

# ATTO

ANVÄNDAREHANDBOK

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[movinglife.com](http://movinglife.com)

*movinglife*<sup>™</sup>



VÄLKOMMEN TILL ATTO!

Avsiktligt tomt

# VÄLKOMMEN!

Tack för att du valt ATTO från Moving Life.

Moving Lifes uppdrag är att skapa förstklassiga produkter och tjänster för personer med nedsatt rörlighet. Skapad av professionella i samarbete med brukare, ATTO kommer att bli en förlängning av din kropp, en viktig del av ditt liv. Därför har vi lagt mycket möda att designa och tillverka var och en av produktens över 500 delar, vilket vi hoppas du kommer att uppskatta. Vi är dock bara människor och hoppas därför att du kontaktar oss med kommentarer eller idéer om hur vi kan förbättra och utveckla ATTO. Vänligen registrera ditt innehav på vår hemsida och ge oss din återkoppling via vår sida.

Vi hoppas du trivs med din ATTO!

## REGISTRERA DIG NU

Vänligen besöka sidan för att registrera din ATTO. Vi kommer att skicka dig säkerhetsuppdateringar och annan information som kan underlätta livet med ATTO.

[www.movinglife.com/register](http://www.movinglife.com/register)

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# INNEHÅLLSFÖRTECKNING

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Avsiktligt tomt

# INLEDNING

## Viktig notis

Denna handbook innehåller information som ägs av Moving Life Ltd. Den delas ut endast för att hjälpa personer som brukar Moving Life Ltd. produkter.

Handboken är avsedd att följa med ATTO Mobility Scooter.

Innehållet får inte användas i andra syften, eller spridas eller kopieras utan uttryckligt skriftligt tillstånd från Moving Life Ltd.

Texten och figurerna är endast till för förklaring och referens. De underliggande specifikationer kan ändras utan föregående underrättelser.

## Varumärken

ATTO är ett registrerat varumärke som tillhör Moving Life Ltd.

Andra bolags namn och varumärken kan användas som del av underlaget och förblir varumärken eller registrerade varumärken som tillhör respektive ägare. Data kan ändras utan föregående underrättelse.

Produkten är täckt av en eller flera patent eller patent ansökningar som tillhör Moving Live, Ltd.



I USA kan produkten endast användas efter förskrivning av läkare.

## Vem är produkten till för?

Moving Life ATTO Mobility Scooter är en inomhusscooter i första rum till för personer med nedsatt rörlighet.

## Brukare

En trehjulig scooter med elmotor är en batteriförsedd medicinskt teknisk anordning som används för förflyttning av personer med nedsatt rörlighet.

ATTO är avsedd för personer med skador, funktionsnedsättning eller diagnoser som innebär att de inte kan gå eller har svårigheter med gående.

Dessa brukare bör undersöka synen, balans och reaktionsförmåga, förmågan att sitta under längre perioder, koncentrationsförmåga och förmågan att kunna stiga av och på scootern, Brukare måste kunna bedöma avstånd, känna igen hinder och faror, och kunna se fotgängare, cyklister och andra som delar gångbanan och vägarna.

Brukaren är den personen som kör ATTO, och som kan få hjälp av en assistent med hur man öppnar och viker ihop scootern,

## Brukare och tekniker



Detta stycke har information som måste läsas av brukare och tekniker.

Denna handbok innehåller viktig information om hur man använder produkten på ett säkert sätt. ANVÄND INTE produkten utan att ha först last och förstått denna handbok och övrigt information som medföljer scootern. Om du har svårt att förstå handbokens varningar och instruktioner, be en person från vården, en auktoriserad butik eller tekniker innan du försöker använda scootern: annars kan personer eller egendom skadas

**Scooteranvändare:** använd inte denna produkt utan att ha tagit del av anvisningen. Om du inte kan förstå ritningarna och varningarna, kontakta Moving Life teknisk support innan du använder eller underhåller produkten, annars finns risk för skador. Arbeten som inte beskrivs i denna handbok måste utföras av auktoriserade tekniker. . Procedures other than

**Moving Life Auktoriserade Tekniker:** utför inte service utan att ha först last och förstått Handboken och Servicemanualen. Om du inte förstår ritningarna och varningar mm, gör inget utan att första ha kontaktat Moving Lifes teknikavdelning. Annars rinns risk för skador på egendom eller personer. –

 **NOTE**

Denna Handbok bygger på den mest aktuella uppsättning specifikationer och information vid trycket. Vi behåller rätten att ändra Handboken alltefter förändringar blir aktuella. Löpande förändringar i produkten kan leda till små avvikelser mellan bilderna och texten i denna bruksavisningen och den produkt som du har köpt.

## BAKGRUND

Moving Life's ATTO är en hi-tech Class A rörlighets scooter, avsedd för bruk inomhus och på trottoar med lera ytor. När du kör på en trottoar ska du följa reglerna för gående. Du måste ge gångtrafikanter förtur, särskilt unga och personer med nedsatt hörsel som kanske inte är medveten om att du är i närheten.

I vissa länder får scooter användas endast av personer med funktionsnedsättning eller en person som demonstrerar scooters funktion hos butik, eller som utbildare brukaren eller som tar scootern till eller ifrån lagning eller service. Person med nedsatt funktion är en person med skada, fysisk handikapp eller tillstånd som gör att de inte kan gå eller har svårigheter när de ska gå.

Om du använder elscooter för första gången, eller har gått lång tid sedan du körde sist, vill vi starkt rekommendera att du får utbildning i hur man styr och kontrollerar fordonet, speciellt på ojämna underlag. Du borde låta kontrollera din syn, reaktionsförmåga, förmågan att sitta upprätt under längre perioder, koncentrationsförmåga och förmågan att stiga av och på scootern. Du bör kanske också gå igenom dina färdigheter som förare.

Även om de flesta länder inte ställer krav på synskärpa, bra seende är ett villkor för att kunna föra fordonet med säkerhet. Du bör kunna bedöma avstånd, se hinder och faror och kunna se fotgängare och andra brukare på vägen. Dålig syn kan bidra till olyckor och skador och du kan också vara ansvarig för sådana händelser. Tänk på att din syn förändras och kan försämrans utan att du är medveten om försämringen.

Om du är blind eller en diagnos på synskada bör du inte köra elscooter, för du kan skada både dig själv och andra. Om du har nedsatt syn bör du diskutera

saken med en optiker eller ögonläkare innan du kör elscooter.

Om du regelbundet tar medicin som gör dig sömning bör du fundera på om du kan säkert framför elscooter i trafiken. Om du är tveksam, diskutera saken med vården. Du bör inte använda scooter om du har druckit sprit.

Elscooters får framföras på gångbanor, vägbanor, stigar och på platser där fotgängare går. Den får användas på vägbana om gångbana inte finns eller när det behövs för att korsa en gata.

Beroende på plats och lokaltrafikens regler: du får framföra scootern i kollektivtrafikens bussar, spårvagnar och tunnelbanevagnar, förutsatt att scootern får plats.. Reglerna för tåg kan skilja sig hos de olika operatörerna. Flygtrafiken följer i regel IATA reglerna, vilka tillåter elscooter som bagage, men du gör klokt i att tala med flygbolaget i god tid innan avresa.



Lagar och regler kan skilja sig mellan olika städer och olika länder. Kontrollera alltid regelverket innan du kör scootern på en ny ort, och ta reda på ev regler som du måste följa.

## Godkännanden

ATTO Mobility Scooter uppfyller kraven i följande standard för medicinskteknisk utrustning och säkerhet:

EN 12182 och ISO 7176-15

EMC: ISO 7176-21

Risk Management: ISO 14971

Regelverk: EEC: Annex V of 93/42/EEC



EU direktivet för medicinskteknisk utrustning 93/42/EEC klassar ATTO Mobility Scooter som en klass I anordning.

# SÄKERHET

## Viktiga punkter



En elscooter är ingen leksak och bör inte framföras av barn, om de inte hör den avsedda brukareklassen som definieras i denna handbok.



En elscooter får inte användas för uppvisningar eller show, eller annat bruk än det avsedda. Den får endast framföras i områden där fotgängare får gå och på ytor som tillåter säkert bruk och god kontakt med underlaget.



Se upp med snö, is, regn, hagel, starka vindar, sand och andra hinder. Allt detta och annat som skiljer sig från vanligt underlag måste undvikas för att förhindra skador.



Försök inte att köra upp eller nedför vinklar som överskrider de som rekommenderas i denna handbok. Se Specifikationer i denna handbok.



Kör upp och nedför lutning rakt upp eller ned.



Läs igenom och förstå de följande varningarna.



Första gångs användare. Använd inte din scooter innan du läst och förstått denna Handbok.

## Säkerhet och bruksanvisningen

DISCLAIMER: Moving Life Ltd. är inte ansvarig för skador på personer eller egendom som uppstår som en följd av oriktig och oförsiktig användning av Moving Lifes produkter. Moving Life uttryckligen förnekar ansvar för skador som kan uppstå om scootern inte framförs i enlighet med nationella eller lokala lagar och förordningar.

## Förstagångs användare

- Använd inte denna produkt eller tillbehör utan att först ha last och förstått anvisningen. Om du inte förstår varningarna eller instruktioner, se till att kontakta en person inom vården eller en auktoriserad Moving Life återförsäljare eller tekniker innan du använder redskapen. Att inte göra så kan leda till skador på personer eller egendom.
- Vissa tillstånd, inklusive medicinska tillstånd kräver att brukaren måste öva med scootern tillsammans med en tränare som kan vara förskrivare eller annan vårdpersonal. En utbildad tränare kan vara en familjmedlem eller en vårdpersonal som utbildats i hur man använder scooter i olika situationer. Diskutera med din läkare om du tar medicine, så att du vet om medicinerna kan påverka din förmåga att framföra scootern på ett säkert sätt.
- Om du känner dig obekvämt med din nya scooter eller inte förstår anvisningen, eller av andra skäl inte tror att du klarar av att vika ut, vika ihop, eller

använda eller framföra scootern bör du tala med vårdpersonal, din tränare eller med Movings Lifes återförsäljare eller tekniker.

