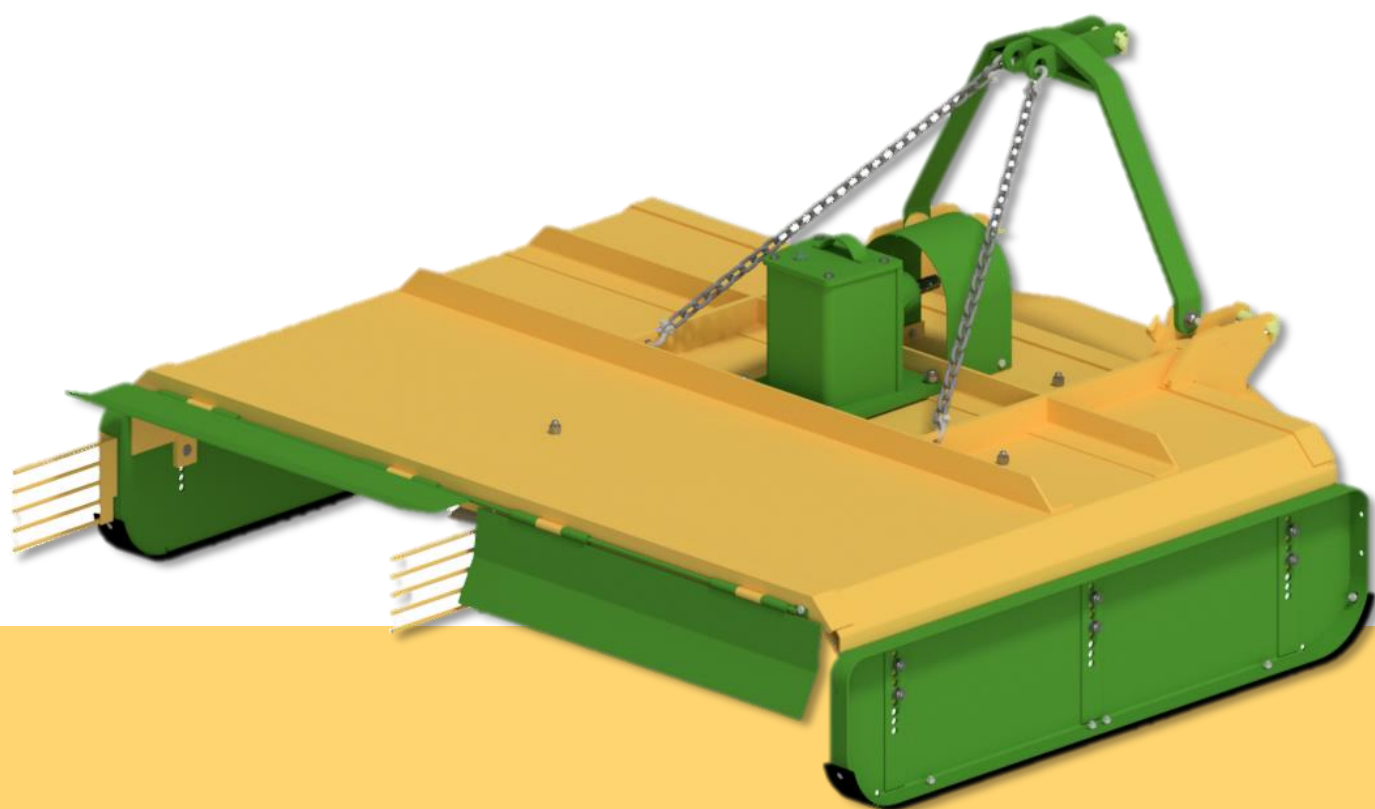




OPERATORS MANUAL / OPERATEURSHANDLEIDING

Haymakers® / Hooimakers®



FOREWORD



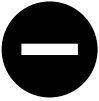
We at Falcon commend and congratulate you on the purchase of your Falcon implement, which we consider to be the best of its type available.

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

MAATSKAPPYPROFIEL

Falcon Agricultural Equipment (Pty) Ltd is 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.

Our primary market is the agricultural sector, with niche efforts into the industrial and turf implement markets. We distribute our products through a network of over 250 authorised dealers and approximately 110 dedicated mechanisation dealers countrywide. We also distribute our products across our borders into other African countries such as Botswana, Kenya, Malawi, Mozambique, Namibia, Uganda, Swaziland, Tanzania, Zambia, and Zimbabwe.

We manufacture the Falcon range of implements, and our ongoing program 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 implements. 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!

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).

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.

Falcon Agricultural Equipment (Edms.) Bpk. is 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.

Ons hoofmark is die landbousektor, met nisverkope in die nywerheids- en grasbaanimplement-markte. Ons versprei ons produkte deur 'n netwerk van meer as 250 gemagtigde handelaars met ongeveer 110 toegewyde meganisasiehandelaars landswyd. Ons versprei ook ons produkte oor ons grense na ander Afrikalande soos Botswana, Kenia, Malawi, Mosambiek, Namibië, Uganda, Swaziland, Tanzanië, Zambië, en Zimbabwe.

Ons vervaardig die Falcon-implementreeks 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, kapploë en vleëlimplemente 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!

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).

