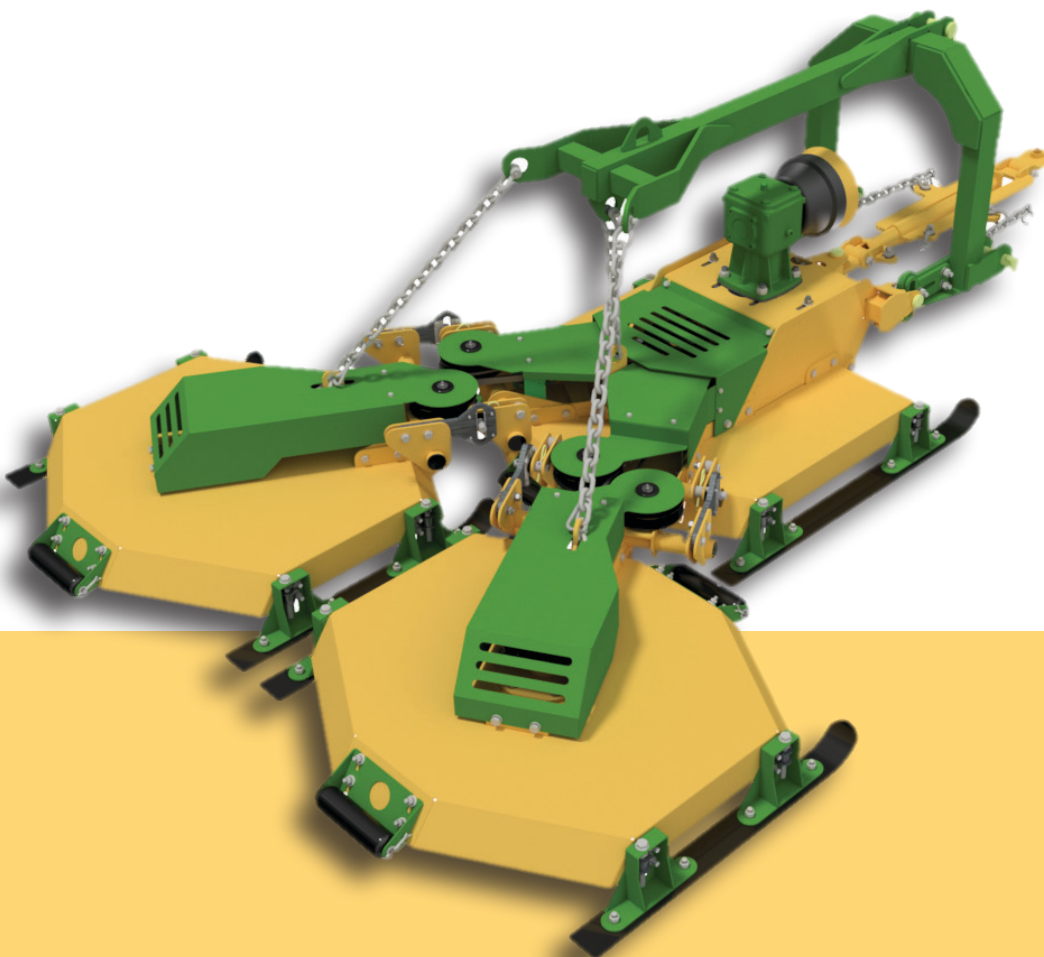




OPERATORS MANUAL / OPERATEURSHANDLEIDING

Specialised Mowers / Gespesialiseerde Grassnyers

Rotagang®
F210 TurfPro Finishing Mower



CONTENTS

FOREWORD	1
COMPANY PROFILE	2
WARRANTY AND DISCLAIMER	3
PRODUCT RANGE	5
INSTALLATION	6
OPERATION	11
MAINTENANCE	16
TROUBLESHOOTING	21
PARTS LISTS	22

INHOUD

VOORWOORD
MAATSKAPPYPROFIEL
WAARBORG EN VRYWARING
PRODUKREEKS
INSTALLERING
WERKING
INSTANDHOUDING
FOUTOPSPORING
PARTELYSTE

Authorised Dealer / Gemagtigde handelaar:

Date of Sale / Verkoopsdatum:

Implement:

Model No. / Model Nr.:

Serial No. / Reeks Nr.:

Part number

M8415

Version

1

Date of publication

2017/08/02

Onderdeelnummer

Weergawe

Datum van publisering

FOREWORD

We at Falcon commend and congratulate you on the purchase of your Falcon implement, which we consider to be the best of its type available.

However, we would like to remind you that your success and satisfaction with the product will be greatly improved by you familiarising yourself with the contents of this manual. It contains important information relevant to the responsible operation, maintenance and most importantly, safe use of the product.

Note that failure to observe or comply with the provisions of this manual may result in unsafe operating conditions as well as damage to products and property which shall not be covered under warranty.

Should this manual become misplaced, damaged or destroyed, further copies are available from your Falcon dealer. Alternatively, this document is available for download from our website: www.falconequipment.co.za

Symbols used in this document

	Safety-critical notices	Failure to comply with these notices may result in serious damage to equipment, personal injury or death.
	Veiligheidskritieke kennisgewings	Versuim om aan hierdie kennisgewings gehoor te gee kan ernstige skade aan toerusting, persoonlike beserings of dood tot gevolg hê.
	Procedures and checks	To be carried out by suitably competent persons in the course of installation, operation and maintenance of the equipment.
	Prosedures en kontroles	Moet deur toepaslik bekwame persone uitgevoer word by die installering, bedryf en instandhouding van die toerusting.
	General information	Information provided for references purposes, including any external references intended to be read in conjunction with this manual.
	Algemene inligting	Inligting vir verwysingsdoeleindes, insluitend enige eksterne verwysings wat bedoel is om saam met hierdie handleiding gelees te word.

VOORWOORD

Ons by Falcon wens jou geluk met die aankoop van jou Falcon-implement, wat ons as die beste beskikbare werktuig in sy soort beskou.

Ons herinner u egter graag daaraan dat u sukses en tevredenheid met die produk grootliks verbeter sal word as u met die inhoud van hierdie handleiding vertrou raak. Dit bevat belangrike inligting met betrekking tot die verantwoordelike gebruik, instandhouding en, die heel belangrikste, veilige gebruik van die produk.

Let asseblief op dat versuim om die bepalings van hierdie handleiding na te kom tot onveilige bedryfstoeestand asook skade aan produkte en eiendom kan lei wat nie onder die waarborg gedek sal wees nie.

Indien hierdie handleiding dalk verloor, beskadig of vernietig sou word, is daar verdere kopieë by u Falcon-handelaar beskikbaar. Hierdie dokument kan ook van ons webwerf, www.falconequipment.co.za, afgelaai word.

Simbole wat in hierdie dokument gebruik word

COMPANY PROFILE

Falcon Agricultural Equipment (Pty) Ltd is an owner-managed business and the largest manufacturer of rotary cutters in Africa. The company opened its doors in 1985, at its current premises in Howick, Kwazulu-Natal, South Africa. This is the ideal location as it is an agricultural area with a leading agricultural college nearby. Falcon is a recognised BBBEE contributor and our skilled labour force is a dedicated team of whom we are proud.

Our primary market is the agricultural sector, with niche efforts into the industrial and turf implement market. We distribute our products through more than 350 authorised dealers countrywide, as well as across our borders into other African countries.

We manufacture the Falcon and Locust ranges of implements and our on-going programme of innovation and improvement ensures that we consistently launch implements to satisfy our customers' ever-changing needs.

The Falcon range includes slashers, Haymakers[®], material handling implements, mulchers, mowers, spreaders, rotavators and flail cutters. Each is designed to be simple, safe and serviceable, while offering excellent value for money. They are built to last and are capable of coping with the tough South African conditions.

In many parts of South Africa "Falcon" is the generic term for grass-cutting implements, making us the undisputed leader in our field. Delivery on a marketing promise is the foundation of any successful marketing drive and farmers buying the Falcon brand buy more than just a product - they buy the heritage and expertise of a company that has been around for a long time!

The Locust range of economy implements is particularly suited to smallholders, more price-sensitive buyers and emerging farmers. These implements, which include slashers and roller mowers, work well with older or lower-powered tractors.

We also import a range of implements that complement the locally manufactured ones. These include the Amazone spreaders, sprayers, mowers and soil tillage implements (from Germany), the Votex shredders and mowers, including reach mowers (from the Netherlands), and the heavy-duty Woods Batwing rotary cutters (from USA).

Falcon Agricultural Equipment (Pty) Ltd is committed to supporting our local communities in many different ways. Our main focus is the well-being of children and we provide a safe and suitable school environment for them, as well as school-related necessities.

Our team prides itself on its professional approach to business. We have built long-standing relationships with our dealers and their customers based on honesty, trust, respect and integrity. Excellent customer service is an important part of the Falcon promise.

MAATSKAPPYPROFIEL

Falcon Agricultural Equipment (Edms.) Bpk. is 'n eienaar-bestuurde besigheid en die grootste vervaardiger van wentelsnyers in Afrika. Die maatskappy het sy deure in 1985 by sy huidige perseel in Howick, KwaZulu-Natal, Suid-Afrika, geopen. Die ligging is ideaal: in 'n boerderygebied met 'n vooraanstaande landboukollege naby. Falcon is 'n erkende BBBEE-bydraer en ons geskoolde arbeidsmag is 'n toegewyde span op wie ons trots is.

Ons hoofmark is die landbousektor, met nisverkope in die nywerheids- en grasbaanimplement-markte. Ons versprei ons produkte deur meer as 350 gemagtigde handelaars landwyd, asook buite ons grense in ander Afrika-lande.

Ons vervaardig die Falcon- en Locust-implementreekse, en ons voortgesette program van vernuwing en verbetering verseker dat ons konstant implemente bekendstel wat ons kliënte se immer veranderende behoeftes bevredig.

Die Falcon-reeks sluit wentelsnyers, Hooimakers[®], materiaalhanteringsimplemente, mulchers, grassnyers, strooiers, kapploeë en vleëlsnyers in. Almal is ontwerp om eenvoudig, veilig en diensbaar te wees terwyl hulle uitstekende waarde vir geld bied. Hulle is gebou om te hou en ons strawwe Suid-Afrikaanse toestande die hoof te bied.

In baie dele van Suid-Afrika is "Falcon" die generiese term vir grassny-implemente, wat ons die onbetwiste leier op ons gebied maak. Die nakom van 'n bemarkingsbelofte is die grondslag van enige geslaagde bemarkingsveldtog, en boere wat die Falcon-handelsmerk koop, koop meer as net 'n produk – hulle koop die erfenis en deskundigheid van 'n maatskappy wat al lank in die land is!

Die Locust-reeks ekonomiese implemente is veral geskik vir kleinhoueboere, meer prysgevoelige kopers en ontlukende boere. Hierdie implemente, wat wentelsnyers en rollersnyers insluit, werk goed saam met ouer of minder kragtige trekkers.

Ons voer ook 'n reeks implemente in wat die plaaslik-vervaardigdes komplementeer. Dit sluit in die Amazone-strooiers, -spuite, -grassnyers en -grondbewerkings-implemente (uit Duitsland), die Votex-stokkiekappers en -grassnyers, insluitend reiksnyers (uit Nederland), en die swaardiens Woods Batwing-wentelsnyers (uit die VSA).

Falcon Agricultural Equipment (Edms.) Bpk. is verbonde tot die ondersteuning van ons plaaslike gemeenskappe op baie verskillende maniere. Ons hooftokus is die welsyn van kinders, en ons verskaf vir hulle 'n veilige en geskikte skoolomgewing, sowel as skoolverwante benodigdhede.

Ons span is trots op sy professionele benadering tot besigheid. Ons het langdurige verhoudings met ons handelaars en hul klante opgebou wat op eerlikheid, vertroue, respek en integriteit gebaseer is. Voortreflike klantediens is 'n belangrike deel van die Falcon-belofte.

WARRANTY AND DISCLAIMER

Falcon products are manufactured in accordance with established quality standards and are accompanied by a limited warranty against defective materials and workmanship. In terms of this warranty, Falcon or an authorised Dealer may conduct reasonable repairs or replacement of products or parts of products, as required.

General conditions of limited warranty

Any claim with respect to warranty shall satisfy the following minimum conditions.

- The implement has not been subjected to misuse, abuse, damage or acts of negligence.
- The Owner is in possession of, and can demonstrate an understanding and application of the provisions of this manual.
- The implement has been used exclusively for its intended purpose and in a configuration in which it was designed to operate.
- Installation, setup, operation and maintenance of the implement have been carried out in accordance with this manual.
- Maintenance of the implement has been carried out as prescribed in this manual, using original and approved parts.
- The implement has not been subjected to structural, mechanical or any other unauthorised modification or repair.
- A warranty claim has been reported to an authorised Dealer within the prescribed warranty period for the product concerned.

Exclusions

The following items are excluded from warranty cover, including any costs relating to these.

- Parts reckoned as consumable or wearing parts.
- Products or parts of products exhibiting acceptable wear and tear.
- Temporary replacement, loan or hire of substitute parts or equipment.
- Transport and handling of affected products.
- Consequential damage or loss on the part of any person, organization or otherwise affected party.

Validity

This warranty supersedes all previous conditions of warranty, whether expressed or implied, including any previous obligation or liability on the part of Falcon in respect of non-conforming or defective product.

Disclaimer

Falcon maintains a programme of continuous product improvement and consequently reserves the right to change designs, specifications, descriptions and materials

WAARBORG EN VRYWARING

Falcon-produkte word vervaardig ooreenkomstig met gevestigde gehalte-standaarde en word deur 'n beperkte waarborg teen defektiewe materiale en vakmanskap gedek. Kragtens hierdie waarborg mag Falcon of 'n gemagtigde Handelaar redelike herstelwerk of vervanging van produkte of produkonderdele uitvoer, soos vereis.

