ATKBINDINGS



(ENG) USER'S AND MAINTENANCE **GUIDE-BOOK**



RAIDER 12 | 2.0

(M.Y. 2018) - 350 GRAMS

WARNING! DANGER!

The removal of the "SEAL OF LIABILITY ", firmly affixed to the product by the manufacturer ATK RACE S.R.L.

MUST BE PERFORMED

exclusively by the original user himself.

The removal of the "SEAL OF LIABILITY" is the proof of a full, direct, careful and aware acknowledgement of the entirety of the parts forming the "USER'S AND MAINTENANCE GUIDE BOOK" which is inserted into the packaging of the product itself, in particular the full acknowledgment of the entirety of the disclosures contained into the warning boxes underlined by the words

" MARNING! DANGER!"

regarding the risks raised by the product use, for the user it-self and/or third parties, and all the producer "LIABILITY LIMITATIONS" clauses.



WARNING! DANGER!

-HIGH POWER PERMANENT MAGNETS! -USE DENIED TO PACE-MAKER-PROVIDED USERS!

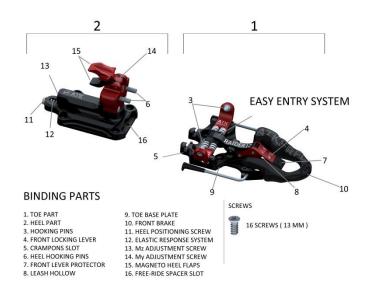


The ATK® ski touring bindings are shaped following the most sophisticated design principles and highest level mechanic techniques. ATK® bindings are completely designed, developed and manufactured in our company in Fiorano Modenese (Modena, Italy).

They comply with the exigencies of the top athletes and those who are constantly looking for lightness, performances and reliability.

However, to this purpose, we invite you to read all the instructions carefully, in order to protect your own safety.

1 BINDING MAIN PARTS IDENTIFICATION



WHAT WILL YOU FIND INTO THE PRODUCT BOX?

NR. 2 TOES, NR. 2 HEELS, NR. 16 SCREWS 13 mm, NR. 1 "USER'S AND MAINTENANCE GUIDE BOOK", NR. 1 4 MM SPACER, NR. 1
"ATK BINDINGS" STICKER.

2 GENERAL WARNINGS AND RECOMMENDATIONS FOR THE USER



WARNING! DANGER!

Before any use, make sure of your full and responsible comprehension of the integrity of this

"USER'S AND MAINTENANCE GUIDE BOOK".

In case of doubts or uncertainty and, in general for any kind of communication, we kindly ask you to contact our offices at the e-mail address service@atkrace.com, for integrations or additional explanations regarding this "User's and Maintenance Guide"



WARNING! DANGER!

- ATK® binding model "R12 | 2.0" has been designed, developed and produced with the only purpose of extreme lightness and performance; these factors may influence the safety characteristics of the product it-self, such as the quality or repeatability of the release.
- The ATK binding model "R12 | 2.0" DOES NOT COMPLY WITH ANY DIN/ISO SAFETY STANDARD (in particular it does not comply with DIN/ISO 11088, nor DIN/ISO 13992): in some conditions, the use of this product may represent a danger for the user itself, due to the uncertain unpredictability of the release in case of need or the possibility of undesired releases in dangerous situations.
- "R12 | 2.0" is anyway provided of adjustable release systems for the adjustment of the SIDE (Mz) and FRONT (Mv) release which, in case of perfect setting, may reduce the risk of injury for the limbs under the femur
- The use of a front ski-brake may modify the Mz release values of the binding; always set the binding when the brake is active in down-hill position, as show at paragraph 6.1, image 3.
- By removing the "SEAL OF RESPONSIBILITY" from the binding, the user consciously assumes all the responsibilities arising from the use of the product it-self, and relieves the producer from any eventual liability on damages caused to the user itself, goods or third parties during the use of the product.



WARNING! DANGER!

The ORIGINAL USER assumes the full responsibility to deliver this "USER'S AND MAINTENANCE GUIDE BOOK" to eventual secondary users (even temporary users) of the product it-self and to verify that they received a full and correct training on the use-modalities, besides having fully and unequivocally understood all the parts composing this "USER'S AND MAINTENANCE GUIDE BOOK".

