Figure 10

Both bends bend towards the floor before alignment begins

3 To Align The Fitting **Rotate The End Nearest You Clockwise**

For Example :

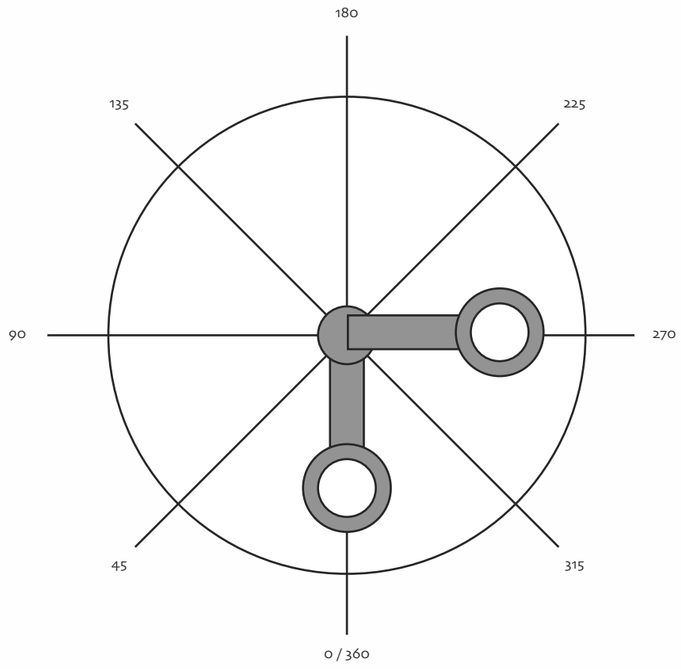
90 Deg Ree : The Fitting Nearest You Moves From 6 O'clock To 9 O'clock

180 Degree : The Fitting Nearest You Moves From 6 O'clock To 12 O'clock

270degree : The Fitting Nearest You Moves From 6 O'clock To 3 O'clock

Section E : Alignment Of The Fittings - Continued

4 Full Diagram Showing All Possible Alignments Shown Below In Figure 11



5 Repeat The Alignment For Each Hose Remembering To Move The Fitting Closest To You **Clockwise**

HEL Performance Motorcycle Brake Line Manufacturing Manual

Section F : Swaging The Ferrule To The Correct Dimension - Hand Swage Machine

1 Set Swage Dimension To **8** By Making Sure **o** Is On The **8** Line As Shown Below In Figure 12

Figure 12

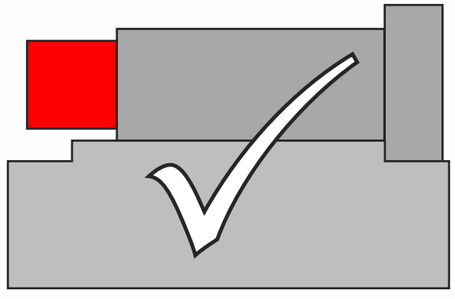
Setting The Swage Dimension To 8mm

2 Place Hose Into Swage Machine As Shown In Figure 13

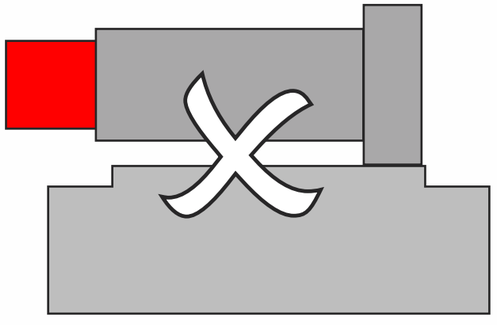
Figure 13

Hose Being Placed Inside The Head Of the Swage Machine

3 Make Sure The Ferrule Is Located Into The Cut Out In The Swage Die Shown Below



Ferrule **CORRECTLY** Located Into Swage Die



Ferrule **INCORRECTLY** Located Into Swage Die

Section F : Swaging The Ferrule To The Correct Dimension - Hand Swage Machine - Continued

