

DMM Belay & Abseil Devices - General User Instructions

Product Description: DMM Belay & Abseil Devices for Mountaineering and Related Activities.

- These instructions cover the use of all DMM belay/abseil devices for use in mountaineering and related activities (Bug, Bugette, Chicane, Figure of Eight, Anka, and Cardiac Arrestor) ref. (4) and (15) below.
- IMPORTANT:** immediately before use visually inspect to ensure that this product is in a serviceable condition and operates correctly. We recommend a thorough inspection at least once a year by competent person. This may be the manufacturer. This inspection should be recorded on the Inspection Form supplied.
- WARNING: IF YOU ARE IN ANY DOUBT WHATSOEVER ABOUT THE SAFE CONDITION OF THIS PRODUCT REPLACE IT IMMEDIATELY.**
- This product may be used in conjunction with any appropriate item of Personal Protective Equipment relevant to European Union Directive 89/686/EEC.
- Ensure that the instructions for other components used in conjunction with this product are complied with. It is the user's responsibility to ensure that he /she understands the correct and safe use of this product.
- This product is designed for rock climbing and mountaineering in normal climatic conditions.
- The user is advised that the strength of any rock anchorage point (belay) natural or unnatural cannot be guaranteed as safe and therefore good judgement by the user is a necessity in order to obtain adequate protection.
- Positioning of the rock anchorage point is crucial for safe fall arrest and this must take into account the fall distance including rope stretch so that obstructions (such as the ground) may be safely avoided.
- Lives may depend upon your equipment. The user should be fully aware of its history (use, storage, inspection etc.). If this equipment is not for personal use, (e.g. used in mountaineering centres) we strongly recommend a systematic approach to record keeping. This should be carried out by a competent person.
- No responsibility will be accepted by DMM for damage, injury or death resulting from misuse.
- No special transportation precautions are necessary; however, avoid all contact with chemical reagent or other corrosive substances.
- Maintenance and Service Instructions.

NOTE: This product is not user maintainable with exception of cleaning as detailed below. This product does not need to be and should not be lubricated.

12.1 Cleaning: If soiled rinse in clean water of domestic supply quality (maximum temperature 40°C) with mild detergent at appropriate dilution (pH range 5.5-8.5). Wipe off excess moisture with a clean cloth and then dry naturally away from direct heat.

NOTE: Cleaning is recommended after every use in a marine environment.

12.2 Disinfection: Disinfect using a disinfectant containing quaternary ammonium compounds reinforced with chlorohexidine (e.g. Savlon) in sufficient quantities to be effective. Soak the product for 1 hour at dilution's recommended for general use using clean water as per (12.1) not exceeding 20°C then rinse thoroughly as per (12.1).

12.3 Storage: After any necessary cleaning store unpacked in a cool, dry, dark place in a chemically neutral environment away from excessive heat or heat sources, high humidity, Sharp edges, corrosives or other possible causes of damage. Do not store wet.

12.4 Lifespan: It is very difficult to estimate this due to local use and storage conditions but a conservative estimate would be 10 years from the date of first use. However the following may reduce lifespan to as little as one use: Corrosion / General Wear / Fall Arrest / Chemical Contamination / Mechanical Deformation / Distortion / Frayed Wire / Heat Contamination (over normal climatic conditions) / Rock Abrasion & Internal/External Abrasion of the device.

13. European Union Type Examination: EU type examination for this product is carried out by Notified Body No; 0120:- SGS (UK)Ltd., Worle Parkway, Weston-Super-Mare, Somerset, BS22 6WA, UK.

14. Explanation of Markings: In addition to the general information accompanying this product the following information is marked on it.

DMM Wales - Name of manufacturer and country of origin.

AAA - ZZZ - Sequential Batch Code for traceability.

15. General information on the use of DMM Belay/Abseil Devices.

15.1 General Application of DMM Belay and Abseil Devices.

The devices shown in diagram (1) to (6) can be used for belaying and abseiling. We recommend the wearing of appropriate gloves when using the techniques described in these instructions. Always maintain a firm grip with the control/brake hand (see diagram 7).

a) A full understanding of the techniques involved is vital. If in any doubt seek the advice of a trained and competent person.

b) Always ensure that anchorage points are secure and appropriately positioned, whether they are natural or artificial.

c) Ensure correct attachment to the harness (see harness manufacturer's instructions).

d) Ropes should conform to EN892 (dynamic ropes for belaying and abseiling) or EN1891 (low stretch ropes for abseiling only).