Algemene voorwaardes van beperkte waarborg

Enige eis ten opsigte van die waarborg moet aan die volgende minimumvoorwaardes voldoen:

- Die implement is nie aan verkeerde gebruik, misbruik, beskadiging of verwaarloosing onderwerp nie.
- Die Eienaar is in besit van hierdie handleiding en kan 'n begrip en toepassing van die bepalings daarvan demonstreer.
- Die implement is uitsluitlik vir die bedoelde doel gebruik en in 'n konfigurasie waarin dit ontwerp is om bedryf te word.
- Installering, opstelling, bedryf en instandhouding van die implement het in ooreenstemming met hierdie handleiding plaasgevind.
- Instandhouding van die implement is uitgevoer soos in hierdie handleiding voorgeskryf, met gebruik van oorspronklike en goedgekeurde onderdele.
- Die implement is nie aan enige strukturele, meganiese of enige ander ongemagtigde wysiging of herstelwerk onderwerp nie.
- Kennis van 'n waarborg-eis is binne die voorgeskrewe waarborgtydperk vir die betrokke produk aan 'n gemagtigde Handelaar gegee.

Uitsluitings

Die volgende items word van waarborgdekking uitgesluit, insluitend enige onkoste daaraan verbonde.

- Onderdele as verbruikbare of slytonderdele geag.
- Produkte of produkonderdele wat aanvaarbare slytasie vertoon.
- Tydelike vervanging, leen of huur van vervangings-onderdele of -toerusting.
- Vervoer en hantering van geaffekteerde produkte.
- Gevolglike skade of verlies aan of deur enige persoon, organisasie of andersins geaffekteerde party.

Geldigheid

Hierdie waarborg vervang alle vorige waarborgvoorwaardes, hetsy eksplisiet of geïmpliseer, insluitend enige vorige verpligting of aanspreeklikheid van Falcon ten opsigte van nie-ooreenstemmende of defekte produkte.

Vrywaring

Falcon handhaaf 'n program van voortdurende produkverbetering en gevolg behou ons die reg om ontwerpe, spesifikasies, beskrywings, materiale en enige ander

of construction and any other product attribute without prior notice. This includes no obligation to reflect such changes in documentation or literature or to provide any such changes to products previously sold or held in stock.

produkteienskap sonder voorafkennisgewing te wysig, insluitend geen verpligting om sulke veranderinge in dokumentasie of literatuur te weerspieël of aan te bring aan produkte wat voorheen verkoop of aangehou is nie.

Warranty Periods

Brands	Product groups	Components	Origin	Versions	Period
Falcon	Slashers Haymakers® Rollermowers Blowermowers	Gearboxes	Imported	All	2y
			Falcon	F50	3y
				F60	2y
				F80	3y
		PTO shafts	Imported	All	2y
		OEM parts	Falcon	All	2y
	Slashers, Dual-spindle Slashers, Flexwing Grassmulchers Fieldmulchers SD Mulchers Rotagang® Finishing Mowers	Gearboxes	Imported	All	1y
			Falcon	F50	2y
				F60	1y
				F80	2y
		PTO shafts	Imported	All	1y
		OEM parts	Falcon	All	1y
	Flail cutters	Gearboxes	Imported	All	1y
		PTO shafts	Imported	All	1y
		OEM parts	Falcon	All	1y
	Rotavators	Gearboxes	Falcon	All	1y
		OEM parts	Falcon	All	1y
	Rotorspreaders	OEM parts	Falcon	All	1y
		PTO shafts	Imported	All	1y
	Limespreaders	OEM parts	Falcon	All	1y
	Bale forks + beams	OEM parts	Falcon	All	1y
	Unloaders	OEM parts	Falcon	All	1y
Locust	Slashers Rollermowers	Gearboxes	Generic	All	1y
		OEM parts	Falcon	All	1y
Amazone	Spreaders Sprayers Disk/Combo harrows Power harrows Turf equipment	All	Amazone-DE	All	1y
Votex	Shredders	All	Votex-NL	All	1y
Woods	Batwing rotary cutters	All	Woods-USA	All	1y

PRODUCT RANGE

The Falcon family of precision turf implements enables users to achieve extremely high quality finishes on a variety of surfaces under turf.

These specialised mowers cut and disperse material in a controlled and safe manner. These attributes make this family of implements a popular choice on sports fields, golf courses and other amenities.

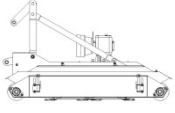
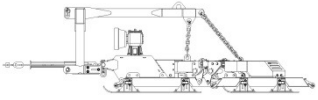
The range consists of two models, namely the F210 TurfPro Finishing Mower and the Rotagang®, with working widths of 2,1 and 1,72 m respectively.

PRODUKKEKES

Die Falcon-familie van presisie-grasbaanimplemente stel gebruikers in staat om uiters hoëgehalte-afwerkings op 'n verskeidenheid grasoppervlakke te behaal.

Hierdie gespesialiseerde grassnyers sny en versprei materiaal op 'n beheerde en veilige wyse. Hierdie eienskappe maak hierdie implementfamilie 'n gewilde keuse vir sportvelde, gholfbane en ander geriewe.

Die reeks bestaan uit twee modelle: die F210 TurfPro Finishing Mower en die Rotagang®, met werkswydtes van 2,1 en 1,72 m onderskeidelik.

Profile	Model (Part No.)	Blades/ Spindles (qty)	Working width (mm)	W x L (mm)		Mass (kg)	Power, max. (kW)
	F210 TurfPro Finishing Mower (A0100)	12 (x3)	2 100	2 245	1 560	470	35–50
	Rotagang® (A0054)	12 (x3)	1 760	3 265	2 020	421	25–40
Profiel	Model (Onderdeelnr.)	Lemme/ Spille (aantal)	Werkswydte (mm)	B x L (mm)		Massa (kg)	Krag, maks. (kW)

INSTALLATION

INSTALLERING

Attaching the implement to the tractor

- ⚠ Do not enter the area between the tractor and the implement unless the tractor engine is shut off, handbrake applied and the key removed from the ignition.
- ⚠ Use only hitch pins and linchpins of the correct specification, such as those provided with the implement.

➤ F210 TurfPro Finishing Mower

The implement is equipped with a standard 3-point hitch for attachment to the tractor, including a flexible link for top link attachment.

- ✓ With the implement in the working position, the tractor 3-point hitch top link length should be adjusted (Fig. 1-A) to allow the flexible link (Fig. 1-B) to assume an angle of approx. 45 degrees.

Koppel van die implement aan die trekker

- ⚠ Moenie tussen die trekker en die implement inbeweeg tensy die trekkerenjin afgeskakel is, die handrem opgetrek uit die aansitter verwyder is nie.
- ⚠ Gebruik slegs haak- en lunspeen met die korrekte spesifikasies, soos dié wat saam met die implement verskaf is.

➤ F210 TurfPro Finishing Mower

Die implement is toegerus met 'n standaard 3-punt-haak om dit aan die trekker te koppel, insluitend 'n floteringskakel vir bo-skakel-koppeling.

- ✓ Met die implement in die werksposisie, verstel die lengte van die trekker se 3-punt-boskakel (Fig. 1-A) sodat die floterings skakel (Fig. 1-B) in omtrent 'n 45 grade-posisie is.

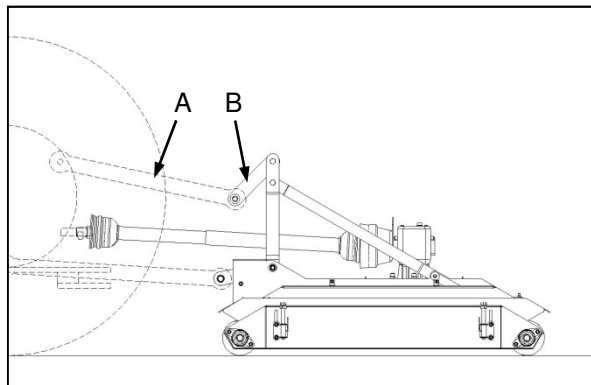


Fig. 1

- ✓ After attachment to the tractor, lift the implement to an acceptable transport height and ensure that there is no contact between the implement and any part of the tractor.
- ✓ Adjust the tractor 3-point hitch stabiliser arms to prevent excessive lateral movement of the implement.
- ✓ Set the tractor hitch lift arms to a floating position to enable independent movement of the arms during cutting.

➤ Rotagang®

The implement is provided with two means of attachment to the tractor, each used in specific circumstances.

1. Carrier frame: Used ONLY for lifting and transporting the implement between work sites.
2. Telescopic drawbar: For towing the implement while cutting.

The carrier frame is equipped with a standard 3-point hitch for attachment to the trekker, but during the cutting

- ✓ Nadat dit aan die trekker gehaak is, lig die implement tot 'n aanvaarbare vervoerhoogte op en verseker dat daar geen kontak tussen die implement en enige deel van die trekker is nie.
- ✓ Verstel die trekker se 3-punt-haak-stabiliseerderarms om oormatige sywaartse beweging van die implement te verhoed.
- ✓ Stel die trekkerhaak se laerskakelarms in die floterings posisie om onafhanklike beweging van die arms tydens sny moontlik te maak.

➤ Rotagang®

Die implement kan op twee maniere aan die trekker gehaak word, elk in bepaalde omstandighede.

1. Draraam: SLEGS vir wanneer die implement opgelig en tussen werksterreine vervoer moet word.
2. Teleskopiese trekstang: Om die implement tydens sny te sleep.

Die draraam is toegerus met 'n standaard 3-punt-haak vir aanhaak aan die trekker, maar tydens die snyproses MOET

process the carrier frame **MUST** be detached from the implement and raised to a sufficient height to clear the implement during operation.

- ✓ Remove die front attachment pins (Fig. 2-A) en die lifting chain attachment clips (Fig. 2-B).
- ✓ Lift die carrier frame to an acceptable safe working height (Fig. 3-A), and store die lifting chains by looping them back to their attachment points (Fig. 3-B).
- ⊖ Failure to detach die carrier frame from the implement during cutting will result in damage and other failures not covered under warranty.

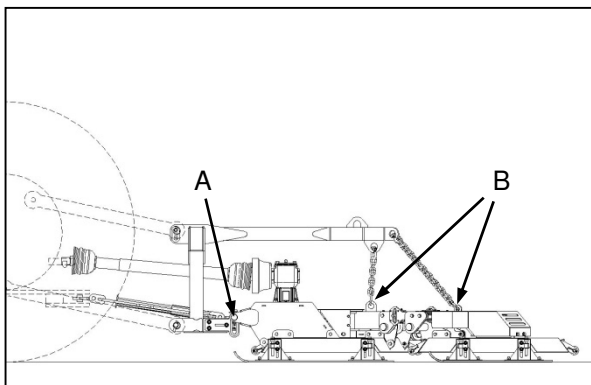


Fig. 2

die draraam losgemaak word van die implement en hoog genoeg opgelig word om die implement tydens bedryf vrylik te laat beweeg.

- ✓ Verwyder die voorste aanhaakpenne (Fig. 2-A) en die opligketting-aanhegknippe (Fig. 2-B).
- ✓ Lig die draraam tot 'n aanvaarbare veilige werks hoogte (Fig. 3-A), en stoor die opligkettings deur hulle aan hulle hegpunte te haak (Fig. 3-B).
- ⊖ Versuim om die draraam tydens gebruik van die implement los te maak sal tot skade en ander onklaarraking lei wat nie deur die waarborg gedek word nie.

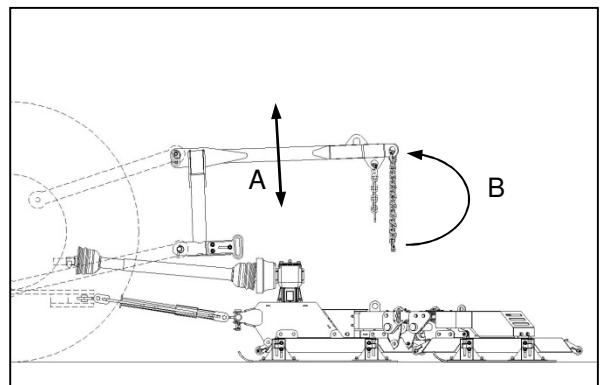


Fig. 3

The implement is equipped with a telescopic drawbar (Fig. 4-A) which extends while towing the implement. It also has the capability to retract when positioning the tractor in relation to the implement (e.g. when attaching / detaching the carrier frame).

- ⊖ This implement must **NOT** be operated in reverse. Any attempt to use the tractor to reverse the implement while it is on the ground will result in damage and other failures not covered under warranty.

The telescopic drawbar is also fitted with various check-chains which require adjustment prior to use of the implement.

Die implement beskik oor 'n teleskopiese trekstang (Fig. 4-A) wat langer word terwyl die implement gesleep word en korter wanneer die trekker in verskillende verhoudings tot die implement geposisioneer word (bv. wanneer die draraam aangeheg of losgemaak word).

- ⊖ Moet **NIE** die implement m.b.v. die trekker agteruit probeer stoot terwyl die implement op die grond is nie – dit sal tot skade en ander onklaarraking lei wat nie deur die waarborg gedek word nie.

Die teleskopiese trekstang is ook toegerus met verskeie keerkettings wat voor gebruik van die implement verstel moet word.

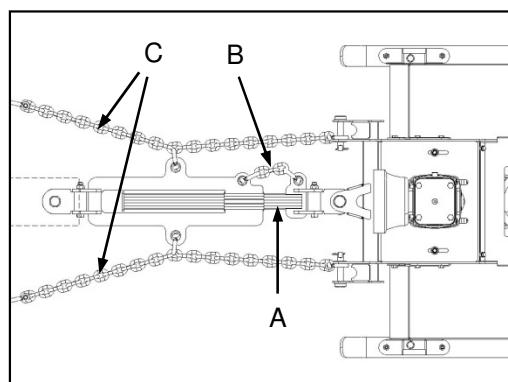


Fig. 4

- ✓ Set the length of the drawbar extension check-chain (Fig. 4-B) to control the maximum extension of the drawbar when towing.
- ✓ Set the lengths of the drawbar lateral check-chains (Fig. 4-C) to prevent excessive articulation of the drawbar, and to prevent the likelihood of contact between the drawbar and tractor tyres while cornering.