4 Make Sure The Pump Is Closed By Turning The Know Towards The Back Of The Machine As Shown In Figure 15

Figure 15

Close Pump By Turning Knob Towards Rear Of The Machine

5 Then Pump Handle And The Fitting Will Be Swaged As Shown In Figure 16

Figure 16

Swage Head Fully Closed Having Swaged Ferrule To 8mm OD

6 Swaging To The Correct Dimension (**8mm**) Is Indicated B Y The Needle At The Back Of The Micrometer Being Flush With The Back Of The Micrometer Unit As Shown Below In Figure 17

Figure 17

Needle At Back Of Micrometer Is Now Flush With The Rear Of The Micrometer Unit Showing 8mm Swage Has Been Achieved

HEL Performance Motorcycle Brake Line Manufacturing Manual

Section F : Swaging The Ferrule To The Correct Dimension - Hand Swage Machine - Continued

7 Release Knob At Side Of Unit To Release Pressure (Figure 18)

Figure 18

Release Pressure By Turning Knob Towards Front Of The Machine

8 Dies Will Then Move Apart Allowing The Hose Assembly To Be Removed (Figure 19)

Figure 19

Swage Head Retracting Back To Starting Position

9 Repeat For Each End Of Every Hose

10 Check Swage Dimension Of Each End Is Correct With Digital Vernier Caliper - Reading Should Be Between **7.95 mm** And **8.00 mm** As Shown In Figure 20

Figure 20

Digital Vernier Caliper Being Used To Check Swage Dimension

Section G : Swaging The Ferrule To The Correct Dimension - Electric Swage Machine

1 Swage Dimension Has Been Factory Set For Your Machine As Shown In Figure 21

Figure 21

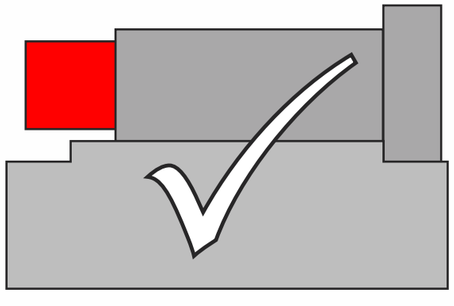
Micrometer Setting Factory Set - Your Machine **May Not** Be Thirty

2 Place Hose Into Swage Machine As Shown In Figure 22

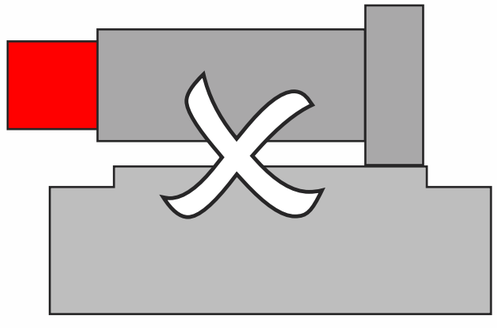
Figure 22

Hose Being Placed Into Swage Head Of Electric Machine

3 Make Sure Ferrule Has Located Into Cutout In Swage Die As Shown Below In Figure 23



Ferrule **CORRECTLY** Located Into Swage Die



Ferrule **INCORRECTLY** Located Into Swage Die

HEL Performance Motorcycle Brake Line Manufacturing Manual

Section G : Swaging The Ferrule To The Correct Dimension - Electric Swage Machine - Continued

4 Press Green Button To Begin Swage And Keep Finger On Button As Shown In Figure 24

Figure 24

Press Green Button To Begin Swaging And Keep Depressed Until The Machine Stops Indicating Swaging Has Completed

5 When Machine Has Stopped Press Red Button And Keep Depressed Until Swage Dies Have Fully Opened As Shown Below In Figure 25

Figure 25

Press Red Button When Machine Has Stopped Swaging To Release All Of The Dies Back To The Starting Position

6 Repeat For Each End Of Every Hose

7 Check Swage Dimension Of Each End Is Correct With Digital Vernier Caliper - Reading Should Be Between **7.95 mm** And **8.00 mm** As Shown In Figure 26

Figure 26

Digital Vernier Caliper Being Used To Check Swage Dimension

Section H : Measuring The Od Of The Swaged Ferrule And Visually Checking Each End

1 When All Ends Have Been Swaged Please Make A Visual Check To See That They Have All Been Swaged Correctly As Shown In Figure 27 And Mark Each Ferrule With Black Dot

Figure 27

Visually Check Each End Has Been Swaged Correctly And Place A Black Dot On Each Ferrule In Permanent Ink To Show Check.

