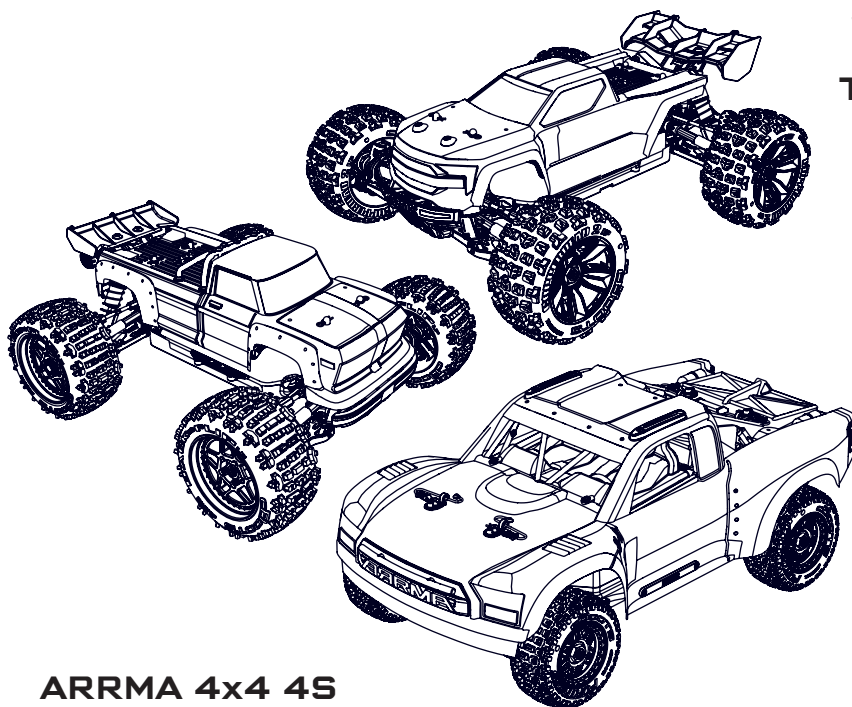


# ARRMA®

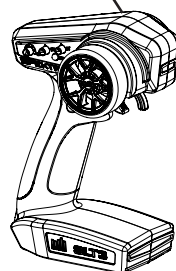
## 4x4 4S BLX

### GET STARTED!

#### WHAT'S INCLUDED?



**SPEKTRUM  
SLT3  
TRANSMITTER**



**ARRMA 4x4 4S  
BLX VEHICLE**

**REQUIRED:**

**LiPo BATTERY  
(2x2S, 1x3S or  
1x4S)  
LiPo CHARGER**

## WWW.ARRMA-RC.COM



## WARNINGS

### NOTICE

All instructions, warranties and other collateral documents are subject to change at the sole discretion of Horizon Hobby, LLC. For up-to-date product literature, visit [www.horizonhobby.com](http://www.horizonhobby.com) or [www.towerhobbies.com](http://www.towerhobbies.com) and click on the support or resources tab for this product.

### MEANING OF SPECIAL LANGUAGE

The following terms are used throughout the product literature to indicate various levels of potential harm when operating this product:

**WARNING:** Procedures, which if not properly followed, create the probability of property damage, collateral damage, and serious injury OR create a high probability of superficial injury.

**CAUTION:** Procedures, which if not properly followed, create the probability of physical property damage AND a possibility of serious injury.

**NOTICE:** Procedures, which if not properly followed, create a possibility of physical property damage AND little or no possibility of injury.



**WARNING:** Read the ENTIRE instruction manual to become familiar with the features of the product before operating. Failure to operate the product correctly can result in damage to the product, personal property and cause serious injury.

This is a sophisticated hobby product and NOT a toy. It must be operated with caution and common sense and requires some basic mechanical ability. Failure to operate this product in a safe and responsible manner could result in injury or damage to the product or other property. This product is not intended for use by children without direct adult supervision. Do not use with incompatible components or alter this product in any way outside of the instructions provided by Horizon Hobby, LLC. This manual contains instructions for safety, operation and maintenance. It is essential to read and follow all the instructions and warnings in the manual, prior to assembly, setup or use, in order to operate correctly and avoid damage or serious injury.

**Age Recommendation: Not for children under 14 years. This is not a toy.**

## SAFETY PRECAUTIONS AND WARNINGS

As the user of this product, you are solely responsible for operating in a manner that does not endanger yourself and others or result in damage to the product or property of others.

This model is controlled by a radio signal subject to interference from many sources outside your control. This interference can cause momentary loss of control, so it is advisable to always keep a safe distance in all directions around your model as this margin will help avoid collisions or injury.

- Never operate your model with low transmitter batteries.
- Always operate your model in open spaces away from full-size vehicles, traffic and people.
- Never operate the model in the street or in populated areas for any reason.
- Carefully follow the directions and warnings for this and any optional support equipment (chargers, rechargeable battery packs, etc.) you use.
- Keep all chemicals, small parts and anything electrical out of

the reach of children.

- Never lick or place any portion of the model in your mouth as it could cause serious injury or even death.
- Exercise caution when using tools and sharp instruments.
- Take care during maintenance as some parts may have sharp edges.
- Immediately after using your model, do NOT touch equipment such as the motor, electronic speed control and battery, because they generate high temperatures. You may burn yourself seriously by touching them.
- Do not put fingers or any objects inside rotating and moving parts, as this may cause damage or serious injury.
- Always turn on your transmitter before you turn on the car. Always turn off the car before turning your transmitter off.
- Keep the wheels of the model off the ground when checking the operation of the radio equipment.



**WARNING AGAINST COUNTERFEIT PRODUCTS:** Always purchase from a Horizon Hobby, LLC authorized dealer to ensure authentic high-quality Spektrum product. Horizon Hobby, LLC disclaims all support and warranty with regards, but not limited to, compatibility and performance of counterfeit products or products claiming compatibility with DSM or Spektrum technology.

## WATER-RESISTANT VEHICLE WITH WATERPROOF ELECTRONICS

Your new Horizon Hobby vehicle has been designed and built with a combination of waterproof and water-resistant components to allow you to operate the product in many “wet conditions,” including puddles, creeks, wet grass, snow and even rain.

While the entire vehicle is highly water-resistant, it is not completely waterproof and your vehicle should NOT be treated like a submarine. The various electronic components used in the vehicle, such as the Electronic Speed Control (ESC), servo(s) and receiver are waterproof, however, most of the mechanical components are water-resistant and should not be submerged.

Metal parts, including the bearings, hinge pins, screws and nuts, as well as the contacts in the electrical cables, will be susceptible to corrosion if additional maintenance is not performed after running in wet conditions. To maximize the long-term performance of your vehicle and to keep the warranty intact, the procedures described in the “Wet Conditions Maintenance” section below must be performed regularly if you choose to run in wet conditions. If you are not willing to perform the additional care and maintenance required, then you should not operate the vehicle in those conditions.



**CAUTION:** Failure to exercise caution while using this product and complying with the following precautions could result in product malfunction and/or void the warranty.

### General Precautions

- Read through the wet conditions maintenance procedures and make sure that you have all the tools you will need to properly maintain your vehicle.
- Not all batteries can be used in wet conditions. Consult the battery manufacturer before use. Caution should be taken when using Li-Po batteries in wet conditions.
- Most transmitters are not water-resistant. Consult your transmitter’s manual or the manufacturer before operation.
- Never operate your transmitter or vehicle where lightning may be present.
- Do not operate your vehicle where it could come in

contact with salt water (ocean water or water on salt-covered roads), contaminated or polluted water. Salt water is very conductive and highly corrosive, so use caution.

- Even minimal water contact can reduce the life of your motor if it has not been certified as water-resistant or waterproof. If the motor becomes excessively wet, apply very light throttle until the water is mostly removed from the motor. Running a wet motor at high speeds may rapidly damage the motor.
- Driving in wet conditions can reduce the life of the motor. The additional resistance of operating in water causes excess strain. Alter the gear ratio by using a smaller pinion or larger spur gear. This will increase torque (and motor life) when running in mud, deeper puddles, or any wet conditions that will increase the load on the motor for an extended period of time.

### Wet Conditions Maintenance

- Remove the battery pack(s) and dry the contacts. If you have an air compressor or a can of compressed air, blow out any water that may be inside the recessed connector housing.
- Remove the tires/wheels from the vehicle and gently rinse the mud and dirt off with a garden hose. Avoid rinsing the bearings and transmission.