Installing the PTO drive shaft

- ⚠ Ensure proper engagement between the PTO drive shaft couplings and the input and output shafts on the implement and tractor.
- ⚠ Ensure sufficient overlap of the PTO drive shaft tubes at the working position.
- ⚠ Do not exceed the specified PTO drive shaft speed.
- ⚠ Do not operate the implement without PTO drive shaft guards in place and in good condition. Anti-rotation chains must be attached.
- ⚠ Replace damaged or missing PTO guard parts with original spare parts only.
- ⚠ Do not approach the rotating PTO drive shaft, and avoid loose-fitting clothing to prevent entanglement.

Due to the many variations in tractor and implement hitch configurations, it is likely that the supplied PTO drive shaft will have to be cut to suit the operating distance between the tractor and the implement.

- ✓ Before cutting the PTO drive shaft to the appropriate operating length, refer to the manufacturer's instructions supplied with the PTO drive shaft.
- ✓ Following installation of the PTO drive shaft, lift the implement to an acceptable transporting height and ensure that there is no contact between the PTO driveshaft and the implement (Fig. 5-A).
- ✓ Ensure that universal joint operating angles (Fig. 5-B) are not exceeded and that over-compression or over-extension of the PTO drive shaft is avoided.

- ✓ Stel die lengte van die trekstangverlengingkeerketting (Fig. 4-B) om die maksimum verlenging van die trekstang tydens gebruik te beheer.
- ✓ Stel die lengtes van die trekstang se laterale keerkettings (Fig. 4-C) om uitermate artikulasie van die trekstang te verhoed asook moontlike kontak tussen die trekstang en die trekkerbande wanneer gedraai word.

Installering van die kragaftakkeras

- ⚠ Verseker behoorlike inskakeling tussen die krag-aftakkeras se koppelstukke en die inset- en leweringsasse aan die implement en trekker.
- ⚠ Verseker voldoende oorvleueling van die kragaftakkeras se buise in die werkposisie.
- ⚠ Moenie die gespesifiseerde kragaftakkeras-spoed oorskry nie.
- ⚠ Moenie die implement bedryf sonder dat kragaftakkeras-skerm in posisie en in 'n goeie toestand is nie. Antirotasie-kettings moet aangeheg wees.
- ⚠ Vervang beskadigde of afwesige kragaftakkeras-skerm-onderdele slegs met oorspronklike onderdele.
- ⚠ Moenie naby die draaiende kragaftakkeras kom nie en verhoed lospassende kleres om verstremgeling te vermy.

Vanweë die talle variasies in trekker- en implementhaak-konfigurasies sal die kragaftakkeras wat verskaf is, waarskynlik verkort moet word om by die werksafstand tussen die trekker en die implement te pas.

- ✓ Voordat die kragaftakkeras tot die gepaste werkslengte gesny word, verwys na die vervaardigersinstruksies wat saam met die kragaftakkeras voorsien is.
- ✓ Nadat die kragaftakkeras geïnstalleer is, lig die implement tot op die gepaste vervoerhoogte en verseker dat daar geen kontak tussen die kragaftakkeras en die implement is nie (Fig. 5-A).
- ✓ Verseker dat kruiskoppelingwerkshoeke (Fig. 5-B) nie oorskry word nie en maak seker dat die kragaftakkeras nie te veel saamgepers of oorverleng is nie.

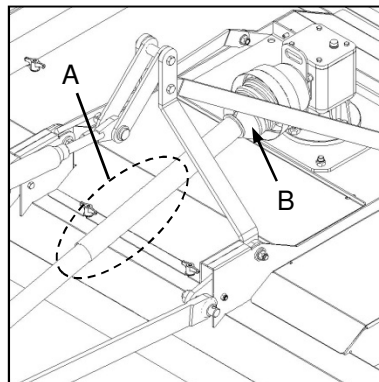


Fig. 5 (F210 TurfPro)

- All PTO drive shafts supplied on Falcon implements are accompanied by a product handbook (IM-03-2008)

- Alle kragaftakkeraste wat voorsien word saam met Falcon produkte word verskaf met 'n handleidingsboek

describing all aspects of installation, operation, maintenance and safety with respect to the PTO drive shaft. The document constitutes part of this manual and will be found attached to the PTO drive shaft supplied with each new Falcon implement.

(IM-03-2008) wat alle aspekte van installasie, operasionele verbruik, onderhoud en veiligheidsmaatreëls i.v.m. die kragaftakkeras verduidelik. Die dokument vorm deel van die handleiding en sal aangeheg word aan elke kragaftakkeras wat op elke nuwe implement deur Falcon voorsien word.

Settings and adjustment

- ⚠ Do not perform maintenance or any other work on the implement unless the tractor engine is shut off, handbrake applied and the key removed from the ignition.
- ⚠ Do not perform maintenance or any other work on the implement while it is suspended only on the tractor 3-point hitch, or without suitable additional support for the implement.

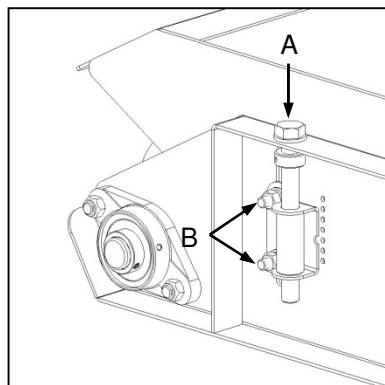


Fig. 6

> All models

The working height of the implement is set by adjusting the position of the side panels or skids in relation to the implement deck.

- ✓ To set the working height of the implement, loosen the adjuster locknuts (Fig. 6-B/7-B) and adjust the lead screw provided (Fig. 6-A/7-A). Ensure the implement is level by establishing similar settings at all adjustment points.

Lubrication and oil levels

> All models

Confirm that all gearbox oil levels are correct and all bearing housings properly greased prior to use of the implement.

- ✓ The gearbox is equipped with an oil filling port. Remove the filler plug (Fig. 8-A) and add oil through the filling port so that the oil level coincides with the bottom edge of the hole.
- ✓ Spindle bearing housings are provided with grease nipples (Fig. 9-A). Fill with grease until grease just appears to exit the vent hole (Fig. 9-B).

Instelling en verstelling

- ⚠ Moenie enige instandhouding- of ander werk aan die implement doen tensy die trekkerenjin afgeskakel, die handrem opgetrek en die sleutel uit die aansitter verwyder is nie.
- ⚠ Moenie enige instandhouding- of ander werk aan die implement uitvoer terwyl dit nog aan die trekker se 3-punthaak hang, en sonder addisionele steun vir die implement nie.

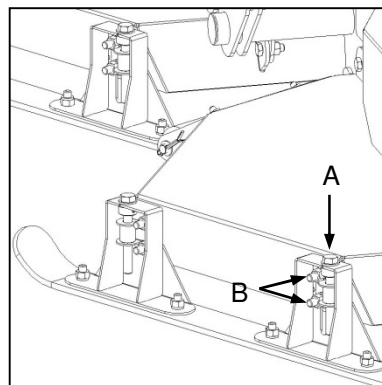


Fig. 7

> Alle modelle

Die werkshoogte van die implement word gestel deur die posisie van die sypaneel of glystukke in verhouding tot die implementdek te verstel.

- ✓ Om die implement se werkshoogte te stel, maak die sluitmoere los (Fig. 6-B/7-B) en verstel die leiskroef wat voorsien is (Fig. 6-A/7-A). Kry die implement waterpas deur middel van dieselfde instelling by al die verstelpunte.

Smearing en olievlakke

> Alle modelle

Bevestig dat alle ratkasolievlakke korrek is en alle koeëllaeromhulsels behoorlik gegries is voor gebruik.

- ✓ Die ratkas het 'n olievlak. Verwyder die vulprop (Fig. 8-A) en gooi olie by totdat die olievlak gelyk is met die onderste rand van die gat.
- ✓ Spilkieëllaeromhulsels het ghriesnippels (Fig. 9-A). Vul met ghries totdat die ghries net-net uit die luggat begin kom (Fig. 9-B).

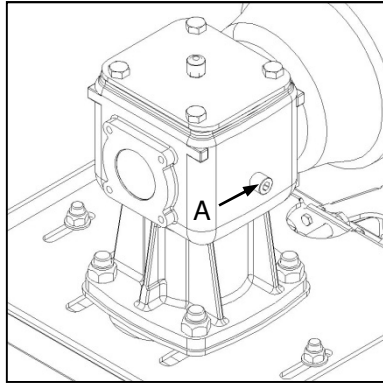


Fig. 8 (Rotagang®)

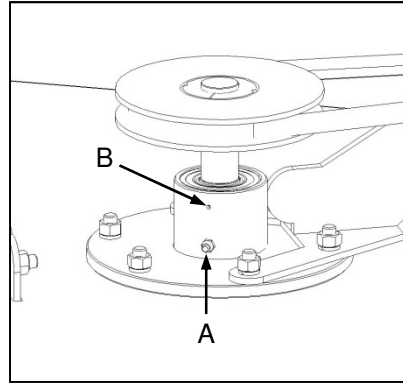


Fig. 9 (Rotagang®)

Ensure that the PTO shaft is properly lubricated before using the implement.

- ✔ Apply grease to the universal joints (Fig. 10-A) and telescopic tubes (Fig. 10-B) of the PTO drive shaft.
- ✔ Refer to the PTO drive shaft manufacturer's handbook supplied with the implement.

Verseker dat die kragtakkeras behoorlik gegries is voor die implement gebruik word.

- ✔ Ghries die kruiskoppelings (Fig. 10-A) en teleskopiese buise (Fig. 10-B) van die kragtakkeras.
- ✔ Verwys vir verdere inligting na die vervaardigers-handleiding wat saam met die implement voorsien is.

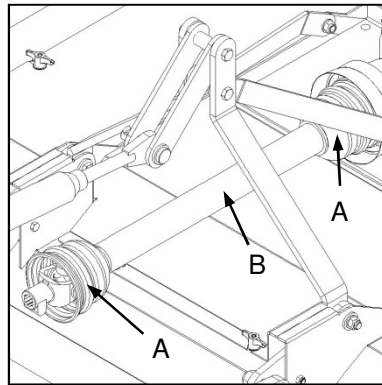


Fig. 10 (F210 TurfPro)

- ➡ For lubrication requirements, refer to MAINTENANCE, Table 2, Lubrication Requirements.

- ➡ Vir smeringvereistes, verwys na INSTANDHOUDING, Tabel 2, Smeringvereistes.

OPERATION

General

It is the responsibility of the Owner to ensure that the operation of an agricultural tractor and any attached equipment is carried out in accordance with all applicable laws, regulations and practices relating to safe and responsible operation.

- ➊ Applicable regulations should include but not be limited to the South African Occupational Health and Safety Act No. 83 of 1993 and the South African National Road Traffic Act No. 93 of 1996.
- ➋ Refer also to operational information relevant to the tractor concerned, including handbooks, operators manuals, safety and warning notices and decals.

Preparation for use

- ⚠ Only suitably trained persons should operate the implement and no person should operate the implement without first studying and establishing a complete understanding of the content of this manual.

The implement should be thoroughly inspected and prepared before each use and with reference to procedures described elsewhere in this manual.

1. Attaching the implement to the tractor.
2. Installing the PTO driveshaft.
3. Settings and adjustment.
4. Lubrication and oil levels.
5. Routine maintenance (before and after each use).

Inspect the work area.

- ✔ Remove any movable obstructions from the work area, especially any object which may become a projectile.
- ✔ Note the presence of holes, stumps, rocks, or any other obstruction that might destabilise the tractor or cause damage to the implement. Remove these obstacles where possible, otherwise note and avoid these areas during cutting.

Operating the implement

- ⚠ Never approach, or allow anyone else to approach, the implement unless the implement has been lowered to the ground, the tractor engine shut off and the handbrake applied, and the implement's cutting gear has come to a complete stop.
- ⚠ Actively discourage spectators and cease operation of the implement if any person approaches or enters the work area.
- ⚠ Operate the implement only at the specified PTO shaft speed.

WERKING

Algemeen

Dit is die verantwoordelikheid van die eienaar om te verseker dat die bedryf van 'n landboutrekker en enige gekoppelde toerusting uitgevoer word in ooreenstemming met alle toepaslike wette, regulasies en praktyke wat met veilige en verantwoordelike bediening te doen het.

- ➊ Toepaslike regulasies sluit in, maar is nie beperk tot, die Suid-Afrikaanse Wet op Beroepsgesondheid en Veiligheid nr. 85 van 1993 en die Suid-Afrikaanse Wet op Nasionale Padverkeer nr. 93 van 1996 nie.
- ➋ Verwys ook na tersaaklike bedryfsinligting oor die betrokke trekker, insluitend handboeke, operateurs-handleidings, veiligheid en waarskuwingskennisgewings en -plakkers.

Voorbereiding vir gebruik

- ⚠ Slegs toepaslik opgeleide persone moet die implement bedryf, en geen persoon moet dit bedryf sonder om eers die inhoud van hierdie handleiding te bestudeer en 'n volledige begrip daarvan te verkry nie.

Die implement moet telkens eers deeglik geïnspekteer en voorberei word voor dit gebruik word en met verwysing na prosedures wat in ander dele van hierdie handleiding beskryf word.

1. Koppeling van die implement aan die trekker.
2. Installering van die kragaftakkeras.
3. Instellings en verstellings.
4. Smering en olievlakke.
5. Roetine-instandhouding (voor en na elke gebruik).

Inspekteer die werksgebied.

- ✔ Verwyder enige los obstrukties van die werksgebied, veral enige voorwerp wat dalk 'n projektiel mag word.
- ✔ Let op enige dongas, gate, stompe, klippe, of enige ander obstruksie wat die trekker mag destabiliseer of die implement kan beskadig. Verwyder hierdie hindernisse waar moontlik, of anders moet hierdie gebiede gedurende sny vermy word.