2 Lines Should Be Visible All Around The Ferrule And On The Ferrule Should Indicating That The Whole Ferrule Has Been Swaged Correctly

3 Make Sure All Of The Ferrules Have Been Swaged To Between 7.95 Mm And 8.00 Mm With A Digital Vernier As Shown Below In Figure 28

Figure 28

Digital Vernier Caliper Being Used To Check Swage Dimension

4 Repeat For Each End Of Every Hose

5 Always Measure The Two Flats Of A Ferrule To Check The Swage Dimension

HEL Performance Motorcycle Brake Line Manufacturing Manual

Section I : Choosing The Correct Banjo Bolts

1 Each Hel Performance Brake Line Specification Features A Special Dash Number On The End Of Each Fitting :

H692-**03**C	=	3/8" Unf (Harley Davidson Only)
H692-**44**C	=	7/16" Unf (Harley Davidson Only)
H692-**31**C	=	M10 X 1.00
H692-**32**C	=	M10 X 1.25

2 As Most Bikes Use All The Same Threads Throughout The Braking System You Simply Select The Correct Amount Of Bolts In The Correct Thread As Follows :

One Line Kit	=	2 Single Bolts
One Front / One Rear	=	4 Single Bolts
Two Front / One Rear	=	4 Single Bolts And 1 Double Bolt
Three Front / One Rear	=	6 Single Bolts And 1 Double Bolt

3 The Only Manufacturer That Has Used Two Types Of Bolt In One Kit Has Been Suzuki On The Later Bikes - It Has Now Changed Over To All M10 X 1.25 For The 2007 Models Onwards. If You Look At The Dash Sizes And The Layout Of The Kit The Required Bolts Become Obvious :

Suzuki GSF600 Bandit K1 - K4 (2 Full Length Front / 1 Rear)

The Suzuki Gsf600 Uses M10 X 1.25 On The Front Calipers Only. This Means That If You Are Making A Full Length Kit You Will Need One M10 X 1.00 Double, Two M10 X 1.25 Single And Two M10 X 1.00 Single Bolts For The Kit.

If However You Are Making The Over The Mudguard Kit You Will Need :

One M10 X 1.25 Double, One M10 X 1.25 Single And Three M10 X 1.00 Singles

4 Remember We Are Here To Help So If You Have Any Questions With Regard To Which Bolts You Require Please Do Not Hesitate To Contact Us On

+44 (0) 1392 811601

Or

+44 (0) 7866 505259

Outside Of Normal Office Hours.

Section J : Packaging The Product

1 Hel Performance Have Always Been At The Forefront Of The Way In Which We Package Our Products And Our Clam Shell Packet Has Been Used Since By Our Competitors. It Allows Us To Provide The Customer With A Professional Looking Kit Which Is Keep Safe And Together In Transit. Please Make Sure You Adhere To The Following Guidelines.

2 All Hoses Must Have One Yellow Hel Tag On Each Assembly - Two On The Rear Hose.

3 All Kits Must Include Two Red, Two Silver And Two White Stickers

4 All Kits Must Include All Banjo Bolts And Copper Washers Securely Fastened In A Small Hel Branded Plastic Bag

5 All Kits Must Be Packaged With Warranty Card Information

6 All Kits Must Be Packaged In A Plastic Clam Shell

7 All Kits Must Include The Hel Insert

Important

8 **When The Kit Has Been Fully Packaged Each End Must Again Be Visually Checked So That No Hoses Are Despatched Without Being Swaged - Again We Reiterate That You Must Visually Check Every End Has Been Swaged Prior To Despatch**