## Generellt

- Stäng av scootern när den inte är i bruk.
- Se till att sitsen är fullt utvikt och låst innan du kör scootern.
- Sitt alltid när du använder scootern.
- Var extraförsiktig när du åker på ojämna underlag, grus eller gräs.
- Se upp på upphöjda ytor som inte har skyddsräcke.
- Skarpa svängar kan välta scootern. Undvik denna risk genom att ta vida svängar kring hörn och hinder. Dra ner farten när du svänger.
- För nödstopp, tryck på På/Av knappen.
- Försök inte att köra över hinder högre än 20 mm och 18 mm när du backar. Det finns risk att du välter eller skadar scootern. (3/4") when driving forward and 18 mm (45/64") when driving in

- Stäng inte av scootern under färd. Att göra så orsakar en tvärstopp.
- Försök att inte sträcka dig eller böja dig när du kör. Du kan oavsiktligt komma åt tumgasen, eller välta scooterna oavsiktligt. Försök alltid att hålla dig centrerad för att minska tippriksen.

## Köra på offentliga platser

- Undvik trafiken och kör inte scootern på allmänna vägar.
- Tänk på att andra trafikanter kan ha svårt att se dig när du sitter på scootern. Följ reglerna för gångtrafikanter. Vänta att korsna väg tills du ser att det är fri från trafik, och kör försiktigt.
  - Om scooterna stängs av när du kör på plan mark och med max hastighet 6,4 km/h, kommer den att stanna på max 1,1 meter. Tänk på detta när du kör.
- Använd inte scooter på rulltrappor. Välj hiss.
- Använd inte scootern på platser där du inte får gå.

- Använd aldrig scootern nära trappor, du kan köra av kanten och ramla ner.
- Kör sakta genom trånga gångar och dörrar, och se upp med hinder så som bilspeglar och dörrhandtag.

## Skarpasvängar

- Undvik att starta scootern när framhjulet inte pekar framåt.
- Undvik skarpa svängar och tvära stopp.
- Lär dig att minska farten innan du svänger. Sväng aldrig i högsta farten.
- Minska din fart när du ska svänga.

## Körvinklar

- Försök inte att köra upp för ramper eller andra vinklade underlag där vinkeln överstiger den vi anger i Tekniska Specifikationerna.
- Kör rakt uppför vinklade underlag. Kör inte snett. Rakvinkel minskar risken för att scootern välter på vinklade ytor. straight up the incline. This greatly reduces the risk of tipping over or falling.

- Luta framåt för att bättra din stabilitet när du åker upp för ramper, över kantstenar eller andra hinder.
- Kör försiktigt på alla vinklade ytor, även handikappramper mm.
- Kör aldrig snett över kullar och backar.
- Undvik ytor som är täckta med snö, grus, blött gräs eller andra halkiga ytor.
- Försök att hålla scootern igång när du åker på backar. Om den stannar, starta på nytt och accelerera noga och sakta.
- Om du kör nerför en backe och scootern går snabbare än du vill köra, släpp tumgasen och låt scootern stanna helt. När du känner att den är under kontroll, tryck på gasen sakta och fortsätta ner för backen.
- Använd inte frihjul när du står på en vinklad yta.
- Parkera inte på vinklade ytor.
- Om du måste stanna på backe eller ramp, luta framåt för att minska risken att scootern reser sig bakåt.

## Mobiltelefoner

- Använd inte mobilen när du kör.

## Att backa

- Se till att det inte finns saker bakom dig när du backar.
- Backa inte nerför slutningar eller över hinder. Dett kan orsaka att scootern välter.

## Arms and legs

- När du stiger av och på Atto, använd inte ytorna närmast kanten på fotplattan. Att stå så kan välta scootern.
- Håll händer och fötter innanför scootern när du kör.
- Kom inte i kontakt med hjulen när du kör. Tänk på att lösa plagg, halsdukar mm kan fastna i de rörliga delarna.
- Håll fötterna på fotplattan när du kör.

## Väder

- Använd inte scootern i regn, snö, dimma eller när temperature understiger 0. Förvara scootern på torr och uppvärmd plats.
- Undvik att köra i stormar för att minska risken på olyckor eller skador.
- Regn, snö, is, saltvatten och dimma kan inverka menligt på scooterns elsystem
- Se till att scooterns sits och handtag inte överstiger 41°C. Motorn kan överstiga denna temperature efter körning. Rör inte dessa delar när du viker ihop scootern efter körning. Vänta tills motorn svalnat.
- Rör inte motorn när du viker isär eller viker ihop scootern, om inte motorn redan gått ner i temperatur.
- Spola inte av scooter med vattenslang.
- Håll ATTO på ett rent och torrt ställe och unvikatt förvara ute i regn, snö, is, saltvatten mm.

## Stäng av

- För att undvika skador, stäng alltid av scootern innan du klyver av eller på.

## Frihjul

För information om hur man ställer in scooter med frihjul, se "Hur man använder Frihjul" i manualen.

- Kontrollera alltid att framhjulet är låst (alltså inte i frihjulsläge). Stäng inte av scootern när den fortfarande är i rörelse. Detta leder till en abrupt bromsning.
- Var alltid klar över om scootern är olåst (frihjul) eller låst (körläge).
- Framhjulet måste vara låst (inte i friläge) när du transporterar scootern. Se Frihjulsinformation på sidan 57.
- Sitt aldrig på scootern när hjulet är olåst (frihjul).

## Lyfta scootern

- Lyft inte scootern genom att lyfta i de rörliga delarna, typ sätet eller stryhandtagen. Du kan skada både scootern och dig själv.

## Last

- Använd endast scootern för dig själv, inte för att skjutsa eller dra andra saker.
- Du får transportera kassar och shoppingvagnar genom att använda tillbehör godkända av tillverkaren Moving Life. Man måste följa anvisningen och se till att totala vikten av föraren och lasten inte överstiger max vikten som tillåts på scootern.

## Medicin

- Använd inte scootern om du är påverkad av droger eller sprit.
- Använd inte scootern om du tar medicin som orsaker yrsel eller synstörningar, eller om din

förmåga att styra och sköta scootern påverkas negativt.

- Fråga läkaren om råd om du tar medicine som kan påverka din förmåga att sköta scootern på ett säkert sätt. o operate the scooter in a safe manner.

## Ytre påverkan

- Kontakt med verktyg kan orsaka elskador och ev stöttar.
- Koppla aldrig mekaniska eller elektriska apparater mot din scooter. Låt endast auktoriserad Moving Life verkstad arbeta med scootern. Bruk av tillbehör eller trimning som inte auktoriserads gör att din garanti kan bli ogiltig. Det kan också orsaka skador.

## Felbruk

- Försök inte använda scootern på sätt som överskrider de gränser som beskrivs i denna handbok

- Sitt inte på scootern under transport i bil eller buss.
- Sitt inte på scootern på lifter som används för att transportera scooter bakom en bil. Den är inte ritad för sådant bruk och Moving Life avsäger sig ansvar för skador eller påverkan som orsakas av sådant felbruk.
- Scootern får endast programmeras av auktoriserad verkstad. Trimning kan orsaka skador på scootern och för föraren

## Batteri och laddaren

- Låt inte barn leka på eller nära utrustningen när laddning pågår.
- Ladda aldrig ett batteri som blivit nedfryst.
- Om ett batteri skadas, lägg den i ett plastpåse och låt din Moving Live butik ta hand om återbruket.
- Se till att hålla laddarens sladdar oskadda.
- Koppla in laddaren i förlängningssladdar.
- Använd endast Moving Lifes originalbatteri.

## Förändringar på scootern



Denna product har utvecklats för maximal prestation och säkerhet. Du får inte påverka, bygga om, förändra eller koppla ut delar eller funktioner i din scooter. Att göra så kan leda till skador på person och egendom.

1. Förändra in scootern på sätt som inte auktoriserats av Moving Life.
2. Använd endast originalt tillbehör.
3. Lär känna din scooters förmåga och gränser. Gör en säkerhetskontroll vid varje körning.

## Viktbegränsningar



1. Följ de viktbegränsningar som listas i specifikationerna.
2. Att överskriva viktbegränsningen gör garantin ogiltig. Tillverkaren avsägar sig ansvar för skador som följer av överskridna viktgränser.

3. Du får aldrig ta med passagerare på scootern. Det kan påverka tyngdpunkten, som leder till att scootern faller omkull.

## Temperatur



1. Vissa delar av scootern är känslig för temperature. Kontrollern fungerar endast mellan -20°C och +50°C.
2. Vid extrem kyla, batterierna kan frysa, så att scootern inte fungerar. Vid mycket högt värme kommer scootern att bromsa p g a en säkerhetsspärr inbyggd i kontrollern.
3. Scooters ytor och skal kan bli höga eller låga p g a värme och kyla.

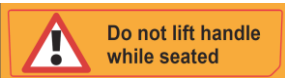
## Varningsetiketter

Följande symboler används på ATTO för att framför varningar och förbud. Det är viktigt att läsa och lära dig vad symbolerna betyder.



N = olåst, friläge.  
D = låst, körläge

Ställ scootern plant när du växlar från "D" eller körläge till "N" eller friläge, eller tvärtom.



Lyft inte detta handtag när du sitter på ATTO



Detta handtag är inte avsedd för att lyfta ATTO



ATTO kan ramla omkull.



Det aktuella handtaget får inte användas när scootern inte är låst.



Visar fram och bakdelarnas vikt i kilo.



Visar Maxvikt på ATTO

ATTO får inte användas inne i fordon



Risker för  
klämskador då man  
viker u teller stänger  
ATTO

- Symboler och beskrivningar på sidan **Fel!** Bokmärket är inte definierat..

Note: Additional labels used on system controls, accessories and disposables are illustrated and described in the following sections:

- Labels on ATTO Mobility Scooter Controls on page **Fel!** Bokmärket är inte definierat..

## Skadade etiketter

I fall etiketterna som beskrivs i detta kapitel skadas, kontakta ATTO för en ny uppsättning, utan kostnad.