WARNING: USE ONLY LOCKING CARABINERS FOR ATTACHMENT WITH THESE DEVICES. Carabiners/connectors should conform to EN12275 (Mountaineering) or EN362 (Work at Height). We recommend the use the DMM Belay Master carabiner for belaying and abseiling.

15.2 Belay Devices: (see diagrams 1-3). Belaying is the fundamental technique used for controlled protection of you and your climbing partner during climbing and mountaineering. The belay device is a frictional device used in conjunction with a rope or ropes.

WARNING: Belaying your climbing partner whether on an indoor climbing wall or on a Himalayan mountain carries the same consequences if practised incorrectly, i.e. serious injury or death. It is vital to you and your climbing partner's safety that special care and attention is paid to the following:

a) Always pay attention to your leader while they are climbing so that you can react quickly to any changing situation.

b) Note that smaller diameter ropes create less friction, feed through the belay device more quickly and are more difficult to control.

c) The Bug can be used with a single rope of diameter 8.9mm - 11mm (see diagram 8) and double/twin ropes of diameter 8.5mm - 11mm (see diagram 9).

d) The Bugette can be used with a single rope of diameter 8.9 - 9.5mm and double/twin ropes of diameter 7.5mm - 9mm. It has a standard friction mode (see diagram 10) and lower friction mode (see diagram 11).

e) The Chicane has tapered jaws which allows it be used with a wider range of rope diameters; single rope 8.9mm - 11mm (see diagram 12) and double/twin ropes 7.5mm - 11mm (see diagram 13).

f) All these belay devices can be used for abseiling (see diagrams 14 and 15). See 15.3 below.

15.3 Abseil Devices (for Descending/Rappelling): (see diagrams 4-6). Abseiling involves the controlled descent in conjunction with a rope down an artificial structure, rock or cliff face.

WARNING: Abseiling (Descending/Rappelling) is potentially one of the most hazardous techniques used in rock climbing and mountaineering. It is vital to your safety that special care and attention is paid to the following:

a) The rope used is long enough to reach the next secure anchorage point or the ground.

b) Ensure that the abseil device you have chosen is compatible with and safe to use in conjunction with the type, number and diameter of rope(s). This should be proven by practice in a safe environment.

c) The Figure of Eight has a standard friction mode (see diagrams 16 and 17) and a high friction mode (see diagram 18).

d) The Anka figure of eight has 'wings' to prevent inadvertent locking of the rope (see diagram 19).

e) Due to its curved shape the Cardiac Arrestor has a standard friction mode (see diagram 20) and a high friction mode (see diagram 21).

f) Avoid cross-loading the carabiner (see diagrams 22 and 23).

g) Abseiling at high speed will cause heating of the device and rope. This may result in loss of control or injury (see diagram 24).

h) Pay attention to ensure that items such as hair or clothing do not get caught in the device (see diagram 25).

i) The Figure of Eight can also be used as a belay device (see diagrams 26 and 27).

REMEMBER: IF IN DOUBT SEEK THE ADVICE OF A TRAINED AND COMPETENT PERSON.

NOTE: These instructions and information are designed to cover the requirements of annex 11b of European Union Directive 89/686EEC relating to Personal Protective Equipment (PPE). Some of the information hereon may seem irrelevant but we are required under the aforementioned Directive to provide this information to the user of this product.

EN -PRIOR TO USE THE USER IS OBLIGED TO COMPLETE THE FOLLOWING INFORMATION - User's Name: Place of Purchase: Date of Purchase: Date First Used.
FR -COMPLÉTER OBLIGATOIREMENT LE BULLETIN CI-APRÈS L'EMPLOI - Nom: Point D'Achat: Date D'Achat: Date du Premier Emploi.
DE -VOR GEBRAUCH SIND VOM ANWENDER FOLGENDE ANGABEN ZU MACHEN - Name des Anwenders: Gekauft Con: Kaufdatum: Datum der Ersten Benutzung.
NL -VOORDAT HET IN GEBRUIK WORDT GENOMEN, IS DE GEBRUIKER VERPLICHT DE VOLGENDE GEGEVENS IN TE VULLEN - Naam van Gebruiker: Plaats van Ankoop: Datum van Ankoop: Datum Eersmalig.
DK -FORINDEN ANVENDELSEN SKAL BRUGEREN AFGIVE NEDENSTAENDE OPSLYNGINGER - Brugerens Navn: Indkøbssted: Indkøbsdato: Dato for Første Anvendelse.
NR -FØR BRUK MÅ BRUKEREN FYLLE UT SKJEMAET NEDENFOR - Brukers Navn: Kjøpssted: Kjøpsdato: Tatt i Bruk (Dato).
SE -FÖRE ANVÄNDNING SKA ANVÄNDNAREN Fylla I NEDANSTAENDE - Användningsdatum: Inköpsdatum: Inköpsställe: Första användningsdatum.
IT -PRIMA DELL USO, L'UTENTE HA L'OBLIGO DI COMPILARE LE INFORMAZIONI SEGUENTI - Nome di Utente: Luogo di Acquisto: Data di Acquisto: Data di Primo Impiego.
ES -ANTES DE UTILIZAR, EL USUARIO DEBERA RELLENAR LA INFORMACION SIGUIENTE - Nombre del Usuario: Lugar de Compra: Fecha de Compra: Fecha del Primo Uso.

