Intern

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MOUNTAINBIKE COMPONENTS SYSTEMS

Great performance and great

When you're flying down a back woods trail you can't afford to worry about how your bike's going to respond. We design our mountain bike components so they do what you want them to - instantly. Shimano components create a more efficient bicycle-to-rider interface that demands less of your energy. We do it through low-effort and precise shifting systems and through V-BRAKEs and disc brakes that deliver superior power and modulation. By using components that work for you, you can focus more on the task at hand — riding your bicycle. DEORE XT has been completely redesigned and remastered following on the technology and

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fun on or off the road

options concept of XTR. The new SHIMANO SHADOW RD is designed for more aggressive riding. Together with double-servo-panta mechanism derailleurs, you have the right choice for your riding style. The new XT disc brake features high power braking with servo-wave brake levers and a beefed up caliper. FC-M582/ HOLLOWTECH II crankset with steel spindle saves 20g from FC-M580 previous model. SL-M530 RAPIDFIRE Plus shifter, RD-M531-SGS Top Normal rear derailleur and FC-M532/ M533-K 2-piece construction cranksets are added to the DEORE series. Shimano MTB components support a wider range of riding styles for riders' fun.

| Wide Link |
|------------------------------|
| SIS-SP41 |
| HG / Hyperdrive |
| Shimano Shadow RD |
| Double Servo-Panta Mechanism |
| Top Normal Shifting System |
| |

| Low Normal Shifting System |
|----------------------------|
| Optical Gear Display |
| TOP SWING Front Derailleur |
| DUAL SIS |
| Advanced Light Action |
| SERVO WAVE Action |
| |

| Free Stroke Adjustment | 3 |
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THE WAY YOU RIDE



SHIMANO SHADOW AD

Engineered for the way you ride

As Mountain bikes continue to become more diverse, obviously components must evolve. New Shimano Deore XT addresses the various needs of today's riders. The new rear derailleur "Shimano Shadow RD", was specially designed for more aggressive all mountain riding. Together with double servo-panta mechanism derailleurs, you have the right choice for your riding style. The new XT disc brake with Servo-Wave, features high power braking and superior modulation. Featuring new technologies and plenty of options like XTR, the all new Deore XT is truly engineered for the way you ride.

Classification of MTB riding styles

When we at Shimano develop MTB components, we take into consideration such factors as strength, durability, compatibility and cost-performance based on the classification of MTB riding styles. HONE, for instance, is developed as "All Mountain" and "Cross Country" component. So its strength and durability are quite different from those of SAINT although they have common features such as hub axle mount type rear derailleurs. Therefore, every component of HONE cannot be used as a replacement of SAINT component or as a component for "Freeride". We sincerely ask our dealers to strongly recommend that users should make intended use clear and use products appropriate to it.

Product combination is also important.

Product combination as well as product category is very important for safe and comfortable riding. We at Shimano design every product giving careful consideration to the dynamics of related products to achieve a high level of performance. So, you may not get satisfactory performance out of the combination with the products of different categories even if they are all Shimano products.

A WARNING

Don't use a bike equipped with casual MTB / CTB components on aggressive off-road trail.

ALIVIO, ACERA and ALTUS components are not developed for the serious MTB riding, while making a clear distinction with the high-end MTB components such as DEORE and SAINT groups in terms of purpose of use. For instance, the use of a bike equipped with ALIVIO or ACERA components for aggressive riding may cause damage and possible injury. Also, TOURNEY components are the MTB-look product group for casual city riding on paved roads. We will appreciate that you understand the product level and intended use of each component group and please give guidance to users on safe riding.

| MTB | Riding style | | | | | |
|-------------------------|--------------|--|--|--|--|--|
| Cross Country Racing | Trail | | | | | |
| hacing | Bike style | | | | | |
| МТВ | Riding style | | | | | |
| Cross Country | Trail | | | | | |
| | Bike style | | | | | |
| МТВ | Riding style | | | | | |
| All Mountain | Trail | | | | | |
| | Bike style | | | | | |
| МТВ | Riding style | | | | | |
| Freeride | Trail | | | | | |
| Downhill | Bike style | | | | | |
| МТВ | Riding style | | | | | |
| Trekking | Trail | | | | | |
| | Bike style | | | | | |
| Casual MTB | Riding style | | | | | |
| | Trail | | | | | |
| | Bike style | | | | | |
| City Bike | Riding style | | | | | |
| | Trail | | | | | |
| | Bike style | | | | | |

| Cross country racing, marathon racing | | | | | | STORE DIANS |
|--|-----|-----|----------------|---------|----|--------------------|
| All type of terrain, minimal jumps and drops. | | | | | | |
| Most hard tails and short travel full suspension (*less than 100mm travel). | | | | | | A BEO |
| Cross country, marathon | Π | XTR | | LX | | 2 set all |
| All type of terrain, minimal jumps and drops. | | | | DEORE | | and the |
| Most hard tails and short travel full suspension (*less than 130mm travel). | | | | | ХТ | A REAL PROPERTY OF |
| Enduro, expedition | | | | | | and the second |
| All type of terrain, with small jumps and drops. |] ' | | HONE | | | ast |
| Full suspension (*less than 150mm travel). | | | | | | |
| Extreme, North Shore, dirt jump, downhill racing, street | | | | SAINT | | 8 |
| Downhill, moderate or larger jumps and drops, technical descents. | 1 | | | | | A. |
| Long travel full suspension (*more than 150mm travel, Strong frame and parts). | | | | | | St O |
| Trekking, cycling | | | | | | 7.3 |
| On-road | | | | | ХТ | 2.2 |
| Trekking bike, light | | | | | | 00-00 |
| Casual, sports riding | | | | | | |
| Smooth off-road | | | ALIVIO | | | |
| Short-travel suspension, Non-suspension | 1 | | ACERA ALTUS | | | |
| Casual, city riding | | | | | | A STOR |
| City paved road | | | | Tourney | | TT |
| MTB look-alike | | | | | | the st |



Engineered for the way you ride.

The XTR pursued the strength and durability like a fine sharpened edge of the sword while challenging the maximum lightweight again.

RD-M972-GS/SGS Shimano Shadow RD

Shimano Shadow RD /

Low profile and top normal design intended for more aggressive riding.