## Godkännande och Varningsetiketter

ATTO delar är utrustade med godkännande etiketter och ikoner. De används för att underlätta korrekt och säker användning.

För att lära dig mera om etiketternas betydelse se:

- Säkerhetsmärkning och tillverkare information på sidan 80.

## EMC information



Det är viktigt att läsa denna information för att förstå hur elektromagnetiska störningar (EMI) kan påverka din scooter.

### EMI från radiokällor

Elscooter kan vara känsliga för elektromagnetisk störning från radiokällor, såsom radiomastar, TV sändare, amatörradio sändare, VHS sändare och även mobiltelefoner. Sådan störning kan orsakat oväntade rörelser och inbromsning hos din scooter. Det kan

också skada scooters elektroniska komponenter, t ex kontrollenheten.

Styrkan I EMI mats I volt per meter (V/m).

Varje scooter kan motstå EMI upp till en viss nivå.

Detta nivå kan sägas mäta scooters immunitet mot EMI. Ju högre nivå, ju bättre skydd. För närvarande har ATTO en nivå på minst 20 V/m, vilket ger skydd mot många av de vanligaste källor för EMI.

Det finns ett antal relativt starka There are a number of sources of relatively intense electromagnetic fields in the daily environment. Some of these sources are obvious and easy to avoid. Others are not apparent and exposure is unavoidable. However, we believe that by following the warning listed below, your risk to EMI will be minimized.

The sources of radiated EMI can be broadly classified into three types:

- 1) Hand-held portable transceivers. These are transmitters-receivers with the antenna mounted

directly on the transmitting unit. These devices include citizens band (CB) radios, walkie-talkies, security, fire and police transceivers, cellular telephones, and other personal communication devices).

NOTE: Some cellular telephones and similar devices transmit signals while they are on, even when not being used.

- 2) Medium-range mobile transceivers, such as those used in police cars, fire trucks, ambulances and taxis. These usually have the antenna mounted on the outside of the vehicle.
- 3) Long-range transmitters and transceivers, such as commercial broadcast transmitters (radio and TV broadcast antenna towers) and amateur (HAM) radios.

NOTE: Other types of hand-held devices, such as cordless phones, laptop computers, AM/FM radios, TV sets, CD players, cassette players, and small appliances such as electric shavers and hair dryers are

not likely to cause EMI problems to your mobility scooter, so far as we know.

## Mobility Scooter Electromagnetic Interference (EMI)

Because EM energy rapidly becomes more intense as one move closer to the transmitting antenna (source), the EM fields from hand-held radio wave sources (transceivers) are of special concern. It is possible to unintentionally bring high levels of EM energy very close to the mobility scooter control system while using these devices. This can affect mobility scooter movement and braking.

Therefore, the warnings listed below are intended to prevent possible interference with the control system of the mobility scooter. Electromagnetic interference (EMI) from sources such as radio and TV stations, amateur radio (HAM) transmitters, two-way radios, and cellular phones can affect mobility scooters.



### **WARNING**

Following the warnings listed below should reduce the chance of unintended brake release or scooter movement, which could result in serious injury.

- 1) Do not operate hand-held transceivers (transmitters receivers), such as citizens band (CB) radios, or turn on personal communication devices such as cellular phones while the mobility scooter is turned ON;
- 2) Be aware of nearby transmitters, such as radio or TV stations, and try to avoid getting close to them;
- 3) If unintended movement or brake release occurs, turn the mobility scooter OFF as soon as it is safe;
- 4) Be aware that adding accessories or components, or modifying the mobility scooter, may make it more susceptible to EMI (NOTE: There is no easy way to evaluate their effect on the overall EMI immunity of the mobility scooter); and

- 5) Report all incidents of unintended movement or brake release to the mobility scooter manufacturer, and note whether there is a source of EMI nearby.

## Important

EMI/RFI – ATTO has passed an EMI immunity test according to EN 60601-1 Class B.

Modification of any kind to the electronics of this mobility scooter as manufactured by Moving Life may adversely affect the EMI immunity levels.



The operation of the scooter might disturb the operation of devices in its environment due to emitting of electromagnetic fields (e.g. alarm systems of shops, automatic doors, etc.).

## Radiation

The ATTO Mobility Scooter does not generate any hazardous radiation.

## Delarna



Figure 1 ATTO in close mode

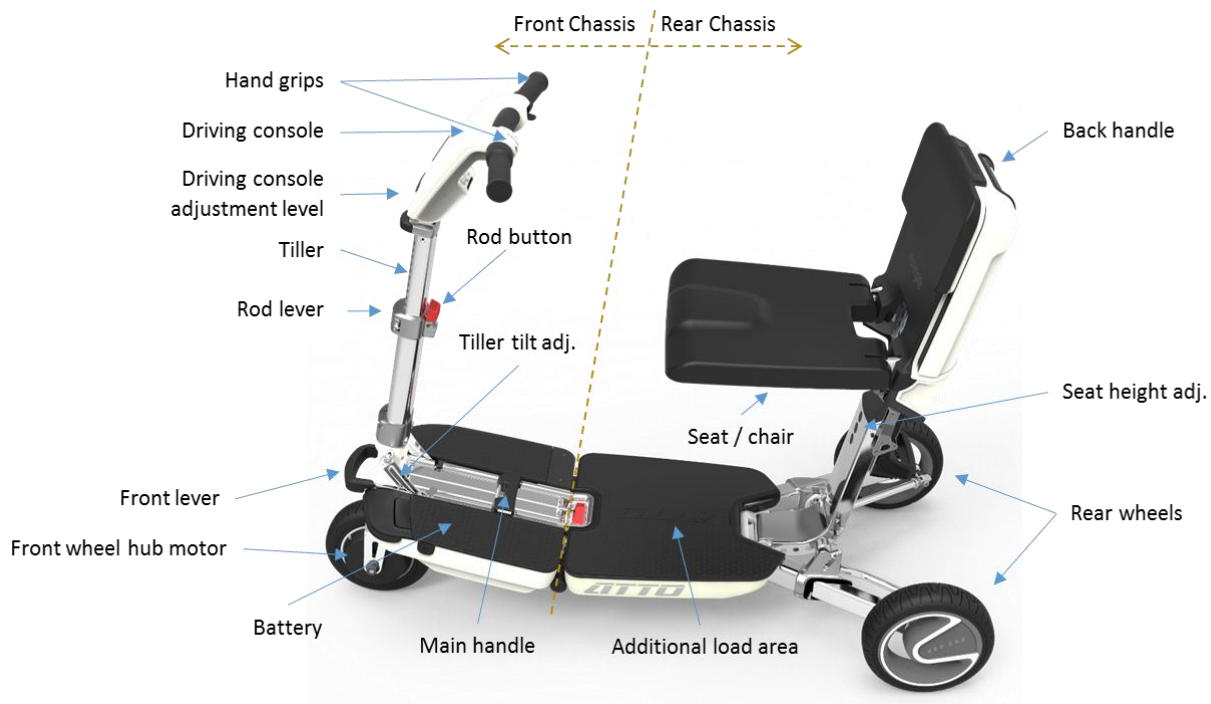


Figure 2 ATTO in driving mode

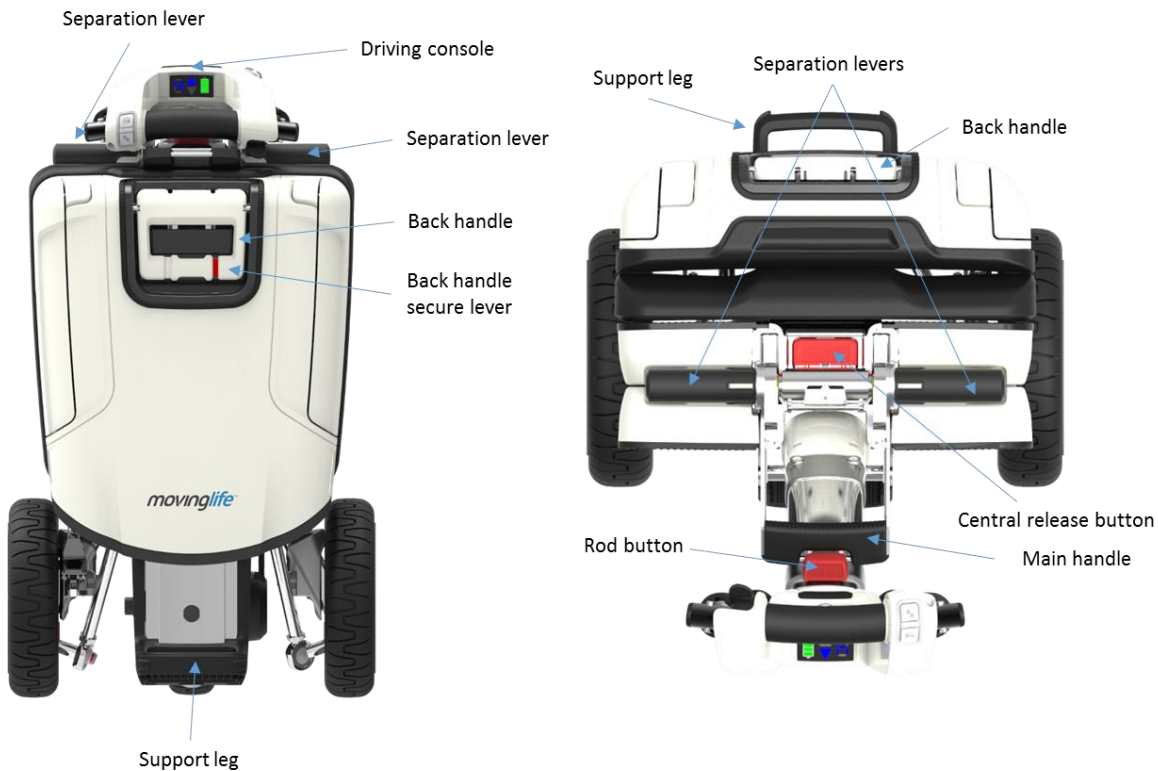


Figure 3 – More ATTO parts

# OPERATING ATTO

ATTO is very easy to operate; it requires no special skills and can be learned by following the steps described in the following pages and by practice.

