

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by Stewart Golf Limited could void the users authority to operate the equipment.

Stewart Golf Limited

The Coach House
Ryeford Road South
Kings Stanley
Gloucestershire
GL10 3HG
United Kingdom

Tel: +44 (0) 870 350 18 18

Fax: +44 (0) 870 350 18 19

Email: info@stewartgolf.com

Web: <http://www.stewartgolf.com>

Stewart Golf USA

24 Monument Square
Boston
MA
02129
United States of America

Tel: +1 877 783 9872

Email: info@stewartgolfusa.com

Web: <http://www.stewartgolfusa.com>

Stewart Golf Asia Pacific Pty Ltd

Level 21
201 Miller Street
North Sydney
NSW 2060
Australia

Tel: +61 1 300 738 381

Email: ask@stewartgolf.com

Web: <http://www.stewartgolf.com/aus/>



STEWART GOLF

X3R Owners Manual



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Welcome

Congratulations on your purchase of the X3R from Stewart Golf.

Please try to avoid the temptation of going straight out to the course to use your new X3R, and take a few minutes to read this manual so that you can get the best from your X3R.

- The first thing that you need to do is remove the battery and charger from their respective boxes and put the battery on charge. The battery is supplied fully charged, however as a precautionary measure it is recommended that you allow the battery to complete one full cycle before use (see page 13). This will ensure that the X3R will be able to complete its first full round without any power problems.
- The first time you use your X3R, use it on an area of open grass. The speeds and steering characteristics of the X3R will change on different surfaces. You will find that the X3R will steer very quickly on a hard, smooth car park but will behave differently on grass. The weight of a golf bag will also affect speed and steering.
- If you should ever suffer any problems or faults with your X3R, we will need to know the **serial number** of your trolley. This is located on the chassis, just next to the electronics box. Please make a note of the serial number here, so that it is at hand if you ever need to call us.

Serial Number: _____

Delivery Date: _____

**** IMPORTANT SAFETY INFORMATION ****

When using your X3R:

- in a car park or other crowded area, **always** steer it manually by holding onto the handle. This will ensure that you remain in control of the X3R and that it will not cause any unintended damage or injury.
- **be aware** of your surroundings. Ensure that you know the whereabouts of other players, trees, streams, bunkers and other objects.
- **never** aim the X3R at other people or golf trolleys

- **never** let it run out of your sight.

The Anatomy Of Your X3R

X3R is made from an innovative system of bonded composites and precision injection mouldings. The drawings below show the basic anatomy of the machine, with the major parts labeled. These parts will be referred to in this manual.



To Start Using Your New X3R

1. The X3R has two purpose designed lifting places, one being the anti-tip device and the other under the front of the chassis. **These are the only places from which you should lift the X3R.**
2. With the X3R placed on the floor, hold the handle and pull it up and towards you until both top and bottom clips snap into place.
3. Remove the **front cover** (fig 1). To do this, hold the 'S' logos on either side of the front cover, apply slight outward pressure and lift. The front cover can then be lifted completely away from the X3R.
4. Remove the battery from its box. The battery is already in the Stewart Golf carry case for your convenience.



5. Ensuring that the straps are out of the way, insert the battery into the chassis with the power lead facing forwards (fig 2) and secure with the straps.
6. Connect the battery and ensure that the **safety switch** is in the **'off'** position (the 'O').
7. Replace the front cover. Holding the front cover by the 'S' logos, line up the two lugs on the rear of the front cover with the corresponding parts of the rear cover, and then pivot it into place. Ensure that the front of the cover is behind the 'bump' on the chassis.
8. Make sure that the 'S' clips are secured to the chassis. Gently press the front cover down until it is secured in place.
9. With the lower bag strap out of the way and the top one only connected on one side, place your bag onto the lower bag stay and rest it against the top bag stay.
10. Using the large handle in the middle of the strap, pull the lower bag strap over the base of the golf bag. Using the handle means that you are less likely to trap your fingers.
11. Take the loose end of the top bag strap and pull it around the golf bag, then attach it to the clip on the other side.
12. Ensure that both wheels are in the 'drive' position (not in freewheel, page 9)
13. Operate as outlined in this manual.