9 Fully Packaged Product Shown Below In Figure 29

Figure 29

Finished Kit Complete In Box With All Required Items

HEL Performance Motorcycle Brake Line Manufacturing Manual

Section K : Testing The Brake Hose Assemblies

1 Hel Performance Regularly Batch Test Each New Delivery Of Fittings To Ensure That They Meet With Our Manufacturing Requirements And Pressure Test

2 Any External Manufacturer Should Obtain Their Own Test Facilities For Insurance Purposes And To Safeguard Quality And Performance

3 Hel Performance Use The Following Test Procedure To Test Hoses In House

4 Select Correct Adapter / Bolt To Suit Hose And Fit Hose Assembly To Be Tested To Test Rig Securely

5 Screw The Hose Assembly To The Adapters Between Th Manifolds And Tighten

6 Set The Main Pressure Gauge To The Required Test Pressure

7 Ensure Door Is Closed

8 Start The Test Cycle By Pressing Black Start Button

9 While Hose Is Under Pressure Visually Check For Leaks, Weakness Or Twisting

10 If Cycle Needs To Be Interrupted Press Red Stop Button

11 When Cycle Is Complete The Main Pressure Gauge Reading Will Return To Zero

12 Hose Assembly Can Be Removed

13 Any Test Failures Should Be Recorded By Way Of A Non-Conformance Letter And Held In Quarantine

14 Hose Should Be Blown Through Using Compressed Air To Remove All Fluid And Allowed To Dry Before Despatch

Confirmation And Acceptance Of The Manufacturing Manual

We Confim That By Accepting This Manual We Have Read And Fully Understood All Of The Enclosed Information And Instructions Contained Within This Manual.

All Members Of Staff Who Are Or Who Will Be Involved With Any Part Of The Manufacturing Processes Involved With Hel Performance Brake Lines Have Fully Understood All Parts Of The Manual And The Manufacturing Process.

Hel Performance Have Given Full Training To Our Company And We Are Satisfied With The Information And Training Given With Regard To The Brake Line System.

We Agree To Only Manufacture Hel Performance Brake Line Kits Using This System And Agree To Only Use Hel Performance Supplied Material, Fittings, Hose And Ancillary Products In The Manufacture Of Hel Brake Line Kits.

We Also Agree That We Will Only Use The Hel Performance Database For The Manufacture Of Hel Performance Brake Line Kits.

Additional Notes

Terms and Conditions

1. Interpretation

1.1 In these conditions :

'Buyer' means the person who accepts a quotation of the Seller for the sale of Goods or whose order for Goods is accepted by the Seller
'Conditions' means these standard terms and conditions of sale 'Contract' means the Contract for the purchase and sale of the Goods
'Goods' means the Goods (including any installment of the Goods or any parts for them) which the Seller is to supply in accordance with these conditions
'Seller' means Hose-Equip Limited of Lower Trelake Business Park Tedburn Road Whitestone Exeter
'Seller's Goods' means any Goods manufactured by the Seller
'Writing' includes telex cable facsimile and electronic transmission, and comparable means of communication

1.2 Any reference in these Terms and Conditions to any provision of statute shall be construed as a reference to that provision as amended re-enacted or extended at the relevant time

2 Basis Of The Sale

2.1 The Seller shall sell and the Buyer shall purchase Goods in accordance with any quotation of the Seller which is accepted by the Buyer or any order of the Buyer which is accepted by the Seller subject in either case to these Conditions which shall govern the Contract to the exclusion of any other Terms and Conditions. No variation to these Conditions shall be binding unless agreed in writing between the authorised representatives of the Buyer and the Seller.

2.2 The Seller's employees or agents are not authorised to make any representations concerning the Goods.

2.3 Any typographical clerical or other error or omission in any sales literature quotation price list acceptance of offer invoice or other document or information issued by the Seller may be corrected by the Seller without any liability on the part of the Seller.