- Low profile and single tension construction / No hit to chain stay in rough riding conditions, results in smooth and silent performance.
- Low profile design
- Super lightweight
- Direct routing reduces the risk of snagging.
- Stronger return spring for more crisp shifting feeling
- Capacity : GS 33T, SGS 45T
- Weight : GS 180g, SGS 182g

RD-M970-GS/SGS Low Normal Rear Derailleur RD-M971-GS/SGS Top Normal Rear Derailleur

- Super Wide Link for higher rigidity
- Capacity : GS 33T, SGS 43T
- Weight: RD-M970-GS 197g, RD-M970-SGS 199g RD-M971-GS 196g, RD-M971-SGS 197g

ST-M970 Dual Control Lever for V-BRAKE

ST-M975 Dual Control Lever for Disc Brake

- Instant release for quicker shifts / A click of the upper lever releases the cable, same as it always has. The difference is now, cable is released immediately when the lever is depressed making shifting that much faster.
- Multi-release allows two-gear shifts / Now shift multiple gears in both directions using the main lever or the secondary release lever.
- Weight : ST-M975 442g

SL-M970A RAPIDFIRE Plus Shift Lever

- Instant release for quicker shifts
- Multi-release allows two-gear shifts
- 2-way release for different riding styles or shifting from various riding positions / The upper lever still performs the same function, but now it swings both ways. Pull it with your finger or push it with your thumb-you choose
- Weight : 215g

FC-M970 HOLLOWTECH II Crankset

- Titanium / carbon composite middle chainring design for improved durability
- Left crank arm fixation for easier installation and lighter weight
- Gearings : 44-32-22T, 44-32-24T
- Weight: 770g (44-32-22T, 175mm)

BL-M975 Disc Brake Lever

BL-M970 V-BRAKE Lever

- Reach adjustment for a custom lever feeling
- Weight : BL-M975 192g, BL-M970 166g

BR-M975

Hydraulic Disc Brake Caliper for International A-type

BR-M975P

Hydraulic Disc Brake Caliper for Post-Mount type

SM-RT97 Center Lock Disc Rotor

SM-BH59 Brake Hose

- Optimum stiffness-to-weight ratio
- Rotor variations : SM-RT97SS*(140mm), RT97(160mm), RT97M(180mm), RT97L(203m) *For rear only
- Weight : BR-M975 217g, BR-M975P 221g SM-RT97 135g, SM-BH59 55.2g

BR-M970 V-BRAKE

- Proven performance of Shimano's Super Linear Response system
- Weight : 400g
- FD-M970 TOP SWING Front Derailleur
- FD-M970-E BB Mount TOP SWING FD
- FD-M971 Down Swing Front Derailleur
- Adjustment screws positioning for easier reach
- Weight : FD-M970 125g, FD-M970-E 142g, FD-M971 148g

CS-M970 Cassette Sprockets

- 3-piece alloy carrier increases stiffness
- Gearings : 11-32T, 11-34T, 12-34T
- Weight: 224g (11-32T)

HB/FH-M975 Hub set for Disc Brake

HB-M976 Front Hub for 20mm Axle Disc Brake

HB/FH-M970 Hub set for V-BRAKE

- Angular contact bearings and oversize alloy axles for increased wheel rigidity, precision bearing adjustment and easy maintenance.
- Weight: HB-M975 145g, FH-M975 270g HB-M976 230g, HB-M970 140g, FH-M970 270g OR(F) 55a, OR(R) 62q

PD-M970 SPD Pedal

- Our lightest MTB SPD pedal ever
- Weight: 325g (w/o cleats)

WH-M975 Wheel Set for Disc Brake

WH-M970 Wheel Set for Rim Brake

- Super light wheel set
- Scandium alloy rim
- Tubeless & tube tire compatible
- Weight: WH-M975 1525g pair (front : 697g, rear : 828g) WH-M970 1512g pair (front : 676g, rear : 836g)





3×9-speed





Engineered for the way you ride

New Shimano Deore XT addresses the various needs of today's riders. The new rear derailleur "Shimano Shadow RD", was specially designed for more aggressive all mountain riding. The new XT disc brake with Servo-Wave, features high power braking and superior modulation. Featuring new technologies and plenty of options like XTR, the all new Deore XT is truly engineered for the way you ride.

RD-M772 Shimano Shadow RD

- Low profile and top normal design intended for more aggressive riding.
- Low profile and single tension construction / No hit to chain stay in rough riding conditions, results in smooth and silent performance.
- Direct routing reduces the risk of snagging.
- Stronger return spring for more crisp shifting feeling
- Capacity : GS 33T. SGS 45T

RD-M770 Low Normal Rear Derailleur

RD-M771 Top Normal Rear Derailleur

- Double servo-panta mechanism
- Simple cable routing (straight pull)
- Capacity : GS 33T, SGS 45T

ST-M775 Dual Control Lever for Disc Brake ST-M770 Dual Control Lever for V-BRAKE

- Compact design, and ergonomic shaped brake lever
- Multi-Release allows shifts of two gears.
- Instant Release for guick shifts

SL-M770 RAPIDFIRE Plus Shifter

- 2-Way Release for different riding styles or shifting (index finger or thumb) from various riding positions
- Instant Release for guicker shifts
- Choice of inboard and outboard position
- New concept, removable Optical Gear Display

- FC-M770 HOLLOWTECH II Crankset
- Steel/carbon composite construction and middle gear double durability
- Thicker and stiffer 44T ring
- Gearing : 44-32-22T

FD-M770 TOP SWING Front Derailleur

FD-M770-E BB mount TOP SWING FD

- FD-M771 Down Swing Front Derailleur
- Angled adjustment screws for easy access with a screw driver.
- Lighter cage (chain guide)
- Increased tire clearance through modified cage tail shape
- More clearance behind the seat tube for down swing FD, mud guard, or suspension

BL-M775 Disc Brake Lever

ST-M775 Dual Control Lever

- New level of high performance and controllability
- Servo Wave for guicker engagement, 20% more stopping power
- Reach adjustment for personal preference
- Free stroke adjustment

BR-M775 Hydraulic Disc Brake Caliper

- SM-RT78 Center Lock Disc Rotor
- SM-BH59 Brake Hose
- Stiffer mono-block caliper body
- New rotor design to increase pad life Rotor variations : SM-RT78(160mm). RT78M(180mm), RT78L(203m)