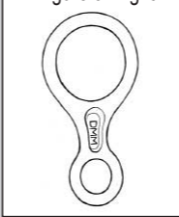
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FR -Date Contrôle	FR -BULLETIN DE CONTRÔLE Observations/Actions	FR -ACCEPT? (oui/Non)	FR -Signature
DE -Inspektions-datum	DE -INSPEKTIONSFORMULAR Kommentar/Maßnahmen	DE -BESTANDEN? (Ja/Nein)	DE -Unterschrift
NL -Inspectiedatum	NL -INSPECTIEFORMULIER Commentaar/Gedaan	NL -GOEDGEKEURD (Ja/Nein)	NL -Paraaf
DK -Dato for Inspektion	DK -INSPEKTIONSSKEMA Bemærkninger/Aktion	DK -GODKENDT? (Ja/Nej)	DK -Underskrift
NR -Kontroll Utført	NR -KONTROLLSKJEMA Kommentarer/Tiltak	NR -GODKJENT? (Ja/Nei)	NR -Signatur
SE -Inspektionsdatum	SE -INSPEKTIONSFORMULÄR Kommentar/Åtgärd	SE -GODKÄND? (Ja/Nej)	SE -Signatur
IT -Data di ispezione	IT -MODULO DE INSPEZIONE Commenti/Azione	IT -REGOLARE? (Si/Non)	IT -Firma
ES -Fecha de Inspección	ES -HOJA DE INSPECCIÓN Comentarios/Acción	ES -¿APROBADO? (Si/Non)	ES -Firma

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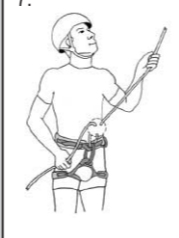
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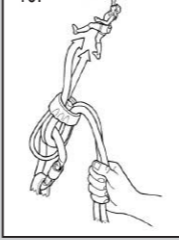
4. Figure of Eight



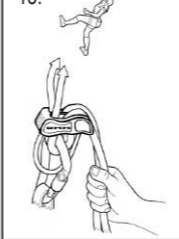
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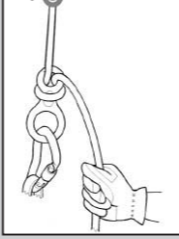
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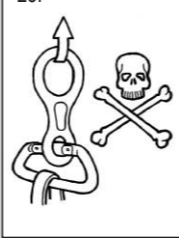
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18.



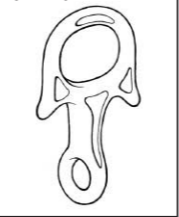
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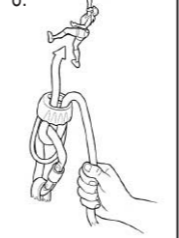
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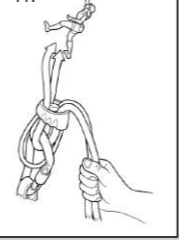
5. Anka



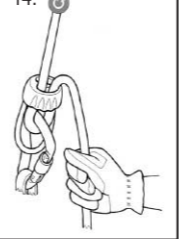
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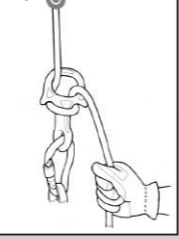
11.



14.



19.



24.



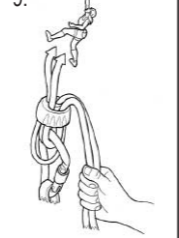
3. Chicane



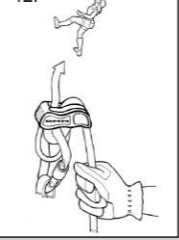
6. Cardiac Arrestor



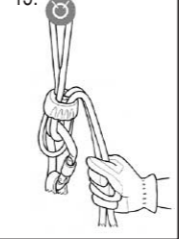
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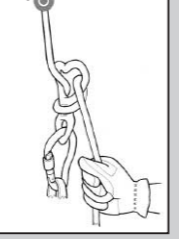
12.



