



RESPONSE®

www.response-products.com

Catalogue 2022-2023

"INNER CIRCLE" rim protection inserts

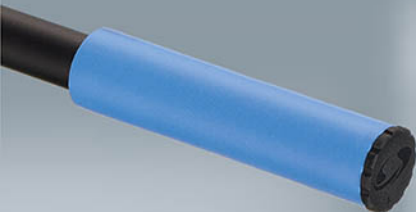


- Non-toxic, environment friendly foam
- Closed cell foam does not absorb tire sealant
- Resistant to tire sealant
- FPF-01 "S" size for 1.9" -2.2" tires
- FPF-02 "M" size for 2.3"-2.5" tires
- FPF-03 "L" size for 2.5"-3.0" tires
- Recommend to use the tubeless valves included
- Weight reference:
 - FPF-01 79.0g for a 29er wheel
 - FPF-02 91.0 g for a 29er wheel
 - FPF-03 132.0g for a 29er wheel



*Tubeless valve for
INNER CIRCLE inserts*

Handlebar plug with tubeless tire repair tool

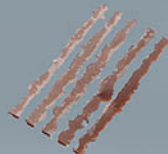


- Silicone plugs with great elasticity, anti-slip, weather resistance and vibration absorbability property. Non-toxic, environment friendly

- Weight : FHTR-01 12.0g
FHTR-02 13.4g



3.5mm tire seals



1.5mm tire seals



FHTR-01



FHTR-02

Carbon MTB handlebars 31.8mm bar bore

Made from T-700 carbon fiber casing.
Use RTM (Resin Transfer Moulding) process.
This process yields increased laminate compression,
a high glass-to-resin ratio and outstanding strength
to weight characteristics.



VENTURE 159

31.8mm, 15 degree rise/ 9 degree backsweep
UD finish, 660-800mm. weight reference 213g/800mm



VENTURE 256

31.8mm, 25 degree rise/ 6 degree backsweep
UD finish, 660-800mm. weight reference 213g/800mm



VENTURE F9

31.8mm, 0 degree rise/ 9 degree backsweep
UD finish, 580-800mm. weight reference 202g/800mm



VENTURE F4

31.8mm, 0 degree rise/ 4 degree backsweep
UD finish, 580-800mm. weight reference 200g/800mm



FEDERAL SPORTING GOODS MFG. CO., LTD.
8, Lane 428, Sec. 1, Fong Yuan Blvd. Fong Yuan,
Taichung, Taiwan
TEL: (886) 4 2532 2789 FAX: (886) 4 2531 0006
E mail: larry510@ms54.hinet.net
www.response-products.com

Carbon MTB handlebars 35mm bar bore

Made from T-700 carbon fiber casing.
Use RTM (Resin Transfer Moulding) process.
This process yields increased laminate compression,
a high glass-to-resin ratio and outstanding strength
to weight characteristics.



RANGER 257

35.0mm, 25 degree rise/ 7 degree backsweep
UD finish, 660-800mm. weight reference 230g/800mm



RANGER F9

35.0mm, 0 degree rise/ 9 degree backsweep
UD finish, 660-800mm. weight reference 220g/800mm



FEDERAL SPORTING GOODS MFG. CO., LTD.
8, Lane 428, Sec. 1, Fong Yuan Blvd. Fong Yuan,
Taichung, Taiwan
TEL: (886) 4 2532 2789 FAX: (886) 4 2531 0006
E mail: larry510@ms54.hinet.net
www.response-products.com

Carbon ROAD handlebars 31.8mm bar bore

Made from T-700 carbon fiber casing.
Use RTM (Resin Transfer Moulding) process.
This process yields increased laminate compression,
a high glass-to-resin ratio and outstanding strength to
weight characteristics.



FRCH-11

31.8mm, Reach 75mm, Drop 120mm,
UD finish, width 400mm/420mm/440mm
weight reference 205g/420mm



FRCH-14

31.8mm, Reach 105mm, Drop 130mm, internal cable routing,
UD finish, width 400mm/420mm/440mm
weight reference 250g/420mm



FRCH-12

31.8mm, Reach 80mm, Drop 130mm,
UD finish, width 400mm/420mm/440mm
weight reference 210g/420mm



FRCH-15

31.8mm, Reach 80mm, Drop 130mm, internal cable routing,
UD finish, width 400mm/420mm/440mm
weight reference 265g/420mm



BOOST HUBS converter

" the easiest way to convert your 100mm/142mm hubs to BOOST system "

Convert 15mm*100mm to 15mm*110mm



FBHC-F1

- 5mm AL6061 disc rotor spacer 1pc
- 5mm AL6061 axle spacer 2pcs
- Longer rotor screws 6pcs
- Weight : 13.4 grms (not including screws)

Convert 12mm*142mm to 12mm*148mm



FBHC-R1

- 3mm AL6061 disc rotor spacer 1pc
- 3mm AL6061 axle spacer 2pcs
- Longer rotor screws 6pcs
- Weight : 8.4 grms (not including screws)



CHAIN GUIDES



FCG-E



FCG-D



FCG-IS05



FCG-ST349

- AL6061 aluminium alloy.
- Full CNC made.
- Dual compound plastic guide reduces noise from chain contact.
- Easy to adjust.
- Range : 28T - 38T
- FCG-E : for E tyupe Weight : 34g
- FCG-D : for D tyupe Weight : 53g
- FCG-IS05 : for ISCG05 Weight : 49g
- FCG-ST349 : for seat tube 34.9mm Weight : 57g
- Alloy mount colours : anodised black, red.



Dual compound guide reduces noise

ttt thick thin teeth E bike 104BCD



- 104BCD out fit type.
- Thick Thin teeth profile keeps the chain in place.
- For E bikes.
- Full CNC Carbon steel for best strength.
- Available with 32t, 34t

- 104BCD
- Thick Thin teeth profile keeps the chain in place.
- For E bikes.
- Full CNC Carbon steel for best strength.
- Available with 32t, 34t

BEARING EXTRACTING & ASSEMBLING TOOLS



FBT-200

for MTB frame bearings

bearing size:

698 (19x8), 6800 (19x10),
608 (22x8), 6900 (22x10),
6901 (24x12), 6802 (24x15),
6000 (26x10), 16001(28x12),
6902 (28x15), 6903 (30x17),
16002 (32 x15), 6804 (30x20)



FBT-201

for MTB frame double bearings

bearing size:

6800 (19x10), 6901 (24x12),
6902 (28x15), 6804 (30x20)



FBT-204

for repairing oversized hole and
assembling bearing



FBT-203

for bottom bracket bearings

BB30, BB86, BB92



FBT-202

for hub bearings

bearing size:

688 (16x8), 6800 (19x10),
6900 (22x10), 6802 (24x15),
6000 (26x10), 6902 (28x15)



Plastic box packing

ttt thick thin teeth 104 BCD

- Thick Thin teeth profile keeps the chain in place.
- Compatible with 10, 11 and 12 speed chains
- Full CNC AL7075 aluminium alloy I beam design for best strength / weight.
- Compatible with 104 BCD cranks.
- Available in 30t, 32t, 34t and 36t.
- Weight : 40g/30t, 48g/32t, 57g/34t, 61g/36t
- Colours : anodised black, red, blue or grey



32T



32T



34T



36T



OVAL thick thin teeth 104 BCD



- Thick Thin Thick profile keeps the chain in place.
- Compatible with 10, 11 and 12 speed chains.
- AL7075 aluminium alloy I beam design for best strength / weight.
- Compatible with 104BCD cranks.
- Available in 32t and 34t.
- Weight : 47g/32t, 41g/34t
- Colours : anodised black, red, blue or grey



FEDERAL SPORTING GOODS MFG. CO., LTD.
8, Lane 428, Sec. 1, Fong Yuan Blvd. Fong Yuan,
Taichung, Taiwan
TEL: (886) 4 2532 2789 FAX: (886) 4 2531 0006
E mail: larry510@ms54.hinet.net
www.response-products.com

ttt thick thin teeth BOOST GXP type



- Thick Thin teeth profile keeps the chain in place.
- Compatible with 12, 11 and 10 speed chains.
- AL7075 aluminium alloy for best strength / weight.
- Compatible with BOOST GXP cranks. 3MM OFFSET
- Available with 28t, 30t, 32t, 34t and 36t
- Weight: 53g/28t, 60g/30t, 68g/32t, 75g/34t, 82g/36t
- Colours: Anodized black, red, blue or grey

OVAL thick thin teeth BOOST GXP type



- Thick Thin teeth profile keeps the chain in place.
- Compatible with 12, 11 and 10 speed chains.
- AL7075 aluminium alloy for best strength / weight.
- Compatible with BOOST GXP cranks. 3MM OFFSET
- Available with 32t, and 34t
- Weight: 65g/32t, 72g/34t
- Colours: Anodized black, red, blue or grey

ttt thick thin teeth GXP type



24mm diameter axle bolt on spider cranksets	No Offset BB30	6MM Offset GXP
Any chainring combination		X

30 mm diameter axle bolt on spider cranksets	No Offset BB30	6MM Offset GXP
XX1	X	
X01	X	
X1	X	
X0 & X9 triple chainring	X	
X0 & X9 42/28	X	
X0 & X9 39/26	X	
X0 & X9 38/24		X
X0 & X9 36/22		X
X0 & X9 34/22		X