HB/FH-M775 Hub set for Disc Brake HB/FH-M770 Hub set for V-BRAKE HB-M776 20mm Thru-axle for Disc Brake

- Light weight : -39g (FH-M775), -10g (HB-M775) (compared to previous models)
- Quicker engagement freehub body (10 degrees)
- Center Lock rotor mount (HB/FH-M775, HB-M776)

BL-M770 V-BRAKE Lever (1.5-finger)

BR-M770 Cassette Sprockets

Increased stiffness

PD-M770 SPD Pedal

- Easy step-in/out
- Mud shedding interface







3×9-speed





- WH-M776 All-Mountain/Enduro Wheel Set
- Ultra thin wall extrusion reinforced at spoke hole
- Straight and 2-across spoke lace for increased torsional rigidity and spoke life
- Center Lock rotor mount system (M775/M776)
- 20mm thru axle (M776)
- Weight : WH-M775 1677g pair (front : 755g, rear : 922g) WH-M770 1670g pair (front : 722g, rear : 948g) WH-M776 2043g pair (front : 959g, rear : 1084g)

WH-M775





Super heavy duty

The design concept for SAINT is "Super Heavy Duty". The concept is achieved by equipping SAINT with an innovative mounting system that fixes the rear derailleur directly to the rear hub axle, super durable HOLLOWTECH II crankset and bottom bracket as well as powerful disc brakes. These components are sure to become the cyclists' guardian in the most challenging situations.

TAV STR

RD-M801-SS/GS/SGS Rear Derailleur RD-M806-SS/GS/SGS Rear Derailleur

- Top normal design
- Capacity : SS 29T. GS 33T. SGS 45T
- Weight : SS 338a, GS 348a, SGS 374a (M801) SS 329g, GS 339g, SGS 365g (M806)

SL-M800 RAPIDEIRE Plus Shifter

Short stroke (right hand shifter)

FC-M805 HOLLOWTECH II Crankset for 57.5mm chain line

FC-M800 HOLLOWTECH II Crankset for 50.0mm chain line

• Weight : FC-M800-3 1194g (175mm) FC-M800-2 1168g (175mm) FC-M800-1 1100g (175mm, 38T)

FD-M805/FD-M806

Front Derailleur (for 57.5mm chain line)

- Wide link design
- Weight : FD-M805 172g, FD-M806 177g



BL-M800 Brake Lever

• SAINT branded hydraulic disc brake levers

BR-M800 Disc Brake System (Mineral Oil)

SM-RT80/RT80S Disc Rotor

SM-BH63 Brake Hose

- Mono-body design
- Oversized Center Lock
- SM-RT80 : 160mm, SM-RT80S : 203mm
- Weight : BR-M800 380g (F&R w/ adapter) SM-RT80 210g SM-RT805 145a

HB-M801 Front Hub

• Weight : 265g

FH-M801

- Rear Freehub for 135mm O.L.D.
- Weight : 465g (w/o axle), Axle 115g

FH-M806

Rear Freehub for 150mm O.L.D.

• Weight: 495g (w/o axle), Axle 155g





RD-M801-GS







3/2/1×9-speed

FC-MX70 HOLLWTECH II Crankset

SM-CR80 Chainring

- Conceived for strength based on proven SAINT HOLLOWTECH II design
- Chainring options : 34/38/41/42/43/44/46T
- Reinforced pedal/crank interface (T-nut style steel threaded bushing)
- Optical Gear Display
- Crank arms length variations : 165mm, 170mm, 175mm, 180mm
- 9-speed HG chain compatible
- Chainline 44mm
- 68mm BB shell compatible

BL-MX70 V-BRAKE Lever

• Right and Left hand levers available

- Proven performance of Shimano's Super Linear Response system
- 2-finger Deore-type lever / The preferred choice of top professionals

BR-MX70 V-BRAKE

- Rear brake only
- Cold forged brake arm
- Cartridge shoe
- HB-MX70 Front Hub
- FH-MX70 Rear Freehub
- Super smooth angular contact bearings
- Durable, quicker engagement freehub based on new XTR
- 32H/36H

CS-MX66 Sprocket

• Single sprocket : 14/15/16/18T

Shimano DXR-bringing top-level design and engineering to BMX racing.

Designed to meet the demands of today's Olympic prospects. Ideal for use at the local race track.

T

SHIMANO

Components for cross country and trekking

DEORE LX has all upgraded functions of Shimano technology, including the Dual Control shift levers. The component system also features the HOLLOWTECH II drivetrain, Center Lock compatible rear freehub and front hub, and 2 piece mono-body style disc brake calipers.

ST-M580/M585 Dual Control Levers

- Dual Control Levers / Allows lever operation from multiple hand positions.
- Refined lever shape and mechanism / New lever shape improves finger-lever interface. Compact shifting mechanism, slims down appearance.
- Optical Gear Display
- ST-M580 : for V-BRAKE ST-M585 : for hydraulic disc brake



SL-M580

- SL-M580 RAPIDFIRE Plus Shifter
- 2-way release for faster shifts during various riding conditions and situations

2-way release



- RD-M581-GS/SGS Top Normal Rear Derailleur RD-M580-GS/SGS Low Normal Rear Derailleur
- Wide link design
- Rubber bumper on P-body : Option / Reduces noise and adds durability
- Capacity : GS 33T, SGS 45T

CS-M580 Cassette Sprocket

- Lighter weight minimal design sprocket
- Gearing : 11-34T, 11-32T

FC-M582/M583-K

HOLLOWTECH II Crankset

- Lighter and stiffer
- Hyperdrive SG-X chainrings
- FC-M582: 44T-32T-22T
 FC-M583-K: 44T-32T-22T, 48T-36T-26T
 chaincase compatible

FD-M580A/M580-E/M581A

- Front Derailleur • Wide link design
- white link design
- Hyperdrive compatible
- Dual Pull / Dual pull design allows it to be used with top or bottom cable routing.
- Multi Clamp / Multi-clamp band compatible with all frame dimensions. Adapters utilized for 28.6 and 31.8 and 34.9mm sizes.
- Variations : FD-M580A-3 : TOP SWING FD (63-66') FD-M580A-6 : TOP SWING FD (66-69') FD-M580-E : TOP SWING E-type FD (66-69') FD-M581A-3 : Down Swing FD (63-66') FD-M581A-6 : Down Swing FD (66-69')

BR-M585 Disc Brake System SM-RT62 Disc Rotor SM-BH59 Hose

- Hydraulic disc brake (mineral oil)
- Opposed 2-piston design
- Easy and fast set-up
- Center Lock system
- Resin and metal pads are available
- Compatible with International and Post-type mounts

BR-M580 V-BRAKE

• Cartridge shoe

BL-M571 V-BRAKE Lever • Lever reach adjustment

BL-M585 Hydraulic Disc Brake Levers

Lever reach adjustment



HB/FH-M580 Hub set for V-BRAKE HB/FH-M585 Hub set for Disc Brake

- Center Lock system compatible (M585)
- Cup & Cone bearing
- Smooth rolling
- Rubber cap available for Center Lock mount
- 32H/36H
- Double contact sealing
- Improved sealing system / Improved external seals, O-rings of front hub and internal grease sleeve help maintain and increase service life to keep the original performance over an extended time period.