3 Orders and Specifications

3.1 The quantity quality and description of and any specification for the Goods shall be those set out in the Seller's quotation (if accepted by the Buyer) or the Buyer's order (if accepted by the Seller)

3.2 If the Goods are to be manufactured or any process is to be applied to the Goods by the Seller in accordance with a specification submitted by the Buyer ("the Services") the Buyer shall indemnify the Seller against all loss damages costs and expenses awarded against or incurred by the Seller in connection with or paid or agreed to be paid by the Seller in settlement of any claim for infringement of any patent copyright design trade mark or other industrial or intellectual property rights of any other person which results from the Seller's us of the Buyer's specification.

3.3 The Seller reserves the right to make any changes in the specification of the Goods or manner of delivery of the Services which are required to conform with any applicable statutory or regulatory requirements.

3.4 No order which has been accepted by the Seller may be cancelled by the Buyer except with the agreement in writing of the Seller and on terms that Buyer shall indemnify the Seller in full against all loss (including loss of profit) costs (including the cost of all labour and materials used) damages charges and expenses incurred by the Seller as a result of cancellation.

4 Price of the Goods/Services

4.1 The price of Goods shall be the Seller's quoted price or where no price has been quoted (or a quoted price is no longer valid) the price listed in the Seller's published catalogue or price list current at the date of despatch of the Goods. All prices quotations or estimates are subject to alteration without notice.

4.2 The Seller reserves the right by giving notice to the Buyer at any time before delivery of the Goods to increase the price of the Goods to reflect any increase in the cost to the Seller which is due to any factor beyond the control of the Seller.

4.3 Where the Seller agrees to deliver the Goods otherwise than at the Seller's premises the Buyer shall be liable to pay the Seller's charges for transport packaging and insurance.

4.4 The price is exclusive of any applicable value added tax which the Buyer shall be additionally liable to pay the Seller.

5 Terms of Payment

5.1 The Seller shall be entitled to invoice the Buyer for the price of the Goods on or at any time after acceptance of order.

5.2 The Buyer shall pay the price of the Goods in cleared funds on delivery.

5.3 If the Buyer fails to make any payment on the due date then without prejudice to any other right remedy available to the Seller the Seller shall be entitled to :

5.3:1 cancel the Contract or suspend further deliveries of Goods

5.3:2 appropriate any payment made by the Buyer to such of the Goods (or the Goods supplied under any other Contract between the Buyer and the Seller) provided as the Seller may think fit (notwithstanding any purported appropriation by the Buyer); and/or

5.3:3 charge the Buyer interest (both before and after any judgement) on the amount unpaid at the rate of 2% per cent per annum above Barclays Bank base rate from time to time until payment in full is made (a part of a month being treated as a whole month for the purposes of calculating interest).

6 Delivery

6.1 Delivery of the Goods shall be made by the Seller at premises specified by the Buyer

6.2 Any dates quoted for delivery of the Goods or provision of the Services are approximate only and the Seller shall not be liable for any delay in delivery of the Goods or provision of the Services however caused. Time for delivery shall not be the essence of the Contract.

6.3 The Seller shall not be liable for any loss, direct or indirect incurred by the Buyer as a result of any delay in delivery or a failure to deliver.

6.4 Partial loss or damage to a delivery of the Goods must be notified within 3 days of delivery. Non-delivery must be notified within 14 days of the date of despatch to both the Seller and any carrier.

7 Risk and Property

7.1 Risk of damage to or loss of the Goods shall pass to the Buyer

7.1.1 in the case of Goods for delivery to the Seller's premises at the time when the Seller notifies the Buyer that the Goods are available for collection; or

7.1.2 in the case of Goods being delivered otherwise than at the Seller's premises (delivery by the Seller) at the time of delivery or if the Buyer wrongfully fails to take delivery of the Goods at the time the Seller has tendered delivery of the Goods; or

7.1.3 in the case of Goods delivered by an independent carrier (not being an employee of the Seller) at the time the Seller has tendered the Goods to the carrier; or

7.2 The property of the Goods shall not pass to the Buyer until the Seller has received in cash or cleared funds payment in full of the price of the Goods and/or all other Goods or Services agreed to be sold by the Seller to the Buyer for which payment is then due.