- Thick Thin Thick profile keeps the chain in place.
- Compatible with 10, 11 and 12 speed chains.
- AL7075 aluminium alloy full CNC.
- Compatible with GXP type cranks.
- Available with 26t, 28t, 30t, 32t, 34t and 36t
- Weight : 45g/ 26t, 54g/ 28t, 60g/ 30t, 70g/ 32t, 77g/ 34t, 84g/ 36t
- Colours : anodised black, red, blue, grey

OVAL thick thin teeth GXP type



24mm diameter axle bolt on spider cranksets	No Offset BB30	6MM Offset GXP
Any chainring combination		x

30 mm diameter axle bolt on spider cranksets	No Offset BB30	6MM Offset GXP
XX1	x	
X01	x	
X1	x	
X0 & X9 triple chainring	x	
X0 & X9 42/28	x	
X0 & X9 39/26	x	
X0 & X9 38/24		x
X0 & X9 36/22		x
X0 & X9 34/22		x

- Thick Thin Thick profile keeps the chain in place.
- Compatible with 10, 11 and 12 speed chains.
- AL7075 aluminium alloy full CNC.
- Compatible with GXP type cranks.
- Available in 32t and 34t.
- Weight : 71g/32t, 81g/34t
- Colours : anodised black, red, blue or grey

ttt thick thin teeth BB30 type



- Thick Thin Thick profile keeps the chain in place.
- Compatible with 11 and 10 speed chains.
- AL7075 aluminium alloy full CNC.
- Compatible with BB30 type cranks.
- Available with 26t, 28t, 30t, 32t, 34t and 36t
- Weight : 47g/ 26t, 53g/ 28t, 57g/ 30t, 64g/ 32t, 69g/ 34t, 76g/ 36t
- Colours : anodised black, red, blue, grey

24mm diameter axle bolt on spider cranksets	No Offset BB30	6MM Offset GXP
Any chainring combination		X

30 mm diameter axle bolt on spider cranksets	No Offset BB30	6MM Offset GXP
XX1	X	
X01	X	
X1	X	
X0 & X9 triple chainring	X	
X0 & X9 42/28	X	
X0 & X9 39/26	X	
X0 & X9 38/24		X
X0 & X9 36/22		X
X0 & X9 34/22		X

OVAL thick thin teeth BB30 type



24mm diameter axle bolt on spider cranksets	No Offset BB30	6MM Offset GXP
Any chainring combination		x

30 mm diameter axle bolt on spider cranksets	No Offset BB30	6MM Offset GXP
XX1	x	
X01	x	
X1	x	
X0 & X9 triple chainring	x	
X0 & X9 42/28	x	
X0 & X9 39/26	x	
X0 & X9 38/24		x
X0 & X9 36/22		x
X0 & X9 34/22		x

- Thick Thin Thick profile keeps the chain in place.
- Compatible with 11 and 10 speed chains.
- AL7075 aluminium alloy full CNC.
- Compatible with BB30 type cranks.
- Available in 32t and 34t.
- Weight : 60g/32t , 71g/34t
- Colours : anodised black, red, blue or grey



FEDERAL SPORTING GOODS MFG. CO., LTD.
8, Lane 428, Sec. 1, Fong Yuan Blvd. Fong Yuan,
Taichung, Taiwan
TEL: (886) 4 2532 2789 FAX: (886) 4 2531 0006
E mail: larry510@ms54.hinet.net
www.response-products.com

thick thin teeth XTR M9100 direct mount



- Thick Thin teeth profile keeps the chain in place.
- Compatible with 12 and 11 speed chains.
- Full CNC AL7075 aluminium alloy for best strength.
- Compatible with XTR M9100 direct mount cranks.
- Available with 30t , 32t , 34t and 36t
- Weight : 75g/30t , 83g/32t , 93g/34t



FEDERAL SPORTING GOODS MFG. CO., LTD.
8, Lane 428, Sec. 1, Fong Yuan Blvd. Fong Yuan,
Taichung, Taiwan
TEL: (886) 4 2532 2789 FAX: (886) 4 2531 0006
E mail: larry510@ms54.hinet.net
www.response-products.com

OVAL thick thin teeth XTR M9100 direct mount



- Thick Thin Thick profile keeps the chain in place.
- Compatible with 12 and 11 speed chains.
- Full CNC AL7075 aluminium alloy for best strength.
- Compatible with XTR M9100 direct mount cranks.
- Available in 30t, 32t and 34t.
- Weight : 75G/30t, 78g/32t, 84g/34t



FEDERAL SPORTING GOODS MFG. CO., LTD.
8, Lane 428, Sec. 1, Fong Yuan Blvd, Fong Yuan,
Taichung, Taiwan
TEL: (886) 4 2532 2789 FAX: (886) 4 2531 0006
E mail: larry510@ms54.hinet.net
www.response-products.com

ttt thick thin teeth Race Face Cinch type



- Thick Thin Thick profile keeps the chain in place.
- Compatible with 12, 11 and 10 speed chains.
- AL7075 aluminium alloy full CNC.
- Compatible with Race Face Cinch type cranks.
- Available in 28t, 30t, 32t, 34t and 36t
- Weight : 58g/28t, 65g/30t, 73g/32t, 80g/34t, 87g/36t
- Colours : anodised black, red, blue or grey



OVAL thick thin teeth Race Face Cinch type



- Thick Thin Thick profile keeps the chain in place.
- Compatible with 11 and 10 speed chains.
- AL7075 aluminium alloy full CNC.
- Compatible with Race Face Cinch type cranks.
- Available in 32t and 34t.
- Weight: 77g/32t, 89g/34t
- Colours: anodised black, red, blue or grey



FEDERAL SPORTING GOODS MFG. CO., LTD.
8, Lane 428, Sec. 1, Fong Yuan Blvd, Fong Yuan, Taichung, Taiwan
TEL: (886) 4 2532 2789 FAX: (886) 4 2531 0006
E mail: larrys10@ms54.hinet.net
www.response-products.com

ttt thick thin teeth M8000 type



- Thick Thin teeth profile keeps the chain in place.
- Compatible with 10, 11 and 12 speed chains.
- AL7075 aluminium alloy I beam design for best strength / weight.
- Compatible with XT M8000 cranks. 96BCD
- Available with 30t, 32t, 34t and 36t
- Weight : 42g/30t, 50g/32t, 60g/34t, 74g/36t
- Colours : sand blasting black, red, blue or grey



FEDERAL SPORTING GOODS MFG. CO., LTD.
8, Lane 428, Sec. 1, Fong Yuan Blvd, Fong Yuan, Taichung, Taiwan
TEL: (886) 4 2532 2789 FAX: (886) 4 2531 0006
E mail: larry510@ms54.hinet.net
www.response-products.com

OVAL thick thin teeth M8000 type



- Thick Thin Thick profile keeps the chain in place.
- Compatible with 10, 11 and 12 speed chains.
- AL7075 aluminium alloy I beam design for best strength / weight.
- Compatible with XT M8000 cranks. 96BCD
- Available in 32t and 34t.
- Weight: 48g / 32t, 53g / 34t
- Colours: anodised black, red, blue or grey

ttt thick thin teeth M9000 type



- Thick Thin teeth profile keeps the chain in place.
- Compatible with 11 and 10 speed chains.
- AL7075 aluminium alloy I beam design for best strength / weight.
- Compatible with XTR M9000 & M9020 cranks. 96BCD
- Use XTR M7 chainring bolts.
- Available with 30t, 32t, 34t and 36t
- Weight : 43g/30t, 50g/32t, 60g/34t, 74g/36t
- Colours : sand blasting black, red, blue or grey



FEDERAL SPORTING GOODS MFG. CO., LTD.
8, Lane 428, Sec. 1, Fong Yuan Blvd, Fong Yuan, Taichung, Taiwan
TEL: (886) 4 2532 2789 FAX: (886) 4 2531 0006
E mail: larry510@ms64.hinet.net
www.response-products.com

OVAL thick thin teeth M9000 type



- Thick Thin Thick profile keeps the chain in place.
- Compatible with 11 and 10 speed chains.
- AL7075 aluminium alloy I beam design for best strength / weight.
- Compatible with XTR M9000 and M9020 cranks. 96BCD
- Use XTR M7 chainring bolts.
- Available in 32t and 34t.
- Weight : 48g/32t, 53g/34t
- Colours : anodised black, red, blue or grey



FEDERAL SPORTING GOODS MFG. CO., LTD.
8, Lane 428, Sec. 1, Fong Yuan Blvd. Fong Yuan, Taichung, Taiwan
TEL: (886) 4 2532 2789 FAX: (886) 4 2531 0006
E mail: larry510@ms54.hinet.net
www.response-products.com



thick thin teeth 110BCD type *For Cyclecross and Road*



- Thick Thin teeth profile keeps the chain in place.
- Compatible with 11 and 10 speed chains.
- AL7075 aluminium alloy I beam design for best strength / weight.
- Compatible with 110BCD * 5 arms cranks.
- Available with 38t, 40t, and 42t
- Weight: 64g/38t, 74g/40t, 80g/42t
- Colours: sand blasting black, red, blue or grey

CHAINRING



FEDERAL SPORTING GOODS MFG. CO., LTD.
8, Lane 428, Sec. 1, Fong Yuan Blvd. Fong Yuan, Taichung, Taiwan
TEL: (886) 4 2532 2789 FAX: (886) 4 2531 0006
E mail: larry510@ms54.hinet.net
www.response-products.com

OVAL thick thin teeth 110BCD type for Cyclecross and Road



- Thick Thin teeth profile keeps the chain in place.
- Compatible with 11 and 10 speed chains.
- AL7075 aluminium alloy I beam design for best strength / weight.
- Compatible with 110BCD * 5 arms cranks.
- Available with 40t, and 42t
- Weight : 71g/40t, 78g/42t
- Colours : sand blasting black, red, blue or grey