**NOTICE:** Never use a pressure washer to clean your vehicle.

- Use an air compressor or a can of compressed air to dry the vehicle and help remove any water that may have gotten into small crevices or corners.
- Spray the bearings, drive train, fasteners and other metal parts with a water-displacing light oil or lubricant. Do not spray the motor.
- Let the vehicle air dry before you store it. Water (and oil) may continue to drip for a few hours.
- Increase the frequency of disassembly, inspection and lubrication of the following:
  - Front and rear axle hub assembly bearings.
  - All transmission cases, gears and differentials.
  - Motor—clean with an aerosol motor cleaner and re-oil the bearings with lightweight motor oil.
- Drain any water that has collected in the tires by spinning them at high speed. With the body removed, place the vehicle upside down and pull full throttle for a few short bursts until the water has been removed.



## WARNUNG

### HINWEIS

Alle Anweisungen, Garantien und dazugehörigen Dokumente können ohne Ankündigung von Horizon Hobby, LLC geändert werden. Eine aktuelle Version ansehen Sie bitte im Support Feld unter: <http://www.horizonhobby.com> / <http://www.towerhobbies.com>

### ERKLÄRUNG DER BEGRIFFE

Begriffe werden in der gesamten Produktliteratur verwendet, um auf unterschiedlich hohe Gefahrenrisiken beim Betrieb dieses Produkts hinzuweisen:

**WARNUNG:** Wenn diese Verfahren nicht korrekt befolgt werden, ergeben sich wahrscheinlich Sachschäden, Kollateralschäden und schwere Verletzungen ODER mit hoher Wahrscheinlichkeit oberflächliche Verletzungen.

**ACHTUNG:** Wenn diese Verfahren nicht korrekt befolgt werden, ergeben sich wahrscheinlich Sachschäden UND die Gefahr von schweren Verletzungen.

**HINWEIS:** Wenn diese Verfahren nicht korrekt befolgt werden, können sich möglicherweise Sachschäden UND geringe oder keine Gefahr von Verletzungen ergeben.



**WARNUNG:** Lesen Sie die GESAMTE Bedienungsanleitung, um sich vor dem Betrieb mit den Produktfunktionen vertraut zu machen. Wird das Produkt nicht korrekt betrieben, kann dies zu Schäden am Produkt oder persönlichem Eigentum führen oder schwere Verletzungen verursachen.

Dies ist ein hochentwickeltes Hobby-Produkt. Es muss mit Vorsicht und gesundem Menschenverstand betrieben werden und benötigt gewisse mechanische Grundfähigkeiten. Wird dieses Produkt nicht auf eine sichere und verantwortungsvolle Weise betrieben, kann dies zu Verletzungen oder Schäden am Produkt oder anderen Sachwerten führen. Verwenden Sie das Produkt nicht mit inkompatiblen Komponenten oder verändern es in jedweder Art ausserhalb der von Horizon Hobby, LLC vorgegebenen Anweisungen. Diese Bedienungsanleitung enthält Anweisungen für Sicherheit, Betrieb und Wartung. Es ist unbedingt notwendig, vor Zusammenbau, Einrichtung oder Verwendung alle Anweisungen und Warnhinweise im Handbuch zu lesen und zu befolgen, damit es bestimmungsgemäß betrieben werden kann und Schäden oder schwere Verletzungen vermieden werden.

**Nicht geeignet für Kinder unter 14 Jahren. Dies ist kein Spielzeug.**

## SICHERHEITSHINWEISE UN WARNUNGEN

Als Nutzer dieses Produktes, sind Sie allein verantwortlich, es in einer Art und Weise zu benutzen, die eine eigene Gefährdung und die anderer oder Beschädigung an anderem Eigentum ausschließt.

Das Modell ist ferngesteuert und anfällig für bestimmte äußere Einflüsse. Diese Einflüsse können zum vorübergehenden Verlust der Steuerfähigkeit führen, so dass es immer sinnvoll ist genügend Sicherheitsabstand in alle Richtungen um das Modell zu haben.

- Fahren Sie das Modell nie mit fast leeren oder schwachen Senderbatterien.
- Betreiben Sie Ihr Modell stets auf offenen Geländen, weit ab von Automobilen, Verkehr und Menschen.
- Fahren Sie Ihr Modell nicht auf der Straße oder belebten Plätzen.
- Beachten Sie vorsichtig alle Hinweise und Warnungen für das Modell und allen dazu gehörigen Equipment.
- Halten Sie alle Chemikalien, Kleinteile und elektrische

Bauteile aus der Reichweite von Kindern.

- Lecken Sie niemals an Teilen von Ihrem Modell oder nehmen diese in den Mund, da diese Sie ernsthaft verletzen oder töten können.
- Seien Sie immer aufmerksam wenn Sie Werkzeug oder scharfe Instrumente verwenden.
- Seien Sie bei dem Bau vorsichtig, da einige Teile scharfe Kanten haben könnten.
- Fassen Sie bitte unmittelbar nach dem Betrieb nicht den Motor, Regler oder Akku an, da diese Teile sich sehr erwärmen können und Sie sich bei dem berühren ernsthaft verbrennen können.
- Fassen Sie nicht in drehende oder sich bewegende Teile, da sich sich ernsthaft dabei verletzen können.
- Schalten Sie immer zuerst den Sender ein, bevor Sie den Empfänger im Fahrzeug einschalten.
- Stellen Sie das Fahrzeug mit den Rädern nicht auf den Boden, wenn Sie die Funktionen überprüfen.



**WARNUNG GEGEN GEFÄLSCHTE PRODUKTE:** Sollten Sie jemals eine Spektrum Komponente ersetzen wollen, kaufen Sie die benötigten Ersatzteile immer bei Horizon Hobby oder einem von Horizon hobby autorisiertem Händler um die hohe Qualität des Produktes zu gewährleisten. Horizon Hobby LLC lehnt jedwede Haftung, Garantie oder Unterstützung sowie Kompatibilitäts- oder Leistungsansprüche zu DSM oder Spektrum in Zusammenhang mit gefälschten Produkten ab.

## WASSERFESTES FAHRZEUG MIT SPRITZWASSERGESCHÜTZTER ELEKTRONIK

Y neues Horizon Hobby Fahrzeug wurde mit einer Kombination von wasserfesten und spritzwassergeschützten Komponenten ausgestattet, die den Betrieb des Fahrzeuges unter nassen Bedingungen inklusive Pfützen, Bächen, nassem Gras, Schnee oder sogar Regen ermöglichen.

Obwohl das Fahrzeug sehr wasserfest ausgelegt ist, ist es nicht vollständig wasserdicht und sollte NICHT wie ein U-Boot behandelt werden. Etliche in diesem Fahrzeug eingesetzte elektronische Komponenten sind wasserdicht, wie der Fahrtregler und das Servos. Die mechanischen Komponenten sind jedoch nur wasserabstoßend und sollten deshalb nicht untergetaucht werden.

Metallteile, inklusive Lager, Bolzen Schrauben und Muttern wie auch die Kontakte in den elektrischen Kabeln sind für Korrosion anfällig wenn nicht zusätzliche Wartung nach jedem Betrieb in feuchter/nasser Umgebung erfolgt. Um die Langzeitleistung und die Garantie ihres Fahrzeuges zu erhalten müssen Sie die Wartung wie in der Wartungsanleitung nach Fahrten in nasser Umgebung beschrieben durchführen. Sollten Sie diese zusätzliche Wartung nicht ausführen wollen, dürfen Sie ihr Fahrzeug unter diesen Bedingungen nicht betreiben.



**ACHTUNG:** Unaufmerksamkeit während des Betriebes des Produktes in Zusammenhang mit den folgenden Sicherheitshinweisen kann zu Fehlfunktionen und dem Verlust der Garantie führen.

### Allgemeine Sicherheitshinweise

- Bitte lesen Sie sich die Wartungsanleitung nach Fahrten in nasser Umgebung sorgfältig durch und stellen sicher, dass Sie alle Werkzeuge für eine Wartung des Fahrzeuges haben.
- Sie können nicht alle Akkutypen für Fahrten in nasser Umgebung nutzen. Fragen Sie dazu vor dem Einsatz den Hersteller des Akkus. Verwenden Sie keine LiPo Akkus in nasser Umgebung.
- Der enthaltene Sender ist weder wasserabweisend noch wasserdicht. Wenn Sie einen anderen Sender verwenden wollen, prüfen Sie die Anleitung für diesen Sender oder fragen Sie beim Hersteller nach.
- Nehmen Sie niemals den Sender bei Blitzen oder Gewitter in Betrieb.
- Betreiben Sie ihr Fahrzeug nicht an Orten wo es in Kontakt mit Salzwasser oder verschmutzten, belasteten Gewässern kommen kann. Salzwasser ist sehr leitend

und stark korrosionsfördernd, sein Sie daher sehr achtsam.