Falcon Agricultural Equipment (Edms.) Bpk. is verbonde tot die ondersteuning van ons plaaslike gemeenskappe op baie verskillende maniere. Ons hooffokus 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 verwaarlosing onderwerp nie.
- Die Eienaar is in besit van hierdie handleiding en kan 'n begrip en toepassing van die bepalings daarvan demonstree.
- 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 vervangingsonderdele 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	
				F80	3y	
			PTO shafts	Imported	All	1y
		OEM parts	Falcon	All	2y	
	Dual-spindle Slashers Dual-spindle Haymakers® Flexwing Grassmulchers™ Fieldmulchers™ SD Mulchers Rotagang®	Gearboxes	Imported	All	1y	
				Falcon	F50	2y
			F60		1y	
			F80		2y	
			PTO shafts	Imported	All	1y
			OEM parts	Falcon	All	1y
	Flail implements	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		
Bale Grab	OEM parts	Falcon	All	1y		
Amazone	Spreaders Sprayers Soil Tillage Turf equipment	All	Amazone	All	1y	

PRODUCT RANGE

The Falcon range of Haymakers® is intended for the harvesting of tall grasses and other fodder crops. They have the unique ability to produce a controlled linear swath (or windrow) behind the implement which is suitable for secondary processes such as raking, tedding and baling.

- Available in a range of sizes with working widths from 1,2 to 2,0 m, suitable for tractors from 42 to 80 kW.
- Haymakers® have increased underdeck clearance, so gearboxes are fitted with extended output shafts which allow for longer material cut lengths to be achieved.
- All models are fitted with an underdeck scroll system to limit over-processing and damage to cut material. The scroll system reduces the likelihood of cut material being drawn back into the blade path and provides controlled deposit of the characteristic windrow.

Two basic implement configurations are available.

- “V” series: With centrally located cutting gear and an underdeck scroll system to control windrow production. They have added versatility, in that they may be used as conventional rotary cutters (or slashers) simply by removing this bolt-on scroll system.
- “EV” series: Specialised Haymakers® with an offset cutting gear position and scroll system which, in combination, provide a dedicated windrow discharge “tunnel”.

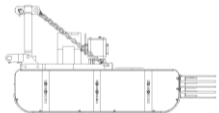
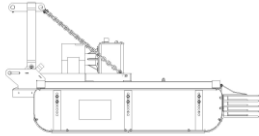


PRODUKREKS

Die Falcon Hooimaker®-reeks is ontwerp vir die oes van lang gras en ander voergewasse. Hulle besit die unieke vermoë om ’n beheerde reguit windstrook (windry) agter die implement te skep wat geskik is vir sekondêre prosesse soos hark, oopsprei en baling.

- Beskikbaar in ’n verskeidenheid groottes met werkswydtes van 1,2 tot 2,0 m, geskik vir trekkers van 42 tot 80 kW.
- Hooimakers® het ’n groter onderdekvryhoogte, dus is ratkaste toegerus met verlengde afvoerasse wat langer materiaalsnitlengtes moontlik maak.
- Alle modelle beskik oor ’n onderdek-krulstelsel om oorverwerking en beskadiging van gesnyde materiaal te verhoed. Die krulstelsel verminder die kans dat gesnyde materiaal teruggetrek sal word in die pad van die lemme en bied beheerde neerlê van die kenmerkende windry.

Twee basiese implementkonfigurasies is beskikbaar.

- “V”-reeks: Met sentraalgeplaaste snymeganisme en ’n onderdek-krulstelsel om windryproduksie te beheer. Hulle is meer veelsydig, omdat hulle as konvensionele wentelsnyers (of bossiekappers) gebruik kan word eenvoudig deur hierdie aanboukrulstelsel af te haal.
- “EV”-reeks: Gespesialiseerde Hooimakers® met ’n eksentriese snymeganisemeposisie en krulstelsel wat in kombinasie ’n toegewyde windry-afvoer-“tonnel” bied.

Profile	Model (Part no.)	Blades/ Spindles (qty)	Working width (mm)	W x L (mm)		Mass (kg)	Power, max. (kW)
	F40-120V (A0049)	4 (x1)	1 200	1 440	1 490	345	35–50
	F80-150V (A0032) F80-150EV (A0033)	2 (x1)	1 500	1 775 2 050	1 805 1 935	513 557	45–80
	F80-180V (A0035) F80-180EV (A0036)	2 (x1)	1 800	2 260 2 355	1 920 1 920	553 610	45–80
	F80-200V (A0040) F80-200VH (A0083)	2 (x1)	2 000	2 255	2 290	656 656	45–80
Profiel	Model (Onderdeelnr.)	Lemme/Spille (getal)	Werkswydte (mm)	B x L (mm)		Massa (kg)	Krag, maks.(kW)

INSTALLATION

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 is removed from the ignition.
- ⚠ Use only hitch pins and linchpins of the correct specification, such as those provided with the implement.

The implement is equipped with a standard 3-point hitch for attachment to the tractor.

- ✔ Adjust the tractor 3-point hitch top link (Fig. 1-A) to provide sufficient slack in the implement topmast chains (Fig. 1-B) to allow articulation of the implement over undulating terrain.
- ✔ Lift the implement to an acceptable transportation height and operate the hitch offset facility to the extremities of its travel, ensuring 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 during transportation.
- ✔ Set the tractor hitch lift arms to a floating position to enable independent movement of the arms while cutting.

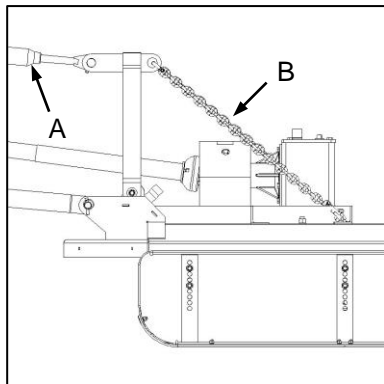


Fig. 1

Installing the PTO driveshaft

- ⚠ Ensure proper engagement between the PTO driveshaft couplings and the input and output shafts on the implement and tractor.
- ⚠ Ensure sufficient overlap of the PTO driveshaft tubes at the working position.
- ⚠ Do not exceed the specified PTO driveshaft speed.
- ⚠ Do not operate the implement without PTO driveshaft 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 driveshaft and avoid loose-fitting clothing to prevent entanglement.