15.



20.



25.

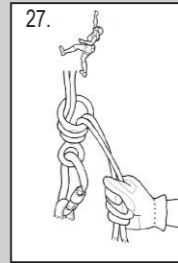
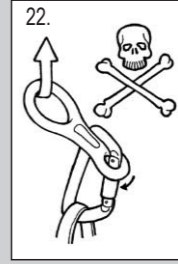
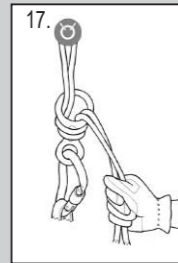
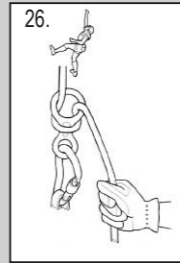
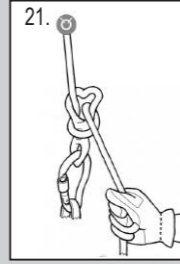
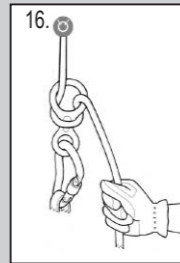


FR: Attention danger! L'escalade, l'alpinism, et autres activités connexes, sont par nature dangereuses. Toute personne utilisant cet équipement se doit d'apprendre et de mettre en pratique les techniques propres à l'utilisation sans danger de l'équipement pour les besoins auxquels il est destiné. Elle se doit aussi de prévoir et d'agir comme il le faut dans des situations où le secours tre nécessaire. Mme l'emploi correct et la bonne maîtrise du matériel et des techniques peuvent résulter à des conséquences fatales. L'utilisateur assume tous les risques et l'entière responsabilité à l'égard de tous les dégâts ou blessures résultant de l'emploi de ce matériel. Il est impossible de traler par les présentes toutes les méthodes d'emploi. Les instructions et schémas ci-après indiquent-certaines bonnes et mauvaises méthodes d'utilisation. Rien ne remplace une bonne formation par une personne qualifiée et compétente.

DE: Achtung! Felsklettern, bergsteigen und verwandte tätigkeiten sind von natur aus gefährlich. Es liegt in der eigenverantwortlichkeit jeder person. Die die ausrüstung, Benutzt, die entsprechenden. Richtigen techniken zu lernen und auszuüben. So daß die ausrüstung für ihren bestimmten zweck und in möglichen rettungssituationen sicher angewendet wird. Selbst die richtige anwendung von ausrüstung und techniken kann tödliche folgen haben. Der anwender dieser ausrüstung trägt alle risiken und die volle verantwortung für jeden und alle schäden oder verletzungen. Die eventuell aus ihrer verwendung resultieren. Die folgenden anleitungen und pictogramme zeigen einige der häufigsten richtigen und falschen anwendungsmethoden. Nichts ist besser, als von einer geschulten und kompetenten person in der anwendung unterwiesen zu werden.

NL: Waarschuwing! Rotsklimmen, bergsport en aanverwante activiteiten houden gevaaren in. Het is de verantwoordelijkheid van eenieder die dit materiaal gebruikt om goede technieken voor het veilige gebruik van dit materiaal en voor het beoogde doel te leren en in praktijk te brengen en om in situaties waarin een reddingsoperatie nodig is. Vooruit te zien en de juiste acties te ondernemen. Zelfs als de uitruising en technieken op de juiste manier worden gebruikt, kunnen fatale ongelukken voorkomen. Personen die deze ultrusting gebruiken nemen. Daarmee alle risico's en verantwoordelijkheden op zich voor eventueel letsel dat het gevolg kan zijn van het gebruik daarvan. Het is onmogelijk om alle methoden van gebruik te behandelen. De volgende instructies en beelden geven slechts enkele van de veel voorkomende juiste en onjuiste methoden van gebruik k. Niets kan de plaats innemen van lessen door een getrainde en vaardige persoon.

DK: Advarsel! Klippeklättring, bjergbestigning og lignende sports-grene er i sig selv farlige aktiviteter. Personer, som benytter dette udstyr, er selv ansvarlige for at lære og på sikkert vis øve sig i de korrekte metoder til brug af udstyret til det tiltænkte formål. Samt at forudse og træffe de rette forholdsregler, i tilfælde der skulle opstå en redningssituation. Selv korrekt anvendelse af udstyret kan medføre livsfare og død. Enhver person som anvender dette udstyr paatager sig al risiko for enhver form for skade, herunder personskade, som maatte opstaa som følge af dets brug. Det er umuligt at dække alle anvendelsesmaader. Følgende instruktioner og illustrationer viser nogle af de almindeligste former for korrekt og ukorrekt brug. Der findes ingen erstatning for undervisning af en uddannet og kompetent person.