- Schon geringer Wasserkontakt kann den Motor beschädigen wenn er nicht für den Betrieb in Wasser ausgelegt ist. Sollte der Motor nass geworden sein geben Sie etwas Gas bis die meiste Feuchtigkeit vom Motor entfernt ist. Lassen Sie einen nassen Motor auf hoher Geschwindigkeit laufen wird dieses den Motor sehr schnell beschädigen.
- Fahren in nasser Umgebung kann die Lebenszeit des Motors reduzieren, da dieses den Motor stark beansprucht. Verändern Sie die Untersezung
- zu einem kleinerem Ritzel oder größeren Zahnrad. Dieses erhöht das Drehmoment (und verlängert die Motorlebensdauer) bei dem Betrieb in Matsch, tieferen Pfützen oder anderen Bedingungen, die die Last des Motors für einen längeren Zeitraum erhöhen.

### Wartungsanleitung nach Fahrten in nasser Umgebung

- Entfernen Sie die Akkupsacks und trocknen die Kontakte. Sollten Sie einen Kompressor oder Druckluft zur Verfügung haben, blasen Sie damit das Wasser aus dem Motorgehäuse.
- Nehmen Sie die Reifen und Felgen vom Fahrzeug ab und spülen vorsichtig Sie mit einem Gartenschlauch ab.

**HINWEIS:** Verwenden Sie keinen Hochdruckreiniger um das Fahrzeug zu reinigen.

- Reinigen Sie das Fahrzeug mit Druckluft aus einem Kompressor oder einer Druckluftflasche und entfernen so das Wasser aus den Spalten und Ecken.
- Sprühen Sie alle Lager, Befestigungen und andere Metallteile mit einem wasserverdrängendem Leichtöl oder Schmiermittel ein. Sprühen Sie nicht den Motor ein.
- Lassen Sie das Fahrzeug vor dem Einlagern vollständig trocknen. Das Abtropfen von Wasser (und Öl) kann durchaus ein paar Stunden dauern.
- Erhöhen Sie die Wartungsintervalle (Demontage, Inspektion und schmieren) von folgenden Komponenten:
  - Vorder- und Hinterachse, Aufnahme und Lager.
  - Alle Antriebswellen Lager, Gehäuse, Getriebe und Differentiale.
  - Motor: reinigen Sie den Motor mit einen Aerosol Reiniger und ölen Sie dann die Lager mit leichtem Motoröl.
- Entfernen Sie Wasser in den Reifen durch Gas geben. Nehmen Sie die Karosserie ab, drehen das Fahrzeug auf den Kopf und geben ein paar Mal kurz Vollgas bis das Wasser aus dem Reifen entfernt ist.



## AVERTISSEMENTS

### REMARQUE

Toutes les instructions, garanties et autres documents de garantie sont sujets à modification à la seule discrétion de Horizon Hobby, LLC. Veuillez, pour une documentation produit bien à jour, visiter le site <http://www.horizonhobby.com> / <http://www.towerhobbies.com>.

internet

### SIGNIFICATION DE CERTAINS MOTS

Les termes suivants servent, tout au long de la littérature produits, à désigner différents niveaux de blessures potentielles lors de l'utilisation de ce produit:

**AVERTISSEMENT** : procédures qui, si elles ne sont pas suivies correctement, peuvent entraîner des dégâts matériels, des dommages collatéraux et des blessures graves OU engendrer une probabilité élevée de blessure superficielle.

**ATTENTION** : procédures qui, si elles ne sont pas suivies correctement, peuvent entraîner des dégâts matériels ET des blessures graves.

**REMARQUE** : procédures qui, si elles ne sont pas suivies correctement, peuvent entraîner des dégâts matériels ET éventuellement un faible risque de blessures.



**AVERTISSEMENT** : Lisez la TOTALITE du manuel d'utilisation afin de vous familiariser avec les caractéristiques du produit avant de le faire fonctionner. Une utilisation incorrecte du produit peut avoir comme résultat un endommagement du produit lui-même, celui de propriétés personnelles voire entraîner des blessures graves. Ceci est un produit de loisirs perfectionné et NON PAS un jouet. Il doit être manipulé avec prudence et bon sens et requiert quelques aptitudes de base à la mécanique. L'incapacité à manipuler ce produit de manière sûre et responsable peut provoquer des blessures ou des dommages au produit ou à d'autres biens. Ce produit n'est pas destiné à être utilisé par des enfants sans la surveillance directe d'un adulte. N'essayez pas de modifier ou d'utiliser ce produit avec des composants incompatibles hors des instructions fournies par Horizon Hobby, LLC. Ce manuel comporte des instructions de sécurité, d'utilisation et d'entretien. Il est capital de lire et de respecter toutes les instructions et avertissements du manuel avant l'assemblage, le réglage ou l'utilisation afin de le manipuler correctement et d'éviter les dommages ou les blessures graves.

## 14 ans et plus. Ceci n'est pas un jouet.

### PRÉCAUTIONS ET AVERTISSEMENTS LIÉS À LA SÉCURITÉ

En tant qu'utilisateur de ce produit, il est de votre seule responsabilité de le faire fonctionner d'une manière qui ne mette en danger ni votre personne, ni de tiers et qui ne provoque pas de dégâts au produit lui-même ou à la propriété d'autrui.

Ce modèle est contrôlé par un signal radio, qui peut être soumis à des interférences provenant de nombreuses sources hors de votre contrôle. Ces interférences peuvent provoquer une perte momentanée de contrôle. Il est donc conseillé de garder une bonne distance de sécurité tout autour de votre modèle, ce qui aidera à éviter les collisions ou les blessures.

- Ne faites jamais fonctionner votre modèle lorsque les batteries de l'émetteur sont faibles.
- Faites toujours fonctionner votre modèle dans une zone dégagée, à l'écart des voitures, de la circulation ou de personnes.
- Ne faites jamais et pour quelque raison que ce soit fonctionner votre modèle dans la rue ou dans des zones habitées.
- Respectez scrupuleusement les instructions et avertissement à cet effet ainsi que pour tous les équipements optionnels/complémentaires (chargeurs,

packs de batteries rechargeables, etc.) que vous utilisez.

- Tenez tous les produits chimiques, les petites pièces et les composants électroniques hors de portée des enfants.
- Ne léchez ni ne mettez jamais en bouche quelque partie de votre modèle que ce soit, afin d'éviter tout risque de blessures graves, voire danger de mort.
- Faites bien attention lors de l'utilisation d'outils et lors de l'utilisation d'instruments coupants.
- Faites bien attention lors du montage, certaines pièces peuvent avoir des bords coupants.
- Après avoir utilisé votre modèle, NE touchez PAS à certaines de ces pièces telles que le moteur, le contrôleur électronique de vitesse et la batterie, car elles peuvent encore se trouver à des températures élevées. Vous risquez de vous brûler gravement en cas de contact avec elles.
- Ne mettez ni vos doigts ni aucun autre objet entre des pièces en rotation ou en mouvement, vous risqueriez des dommages ou des blessures graves.
- Allumez toujours votre émetteur avant d'allumer le récepteur du véhicule. Éteignez toujours le récepteur avant d'éteindre votre émetteur.
- Veillez à ce que les roues du modèle ne soient pas en contact avec le sol lorsque vous contrôlez le fonctionnement de votre équipement radio.



**ATTENTION aux contrefaçons.** Nous vous remercions d'avoir acheté un véritable produit Spektrum. Toujours acheter chez un revendeur officiel Horizon hobby pour être sûr d'avoir des produits authentiques. Horizon Hobby décline toute garantie et responsabilité concernant les produits de contrefaçon ou les produits se disant compatibles DSM ou Spektrum.

## VÉHICULE RÉSISTANT À L'EAU ÉQUIPÉ D'UNE ÉLECTRONIQUE ÉTANCHE

Votre nouveau véhicule Horizon Hobby a été conçu et fabriqué en combinant des composants étanches et des composants résistants à l'eau vous permettant d'utiliser ce produit dans plusieurs "Conditions Humides" incluant les flaques d'eau, les ruisseaux, l'herbe humide, la neige et même la pluie.

Bien que le véhicule possède une grande résistance vis à vis de l'eau, il n'est pas entièrement étanche et votre véhicule ne doit PAS être utilisé comme un sous-marin. Les composants électroniques utilisés sur ce véhicule comme le variateur électronique et le servo sont étanches, cependant, la majorité des éléments mécaniques est résistante à l'eau mais ne doit pas être immergée.

Les pièces métalliques comme les roulements, les axes de suspension, les vis et les écrous ainsi que les contacts des prises des câbles électriques sont exposés à l'oxydation si vous n'effectuez un entretien supplémentaire après avoir utilisé le produit dans des conditions humides. Pour conserver à long terme les performances de votre véhicule et conserver la garantie, les procédures décrites dans la section « Maintenance en conditions humides » doivent être régulièrement effectuées si vous roulez dans des conditions humides. Si vous ne souhaitez pas effectuer la maintenance supplémentaire requise, n'utilisez pas le véhicule dans ces conditions.