Bedryf van die implement

- ⚠ Moet nooit die implement benader, of toelaat dat enigiemand anders dit doen, tensy die implement op die grond laat sak is, die trekkerenjin afgeskakel is, die handrem opgetrek en die implement se snymeganisme heeltemal tot stilstand gekom het nie.
- ⚠ Toeskouers moet aktief ontmoedig word. Snywerk moet onmiddellik gestaak word as enige persoon die werksgebied benader of dit betree.
- ⚠ Verseker dat die implement slegs teen die gespesifiseerde kragaftakkerasinsetspoed bedryf word.

- ⚠ Do not approach the rotating PTO shaft, and avoid loose-fitting clothing, to prevent entanglement.
- ⊖ Failure to operate the implement at the specified PTO shaft speed can result in unsafe operating conditions as well as structural and mechanical failure not covered under warranty.

With precision turf cutting, proper implement set-up in relation to the characteristics of the material being cut will always produce more consistent results and extend the service life of the implement.

- ⊖ Due to the large variation in material properties and operating conditions, the actual capability of the implement in the intended application should be established by test, and in consultation with an authorised Falcon Dealer.
- ⊖ All recommended quantities, dimensions and capacities are intended as a guide only.

➤ The Rule of “Thirds”

In general, it is recommended no more than one third of the maximum material height be removed with each pass of the cutting process.

- ⚠ Moenie die draaiende kragtakkeras nader nie en verhoed verstrengeling deur lospassende klere te vermy.
- ⊖ Versuim om die implement teen die gespesifiseerde kragtakkerasinsetspoed te bedryf kan onveilige bedryfstoeestand skep, en ook strukturele en meganiese onklaarraking veroorsaak wat nie deur die waarborg gedek word nie.

Met die presiesiesny van grasbane sal die behoorlike opstelling van implemente in verhouding tot die eienskappe van die betrokke materiaal altyd meer konsekwente resultate lewer en die dienslewe van die implement verleng.

- ⊖ Vanweë die groot variasie in materiaaleienskappe en bedryfstoeestand moet die werklike vermoë van die implement vir die voorgenome werk deur proefneming vasgestel word, en in oorleg met 'n gemagtigde Falcon-handelaar.
- ⊖ Alle aanbevole hoeveelhede, afmetings en kapasiteite dien bloot as riglyne.

➤ Die Reël van “Derdes”

In die algemeen word aanbeveel dat hoogstens een derde van die maksimum materiaalhoogte met elke gang van die snyproses verwyder word.

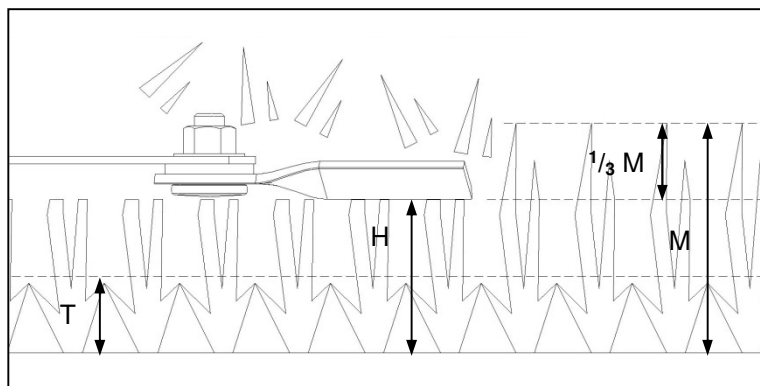


Fig. 1

To determine implement cut height settings.

- ✓ To achieve target height (Fig. 1-T).
- ✓ Measure the approximate material height (Fig. 1-M).
- ✓ Maximum amount of material to be removed on each pass = $1/3 M$.
- ✓ Corresponding implement height setting (Fig. 1-H).

Consequently, to eliminate the need for multiple cutting passes (at various height settings), more frequent cutting should be conducted - ideally on each occasion that the material has grown by 50% over its specified height.

Om implementsnyhoogtes te bepaal.

- ✓ Om die teikenhoogte te bewerkstellig (Fig. 1-T).
- ✓ Meet die geskatte materiaalhoogte (Fig. 1-M).
- ✓ Maksimum hoeveelheid materiaal wat met elke gang verwyder moet word = $1/3 M$.
- ✓ Ooreenkomstige implementhoogtestelling (Fig. 1-H).

Gevolgtik, om veelvoudige snygange onnodig te maak (op verskeie hoogtestellings), moet daar meer dikwels gesny word – ideaal gesproke telkens wanneer die materiaal meer as 50% bo die gespesifiseerde hoogte gegroei het.

- ➔ Considering the above relationships, the following maximum material height limitations should be adhered to:
 1. F210 TurfPro = 90 mm.
 2. Rotagang® = 75 mm.
- ➔ Initial heights in excess of these should be processed by some other means prior to use of these implements.

➤ F210 TurfPro Finishing Mower

The implement is equipped with a scroll system (Fig. 2-A) for controlled dispersion of cut material and for increased mulching effectiveness during cutting.

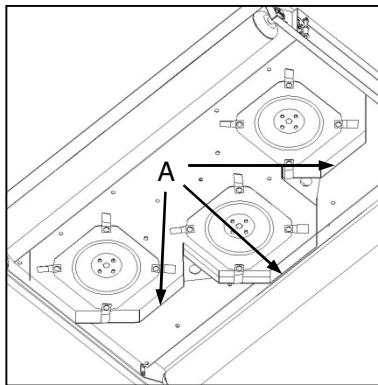


Fig.2

- ➔ Met bogenoemde verhoudings in ag genome, moet by die volgende maksimum materiaalhoogtebeperkings gehou word:
 1. F210 TurfPro = 90 mm.
 2. Rotagang® = 75 mm.
- ➔ Beginhoogtes hoër as hierdie moet deur ander middele verwerk word voor gebruik van hierdie implemente.

➤ F210 TurfPro Finishing Mower

Die implement beskik oor 'n krulstelsel (Fig. 2-A) vir beheerde verspreiding van gesnyde materiaal en vir groter mulch-effektiwiteit gedurende sny.

- ➔ To ensure efficient discharge and mulching, and to prevent excessive fuel consumption, the scroll system should be regularly checked for clogging and damage.

The cutting process

The following procedure is recommended for starting the cutting process and, in general, should be followed on each occasion that the PTO input is engaged.

- ➔ These implements should NOT be started while in a stationary position on a high-quality turf surface, as this may result in undesirable markings being left behind.
- ➔ In general, these implements should only be started once some degree of tractor forward movement has been established.

➤ F210 TurfPro Finishing Mower

- ✔ Start the tractor with the implement suspended on the tractor 3-point hitch and in an area clear of large volumes of material.
- ✔ Lower the implement so that skids are just clear of the ground and engage the tractor PTO at idling speed.
- ✔ Gradually increase the tractor throttle position to achieve the specified PTO operating speed, place the tractor in a low gear and begin to approach the material to be cut.
- ✔ Lower the implement to the operating position once acceptable forward speed has been established.

- ➔ Om doeltreffende afvoer en mulch te verseker, en om oormatige brandstofverbruik te verhoed, moet die krulstelsel gereeld vir verstopping en skade nagegaan word.

Die snyproses

Die volgende prosedure word aanbeveel om die snyproses te begin en moet in die algemeen gevolg word elke keer wanneer die kragaftakker gebruik word.

- ➔ Hierdie implemente moet NIE in stilstande posisie op 'n hoëgehalte-grasbaanoppervlak aan die gang gesit word nie, omdat ongewenste merke agtergelaat kan word.
- ➔ In die algemeen moet hierdie implemente aan die gang gesit word eers wanneer die trekker vorentoe begin beweeg het.

➤ F210 TurfPro Finishing Mower

- ✔ Skakel die trekkerenjin aan met die implement wat aan die 3-punt-haak hang en in 'n gebied wat vry is van groot volumes materiaal.
- ✔ Laat die implement sak sodat die glystukke net bokant die grond is en aktiveer die kragaftakker teen luierspoed.
- ✔ Versnel geleidelik met die handversneller totdat die voorgeskrewe kragaftakkerbedryfspoed bereik word, skakel die trekker in 'n lae rat en begin na die materiaal beweeg wat gesny moet word.
- ✔ Laat sak die implement na die werksposisie eers nadat die trekker teen 'n aanvaarbare spoed begin beweeg het.

➤ Rotagang®

- ✔ Start the tractor with the implement attached to the tractor towing hitch and in an area clear of large volumes of material.
 - ✔ Place the tractor in a low gear and begin to approach the area to be cut.
 - ✔ Engage the tractor PTO at this low speed and then gradually increase the tractor throttle position to achieve the specified PTO operating speed and corresponding forward speed.
-
- ⊖ Unless otherwise indicated, the specified implement PTO input speed shall be 540 r/min.
 - ⊖ On tractors with an "economy" PTO drive option (indicated as 540E on the tractor tachometer) refer to the tractor operators manual in selecting the relevant PTO gearbox ratio on the tractor to maintain the specified implement PTO input speed.

Controlling the cutting process.

- ✔ Tractor forward speed should be controlled by gear selection and NOT engine speed.
- ✔ Tractor engine speed must be pre-set to continually provide the specified PTO input speed, while forward speed should be controlled by appropriate gear selection.
- ✔ In general, the optimal gear selection can be identified by selecting the highest forward speed which does not result in stalling or the ejection of large unprocessed pieces of material.
- ✔ Forward speed, material volumes and material density should be controlled in order to prevent unnecessary reduction of the equipment lifespan, as well as other damage and failures not covered under warranty.
- ✔ In the case of the Rotagang®, care must be taken to limit forward speed while cornering. This will limit the likelihood of the "slingshot" effect causing the implement to drift towards nearby obstacles.

Transportation and storage

➤ F210 TurfPro Finishing Mower

The implement may be transported on the tractor 3-point hitch between work sites.

- ✔ Ensure that the implement is lifted to a suitable height to clear any obstacles.
- ✔ Adjust stabilisers on the tractor hitch to prevent excessive lateral sway and possible contact with the tractor tyres.
- ✔ Maintain a speed low enough to prevent excessive bouncing and resultant damage to mounting points and other load-bearing components.

➤ Rotagang®

- ✔ Skakel die trekker aan met die implement aangehaak en in 'n gebied wat vry is van groot volumes materiaal.
 - ✔ Sit die trekker in 'n lae rat en begin in die rigting van die gebied ry waar gesny gaan word.
 - ✔ Aktiveer die trekker se kragaftakker teen hierdie lae spoed en versnel dan geleidelik met die handversneller totdat die gespesifiseerde kragaftakkerbedryfspoed en ooreenstemmende vorentoe spoed bereik word.
-
- ⊖ Tensy anders aangedui, is die gespesifiseerde implement se kragaftakkerinsetspoed 540 r/min.
 - ⊖ By trekkers met 'n "ekonomie"-kragaftakker-dryfopsie (aangedui as 540E op die trekker se toereter) verwys na die trekkerbestuurder se handleiding vir die kies van die tersaaklike kragaftakkerattasverhouding om die gespesifiseerde implement se kragaftakkerinsetspoed te handhaaf.

Beheer van die snyproses.

- ✔ Die trekker se vorentoe spoed moet deur ratseleksie en NIE enjin spoed beheer word.
- ✔ Trekkerenjin spoed moet vooraf gestel word om die vereiste kragaftakkerinsetspoed konstant te hou, terwyl vorentoe spoed deur gepaste ratseleksie beheer moet word.
- ✔ Oor die algemeen kan die optimale rat geïdentifiseer word deur die hoogste vorentoe spoed te selekteer wat nie die enjin laat vrek of maak dat groot stukke onverwerkte materiaal uitgewerp word nie.
- ✔ Vorentoe spoed, materiaalvolumes en materiaal digtheid moet beheer word om onnodige verkorting van die toerusting se lewensduur te verhoed, asook ander skade en brekasies wat nie deur die waarborg gedek word nie.
- ✔ Met die Rotagang® moet sorg gedra word om vorentoe spoed te beperk wanneer die trekker draai. Dit sal die waarskynlikheid beperk van die "slingervel"-effek wat die implement dalk nabygeleë hindernisse kan laat tref.

Vervoer en berging

➤ F210 TurfPro Finishing Mower

Die implement kan tussen werksterreine aan die trekker se 3-punt-haak vervoer te word.

- ✔ Verseker dat die implement hoog genoeg gelig is om tydens vervoer bo-oor enige hindernisse te kan beweeg.
- ✔ Verstel stabiliseerders aan die trekkerhaak om oormatige laterale beweging en moontlike kontak met die trekker se bande te verhoed.
- ✔ Handhaaf 'n spoed wat laag genoeg is om oormatige bonsing en gevolglike skade aan monterpunte en ander ladingdraende komponente te verhoed.

➤ **Rotagang®**

The implement may be transported on the tractor 3-point hitch between work sites with the use of the implement carrier frame, supplied for this purpose.

- ⊖ Any attempt to use the implement drawbar to traverse rough terrain will result in damage and other failures not covered under warranty.

➤ **Rotagang®**

Die implement kan tussen werksterreine aan die trekker se 3-punt-haak vervoer word met behulp van die implement-draraam wat vir hierdie doel voorsien word

- ⊖ Enige poging om die implement se trekstang te gebruik om oor ruwe terrein te ry sal skade en ander brekasies veroorsaak wat nie deur die waarborg gedek word nie.

Routine maintenance

- ⚠ Do not perform maintenance or any other work on the implement unless the tractor engine is shut off, handbrake applied and the key removed from the ignition.
- ⚠ Do not perform maintenance or any other work on the implement while it is suspended only on the tractor 3-point hitch, or without suitable additional support for the implement.
- ⚠ Use only original and approved Falcon replacement parts and lubricants. Refer to the parts information provided in this manual.

Maintenance should be carried out before and after each use and in accordance with the schedules provided in this chapter.

- ➡ Bolted connections should be checked for tightness with reference to Bolt Torque Specifications (Table 1).