3×9-speed





3/2×9-speed

HONE is an affordably priced enduro/all-mountain group intended to "sharpen, improve and develop" your riding skills.

SL-M580 RAPIDFIRE Plus Shifter BL-M585 Hydraulic Disc Brake Lever See page 14

RD-M601-GS/SGS

Top Normal Rear Derailleur

- Hub axle installation / Direct axle mounting increases durability and preserves index shifting.
- Adjustable bump stop / Reduces noise and damage to frame and rear derailleur
- Integrated skid plate design / The smooth, reinforced rear derailleur lower surface moves the cable anchor to top to prevent damage and increase durability against impact
- Top normal design
- Compatible with FH-M600
- Capacity : GS 33T, SGS 45T

FC-M600-3 HOLLOWTECH II Crankset

- HOLLOWTECH II crankset / Provides optimal balance of light weight and rigidity
- FC-M600-3: 44-32-22T
 FC-M601-2: 32-22T w/Bash Guard
- Hyperdrive SG-X chainrings
- DUAL SIS compatible
- Steel BB axle and steel pedal bushing for durability

BR-M601 Hydraulic Disc Brake System

- Opposed 2-piston / Strong braking power with minimalist design
- 160, 180 and 203mm rotors available
- Easy and fast set-up / Shimless caliper mounting and adjustment and Center Lock rotor mounting simplifies installation
- Center Lock system
- Metal and resin pads are available
- Compatible with International and Post-type mounts

FD-M600/M600-E/M601 Front Derailleur

 Features the innovative functions of XTR and XT

HB-M600/FH-M600 Hub and Freehub

- Cup & Cone bearing
- Center Lock system compatible
- New solid hub axle mount (FH-M600)
- Improved sealing system / Improved external seals, O-rings of front hub and internal grease sleeve help maintain and increase service life to keep the original performance over an extended time period.





* HONE is developed for all mountain riding and is different from SAINT which is intended for extreme freeriding.

RD-M601-GS



High-performance components for serious cycling fun

DEORE is designed to appeal to a wide range of cycling fans by inheriting the key functions of DEORE XT and DEORE LX at a great value. DEORE design concept blends "Smart & Sharp" forms intended to complement bikes for trekking as well as MTB's.

ST-M530/M535 Dual Control Lever

- Dual Control Lever / Allows lever operation from multiple hand positions.
- Compact shifting mechanism
- Optical Gear Indicator
- SIS-SP41 outer casing
- ST-M530 : for V-BRAKE ST-M535 : for hydraulic disc brake
- Color options : Black, silver

NEW

RD-M531-SGS Top Normal Rear Derailleur

- RD-M530-SGS Low Normal Rear Derailleur
- Wide link design / Increases rigidity and service life
- Capacity : 45T
- Color options : Black, silver

FD-M530/M531 Front Derailleur

- Wide link design
- Hyperdrive compatible
- TOP SWING front derailleur (FD-M530)
- Dual Pull
- Multi Clamp
- Compatible with 44T and 48T top
- Total capacity : 22T
- Top-middle capacity (min) : 12T
- Variations :

FD-M530-3 : TOP SWING FD (63-66°) FD-M530-6 : TOP SWING FD (66-69°) FD-M531-3 : Down Swing FD (63-66°) FD-M531-6 : Down Swing FD (66-69°)

FC-M532/M533-K Crankset

- 9-speed HG chain compatible
- 2-piece construction
- Outboard bearing system
- FC-M532 : 44-32-22T, 48-36-26T FC-M533-K : 44-32-22T, 48-36-26T chaincase compatible
- Color options : Black, silver

SL-M530 RAPIDFIRE Plus Shifter

- 2-way release for faster shifts during various riding conditions and situations
- SIS-SP41 outer casing

CS-HG50-9 9-speed Cassette Sprockets

- Wide-range Mega-9 gearing
- HG HyperGlide sprocket design

BR-M535 Hydraulic Disc Brake SM-RT62 Disc Rotor

- SM-BH59 Brake Hose
- Opposed 2-piston design
- Easy and fast set-up
- Center Lock system
- Resin and metal pads are available
- Compatible with International and Post-type mounts

BL-M535 Hydraulic Disc Brake Lever

• Lever reach adjustment

BR-M530 V-BRAKE

- Longer arms for better mud guard clearance (107mm)
- Color options : Black, silver

BL-M511 V-BRAKE Lever

- Adjustment lever reach
- Color options : Black, silver

HB/FH-M530 Hub set for V-BRAKE HB/FH-M535 Hub set for Disc Brake

- Center Lock system compatible (M535)
- Improved sealing system / O-rings of front
- Improved sealing system / O-rings of front hub and internal grease sleeve of rear freehub
- Cup & Cone bearing
- Smooth rolling
- Rubber cap available for Center Lock mount
- Color options : Black, silver
- 32H/36H



A DEORE low normal rear derailleur and Dual Control Lever are also available.



Disc Brake Performance

M01/M03/M06 : Longer pad-life, good for anti-fade, good consistency either dry/wet. May cause noise while braking.

M02/M04/M05/M07/M07S : Same level performance as metal pad. Shorter pad-life than metal.

M06Ti : Longer pad-life, good for anti-fade, good constancy either dry/wet. May cause noise while braking. Titanium plate, light weight.

M07Ti : Longer pad-life on long descend. Titanium plate, light weight. A015/B015 : Same performance of metal pad. Longer pad-life on long descends.