**ATTENTION :** Un défaut de soin durant l'utilisation et un non-respect des consignes suivantes peut entraîner un dysfonctionnement du produit et/ou annuler la garantie.

### Précautions générales

- Lisez avec attention les procédures de maintenance en conditions humides et vérifiez que vous possédez tous les outils nécessaires pour effectuer la maintenance du véhicule.
- Toutes les batteries ne peuvent être utilisées en conditions humides. Consultez la documentation du fabricant de votre batterie avant utilisation. N'utilisez pas des batteries Li-Po dans des conditions humides.
- L'émetteur inclus n'est ni étanche ni résistant à l'eau. Si vous utilisez un émetteur différent que celui inclus, consultez le manuel de l'émetteur ou prenez contact avec son fabricant avant utilisation.
- N'utilisez jamais votre émetteur ou votre véhicule sous un orage.
- N'utilisez JAMAIS votre véhicule où il pourrait entrer en contact avec de l'eau salée (Eau de mer ou flaque d'eau

sur une route salée), ou de l'eau polluée ou contaminée.

- Une petite quantité d'eau peut réduire la durée de vie du moteur s'il n'est pas certifié étanche ou résistant aux projections d'eau. Si le moteur devient excessivement humide, appliquez légèrement les gaz pour évacuer le maximum d'eau du moteur. Faire tourner à un régime élevé un moteur humide causerait son endommagement rapide.
- L'utilisation en conditions humides peut réduire la durée de vie de vie du moteur. La résistance de l'eau cause des efforts plus importants. Adaptez le rapport de transmission en utilisant un pignon plus petit ou une couronne plus grande. Cela augmentera le couple (et la durée de vie du moteur) quand vous roulez dans la boue, dans les flaques profondes ou n'importe quelle autre condition humide, cela augmente la charge appliquée au moteur.

### Maintenance en conditions humides

- Retirez la batterie et séchez ses contacts. Si vous possédez un compresseur d'air ou une bombe d'air compressé, chassez toute l'humidité qui se trouve dans la prise.
- Retirez les roues du véhicule et rincez-les à l'aide d'un arrosoir pour retirer la boue et la poussière. Evitez de rincer les roulements et la transmission.

**REMARQUE :** N'utilisez jamais un nettoyeur haute pression pour nettoyer le véhicule.

- Utilisez un compresseur d'air ou une bombe d'air compressée pour sécher le véhicule et vous aider à retirer l'eau logée dans les renforcements et les recoins.
- Vaporisez du lubrifiant ou de l'anti-humidité sur les roulements, les vis ou autres pièces métalliques. Ne pas en vaporiser sur le moteur.
- Laissez le véhicule sécher avant de le stocker. L'eau (et l'huile) peuvent continuer à s'écouler durant quelques heures.
- Augmentez la fréquence d'inspection, de démontage et de lubrification des éléments suivants :
  - Les axes de roues et roulements des fusées avant et arrière.
  - Tous les boîtiers de transmissions, pignons et différentiels.
  - Le moteur—nettoyez-le à l'aide d'un aérosol de nettoyage moteur et lubrifiez les paliers à l'aide de lubrifiant pour roulements.
- Evacuez l'eau collectée par les pneus en les faisant tourner à haute vitesse. Retirez la carrosserie, retournez le véhicule et donnez des courts coups d'accélérateur plein gaz jusqu'à ce que l'eau soit retirée.



## Support

At ARRMA we want you to love running your kit and make owning a high performance RC car as simple as possible. If you have any questions about running, maintaining, tuning or repairing your ARRMA product there are three options for you to use to get help and advice. Visit [ARRMA-RC.com](http://ARRMA-RC.com) for support, parts and upgrades for your kit. If you can't find what you're looking for then you can always email us at [supportUSA@ARRMA-RC](mailto:supportUSA@ARRMA-RC) (USA) or [support@ARRMA-RC.com](mailto:support@ARRMA-RC.com) (ROW) 24hrs a day and we will do our best to help you with your query.



## Hilfestellung

Bei ARRMA möchten wir, dass Sie lange Freude an Ihrem High-Performance-RC-Modell haben. Sollten Sie Fragen zu Betrieb, Wartung, Tuning oder Reparatur haben, dann bieten wir eine Fülle von Möglichkeiten. Gehen Sie auf [arrma-rc.com](http://arrma-rc.com), um mehr über Hilfestellung, Teile oder Tuningteile zu erfahren. Sollten Sie einmal keine Antworten finden, dann kontaktieren Sie uns über [supportUSA@ARRMA-RC](mailto:supportUSA@ARRMA-RC) (USA) oder [support@arrma-rc.com](mailto:support@arrma-rc.com) (ROW) und wir werden alles tun, um Ihnen helfen zu können.



## Support

Chez ARRMA notre volonté est que vous appréciiez faire évoluer votre voiture et vous faire posséder une modèle RC de haute performance aussi simple que possible. Si vous avez des questions concernant le fonctionnement, la maintenance, le réglage ou la réparation de votre produit ARRMA, il y a trois possibilité que vous pouvez utiliser pour obtenir l'aide et des conseils. Visitez [ARRMA-RC.com](http://ARRMA-RC.com) pour la prise en charge, des pièces et des mises à niveau de votre kit. Si vous ne trouvez pas ce que vous recherchez, vous pouvez toujours nous contacter par courriel à [supportUSA@ARRMA-RC](mailto:supportUSA@ARRMA-RC) (USA) ou [support@arrma-rc.com](mailto:support@arrma-rc.com) (ROW) 24h par jour et nous ferons de notre mieux pour vous aider dansvotre requête.



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## Kit Overview

## Überblick

## Aperçu du Kit

### Supplied

### Mitteliefert

### Fournis

- ARRMA KRATON™ 4S (ARA4408V2T1/T2)  
or
- ARRMA OUTCAST™ 4S (ARA4410V2T1/T2)  
or
- ARRMA MOJAVE™ 4S (ARA4404T1/T2)
- Spektrum™ 2.4GHz Transmitter (SPMSLT300)
- Spektrum™ 2.4GHz Receiver (SPMSR315)
- Spektrum™ FIRMA ESC (SPMXSE1120)
- Spektrum™ 3668 2400Kv MOTOR (SPMXSM2100)
- Spektrum™ S652 Steel Gear Servo, 23T (SPMS652)

## SPECIFICATIONS

## SPEZIFIKATIONEN

## CARACTÉRISTIQUES

**KRATON**  
(ARA4408V2T1/T2)

**OUTCAST**  
(ARA4410V2T1/T2)

**MOJAVE**  
(ARA4404T1/T2)

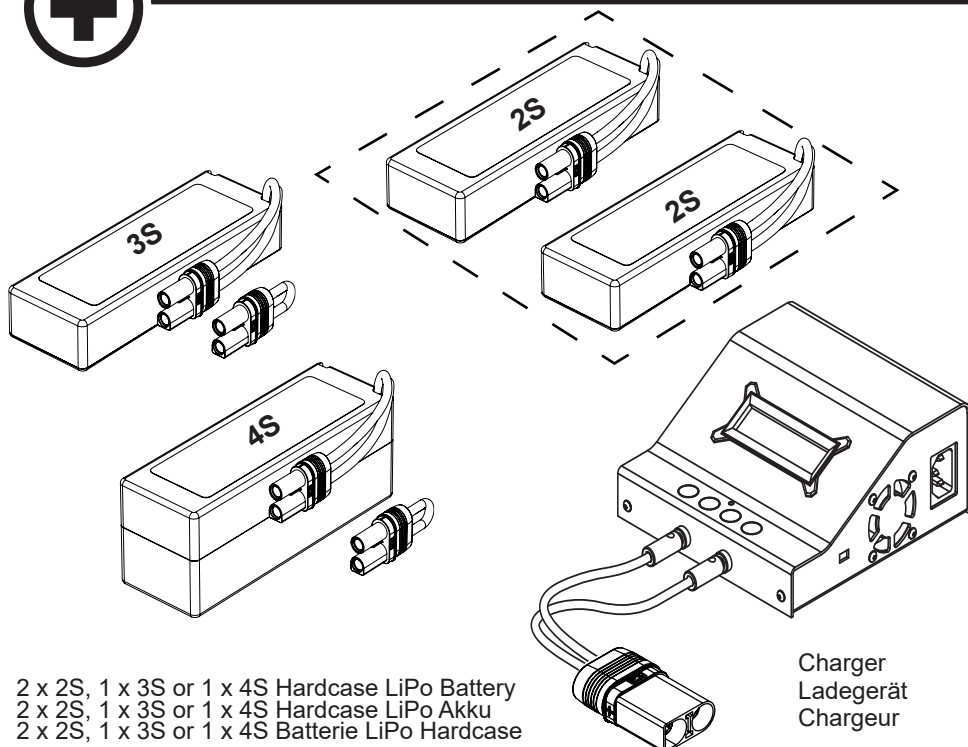
|                                                                                                 |                                                              |                                                              |                                                              |
|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|
| Length<br>Länge<br>Longueur                                                                     | 547mm / 21.53 in                                             | 515mm / 20.28 in                                             | 638mm / 25.11 in                                             |
| Width<br>Breite<br>Largeur                                                                      | 450mm / 17.72 in                                             | 450mm / 17.72 in                                             | 326mm / 12.83 in                                             |
| Height<br>Höhe<br>La taille                                                                     | 206mm / 8.11 in                                              | 225mm / 8.86 in                                              | 242mm / 9.52 in                                              |
| Wheelbase<br>Radstand<br>Empattement                                                            | 355mm / 13.98 in                                             | 313mm / 12.32 in                                             | 380mm / 14.96 in                                             |
| Battery Tray MAX<br>dims<br>Batteriefach MAX<br>wird gedimmt<br>Plateau de batterie<br>MAX dims | L: 156mm / 6.14 in<br>W: 51mm / 2.01 in<br>H: 48mm / 1.89 in | L: 165mm / 6.49 in<br>W: 51mm / 2.01 in<br>H: 48mm / 1.89 in | L: 163mm / 6.42 in<br>W: 51mm / 2.01 in<br>H: 48mm / 1.89 in |
| Weight<br>Gewicht<br>Poids                                                                      | 4.2kg / 9.24 lb                                              | 4.17kg / 9.17 lb                                             | 4.75 kg / 10.47 lb                                           |