➤ Before each use

To be carried out at least daily in periods of continuous use. Otherwise before each occasion that the implement is used. Extra care and attention should be given to implements which may have been unused for prolonged periods (longer than 1 month).

- ✔ Check gearbox oil levels and replenish as necessary.
- ✔ Lubricate PTO shaft UV joints and telescopic tubes and inspect for evidence of wear.
- ➡ For lubrication requirements, refer to MAINTENANCE, Table 2, Lubrication.
- ✔ Check all fasteners for tightness. This includes special attention to safety-critical fasteners such as blade bolts and nuts (Fig. 1-A), cutting gear mounting bolts (Fig. 1-B), gearbox mounting bolts (Fig. 2-A), hitch points (Fig. 3-A) and mast retaining bolts (Fig. 3-B).

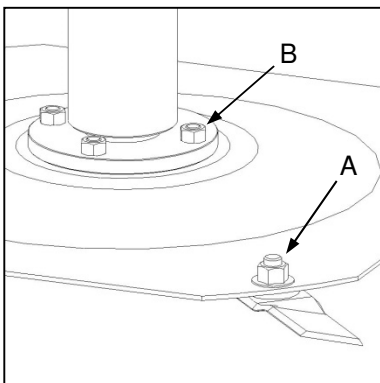


Fig. 1

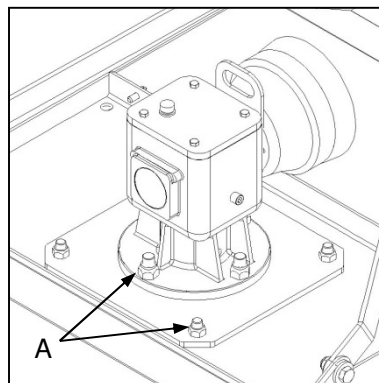


Fig. 2 (F210 TurfPro)

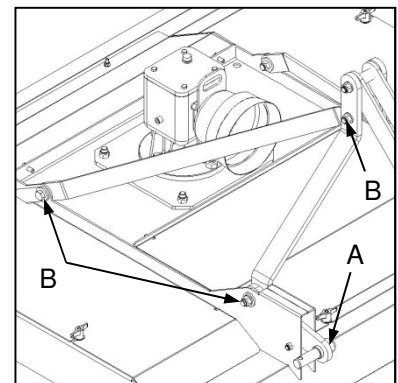


Fig. 3 (F210 TurfPro)

Roetine-instandhouding

- ⚠ Moenie instandhouding- of enige ander werk aan die implement doen tensy die trekkerenjin afgeskakel, die handrem opgetrek en die sleutel uit die aansitterpunt verwyder is nie.
- ⚠ Moenie instandhouding- of enige ander werk aan die implement doen terwyl dit net aan die trekker se 3-punt-haak hang, of sonder geskikte ekstra stutte vir die implement nie.
- ⚠ Gebruik slegs oorspronklike en goedgekeurde Falcon-vervangingsonderdele en smeermiddels. Verwys na die onderdele-inligting in hierdie handleiding.

Instandhouding moet telkens voor en na gebruik gedoen word, en in ooreenstemming met die skedules wat in hierdie hoofstuk vervat is.

- ➡ Verseker dat koppelboute in ooreenstemming met die boutwringkragspesifikasiekaart vas is (Tabel 1).

➤ Voor elke gebruik

Word ten minste daaglik in tye van deurlopende gebruik uitgevoer. Anders voor elke geleentheid waar die implement gebruik word. Gee ekstra sorg en aandag aan implemente wat vir lang tydperke (meer as 'n maand) nie gebruik is nie.

- ✔ Gaan ratkasolievlakke na en vul aan soos benodig.
- ✔ Ghries kragaftakkeras-kruiskoppelings en teleskopiese buise en inspekteer vir tekens van slytasie.
- ➡ Vir smering vereistes, verwys na INSTANDHOUDING, Tabel 2, Smering Vereistes.
- ✔ Verseker dat alle hegstukke vas is. Dit sluit in spesiale aandag aan veiligheidskritieke hegstukke soos lemboute en -moere (Fig. 1-A), snymeganisme monterboute (Fig. 1-B), ratkas monterboute (Fig. 2-A), haakpunte (Fig. 3-A) en masklemboute (Fig. 3-B).

- ✓ Check the drive belt tension as described in this chapter.
- ✓ Inspect blades for indications of wear and replace as necessary.
- ✓ Ensure that all guards, shields and other safety devices are in place, properly secured and in good condition.
- ✓ Inspect all mounting pins, chains, shackles and other load-bearing components for signs of wear. Check that all secondary securing mechanisms such as linchpins, split-pins and clips are in place.
- ✓ Run the implement up to operating speed and conduct visual and audible checks for excessive vibration and noise.

- ⊖ Causes of excessive vibration and noise must be identified and eliminated immediately to prevent consequential structural or mechanical failure not covered under warranty.

➤ After each use

To be carried out at least every 40 hours in periods of continuous use, otherwise after each occasion that the implement is used, or before long-term storage (longer than 1 month).

- ✓ Clean all debris from the implement, particularly the underside of the deck. Where pressurised cleaning is undertaken, care must be taken in areas around seals, breathers, lubrication points and PTO driveshaft components.
- ✓ Thoroughly inspect the implement for any damages incurred during use and note these for attention prior to next use.
- ✓ Check v-belt drive system for signs of slippage and wear. Usually indicated by black rubber residue within the drive belt chamber, possibly accompanied by burning odours.
- ✓ Ensure that all safety and warning decals are in place, visible and in a legible condition.
- ✓ Before long-term storage (longer than 1 month), check oil levels and thoroughly lubricate all specified lubrication points.
- ✓ Store the implement in a clean, dry, weather-protected area.

Drive belt adjustment

- ⊖ Drive belt tension (Fig. 5-T) should be checked at the mid-point of the longest belt path between pulley centres. A deflection of ± 20 mm should be evident when single-finger pressure is applied to a single belt.

➤ F210 TurfPro Finishing Mower

The implement is equipped with a double, overlapping, symmetrical v-belt drive system.

Adjusting drive belt tension (using right-hand side as example).

- ✓ Kontroleer die dryfbandspanning soos in hierdie hoofstuk beskryf word.
- ✓ Inspekteer lemme vir tekens van slytasie en vervang indien nodig.
- ✓ Verseker dat alle skutplate en ander veiligheidstoestelle in posisie is, behoorlik vas en in 'n goeie toestand is.
- ✓ Gaan alle monteerpenn, kettings, penskakels en ander lasdraende komponente na vir tekens van slytasie. Verseker dat alle sekondêre hegmeganismes soos lunspenne, splitpenne en knippe in posisie is.
- ✓ Versnel die implement tot werkspoed en voer visuele en gehoorinspeksies uit vir oormatige vibrasie en geraas.

- ⊖ Oorsake van oormatige vibrasie en geraas moet geïdentifiseer en onmiddellik uitgeskakel word om gevolglike strukturele of meganiese onklaarraking te verhoed wat nie deur die waarborg gedek word nie.

➤ Na elke gebruik

Word ten minste elke 40 uur in tye van deurlopende gebruik uitgevoer. Anders na elke geleentheid wat die implement gebruik is, of voor langtermynberging (langer as 1 maand).

- ✓ Verwyder alle vuiligheid van die implement, veral onder die dek. Drukspuitskoonmaak moet versigtig gedoen word, veral naby seëls, luggate, ghriespunte en kragtakkeras-komponente.
- ✓ Inspekteer die implement deeglik vir enige beskadiging tydens gebruik. Merk dit aan vir aandag en herstel voor dit weer gebruik word.
- ✓ Kontroleer die v-band-dryfstelsel vir tekens van gly en slytasie - gewoonlik swart rubberreste in die dryfbandomhulsel, en moontlik selfs 'n brandreuk.
- ✓ Verseker dat alle veiligheids- en waarskuwingsplakkers in posisie, sigbaar en leesbaar is.
- ✓ Voor langtermynberging moet olievlakke in die implement nagegaan en alle ghriespunte deeglik gesmeer word.
- ✓ Stoor die implement in 'n droë, skoon, weerbestande plek.

Verstelling van dryfband

- ⊖ Dryfbandspanning (Fig. 5-T) moet halfpad tussen die katrolsentrums gekontroleer word. Speling van ± 20 mm behoort met eenvingerdruk op 'n enkele band sigbaar te wees.

➤ F210 TurfPro Finishing Mower

Die implement is toegerus met 'n dubbele, oorvleuelende, simmetriese v-band-dryfstelsel.

Verstelling van dryfbandspanning (met regterkant as voorbeeld).

- ✓ Remove the plastic wingnuts (Fig. 4-A) on the right-hand side and rear covers. Lift and slide out covers.
- ✓ Loosen the locking nut (Fig. 5-A) and pivot point nut (Fig. 5-B) on the relevant belt tensioner.

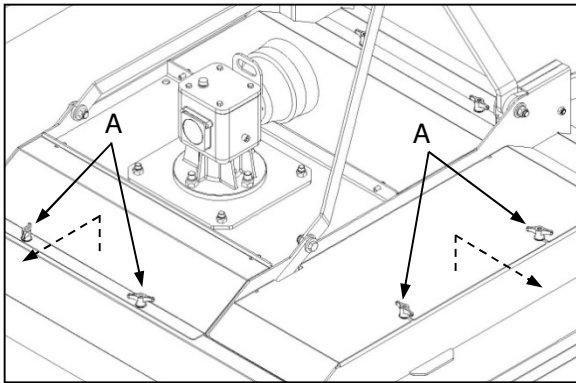


Fig. 4

- ✓ Verwyder die vleuelmoere (Fig. 4-A) aan die regterkantste en agterste dekplate. Lig en skuif plate uit.
- ✓ Maak die sluitmoer (Fig. 5-A) en spilpuntmoer (Fig. 5-B) aan die relevante bandspanner los.

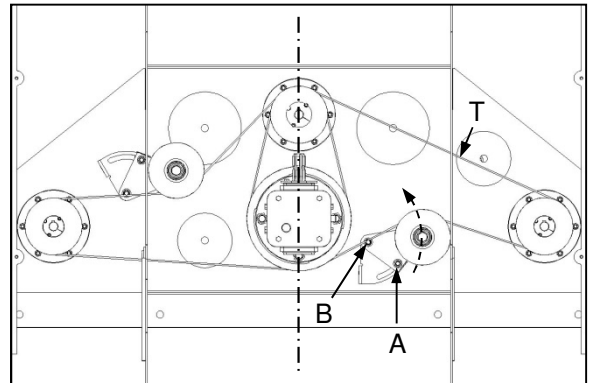


Fig. 5

- ✓ Press the belt tensioner pulley by hand ONLY, until the appropriate belt tension is achieved.
- ✓ Retighten the locking nuts and pivot point nuts.

➤ Rotagang®

The implement is equipped with both primary (front) and secondary (rear) v-belt drive systems.

Adjusting the primary drive belt tension.

- ✓ Remove the relevant drive belt cover.
- ✓ Loosen the primary belt adjuster locking nuts and gearbox mounting bolts (Fig. 6-A).
- ✓ Adjust the front belt adjuster lead screw (Fig. 6-B) until the appropriate belt tension is achieved.
- ✓ Retighten the primary belt adjuster locking nuts and gearbox mounting bolts.

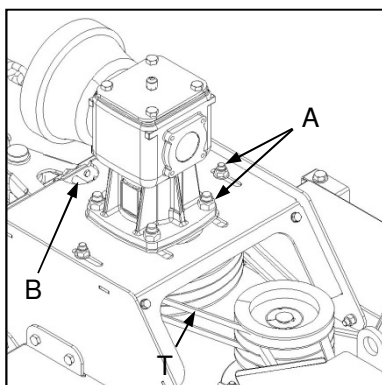


Fig. 6

- ✓ Druk die bandspannerkatrol SLEGS met die hand, totdat die gepaste bandspanning bereik word.
- ✓ Draai die sluitmoere en spilpuntmoere weer vas.

➤ Rotagang®

Die implement het sowel primêre (voor) en sekondêre (agter) v-band-dryfstelsels.

Verstelling van die primêredryfbandspanning.

- ✓ Verwyder die relevante dryfbanddekplaat.
- ✓ Draai die primêre band se verstelsluitmoere en die ratkasmonteerboute los (Fig. 6-A).
- ✓ Verstel die verstelleiskroef van die voorste band (Fig. 6-B) totdat die gepaste bandspanning bereik word.
- ✓ Draai die primêre band se verstelsluitmoere en die ratkasmonteerboute weer vas.

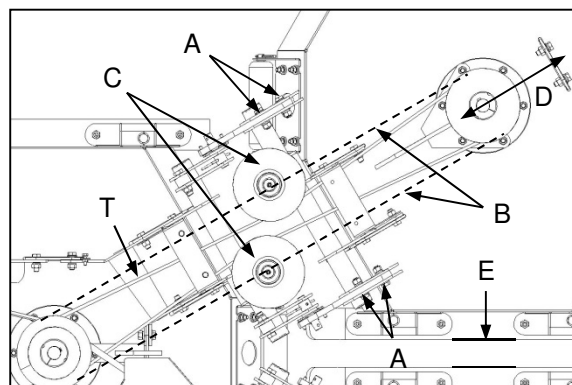


Fig. 7

Adjusting the secondary drive belt tension.

- ✓ Place the implement on a solid, clean level surface - such as a concrete floor.
- ✓ Remove the relevant drive belt covers.

Verstelling van die spanning van die sekondêredryfbandspanning.

- ✓ Plaas die implement op 'n soliede, skoo, gelyk oppervlak, soos 'n sementvloer.
- ✓ Verwyder die relevante dryfbanddekplate.

- ✓ Loosen the adjuster locking nuts (Fig. 7-A) immediately behind the deck pivot pins, and allow the drive belt to lie OVER the idler pulley group (Fig. 7-C).
- ✓ Ease the rear deck backwards (Fig. 7-D) such that all slack in the belt is taken up and the belt adopts a straight line between pulleys (Fig. 7-B). Ensure also that the deck skids remain aligned with the implement direction of travel (Fig. 7-E).
- ✓ Retighten the adjuster locking bolts.
- ✓ To achieve the required belt tension, ease (by hand) each side of the belt into respective idler pulley slots.