FEDERAL SPORTING GOODS MFG. CO., LTD.
8, Lane 428, Sec. 1, Fong Yuan Blvd. Fong Yuan, Taichung, Taiwan
TEL: (886) 4 2532 2789 FAX: (886) 4 2531 0006
E mail: larry510@ms54.hinet.net
www.response-products.com

thick thin teeth 110BCD type for Cyclecross and Road

Compatible with Force 22 / Rival 22 cranks with hidden bolt
Keyed chainring hole and nut design



Keyed chainring hole and nut design
keep the hidden chainring bolt/nut
from spinning during installation

- Thick Thin teeth profile keeps the chain in place.
- Compatible with 11 and 10 speed chains.
- AL7075 aluminium alloy I beam design for best strength / weight.
- Compatible with Sram Force 22 / Rival 22 cranks with hidden bolt.
- Keyed chainring hole and nut design with a keyed nut included.
- Available with 38t, 40t, and 42t
- Weight : 64g/38t, 74g/40t, 80g/42t
- Colours : sand blasting black, red, blue or grey



FEDERAL SPORTING GOODS MFG. CO., LTD.
8, Lane 428, Sec. 1, Fong Yuan Blvd. Fong Yuan, Taichung, Taiwan
TEL: (886) 4 2532 2789 FAX: (886) 4 2531 0006
E mail: larry510@ms54.hinet.net
www.response-products.com

OVAL thick thin teeth 110BCD type for Cyclecross and Road

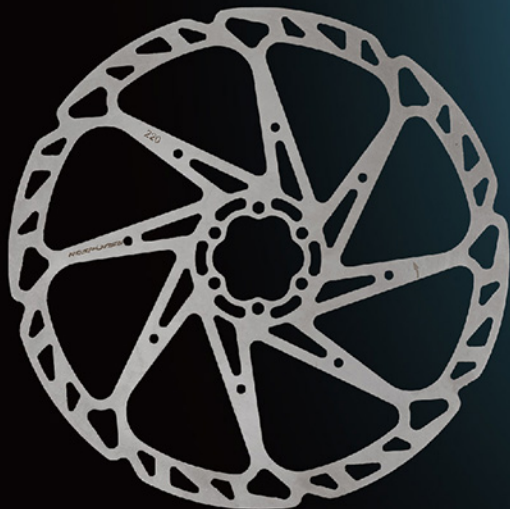
Compatible with Force 22 / Rival 22 cranks with hidden bolt
Keyed chainring hole and nut design





FEDERAL SPORTING GOODS MFG. CO., LTD.
8, Lane 428, Sec. 1, Fong Yuan Blvd. Fong Yuan,
Taichung, Taiwan
TEL: (886) 4 2532 2789 FAX: (886) 4 2531 0006
E mail: larry510@ms54.hinet.net
www.response-products.com

E BIKE DISC ROTOR



FDR-220E 220mm

Material : #420 SUS Stainless steel
Hole pattern : International standard 6 holes
Double ground with ED edge protection
Reduced pad glazing
Clears mud and water
Improved modulation
Superior cooling
Weight : 218g

ALL NEW ULTRA LIGHT WEIGHT **DELTA** DISC ROTORS



FDR-160DELTA
160mm dia - 91 grms



FDR-180DELTA
180mm dia - 112 grms



LIGHT WEIGHT PULSE DISC ROTORS



FDR-160P
160mm dia - 112 grms



FDR-180P
180mm dia - 137 grms



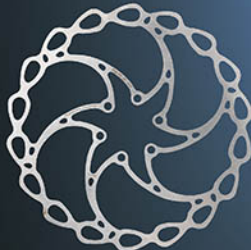
FDR-203P
203mm dia - 170 grms

Material : #410 SUS Stainless steel
Hole pattern : International standard 6 holes
Double ground with ED edge protection
Reduced pad glazing
Clears mud and water
Improved modulation
Superior cooling

ULTRA LIGHT WEIGHT PULSE XC DISC ROTORS



FDR-160PXC
160mm dia – 83 grms



FDR-180PXC
180mm dia – 98 grms



ECONOMIC TYPE DISC ROTORS



FDR-160
160 dia – 132grms



FDR-180
180 dia - 152 grms

- Material : #410 SUS Stainless steel
- Hole pattern : International standard 6 holes
- Double ground with ED edge protection
- Reduced pad glazing
- Clears mud and water
- Improved modulation
- Superior cooling

CHAINRING BOLTS



FOR SINGLE RING

FOR DUAL RINGS

- AL-7075 Alloy CNC machined
- For single ring : bolt 6.5mm long, nut 4mm long
- For dual rings : bolt 8mm long, nut 7.5mm long
- Color available : anodised black, blue, red, grey, gold
- Packing : 4sets /bag or 5sets/bag

packaging



Dispenser pot



Hang bag

TUBELESS VALVES & SEALING TAPES

35mm

TRV-01A

Aluminium alloy Presta valve with removeable core, 3.4g
Colors: black, red, blue, gold

TRV-02A

Brass Presta valve with removeable core, 7.8g

44mm

TRV-03A

Aluminium alloy Presta valve with removeable core, 3.8g
Colors: black, red, blue, gold

TRV-04A

Brass Presta valve with removeable core, 8.8g

55mm

TRV-05A

Aluminium alloy Presta valve with removeable core, 4.6g
Colors: black, red, blue, gold

TRV-06A

Brass Presta valve with removeable core, 10.4g

70mm

TRV-07A

Aluminium alloy Presta valve with removeable core, 5.2g
Colors: black, red, blue, gold

Plastic adaptor for road rim

Alloy Presta valve caps

TVC-01

Material: AL6061 CNC

Colors: black, red, blue, mid blue, gold 0.6g



SUPER THIN SEALING TAPE

TRT-21-5M	21mm wide x 5M roll
TRT-21-10M	21mm wide x 10M roll
TRT-21-60M	21mm wide x 60M roll
TRT-25-5M	25mm wide x 5M roll
TRT-25-10M	25mm wide x 10M roll
TRT-25-60M	25mm wide x 60M roll



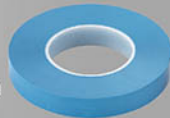
HIGH PRESSURE SEALING TAPE

TRTA-21-5M	21mm wide x 5M roll
TRTA-21-10M	21mm wide x 10M roll
TRTA-21-33M	21mm wide x 33M roll
TRTA-25-5M	25mm wide x 5M roll
TRTA-25-10M	25mm wide x 10M roll
TRTA-25-33M	25mm wide x 33M roll



GENERAL USE SEALING TAPE

TRTC-21-5M	21mm wide x 5M roll
TRTC-21-10M	21mm wide x 10M roll
TRTC-21-100M	21mm wide x 100M roll
TRTC-25-5M	25mm wide x 5M roll
TRTC-25-10M	25mm wide x 10M roll
TRTC-25-100M	25mm wide x 100M roll



RIDE SAVE TIRE SEALANT

Synthetic latex polymer formula with biodegradable particulate



Presta valve core tool



Internal snug thread to join
valve stem as a nozzle



Features

- Synthetic latex polymer formula
- Ammonia free
- Sealing enhanced by biodegradable particulate
Plug leak up to 6mm
- Anti-freeze down to -15 degree Celsius
- Long lasting and non corrosive
- Designed lid can be unscrewed to a upper part as a Presta valve core tool; and a lower part which has snug thread to join valve stem as a nozzle for directly inject sealant to wheels.

Instructions

- Suggestion of volume use:
80ml for Road 23C or 25C tires x 2
150ml for Road/XC/Gravel from 28C – 47C tires x 2
250ml for MTB 2.35"/2.5" of 27.5" or 29" tires x 2
500ml for refill
1000ml for refill
- Shake the bottle vigorously – VERY IMPORTANT



MTB WELDED TUBELESS READY RIMS

20 racing series

LIGHT WEIGHT WELDED RIM
MADE FROM 6066 ALLOY



WTR-20-27.5 :

584 x 20 32H weight: 353g erd: 567mm

WTR-20-29 :

622 x 20 32H weight: 378g erd: 604mm

25 expert series

LIGHT WEIGHT WELDED RIM
MADE FROM 6066 ALLOY



WTR-25-27.5 :

584 x 25 32H weight: 417g erd: 559mm

WTR-25-29 :

622 x 25 32H weight: 449g erd: 596mm

30 expert series

LIGHT WEIGHT WELDED RIM
MADE FROM 6069 ALLOY



WTR-30-27.5 :

584 X 30 32H Weight : 469g erd: 567 mm

WTR-30-29 :

622 X 30 32H Weight : 499g erd: 604 mm

Other color options:
Apple green / Light blue / Red



MTB WELDED TUBELESS READY RIMS

35 expert series

LIGHT WEIGHT WELDED RIM
MADE FROM 6066 ALLOY



WTR-35-27.5 :
584 X 35 32H Weight : 527g erd : 554.5mm

WTR-35-29 :
622 x 35 32H Weight : 550g erd : 592.4mm

38 expert series

LIGHT WEIGHT WELDED RIM
MADE FROM 6069 ALLOY



WTR-38-27.5 :
584 x 36.5 32H Weight : 687g erd : 560.3mm

WTR-38-29 :
622 x 36.5 32H Weight : 730g erd : 598.2mm

45 expert series

LIGHT WEIGHT WELDED RIM
MADE FROM 6066 ALLOY



WTR-45-27.5 :
584 X 45 32H Weight : 623g erd : 566.5mm

Other color options:
Apple green / Light blue / Red



ROAD WELDED TUBELESS READY RIMS

RWR 24



622 x 18 weight : 429g erd : 593mm
20H / 24H / 28H
AL-6066 alloy
CNC side wall for rim brakes