The first step is reading through this chapter of the Owner's Manual and understanding the sequence of steps required for opening and closing (folding) the scooter. Once completed, use the manual to guide you while you practice each step. It may be difficult at first but will be very easy once you have practice it several times.

To help you learn we have created a simple video you can watch under the videos section of our website:

[www.movinglife.com/videos](http://www.movinglife.com/videos)



**WARNING** Injury hazard due to improper assembly, disassembly, opening or closing ATTO. Ensure that all components in the scooter have been correctly placed before continuing to the next step. Always check that all locked devices are holding correctly.

## Opening

1. Make sure your ATTO is on flat ground before opening. Make sure you have clearance of 2 meters (7 feet) from the side of the back wheels.



**PINCH POINT** Operations described below are done near and around pinching points. Be careful and follow instructions to prevent injury. Make sure your fingers are away from moving parts that may be closing gaps while moving.

2. Release the adjustment lever of the handle bar and bring the handle bar to an upright position, then bring the lever back to its secured position (see Figure 4).



Figure 4

3. Press the central release button until it clicks and remains pressed (see Figure 5).



Figure 5

4. Press the rod button and tilt it away from the main ATTO body (see Figure 6).

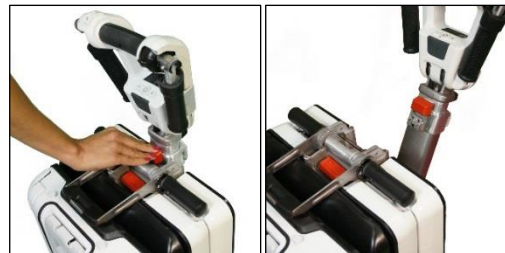


Figure 6

5. Hold ATTO with two hands (see Figure 7).



Figure 7

6. Tilt ATTO toward the rod until the front wheel touches the ground (see Figure 8).



Figure 8

7. Using the main handle, pull the main body away from the rod, thus rolling the back wheels away from the front wheel (see Figure 9).



Figure 9

8. Gently move the handle down until ATTO is flat as shown in Figure 9 (see Figure 10).



**NOTE**

Keep holding the rod at upright position



Figure 10

9. Place handle in the designated recess until it clicks and locks in place (see Figure 11).



Figure 11

10. Lock the rod in upright position by pushing the front lever down until it clicks and locks in place (see Figure 12). . In case the front lever require too much force to operate, you should apply horizontal pressure on the main handle towards the front of the scooter. This will release the pressure on the front lever and will make it easier to open.

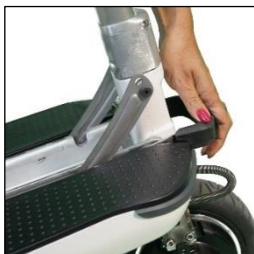


Figure 12

11. Place one hand on the tiller and with the other hand release the secure lever of the back handle and bring the handle to upright position at 90 degrees (see Figure 13).

**NOTE**

For proper operation please do not flip the handle to 180 degrees from closed position. If you did and you are unable to lift the chair backwards, return the handle to its original position and try again.



Figure 13

Using the handle, pull the back of the chair backwards until it clicks and locks in place (see Figure 14).



Figure 14

12. Continue using the handle for pulling up the chair until it clicks and locks in place (see Figure 15).



**WARNING** Do not sit on the chair before it clicks in place to prevent it from sliding down again.



Figure 15

13. Open both sides of the handle bar (see Figure 17).



Figure 16

## Adjusting for maximum comfort

Several adjustments can be made for maximum comfort. Some adjustments can be made by the user, while other adjustments **must only be made by a certified technician**. The adjustments that can be made by the user are detailed in this section.

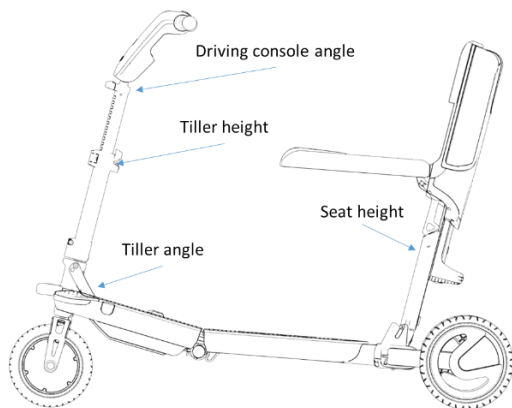


Figure 17 Comfort adjustments



### PINCH POINT

Operations described in this chapter are performed near and around pinching points. Be careful and follow instructions to prevent injury. Make sure your fingers are away from moving parts that may be closing gaps while moving.

## Adjusting Driving Console height

Use the rod lever to adjust the height of the handle bar at your convenience. Bring the lever back to the secure position once you are done (see Figure 17).



Figure 18 Driving Console height lever

## Adjusting Driving Console angle

ATTO's Driving Console can be adjusted to your comfort in a variety of angles. To adjust the Driving Console you should first be seated on your mobility scooter:

1. Hold the Driving Console in one hand and release the adjusting lever using the other hand (see Figure 19).
2. Adjust the Driving Console angle so you can reach and hold it comfortably with a clear view of the display area.
3. Tighten the adjustment lever when you are done.



Figure 19 Driving Console tilt lever

## Seat height adjustment

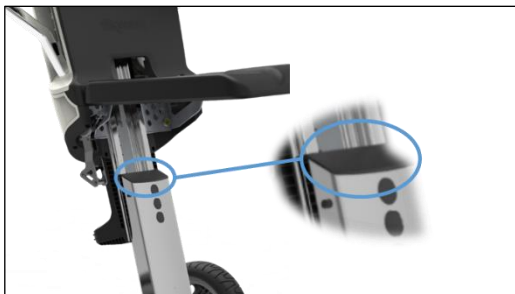


### REQUIRES TOOLS

Adjusting seat height must be performed only by certified technician to prevent injury and damage.

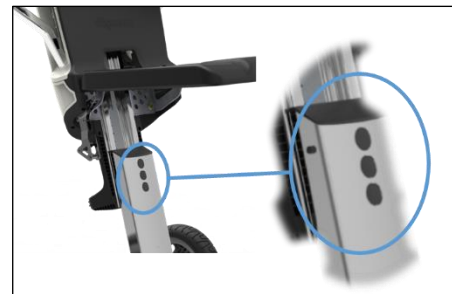
Although ATTO's seat is thin and stylish, it was designed to provide comfort and safety and can be adjusted according to user's preferences. The seat mechanism can be locked at one of three fixed heights. To adjust seat height please follow the following steps, no tools needed:

1. ATTO has to be in opened position in order to adjust seat height. Lift the seat to upright position, locate the seat height adjustment cover at the seat base right under the seat pivots and remove it (see Figure 20).




2. Figure 20 Seat height cover

3. Under the cover you will find a metal bracket that has to be removed. Hold the bracket between your fingers and lift it out. Remember the bracket position to make it easier to put it back in place again.
4. Once the bracket has been removed you should be able to remove the bulky metal pin (located in one of the three adjustment holes) holding the seat in its place. Remove the pin while holding the seat with your other hand (see Figure 21).




5. Figure 21 Seat height adjustment holes

6. Now you can adjust the seat to any of the three holes height and reinsert the pin to hold it in place.
7. Reinsert the metal bracket and the cover.

 **WARNING** When the seat is in its highest position, the scooter will be more inclined to tip over.

## Tiller angle adjustment

 **REQUIRES TOOLS** The tiller angle adjustment must be done by certified technician only, to prevent injury and damage.

The Steering Rod (tiller) angle can be adjusted in one of two positions according to user comfort. The default position will be adequate for most users, larger users may want the Steering Rod further away from their body for more space. In order to adjust the angle you need a 4 mm Allen wrench (hex key).

1. ATTO has to be in the opened position in order to adjust the tiller angle. Once opened, locate and release the two Alan (hex) screws shown in Figure 22 while holding the tiller in upright position (you need to hold the tiller to prevent it from falling while releasing the screws).
2. Move the tiller into the desired position and tighten the two screws back again using a thread locker (such as Loctite).




---

Figure 22 Steering Rod angle adjustment screws

---

## Driving Console

The Driving Console (your scooter's dashboard) contains all the controls and display needed for operating your mobility scooter while driving.




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Figure 23 Driving Console overview

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## ON/OFF and speed control buttons

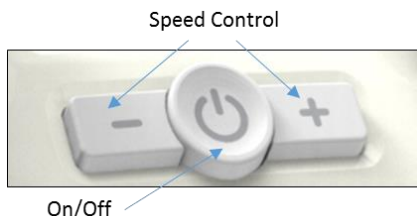


Figure 24 On/Off and speed control

- A. The On/Off button is located at the center of the Driving Console below the display panel. To turn ATTO on press and hold the button until ATTO starts.
- B. The two buttons on the sides of the ON/OFF switch marked with "+" and "-" are your speed limit control. Along with the number shown on the display panel, they allow you to set the maximum speed ATTO will develop at full throttle. While ATTO is not moving, Click the "+" button to increase the speed and the "-" button to decrease the speed.

### **WARNING**

When driving in crowded places and near obstacles, use extra care and reduce the maximum speed to a limit allowing you to control your mobility scooter without presenting a risk to other people and to yourself.

## Display panel



Figure 25 Display Panel

**Battery level meter** – When ATTO power is ON the battery meter indicates the approximate battery charge level. As with all Li-ion batteries, the charge level indication is accurate only when the battery is fully charged. All other indications are approximate and intended to give you a rough idea of the battery charge level. Please refer to the "Specification" chapter in this

visas här.

Owner's Manual for more information on your battery range.

#### NOTE

Your scooter will automatically turn itself off if the battery output falls below operation voltage.

**Direction mode** – ATTO can drive both forward and backward. The current driving direction is shown on the display panel by an arrow pointing forward or backward, depending on user's selection. To switch the driving direction press on the direction button located near the left hand grip.