Required

Benötigt

Requis



2 x 2S, 1 x 3S or 1 x 4S Hardcase LiPo Battery  
2 x 2S, 1 x 3S or 1 x 4S Hardcase LiPo Akku  
2 x 2S, 1 x 3S or 1 x 4S Batterie LiPo Hardcase

EC5™ / IC5®

EC5™ / IC5®

Charger  
Ladegerät  
Chargeur

#### ARRMA KRATON™ 4S (ARA4408V2T1/T2)

|                                                                                        |                                                            |
|----------------------------------------------------------------------------------------|------------------------------------------------------------|
| Battery Tray MAX dims<br>Batteriefach MAX wird gedimmt<br>Plateau de batterie MAX dims | L:156mm / 6.14 in x W:51mm<br>/ 2.01 in x H:48mm / 1.89 in |
|----------------------------------------------------------------------------------------|------------------------------------------------------------|

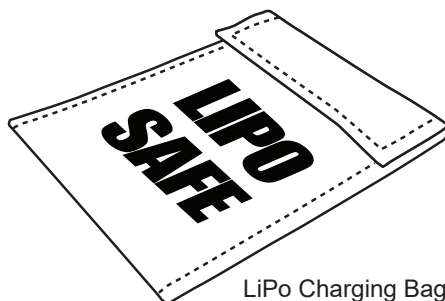
#### ARRMA OUTCAST™ 4S (ARA4410V2T1/T2)

|                                                                                        |                                                            |
|----------------------------------------------------------------------------------------|------------------------------------------------------------|
| Battery Tray MAX dims<br>Batteriefach MAX wird gedimmt<br>Plateau de batterie MAX dims | L:165mm / 6.49 in x W:51mm<br>/ 2.01 in x H:48mm / 1.89 in |
|----------------------------------------------------------------------------------------|------------------------------------------------------------|

#### ARRMA MOJAVE™ 4S (ARA4404T1/T2)

|                                                                                        |                                                            |
|----------------------------------------------------------------------------------------|------------------------------------------------------------|
| Battery Tray MAX dims<br>Batteriefach MAX wird gedimmt<br>Plateau de batterie MAX dims | L:163mm / 6.42 in x W:51mm<br>/ 2.01 in x H:48mm / 1.89 in |
|----------------------------------------------------------------------------------------|------------------------------------------------------------|

|                                              |                                                           |
|----------------------------------------------|-----------------------------------------------------------|
| Voltage Eingangsspannung<br>Voltage d'entrée | 2 x 2S, 1 x 3S or 1 x 4S LiPo<br>50C 5000mAh Minimum Req. |
|----------------------------------------------|-----------------------------------------------------------|

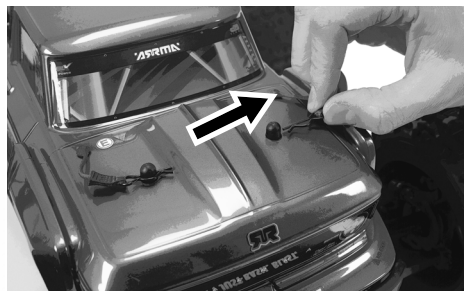


LiPo Charging Bag  
LiPo Ladetasche  
LiPo Sac Charge

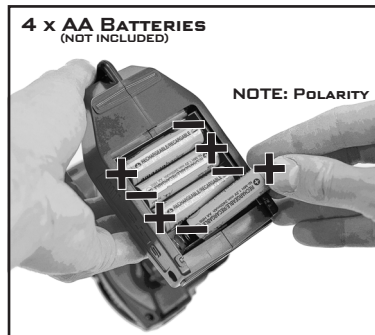
# QUICK START GUIDE



## REMOVE BODY



## INSTALL AA BATTERIES IN CONTROLLER



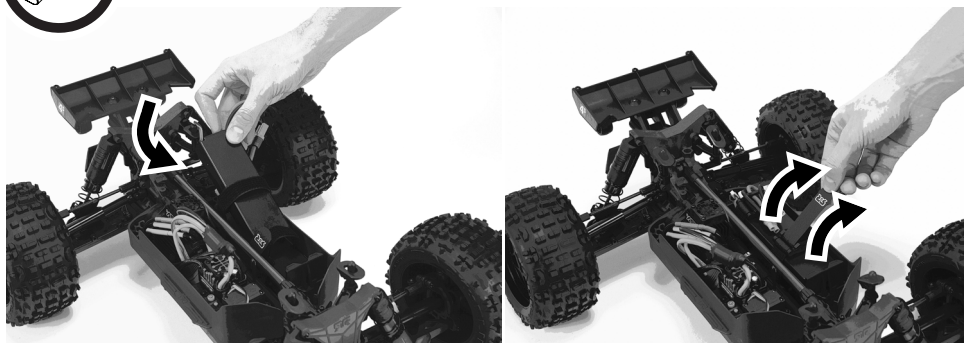
**CAUTION:** Only charge rechargeable batteries. Charging non-rechargeable batteries may cause the batteries to burst, resulting in injury to persons and/or damage to property.



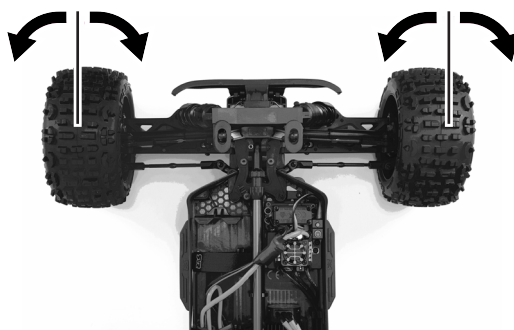
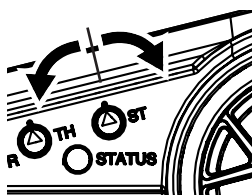
**CAUTION:** Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to national regulations.