INSTALLERING

Koppel van die implement aan die trekker

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

Die implement is toegerus met 'n standaard 3-punt-haak om dit aan die trekker te koppel.

- ✔ Verstel die trekker se 3-punt-boskakeel (Fig. 1-A) om voldoende speling aan die implement se topmas-kettings (Fig. 1-B) te verskaf, sodat die implement die kontoere van die grond kan volg.
- ✔ Lig die implement tot 'n aanvaarbare vervoerhoogte en beweeg die haak tot by die uiterste punte om seker te maak dat die implement aan geen deel van die trekker raak nie.
- ✔ Verstel die 3-punt-haak-stabiliseerderarms om oormatige laterale beweging van die implement tydens vervoer te voorkom.
- ✔ Stel die trekker se 3-punt-haak se hysarms om vry te kan beweeg sodat onafhanklike beweging van die arms tydens sny moontlik is.

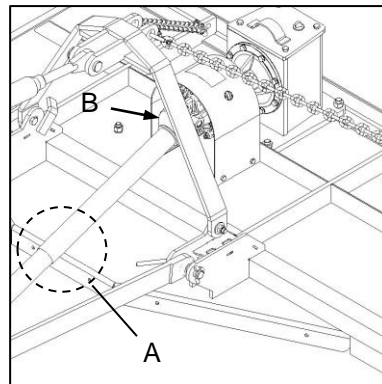


Fig. 2

Installering van die kragtakkeras

- ⚠ Verseker behoorlike inskaling tussen die kragtakkeras se koppelstukke en die inset- en leweringsasse aan die implement en trekker.
- ⚠ Verseker voldoende oorvleueling van die kragtakkeras se buise in die werksposisie.
- ⚠ Hou by die gespesifiseerde kragtakkeras-spoed.
- ⚠ Moenie die implement bedryf sonder die kragtakkeras-skerm in posisie en in goeie toestand nie. Teendraaikettings moet aangeheg wees.
- ⚠ Vervang beskadigde of ontbrekende kragtakkeras-skerm-onderdele slegs met oorspronklike onderdele.
- ⚠ Moenie na aan die draaiende kragtakkeras kom nie en vermy lospassende klere om verstrengeling te verhoed.

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

- ✔ Before cutting the PTO driveshaft to the appropriate operating length, refer to the manufacturer's instructions supplied with the PTO shaft.
- ✔ Following installation of the PTO shaft, lift the implement to an acceptable transporting height and ensure that there is no contact between the PTO driveshaft and the implement (Fig. 2-A).
- ✔ Ensure that universal joint operating angles are not exceeded and that over-compression or over-extension of the PTO driveshaft is avoided (Fig. 2-B).
- ⊖ All PTO drive shafts supplied on Falcon implements are accompanied by a product handbook (IM-03-2008) 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.

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 is 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, and without suitable additional support for the implement.

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

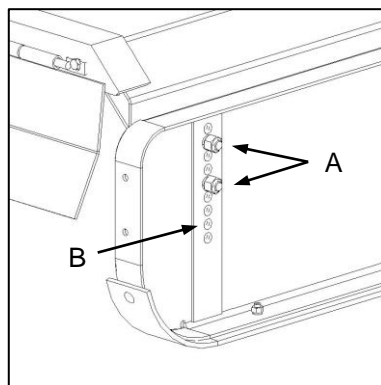


Fig. 3

- ✔ To set working height, remove the side panel retaining nuts (Fig. 3-A) and relocate the side panel position by selecting an appropriate hole position (Fig. 3-B). Ensure the implement is level by selecting similar hole positions at each adjustment point.

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

- ✔ Verwys eers na die vervaardiger se instruksies wat saam met die kragaftakkeras voorsien is voordat die as tot die gepaste lengte gesny word.
- ✔ Na installering van die kragaftakkeras moet die implement tot 'n aanvaarbare vervoerhoogte gelig word, en maak seker dat daar geen kontak tussen die kragaftakkeras en die implement is nie (Fig. 2-A).
- ✔ Verseker dat kruiskoppelingwerkshoeke nie oorskry word nie en dat geen oorkompressie of oorverlenging van die kragaftakkeras plaasvind nie (Fig. 2-B).
- ⊖ Alle kragaftakkerasse wat saam met Falcon-implemente verskaf word, word vergesel van 'n produkhandleiding (IM-03-2008) wat alle aspekte van installering, bedryf, instandhouding en veiligheid m.b.t. die kragaftakkeras beskryf. Dit vorm deel van hierdie handleiding en sal aan elke kragaftakkeras van elke nuwe Falcon-implement gevind word.

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-punt-haak hang, en sonder bykomende steun vir die implement nie.

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

- ✔ Om die werkshoogte te verstel, verwyder die sypaneel klemmoere (Fig. 3-A) en verskuif die sypaneel posisie deur die gesiklike gat posisie te kies (Fig. 3-B). Maak seker dat die implement gelyk is deur soortgelyke gat posisies by elke verstelpunt te kies.

Lubrication and oil levels

Confirm that all gearbox oil levels are correct before use of the implement.

- ✔ A dipstick (Fig. 4-A) is provided on the implement gearbox for this purpose. The oil level should fall within the area indicated on the dipstick.

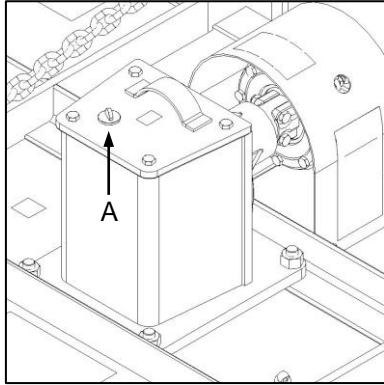


Fig. 4

Ensure that the PTO shaft is properly lubricated before use of the implement.