## Throttle



Figure 26 Driving Throttle

The throttle is used for driving and controlling the driving speed. Place your thumb on the throttle lever and press it down to accelerate. To decelerate, release the throttle lever to your level of comfort. To bring the scooter to a complete stop simply remove your thumb from the lever which will set the lever to its "off" position, bringing the scooter to a halt after 1.2 meter.

## Reverse and horn buttons



Figure 27 Reverse and horn buttons

- A. ATTO is equipped with a driving direction button. Press on the button to change the driving direction. Once the driving direction has

changed, ATTO will sound a single beep when in forward driving mode, and a double beep when in reverse driving mode. In addition, a large arrow on the display panel will indicate the current driving mode. When ATTO is turned on it is always in Forward driving mode.

- B. Press the horn button to sound the horn. Always use the horn when needed to prevent accident or injury.



**WARNING** Always bring the mobility scooter to a full stop before changing the driving direction.

## USB port

ATTO is equipped with a general USB charging port providing up to 1.2A charging current. If an error accorded, the port is disabled and the scooter will operate as normal. The error will be reset after restarting of the scooter's controller (power off/on cycle).

## Display Dimming

Pressing the '+' and '-' buttons simultaneously will toggle the dimming option.

## Bee sounds

Beeps caused by pressing buttons may be enabled or disabled. To Enable, press the '+' and 'Horn' buttons simultaneously. To Mute the beeps, press the '-' and 'Horn' buttons simultaneously (horn is always active).

## Handle bar grips



Figure 28 Handlebar grip

There are two grips on the handlebar, one on each side.

To change the grips from folded position to drive position simply lift the grip around its pivot and it will

lock itself in the open position. To fold it back again (only when you are about to fold ATTO), simply pull the grip away from the handlebar and down to an angle of nearly 90 degrees where it will automatically lock itself in the new position.



### **PINCH POINT**

Be careful of pinch points near the grip hinge. To prevent injury keep your fingers away from metal parts and hold the grip and the handlebar only in non-exposed areas covered with plastic and rubber.



**WARNING** Do not lean on the handlebar tiller for support during stepping on or off the scooter. The handlebar might unintentionally move and cause you to lose your balance which could result in personal injury



**WARNING** Never step on or off the scooter using the seat or the seat backrest for support. The seat back may fold down and may cause you to lose your balance, which could result in personal injury.

## Getting on ATTO

- Verify that the scooter is turned off.
- Verify that the scooter is fully opened and secured. See the "Opening" section of this Owner's Manual.
- Carefully place one foot on the approximate center of the deck and seat yourself comfortably and securely on the seat.
- 

## Getting off ATTO

- Verify that the power is turned off.
- Carefully place one foot on the ground, transfer your weight to that leg, and slowly come to a standing position.
- Step away from the scooter.

## Driving

### NOTE

#### INSPECTIONS PRIOR TO USING YOUR SCOOTER:

1. Please check that the battery is in its place and verify it is locked and not protruding off the surface.
2. Please check that the battery is fully charged or has enough capacity to carry you to your desired destination.
3. Verify that the freewheel lever is in locked position.
4. Verify that all locking parts are in fully opened position and locked in place.

## Turning ATTO on

Press and hold the “On” button to turn ATTO on. All lights will come on momentarily and then the following information will be indicated:

- Set maximum speed
- Forward driving direction (default)
- Battery charge level status

See Figure 29 Typical display after turning on.



Figure 29 Typical display after turning on

- We recommend that you select a maximum speed setting (using the "+" and "-" buttons near the On/Off switch) at which you feel comfortable, safe, and in control of your scooter.
- Make sure that you are seated safely and properly on your ATTO.
- For your first driving sessions, make sure that your ATTO starts out on a level surface and that you will continue driving on a level surface.

### WARNING

- Never touch the Freewheel/brake release lever while driving.
- Do not bend, lean, or reach for objects if you have to pick them up from the scooter deck or from either side of the scooter.
- Movements may change your center of gravity and the weight distribution of the scooter and cause your scooter to tip over, possibly resulting in personal injury.
- Never switch the scooter to the Freewheel mode when somebody is sitting on it.
- For proper operation, the Freewheel/brake release lever should always be securely engaged.
- Always bring your scooter to a complete stop before stepping up or down from the scooter.

## Forward driving

- Place your hands on the handgrips. Move the tiller to the center position to drive straight forward.
- Make sure you are in forward drive mode by looking at the Direction Arrow on the display. If the arrow points forward (away from your body to the front) then you are in Forward Mode. If the arrow

points backwards in the direction of your body than you should click the Direction Button until you hear one beep and making sure the Direction Arrow is pointing forward.

- Use your right thumb to operate the drive throttle. Press the throttle lightly to move forward.
- Increase the pressure applied by your thumb to increase your speed.
- To stop ATTO, release all pressure on the throttle. The throttle will automatically return to the upper (off) position and your scooter will come to a gradual stop. Note: Always bring your ATTO to a full stop before changing direction from forward to reverse, or from reverse to forward.

## Reverse driving

- Place your hands on the handgrips.
- Use one of your left fingers to press the direction button located on the left side of the Driving Console.
- You should hear a double beep confirming you are now driving backwards. If you hear a single beep

you are in forward drive mode and should click the direction button again.

- Use your right thumb to operate the drive throttle. Press the throttle lightly to move backwards.
- Increase the pressure applied by your thumb to increase your reverse speed.
- To stop ATTO, release all pressure on the throttle. The throttle will automatically return to the upper (off) position and your scooter will come to a gradual stop.
- You should know that for safety reasons ATTO's speed in reverse is slower than the maximum speed set on the speed control dial.

## Stopping

Just let go of the drive throttle, which will automatically return to the upper (off). The scooter automatically brakes using the regenerative brake. This will be followed by entering the scooter into "parking" mode using the electro-mechanical brake.

## Emergency braking

In case you must stop and you have released the drive throttle but your scooter continues to move, press the On/Off switch until the scooter turns off and stops.

## Steering

- Steering your ATTO is easy and intuitive.
- With both hands on the handgrips of the tiller, turn the tiller to the right or to the left to change the moving direction accordingly.
- Make certain to maintain sufficient clearance when turning your scooter so that the rear wheels will clear any obstacle.



**WARNING** Turning too sharply around a corner can cause the scooter to tip over. Avoid this danger by steering a wide arc around corners and obstacles. Also, to avoid the risk of tipping over, reduce speed before negotiating any turns.

## Steering in a tight spot

If you must steer in a tight spot, such as entering a doorway or when turning around:

- Bring your ATTO to a full stop.
- Turn the speed control to the slowest speed setting.
- Turn the tiller to the direction in which you wish to drive.
- Press gently on the thumb throttle and slowly turn your ATTO.

## Steering in Reverse

Backing up your ATTO requires special attention to what you are doing:

- Use a left finger to click the direction button. You should hear a double beep confirming you are now driving backwards.
- Turn the tiller in the direction in which you wish to drive backwards.

- Note that for safety reasons ATTO's speed in reverse is slower than the maximum speed set on the speed control dial.

## Driving on slopes




**WARNING** Stopping distance on slopes can be significantly greater than on level ground


More and more buildings have ramps with specified degrees of inclination, designed for easy and safe access. Some ramps may have switchbacks (180 degrees turns) that require you to have good cornering skills on your ATTO.


- Proceed with extreme caution as you approach the downgrade of a ramp or other incline.
- Take wide swings with your ATTO around any tight corners. If you do that, the scooter's rear wheels will follow a wide arc, not cut the corner short, and not bump into or get hung up on any railing corners.


- When driving down a ramp, keep ATTO's speed set to the slowest speed setting to ensure a safely controlled descent.
- Avoid sudden stops and starts.


When climbing an incline, try to keep ATTO moving. If you must stop, start up again slowly, and then accelerate cautiously. When driving down an incline, do so by adjustment the speed to the slowest setting and driving in the forward direction only. If your scooter starts to move down the incline faster than you anticipated or desired, allow it to come to a complete stop by releasing the throttle. Then push the throttle forward slightly to ensure a safely controlled descent.

 **WARNING** When climbing an incline, do not zigzag or drive at an angle up the face of the incline. Drive your ATTO straight up the incline. This greatly reduces the possibility tipping over or falling. Always exercise extreme caution when negotiating an incline.

 **WARNING** Do not drive your ATTO across the side of an incline or diagonally up or down an incline; Avoid stopping, as much as possible, while driving up or down an incline.

 **WARNING** You should not travel up or down a potentially hazardous incline (i.e., areas covered with snow, ice, cut grass, or wet leaves).

 **WARNING** When on any sort of an incline or decline, never place the ATTO in freewheel mode while seated on it or standing next to it.

 **WARNING** Even though your ATTO is capable of climbing slopes greater than that illustrated in Figure 30, do not, under any circumstances, exceed the incline guidelines or any other specifications presented in this manual. Doing so could cause your

ATTO to become unstable, resulting in personal injury and/or damage to your ATTO.

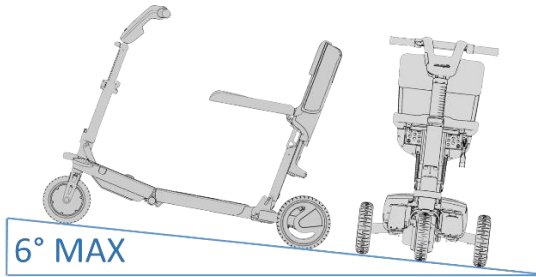


Figure 30 Maximum recommended incline angle



**WARNING** Any attempt to climb or descend a slope steeper than what is shown in Figure 30 may make ATTO unstable and cause it to tip over, resulting in personal injury.

When you approach an incline, it is best to lean forward (see Figure 31 and Figure 32). This shifts the center of gravity of you and your scooter toward the front of the scooter for improved stability.



Figure 31 Normal driving position



Figure 32 Shifts center of gravity

## Turning corners

Turning at high speed may cause a tipping over. Factors affecting the possibility of tipping over include turning speed, steering angle (how sharply you are turning the steering tiller), uneven road surfaces, inclined road surfaces, a transition from low grip area to high grip area (as moving from a grass surface to a paved surface - especially at high speed while turning), and abrupt changes of direction. High speed turning is not recommended. If you feel you are about to tip over while turning, reduce speed and steering angle (i.e., make the turn wider) to prevent your scooter from tipping over.