- Please, be aware that ski-mountaineering, like many other high mountain activities, is a <u>DANGEROUS SPORT</u>, that may cause injuries to the user and/or third-party; difficult situations are often un-predictable or dangerous; never overestimate your capabilities, never ski if sick of wounded or under the effect of alcohol, medicines or drugs.
- ATK ® bindings are realized and tested according to ski boots with "TECH" inserts, with standard brand-new
 hooking plates and original dimensions; using ski boots with <u>non</u>-standard inserts or with very worn inserts
 may change the bindings functionality and can create a risk for the user: before each use check the general
 wear of equipment and, in case of doubt, contact an authorized ATK® dealer for a check-up or rapairation.
- The adjustment of the release systems must be performed by a dealer or technician specialized into skitouring bindings installation and adjustment, in particular equipped with all the machineries needed to test the correct adjustment of the release systems/values.
- The adjustment of the release systems, such as the adjustment of the binding positioning on the ski, must be performed exclusively with the boots that will be used with the binding.
- The adjustment value is valid only with the use of boots which have no additional contact points with the
 binding out of the two toe pins and the two heel pins, except for those bindings which offer the FREE-RIDE
 SPACER, even as an accessory: in this case, the spacer represents an additional contact point with the boot
 that, in case of perfect setting, does not modify the release performances of the binding.
- The use of a front ski-brake may modify the Mz release values of the binding: always set the binding when
 the brake is active in down-hill position, as show at paragraph 6.1, image 3.
- The ski structure may influence the release performance of the of the binding: in case of ski-exchange with new ones of a different model, it is necessary to control the adjustment of the release systems, and proceed with a new setting.
- Due to the fast variation of the environmental conditions (temperature, ice, dirt, water and debris)the
 release system adjustment may vary during the time; these variations may be also caused by a wrong or
 too long storage of the gear: after a very intense use, and anyway, each 2 months, the bindings adjustment
 must be checked by a specialized center for the release systems adjustment.
- A SELF MADE adjustment is highly un-recommended due to the high risk of errors raising from incompetence, incapacity or distraction, with consequent danger for the user.
- Any setting or adjustment performed by non-trained staff or by a non-specialized center may raise the risk
 of injuries for the user and cause the cancellation of the warranty on the product it-self.
- During transport (ex: car roof, backpack, bike etcetc) the bindings could be attacked by dirt or salt that
 may modify the correct functioning of the binding: always protect the bindings by these external agents
 during transport with adequate instruments.
- In up-hill mode these bindings are fully locked on the boot and do not provide any release function.
- Check that, once hooked the toe part, the pins are correctly inserted into their seats on the boot strongly
 moving the ski with the boot tip.
- Before performing a downhill please remember to place the toe locking lever in down-hill position. If this
 operation fails, in case of fall the binding cannot release the boot and the user could be seriously injured. A
 toe release with the front lever locked in up-hill mode would lead to heavy structural damages on the
 product, with consequent great danger for the user (please note point 6.3).
- Before each use check that the binding or other accessories do not have defective, worn or damaged parts, that the release system is perfectly working and that the bindings have not been contaminated by debris or ice/snow.
- Never use bindings with damaged parts: if there is any defective or broken part, or any doubt is raising in
 your mind in regards to the state of your bindings, immediately stop the use of the product and promptly

- reach the nearest authorized dealer in order to receive assistance and get a perfect solution for any of your doubts or damages and/or defects raised on the product.
- Before any use check that the bindings base surfaces are correctly fixed to the ski, that the screws are
 correctly tightened, and/or the ski-structure is not damaged but results completely flat in the mounting
 area in order to permit a perfect-support for the binding: if one or more of these events occur, it may cause
 structural damage to the bindings with consequent danger for the user or third parties.
- The use of a braking system is compulsory, in order to limit the risk of ski loss and/or create damages to
 goods or third parties. An alternative braking system is represented by the SBC02 KEVLAR® CORE LEASH.
- In case of deep fresh snow or hard snow, the efficiency of any SKI-BRAKE is very limited: in these snow conditions we suggest the use of a SBC02 | KEVLAR® CORE LEASH.
- Any MODIFY to components and NON-PROPER USE of ATK® bindings may invalidate the product
 warranty and increase the risk of injuries for the user and/or third-party.
- Use of non-original ATK® ACCESSORIES may cause damages to the bindings, user or third-party.
- Safely keep these user's guide and check it in case of any doubt.