Getting The Best From Your X3R

To get the most from your X3R, follow these hints and tips.

- When using the X3R in a car park or other crowded area, **always** steer it manually by holding onto the handle. This will ensure that you remain in control of the X3R and that it will not cause any unintended damage or injury.
- If you are going to leave your X3R unattended, turn the safety switch to the off position ('0'). The switch is located on the rear cover (fig 3).
- Your X3R is designed for use on the fairway. Do not attempt to drive the X3R through bunkers or deep puddles. **Do not** attempt to drive your X3R down steps or off high kerbs.
- When negotiating kerbs, you may need to assist the X3R by lifting the front or back. Under no circumstances should you try to make the X3R 'jump' up or down kerbs.



Fig 3: The safety switch shown

To Help Conserve Battery Power

- Try not to overload your bag. Extra weight in your golf bag will reduce the life of your battery and change the characteristics of the X3R's operation.
- Try to keep the X3R on the fairway, as long grass and rugged terrain will sap strength from the battery.
- When negotiating hills, try not to let the X3R 'pull' you.
- Make sure that you charge the battery as soon as possible after each round that you play. The supplied **CTEK** charger is designed to allow you to leave the battery on charge until your next round. **Failure to charge the battery within 24 hours of finishing a round can cause irreparable damage to the battery.**
- Avoid subjecting the battery to extremes of temperature, as this will shorten its life.
- **NEVER DROP THE BATTERY.** This can cause internal damage, which is both severely debilitating and irreparable.

X3R Handset Information

- Before you start, ensure that the **safety switch** is in the 'on' position (fig 3).



Fig 4: The X3R handset

- The **indicator light** will flash every time a signal is sent to the receiver.
- The red button in the middle of the directional controls is an **emergency brake**. Press and release to bring the X3R to an immediate stop. Do not use this as a matter of course as it may cause the X3R to skid. This function can also be used as a parking brake when on slopes, however it is still recommended that the X3R be parked 'across' a slope.
- Pressing the '**Off**' button will bring the X3R to a gradual stop. Use this for normal stopping.
- Pressing either the forward button, or any of the 4 **cruise control** buttons will set the X3R in forward motion.
- Once the X3R is in motion, continually pressing the **forward** or **back** buttons will either speed up or slow down the trolley respectively.
- The **Cruise Control** buttons are factory set; button 1 is the slowest with button 4 the fastest. You can also program your own walking speeds. See the Cruise control section for instructions.
- Holding either the left or right button down from stationary will make the X3R turn on the spot. Releasing the button will stop the caddy.
- The X3R's handset is designed to have an operating range of **50 metres**. This may be affected by factors such as atmospheric conditions, proximity to buildings, hills and trees, power lines and condition of the handset battery (which should be changed every year).
 - The handset uses a standard 9V PP3 battery. To replace this, remove the screws on the back of the controller and carefully separate the two halves.

Remove the old battery, and then press every button before connecting the new battery. Now carefully replace the two halves, ensuring that the battery lead is not obstructing location, and replace the screws, making sure they are not over-tightened.

Other X3R Information & Tips

- The hand controller transmits a 'stay awake' signal to the X3R every few seconds. If the caddy is out of range and does not receive a stay awake signal within ten seconds it will stop until it receives a valid signal from the handset. This means that your X3R should never run too far away from you. However,

you should never let the X3R out of your sight when playing.

- When taking a shot or negotiating a tight path, the handset can be clipped to the cradle (which can be attached to either side of the handle). You can then steer the X3R manually, while controlling its speed with your thumb. The clip on the back of the handset can also be used to attach the handset to a belt or pocket.
- The X3R handset is splash resistant but never allow it to be submerged in water (i.e. dropped in a puddle).
- Do not store the handset in your pocket. Loose change, for example, may engage one of the buttons and set the X3R in motion. Instead use the belt clip on the handset to attach the handset to a belt or pocket.
- When you are not using the X3R (for example, if you are in the pro shop or having lunch), either disconnect the battery or use the safety switch (located on the rear cover). This removes the possibility of accidentally engaging the motors.
- When the power has been disconnected and the X3R is not in use, we strongly recommend that **the handset be stored in your golf bag**. This will ensure that it is not damaged, and also that you will not forget to take it to the course!
- When **reversing** the X3R, it is necessary to stop it before commanding it to move forwards. Reverse has only one preset speed.
- If you are going to walk any distance away from the X3R (for example when putting or looking for a lost ball), take the handset with you. The handset is lightweight and can be easily clipped to a belt or pocket. You can then make the X3R drive to you.
- If you are a right-handed player, park the X3R to the right of the ball so that it does not interfere with your shot.