**WARNING** When you turn a sharp corner, reduce speed. When you use the scooter at a high speed, do not turn sharply. This will reduce the risk of overturning and falling. Always exercise discretion when taking a turn to avoid injury and damage to property.

## Folding (closing)

1. Make sure ATTO is on flat ground before folding it.



### PINCH POINT

Operations described in this chapter are done near and around pinching points. Be careful and follow instructions to prevent injury. Make sure your fingers are away from moving parts that may be closing gaps while moving.

2. Fold both sides of the handle bar (see Figure 33).



Figure 33

3. Release the secure lever of the back handle and bring the handle to 90 degrees position. Allow the seat to slide down until it clicks in place (see Figure 34 & Figure 35).



Figure 34

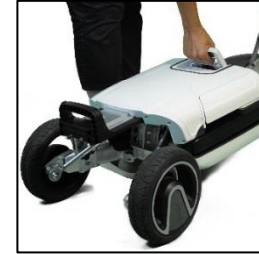


Figure 36



Figure 35

4. Push the back of the chair forwards until it clicks (see Figure 36).

5. Use one hand to keep the rod upright. Using your other hand, release the front lever (see Figure 37). In case the front lever require too much force to operate, you should apply horizontal pressure on the main handle towards the front of the scooter. This will release the pressure on the front lever and will make it easier to open.

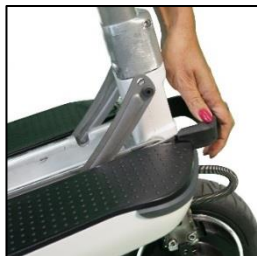


Figure 37

Switch hands. Use one hand to keep the rod upright and use your other hand to lift the main handle (see Figure 38).



Figure 38

- Using the main handle pull the center upwards and towards the rod until it clicks and locks in place (see Figure 39).



### **PINCH POINT**

Be careful not to pinch your finger between the chassis. This area is a pinch point and requires your full attention.

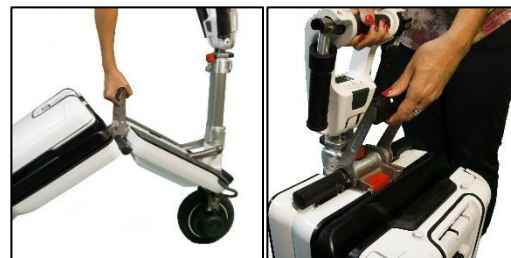


Figure 39

- Use the rod lever to adjust the height of the handle bar to the lowest position and bring the lever back to the secure position (see Figure 40).

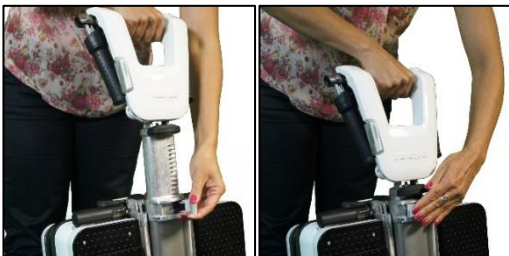


Figure 40

8. Release the adjustment lever of the handle bar and bring the handle bar to a horizontal position. Then bring the lever back to secure position (see Figure 41).



Figure 41

## Separating the chassis



**WARNING**

Lifting ATTO by yourself may be challenging for some people and therefore not recommended. If you have another person to assist you, we suggest lifting the product together. If you need to lift ATTO alone, you can separate ATTO into two segments as described below. Lifting ATTO as a whole may be too heavy and may cause injury or damage.

ATTO's front and rear halves (chassis) can be easily and effortlessly separated in only a few seconds by operating a knob and two handles. The same technique applies to putting the two halves back together. This is very useful when storing ATTO in the trunk or in an airplane's overhead bins.

1. Make sure the handle bar is secured at an upright position (see Figure 42).



Figure 42

2. Open both separation levers (see Figure 43). In case the separation levers require too much force to operate, you should apply horizontal pressure on the driving console towards the center of the scooter. This will release the pressure on the separation levers and will make them easier to open.

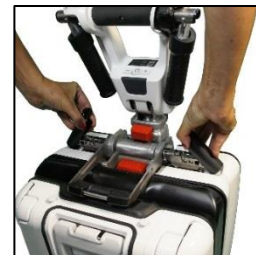


Figure 43

3. Hold the handle bar with one hand and press the central release button with the second hand until it clicks (see Figure 44).



Figure 44

4. Carry the front chassis from the handle bar and separate from the back chassis (see Figure 45).



Figure 45

## Lifting separated chassis

1. Once the two chassis has been separated and you are ready to lift them, for instance into your car trunk, make sure both chassis is set flat on the ground where it will not be an obstacles to you or to others,
2. Grab the one of the chassis from designated handles and carry it to its destination (see Figure 46):

- (1) Front handle
- (2) Driving console handle
- (3) Frame (underneath)
- (4) Support leg

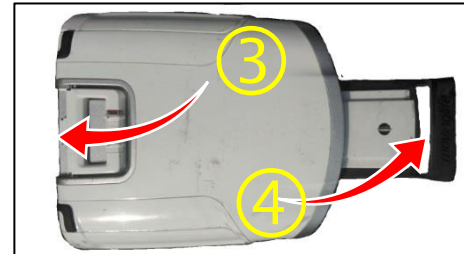
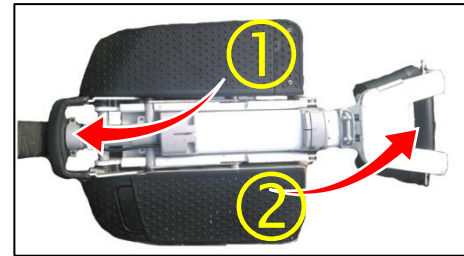


Figure 46 – lifting points

3. Repeat the previous step on the other chassis.
4. Lay the chassis flat and secure them with straps (or other ways) to insure safety and damage free transportation.

## Connecting the chassis

1. Make sure the handle bar is secured at an upright position (see Figure 47).



Figure 47

Place the back chassis vertically. Hold the front chassis from the handle bar and bring it towards the back chassis (see Figure 48).



Figure 48

2. Bring the two parts together. Use the hanging hooks (see Figure 49) to locate the two ends properly. At this point the central release button will click.



Figure 49

3. Close the two separation levers until they click (see Figure 50). In case the separation levers require too much force to operate, you should apply horizontal pressure on the driving console handle towards the center of the scooter. This will release the pressure on the separation levers and will make them easier to open.

NOTE: DO NOT try to open ATTO for driving before the two levers are secured in the downwards position



Figure 50

## Freewheel

ATTO is equipped with a manual freewheel lever, which when pushed to “N” state it in freewheel mode and allows the scooter to be pushed.

### **WARNING**

When ATTO is in freewheel mode, the braking system is disengaged, and ATTO will move freely with very little force. This can cause injury and property damage to anyone and anything nearby.

- Change to freewheel mode only on a level surface.
- Ensure ATTO's power is turned off.
- Never sit on ATTO while handling the freewheel lever.

### **WARNING**

After you have finished pushing your scooter, always lock the brakes by changing to non-freewheel mode.

## Operating the freewheel

In case the battery dies or ATTO is not driving, ATTO may be rolled manually. This will require releasing the mechanic auto-brake of the front wheel using the free wheel lever (see Figure 51).



Figure 51 Releasing the freewheel

Before driving ATTO again, make sure the freewheel lever is pushed backwards (see Figure 52).



Figure 52 Securing the freewheel

## Battery and charger

ATTO's charger is a small yet smart and powerful charger with the ability to connect to any electrical grid rating 110VAC – 240VAC. It is fully approved and safe to use.

- When connecting the charger, connect the DC charging cord to the battery charge plug before connecting the charger AC cord to the electrical outlet.
- When disconnecting the charger, always do so in reverse order of the connecting procedure.



Figure 53 ATTO's Li-ion Battery



Figure 54 ATTO's Charger

## Installing the battery

To install the battery, insert first the back end of the battery and then push the front until the battery clicks and locks in place (see Figure 55).

**NOTE** Make sure the battery is properly connected before folding ATTO or turning it on.



Figure 55

## Removing the battery

Identify the battery release button highlighted in red frame in Figure 56.



Figure 56 - battery release button



Figure 58

To remove the battery from ATTO, press the release button and pull the battery out (see Figure 57).



Figure 57

Use the handle for carrying the battery when removed from ATTO (see Figure 58).

**⚠ WARNING**

- NEVER attempt to recharge the batteries by attaching cables directly to the battery terminals.
- DO NOT attempt to recharge the battery and operate ATTO at the same time.
- DO NOT attempt to recharge the battery when ATTO has been exposed to any type of moisture.
- DO NOT attempt to recharge the battery when ATTO is outside.
- DO NOT sit on ATTO while recharging the battery.

**⚠ WARNING**

- New battery **MUST** be fully charged prior to initial use of ATTO. **ALWAYS** fully charge new battery before initial use or battery life will be reduced.
- As a general rule, you should charge your battery at 60% of full charge before placing in storage for long period of time.
- Only use a charger approved by Moving Life.
- Use of improper extension cord for the charger could result in risk of fire and electric shock.

Charging the battery can be done on board and off board, meaning you can connect the charger when the battery is in its place inside ATTO or when it is taken out of ATTO.

## Charging the battery

**ⓘ NOTE**

- a. The battery should not be emptied. To maintain good battery state and maximize its

life span always charge the battery when the battery meter reaches 2 green lines.

- b. Before placing the battery for a long period of time make sure to charge it at about 60% of full charge.

1. Connect the charger to the electric socket. The Green LED should turn green to indicate the charger is properly connected to the socket.
2. Connect the other end of the charger to ATTO's battery. The charger LED will turn red to indicate the battery is not fully charge and that charging is taking place.
3. When the battery is fully charged, the LED will turn green. This may take up to 6 hours. Once charging is complete, disconnect the charger from the wall socket and then disconnect the battery from the charger.