M08 : Do not use M08 brake pads in combination with the BR-M515/BR-M515-LA brake systems. If M08 brake pads are used, the brake arm and caliper will touch before the pad wear indicator is noticed and a noise indicating that the pads need to be replaced is heard, and this will result in a gradual reduction in braking performance until ultimately the brakes stop working. C01 : Easy, controllable metal pad. Good for trekking use.

| Model | | XTR M975 | SAINT M800 | HONE M600 | DEORE XT M775 | DEORE LX M585 | DEORE M535 | M545 | M415 | M495 | M485 | M465 | R505 | NEXAVE C901 |
|--------------------------|--------------------|---------------------------------------|------------------------------------|------------------------------------|--|------------------------------------|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Application | | competition/ all mountain | extreme freeride | all mountain | crosscountry / all mountain / trekking | cross country / trekking | cross country / trekking | sport / recreation | utility & recreation |
| Caliper | | opposed two-piston | opposed two-piston | opposed two-piston | opposed two-piston | opposed two-piston | opposed two-piston | single piston | single piston | single piston | opposed two-piston | single piston | single piston | opposed two-piston |
| Pad | | M07Ti:resin option/ M06Ti:metal | M06:metal option/ M075:resin | M06:metal option/ M07S:resin | A01S:resin option/ M06:metal | M07S:resin option/ M06:metal | M07S:resin option/ M06:metal | M06:metal | M08:resin | M08:resin | B01S:resin | M08:resin | M06:metal | C01:metal |
| | Caliper (front) | 108 | | 198 (metal) w/ adapter | 142 (resin) | 183 w/ adapter | 180 w/ adapter | | | | | | | 161 |
| | Rotor | 135 (160mm) | 210 (203mm)/ 145 (160mm) | 149 RT62 (160mm) | 151 RT78 (160mm) | 149 RT62 (160mm) | 149 RT62 (160mm) | | | | | | | 168 |
| Average Weight (g) | Hub (front) | 145 | 265 HB-M801 | 201 HB-M600 | 170 НВ-М775 | 201 HB-M585 | 200 HB-M535 | | | | | | | 230 |
| (9) | Lever (front) | 221 ST-M975 | 248 ST-M800 | 252 ST-M600 | 256 ST-M775 | 252 ST-M585 | 260 ST-M535 | | | | | | | 126 BL-C901 |
| | Total | 609g | 913g (203mm rotor) | 800g | 719g | 785g | 789g | | | | | | | 685g |

Note: • Always use genuine Shimano mineral oil with Shimano disc brakes.

• Hubset is not included with disc brake systems.

· Both international A-type and Post-Mount type are available.

• Brake pad number is on the backside of the pad.

Mountain Bike Wheel Systems

WH-M975/WH-M970

- Balanced spoke pattern for increased lateral stiffness
- WH-M975 : Disc brakes compatible only WH-M970 : Rim brakes compatible only
- Light but tough Scandium alloy rims
- Tubeless & tube tire compatible allows for a wider choice of tires
- Quicker engagement 4-pawl freehub body engages faster than previous generations for a feeling of instant power transfer
- Top-notch, premium laser cut logo QR levers
- Center Lock rotor mounts to the hub quickly and effectively (WH-M975)
- Weight : WH-M975 1525g pair WH-M970 1512g pair

XTR

WH-M775/WH-M776/WH-M770

- WH-M775/M776 : Disc brakes compatible only WH-M770 : Rim brakes compatibility only
- Ultra thin wall extrusion reinforced at spoke hole
- Center Lock rotor mounts to the hub quickly and effectively (M775/M776)
 Straight spokes and 2-cross lace for
- increased torsional rigidity and spoke life
- Quicker engagement 4-pawl freehub body engages faster than previous generations for a feeling of instant power transfer
- Center Lock rotor mount system (M775/M776)
- 20mm thru-axle (M776)
- Weight: WH-M775 1677g pair WH-M776 2043g pair WH-M770 1670g pair

WH-M565/WH-M565-disc

- Versatile wheel engineered to endure the worst conditions
- WH-M565 : Both disc and rim brake compatible WH-M565-disc : Disc brakes compatible only
- 24 spokes front and rear
- Center Lock rotor mounts to the hub quickly and effectively
- Machined rim braking surface for smooth braking
- Weight : WH-M565 2109g pair WH-M565-disc 2125g pair

WH-M505/WH-M505-disc

- Shimano quality replacement wheel set
- WH-M505 : Both disc and rim brake compatible WH-M505-disc : Disc brakes compatible only

WH-M775



SHIMANO WHEEL TECHNOLOGY



WH-M565

- Center Lock rotor mounts to the hub quickly and effectively
- Angular contact bearing assemblies and dependable Shimano freehub
- 28 spokes front and rear
- Weight : WH-M505 2088g pair WH-M505-disc 2164g pair





Deore

SHIMANO



Center Lock adapter for 6-bolt rotor (SM-RTAD10) 29g/wheel

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RAPIDFIRE Plus

EZ FIRE-Plus



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3×8-speed

High performance, best value MTB components

ST-M410 RAPIDFIRE Plus Shift/Brake Lever Set ST-M405 F7 FIRE Plus Shift/Brake Lever Set SL-M410 RAPIDEIRE Plus Shift Lever

- 8-speed shifting
- Wide Optical Gear Display
- Updated EZ FIRE Plus design (ST-M405)
- Alloy brake levers and triggers (ST-M405)
- Lever reach adjustment
- Color options : Black, silver (ST-M410)

RD-M410-SGS Rear Derailleur

- Compatible with 8/7-speed HG sprocket
- Advanced Light Action design
- 13-tooth pulleys
- Low-friction link pivot bushings
- SIS rear index shifting Capacity : 43T
- Color options : Black, silver

FD-M412 TOP SWING Front Derailleur

FD-M410-E

TOP SWING Front Derailleur (BB mount)

FD-M413 Down Swing Front Derailleur

- 7/8-speed compatible
- Hyperdrive compatible
- Wide link design for great shifting performance
- Dual pull
 Multi clamp
- Compatible with both 47.5/50 mm chainline (FD-M412/M413).
- Modified chain guide tail shape for more tire clearance (FD-M412/M413)
- Inner link position change for more mud guard clearance (FD-M413)

- Capacity : 20T
- Variations : FD-M412-3 (63-66°) FD-M412-6 (66-69°) FD-M410-E (66-69°) FD-M413-3 (63-66°) FD-M413-6 (66-69°)