## INSTALL CHARGED BATTERIES IN CAR

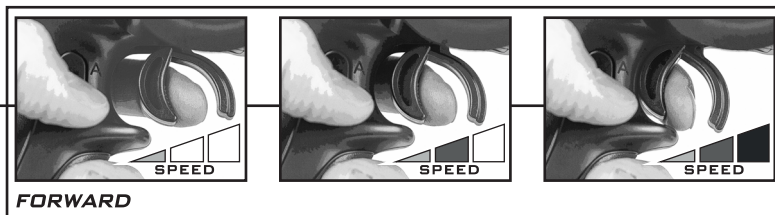
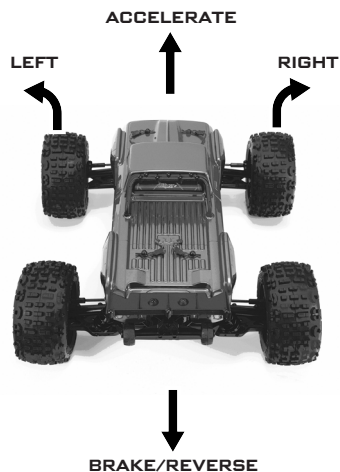


## STEERING NEUTRAL





## HOW TO DRIVE

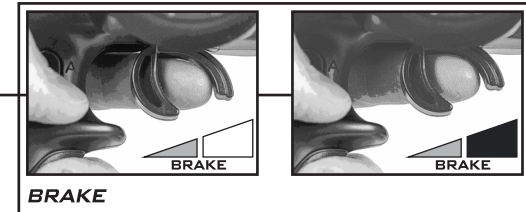


**FORWARD**

### HOW TO DRIVE



**NEUTRAL**



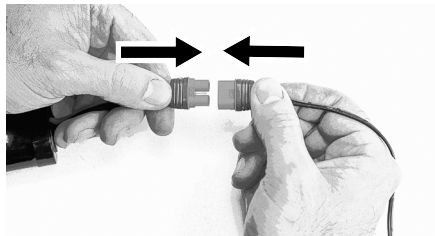
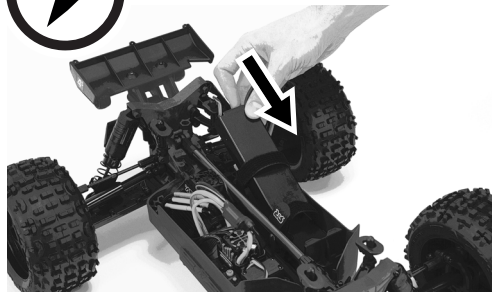
**BRAKE**



**REVERSE**



## CONNECT ESC AND POWER ON



**CONTROLLER ON FIRST**



**CAR ON SECOND**



## INSTALL CAR BODY



## NOW GET BASHING!



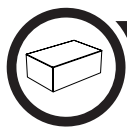
## POWER OFF

**CAR OFF FIRST**

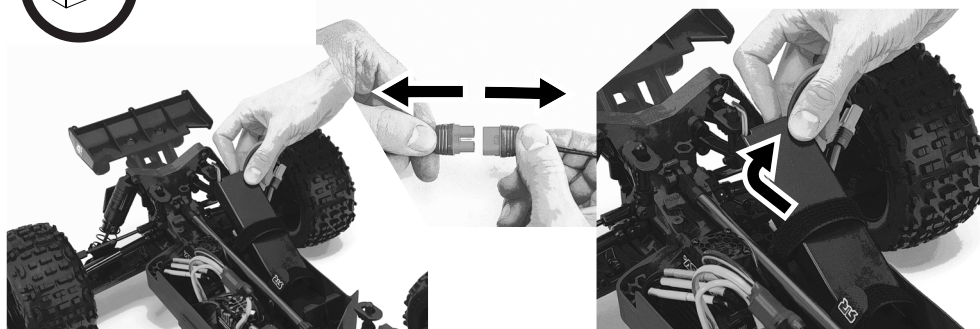


**CONTROLLER OFF SECOND**





## STORAGE



**ALL SAFE...UNTIL NEXT TIME!**



## REGULAR MAINTENANCE

Due to the Speed and Performance of your ARRMA vehicle we recommend following the maintenance guide below:

- After every few runs check the gluing of the tire to the wheel, clean and re-glue where required.
- Frequently check the whole vehicle for loose or missing screws and fittings. Use thread lock on any replacement screws that fix into metal parts or threads.
- Remove the wheels occasionally and check behind the wheel mounting hex for debris that might have been wrapped around the axles and is causing extra drag.
- Frequently check rotating parts are free from any obstructions such as stones or grass that might restrict their rotation which can lead to the over stress of the motor or speed controller.

After 10-15 runs remove the power module from the vehicle to gain access to the motor, Re-oil the motor shaft bearings with some light oil, a couple of drops on the bearing will aid the speed and longevity of your motor.

Check the gear mesh and remove any stones, grit or dust from the spur gear teeth and centre diff housing to prevent premature wear and damage.

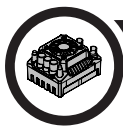
If the motor is removed for maintenance or servicing, the gear mesh will need to be re-set. Loosen the motor retaining bolts and adjust the motor position until there is minimal backlash between the pinion and spur gear teeth. If the mesh is too tight or too loose the gears will be noisy and could result in failure.

Over time you may notice increased play in the suspension and steering system. The replacement of the Composite Pivot Ball Set (AR330518) will restore a tighter tolerance and reduce movement.

The vehicles shock absorbers will wear quicker if used in dirty dusty conditions. Replace oil and seals as required to keep good shock damping to maintain the performance and handling of your vehicle.

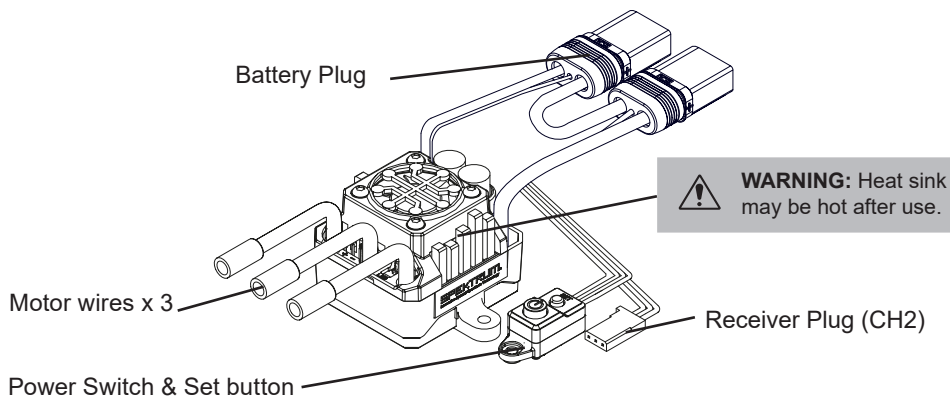
Instructions for the removal of the power module and the setting of the gear mesh can be found in the 'Technical Pack' booklet enclosed with your model.

**A well maintained vehicle will keep the strength and reliability expected from your ARRMA vehicle.**



## ELECTRONIC SPEED CONTROLLER (ESC)

Only use fully charged LiPo batteries (4.2V per cell) to prevent battery/ESC damage.

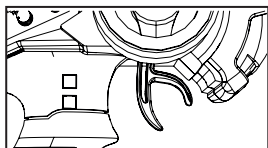


### ESC Specifications

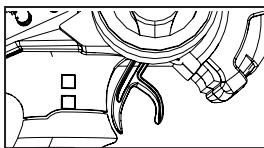
|               |                                                     |            |             |
|---------------|-----------------------------------------------------|------------|-------------|
| Input Voltage | 3S-4S LiPo (11.1-14.8v)<br>35C 5000mAh Minimum Req. | BEC Output | 6.0v/4A Max |
|---------------|-----------------------------------------------------|------------|-------------|

### THROTTLE SETUP

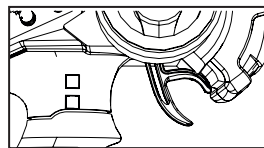
Connect batteries, turn on TX and press/hold the set button 'A'. Turn the switch on 'B' and release the set button when the RED light flashes on the ESC.



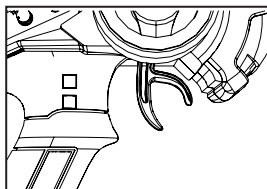
1. TX in neutral - press set button (1 Green flash)



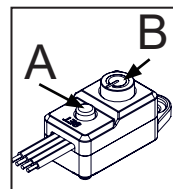
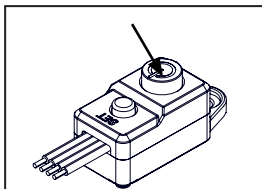
2. TX full throttle - press set button (2 Green flashes)

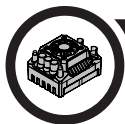


3. TX full brake - press set button (3 Green flashes)



4. Switch off ESC to complete setup





## BATTERY MODES



### TEMPERATURE PROTECTION

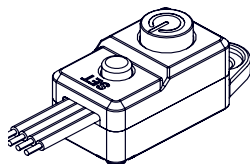
If the ESC temperature exceeds 125 degrees Celsius/257 degrees Fahrenheit, the ESC will enter temperature protection mode and the green status LED will blink. Once the ESC has cooled down it will resume normal operation after it has been turned off and back on again.