7.3 Until such time as the property in the Goods passes to the Buyer (and provided the Goods are still in existence and have not been resold) the Seller shall be entitled at any time to require the Buyer to deliver up the Goods to the Seller and if the Buyer fails to do so forthwith to enter upon any premises of the Buyer or any third party where the Goods are stored and repossess the Goods at the Buyers expense. a hire charge at the Seller's current rate may be levied for the period the Goods were in the Buyer's possession.

8 Warranties and Liabilities

8.1 Subject to the conditions set out below the Seller warrants that the Seller's Goods will correspond with their specification and will be free from defects in material and workmanship at the time of delivery.

8.2 The above warranty is given by the Seller subject to the following conditions:

8.2.1 the Seller shall be under no liability in respect of any defect arising from fair wear and tear wilful damage negligence abnormal operating conditions failure to follow the Seller's or manufacturers instructions (including without limitation, failure to follow any instructions given regarding the installation, connection or maintenance of the Goods) or misuse of the Seller's Goods without the Seller's approval.

8.2.2 the Seller shall be under no liability under the above warranty (or any other warranty condition or guarantee) if the total price for the Goods has not been paid by the due date for payment.

8.2.3 the Seller shall be under no liability under the above warranty (or any other warranty condition or guarantee) if the Seller's Goods have been altered or repaired in any manner outside of the Seller's premises.

8.2.4 the Seller shall be under no liability in respect of any defect arising from use of the Seller's Goods in racing conditions or from modifications made to them.

8.3 The Seller shall be under no liability under brands other than the Seller's or any unbranded Goods not of the Seller's manufacture. Such Goods are sold subject to the conditions and guarantee (if any) of the manufacturer.

8.4 Subject as expressly provided in these Conditions and except where the Goods are sold to a person dealing as a consumer (within the meaning of the Unfair Contract Act 1977) all warranties, conditions or other terms implied by statute or common law are excluded to the fullest extent permitted by law, and the Seller shall not accept any liability for consequential loss.

8.5 Where the Goods are sold under a consumer transaction as defined by the Consumer Transactions (Restrictions on Statements) (Order 1976) the statutory rights of the Buyer are not affected by these Conditions.

8.6 any claim by the Buyer which is based on any defect in the quality or condition of the Goods or their failure to correspond with specification shall (whether or not delivery is refused by the Buyer) be notified to the Seller within 7 days of the date of delivery or (where the defect or failure was not apparent on reasonable inspection) within a reasonable time after discovery of the defect or failure. If delivery is not refused and the Buyer does not notify the Seller accordingly the Buyer shall not (except in respect of a defect or failure not apparent on reasonable inspection) be entitled to reject the Goods and the Seller shall have no liability for such defect or failure and the Buyer shall be bound to pay the price as if the Goods had been delivered in accordance with the Contract.

8.7 Where the Buyer wishes to make any claim in respect of any of the Seller's Goods which is based on any defect in the quality or condition of the Seller's Goods or their failure to meet specification is notified to the Seller, the Buyer must return the Seller's Goods to the Seller's premises within 30 days of delivery (failure to do so will render any claim void) carriage paid. If the Seller accepts the claim the Seller shall be entitled to replace the Seller's Goods free of charge or at the Seller's discretion refund to the Buyer the price of the Seller's Goods but the Seller shall have no further liability to the Buyer. Any Seller's Goods made to special order may not be returned unless defective.

8.8 The Seller may at its sole discretion accept return of Goods for credit, provided :

8.8.1 a handling charge of 20% may be levied at the Seller's sole discretion

8.8.2 the Goods are returned to the Seller, carriage paid, in resaleable condition.