CS-HG50-81 8-speed HG Cassette Sprockets

- HG sprockets / Compatible with HG/IG chains, HG sprockets deliver faster, quieter down-shifts and smoother up-shifts
- Gearings : 11-32T, 11-30T

FC-M410-8 OCTALINK Crankset

FC-M410 Crankset

- FC-M411 Crankset (chaincase compatible)
- 8-speed HG chain compatible
- Hyperdrive SG-X chainrings
- DUAL SIS compatible
- Chainguard type available
- Replaceable steel chainrings
- FC-M410/M410-8 : 42T-32T-22T FC-M411: 42T-32T-22T, 48-38-28T
- Color options : Black, silver

BB-ES25 OCTALINK Bottom Bracket

- BB-UN26 Cartridge Bottom Bracket
- Smooth rotation

BL-M420 V-BRAKF Lever

• Lever reach adjustment

FH-M495A HR-M4954 **BR-M545** SM-RT62

BR-M545 Mechanical Disc Brake

SM-RT62 Center Lock Compatible Disc Rotor

- Excellent performance at an affordable price range
- Pad clearance adjustability from both sides
- Metal pad
- Easy set-up and adjustment
- Lightweight and high performance cable disc brake
- Compact caliper body design
- Strong stopping power with precision control
- V-BRAKE lever compatible



HB/FH-M495A Hub Set

- Center Lock system compatible
- Cup & Cone bearing
- High sealing performance and the internal grease sleeve for improved durability
- Color options : Black, silver

HB/FH-M475 Hub Set

- Cup & Cone bearing
- Color options : Black, silver



8-speed components for real MTB performance

The new ALTUS component group has been redefined completely in order to meet the required functions and values in this price segment again.

ST-EF60-8R/L

8-Speed EZ FIRE Plus Shift/Brake Lever Set

- Large Optical Gear Display compared to ST-EF50 (+30%)
- Right side cable adjusting barrel
- Color options : Black, silver

ST-EF50-8R/L

- 8-Speed EZ FIRE Plus Shift/Brake Lever Set
- Optical Gear Display
- Lever reach adjustment

RD-M310 Rear Derailleur

RD-M340 Rear Derailleur

- MegaPulley
- SMARTCAGE pulley plate
- Advanced Light Action design
- Wide link design increases durability and precise shifting (RD-M310).
- Low-friction link pivot bushings
- REAR SIS index shifting system
- Capacity : 43T
- Color options : Black, silver

FC-M341-8/M311-8

- Hyperdrive compatible
- DUAL SIS compatible
- Sealed cartridge assembly
- Replaceable chainrings (M341-8/M341)
- FC-M341-8/M311-8 : 42-32-22T FC-M341/M311 : 42-32-22T, 48-38-28T
- Chaincase compatible
- Chainguard option available
- Color options : Black, silver

BB-ES25 OCTALINK Bottom Bracket

- BB-UN26 Bottom Bracket
- Smooth rotation
- Oversized BB spindle (BB-ES25)

FD-M310 TOP SWING Front Derailleur

- FD-M311 Down Swing Front Derailleur
- DUAL SIS front index shifting
- 47.5/50mm chainline compatible
- Wide link design for great shifting performance

- Inner link position change for more mudguard clearance (FD-M311)
- Modified chain guide tail shape for more tire clearance
- Variations : FD-M310-3 (63-66°) FD-M310-6 (66-69°) FD-M311-3 (63-66°) FD-M311-6 (66-69°)

FC-M191 Crankset

- 8,7,6-speed
- Chainring combinations : 42-34-24T, 48-38-28T
- Chainline : 47.5mm
- Chainguard option available
- Color options : Black, silver (Many color options)

FD-M190 TOP SWING Front Derailleur

- 7, 8-speed compatible
- DUAL SIS front index shifting
- Compatible with 42-34-24T
- Dual Pull, Multi Clamp Band
- Designed for chainline 47.5/50mm

CS-HG50-8I/HG40-8I/HG30-8I 8-speed HG Cassette Sprockets

• HG sprockets / Compatible with HG/IG

- HG sprockets / Compatible with HG/G chains, HG sprockets deliver faster, quieter down-shifts and smoother up-shifts
- Gearings : CS-HG50-8I 11-30T/11-32T CS-HG40-8I 11-30T/11-32T/11-34T CS-HG30-8I 11-30T/11-32T

BR-M421 V-BRAKE

- Longer arm for better clearance with mud guard
- POWER MODULATOR system (SM-PM40) for V-BRAKE with 4-finger lever
- Color options : Black, silver

FH-RM60-8 Rear Freehub (8-speed) HB-RM60 Front Hub

• Wide bearing placement and reduced spoke offset strengthen the rear wheel.

* 7-speed system is also available.

SHIMANO era Altus SHIMADO

3×8-speed



Non-Series Components

Crankset for 9-speed

FC-M542-L/S Crankset FC-M543-LK/SK Crankset • 2-piece construction • Hyperdrive SG-X chainrings • DUAL SIS compatible Outboard bearing system
 Steel spindle
 Alloy outer, middle rings • Chainline : 50mm • Gearings : FC-M542 : 44-32-22T FC-M543-K : 44-32-22T, 48-36-26T chaincase compatible FC-M521-L/S HOLLOWTECH Crankset BB-ES25-AK OCTALINK Bottom Bracket OCTALINK construction
 Hyperdrive SG-X chainrings
 DUAL SIS compatible • Chainline : 50mm • Gearings : 44-32-22T, 48-36-26T chaincase compatible • Color options : Black, silver **Hydraulic Disc Brake System** BR-M485 Hydraulic Disc Brake (Shimano logo) BL-M485 Hydraulic Disc Brake Lever (Shimano logo) SM-RT53 Center Lock Compatible Disc Rotor Strong stopping power with precision control Attractive price with high performance
 Resin pad only • Lever reach adjustment • Center Lock rotor mount BL-M485 BR-M485 SM-RT53M





Shimano Original Functions

Thanks to the constant challenge to the evolution of bicycle and its functions, the bicycle has become faster, safer, and more comfortable. At Shimano, we have continued to pursue basic performances and advanced functions of bicycle components from the viewpoint of understanding the bicycle as an integrated system. Sometimes we have developed unique functions that were way beyond the bounds of common sense. At other times we have created new functions by analyzing the psychology of cyclists including the professional racers under stress. And now we are working on the further futuristic development themes such as originating products that are easy and more comfortable for everyone and also good for the ecology. The development themes are "Best Shifting Performance" and "Best Braking Performance".