NR: Advarsel! Klippeklättring, fjellklättring og lignende aktiviteter inneberer av naturlige årsaker fare. Det påhviler enhver bruker av dette utstyret at de lærer og følger sikre teknikker for korrekt bruk av utstyret. Og at forutset og tar nødvendige forhold-regler i situasjoner hvor det kan bli nødvendig å redde noen. Personer som benytter dette utstyret påtar seg all risiko og har det hele og fulle ansvar for enhver ting. Eller personskade som kan oppstå som følge av bruk av utstyret. Det lar seg ikke gjøre å gi en fyldestgjørende beskrivelse av hvordan utstyret brukes her. Anvisningene og pictogrammene nedenfor viser imidlertid noen av de vanligste bruksmåtene - både riktige og uriktige - som forekommer. Instruksjoner kan aldri erstatte opplæring av en kompetent person med den rette faglige bakgrunnen.

SE: Varning! Klättring i klippor och bergklättring samt relaterade aktiviteter är av naturliga skäl farligt. Varje person som använder denna utrustning är skyldig att lära sig tillämpa rätt teknik i användningen av denna utrustning för det ändamål den är ämnad på ett tryggt sätt och att förutse situationer där räddning kan behövas och skrida till riktiga åtgärder. Även korrekt användning av utrustning och tekniker kan resultera i ödesdigra konsekvenser. Person som använder denna utrustning. Påtar sig risken för ena och alla skador som kan uppkomma som konsekvens av användning. Det är omöjligt att ta upp alla användningsmetoder. Följande instruktioner och pictogram visar några vanliga korrekta och inkorrekt användningssätt. Inga instruktioner kan ersätta erfarenheten hos en utbildad och kompetent person.

IT: Avvertimento! Lo sport di rocciator, l'alpinismo e le attività analoghe sono di per se pericolose. È responsabilità di chiunque usi questa attrezzatura di imparare e fare pratica con le tecniche adatte per il uso in modo sicuro per gli scopi per i quali è stata progettata e prevedere e prendere le misure adeguate in caso di situazioni qui sia necessario essere soccorsi. Anche l'uso corretto delle apparecchiature e tecniche potrà risultare in fatalità. Ogni individuo che usi questa apparecchiatura si assume tutti i rischi e tutta la responsabilità per ogni danno e infortunio qualsiasi che possa risultare da tale uso. Non è ipotizzabile includere tutti i metodi di impiego. Le Istruzioni e i pictogrammi seguenti illustrano alcuni dei metodi d'uso comuni corretti e incorretti. Si consiglia, sopra ogni altra considerazione, l'istruzione da parte di una persona addestrata e competente.

ES: ¡aviso! La escala, el alpinismo y demas actividades relacionadas son inherentemente peligrosas. Es responsabilidad de todapersona que utilice estos equipos el aprender y practicar las técnicas apropiadas de uso de los equipos para sus fines designados en forma segura y actuar en situaciones en donde pudiera precisarse rescate. El uso correcto del equipo y de las technicas tambien puede resultar en accidentes fatales. Aquellos que utilicen este equipo asumen todos los riesgos y responsabilidad total por cualquier y por todos los da-os o lesiones que puedan resultar de su uso. Es imposible cubrir todos los metodosde uso. Las instrucciones y pictogramas siguientes muestran algunos de los metodos comunes tanto correctos como incorrectos de uso. Sin embargo, la mejor instruccion es la impartda por una persona adiestrada y competente.

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LL55 4EL

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LLANBERIS, GWYNEDD,

DMM

DMM ABSEIL & BELAY EQUIPMENT

F304/QA/8/Jul. 2011

These instructions must be read and understood before the equipment is used.

Please retain this information for future reference.



EN: Warning! Rock climbing, mountaineering and related activities are inherently dangerous. It is the responsibility of any person using this equipment to learn and practice the proper techniques for use of the equipment for its designated purposes safely and to foresee and take appropriate action in situations where rescue may be required. Even the correct use of equipment and techniques may result in fatal consequences. Any person using this equipment assumes all risks and full responsibility for all damages or injury which may result from the use of it. It is impossible to cover all methods of use. The following instructions and pictograms show some of the common correct and incorrect methods of use. There is no substitute for instruction by a trained and competent person.