RWR 30



622 x 18 weight : 497g erd : 582mm
20H / 24H / 28H
AL-6066 alloy
CNC side wall for rim brakes

RWR 25



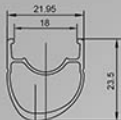
622 x 20 weight : 431g erd : 591.5mm
20H / 24H / 28H
AL-6066 alloy
For disc brake brakes

Other color options:
Apple green / Light blue / Red

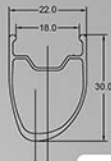


ASYMMETRIC WELDED TUBELESS READY RIMS FOR ROAD BIKES

RWE24



RWE30



Other color options:

Apple green / Light blue / Red



622 x 18 weight: 460g erd: 593mm
20H / 24H / 28H
AL-6066 alloy
CNC side wall for rim brakes

622 x 18 weight: 485g erd: 582mm
20H / 24H / 28H
AL-6066 alloy
For disc brakes

FULL SURFACE ENGAGE DISC HUB



FDH-29RSB-148

- Spoke hole : 14G/32H
- Axle: ID12*148mm AL7075-T6
- Flange PCD 58mm
- 4PCS sealed cartridge bearings
- Finish : anodized black
- Weight : 302 grms
- Freehub body : FULL SURFACE ENGAGE ratchet, AL7075, compatible with SHIMANO 11 speed
- CENTER LOCK
- Options : FDH-29RMSB-148 ID12*148mm, compatible with Shimano micro spline
FDH-29RXB-148 ID12*148mm compatible with Sram XD
- 6 Bolt versions : FDH-28RSB-148 ID12*148mm, compatible with Shimano 11 speed
FDH-28RMSB-148 ID12*148mm, compatible with Shimano micro spline
FDH-28RXB-148 ID12*148mm compatible with Sram XD



FDH-27RSB-142

- Spoke hole : 14G/32H
- Axle: ID12*142mm AL7075-T6
- Flange PCD 58mm
- 4PCS sealed cartridge bearings
- Finish : anodized black
- Weight : 295 grms
- Freehub body : FULL SURFACE ENGAGE ratchet, AL7075, compatible with SHIMANO 11 speed
- CENTER LOCK
- Option : FDH-27RMSB-142 ID12*142mm, compatible with Shimano micro spline
FDH-27RXB-142 ID12*142mm compatible with Sram XD
- 6 Bolt versions : FDH-26RSB-142 ID12*142mm, compatible with Shimano 11 speed
FDH-26RMSB-142 ID12*142mm, compatible with Shimano micro spline
FDH-26RXB-142 ID12*142mm compatible with Sram XD



**FULL SURFACE
ENGAGE ratchet**

BOOST DISC HUBS



FDH-09FB

Spoke hole : 14G/32H
Axle : ID15*110mm AL7075-T6
Flange PCD : 58mm
2PCS sealed cartridge bearings
Finish : anodized black
Weight : 159 grms



FDH-10FB

Spoke hole : 14G/32H
Axle : ID15*110mm AL7075-T6
Flange PCD : 58mm
2PCS sealed cartridge bearings
Finish : anodized black
Weight : 159 grms
CENTER LOCK



FDH-22RSB-148

Spoke hole : 14G/32H
Axle : ID12*148mm AL7075-T6
Flange PCD : disc 58mm/drive 64mm
4PCS sealed cartridge bearings
Finish : anodized black
Weight : 342 grms
Freehub body : 6 pawls*102T ratchet, AL7075,
compatible with Shimano 11 sp

Option:
FDH-22RXB-148 ID12*148mm,
compatible with Sram XD



FDH-22RMSB-148

Spoke hole : 14G/32H
Axle : ID12*148mm AL7075-T6
Flange PCD : disc 58mm/drive 64mm
4PCS sealed cartridge bearings
Finish : anodized black
Weight : 329 grms
Freehub body : 6 pawls*102T ratchet, AL7075,
compatible with Shimano
micro spline 12SP



FDH-23RXB-148

Spoke hole : 14G/32H
Axle : ID12*148mm AL7075-T6
Flange PCD : disc 58mm/drive 64mm
4PCS sealed cartridge bearings
Finish : anodized black
Weight : 310 grms
Freehub body : 6 pawls*102T ratchet, AL7075,
compatible with Sram XD

CENTER LOCK

Option:
FDH-23RSB-148 ID12*148mm,
compatible with Shimano 11sp
FDH-23RMSB-148 ID12*148mm
compatible with Shimano micro spline



Sram XD compatible
6 pawls*102T ratchet
freehub



FEDERAL SPORTING GOODS MFG. CO., LTD.
8, Lane 428, Sec. 1, Fong Yuan Blvd. Fong Yuan,
Taichung, Taiwan
TEL: (886) 4 2532 2789 FAX: (886) 4 2531 0006
E mail: larry510@ms54.hinet.net
www.response-products.com

CYCLE CROSS / ROAD DISC HUBS



FDH-08FB

Spoke hole : 14G / 24H
Axle : ID12 *100 MM AL7075-T6
Flange PCD : 58mm
Finish : anodized black
2 PCS sealed cartridge bearings
Weight : 137 grms



FDH-56FB

Spoke hole : 14G/24H
Axle : ID12 *100 MM AL7075-T6
Flange PCD : 58 MM
Finish : anodized black
2 PCS sealed cartridge bearings
Weight : 137 grms
CENTER LOCK



FDH-55RSB-142

Spoke hole : 14G/24H, 28H
Axle : ID12*142 MM AL7075-T6
4 PCS sealed cartridge bearings
Freehub body : 4 pawls/4 springs, AL7075 11 SP,
Shimano compatible
Option : FDH-55RXB-142 ID12*142mm
compatible with Sram XDR

FDH-55RCB-142 ID12*142mm
compatible with Campy
Finish : anodized black
Weight : 276 grms
Flange PCD : 58 MM



FDH-56RSB-142

Spoke hole : 14G/24H, 28H
Axle : ID12*142 MM AL7075-T6
4 PCS sealed cartridge bearings
Freehub body : 4 pawls/4 springs, AL7075 11 SP,
Shimano compatible

CENTER LOCK

Option :
FDH-56RXB-142 ID12*142mm
compatible with Sram XDR
FDH-56RCB-142 ID12*142mm
compatible with Campy
Finish : anodized black
Weight : 276 grms
Flange PCD : 58 MM

DISC HUBS

MTB DISC HUBS



FDH-08FB

Spoke hole : 14G/32H
Axle : ID15*100mm AL7075-T6
Flange PCD : 58mm
2PCS sealed cartridge bearings
Finish : anodized black
Weight : 137 grms



FDH-56FB

SSpoke hole : 14G/32H
Axle : ID15*100mm AL7075-T6
Flange PCD : 58mm
2PCS sealed cartridge bearings
Finish : anodized black
Weight : 137 grms
CENTER LOCK



FDH-20RSB-142

Spoke hole : 14G/32H
Axle : ID12*142mm AL7075-T6
Flange PCD : disc 58mm/ drive 64mm
4PCS sealed cartridge bearings
Finish : anodized black
Weight : 315 grms
Freehub body : 6 pawls*102T ratchet, AL7075,
compatible with Shimano 11 sp
Converter caps available : ID12*135mm
ID5.2*135mm

Option :
FDH-20RXB-142 ID12*142mm,
compatible with Sram XD

FDH-20RMSB-142 ID12*142mm
compatible with Shimano
micro spline



FDH-21RSB-142

Spoke hole : 14G/32H
Axle : ID12*142mm AL7075-T6
Flange PCD : disc 58mm/ drive 64mm
4PCS sealed cartridge bearings
Finish : anodized black
Weight : 315 grms
Freehub body : 6 pawls*102T ratchet, AL7075,
compatible with Shimano 11 sp
Converter caps available : ID12*135mm
ID5.2*135mm

CENTER LOCK

Option :
FDH-21RXB-142 ID12*142mm,
compatible with Sram XD

FDH-21RMSB-142 ID12*142mm
compatible with Shimano
micro spline



FDH-24RSB-142

Spoke hole : 14G/32H
Axle : ID12*142mm AL7075-T6
Flange PCD : 58mm
4PCS sealed cartridge bearings
Finish : anodized black
Weight : 306 grms
Freehub body : 4 pawls/4 springs, AL7075,
compatible with Shimano 11 sp
Converter caps available : ID12*135mm
ID5.2*135mm

Option :
FDH-24RXB-142 ID12*142mm,
compatible with Sram XD 11sp

FDH-24RMSB-142 ID12*142mm,
compatible with Shimano
micro spline



◀ Sram XD compatible
6 pawls/102T ratchet
freehub

ROAD HUBS

FRH-50FB

Spoke hole: 14G/24H
Axle: (ID5.2) 9*100 MM AL7075-T6
Flange PCD: 32 MM
2 PCS sealed cartridge bearings
Finish: anodized black
Quick release included
Weight: 83 grms



FRH-50RB

Spoke hole: 14G/24H
Axle: (ID5.2) 10*130 MM AL7075-T6
Flange PCD: L side - 40 MM, cassette side - 51 MM
4 PCS sealed cartridge bearings
Finish: anodized black
Quick release included
Weight: 251 grms
Freehub body: 6 pawls, AL7075 11SP, Shimano compatible