- ✔ Apply grease to the universal joints (Fig. 5-A) and telescopic tubes (Fig. 5-B) of the PTO shaft.
- ✔ For additional information, refer to the PTO manufacturer's handbook supplied with the implement.
- ➔ For lubrication requirements, refer to MAINTENANCE, Table 2, Lubrication requirements.

Smering en olievlakke

Verseker dat alle ratkasolievlakke korrek is voordat die implement gebruik word.

- ✔ Die ratkas het 'n peilstok (Fig. 4-A) vir hierdie doel. Die olievak moet binne die perke val wat op die peilstok aangedui word.

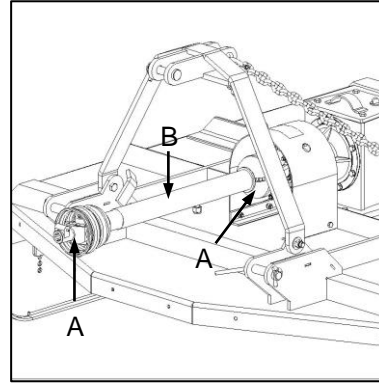


Fig. 5

Verseker dat die kragaftakkeras behoorlik gesmeer is voordat die implement gebruik word.

- ✔ Ghries die kruiskoppelings (Fig. 5-A) en teleskopiese buise (Fig. 5-B) van die kragaftakkeras.
- ✔ Verwys vir verdere inligting na die kragaftakkeras se vervaardigershandboek wat saam met die implement voorsien is.
- ➔ 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.

- ⊖ 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.
- ⊖ Refer also to operational information relevant to the tractor concerned, including handbooks, operator 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 must 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 objects which may become a projectile.
- ✔ Note the presence of ditches, 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.

When areas are designated for the routine harvesting of hay and other grasses, it is imperative that those areas be properly prepared and thoroughly cleared of obstructions. In general, this will ensure safe operating conditions and extend the service life of the implement.

Operating the implement

- ⚠ Never approach or allow any person to approach the implement unless the implement has been lowered to the ground, the tractor engine is shut off, handbrake applied and the implement cutting gear has come to a complete stop.

BEDRYF

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.

- ⊖ Toepaslike regulasies sluit in, maar is nie beperk nie 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.
- ⊖ Verwys ook na tersaaklike bedryfsinligting oor die betrokke trekker, insluitend handboeke, operateurs-handleidings, en veiligheid- en waarskuwingskennisgewings en -plakkers.

Vorbereiding 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 elders in 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.

Wanneer gebiede vir die roetine-oes van hooi en ander grasse toegewys word, is dit noodsaaklik dat dié gebiede behoorlik voorberei en obstrukties verwyder word. In die algemeen sal dit veilige werkstoestand verseker en die dienslewe van die implement verleng.

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.

- ⚠ Actively discourage spectators and cease operation of the implement if any person approaches or enters the work area.
 - ⚠ Be sure to operate the implement only at the specified PTO input speed.
 - ⚠ 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.

Haymakers® are designed to harvest grass and other fodder crops which are typically baled after cutting. They are equipped with a scroll system (Fig. 1-A), fitted to the underside of the implement deck. These control the flow of cut material and limit the likelihood of re-cutting, thereby producing the characteristic long material cut lengths, while also creating a trailing swath (or windrow) of processed material suitable for raking, tedding or baling.

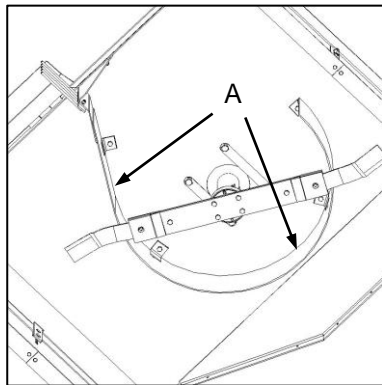


Fig. 1

- ⊖ Failure to properly prepare the areas of use (as described elsewhere in this section), will result in damages and failures to scrolls, deflectors and guides, which shall not be covered under warranty.

For added control of the resultant windrow, material guides (Fig. 2-A) are provided on either side of the material discharge tunnel.

- ✔ Ensure that the material guides are properly oriented prior to use.

Blade selection

Appropriate blade selection is key to the operator's achieving the most effective process result. Therefore, due to the large variation in material properties and operating conditions likely to be encountered, alternative blade selection should be arrived at through consultation with an authorised Falcon Dealer.

- ⚠ 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 kragaftakkerasinspoed bedryf word.
 - ⚠ Bly weg van die draaiende kragaftakkeras en verhoed verstregeling deur lospassende klere te vermy.
- ⊖ Versuim om die implement teen die neergelegde kragaftakkeraspoed te bedryf kan tot onveilige bedryfstoestande lei, asook strukturele en meganiese onklaaraking wat nie deur die waarborg gedek word nie.

Hooimakers® is ontwerp om gras en ander voergewasse te oes wat gewoonlik gebaal gaan word. Hulle beskik oor 'n krulplaatstelsel (Fig. 1-A) onder aan die implementdek wat die vloei van gesnyde materiaal beheer en die waarskynlikheid van hersny beperk. Dit lewer die kenmerkende lang snitlengtes, terwyl dit ook 'n windry van gesnyde materiaal agterlaat wat geskik is vir hark, oopsprei en baling.