**ⓘ NOTE**

Battery can be charged either when connected to ATTO or out of ATTO.

## Maximizing battery's life time



**WARNING** Always keep batteries in cool dry conditions to prevent damage to the battery and surrounding equipment.

## Installing and using the pelvic support

A pelvic support is an optional device you can purchase separately from Moving Life and install on your ATTO according to following instructions:

1. Place the two Velcro Stickers on the back of ATTO near the back handle as shown in Figure 59. Pill the protecting tape and stick the Velcro in place using the self-adhering side. Apply light pressure to ensure good contact.

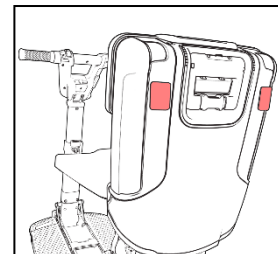


Figure 59 - Placing Velcro Stickers

2. Attach the pelvic support belt to the Velcro stickers as shown in Figure 60. You can use any of the two parts on any side (left or right).

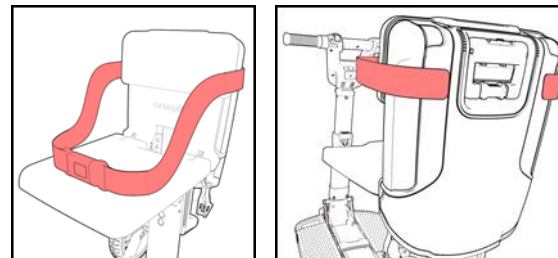


Figure 60 - Attaching the safety belt to the Velcro stickers

3. Close the pelvic support belt after sited on the scooter by clicking provided belt clicker as shown in Figure 61.

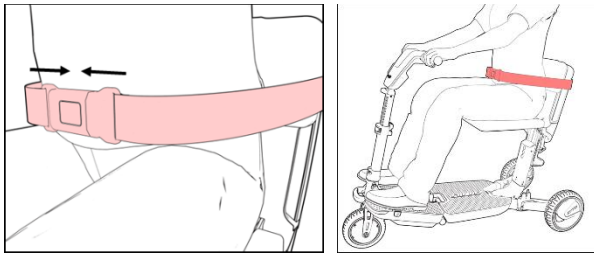


Figure 61 - Clipping the safety belt

To open the pelvic support belt click on the release button located in the middle of the clicker as shown in Figure 62.

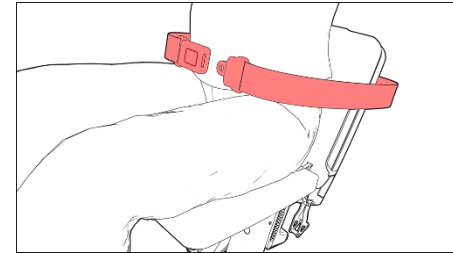


Figure 62 - Releasing the safety belt

## Error Codes

When ATTO's smart controller detects a problem you will be notified by a letter (A-Z) shown on the Driving Console display.

Some errors are not significant and do not affect your ability to use ATTO such as a call for service, while other errors are severe and critical enough to cause ATTO to stop operating, all for your own safety.

The following table details error codes and their meanings:

Error Number	Severity	Explanation and what to do
A	Low	USB port reports an error. Disconnect any device. Check if port is wet. Restart ATTO.
P	Low	Throttle may be pressed while ATTO is turned on. Release the throttle. If problem persists restarts ATTO.

Error Number	Severity	Explanation and what to do
o	High	Motor Sensors malfunction. Contact support.
L	Low	Motor reports an overload. Shutdown ATTO, wait 10 minutes and restart.
H	Low	Controller is over heated. Shutdown ATTO, wait 10 minutes and restart.
C	High	Internal communication error occurred do to wiring or internal electric problem. Contact support.
E	High	Internal electric problem. Contact support.
b	Low	Controller sensed over or under Voltage. Stop ATTO and restart.

# TRANSPORTING ATTO

ATTO can be effortlessly transported in many types of vehicles, on land, sea or by air.

Transport of ATTO on commercial aircraft is subject to federal regulations and airline policy. Please consult your airline prior to your flight to ensure your ATTO and its lithium-ion battery is permitted.

To transport ATTO:

- ◆ For safety reasons, remove the battery and place it in a safe location.
- ◆ Make sure it is fully closed.
- ◆ To prevent injury and damage, secure ATTO in a way that will prevent it from moving around or shaking.
- ◆ Cover or otherwise secure the tiller and handlebar to prevent it from being damaged due to moving

objects or by ATTO shifting around during transport.

To transport ATTO in a car please see the “Separating the chassis” chapter in this Owner’s Manual.

## WARNING

- If your scooter and its components are not properly and securely stowed, the scooter or components may shift around while driving causing injury or damage.
- If the scooter is transported in a vehicle when fully assembled and in open position, no one should sit on the scooter during loading and transport.
- If you use an external lifting system, be sure to secure your ATTO as it could fall off the lift.
-

 **NOTE**

When transporting ATTO, make sure it is always in an environment within the allowed specifications for humidity and temperature.

# TROUBLESHOOTING

## If your scooter does not operate

1. IF YOU TURN ATTO ON AND IT IMMEDIATELY SHUTS ITSELF, PLEASE CHECK TO ENSURE THE FREEWHEEL LEVER IS IN DRIVING MODE.
2. MAKE SURE THE CHARGER IS NOT CONNECTED TO YOUR SCOOTER.
3. Check the battery, is it charged? If you are not sure, you can connect it to the charger and wait for the green LED.  
Once you are sure the battery is not empty;
4. Make sure the battery is properly placed in its battery housing on the scooter, and that there is no foreign material such as paper or dirt interfering with the electrical contact between the battery and its connector.  
If that's ok;
5. Check the fuse; if it is blown, replace it following the procedure in the "Maintenance"

chapter of this Owner's Manual. Once you made sure the fuse is good;

6. Try to turn the scooter on by pressing the On/Off button for at least 2 seconds. If the scooter does not turn on please contact an authorized Moving Life dealer.

## If the scooter is ON but does not move

Start by checking the freewheel lever; make sure it is in locked position as described in the "Operation" chapter of this Owner's Manual.

## Charging problems

If batteries fail to charge within 12 hours:

- Check the battery connections.
- It may be necessary to have the batteries checked and perhaps replaced by an authorized Moving Life dealer.

- It may be necessary to have the charger tested.

Note: ATTO's battery can be charged while it is installed on the scooter or when it is removed from the scooter.



Do not leave the battery pack and charger plugged in for more than 12 hours. Damage to the battery pack and a hazardous condition may result.

# MAINTENANCE

ATTO's expected service life is 10 years and it will extend much longer provided care and maintenance procedures are carefully followed.

Please follow the maintenance procedures whenever needed or at least once a year.

Replacement parts are available from Moving Life and authorized service facilities (See back cover for details).

## Electrical fuse

Your ATTO Battery has a protecting fuse at the bottom of the battery pack (see red circle in Figure 63).



Figure 63 Fuse location

## Possible causes for the fuse to blow up

The fuse is designed to protect the battery from over charging/discharging. You should check the condition of the fuse if:

- The battery is not charging.
- A charged battery is connected to ATTO but ATTO does not turn on.
- ATTO has turned off unexpectedly during operation.

## Replacing a blown fuse

To check the fuse (see Figure 65):

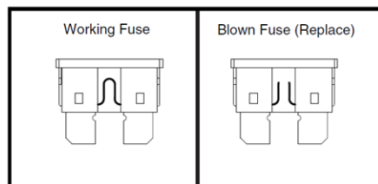


Figure 64 Identifying fuse condition

- Remove the battery and place it on a secure surface such as a table, with its bottom facing up.
- Remove the fuse plastic cover.
- Pull out the fuse.

Examine the fuse to see if it is blown. A blown fuse has a gap in the wire. In case it is blown (see Figure 64), replace it with the spare fuse provided with your ATTO. If you already used the provided spare fuse you need to obtain a new fuse blade type ATO or ATC.

Once a new fuse has been placed please remember to place the plastic cover back in its place (Figure 65).

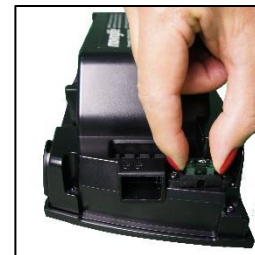


Figure 65 Replacing a blown fuse



**WARNING** Never soak your scooter in any liquid. This may cause personal injury and/or damage to your scooter.



**NOTE** If the fuse continues to blow, an underlying electrical fault needs professional attention. Please contact an authorized Moving Life dealer.

**NOTE**

Do not replace the fuse repeatedly. You must correct the underlying problem. Failure to correct the problem could cause injury or damage and will void the warranty.

**REQUIRES TOOLS**

Do not attempt electrical repairs. Consult Moving Life or your authorized Moving Life dealer.

## Wheels and Tires

Your scooter is equipped with one front motor with solid tire and two rear wheels with solid tires. This means that there is no air in any of the tires. The tires are filled with foam and you will never have a flat tire even if you puncture the tire. If for any reason there is a need to replace a tire due to erosion or damage, please contact an authorized Moving Life dealer.

## Lubrication

There are two lubrication areas where a light spray of silicon lubricant should be applied every six months or more rapidly if opening and closing ATTO becomes more difficult to perform (you may use other light lubricant as long as they are not sticky or corrosive on aluminum and plastics).

Lubrication points are shown in Figure 66:

1. Seat post including tracks.
2. Wheel shafts.

Clean the areas to be lubricated with clean cloth leaving no fibers, sand or dust on the scooter. Once you are done lubricating and testing the scooter for proper and easy operation, clean the entire surrounding parts from lubricant residues.

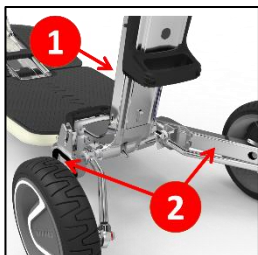


Figure 66

All of the bearings on your ATTO are permanently lubricated and sealed and therefore no lubrication is required.