Option: FRH-50RCB with freehub Campy 11sp compatible

FRH-51FB

Spoke hole: 14G/24H
Axle: (ID5.2) 9*100 MM AL7075-T6
Flange PCD: 32 MM
2 PCS sealed cartridge bearings
Finish: anodized black
Quick release included
Weight: 79 grms



FRH-51RB

Spoke hole: 14G/24H
Axle: (ID5.2) 10*130 MM AL7075-T6
Flange PCD: L side - 44 MM, cassette side - 57 MM
4 PCS sealed cartridge bearings
Finish: anodized black
Quick release included
Weight: 242 grms
Freehub body: 3 pawls, AL7075 11SP, Shimano compatible



Option: FRH-51RCB with freehub Campy 11sp compatible

Quick STOP DISC PADS

All Weather Formulation

FDP-03A



QUAD QMD-5/
CLARKS CMD-5

FDP-04



QUAD QMD-6
/ HAYES MX2

FDP-06



Magura Gustav

FDP-07



Magura Louise
/ Clara 2000

FDP-07A



Magura Louise/FR

FDP-08



Magura Clara 2001

FDP-09



Magura Marta

FDP-10



Magura Julie

FDP-11



Shimano XTR BR-M965

FDP-12



Shimano Deore XT
/ Grimeca 8/Sram

FDP-13



Shimano Deore Hydraulic
BR-M555

FDP-14



Shimano Deore mechanical
w spring/ Tektro orion,
auriga pro, Draco,
auriga e comp, aquila

FDP-15



Promax/Hayes Hydraulic &
Mechanical

FDP-17



Formula B4

FDP-23



Tektro IO

FDP-26



Hope 2 piston

FDP-27



HAYES 'STROKER' Ryde

FDP-28



Promax DSK-200/ 320
/ 400/ 601J/ NINE

FDP-29



Hope M4 (2 pcs)

FDP-30



Hope Mini

FDP-31



Hope XC 4 piston

FDP-32



QUAD QHD-SP, axis, dime,
tork, nano / Hayes SOLE

FDP-33



Formula ORO,
& PURO

FDP-34



HAYES EL CAMINO

FDP-35



AVID JUICY range

FDP-37



Tektro volans, auriga sub,
auriga twin, auriga e sub

FDP-38



DIATECH /ARMOR

FDP-40



AVID Ball Bearing 5,
Promax DSK710

Quick STOP DISC PADS

All Weather Formulation



FDP-41



Hope Mono mini

FDP-42



Hope Mono 65

FDP-44



AVID Code

FDP-45



ZOOM, APSE ETC

FDP-46



HAYES Stroker TRAIL

FDP-47



HOPE moto V2, tech V2

FDP-48



HOPE MONO Trail

FDP-49



Formula 'The ONE', R1, RX

FDP-50



AVID ELIXIR range

FDP-51



Shimano New Saint

FDP-52



HAYES 'STROKER' ACE

FDP-53



Shimano XTR 2011

FDP-54



HOPE X2 /tech X2, race

FDP-55



Tektro IOX/ Lyra

FDP-56



AVID Code R

FDP-57



Hayes prime

FDP-58



Magura 2011 MT2/MT4 /MT6/MT8

FDP-59



Magura MT5/MT7 (4pcs)