Blade replacement

- ⚠ The cutting gear installed on these implements rotates at extremely high speed. Improper maintenance or repairs can result in failures which might cause serious damage, injury or death.
- ⚠ Use only original Falcon parts of the correct specification and grade for installation of the implement cutting gear. High-speed failure of rotating parts can result in serious damage, injury or death.

Blades should be replaced if they become damaged, bent or broken or have been reduced in mass by more than 20% as a result of wear.

- ✓ Replace ALL mounting hardware when fitting new blades. This includes blade bolts and nuts.
- ✓ Check blade mounting holes (Fig. 8-A) for signs of wear, elongation or fractures. In the event of any observed defect do NOT attempt a repair, but immediately replace the defective disc.

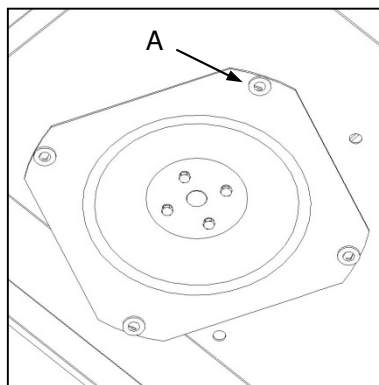


Fig. 8

- ✓ Check blade discs for distortion before installation of new blades. Run the implement at a low speed without the blades attached and check for visible run-out (both radially and vertically) at the perimeter of the disc. In the event of any observed defect do NOT attempt a repair, but immediately replace the defective disc.
- ✓ Following any maintenance or replacement of cutting gear components, run the implement up to operating

- ✓ Draai die verstelsluitbout (Fig. 7-A) onmiddellik agter die dekspilpenne los, en laat die dryfband OOR die luierkatrolgroep lê (Fig. 7-C).
- ✓ Druk die agterste dek geleidelik agtertoe (Fig. 7-D) totdat daar geen speling meer in die band is nie en die band 'n reguit lyn tussen katrolle vorm (Fig. 7-B). Verseker ook dat die dekglystukke belyne bly met die implement se bewegingsrigting (Fig. 7-E).
- ✓ Draai die verstelsluitbout weer vas.
- ✓ Om die vereiste bandspanning te verkry, druk (met die hand) elke kant van die band in onderskeie luierkatrolgleuwe in.

Lemvervanging

- ⚠ Die snymeganisme aan hierdie implemente draai teen 'n uiters hoë spoed. Gebrekkige instandhouding of herstelwerk kan tot brekasies lei wat ernstige skade, beserings en selfs dood kan veroorsaak.
- ⚠ Gebruik slegs oorspronklike Falcon-onderdele met die korrekte spesifikasie en graad vir die installering van die snymeganisme. Hoëspoedbrekasie van draaiende onderdele kan ernstige skade, beserings of dood veroorsaak.

Lemme moet vervang word as hulle beskadig word, of buig of breek, of as hulle weens slytasie meer as 20% ligter geword het.

- ✓ Vervang ALLE monteringsonderdele by die aanbring van nuwe lemme. Dit sluit lemboute en -moere in.
- ✓ Gaan lemmonteringsgate (Fig. 8-A) na vir tekens van slytasie, rekking of breuke. Indien enige defek opgemerk word, moet NIE probeer om dit herstel nie, maar vervang die defekte skyf onmiddellik.

- ✓ Gaan die lemskyf na vir verwringing voordat nuwe lemme aangebring word. Laat die implement sonder die lemme teen 'n lae spoed loop en kyk of daar enige sigbare waggeling (sowel radiaal as vertikaal) by die omtrek van die skyf is. In die geval van enige waargenome defek, moet dit NIE probeer herstel nie, maar vervang die defekte skyf onmiddellik.
- ✓ Na enige instandhoudingswerk of vervanging van snymeganismekomponente, kry die implement op

speed and conduct visual checks for excessive vibration.

bedryfspoed en kyk om seker te maak dat daar geen oormatige vibrasie is nie.

- Causes of excessive vibration must be identified and eliminated immediately to prevent consequential structural or mechanical failure not covered under warranty.

- Oorsake van oormatige vibrasie moet vasgestel en onmiddellik uitgeskakel word om gevolglike strukturele of meganiese skade wat nie deur die waarborg gedek word nie, te verhoed.

Table / Tabel 1

Bolt Torque Specifications (N.m) / Boutwringkragpesifikasies (N.m)

Class/Klas	4.6		8.8		10.9		12.9	
Lubrication/ Smering	Wet/Nat	Dry/Droog	Wet/Nat	Dry/Droog	Wet/Nat	Dry/Droog	Wet/Nat	Dry/Droog
M6	4.8	6.0	9.0	11.0	13.0	17.0	15.0	19.0
M8	12.0	15.0	22.0	28.0	32.0	40.0	37.0	47.0
M10	23.0	29.0	43.0	55.0	63.0	80.0	75.0	95.0
M12	40.0	50.0	75.0	95.0	110.0	140.0	130.0	165.0
M14	63.0	80.0	120.0	150.0	175.0	225.0	205.0	260.0
M16	100.0	125.0	190.0	240.0	275.0	350.0	320.0	400.0
M18	135.0	175.0	260.0	330.0	375.0	475.0	440.0	560.0
M20	190.0	240.0	375.0	475.0	530.0	675.0	625.0	800.0
M22	260.0	330.0	510.0	650.0	725.0	925.0	850.0	1075.0
M24	330.0	425.0	650.0	825.0	925.0	1150.0	1075.0	1350.0
M27	490.0	625.0	950.0	1200.0	1350.0	1700.0	1600.0	2000.0
M30	675.0	850.0	1300.0	1650.0	1850.0	2300.0	2150.0	2700.0
M33	800.0	1150.0	1750.0	2200.0	2500.0	3150.0	2900.0	3700.0
M36	1150.0	1450.0	2250.0	2850.0	3200.0	4050.0	3750.0	4750.0

Table / Tabel 2

Lubrication Requirements / Smeringsvereistes

Application		Type	Process	Interval	Products
Gearboxes	Bevel gearboxes	Oiled	Replace	12M	Gear oil, Fuchs, Renep1000
			Check	1D	
	Splitter gearboxes	Oiled	Replace	12M	
			Check	1D	
PTO drive shafts	UV-joints	Greased	Refresh	10H	Grease, Universal, Moly #2
	CV-joints	Greased	Refresh	10H	
	Telescopic tubes	Greased	Refresh	20H	
Auxiliary drives	Intermediate shafts	Greased	Refresh	10H	Grease, Fuchs, HT Lithium M2
	Spindles	Greased	Replace	12M	
			Refresh	10H	
	Bearing housings	Greased	Replace	3M	
			Refresh	10H	
	Bearing units	Greased	Refresh	20H	Grease, Universal, Moly #2
Wheels	Wheel bearings	Greased	Refresh	1W	
Pivot points	Pins and bushes	Greased	Refresh	10H	Machine oil, Universal
		Oiled	Refresh	10H	
	Ball joints	Greased	Refresh	10H	Grease, Universal, Moly #2
		Oiled	Refresh	10H	Machine oil, Universal
Adjusters / Levers	Threaded rods / Leadscrews	Greased	Refresh	20H	Grease, Universal, Moly #2
		Oiled	Refresh	20H	Machine oil, Universal

TROUBLESHOOTING

FOUTOPSPORING

General troubleshooting

The table below (Troubleshooting Guide - ENG) offers guidance in remedying commonly encountered problems. If a remedy is not possible, further assistance should be sought from an authorised Falcon dealer.

Algemene foutopsporing

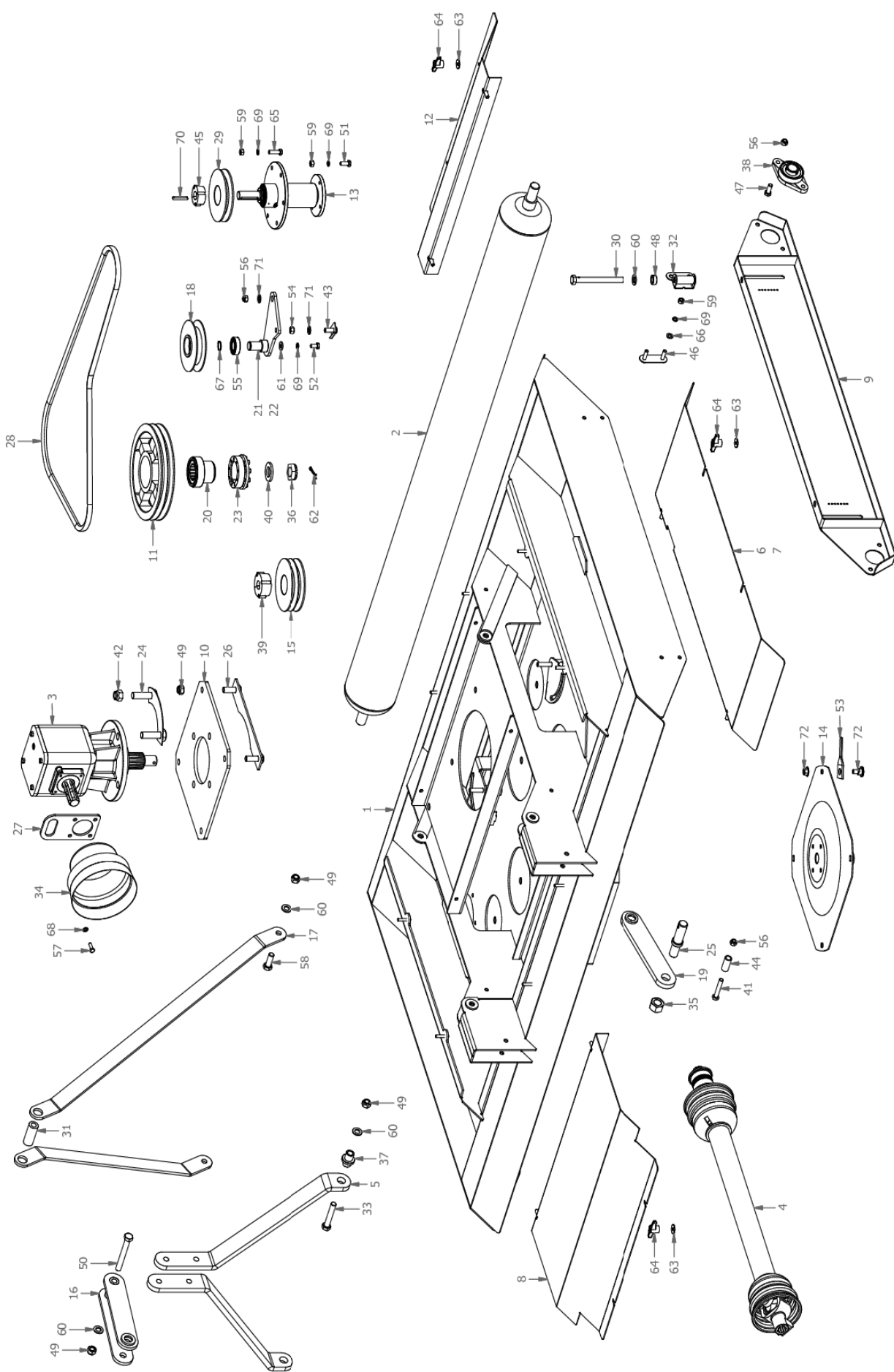
Die tafel onder (Foutopsporingsgids - AFR) bied riglyne vir die oplos van probleme wat algemeen voorkom. As 'n fout nie reggestel kan word nie, moet verdere hulp van 'n gemagtigde Falcon-handelaar bekom word.

Troubleshooting Guide – ENG		
Observation	Probable cause	Available remedy
Uneven cut	Implement not level Worn, damaged or bent blades	Adjust operating height Sharpen/replace blades
Poor material distribution	Material build-up under deck Implement not level Worn blades Wet/damp material	Clean Adjust operating heights Sharpen/replace blades Await suitable conditions
Mechanical noise	Loose components Low gearbox oil level	Check all fasteners for tightness Check and adjust oil levels
Rapid blade wear	Blade contact with ground Incorrect PTO speed Incorrect forward speed	Adjust operating height Maintain specified PTO speed Adjust forward speed
Poor cut quality	Excessive forward speed Defective belt tension Worn blades	Adjust forward speed Maintain/adjust as necessary Sharpen/replace blades
Excessive vibration	Damaged/worn cutting gear Damaged/worn PTO driveshaft	Replace damaged/worn parts Replace damaged/worn parts

Foutopsporingsgids - AFR		
Waarneming	Waarskynlike oorsaak	Beskikbare regstelling
Oneweredige snit	Implement nie gelyk nie Geslyte, beskadigde of gebuigde lemme	Verstel snyhoogte Slyp/vervang lemme
Swak materiaalverspreiding	Materiaal-opbou onder dek Implement nie gelyk nie Geslyte lemme Nat/klam materiaal	Maak skoon Verstel werkshoogtes Slyp/vervang lemme Wag vir geskikte toestande
Meganiese geraas	Los komponente Ratkasolievlak laag	Maak seker alle boute ens. is vas Maak seker olievlakke is reg
Vinnige lemslytasie	Lemkontak met grond Verkeerde kragtafkeras-spoed Verkeerde vorentoe-spoed	Verstel snyhoogte Hou by korrekte kragtafkeras-spoed Verstel vorentoe-spoed
Swak snitgehalte	Te hoë vorentoe-spoed Defekte -dryfbandspanning Geslyte lemme	Verstel vorentoe-spoed Herstel/verstel soos nodig Slyp/vervang lemme
Uitermatige vibrasie	Beskadigde/geslyte snymeganisme Beskadigde kragtafkeras	Vervang beskadigde/geslyte onderdele Vervang beskadigde/geslyte onderdele