## Battery




**WARNING** ATTO's battery holds a substantial amount of power. Shorting of the terminals can result in burns or other injuries and in damage to the battery and to the electronic components of your scooter. Always use care and caution when handling the battery.

## Battery & Charging

- These batteries are maintenance-free.
- Your scooter is be equipped with Li-ion battery, which does not have a “memory” issue and therefore it is not necessary to completely discharge the battery before recharging it.
- If you are not going to use your ATTO for an extended period of time, charge the batteries to 60% of full charge before storing your scooter. The batteries can be left unmaintained for up to 6 months if they are properly charged and kept at room temperature approximately 22 °C (~ 72° F).
- If you have not used your scooter for more than one month, make sure that you charge the batteries on the night before you are going to use your scooter. This will ensure that you start operating your scooter with a fully charged battery.
- There is no danger of spillage or leakage, so these batteries are safe to transport on aircrafts, busses, trains, etc.
- Following the procedures set out in this Owner's Manual will extend the life of your batteries.

- If electrical terminals on the scooter become corroded, they need to be cleaned by a certified Moving Life technician.
- If battery terminals become corroded, it has to be replaced with a new battery.

 **WARNING** FIRE HAZARD! Do not cover the battery charger and ventilation slot while charging your battery. Only use the battery charger in well-ventilated areas


## Cleaning, body care

ATTO's body is made of ABS parts, a durable plastic with integrated paint. To help ATTO retain high gloss you may clean it using clean cloth moistened with water.

## Storage

If you plan to not use your ATTO for an extended period, it is best to:

- Remove the battery pack from the scooter.
- Store your scooter in ambient, dry environment.
- Avoid storing your scooter where it will be exposed to temperature extremes.

 **WARNING** Always protect batteries from freezing temperatures and never charge a frozen battery. This damages the battery and can cause personal injury.

To use ATTO after an extended period of storage:

- Open ATTO if it was closed / folded during storage.
- Visually inspect all user adjustment levers, look for possible damage in plastic and metal parts, and ensure all moving parts works and has no evidence of corrosion. If you do find a part which do not function as expected or has corrosion, call a certified technician for advise how to continue.

- Insert the battery and turn ATTO on.
- Check that the display and all buttons works as expected. If you find no problems you may use ATTO, otherwise call a certified technician.

700-003987	Rear Handle (Tail)
700-003988	Seat Frame
700-003989	Back Upholstery
700-003990	Front Wheel Motor
700-003991	Rear Wheels
700-003992	Throttle
700-003993	Handgrip
700-003994	Telescope locking mechanism
700-003995	Pivot locking mechanism
700-003996	Chassis Locking Mechanism
700-004028	Battery Pack – BT25
700-004029	Battery Charger -A

## Disposal

Your scooter must be disposed of according to applicable local and national statutory regulations. Contact your local waste disposal agency or authorized Moving Life dealer for information on proper disposal of packaging, metal frame components, plastic components, electronics, and battery.

## Spare parts

The following spare parts can be purchased directly from Moving Life or from a local representative (check back cover for dealer contact information):

Part number	Description
700-003985	Controller
700-003986	Seat Upholstery

# SPECIFICATIONS

## Model

ATTO Mobility Scooter Type I

## Speed

ATTO's maximum speed (limited by software) is 6.4 km/h (4 mph). Maximum driving speed can be set to one of the presets by simply clicking a button and watching the indication on ATTO's clear view display.

## Weight

Part	Kg	Lbs
Front half	12	26.4
Rear half	16.2	35.7
Assembled *	28.2	62.2
Battery	1.85	4.1

\* Without the battery

## Weight Capacity

Maximum user weight is 100 Kg (220 Lbs).

## Dimensions

When folded, ATTO is the most compact mobility scooter in the world. Nevertheless, when open and ready to drive, ATTO is the largest and most comfortable in its category.

ATTO's dimensions, units in cm (inch):

Part	Height	Length	Width
Trolley mode	72 (28)	39 (15.3)	42 (16.5)
Drive mode	90 (35)	120 (47)	56 (22)

## Ground clearance

ATTO's minimum ground clearance is 10 cm (4").

## Front wheel drive motor

To allow smooth and continuous drive over many years and large distances, we developed a unique, fully customized, brushless, permanent magnet DC motor, combining solid core and powerful gear along with robust braking mechanism. Via sophisticated software algorithms the motor utilizes modern reverse charging techniques for deceleration and stopping providing smooth driving experience.

## Tires

PU filled non-pneumatic tires.

## Battery

ATTO uses a powerful, yet compact, lightweight advanced 48 Volts lithium-Ion battery. Weighing only 2 kg (4.4 lbs), the battery allows for more than 16 km (10 miles) of continuous driving while requiring only 4 hours (on average) to fully charge. You can charge ATTO on-board and off-board, meaning that you can (but do not have to), take the battery off the scooter in order to charge it. Removing the battery is as easy as pressing a

button. Reinstalling the battery is as easy as putting it back in place.

## Operating range

Battery model	Metric	Imperial
250 W/h	16 Km	10 Mile

## Charger

UL and CE approved Charger with self-shutdown functionality for safety and extended battery and charger lifetime.

## Controller

Unique Brushless DC Motor Controller. Genuine product by Moving Life Ltd. Unique LED Display with options of Dimming and a clear error display. Internal data and error log for easy maintenance and traceability. Moving Life Controller provide 10A continues working current with maximum of 30A peak.

## Turning Radius

1.35 meters (53”).

## Freewheel mode

Yes.

## Maximum incline

6 degrees.

## Height Restrictions

Preliminary tests show that a minimum height of 150 cm (5 Feet) is required for safe driving. This is NOT a formal recommendation, we have not concluded the tests yet, and you should check with your medical advisor.

## Environment

ATTO was designed and tested according to strict water resistance IP54 standard, requiring the equipment to be water resistant to splash from multiple angles, for a

long period of time and at high pressure. After taking a 50 litters shower ATTO continued to work with zero malfunctions, which guarantees resistance to normal outdoor conditions. Nevertheless, we recommend storing ATTO indoor to ensure maximal lifetime of high performance and for safety reasons use it only under dry weather conditions.

## Flammability

ATTO Is designed according to UL94 V-0.

## Responsibility of the Manufacturer

The manufacturer considers itself responsible for the effects on safety, reliability, and performance of the equipment only if:

- Calibration, service and repairs of the ATTO Mobility Scooter are carried out by Moving Life Ltd personnel, or anyone authorized by Moving Life Ltd.
- The equipment is used in accordance with instructions for use.



Owners and operators should always adhere to the following precautions:

- Refrain from modifying the ATTO Mobility Scooter hardware or software in any way.
- Never allow untrained personnel to operate the ATTO Mobility Scooter.
- Always report to Moving Life Ltd authorized representatives only.

# LIMITED WARRANTY

Moving Life warrants this product to be free from defects in materials and workmanship for the periods stated below under each limited warranty section.

If, within such warranty period, any such product shall be proven defective, such product shall be repaired or replaced at Moving Life's discretion. This warranty does not include any labor or shipping charges incurred in replacement part installation or repair of any such product.

Moving Life's sole obligation and your exclusive remedy under this warranty shall be limited to such repair and/or replacement.

For warranty service, please contact the authorized Moving Life dealer where you purchased your Moving Life product. In the event you do not receive satisfactory warranty service, please write directly to Moving Life at the address on the back cover, provide

authorized Moving Life dealer's name, address, date of purchase, indicate nature of the defect and, if the product or defect part carries a serial number, indicate the serial number. Do not return products to our factory or shipping center without our written prior consent.

## **THREE-YEAR LIMITED WARRANTY**

Structural frame components, including: mobility scooter chassis, steering mechanism, seat mechanism, rear wheels extensions, welds on entire products.

## **TWO-YEAR LIMITED WARRANTY**

All electronic parts, including controllers and battery chargers. Servicing to the controller or battery charger must be carried out by an authorized Moving Life dealer. Any attempt to open or dismantle these items renders the guarantee void on that item.

## **ONE-YEAR LIMITED WARRANTY**

Drivetrain, including: motor, front wheel fork and brake.

## **TWELVE MONTH LIMITED WARRANTY**

Batteries are covered by a twelve month warranty from the original manufacturer. Gradual deterioration in battery performance due to not following usage instructions specified in owner's manual or worn out through heavy use is not covered.

## **WARRANTY EXCLUSIONS**

- ABS plastic
- Seat upholstery
- Tires and tire tubes
- Repairs and/or modifications made to any part of the product or accessories without specific and prior written consent from Moving Life
- Circumstances beyond the control of Moving Life
- Damage caused by: battery malfunction, abuse, misuse, accident, or negligence, improper operation, maintenance, or storage, commercial use or use other than normal
- Labor, service calls, shipping, and other charges incurred for repair of the product
- If the serial number has been removed or defaced

Such evaluation will be solely determined by Moving Life .

Moving Life shall not be liable for any consequential or incidental damages whatsoever.

There is no other express warranty.

Implied warranties, including those of merchantability and fitness for a particular purpose, are limited to one (1) year from the date of original purchase and to the extent permitted by law. Any and all implied warranties are excluded. This is the exclusive remedy. Liabilities for consequential damages under any and all warranties are excluded.

This warranty gives you specific legal rights and you may also have other legal rights which vary from country/state to country/state.

Some countries and states do not allow limitations on how long an implied warranty lasts or do not allow the exclusion of limitation of incidental or consequential damages. Therefore, the above limitation or exclusion may not apply to you.

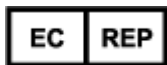
This warranty is extended only to the original purchaser/user of our products.

# CONTACT INFORMATION



## **Legal Manufacturer**

Moving Life Ltd.  
2 Haofe st.  
Kadima 6092000  
Israel



## **Authorized representative**

Obelis Group Ltd.  
Bd Général Wahis, 53,  
B-1030 Brussels  
Belgium

Authorized service facilities label

Serial number label

# NOTES

\*RG012\*

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