FDP-60



AVID XO TRAIL

FDP-61



Avid RED 22/S-700

FDP-62



HOPE V4

FDP-63



Tektro Dorado e-bike

FDP-64



Shimano road RS505 / RS805

FDP-65



Formula Cura 4

FDP-66



Magura MT5

FDP-67



SRAM DB5 / LEVEL LEVEL T&TL AVID DB1/DB3

FDP-68



Hayes Dominion A4

Quick STOP BLOCKS

All Weather Formulation

V type

FBB-09



BLACK
LENGTH: 65MM

FBB-15



INSERT PADS - RED
LENGTH: 72MM

FBB-15A



INSERT PADS - RED
LENGTH: 72MM

FBB-16



INSERT PADS - BLACK
LENGTH: 72MM

FBB-16A



INSERT PADS - BLACK
LENGTH: 72MM

FBB-17



INSERT PADS - YELLOW
LENGTH: 72MM

FBB-17A



INSERT PADS - YELLOW
LENGTH: 72MM

FBB-18



INSERT PADS - GREEN
LENGTH: 72MM

FBB-18A



INSERT PADS - GREEN
LENGTH: 72MM

FBB-20



BLACK
LENGTH: 70MM

FBB-20R/B



RED/BLACK
LENGTH: 70MM

FBB-20Y/B



YELLOW/BLACK
LENGTH: 70MM

FBB-21



RED
LENGTH: 70MM

FBB-22



GREEN
LENGTH: 70MM

FBB-23



CARTRIDGE TYPE
BLACK PAD WITH EXTRA RED
INSERTS
LENGTH: 72MM

FBB-23A



CARTRIDGE TYPE
BLACK PAD WITH EXTRA RED
INSERTS
LENGTH: 72MM

FBB-29



BLACK
LENGTH: 59MM

FBB-31



BLACK
LENGTH: 72MM

FBB-42R/B



RED/BLACK
LENGTH: 72MM

FBB-42RGB



RED/ GREY/ BLACK
LENGTH: 72MM

FBB-44GOB



CARTRIDGE TYPE
GREY/ ORANGE/ BLACK
LENGTH: 72MM

FBB-46R/B



INSERT PADS - RED/ BLACK
LENGTH: 72MM

FBB-47



INSERT PADS - GREY
LENGTH: 72MM

FBB-47GOB



INSERT PADS -
GREY/ ORANGE/ BLACK
LENGTH: 72MM

FBB-51



BROWN / BLACK / GREEN
LENGTH: 72MM

FBB-53BG



CNC CARTRIDGE
BLACK/ GOLD FINISH
BLACK PADS
LENGTH: 72MM

FBB-53BLB



CNC CARTRIDGE
WHITE/ GOLD FINISH
BLACK PADS
LENGTH: 72MM

FBB-53WG



CNC CARTRIDGE
WHITE/ GOLD FINISH
BLACK PADS
LENGTH: 72MM

FBB-53PBL



CNC CARTRIDGE
PINK/ BLUE FINISH
BLACK PADS
LENGTH: 72MM



Quick STOP BLOCKS

All Weather Formulation

ROAD

FBB-04C



INSERT PADS FOR CARBON RIMS
COMPATIBLE - SHIMANO DURA ACE
LENGTH: 55MM

FBB-04



INSERT PADS - BLACK
COMPATIBLE - SHIMANO DURA ACE
LENGTH: 55MM

FBB-05



INSERT PADS - GREEN
COMPATIBLE - SHIMANO DURA ACE
LENGTH: 55MM

FBB-06



INSERT PADS - RED
COMPATIBLE - SHIMANO DURA ACE
LENGTH: 55MM

FBB-07



CARTRIDGE TYPE
BLACK PAD WITH EXTRA INSERTS
COMPATIBLE - SHIMANO DURA ACE
LENGTH: 55MM

FBB-07C



CARBON LOOK CARTRIDGE
FOR CARBON RIMS WITH EXTRA INSERTS
COMPATIBLE - SHIMANO DURA ACE
LENGTH: 55MM

FBB-12



ALPINE U BRAKE
BLACK
LENGTH: 53MM

FBB-12A



ALPINE U BRAKE
BLACK WITH ALLEN SCREWS
LENGTH: 53MM

FBB-13



CARTRIDGE TYPE
BLACK
COMPATIBLE - SHIMANO DURA ACE
LENGTH: 55MM

FBB-13C



CARBON LOOK CARTRIDGE
FOR CARBON RIMS
COMPATIBLE - SHIMANO DURA ACE
LENGTH: 55MM

FBB-27



BLACK
COMPATIBLE - SHIMANO SYSTEMS
LENGTH: 50MM

FBB-37



INSERT PADS - BLACK
COMPATIBLE - CAMPAGNOLO RECORD
LENGTH: 55MM

FBB-38



INSERT PADS - GREEN
COMPATIBLE - CAMPAGNOLO RECORD
LENGTH: 55MM

FBB-39



INSERT PADS - RED
COMPATIBLE - CAMPAGNOLO RECORD
LENGTH: 55MM

FBB-40



INSERT PADS - BLACK
COMPATIBLE - CAMPAGNOLO 2000
LENGTH: 50MM

FBB-41



INSERT PADS - GREEN
COMPATIBLE - CAMPAGNOLO 2000
LENGTH: 50MM

FBB-48B



ANGLE ADJUSTABLE CARTRIDGE - BLACK
3 TONE COLOR PADS
COMPATIBLE - SHIMANO DURA ACE
LENGTH: 50MM

FBB-48BL



ANGLE ADJUSTABLE CARTRIDGE - BLUE
3 TONE COLOR PADS
COMPATIBLE - SHIMANO DURA ACE
LENGTH: 50MM

Quick STOP BLOCKS

All Weather Formulation

ROAD

FBB-48G



ANGLE ADJUSTABLE CARTRIDGE - GOLD
3 TONE COLOR PADS
COMPATIBLE - SHIMANO DURA ACE
LENGTH: 59MM

FBB-48GN



ANGLE ADJUSTABLE CARTRIDGE - GREEN
3 TONE COLOR PADS
COMPATIBLE - SHIMANO DURA ACE
LENGTH: 59MM

FBB-48R



ANGLE ADJUSTABLE CARTRIDGE - RED
3 TONE COLOR PADS
COMPATIBLE - SHIMANO DURA ACE
LENGTH: 59MM

FBB-48S



ANGLE ADJUSTABLE CARTRIDGE - SILVER
3 TONE COLOR PADS
COMPATIBLE - SHIMANO DURA ACE
LENGTH: 59MM

FBB-49B



CARTRIDGE TYPE - BLACK
3 TONE COLOR PADS
COMPATIBLE - SHIMANO DURA ACE
LENGTH: 59MM

FBB-49BL



CARTRIDGE TYPE - BLUE
3 TONE COLOR PADS
COMPATIBLE - SHIMANO DURA ACE
LENGTH: 59MM

FBB-49G



CARTRIDGE TYPE - GOLD
3 TONE COLOR PADS
COMPATIBLE - SHIMANO DURA ACE
LENGTH: 59MM

FBB-49GN



CARTRIDGE TYPE - GREEN
3 TONE COLOR PADS
COMPATIBLE - SHIMANO DURA ACE
LENGTH: 59MM

FBB-49R



CARTRIDGE TYPE - RED
3 TONE COLOR PADS
COMPATIBLE - SHIMANO DURA ACE
LENGTH: 59MM

FBB-49S



CARTRIDGE TYPE - SILVER
3 TONE COLOR PADS
COMPATIBLE - SHIMANO DURA ACE
LENGTH: 59MM

FBB-50



INSERT PADS - 3 TONE COLORS
COMPATIBLE - SHIMANO DURA ACE
LENGTH: 59MM

FBB-52BG



CNC ANGLE ADJUSTABLE CARTRIDGE
BLACK/GOLD FINISH
BLACK PADS
COMPATIBLE - SHIMANO DURA ACE
LENGTH: 59MM

FBB-52BBL



CNC ANGLE ADJUSTABLE CARTRIDGE
BLACK/BLUE FINISH
BLACK PADS
COMPATIBLE - SHIMANO DURA ACE
LENGTH: 59MM

FBB-52PBL



CNC ANGLE ADJUSTABLE CARTRIDGE
PINK/BLUE FINISH
BLACK PADS
COMPATIBLE - SHIMANO DURA ACE
LENGTH: 59MM

FBB-52WG



CNC ANGLE ADJUSTABLE CARTRIDGE
WHITE/GOLD FINISH
BLACK PADS
COMPATIBLE - SHIMANO DURA ACE
LENGTH: 59MM

Quick STOP BLOCKS

All Weather Formulation

CANTILEVER

FBB-02



BLACK
LENGTH: 65MM

FBB-03



RED
LENGTH: 65MM

FBB-19



BLACK
LENGTH: 50MM

FBB-24



BLACK
LENGTH: 70MM

FBB-25



RED
LENGTH: 70MM

FBB-26



CARTRIDGE TYPE
BLACK PAD WITH EXTRA
RED INSERTS
LENGTH: 72MM

FBB-26A



CARTRIDGE TYPE
BLACK PAD WITH EXTRA
RED INSERTS
LENGTH: 72MM

FBB-28



BLACK
LENGTH: 55MM

FBB-32



BLACK
LENGTH: 72MM

CALIPER

FBB-01



BLACK
LENGTH: 40MM

FBB-08



BLACK
LENGTH: 35MM

FBB-10



BLACK
LENGTH: 45MM

FBB-11



BLACK
LENGTH: 40 MM

BMX

FBB-30



BLACK
LENGTH: 40MM

FBB-36



BLACK
LENGTH: 69MM

HYDRAULIC RIM BRAKE

FBB-35

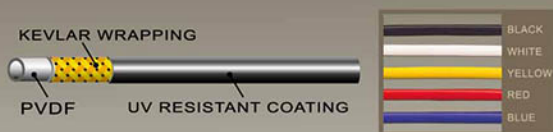


BLACK
COMPATIBLE -
MAGURA-HYDRAULIC RIM BRAKE
LENGTH: 50MM

HYDRAULIC HOSE AND FITTINGS

RESPONSE HYDRAULIC HOSE

- PVDF inner core offers friction free transmission of brake fluid and resists to high temperature and chemical of DOT and mineral oil.
- Dupont Kevlar weave wrapping to prevent hose expansion and pressure loss.
- UV resistant coating for durability.
- Hose size: ID2.3mm x OD 5.0mm



30 meters dispenser
box packing



3.3 meters display
box packing

RESPONSE HOSE FITTINGS

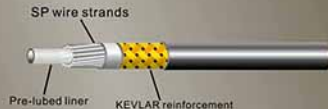
- Made from high quality corrosion resistant materials.
- Easy installation for all brake systems.
- Compatible with ID2.3mm x OD 5.0mm hydraulic hose.
- Individually packed for each specific brake system in the market.



FHSK-SH01	Shimano XTR2005-2006
FHSK-SH02	Shimano : DEOREXT2005-2007, XTR2011-2012, SAINT, SLX2012
FHSK-SH03	Shimano : XTR2007-2010, DEOREXT2008-2011, DEORELX2005-2011, SLX2009-2011, DEORE2005-2012
FHSK-AV01	Avid : JUICY5/7, ULTIMATE Bengal : HELIX4X, HELIX5L, HELIX7B
FHSK-AV02	Avid : CODE, CODES, CODER, ELIXIR1/3, JUICY3/3.5, XX2011 Bengal : HELIX2.5, HELIX5, HELIX6, HELIX7, HELIX7L, HELIX7.5
FHSK-AV03	Avid : ELIXIR, ELIXIRCR, ELIXIR5/7/9, XO
FHSK-HY01	Hayes : STROKER TRAIL, STROKER CARBON, STROKERACE, STROKERGRAM, EL CAMINO, PRIME PRO, PRIME EXPERT Bengal : HELIX1.0/1.1, HELIX3SL, HELIX3CARBON
FHSK-HY02	Hayes : STROKER RYDE, STROKER DYNO
FHSK-HY03	Bengal : HELIX2.1/2.3, HELIX3* Hayes : NINE
FHSK-MG01	Magura : LOUISFR, MT4/6/8
FHSK-MG02	Magura : LOUIS, MARTAS, MARTA, MT2
FHSK-TK01	Tektro : AURIGAPRO2009-2010, AURIGACOMP, AURIGACOMPWS, DRACO
FHSK-TK02	Tektro : ORION AURIGAPRO2011, VOLANS, AURIGASUB

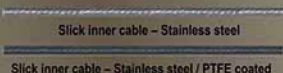
SLICK LINES premium cable kits

CABLE PRODUCTS



OUTER HOUSING

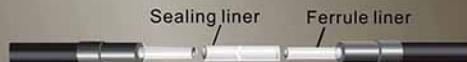
- **Kevlar Reinforced SP housing** –
Eliminates compression for increased efficiency
SP5 for brake cables ; SP4 for gear cables
- **Pre-lubed liner** –
Minimizes surface friction for best feel



INNER CABLE

- **SLICK processed** –
Pre-stretched core for best efficiency
Smoothened surface to reduce friction
- **Stainless steel** –
Remains corrosion free
- **Optional PTFE coated cable** –
Helps reduce surface friction to a minimum

SOLID COLORS		
KC-1		BLACK
KC-2		WHITE
KC-3		RED
KC-4		BLUE
KC-5		LIGHT GREEN
KC-6		YELLOW
BRAIDED COLORS		
KC-7		BLACK
KC-8		CARBON GREY
KC-9		SILVER
KC-10		GOLD
KC-11		RED
KC-12		LIGHT BLUE
KC-13		PINK



Ferrules & Sealing liner

- **Weatherproof alloy ferrules** –
With extended liner for better weatherproofing
- **Pre-lubed sealing liner** –
Perfectly fits over the extended ferrule liner
for added weatherproofing

Universal brake cable kit includes:

3.0M pre-lubed Kevlar reinforced SP5 housing
2 pcs 1.5*1600mm slick stainless steel cables
8 pcs weatherproof alloy ferrules
6 pcs clear frame protection donuts
2 pcs end covers
1.2M weatherproof sealing liner

Universal gear cable kit includes:

2.5M pre-lubed Kevlar reinforced SP4 housing
2 pcs 1.2*2100mm slick stainless steel cables
8 pcs weatherproof alloy ferrules
6 pcs clear frame protection donuts
2 pcs end covers
1.2M weatherproof sealing liner

DISPENSOR BOX PACKING INDIVIDUAL HANG CARD PACKING

BRAKE CABLES

FULL CABLE RANGE

GALVANISED INNER WIRES – Dispensor boxed

- FCP-04DB Barrel nipple brake inner wires 1.5 x 2000mm, dispenser box of 100
FCP-05DB Pear nipple brake inner wires 1.5 x 2000mm, dispenser box of 100
FCP-07DB Universal Derailleur inner wires 1.2 x 2030mm, dispenser box of 100

OUTER HOUSINGS – Dispensor boxed

- FCP-08DB 5mm Lined 2P type outer housing, dispenser box of 30 meters — black color
FCP-09DB 4mm Lined SP gear outer housing, dispenser box of 30 meters — black color
FCP-08DB-C 5mm Lined 2P type outer housing, dispenser box of 30 meters — RED, WHITE, GREEN, BLUE or YELLOW
FCP-09DB-C 4mm Index SP gear outer housing, dispenser box of 30 meters — RED, WHITE, GREEN, BLUE or YELLOW

PTFE COATED INNER WIRES – Dispensor boxed

- FCP-13DB Single Barrel nipple ended brake inner wires 1.5 x 1800mm, dispenser box of 100
FCP-15DB Universal Derailleur inner wire 1.2 x 2275mm, dispenser box of 100