Fig 5: Handset clipped to

Cruise Control

To program your own walking speeds into the handset, simply follow the following instructions:

1. Use the speed up and slow down buttons to achieve your ideal walking pace.
2. Press and hold one of the numbered buttons until the indicator light flashes (approx 5 seconds).
3. To resume this speed simply press the preferred button
4. Please note that these speeds will change depending on bag weight, battery condition

Trim Adjustment

It is possible that after some use, the X3R may not travel in a straight line even on flat ground. The X3R has two motors which can wear unevenly, in this situation the **trim** may require adjustment.

This can be done from the handset by following these easy steps:

1. Ensure that your X3R is on a flat level surface. It is useful to align the caddy with a curb or object in the distance so that you know when the X3R is moving in a straight line.
2. Hold down the **'Off'** button for 5 seconds to activate the trim mode. The X3R will set off at a slow speed.
3. Use the left and right buttons until the caddy is traveling in a straight line.
4. Press the **emergency stop** button to store the new trim settings. The X3R will now operate as normal.

Declaration of Conformity

Hereby, Stewart Golf Limited, declares that the *'Radio transmitter and receiver'* is in compliance with the essential requirements and other relevant provisions of Directive 1999/05/EC. The declaration of conformity may be consulted at www.stewartgolf.com.

Quick Release Rear Wheels

The quick release mechanism has been designed for ease of use. To remove the wheel from the 'locked' position, just turn the handle 90 degrees **clockwise** so that the arrows point to the unlocked padlock. Now just lift the side of the X3R and pull off the wheel.

The X3R has a built in **freewheel setting** so that you can always finish your round even in the unlikely event of a fault. To engage this mode, move the handle **clockwise** to the 'unlock' symbol and move the wheel 15 to 20mm towards you. Now rotate the wheel by 90 degrees and push it back towards the motor until it stops. Turn the handle 90 degrees **anti-clockwise** to 'lock' and spin the wheel.



Fig 6: Operating the quick release mechanism.

Scorecard Holder



Fig 7: Using the scorecard on the X3R

The scorecard holder has been designed to accept most common sizes and shapes of scorecard. To use it, just lift the lid and slide your card under the two integrated clips. A pencil can be held under the clip at the front of the moulding. To close the lid, just press it down until you feel it clip.

Beverage Holder (Optional)

The beverage holder can be attached to either side of the handle with the simple thumbscrew. The covering cap can be easily removed by hand.

To adjust the base of the beverage holder to fit small cans:

- Hold the base and lift it so that it is above the larger ring
- Twist the base. The more you twist the base, the higher the beverage will sit.
- Drop it back through the larger ring
- This is quite simple but does take a little practice to perfect.



Towel Loop & Sunglass Holder

- There is provision on the X3R for you to place these items. See images below.
- To attach your sunglasses or spectacles, slide one arm through the loop until they rest on the hinge. Be aware that if the X3R is operating on rough terrain, e.g. a bumpy path, then it is possible for your glasses to 'bounce' out of the loop. This problem is much less of an issue on a smooth fairway.
- You can attach a towel to any of the loops in the same way that you would attach it to your bag.



When You Have Finished Your Round:

1. Remove one side of the top bag strap and then lift your golf bag away. The lower bag strap will release automatically.
2. Remove the front cover, disconnect and remove the battery, then replace the cover as described earlier. It is possible to leave the battery in place when transporting the X3R. **This is not recommended**, as lifting the combined weight of the X3R and battery can cause injury.
3. Release the top clip whilst supporting the handle and lower the handle until it comes to rest on the rear cover, Fig 11.
4. Now release both lower clips (by pressing the clips with your thumbs) simultaneously and



Fig 11: Releasing the top clip

slowly lower the parts until they nest together, Fig 12. Do not 'drop' either of the folding parts of the X3R.