3 MOUNTING AND SETTING

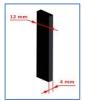


BUSHINGS COMBINATION FOR M05 JIG AND M05D INSERT:

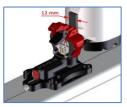
TOE: P1-P1-P1

HEEL: H-H-H-H

- The installation of any ATK* binding must be performed by an AUTHORIZED DEALER, equipped with all the tools needed to realize a state of the art installation, including the original ATK* drilling Jig (COD. MO5 or following) dedicated to the product that must be installed on skis; in case of MO5 drilling Jig use, you should mount the MO5A or MO5D back insert on the Jig and use the P1-P1-P1 bushings for the toe and H-H-H-H for the heel plate; always check the Jig user guide before performing any drilling operation.
- A self-made installation is <u>NOT</u> recommended due to the high-end technical abilities and knowledge needed to realize a state of
 the art installation and to the possible damages and/or risks rising from a wrong/un-perfect installation. In case that user
 overtakes the responsibility of a self-made installation, it is necessary to verify the presence in the box of the full list of parts
 listed at page 23 of this guide book; it is therefore possible to download a drilling template from the product web-page, print it
 and then follow all the connected instructions and recommendations.
- In both cases (installation provided by an authorized dealer or self-made installation), it's very easy to check the correct
 installing distance between the back metal insert of the boot and the vertical face of the heel part included in between the 2
 hooking pins using the 4 mm spacer provided with the binding, as shown in picture 1,2 and 3.







PICTURE 1

PICTURE 2

PICTURE 3

- A wrong setting distance in between boot and binding may create an early and sudden fail of the binding, creating irreparable
 damages to the ski/binding/boot system and/or eliminate/modify the release function in case of fall with consequential
 damages to the athlete and third parties.
- Always check that the penetrating length of the screws fits the depth of the drilled holes, and anyway with the height of the ski
 in the mounting area; otherwise, use proper screws or contact ATK® at info@atkrace.com.
- The binding must be installed only <u>ON NEW SKIS</u>, which present an absolutely flat mounting area and a structural reinforce for the screws tightening and anchoring.
- Each boot has its own substantial geometry: always use the boot used for installation, setup and check of the correct functionality of the binding in combination to the binding itself.

4 HOW TO ADJUST THE Mz and My RELEASE SYSTEMS.

MARNING! DANGER!

The ATK binding model <u>"R12 | 2.0" DOES NOT COMPLY WITH ANY DIN/ISO SAFETY STANDARD (in particular it does not comply with DIN/ISO 11088, nor DIN/ISO 13992).</u>

"R12 | 2.0" is anyway provided of adjustable release systems for the adjustment of the SIDE (Mz) and FRONT (My) release which, in case of perfect setting, may reduce the risk of injury for the limbs under the femur.

- The values shown by the setting scale must be considered as approximate: the real release value could significantly vary from that one displayed on the scale.
- The correct setting of the release systems Mz and My (side and front release) must be performed by
 a service center specialized in the touring binding setting and adjustment, in particular equipped
 with all the needed machinery to test the correct and real release value obtained as consequence of
 the setting.
- A self-made adjustment and/or performed by non-qualified technicians and/or performed without the help of the correct testing machinery is not recommendable.
- During down-hill skiing, the front lever must be placed in down-hill mode, as shown at paragraph 6.4:
 if not like that, the Mz release system would be fully disabled, with consequent higher risk of injuries for the user.
- The adjustment of the Mz release system must be realized through screwing and un-screwing the red
 metal screw shown by the arrow at PICTURE A (insert PH2, good quality). The set value is visible into the
 side window shown at PICTURE B. (ex. Value = 7)
- The adjustment of the My release system must be realized through screwing and un-screwing the top
 metal screw shown by the arrow at PICTURE C. The set value is shown by the yellow marker on the
 graduated scale. (ex. Value=12).







PICTURE B



PICTURE C

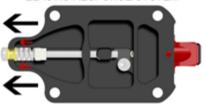
5 HOW TO SET THE HEEL POSITION ON THE ADJUSTMENT PLATE

MARNING! DANGER!

The binding model "R12 | 2.0" is provided with the "E.R.S." system (ELASTIC RESPONSE SYSTEM), developed to support an aggressive and heavy charge skiing style with an elastic response to compressions and jumps, improving the ski control, precision and flex performance.

"E.R.S." does not eliminate the need of a gap of 4 mm in between boot and heel: to respect the imposed distance is a compulsory point in order to miss undesired malfunctions and /or damages to the material, with consequent dangers for the user or third parties.

ELASTIC RESPONSE SYSTEM



 The adjustment of the heel part on the adjustment plate can be performed through the back screw, shown by the arrow at PICTURE D, by using a good quality PH2 insert.