STAINLESS STEEL INNER WIRES – Dispensor boxed

- FCP-17DB Single barrel nipple ended brake inner wires 1.5 x 1800mm + dispenser box of 100
FCP-19DB Brake wire c/w Campagnolo Pear 1.5 x 1820mm, dispenser box of 100
FCP-22DB Universal Derailleur inner wire 1.2 x 2275mm, dispenser box of 100

PRE - lubed Kevlar reinforced SP outer casing - Dispensor boxed

- FCP-27DB Pre-lubed Kevlar reinforced SP5 outer casing, black, dispenser box of 30 mtrs
FCP-27DB-C Pre-lubed Kevlar reinforced SP5 outer casing, RED, WHITE, LIGHT GREEN, BLUE or YELLOW, dispenser box of 30 mtrs
FCP-27DB-B Pre-lubed Kevlar reinforced SP5 outer casing, braided black, carbon grey, silver, gold, red, light blue, pink, dispenser box of 30 mtrs
FCP-28DB Pre-lubed Kevlar reinforced SP4 outer casing, black, dispenser box of 30 mtrs
FCP-28DB-C Pre-lubed Kevlar reinforced SP4 outer casing, RED, WHITE, LIGHT GREEN, BLUE or YELLOW, dispenser box of 30 mtrs
FCP-28DB-BR Pre-lubed Kevlar reinforced SP4 outer casing, braided black, carbon grey, silver, gold, red, light blue, pink, dispenser box of 30 mtrs

COMPLETE SETS GALVANISED – Hang card

- FCP-01F Universal front brake, 2P outer 5mm x 610mm / inner wire 1.5mm x 915mm
FCP-02R Universal rear brake, 2P outer 5mm x 1400mm / inner wire 1.5mm x 1800mm

COMPLETE SETS PTFE COATED – Hang card

- FCP-10F Front brake, 2P outer 5mm x 510mm / inner wire 1.5mm x 915mm, Barrel nipple
FCP-11R Rear brake, 2P outer 5mm x 1170mm / inner wire 1.5mm x 1800mm, Barrel nipple

GALVANISED INNER WIRES – Hang card

- FCP-03 Universal brake inner wires 1.5 x 2000mm
FCP-06 Universal derailleur inner wires 1.2 x 2030mm

PTFE COATED INNER WIRES – Hang card

- FCP-12R Single Barrel nipple ended brake inner wires 1.5 x 1800mm
FCP-12R1 Universal brake inner wires 1.5 x 1800mm
FCP-12R1-3M Universal brake inner wires 1.5 x 3000mm
FCP-14 Universal Derailleur inner wire 1.2 x 2275mm
FCP-14-3M Universal Derailleur inner wire 1.2 x 3000mm
FCP-23 Single Barrel nipple ended brake inner wires 1.5 x 3050mm for Tandem
FCP-24 Front or rear derailleur inner wires 1.2 x 3050mm for Tandem

STAINLESS STEEL INNER WIRES – Hang card

- FCP-16 Universal brake inner wires 1.5 x 2000mm
FCP-18 Brake wire c/w Campagnolo Pear 1.5 x 1820mm
FCP-20 Derailleur inner wire suitable for Shimano/grip shift, 1.1 x 2275mm
FCP-21 Universal Derailleur inner wire 1.2 x 2275mm



DISPENSOR BOX PACKING



INDIVIDUAL HANG CARD PACKING



FEDERAL SPORTING GOODS MFG. CO., LTD.
8, Lane 428, Sec. 1, Fong Yuan Blvd. Fong Yuan,
Taichung, Taiwan
TEL: (886) 4 2532 2789 FAX: (886) 4 2531 0006
E mail: larry510@ms54.hinet.net
www.response-products.com

CARBON BOTTLE CAGE



- Full carbon material
- UD finish
- Weight 21g.



FEDERAL SPORTING GOODS MFG. CO., LTD.
8, Lane 428, Sec. 1, Fong Yuan Blvd, Fong Yuan, Taichung, Taiwan
TEL: (886) 4 2532 2789 FAX: (886) 4 2531 0006
E mail: larry510@ms54.hinet.net
www.response-products.com

STREAM 35 / STREAM 45 stems



STREAM 35



STREAM 45



STREAM 45G

- AL7075 aluminium alloy.
- Full CNC made.
- **STREAM 35** : 0 degree* 35mm ext. * $\Phi 31.8$ mm bore
Weight : 124g including 6 stainless steel bolts
- **STREAM 45** : 0 degree* 45mm ext. * $\Phi 31.8$ mm bore.
Weight : 150g including 6 stainless steel bolts
- **STREAM 45G** : 0 degree* 45mm ext. * $\Phi 35$ mm bore.
Weight : 150g including 6 stainless steel bolts
- Colours : Anodised black, red.



Cycle computer mounts



FM-G02



FM-G03

- **FM-G01** compatible with Garmin 200, 500, 510, 520, 800, 810, weight 23g
- **FM-G02** compatible with Garmin 200, 500, 510, 520, 800, 810, 910, 920, 1000, weight 37g.. Available with GO PRO mount FM-G02A
- **FM-G02B** compatible with Bryton models, weight 37g.. Available with GO PRO mount FM-G02A
- **FM-G02M** compatible with Mio models, weight 37g.. Available with GO PRO mount FM-G02A
- **FM-G02W** compatible with Wahoo models, weight 37g.. Available with GO PRO mount FM-G02A
- **FM-G03** compatible with Garmin 200, 500, 510, 520, 800, 810, 910, 920, weight 32g
- **FM-GC01** compatible with Cateye CC-PA100W/ 500B, CC-RD300W/310W, RD400DW/410DW/420DW/430DW/500, CC-VT210W/220W, CC-MC200W, CC-GL10/11/50/51, CC-PD100W, CC-COM10. weight 18g



FM-G01



FM-GC01

GO PRO mount adaptor

Cateye mount converter



FM-G02A

- #6061 CNC
- weight 10g
- for FM-G02



FM-G02P

- tool free
- reinforced plastic
- weight 19g
- for FM-G02



FM-CYT

- weight 3.5g
- for garmin mount



FEDERAL SPORTING GOODS MFG. CO., LTD.
8, Lane 428, Sec. 1, Fong Yuan Blvd. Fong Yuan,
Taichung, Taiwan
TEL: (886) 4 2532 2789 FAX: (886) 4 2531 0006
E mail: larry510@ms54.hinet.net
www.response-products.com

CYCLE COMPUTER MOUNTS



FM-G06



FM-G06+ FM-CAD03



FM-G06+ FM-CAD04



FM-CAD03



FM-CAD04



FM-16



FM-17

Angle +5°/-10° adjustable

- FM-G06 Compatible with Garmin 200, 500, 510, 520, 800, 810, 910, 920, 1000, 1030 weight 43g
Option : FM-G06W for Wahoo models FM-G06B for Bryton models
- FM-CAD03 Go Pro mount fits on bottom side of FM-G06 series weight 14.4g
FM-G06 + FM-CAD03 Go Pro can fit on bottom side of FM-G06, FM-G06W, FM-G06B
- FM-CAD04 Go Pro mount with male fitting, fits on top side of FM-G06 Garmin mount weight 14.4g
FM-G06 + FM-CAD04 Go Pro can fit on top side of FM-G06
- FM-16 6061 alloy, full CNC weight 35g
Option : FM-16W for Wahoo models FM-16B for Bryton models
- FM-17 6061 alloy, full CNC, angle +5°/-10° adjustable weight 43g
Option : FM-17W for Wahoo models FM-17B for Bryton models
- FM-G03P Go Pro mount fits on bottom side of FM-G02, FM-16, FM-17
Reinforced plastic, weight 7.8g



FM-G03P

Go Pro mount

Cycle computer mounts on head tube 2 in 1



FM-12

Full CNC alloy
Anodized color
Weight: 21g

+



=



FM-11

Full CNC alloy
Anodized color
Weight: 38g



Assembled with computer



Assembled on top of head tube



FM-12



Assembled with Go Pro camera



Assembled on top of head tube

BOTTOM BRACKETS



FBM-BSA2929RB

BSA 29/29 (compatible with DUB crank)

- Forged and CNC machined alloy cups
- Sealed cartridge bearings
- BC 1.37", for 68 & 73mm width
- Ø29mm spindle OD
- Anodised color
- Weight : 98g

Option FBM-BSA2929CB ceramic bearings



FBM-BSA3030RB

BSA 30/30

- Forged and CNC machined alloy cups
- Sealed cartridge bearings
- BC 1.37", for 68 & 73mm width
- Ø30mm spindle OD
- Anodised color
- Weight : 96g

Option FBM-BSA3030CB ceramic bearings



FBM-BSA2424RB

BSA 24/24

- Forged and CNC machined alloy cups
- Plastic sleeve
- Sealed cartridge bearings
- BC 1.37" x 24T for 68 & 73mm width
- Ø24mm spindle OD
- Anodised color
- Weight : 106g

Option FBM-BSA2424CB ceramic bearings



FBM-GXP2422RB

GXP 24/22

- Forged and CNC machined alloy cups
- Plastic sleeve
- Sealed cartridge bearings
- BC 1.37", for 68 & 73mm width
- Ø22mm left spindle OD, Ø24mm right spindle OD
- Anodised color
- Weight : 110g

Option FBM-GXP2422CB ceramic bearings



FBM-PFBB30RB-24/42

PF BB30/24 internal thread type

- CNC machined alloy cups
- For BB shell ID 42mm, width 68-73mm
- Internal thread type
- Sealed cartridge bearings
- Ø24mm spindle OD
- Anodised color
- Weight : 130g