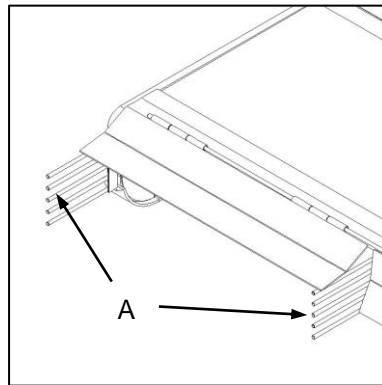


Fig. 2

- ⊖ Versuim om die gebruiksgreiede behoorlik voor te berei (soos elders in hierdie afdeling beskryf) sal tot beskadiging van die krulle, deflektors en leiplate lei wat nie deur die waarborg gedek sal word nie.

Vir bykomende beheer van die gevolglike windry is materiaalaleiers (Fig. 2-A) weerskante van die afvoertunnel aangebring.

- ✔ Verseker dat die materiaalaleiers behoorlik georiënteer is voor gebruik.

Lemseleksie

Gepaste lemseleksie is deurslaggewend vir die operateur om die mees effektiewe prosesresultate te verkry. Vanweë die groot wisseling in materiaaleienskappe en bedryfstoestande wat waarskynlik teëgekomp sal word, moet die regte lemme in oorleg met 'n gemagtigde Falcon-handelaar gekies word.

Two different blade types are available for fitment to Falcon Haymakers, each providing a specific preferred result:

1. Haymaking blades: For general cutting and mild discharge rates.
2. Blowermower™ blades: Flighted blades with the capability to lift and discharge material at higher rates.

➤ F80-200VH

All Haymaker® models are equipped with haymaking blades as standard equipment, except the F80-200VH model, which is equipped with Blowermower blades.

- ⊖ Only one blade type should be fitted to the implement at any time and NOT combinations thereof.

The cutting process

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

- ✔ Start the tractor with the implement suspended on the tractor 3-point hitch.
 - ✔ Lower the implement so that blades are just clear of the material to be cut and engage the tractor PTO at idling speed.
 - ✔ Gradually increase the tractor throttle position to achieve the specified PTO operating speed.
 - ✔ Set the throttle to provide the specified PTO input speed and lower the implement to the working position.
 - ✔ Engage a low gear in the tractor and begin cutting.
- ⊖ Unless otherwise indicated, the specified implement PTO input speed should be 540 r/min.
 - ⊖ On tractors with an “economy” PTO drive option (indicated as 540E on the tractor’s tachometer), refer to the tractor’s operator manual in selecting the relevant PTO gearbox ratio on the tractor to maintain the specified implement PTO input speed.

Transportation and storage

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.

Twee verskillende lemtipes is beskikbaar, waarvan elk ’n bepaalde voorkeurreultaat lewer:

1. Hooimaaklemme: Vir algemene sny en matige afvoerkoerse.
2. Blowermower™-lemme: Gevlerkte lemme wat die materiaal kan lig en teen ’n hoër tempo kan uitwerp.

➤ F80-200VH

Alle Hooimaker®-modelle is toegerus met hooimaaklemme as standaardtoerusting, behalwe die F80-200VH-model, wat met Blowermower-lemme toegerus is.

- ⊖ Slegs een lemtipe op ’n slag moet aan die implement aangebring word en NIE kombinasies daarvan nie.

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.

- ✔ Skakel die trekkerenjin aan met die implement wat aan die 3-punt-haak hang.
 - ✔ Laat die implement sak totdat die lemme net bokant die materiaal is wat gesny moet word en aktiveer die kragaftakker teen luierspoed.
 - ✔ Versnel geleidelik met die handversneller totdat die voorgeskrewe kragaftakkerinsetspoed bereik word.
 - ✔ Stel die versneller om teen die gespesifiseerde kragaftakkerinsetspoed te loop en laat sak die implement na die werkposisie.
 - ✔ Sit die trekker in ’n lae rat en begin sny.
- ⊖ Tensy anders vermeld, moet die implement se gespesifiseerde kragaftakkerinsetspoed 540 r/min wees.
 - ⊖ By trekkers met ’n “ekonomiese” kragaftakkeras-opsie (aangedui as 540E op die trekker se toereter) moet die trekkerbestuurdershandleiding geraadpleeg word vir die tersaaklike kragaftakkerinsetspoed te handhaaf.

Vervoer en berging

Die implement kan tussen werksterreine aan die trekker se 3-punt-haak vervoer 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 borsing en gevolglike skade aan monteerpunte en ander lasdraende komponente te verhoed.

MAINTENANCE

Routine maintenance

- ⚠ Do not perform maintenance or any other work on the implement unless the tractor engine has been shut off, the 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 put to use. Extra care and attention should be given to implements which may have been unused for prolonged periods (longer than 1 month).

- ✔ Check all fasteners for tightness. This includes special attention to safety-critical fasteners such as blade bolts and nuts (Fig. 1-A / 2-A), cutting gear mounting bolts (Fig. 1-B / 2-B), gearbox mounting bolts (Fig. 3-A), topmast mounting and pivot bolts (Fig. 4-A) and side panel retaining bolts (Fig. 4-B).
- ✔ Inspect blades for indications of wear and sharpen or replace as necessary. Where sharpening is carried out, ensure that blades are of similar shape and mass to prevent imbalance.
- ✔ Ensure that all guards, shields and other safety devices are in place, properly secured and in good condition.

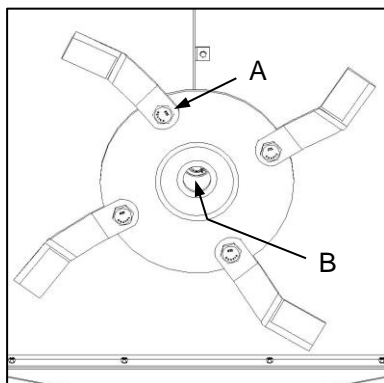


Fig. 1 (F40-120V)

INSTANDHOUDING

Roetine-instandhouding

- ⚠ Moenie instandhouding- of enige ander werk aan die implement doen tensy die trekkerenjin afgeskakel, die handrem opgetrek en die sleutel uit die aansitter 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-ervangingsonderdele 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 dalk vir lang tydperke (meer as 1 maand) nie gebruik is nie.