The adjustment of the heel part must be done manually with a good quality insert: it is strictly forbidden to use an electric screw-driver, which use may lead to damage the screw head and/or to bring the system to over-range.

It's absolutely forbidden to use the binding with the heel part in over-range: never over-pass the "STOP" lines during the heel settings: in case of over-passing, the system could be damaged causing problems to the heel functioning and possible danger for the user.

The adjustment range is about 30mm: from the central position "0", the heel offers +17,5 and minus 12,5 mm, as shown at PICTURE E.



6 PRACTICAL USE INFORMATIONS

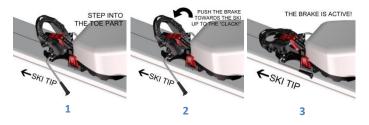
WARNING! DANGER!

- We highly recommend to strictly follow the operations described and illustrated in this chapter: a wrong comprehension or execution of these operations may raise the damages risk for the user. goods or third parties.
- Before performing any operation, always verify that boots and bindings are fully free from dirt, debris or any other entity which may modify the correct functioning of the system.
- Before performing any operation, always verify the correct functional state of the binding, such as the wear and tear of the complete binding system; in case of doubts regarding the perfect functionality of even one of the parts of the binding, immediately stop any use and reach the nearest Authorized Dealer for a deep check and eventual revision of any damaged part.
- These bindings include some springs-systems, some of which are really powerful; a non-voluntary activation of one or more of these spring-systems may lead to damages to the user or third parties; always handle the binding with care during any kind of operation.
- Keep away from children range.

6.1 | SKI-BRAKE ACTIVATION

The brake provided with R12 | 2.0 and the most of the brakes produced by ATK, are the only brakes which do not need to be switched-off during the up-hill, resulting always active and ready to brake the ski descent.

- 1. Hook the boot tip to the binding as described at paragraph 6.3 and 6.4 of this manual.
- 2. Push on the front part of the ski brake ("PUSH" zone) up to the stabilization of the mechanism.
- 3. Proceed to the up-hill mode or down-hill mode as described at paragraph 6.3 or 6.4.



6.2 MAGNETO® HEEL FLAPS





The "R12 | 2.0" heel parts are provided with permanent high-power magnets:

the use of this binding model is ABSOLUTELY FORBIDDEN to PACE-MAKER USERS, or any other system which could be damaged magnets.

The stabilization of the heel flaps is driven by a high-power magnetic system. This system, extremely light and reliable, grants to select the different raised position with the pole-tip or a soft touch of an hand.

The MAGNETO HEEL FLAPS system grants 5 different walking positions, two of which ready without turning the heel part:











6.3 | UP-HILL MODE

WARNING! DANGER!

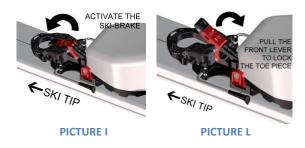
- In this modality, the toe part results FULLY locked on the BOOT tip: this means that in case of fall, avalanche or other unpleasant situations that may occur to the user, there will never be a separation between boot and binding, with high danger for the user that may be dragged down by an avalanche together with the skis, or receive damages in case of simple fall or accident.
- In case of experiencing a release of the boot while the binding toe part is set on the "UP-HILL MODE" as consequence of a strange happening/particularly high stress { fall, avalanche, slippage etcetc.... } immediately stop any use and reach the nearest Authorized Dealer for a deep check and eventual revision of any damaged part.
- During up-hill, an impact with foreign body or a particular happening may deactivate the up-hill
 locked mode, moving the front lever to the down-hill mode. This event creates a great danger for the
 user which may experience undesired pre-releases with consequent danger of fall or slippage, with
 possible damages to the skier it-self and/or third parties: frequently check the lever positioning
 during your activities.
- . Check that the heel lays in one of the positions shown at paragraph 6.2.
- Check that the toe is the same position shown at PICTURE F, ready to receive the boot; if not like that, manually press on the front lever in order to get the correct positioning of the toe.
- Move the boot tip towards the binding toe part, placing the 2 seats of the tech insert of the boot in correspondence of the hooking pins of the binding.
- From this position, vertically press the boot tip activating the binding closure over the boot. (PICTURE G/H).
- Rotate twice the boot tip on the toe part in order to check the correct connection between boot and binding (
 PICTURE H).
- Activate the front brake as described at paragraph 6.1.
- Slightly pull the front lever towards you up to the stabilization of the front lever on the blocked mode as shown at PICTURE I: in this way the toe release system will be disabled.