5. Place the X3R into the travel bag (optional), with the logo on the bag facing **upwards**, Fig.13. The X3R has two purpose designed lifting places, one being the anti-tip device and the other under the front of the chassis. These are the **only** places from which you should lift the X3R.
6. Carefully lift the X3R into your car.
7. When transporting the battery, ensure that it is secured in place and not able to 'roll' from place to place.
8. **Charge the battery as soon as possible after a round**, following the guidelines in this manual (page 14).



Fig 12: Releasing the lower clips



Fig 13: X3R Travel Bag (Optional)

X3R Electronics System

Just in front of the battery enclosure lies the heart of the X3R: the microprocessor controlled electronics system. If your X3R should suffer a fault, there are four diagnostic lights on the electronics case, which are there to help you and us.

When you connect the battery, the electronics system will automatically run through a **start up routine**. This is indicated by all of the lights coming on for approximately 2 seconds. When the start up routine is complete, all of the lights will go out except the green 'power on' light. If the lights fail to go out, check that the safety switch is in the 'on' position. The safety switch should be used when you are leaving the X3 unattended for short periods of time, for example if you go into the pro shop or stop for a drink.



Fig 14: The X3R Electronics System

Green	Power On. This light will remain on all of the time that the battery is connected.
Red	Means that the battery is flat. In this situation, you can make use of the 'freewheel' position on the rear wheels and use the X3R like a regular trolley.
Yellow	Transmitter sending and receiving. Every time any of the control buttons are pressed this light will flash.
Red	Over temperature. Your X3R has overheated and the power has been temporarily isolated. As soon as a safe operating temperature is reached the light will go off and the caddy will be ready for use again. If you have persistent overheating problems then please contact Stewart Golf.
Both Red Lights	If both red lights are on then it means that the electronics have been overloaded. For example, accidentally leaving your X3R running when against a tree or wall will do this. The LED's will reset to normal when the problem is resolved.

All Lights The safety switch has been activated. The X3R will not respond to any signals until the switch is deactivated. If all lights are on and the safety switch is activated, you should contact us immediately.

Important: *The electronics box contains no user serviceable parts. The lid to the case is sealed to reduce the risk of water ingress. Breaking this seal increases the risk of moisture entering the case, and reduces the reliability of your X3R. No attempt should be made to open the case and doing so may invalidate the warranty.*

Battery

Your X3R has been supplied with a superior Gel technology battery. Correct treatment of the battery will result in increased life and better performance. Observing the following tips below will help achieve this.

- Treat the battery with care, as any damage can result in a dramatic reduction in the life of the battery. **NEVER DROP THE BATTERY**, this can cause internal damage, which is both irreparable and severely debilitating.
- The battery is supplied fully charged. However as a precautionary measure it is recommended that you allow the battery to charge for one full cycle before use.
- Always keep your battery on charge between games. If the battery is not used for long periods of time, every two weeks put the battery through a full charging procedure.
- Always recharge the battery as soon as possible after every round, and never leave it for more than 24 hours before charging.
- Even if you only complete a few holes, it is important to fully charge the battery.
- The battery is covered by a 1-year manufacturers warranty.
- When not using your X3 always disconnect the battery from the electronics and remove it from the battery compartment. ***Stewart Golf will not be responsible for any damage caused if the battery is left connected when not in use.***

Battery Charger

Stewart Golf has chosen the 7 Amp **CTEK XS 7000** charger because of its advanced technology and suitability for the Gel battery. The five step, fully automatic charge cycle with boost and float can actually increase the life and performance of the battery.



Fig 15: CTEK XS 7000

Charging The Battery

- To start the charge cycle, connect the battery to the charger **before** making the connection from charger to the mains.

- Once the power is connected correctly, the charger will automatically diagnose which type of charge the battery needs - you don't have to do anything!
- A full charge of the battery will take up to 8 hours.
- If the battery is connected to reverse polarity, no charging will take place.
- It is recommended that you leave your battery on charge until your next round. The charger will automatically go into a maintenance mode when the battery is fully charged.