- ✔ Verseker dat alle hegstukke vas is. Dit sluit in spesiale aandag aan veiligheidskritieke hegstukke soos lem-boute en -moere (Fig. 1-A / 2-A), snyemeganismemonteerboute (Fig. 1-B / 2-B), ratkasmonteerboute (Fig. 3-A), topmasmonteer- en -spilboute (Fig. 4-A) en sypaneelmonteerboute (Fig. 4-B).
- ✔ Inspekteer lemme vir slytasie, en slyp of vervang indien nodig. Wanneer met die hand geslyp word, verseker dat die skerp-gemaakte lemme eenders lyk en dieselfde weeg om ongebalanseerde rotasie te voorkom.
- ✔ Verseker dat alle skutplate en ander veiligheids-toestelle in posisie is, behoorlik vas en in 'n goeie toestand is.

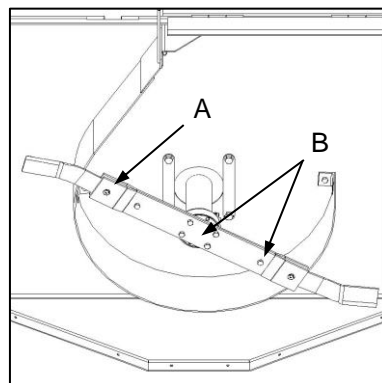


Fig. 2

- ✔ 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.

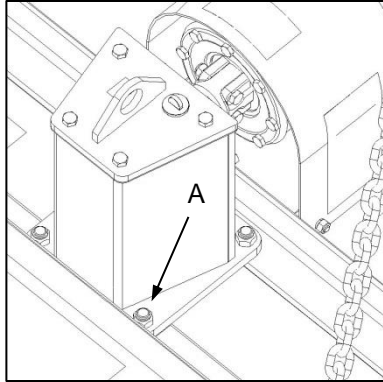


Fig. 3

- ✔ Gaan alle monterpenne, 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 werkspeed en voer visuele en gehoorinspeksies uit vir oormatige vibrasie en geraas.

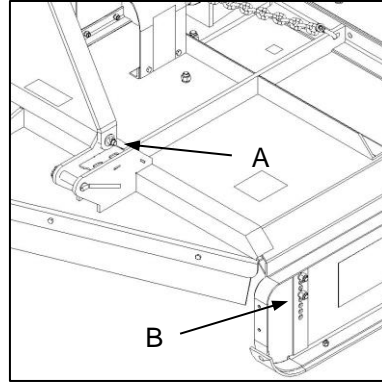


Fig. 4

- ⊖ 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 put to use, 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 before next use.
- ✔ Ensure that all safety and warning decals are in place 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.

PTO friction clutch inspection and adjustment

- ⚠ The PTO friction clutch installed on this product is a torque-limiting device. It is an integral part of the PTO driveshaft assembly and is intended to protect both the implement and tractor PTO drivelines and transmission.

- ⊖ 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 wanneer 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 kragaftakkeras-komponente.
- ✔ Inspekteer die implement deeglik vir enige beskadiging tydens gebruik. Merk dit aan vir aandag en herstel voor dit weer gebruik word.
- ✔ 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.

Kragaftakkeras-wrywingkoppelaar-inspeksie en -verstelling

- ⚠ Die kragaftakkeras-wrywingkoppelaar is 'n wringkragebeperkende toestel. Dis 'n integrale deel van die kragaftakkeras en is ontwerp om die werktuig én die trekker se kragaftakkeras-dryfstelle en -transmissie te beskerm.

- ⚠ Improper operation, maintenance or adjustment of the PTO friction clutch may result in damage not covered under warranty.
- ⚠ The instructions which follow refer only to parts fitted by Falcon as original equipment, as reflected in the parts lists provided elsewhere in this manual.

Proper operation of the PTO driveshaft friction clutch must be confirmed before to use of the implement, especially after long-term storage where corrosion and lack of use may result in binding or seizure of the friction clutch mechanism.

- ✔ Release the pre-load on the friction clutch plates by loosening the nuts (Fig. 5-A) until the compression spring is just free to rotate by hand. Do not remove the nuts completely.
- ✔ Apply power to the PTO shaft and confirm that the centre hub rotates freely within the friction plate housing.
- ✔ If the friction clutch assembly is seized it will require rebuilding. This should be carried out using only original replacement parts.

The PTO friction clutch should also be regularly inspected for the following evidence of excessive slipping – typically an indication of transmission overload.

- ✔ Evidence of smoke, burning odours or residues.
- ✔ Discolouration or blistering of painted surfaces of the friction clutch housing (Fig. 6-B).
- ✔ The friction clutch housing feels significantly hotter than the surface of the gearbox casing (Fig. 6-A).

The friction discs within the friction clutch housing should be regularly inspected for wear. Wear is determined by measuring the thickness of the friction disc.

- ⊖ All models: Friction clutch Type F2 by Comer Industries; minimum friction plate thickness = 2 mm.