We have created all of Shimano original functions introduced here in search of better relationship between bicycles and people.

Best Shifting Performance

Dual Control Lever

The Dual Control Lever sets a standard for shifting ease and swiftness. It lets you shift gears up or down, regardless of your hand position on the handle bar. The secondary release lever provides another shifting option that is a great "transitional" feature as you become accustomed to Dual Control shifting and can be removed if desired for the ultimate "clean" set-up. Internally, shifting is executed by the tried and true high precision indexing system found in the M950 series XTR, featuring three sets of ball bearings that result in more precise shifts, a shorter lever stroke and decreased shifting effort.

Secondary release lever



Push lever up to inward

XTR

Dual Control Lever

Instant Release (XTR/DEORE XT)

Since the left and right Dual Control Lever operate in the same way with the low normal rear derailleur, intuitive and accurate operation is possible. In addition, accurate inward shifting through one touch operation is realized since spring tension supports changing to a lower gear. There is no need to push the chain to the gear by force. Therefore noise is reduced and the gears have longer durability.



2-Way Release (XTR/DEORE XT/DEORE LX/DEORE)

The release lever a RAPIDFIRE Plus shifter is commonly called trigger because it is operated like a pistol, by pulling toward the grip. The release lever of new RAPIDFIRE Plus shifters from LX to XTR can be operated in this same manner but adds the ability to activate a release shift by pushing with the thumb. 2-way release matches your riding style and encourages you to learn others. See here how 2-way release is demonstrated in conjunction with Multi-Release.



Multi-Release (DCL : XTR/DEORE XT, RAPIDFIRE : XTR)



Previous shifting systems shifted faster in one direction then the other. Choosing top normal or low normal always meant sacrificing shifting speed in one direction. Now with Multi-Release you can release shift two gears in one stroke. The result - the fastest possible shifting in both directions regarding of rear derailleur choice.





Pushing up the main lever (Dual Control Lever)

Pushing the release lever (Dual Control Lever)





2-way and Multi-release shifting allows for the changing of two gears with one stroke by pulling or pushing (XTR).

Best Shifting Performance

RAPIDFIRE Plus shift lever

(Recommended in combination with a top normal rear derailleur)

Mountain bikers have used RAPIDFIRE Plus since 1985. RAPIDFIRE Plus is still a winning choice from a wide range of riders from XC racers to freeriders. RAPIDFIRE Plus is suited to urgent shifting, giving riders with top normal rear derailleurs the ability to downshift three gears in one stroke. RAPIDFIRE Plus shifters from DEORE LX to XTR all feature 2-way release, which means release shifts by pull of the index finger or push of the thumb. With XTR you also get Instant Release and Multi-Release.



Wide link front and rear derailleur

The wide pivot link design boosts strength and rigidity. Flex is suppressed, creating sharp, precise shifts that are faster and smoother, even from low to high gears, off the saddle.





FD-M771

RD-M772

SIS-SP41

The SIS-SP41, being pre-lubricated with the special silicon grease inside of the outer casing, decreases the resistance inside the outer cable significantly (about 10% in comparison with the previous

model) and achieves an intuitive, quick and precise shifting performance.



HG sprockets

Special designed HYPERGLIDE sprockets incorporate specifically positioned shift ramps and tooth profiles for improved chain control during shifting. Fast and responsive indexed shifting is the result.



Hyperdrive front drive system

With Hyperglide, Shimano pioneered the use of a variety of gear profiles and shift ramps to improve shifting performance. Front drivetrain components are engineered as a system, working together towards a single goal: Provide quiet, easy and trouble free shifting. The leading teeth, the spike pins of the SG-X chainrings, the super rigid Wide-link front derailleur and the special profiles of the HYPERGLIDE chain links are combined to create a smooth, quiet and precise shifting system, even under load.





Best Shifting Performance

SHIMANO SHADOW RD (XTR, DEORE XT)

New mechanism rear derailleur, SHIMANO SHADOW is intended for more aggressive riding. Its super low profile design carries many benefits. Because of its low profile and single tension construction, the derailleur doesn't hit the chain stay in rough riding conditions. The result is smooth and silent performance.

<Low profile design>





Shadow RD

33mm



Double Servo-Panta Mechanism

Shimano's Double Servo-Panta Mechanism enables the rear derailleur to move in an optimum path. The guide pulley tracks the cogs closely while moving front to back, optimizing each shift. Perfect tracking contributes to the most accurate SIS shifting.

Top Normal Derailleur System

(Recommended in combination with the RAPIDFIRE Plus Shift Lever)

Top normal rear derailleurs are traditionally sprung derailleurs. RAPIDFIRE Plus users tend to prefer the increased reaction time of top normal rear derailleurs because they downshift more gears faster. Riders who prioritize the need to react quickly further appreciate the ability to make inward shifts with the thumb, the strongest of all fingers.

Low Normal Derailleur System

(Recommended in combination with the Dual Control Lever)

With the advent of the low normal rear derailleur, Shimano has taken downshifting to a new level by using spring force to execute shifts to a lower gear. Inward shifting is further enhanced by the ability pre-select gears, or activate shifts without pedaling. Pre-selecting gears gives you a unique advantage by allowing you to anticipate a shift before it happens. Quick shifting : Inward shifting with thumb. Shifting can be completed swiftly.



Keeps rear derailleur guide

pulley an optimum distance

from each sprocket.





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Best Shifting Performance

Optical Gear Display

The Optical Gear Display tells you which gear position is selected while riding your bike. You can see how many gears you can select either on low side or top side, which makes shifting control easier.



DUAL SIS front and rear index shifting

The SIS Rear Index Shifting System, which has been noted for its accurate, precise and smooth shifting system, was adopted to the front. The front with the index system makes shifting operation easier and more comfortable.

TOP SWING front derailleur

Because the moving pivot section is set at a higher position and combined with a shorter link, the rigidity is higher while quick and light shifting is possible.



Advanced Light Action rear derailleur

Low-friction link pivots and the use of a low-tension extension spring significantly lower the effort needed to shift the derailleur regardless of gear position.