Option FBM-PFBB30CB-24/42 ceramic bearings



FBM-PFBB30RB-2422/42

PF BB30/24 internal thread type

- CNC machined alloy cups
- For BB shell ID 42mm, width 68-73mm
- Internal thread type
- Sealed cartridge bearings
- Ø24/22mm spindle OD
- Anodised color
- Weight : 133g

Option FBM-PFBB30CB-2422/42 ceramic bearings



FBM-PF8692RB-24/41

PF 86/92 internal thread type

- CNC machined alloy cups
- For BB shell ID 41mm, width 86-92mm
- Internal thread type
- Sealed cartridge bearings
- Ø24mm spindle OD
- Anodised color
- Weight : 98g

Option FBM-PF8692CB-24/41 ceramic bearings



FBM-PF8692RB-2422/41

PF 86/92 internal thread type

- CNC machined alloy cups
- For BB shell ID 41mm, width 86-92mm
- Internal thread type
- Sealed cartridge bearings
- Ø24/22mm spindle OD
- Anodised color
- Weight : 101g

Option FBM-PF8692CB-2422/41 ceramic bearings

BOTTOM BRACKETS



FBM-PFBB386RB-29/46

PF BB386 -29/29 internal thread type

- CNC machined alloy cups
- For BB shell ID 46mm, width 86-92mm
- Internal thread type
- Sealed cartridge bearings
- Ø29mm spindle OD
- Anodised color
- Weight : 142g

Option FBM-PFBB386CB-29/46 ceramic bearings



FBM-PFBB386RB-30/46

PF BB386 -30/30 internal thread type

- CNC machined alloy cups
- For BB shell ID 46mm, width 86-92mm
- Internal thread type
- Sealed cartridge bearings
- Ø30mm spindle OD
- Anodised color
- Weight : 138g

Option FBM-PFBB386CB-30/46 ceramic bearings



FBM-PFBB386RB-24/46

PF BB386 -24/24 internal thread type

- CNC machined alloy cups
- For BB shell ID 46mm, width 86-92mm
- Internal thread type
- Sealed cartridge bearings
- Ø24mm spindle OD
- Anodised color
- Weight : 142g

Option FBM-PFBB386CB-24/46 ceramic bearings



FBM-PFBB386RB-2422/46

PF BB386 -24/24 internal thread type

- CNC machined alloy cups
- For BB shell ID 46mm, width 86-92mm
- Internal thread type
- Sealed cartridge bearings
- Ø24/22mm spindle OD
- Anodised color
- Weight : 146g

Option FBM-PFBB386CB-2422/46 ceramic bearings



FBM-PF30RB-24/46

PF 30/24 internal thread type

- CNC machined alloy cups
- For BB shell ID 46mm, width 68-73mm
- Internal thread type
- Sealed cartridge bearings
- Ø24mm spindle OD
- Anodised color
- Weight : 131g

Option FBM-PF30CB-24/46 ceramic bearings



FBM-PF30RB-2422/46

PF 30/24 -24/22 internal thread type

- CNC machined alloy cups
- For BB shell ID 46mm, width 68-73mm
- Internal thread type
- Sealed cartridge bearings
- Ø24/22mm spindle OD
- Anodised color
- Weight : 135g

Option FBM-PF30CB-2422/46 ceramic bearings



FBM-PF30RB-29/46

PF 30 -29/29 internal thread type

- CNC machined alloy cups
- For BB shell ID 46mm, width 68-73mm
- Internal thread type
- Sealed cartridge bearings
- Ø29mm spindle OD
- Anodised color
- Weight : 127g

Option FBM-PF30CB-29/46 ceramic bearings



FBM-PF30RB-30/46

PF 30 -30/30 internal thread type

- CNC machined alloy cups
- For BB shell ID 46mm, width 68-73mm
- Internal thread type
- Sealed cartridge bearings
- Ø30mm spindle OD
- Anodised color
- Weight : 123g

Option FBM-PF30CB-30/46 ceramic bearings

BOTTOM BRACKETS



FBM-PF8692RB-29/41

PF 86/92 -29/29 internal thread type

- CNC machined alloy cups
- For BB shell ID 41mm, width 86-92mm
- Internal thread type
- Sealed cartridge bearings
- Ø29mm spindle OD
- Anodised color
- Weight : 110g

Option FBM-8692CB-29/41 ceramic bearings



FBM-PF8692RB-30/41

PF 86/92 -30/30 internal thread type

- CNC machined alloy cups
- For BB shell ID 41mm, width 86-92mm
- Internal thread type
- Sealed cartridge bearings
- Ø29mm spindle OD
- Anodised color
- Weight : 106g

Option FBM-8692CB-30/41 ceramic bearings



FBM-BSA2424RB-ITA

BSA 24/24 - ITA

- Forged and CNC machined alloy cups
- Plastic sleeve
- Sealed cartridge bearings
- ITA for 68 & 73mm width
- Ø24mm spindle OD
- Anodised color
- Weight : 113g

Option FBM-BSA2424CB-ITA ceramic bearings



FBM-PF24/41RB

PF 24/41 push fit type

- Forged and CNC machined alloy cups
- Plastic sleeve
- For BB shell ID 41mm, width 86-92mm
- Sealed cartridge bearings
- Ø24mm spindle OD
- Anodised color
- Weight : 86g

Option FBM-PF24/41CB ceramic bearings



FBM-PF2422/41RB

PF 24 -22/41 push fit type

- Forged and CNC machined alloy cups
- Plastic sleeve
- For BB shell ID 41mm, width 86-92mm
- Sealed cartridge bearings
- Ø22/24mm spindle OD
- Anodised color
- Weight : 90g

Option FBM-PF2422/41CB ceramic bearings



FBM-T47RB-68

T47 internal thread type

- Forged and CNC machined alloy cups
- Plastic sleeve
- For T47 thread BB shell, width 68-73mm
- Sealed cartridge bearings
- Ø30mm spindle OD
- Anodised color
- Weight : 90g

Option FBM-T47CB-68 ceramic bearings

Available FBM-T47RB-86 width 86-92mm

HEADSETS



FHS-32001S

Semi integrated threadless headset
ZS44/28.6-ZS55/40
1 1/8"-1.5", 45°x 45° ACB bearing



FHS-32001F

Fully integrated threadless headset
IS42/28.6-IS52/40
(also available IS42/28.6-IS52/30)
1 1/8"-1.5", 45°x 45° ACB bearing



FHS-21012N-50

Stainless bolt w/alloy cap
For 1 1/8" steer tube
50mm long
(also available 30mm and 70mm long)
Options: 3K carbon cap and UD carbon cap)



FHS-31T

Standard threadless headset
EC34/28.6-EC34/30
1 1/8", 45°x 45° ACB bearing



FHS-33T

Threaded headset
EC32/25.4-EC32/26.4
1", ACB bearing



Carbon spacer

UD or 3K
Available 3mm, 5mm, 10mm



Alloy spacer

Available 3mm, 5mm, 10mm

Silicone grips

- Closed and cross-link cell structure
- Excellent vibration damping
- Water proof, fast drying
- Good weather resistance
- 31mm diameter when installed
- non lock ring: 128mm long, 6mm thick
weight: 78g/pair including end plugs
- lock ring: 130mm long, 6mm thick
weight: 126g/pair including end plugs
- Colors: black, white, red, yellow, orange,
neon green, dark blue, light blue



Anti Slip Paste

For carbon & aluminium components
Special micro particles work to create increased friction



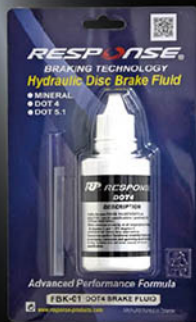
- Reduce required fastening torque up to 30%
- Protect from corrosion
- Helps eliminate creaking noises
- Available 5ml/Aluminium foil pack and 70ml/plastic jar

BLEED KIT BRAKE FLUID



FBK-05

Dual syringe bleed kit includes:
Syringe x 2pcs
Tube x 3pcs
Tube clamp x 2pcs
M5 adaptor x 2pcs
M6 adaptor x 1pc
Plastic box



FBK-01

DOT 4 brake fluid 100ml



FBK-06

Mineral brake fluid 100ml

BRAKE ACCESSORIES



FBP-100

CABLE O RING 200 SETS



FBP-101

CRIMP FIT FERRULES FOR
BRAKE OUTER CASING 200PCS



FBP-102

GEAR O RING 200 SETS



FBP-103

WIRE END COVER 500PCS



FBP-10

90 degree guide pipe & gaitor



FBP-104

PLASTIC PUSH FIT FERRULES FOR
BRAKE OUTER CASING 120PCS



FBP-105

PLASTIC PUSH FIT FERRULES FOR
GEAR SP4 OUTER CASING 120PCS



FBP-106

SEALED PRE-LUBED ALLOY FERRULES
FOR BRAKE OUTER CASING 50PCS



FBP-107

SEALED PRE-LUBED ALLOY FERRULES
FOR GEAR SP4 OUTER CASING 50PCS



FBP-11

135 degree guide pipe & gaitor

ADAPTOR BRACKETS



FAB-01
For F/160 or R/140



FAB-02
For F/180 or R/160



FAB-03
For F/203 or R/180



FAB-04
For R/203



ADAPTOR BRACKETS



FAB-05
For DH F/203



FAB-06
For Post mount F/203



FAB-07
For Post mount F/160 to 180