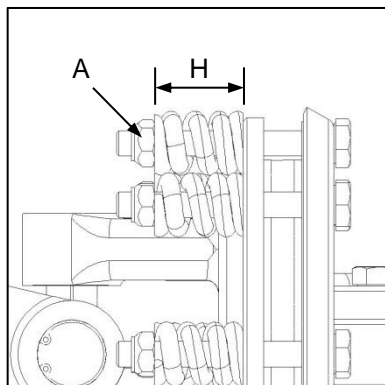


Fig. 5

- ⚠ Onbehoorlike bedryf, instandhouding of verstelling van die kragtakkeras se wrywingkoppelaar kan tot skade lei wat nie deur die waarborg gedek word nie.
- ⚠ In die instruksies wat volg, is onderdele waarna verwys word, streng oorspronklike Falcon-onderdele, soos weerspieël in die onderdeellyste wat elders in hierdie handleiding verskyn.

Behoorlike werking van die kragtakkeras-wrywingkoppelaar moet bevestig word voor gebruik van die implement, veral na langtermynberging waar roes en onbruik na binding of vasbranding van die wrywingkoppelaarmeganisme kan lei.

- ✔ Ontspan die voorlas op die wrywingkoppelaarplate deur die moere los te draai (Fig. 5-A) totdat die drukveer net vry genoeg is om met die hand te kan draai. Moet die moere nie heeltemal verwyder nie.
- ✔ Kry die kragtakkeras met krag aan die draai en bevestig dat die middelnaaf vrylik binne die wrywingplaatomhulsel draai.
- ✔ As die wrywingkoppelaarmontering vasgebrand is, sal dit herbou moet word deur slegs van oorspronklike vervangingsonderdele gebruik te maak.

Die kragtakkeras-wrywingkoppelaar moet ook gereeld vir die volgende tekens van oormatige gly nagegaan word – tipies 'n teken van transmissie-ooreising.

- ✔ Tekens van rook, brandreuke of oorblyfsels.
- ✔ Verkleuring of blaasvorming van geverfde oppervlakke van die wrywingkoppelaaromhulsel (Fig. 6-B).
- ✔ Die wrywingkoppelaaromhulsel voel beduidend warmer as die ratkasomhulsel (Fig. 6-A).

Die wrywingskywe in die wrywingkoppelaaromhulsel moet gereeld nagegaan word vir slytasie, wat vasgestel word deur die dikte van die wrywingskyf te meet.

- ⊖ Alle modelle: Wrywingkoppelaar Tipe F2 deur Comer Industries; minimum-wrywingplaatdikte = 2 mm.

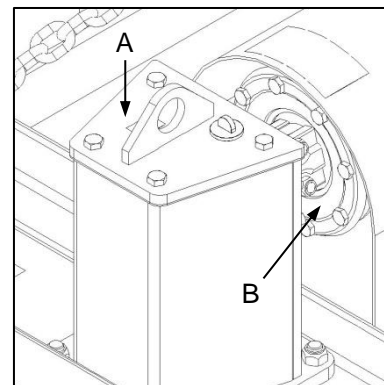


Fig. 6

Following any maintenance or repair of the PTO friction clutch assembly the pre-load on the friction clutch plates must be adjusted to factory specifications. This is accomplished by adjusting the nuts (Fig. 5-A) to set the compressed spring length (Fig. 5-H).

- ⊖ F40-120V: Friction clutch Type F1 by Comer Industries; H = 32 mm.
- ⊖ All other models: Friction clutch Type F2 by Comer Industries; H = 32,9 mm.

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 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, 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, bushes and nuts.
- ✔ Check blade mounting holes (Fig. 7-A / 8-A) for signs of wear, elongation or fractures. In the event of any observed defect do NOT attempt a repair, but provide immediate replacement of the defective item.
- ✔ Check blade beams and 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 end of the beam or disc. In the event of any observed defect do NOT attempt a repair, but immediately replace the defective item.

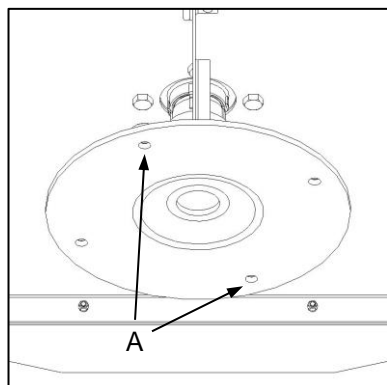


Fig. 7

Na instandhouding of herstel van die kragaftakkeras-wrywingkoppelaarmontering moet die voorlas op die koppelaarplate volgens fabriekspesifikasies verstel word. Dit word gedoen deur verstelling van die moere (Fig. 5-A) om die saamgeperste veer se lengte te stel (Fig. 5-H).

- ⊖ F40-120V: Wrywingkoppelaar Tipe F1 deur Comer Industries; H = 32 mm.
- ⊖ Alle ander modelle: Wrywingkoppelaar Tipe F2 deur Comer Industries; H = 32,9 mm

Lemvervanging

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

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, insluitend lemboute, -busse en -moere.
- ✔ Gaan lemmonteringsgate (Fig. 7-A / 8-A) na vir tekens van slytasie, vergroting of breuke. In die geval van enige waargenome defek, moet NIE probeer om dit herstel nie, maar vervang die defekte item onmiddellik.
- ✔ Gaan lembalke en -skywe na vir verwringing voor die aanbring van nuwe lemme. Laat die implement sonder lemme teen 'n lae spoed loop en gaan na vir sigbare waggeling (sowel radiaal as vertikaal) aan die ent van die balk of skyf. In geval van enige waargenome defek, moet dit NIE probeer herstel nie, maar vervang die defekte item onmiddellik.

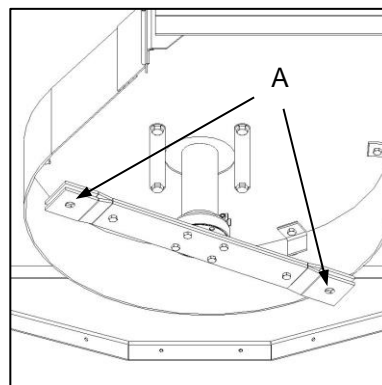


Fig. 8

- ✔ Weigh blades before installation. Blades of nearest equivalent masses should be installed in opposing positions on the same cutting gear assembly to maintain balance (Fig. 9 / 10).
- ✔ Following any maintenance or replacement of cutting gear components, run the implement up to operating speed and conduct visual checks for excessive vibration.