Blank page / Leë bladsy

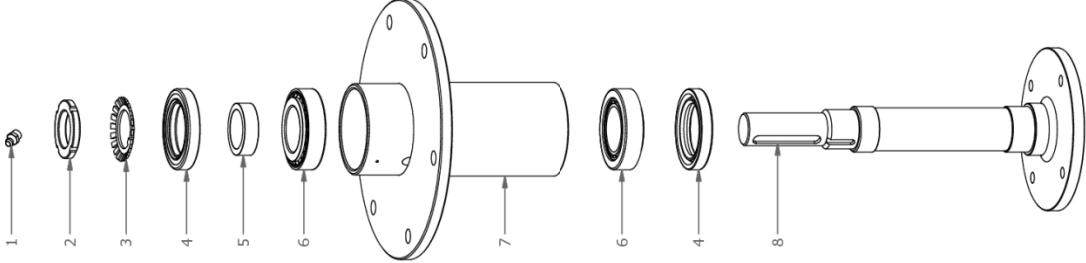
**F210 TurfPro Finishing Mower
A0100-F210**



F210 TurfPro Finishing Mower
A0100-F210

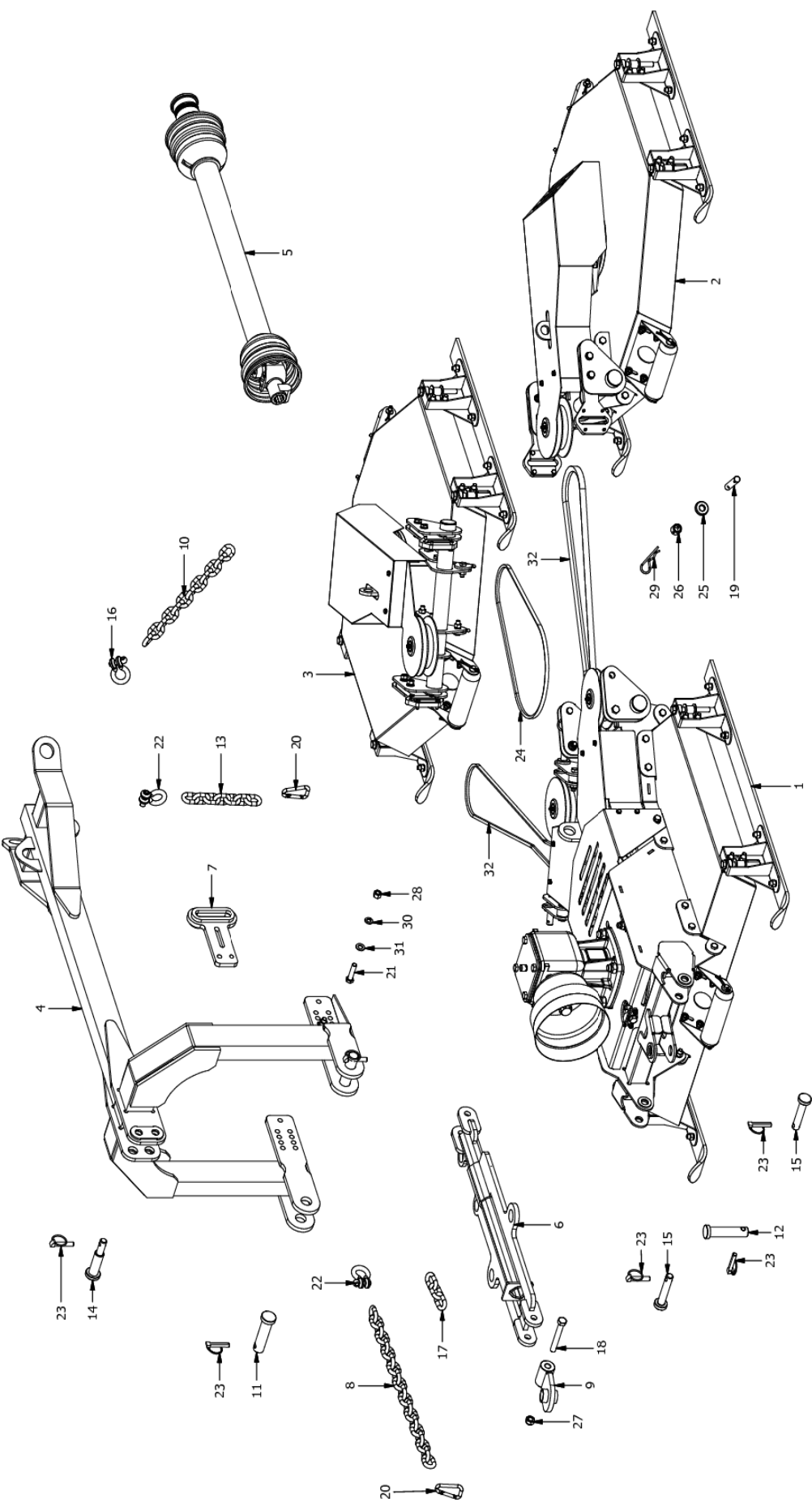
Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	H9700	Deck Painted	1	41	M41270	Bolt M12x70HT	2
2	H9701	Roller D165x2100	2	42	M61919	Nut Nyloc 3/4UNF	4
3	M1203	Gearbox F40	1	43	H9715	Bolt tensioner Captured M12	2
4	T400910CE112R12	PTO shaft B4 1.2m + O/R clutch F3	1	44	R6103-0014	12.5x20x46BMS	2
5	H9712	Top mast	1	45	M9780	Taper-lock bush 1610-25	2
6	H9703	Cover Left	1	46	H9713	Retainer 2-M10x35	4
7	H9704	Cover Right	1	47	M41230	Bolt M12x30HT	8
8	H9706	Cover Front	1	48	H9711	Collar	4
9	H9702	Side panel	2	49	M61616	Nut Nyloc M16	10
10	M9734	Base plate	1	50	M416130	Bolt M16x130HT	2
11	M9770	Pulley SPB 280-2V-3020T/L	1	51	M41025	Bolt M10x25HT	12
12	H9705	Cover Rear	1	52	M41020	Bolt M10x20HT	2
13	H9725	Spindle assy	3	53	M8527	Blade 4.3x45x122.5-18.2 Kuhn	12
14	H5159	Disk 4-M12 PCD516	3	54	M31209	Nut M12	2
15	M9769	Pulley SPB 150-2V-2517T/L	1	55	M5234	Bearing 6205-2RS	4
16	H9708	Link Hitch Upper	1	56	M61209	Nut Nyloc M12	12
17	H9714	Hitch stay	2	57	M40825	Bolt M8x25HT	4
18	RS116	Idler pulley	2	58	M41645	Bolt M16x45HT	2
19	H9707	Link Hitch Lower	2	59	M31007	Nut M10	38
20	H9768	Q Hub	1	60	M81602	Washer Flat M16x40x2	10
21	H9763	Idler brkt Left	1	61	M8575	Washer 10x25x3	2
22	H9764	Idler brkt Right	1	62	M1416	Split pin B5x60	1
23	M9771	Locking element FLK133-65x95	1	63	M82502	Washer M8x28x2	8
24	H1206	Ganged bolts 3/4UNFx2-1/2	2	64	P915115	Thumb nut M8	8
25	H0642	Pin Btm link Cat2-1.0UNF	2	65	M41035	Bolt M10x35HT	18
26	H9723	Bolt set M16x45-2	2	66	M81002	Washer Flat M10	8
27	M0626	Lifting bracket	1	67	M5242	Circlip External EXT0250	2
28	M9774	Belt SPB 2300	2	68	M80803	Washer Flat M8	4
29	RS061	Pulley SPB 150-1V-251T/L	2	69	M91002	Washer Spring M10	40
30	H9710	Leadscrew M16x150 Adjuster	4	70	M9772	Key 6x8x24mm	3
31	H9719	Bush 16.5x30x77	1	71	M81202	Washer Flat M12	4
32	H9709	Brkt Height adjust	4	72	M51233	Blade bolt+nut M12x33-12.9 Special	24
33	M41690	Bolt M16x90HT	2	73	M3359	Decal F210 Turfpro Finishing Mower	1
34	M1141	PTO counter cone	1	74	M3175	Decal PROUD TO BE SOUTH AFRICAN	1
35	M32515	Nut 1.0UNF	2	75	M3176	Decal Brid FALCON Meduim	2
36	0.140.7102.00	Nut Slotted M30x2	1	76	M3003	Serial plate Metal FALCON	1
37	H9720	Bush Stepped 17x40x47	2	77	M3170	Decal VERY IMPORTANT BEFORE USING.....	1
38	M0451	Bearing UCFL 206	4	78	M3171	Decal Baie Belangrik Alvorens U Die	1
39	M9773	Taper-lock bush 2012-25	1	79	M3172	Decal DANGER STAY AWAY - ROTATING.....	1
40	0.139.7101.00	Washer 31x56x6	1	80	M3194	Decal Oil filling point	3

Spindle assembly
H9725

Item		Part No.	Description	Qty
		1	Grease nipple 1/8inch	1
		2	Lock nut KM6	1
		3	Lock washer MB6A	1
		4	Seal Radial lip SM406210	2
		5	Oil seal collar	1
		6	Bearing 32007	2
		7	Housing	1
		8	Spindle shaft	1

Blank page / Leë bladsy

Rotagang
A0054



Rotagang
A0054

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	H5215	Deck assembly Front	1				
2	H5217	Deck assembly Left	1				
3	H5216	Deck assembly Right	1				
4	H5202	Carrier frame	1				
5	T400960CE112R12	PTO shaft B4 1.2m + O/R clutch F3	1				
6	RS127	Drawbar	1				
7	H5214	Adjuster	2				
8	H5245	Chain 2.0 T 9mm 45 links	2				
9	RS128A	Pivot plate Drawbar	2				
10	H5246	Chain 2.0 T 9mm 17 links	2				
11	H0643	Pin Btm link Cat2	2				
12	H0632	Pin Top link Cat2	1				
13	H5244	Chain 2.0 T 9mm 7 links	1				
14	H0633	Pin Top link Cat2/1	1				
15	H0631	Pin Top link Cat1	2				
16	M0620	Shackle 9mm	2				
17	H5247	Chain 2.0 T 9mm 3 links	1				
18	M114100	Bolt M14x100HT	2				
19	H5101	Pin 16x66 Special	4				
20	M0617	Quick-clip 10mm	5				
21	M41250	Bolt M12x50HT	6				
22	M0622	Shackle 7/16in 1.5T	7				
23	FLP11	Lynchpin 11mm	6				
24	M3837	Belt 1260x17	2				
25	M5102	Washer 16x36x7.0 Special Supamide	4				
26	H5150	Collar	4				
27	M61409	Nut Nyloc M14	2				
28	M31209	Nut M12	6				
29	M5235	R-clip 4mm	4				
30	M91213	Washer Spring M12	6				
31	M81202	Washer Flat M12	6				
32	RS032	Belt 2530x17	2				
33	M3176	Decal Brid FALCON Meduim	1				
34	M3003	Serial plate Metal FALCON	1				
35	M3170	Decal VERY IMPORTANT BEFORE USING.....	1				
36	M3171	Decal Baie Belangrik Alvorens U Die	1				
37	M1398	Decal Rotagang	1				
38	M3172	Decal DANGER STAY AWAY - ROTATING.....	1				
39	M3175	Decal PROUD TO BE SOUTH AFRICAN	1				
40	M3354	Decal No reverse 100mm	1				

This diagram illustrates the assembly of a mechanical component, likely a pump or motor housing, through ten sequential steps. The parts are numbered 1 through 70, and the steps are numbered 1 through 10.

- Part 1:** The main housing or base plate.
- Part 2:** A mounting bracket or flange.
- Part 3:** A small circular component, possibly a seal or gasket.
- Part 4:** A large circular component, likely a pump head or impeller.
- Part 5:** A long, thin component, possibly a shaft or a long bolt.
- Part 6:** A small circular component, possibly a seal or gasket.
- Part 7:** A mounting bracket or flange.
- Part 8:** A long, thin component, possibly a shaft or a long bolt.
- Part 9:** A small circular component, possibly a seal or gasket.
- Part 10:** A small circular component, possibly a seal or gasket.
- Part 11:** A mounting bracket or flange.
- Part 12:** A large circular component, likely a pump head or impeller.
- Part 13:** A small circular component, possibly a seal or gasket.
- Part 14:** A small circular component, possibly a seal or gasket.
- Part 15:** A small circular component, possibly a seal or gasket.
- Part 16:** A small circular component, possibly a seal or gasket.
- Part 17:** A small circular component, possibly a seal or gasket.
- Part 18:** A small circular component, possibly a seal or gasket.
- Part 19:** A small circular component, possibly a seal or gasket.
- Part 20:** A small circular component, possibly a seal or gasket.
- Part 21:** A small circular component, possibly a seal or gasket.
- Part 22:** A small circular component, possibly a seal or gasket.
- Part 23:** A small circular component, possibly a seal or gasket.
- Part 24:** A small circular component, possibly a seal or gasket.
- Part 25:** A small circular component, possibly a seal or gasket.
- Part 26:** A small circular component, possibly a seal or gasket.
- Part 27:** A small circular component, possibly a seal or gasket.
- Part 28:** A small circular component, possibly a seal or gasket.
- Part 29:** A small circular component, possibly a seal or gasket.
- Part 30:** A small circular component, possibly a seal or gasket.
- Part 31:** A small circular component, possibly a seal or gasket.
- Part 32:** A small circular component, possibly a seal or gasket.
- Part 33:** A small circular component, possibly a seal or gasket.
- Part 34:** A small circular component, possibly a seal or gasket.
- Part 35:** A small circular component, possibly a seal or gasket.
- Part 36:** A small circular component, possibly a seal or gasket.
- Part 37:** A small circular component, possibly a seal or gasket.
- Part 38:** A small circular component, possibly a seal or gasket.
- Part 39:** A small circular component, possibly a seal or gasket.
- Part 40:** A small circular component, possibly a seal or gasket.
- Part 41:** A small circular component, possibly a seal or gasket.
- Part 42:** A small circular component, possibly a seal or gasket.
- Part 43:** A small circular component, possibly a seal or gasket.
- Part 44:** A small circular component, possibly a seal or gasket.
- Part 45:** A small circular component, possibly a seal or gasket.
- Part 46:** A small circular component, possibly a seal or gasket.
- Part 47:** A small circular component, possibly a seal or gasket.
- Part 48:** A small circular component, possibly a seal or gasket.
- Part 49:** A small circular component, possibly a seal or gasket.
- Part 50:** A small circular component, possibly a seal or gasket.
- Part 51:** A small circular component, possibly a seal or gasket.
- Part 52:** A small circular component, possibly a seal or gasket.
- Part 53:** A small circular component, possibly a seal or gasket.
- Part 54:** A small circular component, possibly a seal or gasket.
- Part 55:** A small circular component, possibly a seal or gasket.
- Part 56:** A small circular component, possibly a seal or gasket.
- Part 57:** A small circular component, possibly a seal or gasket.
- Part 58:** A small circular component, possibly a seal or gasket.
- Part 59:** A small circular component, possibly a seal or gasket.
- Part 60:** A small circular component, possibly a seal or gasket.
- Part 61:** A small circular component, possibly a seal or gasket.
- Part 62:** A small circular component, possibly a seal or gasket.
- Part 63:** A small circular component, possibly a seal or gasket.
- Part 64:** A small circular component, possibly a seal or gasket.
- Part 65:** A small circular component, possibly a seal or gasket.
- Part 66:** A small circular component, possibly a seal or gasket.
- Part 67:** A small circular component, possibly a seal or gasket.
- Part 68:** A small circular component, possibly a seal or gasket.
- Part 69:** A small circular component, possibly a seal or gasket.
- Part 70:** A small circular component, possibly a seal or gasket.