Battery Charging Safety

Please follow these important safety tips when charging the battery. For more information please refer to the literature supplied with the charger.

- The charger is designed for batteries 14-225 Ah. Do not use for any other purposes.
- Always use safety glasses and turn your face away from the battery when making or breaking connections.
- A battery being charged could emit explosive gasses. Prevent flames and sparks close to the battery.
- Always provide proper ventilation when charging.
- Avoid covering the charger.
- Battery acid is corrosive. Rinse immediately with water if acid comes into contact with skin or eyes. Seek medical advice.
- Do not charge a frozen battery.
- Never operate a damaged charger.
- Never place the charger on top of the battery when charging.
- Always check that the charger has gone into maintenance mode before leaving the charger unattended and connected for long periods. If the charger has not gone into maintenance after 72 hours, this is an indication of an error. In this case the charger must be disconnected manually.
- All batteries fail eventually. A battery that fails during charging is normally taken care of by the chargers advanced control, but some rare errors in the battery could still exist. Do not leave any battery unattended for a long period of time.
- **For more details about the charger, please consult the literature supplied in the CTEK box. Alternatively please visit <http://www.ctek.se>**

After Sales Service & Warranty

The **X3R** unit and battery are guaranteed to be free from defects in materials or workmanship for a period of one (1) year after delivery. If you have any problems with your X3R, all you have to do is contact Stewart Golf. We will do everything we can to make good any problems and get you back on the course as quickly as possible.

If you have a problem that cannot be easily solved over the telephone, we will arrange collection of the X3R from a place of your choosing (home or work for example). When we receive your X3R, we will repair or replace it, then have it delivered back to you as quickly as possible. We recommend that you keep the box that your X3R came in, in case you ever need to return it. For your convenience, the boxes can be flat packed for storage.

Please note: Faults due to accidental damage, wear and tear, misuse or modification of the standard products are not covered by this warranty. You must report any fault to Stewart Golf as soon as it is noticed. Further information regarding the terms and conditions of the warranty can be found on the warranty card supplied with your X3R.

Returning Your X3R To Stewart Golf

If your address is within the United Kingdom and you agree to use a carrier nominated by Stewart Golf, we shall bear the associated carriage costs. If your address is outside the United Kingdom, you shall bear the associated carriage costs. In this instance it may still be beneficial for you to contact Stewart Golf as we receive preferential rates from our nominated carrier.

Maintenance

The X3R has been designed so that you as a user can concentrate on playing golf. To keep your X3R looking its best, we advise that you wipe any loose mud or grass from the covers and chassis after every round. Cleaning is best performed with a soft, damp cloth. Do not use a hard bristled brush as this may scratch the material surface. **Do not** use any

high-pressure jet washers as this increases the possibility of moisture entering the motors, gearboxes and electronics.

Trouble Shooting Guide

Problem	Possible Cause	Explanation/Solution
The X3R is not responding to button presses	Battery not connected	Connect the main battery to the electronics box (page 4)
	Safety switch is off	Turn the switch on. The Safety Switch is located on the rear cover (page 5)
	Transmitter battery is flat	Replace the 9V battery (page 6)
	The main battery is flat	Allow the charger to complete an entire cycle (page 13/14)
	You may be out of range	The X3R has a range of 50m, but the range can also be affected by numerous other factors.
I can hear the motors working but the trolley is not moving	Rear wheels may be in freewheel mode	Use the quick release mechanism to take the rear wheels off freewheel (page 9)
I find it difficult to push my X3R	Freewheel mode is not engaged	Use the quick release mechanism to put the rear wheels onto freewheel mode (page 9)
My X3R occasionally starts without me pressing a button	Strong interference	The X3R may sometimes react to interference, however the electronics will recognise this and quickly stop the X3R.
I have lost my X3R handset		Please contact Stewart Golf and we can arrange for a replacement. There may be a charge for this service.
The X3R moves in circles when pressing the forwards button	One wheel engaged, one in freewheel mode	Ensure that both wheels are not in the freewheel position (page 9).
The X3R does not travel in a straight line even on flat ground	Motors have become imbalanced	Follow the 'trim adjustment' instructions on page 8