PICTURE F

PICTURE G

PICTURE H

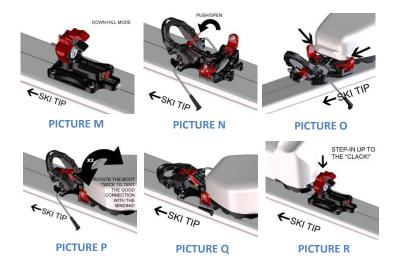


6.4 | DOWN-HILL MODE

↑ WARNING! DANGER!

- The correct use modality for the "DOWN-HILL MODE" is precisely reported at paragraph 6.4 of this
 "USER'S AND MAINTENANCE GUIDE BOOK"; this modality may perform a boot release in case of
 ruinous falls: it is STRONGLY NOT RECOMMENDED to SKI with other modalities different from those
 suggested!
- It stays under FULL RESPONSIBILITY OF THE USER to decide which use behaviour or use modality
 creates a lesser risk for its own and third parties safety, evaluating each single faced situation.
- While skiing in down-hill mode, an impact with foreign body or a particular happening may
 accidentally enable the up-hill walking mode, moving the front lever to the locked position. This
 event creates a great danger for the user because the binding will never release the boot in case of
 accident, with possible damages to the skier it self and/or third parties: frequently check the
 correct lever positioning during your activities.
- Check that the heel is in position as in PICTURE L.
- Check that the toe is the same position shown at PICTURE M, ready to receive the boot; if not like that, manually press on the front lever in order to get the correct positioning of the toe.
- Move the boot tip towards the binding toe part, placing the 2 seats of the tech insert of the boot in
 correspondence of the hooking pins of the binding. From this position, vertically press the boot tip
 activating the binding closure over the boot (PICTURE N/O).
- Rotate twice the boot tip on the toe part in order to check the correct connection between boot and binding. (PICTURE O).
- Activate the front brake as described at paragraph 6.1.

- Check that the toe front lever is UN-LOCKED for the down-hill position, as show at PICTURE 0; if not like
 that, slightly press the front lever in order to get the correct positioning, as shown at PICTURE 0.
- Press the boot heel towards the heel hooking pins, up to the full hooking as shown at PICTURE P.



6.5 HOW TO GET OUT FROM THE BINDING



WARNING! DANGER!

- Before proceeding with the opening operations, firmly keep with a hand the ski you are going to release from the boot in order to avoid an uncontrolled ski loss that would represent a great danger for the skier and/or third parties which may be hit by the ski.
- By the up-hill position, press on the toe front lever as show at PICTURE S, moving it to the down-hill position, shown at PICTURE T.
- . By the down-hill position, press again the toe front lever as shown at PICTURE T, in order to fully open the toe part and release the boot.
- Lift and rotate the foot tip moving the boot forward in order to get out from the heel part as shown at PICTURE U.







PICTURE S

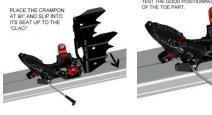
PICTURE T

PICTURE U

7 | HOW TO USE THE ATK CRAMPONS

WARNING! DANGER!

- The crampons must be used only in certain weather conditions; using crampons with wrong snow/ground conditions could damage the crampons or the binding and can cause risks of injury for the user and/or third parties.
- Do not force the crampon if not correctly placed in its slot.
- Manually enter the crampon in the opposite hook, positioning it at 90° on the ski, as shown at PICTURE V.
- Once correctly inserted, release the crampon, to obtain the position shown at PICTURE Z.





PICTURE V

PICTURE Z

8 | "R12 | 2.0" AVAILABLE ACCESSORIES

The ATK RACE® range is completed by a series of accessories that increase comforts and performances of our bindings; information, video tutorials and instructions at the webpage of the product.

9 CARE, MAINTENANCE AND STORAGE

- To preserve optimal performance of the product, including the release systems efficiency, it is highly
 recommended to periodically (EACH 3 MONTHS OF USE) lubricate the joints or rotation points with
 the ATK RACE® ORIGINAL GREASE (CODE SG01) , that can be purchased in any of our AUTHORIZED
 DEALERS. Grease and maintenance user's guides are available on www.atkrace.com, at the respective
 product webpage.
- After a medium to long inactivity period is necessary to check the status of general wear and tear of the binding and the correct lubrication of the product.