8.9 Except in respect of death or personal injury caused by the Seller's negligence the Seller shall not be liable to the Buyer by reason of any representation (except fraudulent) or any implied warranty condition or other term or any duty at common law or under the express terms of the Contract for any indirect special or consequential loss or damage (whether for loss of profit or otherwise) costs expenses or other claims for compensation whatsoever (whether caused by the negligence of the Seller by its employees or agents or otherwise) which arise out of or in connection with the supply of the Goods or their use or resale by the Buyer or theprovision of the Services and the entire liability of the Seller under or in connection with the Contract shall not exceed the price of the Goods or relevant Services except as expressly provided in these Conditions.

8.10 The Seller shall not be liable to the Buyer or be deemed in breach of the Contract by reason of delay in performing or any failure to perform any of the Sellers obligations in relation to the Goods or the provision of the Services if the delay or failure was due to any cause beyond the Seller's reasonable control.

9 Insolvency of Buyer

9.1 This clause applies if :

9.1.1 the Buyer makes any voluntary arrangement with its creditors or (being an individual or firm) becomes bankrupt or (being a company) becomes subject to an administration order or goes into liquidation (otherwise than for the purposes of amalgamation or reconstruction); or

9.1.2 an encumbrancer takes possession or a receiver or administrative receiver is appointed over any of the property or assets of the Buyer; or

9.1.3 the Buyer ceases or threatens to cease to carry on business; or

9.1.4 the Seller reasonably apprehends that any of the events mentioned above is about to occur in relation to the Buyer and notifies the Buyer accordingly, or suffers any action analogous to any of the foregoing events.

9.2 If this clause applies then without prejudice to any other right or remedy available to the Seller the Seller shall be entitled to cancel theContract without any liability to the Buyer and if the Goods have been delivered but not paid for the price of the Goods shall become immediately due and payable notwithstanding any previous agreement or arrangement to the contrary.

10 Specification

Any performance details given by the Seller are based upon our experience and are such as we expect to obtain on test or as notified to the manufacturer of the Goods. The Buyer assumes the responsibility for the capacity and performance of the Goods being sufficient and suitable for the Buyer's purposes. The Buyer is additionally responsible for the correct fitment, installation and servicing of the Goods.

11 General

11.1 Neither party may assign, charge or sub contract this Agreement or any part of it without the other's prior written consent.

11.2 Any notice required or permitted to be given by either party to the other under these Conditions shall be in writing addressed to that other party at its registered office or principle place of business or last known address such other address as mat at the relevant time have been notified pursuant to this provision to the party giving the notice.

11.3 No waiver by the Seller of any breach of the Contract by the Buyer shall be considered as a waiver of any subsequent breach or same or any other provision.

11.4 If any provision of these Conditions held by any competent authority to be invalid or unenforcable in whole or in part the validity of the other provisions of these Conditions and the remainder of the provision in question shall not be affected.

11.5 The Contract shall be governed by the Laws of England and the Buyer agrees to submit to the non-exclusive jurisdiction of the English courts.

11.6 It is the responsibility of the Buyer to ensure that the Goods ordered meet with all local requirements specific to the country they are to be used in, including without limitation all applicable local laws and regulations. If the Goods do not meet with these requirements than they are sold for off road / racing use only and the Buyer is referred to clause 8.2.4 for the conditions relating to such use. Subject to clause 8.9 the Seller excludes all liability in respect of Goods sold outside the jurisdiction of England and Wales and the Buyer shall indemnify the Seller against any costs, claims, losses or expenses arising as a result of any failure by the Buyer to comply with the obligations of this clause.

11.7 All Goods in this catalogue were not manufactured by the original equipment manufacturer or under their supervision or control. The use of the manufacturers make and model details remain the sole property of the manufacturer. No reproduction of any such make or model descriptions, or any images contained in this catalogue shall be made without the prior written consent of the Seller.

11.8 After the Buyer has placed an order, unless the Buyer specifically instructs the Seller otherwise in writing, the Seller will be entitled to add the Buyer's details, as provided on the order to it's database, and reserves the right to contact the Buyer with further marketing information. the Buyer's data will not be transferred to third parties.

11.9 Nothing in this Agreement shall confer any benefit or any right on any person who is not a party to this Agreement under the Contracts (Rights of Third Parties) Act 1999.

E and OE.

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