### ESC TUNING OPTIONS (V1)

The brushless ESC is setup for use straight from the factory, if you want to alter the settings for your track or driving style please see the table and steps below:

|   | Variable                      | Setting > 1  | 2            | 3       | 4       | 5       | 6     | 7    |
|---|-------------------------------|--------------|--------------|---------|---------|---------|-------|------|
| 1 | Low Voltage Cut-Off Threshold | LIPO         |              |         |         |         |       |      |
| 2 | Punch Setting                 | Level 1      | Level 2      | Level 3 | Level 4 | Level 5 |       |      |
| 3 | Brake Strength                | 25%          | 37.5%        | 50%     | 62.5%   | 75%     | 87.5% | 100% |
| 4 | Running Mode                  | Fwd/Brk/Rev  | Fwd/Brk      |         |         |         |       |      |
| 5 | Motor Rotation                | Normal (CCW) | Reverse (CW) |         |         |         |       |      |
| 6 | BEC Voltage                   | 6.0v         |              |         |         |         |       |      |

### TO ALTER ESC SETTINGS



To reset all programming items, press and hold the set button for five seconds.

Power on the transmitter.

Connect battery to the esc and switch on the esc.

Hold set key for one second.

Green led flashes.

Release the set button to enter programming.

Press and release the set button.

The number of times the green led flashes equals the programming item number.

Hold the set button for three seconds to select the programming item.

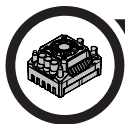
The number of times the red led flashes equals the option number (within the programming item).

Turn off the esc to quit programming mode or to enter another programming item.

Press and hold the set button for three seconds to save the selected option.

### FACTORY RESET

To reset the ESC to factory default settings, connect a battery, turn the transmitter on and then turn the car on. Press and hold the set button for 5 seconds and release. The Red and Green lights will flash simultaneously to show you have reset. Switch the ESC off and factory reset is complete.



## BATTERY MODES



### TEMPERATURE PROTECTION

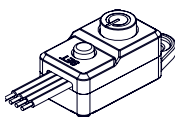
If the ESC temperature exceeds 125 degrees Celsius/257 degrees Fahrenheit, the ESC will enter temperature protection mode and the green status LED will blink. Once the ESC has cooled down it will resume normal operation after it has been turned off and back on again.

### ESC TUNING OPTIONS (V2)

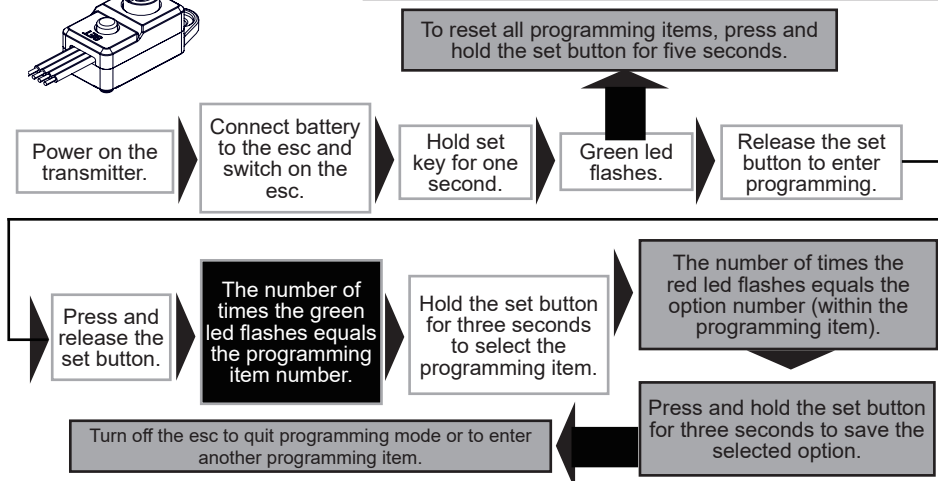
The brushless ESC is setup for use straight from the factory, if you want to alter the settings for your track or driving style please see the table and steps below:

| Variable                | Setting > 1    | 2           | 3           | 4            | 5             | 6               | 7       | 8           | 9       |
|-------------------------|----------------|-------------|-------------|--------------|---------------|-----------------|---------|-------------|---------|
| 1 Running Mode          | FWD/BRK        | FWD/BRK/REV |             |              |               |                 |         |             |         |
| 2 Drag Brake Force      | 0%             | 2%          | 4%          | 6%           | 8%            | 10%             | 12%     | 14%         | 16%     |
| 3* Low Voltage Cut-Off* | LOWER< Level 1 | -- Level 2  | --- Level 3 | ---- Level 4 | ----- Level 5 | >HIGHER Level 6 |         |             |         |
| 4 Punch Setting         | Level 1        | Level 2     | Level 3     | Level 4      | Level 5       | Level 6         | Level 7 | Level 8     | Level 9 |
| 5 Brake Strength        | 25%            | 37.5%       | 50%         | 62.5%        | 75%           | 87.5%           | 100%    | *(Disabled) |         |
| 6 Reverse Strength      | 25%            | 50%         | 75%         | 100%         |               |                 |         |             |         |
| 7 Neutral Range         | 6% (Narrow)    | 9% (Normal) | 12% (Wide)  |              |               |                 |         |             |         |
| 8 Motor Timing (degree) | 0              | 3.75        | 7.5         | 11.25        | 15            | 18.75           | 22.50   | 26.25       |         |
| 9 Motor Rotation        | CCW            | CW          |             |              |               |                 |         |             |         |
| 10 BEC Voltage          | 6.0V           | 7.4V        |             |              |               |                 |         |             |         |

### TO ALTER ESC SETTINGS



3\* Higher level means your battery will cut off at a higher Voltage. This protects your batteries. Run Time will be reduced the higher the level setting.



## ESC LED INDICATOR

| LED Indicator                                       | LED Code                                            |
|-----------------------------------------------------|-----------------------------------------------------|
| ESC turned On, LED indicator is Off                 | Throttle trigger is in the neutral zone             |
| Red LED illuminated                                 | ESC is operating in forward throttle                |
| Red and Green LED illuminated                       | ESC is at full throttle, full brake or full reverse |
| LED flashes red with short single pulses            | LVC protection activated                            |
| LED flashes green with short single pulses          | The ESC is in thermal shutoff mode                  |
| LED flashes green with three short pulses repeating | The ESC has exceeded the continuous current limit   |
| LED flashes green with four short pulses repeating  | The ESC has failed the self test                    |
| LED flashes green with five short pulses repeating  | Capacitor temp has been exceeded                    |

## TROUBLESHOOTING GUIDE

| Problem and LED Indicator                                                               | Error Mode                          | Possible Causes                                                    | Solution                                                                                                                          |
|-----------------------------------------------------------------------------------------|-------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Motor won't operate. LED flashes red with short single pulses.                          | LVC has been activated.             | Battery voltage is below the LVC setting.                          | Verify the battery is charged.                                                                                                    |
| Motor won't operate. LED flashes green with short single pulses.                        | The ESC is in thermal shutoff mode. | The ESC is taking too much load.                                   | Turn off the ESC and allow it to cool before resuming operation. Consider making changes to gear ratio to reduce load to the ESC. |
| Motor won't operate. LED flashes green with four short pulses repeating.                | The ESC has failed the self test.   | The ESC is damaged.                                                | Send the ESC to a Horizon Hobby service center for service.                                                                       |
| Motor won't operate. LED flashes green with five short pulses repeating.                | Capacitor temp has been exceeded    | There is too much load on the drive system for the ESC to support. | Consider changing the battery or gearing to reduce the load on the ESC, or change your driving habits to reduce the load.         |
| No throttle or steering on start up. LED flashes red with single short pulse repeating. | N/A                                 | Throttle trim not at neutral.                                      | Turn off ESC. Adjust throttle trim on transmitter to neutral. Turn back on.                                                       |



**RADIO GEAR**

**SPEKTRUM**

# SLT3 3CH

2.4GHZ DIGITAL  
RADIO SYSTEM

Steering dual rate

Throttle trim

Steering trim

Power LED

Steer  
wheel (CH1)

Throttle Limiter

Throttle reverse

Steering reverse

Power switch

Throttle trigger  
(CH2)

Battery compartment

Antenna

BIND Button

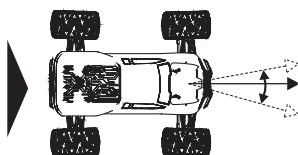
BATT socket

AUX1 socket

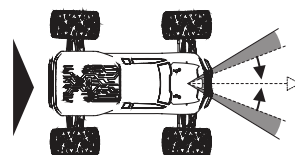
Throttle socket (CH2)

Steering socket (CH1)

## STEERING TRIM



## ST RATE



## THROTTLE TRIM

Throttle Trim: factory default neutral,  
adjustment is not necessary.