SERVO WAVE Action for Disc Brake (DEORE XT)

When you pull a SERVO WAVE brake lever, initial pad travel is fast, so little lever movement is needed to bring the pads into contact with the rotor. The power multiplication factor then increases rapidly at the pad-to-rim contact so more of the lever stroke is used to apply greater braking power with improved control.



Reach Adjust of Dual Control Lever/Brake Lever (XTR/SAINT/DEORE XT/HONE/DEORE LX/DEORE)

Both brake levers and DCL are equipped with a reach adjust mechanism. The distance from handlebar grip to lever can be adjusted to suit any hand size, type of riding and individual rider preferences.

Free Stroke Adjustment (DEORE XT)

Brake control feeling varies delicately with riders. DEORE XT adopted Servo Wave Action to provide quicker engagement and 20% more stopping power along with Free Stroke Adjustment mechanism.

This mechanism gives a much Free stroke adjustment screw better braking response to meet rider's need. Custom setting through Pad contact point the reach adjust and Free Stroke Adjustment Pad allows for the best possible brake feel for a variety of riders. Rotor

Best Pedaling Performance

2-piece Crankset Construction (DEORE)

Our 2-piece crankset construction with the integrated bottom bracket. Weight is reduced. Rigidity and power transfer are radically increased. In addition, outboard bearings provide more effective load distribution, while increasing rigidity and stability.



HOLLOWTECH crank arm and OCTALINK BB mount

Hollow-forged crank arm reduces weight without sacrificing strength and rigidity. Splined OCTALINK axle interface increases rigidity. Hollow chrome-moly bottom bracket spindle is 22mm in diameter, provides extreme rigidity with light weight.



Cup & Cone bearing hubs

Cup & Cone bearings offer greater strength than sealed cartridge industrial bearings due their ability to displace lateral and vertical loads more effectively

Direction

of load

of load

Direction

distribution

for super smooth rotation and longer durability. Cup & Cone bearings also allow easier maintenance, adjustability and serviceability. Direction of load distribution



Industrial bearing

Cup & Cone bearing

Labyrinth and contact sealing

Specifically designed seals inside the hub shutout mud, dust, dirt and moisture and protects the bearing mechanisms, realizing low maintenance as well as longer service life. This maintains the original performance for a longer period of time under unfavorable environmental conditions.



Internal grease sealing

New DEORE XT, DEORE LX, HONE and DEORE freehubs feature internal o-rings and grease sleeve that help maintain grease levels and increase service life.



O-ring



Internal grease sleeve

Best Braking Performance

Disc brake Linear Response Braking

One of the most important things that a disc brake needs for severe off-road conditions is a highly modulated feeling of control. The brake must be able to provide a balance of speed control as well as strong stopping power when quick deceleration or stops are needed. Our engineer's development and effort is in creating and improving modulation control. This is the strongest point of all Shimano disc brakes.

Disc brakes for XTR, SAINT and XT provide the benefits of disc brakes at a weight that will be embraced by all MTB enthusiasts. The opposed dual piston caliper is a forged one-piece "mono-body" design that eliminates the need for caliper assembly bolts. In addition to reduced weight, the caliper is more rigid. The rotor mounts to the hub quickly through a spline and lock ring mechanism. This feature is sure to be popular with riders, when packing and traveling with their bikes and with mechanics that won't be dealing with stripped-out or broken mounting bolts. Brake pad options include a fade resistant, longer wear metallic compound or a low noise, smooth feeling resin compound.

Center Lock system

The Center Lock system makes an easy rotor installation possible with spline mount and a lock ring. The lock ring mounting system reduces the total hours of work by shortening the amount of time of both installation and de-installation. In addition, the secure fixing by the spline mount enhances precision and rigidity while improving braking efficiency.



XTR XC Competition / All Mountain



Braking Performance for All Types of Cycling — Shimano's Braking System Concept





V-BRAKE

Hydraulic disc brake



POWER MODULATOR unit (SM-PM40) and V-BRAKE

Roller brake with POWER MODULATOR

system

Select the appropriate braking system for your intended use and skill level Shimano offers several Braking Systems to suit your intended use and skill level. Shimano

Shimano oriers several Braking Systems to suit your intended use and skill level. Shimano recommends that you consult your bicycle retailer or dealer in the selection of an appropriate Shimano Braking System. It is important for your cycling enjoyment and safety that you select a Shimano Braking System suited for your skill level and intended use. Shimano has worked to achieve the highest level of braking performance to provide you with the appropriate braking system suited for a variety of cycling uses, from road and MTB racing to casual recreational riding. The braking performance may vary according to rider's weight and hand size.

Shimano's development of braking systems

Shimano has developed its braking systems targeted to the skill level of experienced road and MTB racers which provide a strong and responsive braking force. At the same time, Shimano offers a braking system more suited for less experienced riders and general cycling enjoyment which features ease in application for recreational use. It is important to consult your bicycle dealer which Shimano Braking System is appropriate for your intended use.

Sport braking system for experienced cyclists

Shimano has developed a linear response braking system which provides the experienced cyclist with a stronger braking force. This feature can be found in the braking systems for MTB, Shimano M SYSTEM, as adopted in the Shimano V-BRAKE, which features a stronger braking force. This linear response disc brake system is incorporated into Shimano's hydraulic disc brake which features a strong, yet controlled and stable braking force.

Shimano's easy-to-use brake system for less experienced and recreational riders

For beginning cyclists, less experienced and recreational riders, Shimano offers an Easy-to-Use braking system, incorporating a POWER MODULATOR into its front brakes. This system features the easy to use four-finger brake lever and V-BRAKE, Cable Disc Brake and Roller Brake. The POWER MODULATOR offers an easy and comfortable brake control by moderating excessive lever input force.

Different brake performances appropriate for different biking

Consult with your local bicycle dealer in the selection of a Shimano Braking System appropriate for your intended use and bicycle skill level. Safe operation of your bicycle is the operator's responsibility, which includes the appropriate strength and capabilities of your braking system. BJARNE EGEDESØ A/S Denmark, Iceland, Greenland Phone 6316-8001 Fax 6316-8004

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When participating in the sports depicted in this brochure, Shimano recommends that you use the proper safety protection for that sport. The riders seen in these pictures are experienced experts or professionals, and Shimano requests that you do not attempt to duplicate any of the actions shown in this brochure that are beyond the capabilities of your equipment or your own abilities.