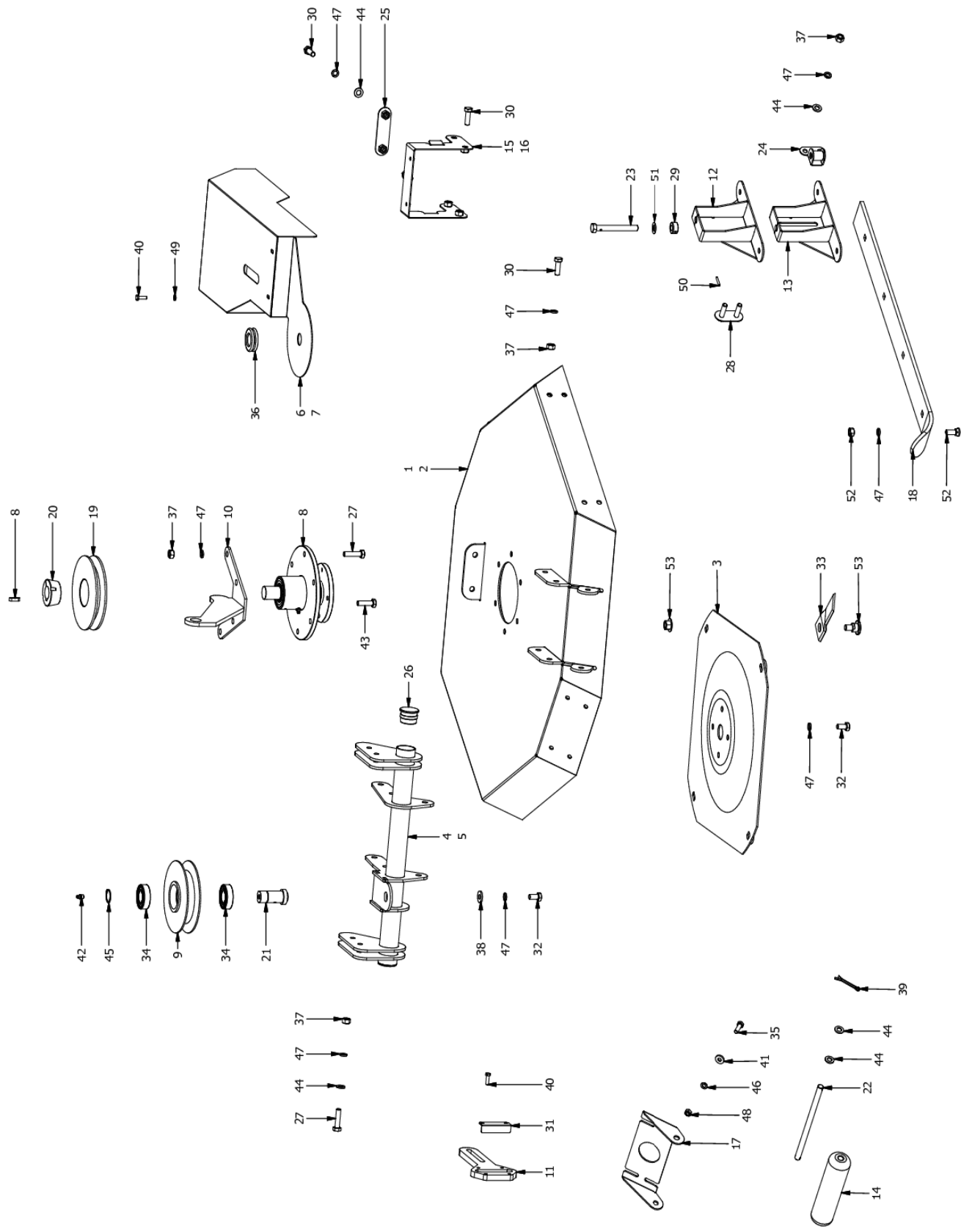
The assembly steps are as follows:

- Step 1: Assembly of the main housing (1) with mounting brackets (2) and seals (3).
- Step 2: Assembly of the pump head (4) with the main housing (1) and seals (3).
- Step 3: Assembly of the shaft (5) with the pump head (4) and seals (3).
- Step 4: Assembly of the impeller (6) with the shaft (5) and seals (3).
- Step 5: Assembly of the mounting bracket (7) with the main housing (1) and seals (3).
- Step 6: Assembly of the long bolt (8) with the main housing (1) and seals (3).
- Step 7: Assembly of the seal (9) with the main housing (1) and seals (3).
- Step 8: Assembly of the seal (10) with the main housing (1) and seals (3).
- Step 9: Assembly of the seal (11) with the main housing (1) and seals (3).
- Step 10: Final assembly of the pump/motor housing with all components.

Deck assembly Front
H5215

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	H5106	Deck Front	1	41	H5195	Retainer 2-M10	2
2	H5110	Gearbox pedestal	1	42	M41025	Bolt M10x25HT	4
3	M1100	Gearbox F25	1	43	M41020	Bolt M10x20HT	2
4	R5064	Pulley SPB 150-4V-2517T/L	1	44	M8527	Blade 4.3x45x122.5-18.2 Kuhn	4
5	H5123	Pivot bracket Front Left	1	45	M5234	Bearing 6205-2RS	4
6	H5159	Disk 4-M12 PCD516	1	46	M61209	Nut Nyloc M12	6
7	H5127	Pivot bracket Front Right	1	47	M40825	Bolt M8x25HT	10
8	H5105	Skid runner Front	2	48	M5233	Grommet 25mm	2
9	H5170	Spindle assembly Long	1	49	M31007	Nut M10	30
10	RS116	Idler pulley	2	50	M40815	Bolt M8x16HT	4
11	H5157	Baseplate Belt tensioner	1	51	M8575	Washer 10x25x3	2
12	RS003	Pulley SPB 280-3V-3020T/L	1	52	M1399	Split pin B4x60	4
13	M5230	Taperlock bush 3020-60	1	53	M40620	Bolt M6x20HT	10
14	M5183	Guard Front Main	1	54	H5368	Key 8.8x18x40mm	1
15	H5185	Guard Front Right	1	55	M8576	Washer M8x20x3	12
16	M5184	Guard Front Left	1	56	M10039	Grease nipple 1/8inch	2
17	H5176	Lifting bracket	1	57	M41035	Bolt M10x35HT	5
18	H1143	Hub F25 Special	1	58	M61616F	Nut Nyloc M16F	4
19	H5140	Skid mounting bracket	2	59	LF1786700161	Plug Breather 1/4 BSP	1
20	H5144	Skid mounting bracket	2	60	M30607	Nut M6HT	2
21	H5181	Anti-scalping roller	2	61	M81002	Washer Flat M10	13
22	M5172	Spacer	1	62	M5242	Circlip External EXT0250	2
23	H5228	Guard bracket LH	1	63	M80803	Washer Flat M8	2
24	H5227	Guard bracket RH	1	64	M90813	Washer Spring M8	8
25	M5180	Brkt Anti-scalping roller	2	65	M91002	Washer Spring M10	44
26	M5231	Taperlock bush 2517-28	1	66	M31008	Nut M8	8
27	H5162	Stub shaft Idler pulley	2	67	M5229	Washer Flat M6	10
28	H5182	Axle Anti-scalping roller	2	68	M5243	Roll pin 4x25	4
29	M1141	PTO counter cone Comer	1	69	M81202	Washer Flat M12	19
30	M112100	Set screw M12x100HT	1	70	M21030	Plough bolt+nut M10x30HT	16
31	H5155	Leadscrew M12x100 Adjuster	4	71	M51233	Blade bolt+nut M12x33-12.9 Special	8
32	H5148	Bush 12.5x30x20	4				
33	H5152	Anchor plate Adjuster M12	4				
34	M41250	Bolt M12x50HT	4				
35	H5151	End cap	4				
36	M5161	Profile 5.0 MS PLB0	1				
37	M41040	Bolt M10x40HT	1				
38	H5218	Retainer 2-M10x35	4				
39	H5156	Collar	4				
40	M41030	Bolt M10x30HT	24				

Deck assembly Left + Right H5216 + H5217



Deck assembly Left + Right
H5216 + H5217

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	H5117	Deck Right	1	41	M8576	Washer M8x20x3	8
2	H5120	Deck Left	1	42	M10039	Grease nipple 1/8inch	1
3	H5159	Disk 4-M12 PCD516	1	43	M41035	Bolt M10x35HT	2
4	H5137	Pivot mount Right	1	44	M81002	Washer Flat M10	26
5	H5133	Pivot mount Left	1	45	M5242	Circlip External EXT0250	1
6	H5189	Guard Rear Right	1	46	M90813	Washer Spring M8	8
7	M5188	Gaurd Rear Left	1	47	M91002	Washer Spring M10	35
8	H5163	Spindle assembly Short	1	48	M31008	Nut M8	8
9	RS116	Idler pulley	1	49	M5229	Washer Flat M6	2
10	H5173	Lifting lug rear	1	50	M5243	Roll pin 4x25	4
11	H5149	Pivot adjuster	2	51	M81202	Washer Flat M12	4
12	H5140	Skid mounting bracket	2	52	M21030	Plough bolt+nut M10x30HT	16
13	H5144	Skid mounting bracket	2	53	M51233	Blade bolt+nut M12x33-12.9 Special	8
14	H5181	Anti-scalping roller	2				
15	H5227	Guard bracket RH	1				
16	H5228	Guard bracket LH	1				
17	M5180	Bracket Anti-scalping roller	2				
18	H5104	Skid runner Rear	2				
19	RS061	Pulley SPB 150-1V-251T/L	1				
20	M5232	Taperlock bush 1610-28	1				
21	H5162	Stub shaft Idler pulley	1				
22	H5182	Axle Anti-scalping roller	2				
23	H5155	Leadscrew M12x100 Adjuster	4				
24	H5152	Anchor plate Adjuster M12	4				
25	H5197	Retainer 2-M10	1				
26	H5151	End cap	2				
27	M41040	Bolt M10x40HT	8				
28	H5218	Retainer 2-M10x35	4				
29	H5156	Collar	4				
30	M41030	Bolt M10x30HT	8				
31	M5103	Profile 1.2 SS PLB1	4				
32	M41020	Bolt M10x20HT	5				
33	M8527	Blade 4.3x45x122.5-18.2 Kuhn	4				
34	M5234	Bearing 6205-2RS	2				
35	M40825	Bolt M8x25HT	8				
36	M5233	Grommet 25mm	1				
37	M31007	Nut M10	20				
38	M8575	Washer 10x25x3	1				
39	M1399	Split pin B4x60	4				
40	M40620	Bolt M6x20HT	10				

Spindle assembly Short + Long
H5163_H5170

Item	Part No.	Description	Qty
1	H5166	Spindle shaft Short	1
2	H5171	Spindle shaft Long	1
3	H5220	Spindle housing	1
4	M5225	Seal Radial lip 30x62x10	1
5	M5224	Bearing 6206	2
6	M5222	Circlip Internal INT0600	1
7	M5226	Seal Radial lip 35x62x7	1
8	H5167	Washer 30.5x42x2	1
9	M10039	Grease nipple 1/8inch	1
10	M5223	Load washer Wave type EPL46	2
11	M5221	Circlip External EXT0300	1
12	H5377	Key 6x8x24mm	1

A/R = As required

[illegible]

[illegible]

FALCON AGRICULTURAL EQUIPMENT (EDMS) BPK

Reg Nr. 2006/012163/07

15 Mopanestraat, Merrivale, 3291, KwaZulu-Natal, Suid Afrika

Posbus 170, Howick, 3290, KwaZulu-Natal, Suid Afrika

Tel: +27 (0) 33 330 4764

Verkope: +27 (0) 33 330 5787

info@falconequipment.co.za

www.falconequipment.co.za

FALCON AGRICULTURAL EQUIPMENT (PTY) LTD

Reg No. 2006/012163/07

15 Mopane Road, Merrivale, 3291, KwaZulu-Natal, South Africa

P.O. Box 170, Howick, 3290, KwaZulu-Natal, South Africa

Tel: +27 (0) 33 330 4764

Sales: +27 (0) 33 330 5787

info@falconequipment.co.za

www.falconequipment.co.za