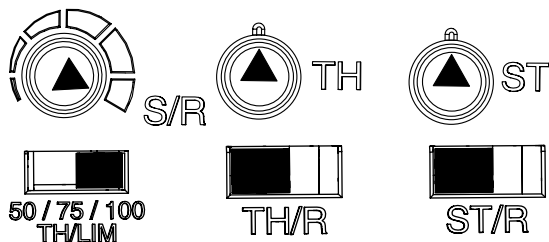


## BATTERY STATUS

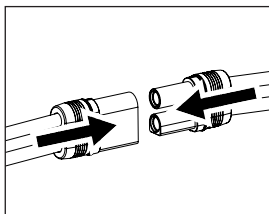
If battery status LED is flashing, the  
batteries need to be replaced.



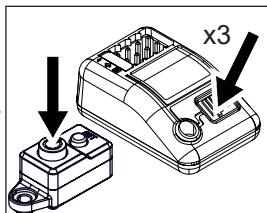
## FACTORY DEFAULTS



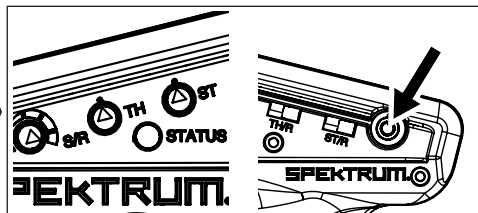
## SR315 BINDING SLT PROTOCOL



Connect a fully charged battery pack to the ESC.

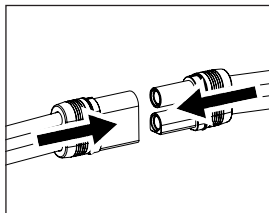


Power on the ESC. press the bind button three times quickly (within 1.5 seconds of the first button press).

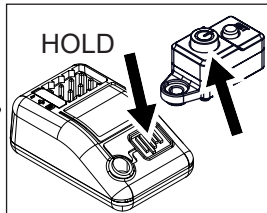


Set the trims and control positions at the desired failsafe settings, and power ON the SLT3 transmitter.

## SR315 BINDING DSMR PROTOCOL

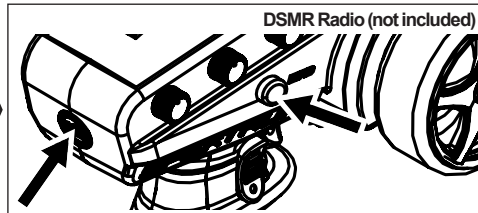


Connect a fully charged battery pack to the ESC.



Press and hold the bind button on the receiver.

Power on the receiver. The orange LED flashes, indicating the receiver is in bind mode. Release the bind button after the orange LED illuminates.



Put your DSMR transmitter (not included) in bind mode.

The bind process is complete when the orange LED on the receiver remains lit.



FCC ID: BRWSPMSLT300 and FCC ID: BRWSRIRVINGV1

This equipment complies with FCC and IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and/or antenna and your body (excluding fingers, hands, wrists, ankles and feet). This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

#### Supplier's Declaration of Conformity

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.

**CAUTION:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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Champaign, IL 61822  
Email: [compliance@horizonhobby.com](mailto:compliance@horizonhobby.com)  
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#### EU Manufacturer of Record:

Horizon Hobby, LLC  
2904 Research Road,  
Champaign, IL 61822

#### EU Importer of Record:

Horizon Hobby, GmbH  
Hanskampring 9  
22885 Barsbüttel Germany



Hereby, Horizon Hobby, LLC declares that the device is in compliance with the following: European Union Restriction of Hazardous Substances Recast (RoHS2) Directive 2011/65/EU; RoHS 3 Directive - Amending 2011/65/EU Annex II 2015/863; European Radio Equipment Directive (RED) 2014/53/EU

The full text of the EU declaration of conformity is available at the following internet address: <http://www.horizonhobby.com/content/support-render-compliance>.

#### Wireless frequency range and wireless output power:

##### Transmitter:

Frequency Band: 2402.0-2478.0 MHz  
Max EIRP: 16.6 dBm

##### Receiver:

Frequency Band: 2402.0-2478.0 MHz  
Max EIRP: -1.33 dBm

**Industry Canada Notice:** IC: 6157A-SPMSLT300 and IC: 6157A-SRIRVINGV1

CAN ICES-3 (B)/NMB-3(B)

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science, and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following 2 conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.



This appliance is labeled in accordance with European Directive 2012/19/EU concerning waste of electrical and electronic equipment (WEEE). This label indicates that this product should not be disposed of with household waste. It should be deposited at an appropriate facility to enable recovery and recycling.



## TROUBLESHOOTING

| Problem                             | Possible Cause                                                                     | Solution                                                                         |
|-------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| <b>Vehicle does not move</b>        | Batteries are incorrectly installed in transmitter                                 | Check Indicator Light on transmitter, see page 20                                |
|                                     | Weak, damaged or no drive battery in model                                         | Install fresh, charged batteries                                                 |
|                                     | Frayed or broken motor or ESC wires                                                | Check condition, reconnect and insulate                                          |
|                                     | ESC has shut down due to overheating                                               | Stop driving and allow ESC or motor to cool down                                 |
|                                     | Electric motor is damaged                                                          | Replace with new unit - visit ARRMA-RC.com for advice and upgrades!              |
|                                     | Waterproof ESC is damaged                                                          | Replace with new unit - visit ARRMA-RC.com for advice and upgrades!              |
|                                     | Possible damage to transmission/drive-line                                         | Check components and replace - visit ARRMA-RC.com for advice                     |
|                                     | ESC low voltage cutoff has activated to protect batteries                          | Remove drive battery, leave to cool down if necessary, and re-charge             |
| <b>Vehicle does not reverse</b>     | Running mode is set to Fwd/Brk                                                     | Retune ESC Running Mode to 'Fwd/Brk/Rev, see page 18                             |
| <b>Vehicle drives without input</b> | Transmitter throttle trim incorrectly set                                          | Throttle trim needs to be set to zero/neutral - see page 21 for factory defaults |
|                                     | Neutral throttle position of ESC Unit incorrect                                    | Re calibrate the ESC                                                             |
| <b>Short runtime</b>                | Battery damaged or not fully charged                                               | Check condition, replace or recharge                                             |
|                                     | Electric motor dirty or damaged                                                    | Clean, check condition and/or replace - visit ARRMA-RC.com for more information  |
|                                     | Incorrect ESC battery mode - voltage cutoff too high for the battery you are using | Adjust the battery mode of the unit                                              |
| <b>Sluggish performance</b>         | Battery damaged or not fully charged                                               | Check condition, replace or recharge                                             |
|                                     | Transmitter throttle trim incorrectly set                                          | Throttle trim needs to be set to zero/neutral - see page 21 for factory defaults |
|                                     | Electric motor dirty or damaged                                                    | Clean, check condition and/or replace - visit ARRMA-RC.com for more information  |
|                                     | Drivetrain dirty or damaged                                                        | Clean, check condition and/or replace - visit ARRMA-RC.com for more information  |

|                                                          |                                                                        |                                                                                                                                                             |
|----------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>No control of vehicle or short range</b>              | Transmitter batteries are weak or fitted incorrectly                   | Check Indicator Light on transmitter, see page 20                                                                                                           |
|                                                          | Servo wires to receiver loose or connected incorrectly                 | Reinstall servo wires to receiver                                                                                                                           |
|                                                          | Transmitter and receiver unit are not 'bound' correctly                | Transmitter and receiver need to be bound - see page 21                                                                                                     |
| <b>Steering/Throttle operation intermittent</b>          | ESC has shut down due to overheating                                   | Stop driving and allow ESC or motor to cool down                                                                                                            |
|                                                          | Transmitter and receiver unit are not 'bound' correctly                | Check for sources of interference and re-bind transmitter/receiver - see page 21                                                                            |
| <b>Vehicle wanders left/right without steering input</b> | Steering trim setting out                                              | Adjust steering trim - see page 21                                                                                                                          |
|                                                          | Damaged steering components                                            | Check components and replace - visit <a href="http://ARRMA-RC.com">ARRMA-RC.com</a> for advice                                                              |
|                                                          | Drivetrain dirty or damaged                                            | Clean, check condition and/or replace - visit <a href="http://ARRMA-RC.com">ARRMA-RC.com</a> for more information                                           |
| <b>Steering/Throttle operation Reversed</b>              | Relevant channel of transmitter is reversed                            | Reverse relevant channel on transmitter - see page 21 for factory defaults                                                                                  |
|                                                          | Check that the wires from the ESC to the motor are connected correctly | Reconnect in the correct orientation (orange to orange, yellow to yellow and blue to blue) ensuring fit is tight; if not pinch female connector with pliers |
| <b>Limited steering angle</b>                            | Transmitter steering dual-rate set incorrectly                         | Adjust transmitter dual-rate - see page 21 for factory defaults                                                                                             |
|                                                          | Damaged steering components                                            | Check components and replace - visit <a href="http://ARRMA-RC.com">ARRMA-RC.com</a> for advice                                                              |

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