- Carefully clean the binding after each use with distilled water from dirt, salt, sand or debris; do not use spears or harsh chemical solvents.
- Please keep the ski with closed binding in order to preserve the elasticity of the springs in a dry and protective place; avoid excessive heat.
- Do not make modifications or tampering to the bindings, penalty the cancellation of the warranty; these
 actions could even compromise the functionality of the product and increase the risk of break or injury
 for the user and/or third parties.
- Within 4 years after purchasing the product, and then every two years, it is necessary to have an
 OFFICIAL ATK RACE® CHECK in order to check worn or damaged parts, and where is necessary to
 SERVICE the product with an official REVISION.

Contact an ATK AUTHORIZED DEALER to get infos regarding timing and method of revision.

10 ATK WARRANTY TERMS

ATK® guarantees that the product is free from manufacturing or material defects for a period of two years (2) (pursuant to Italian Legislative Decree n. 24/02) starting from the date of purchase throughout an authorized dealer of ATK® products. The effective date of the warranty must be supported by the proof of purchase: without the original proof of purchase, the temporal effect will start from the day when the product has left the ATK® warehouses.

The 24 months warranty (pursuant to Italian Legislative Decree n. 24/02) is applied to each product which represents a conformity defect, even if used correctly, respecting it's intended destination of use and all the elements present in the provided documentation for the use explanation.

This warranty, in accordance with Italian Legislative Decree n 24/02, is granted only to Privat consumers (a person who buys goods for purposes not related to his professional activity, or making a purchase without indicating a reference to VAT).

Known that the ATK bindings are NOT CERTIFIED by any certification institute, since they DO NOT COMPLY WITH ANY DIN/ISO SAFETY STANDARD, the warranty is not valid in case of:

- Wrong installation or installation performed by a non ATK authorized subject;
- Inappropriate use;
- Lacking periodical maintenance as stated in this user guide;
- Carelessness:
- Inexperienced use:
- Modifications applied without the producer authorization;
- Purchase through a non-authorized Dealer:
- Purchase by a non-original subject;
- Overuse.

ATK® does not recognize other express or implied warranties other than those specified in this paragraph and does not recognize damages raising by:

- Wrong mounting:
- Standard wear and tear, including chipping:
- Wrong set up;
- Use in combination with non-adequate gear per definition or due to wear and tear;
- Use in combination with boots non complying with the required standard;
- Impacts or collisions with foreign bodies;

- prejudices not directly and necessarily related to the product;
- prejudices connected to the non-complying to any DIN/ISO safety standard;
- prejudices anyway avoidable with due caution required by the raw mountain environment with low urbanization:
- prejudices increased by the damaged subject behaviour.

For a warranty activation – which may involve a choice of ATK to substitute or repair the product – the costumer must reach one of the ATK AUTHORIZED DEALERS, and in case that all the warranty conditions will be satisfied, a warranty operation will be activated.

In case that the application of the ATK WARRANTY PROCEDURE requires the entire return of the product, the product itself must be returned inside the original box, complete in all its parts.

No refund can be asked to ATK for eventual delays for the service operations under warranty conditions. The "DEMO/TEST" bindings are intended for an unusual and particularly intensive use, which may modify the lasting performance of the product, accelerating the wear and tear of the product it self. The warranty period on the "DEMO/TEST" products is reduced to one (1) year after the purchasing date;

Free-of-charge or loan of use products are fully excluded by any warranty application.

For any further information and/or clarification regarding the functionality of the products and the activation of the warranty operations, please contact the ATK® SERVICE TEAM at:

service@atkrace.com

11 LIMITATION OF LIABILITY ON THE PRODUCT

MARNING! DANGER!

The user itself is fully aware that – due to the high performance features and the need of an extreme weight save – the ATK bindings

DO NOT COMPLY with any DIN/ISO SAFETY STANDARD

nor DIN/ISO 11088,nor DIN/ISO 13992.

By purchasing such products in a conscious and informed way as provided by the "USER'S AND MAINTENANCE GUIDE BOOK" of the product it-self, the user expressively accepts without any reserve all the risks arising from the characteristics of the products themselves, relieving ATK as the producer by any reliability issue regarding eventual damages caused to the user or third parties during the use of the product itself.

ATK RACE S.r.l. communicate that the pictures and descriptions included in this catalogue are indicative; ATK RACE® S.r.l. reserve the right to modify or delete each product or process described in this user instructions manual.





(ITA) MANUALE D' USO E MANUTENZIONE

RAIDER 12 | 2.0 (M.Y. 2018) - 350 GRAMMI