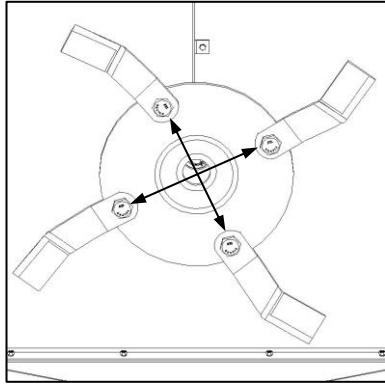


Fig. 9

- ✔ Weeg lemme voor hulle aangebring word. Lemme met die naaste eenderse massas moet teenoor mekaar op dieselfde snymeganismemontering aangebring word om balans te handhaaf (Fig. 9 / 10).
- ✔ Na installering van nuwe snymeganisme-onderdele, kry die implement op werkspoed en voer 'n visuele inspeksie uit vir oormatige vibrasie.

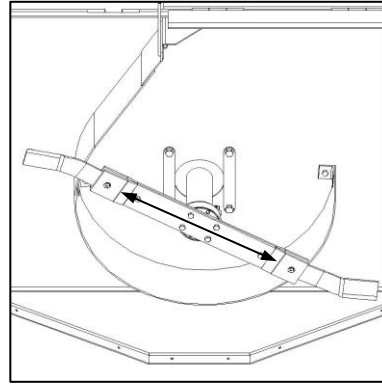


Fig. 10

- ✘ 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 geïdentifiseer 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)/Boutwringkragspesifikasies (N.m)

Class/Klas	4.6		8.8		10.9		12.9	
	Wet/Nat	Dry/Droog	Wet/Nat	Dry/Droog	Wet/Nat	Dry/Droog	Wet/Nat	Dry/Droog
M6	4,8	6	9	11	13	17	15	19
M8	12	15	22	28	32	40	37	47
M10	23	29	43	55	63	80	75	95
M12	40	50	75	95	110	140	130	165
M14	63	80	120	150	175	225	205	260
M16	100	125	190	240	275	350	320	400
M18	135	175	260	330	375	475	440	560
M20	190	240	375	475	530	675	625	800
M22	260	330	510	650	725	925	850	1 075
M24	330	425	650	825	925	1 150	1 075	1 350
M27	490	625	950	1 200	1 350	1 700	1 600	2 000
M30	675	850	1 300	1 650	1 850	2 300	2 150	2 700
M33	800	1 150	1 750	2 200	2 500	3 150	2 900	3 700
M36	1 150	1 450	2 250	2 850	3 200	4 050	3 750	4 750

Table/Tabel 2

Lubrication Requirements/Smeringvereistes

Application/Toepassing		Type/Tipe	Process/Proses	Interval	Products/Produkte
Gearboxes Ratkaste	Bevel gearboxes Keëlratkaste	Oiled/Geolie	Replace/Vervang	12M	Gear oil, Fuchs, Renep 1000 Ratkasolie, Fuchs, Renep 1000
			Check/Gaan na	1D	
	Splitter gearboxes Verdeelratkaste	Oiled/Geolie	Replace/Vervang	12M	
			Check/Gaan na	1D	
PTO driveshafts Kragaftakkerasse	UV-joints Kruiskoppelings	Greased/Geghries	Refresh/Aanvul	10H/U	Grease, Universal, Moly #2 Ghries, Algemene, Moly #2
	CV-joints KS-koppelings (CV joints)	Greased/Geghries	Refresh/Aanvul	10H/U	
	Telescopic tubes Teleskopiese buise	Greased/Geghries	Refresh/Aanvul	20H/U	
Auxiliary drives Hulpaandrywings	Intermediate shafts Intermediêre asse	Greased/Geghries	Refresh/Aanvul	10H/U	Grease, Fuchs, HT Lithium M2 Ghries, Fuchs, HT Lithium M2
	Spindles Spille	Greased/Geghries	Replace/Vervang	12M	
			Refresh/Aanvul	10H/U	
	Bearing housings Koeëllaeromhulsels	Greased/Geghries	Replace/Vervang	3M	
Refresh/Aanvul			10H/U		
Wheels Wiele	Wheel bearings Wielkoeëllaers	Greased/Geghries	Refresh/Aanvul	1W	Grease, Universal, Moly #2 Ghries, Algemene, Moly #2
Pivot points Spilpunte	Pins and bushes Penne en busse	Greased/Geghries	Refresh/Aanvul	10H/U	Machine oil, Universal Masjienolie, Algemene
		Oiled/Geolie	Refresh/Aanvul	10H/U	Grease, Universal, Moly #2 Ghries, Algemene, Moly #2
	Ball joints Koeëlgewrig	Greased/Geghries	Refresh/Aanvul	10H/U	Machine oil, Universal Masjienolie, Algemene
		Oiled/Geolie	Refresh/Aanvul	10H/U	Grease, Universal, Moly #2 Ghries, Algemene, Moly #2
Adjusters/Levers Verstellers/Hefbome	Threaded rods/ Leadscrews Skroefdraad stawe/Leiskroewe	Greased/Geghries	Refresh/Aanvul	20H/U	Grease, Universal, Moly #2 Ghries, Algemene, Moly #2
		Oiled/Geolie	Refresh/Aanvul	20H/U	Machine oil, Universal Masjienolie, Algemene

TROUBLESHOOTING

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.

FOUTOPSPORING

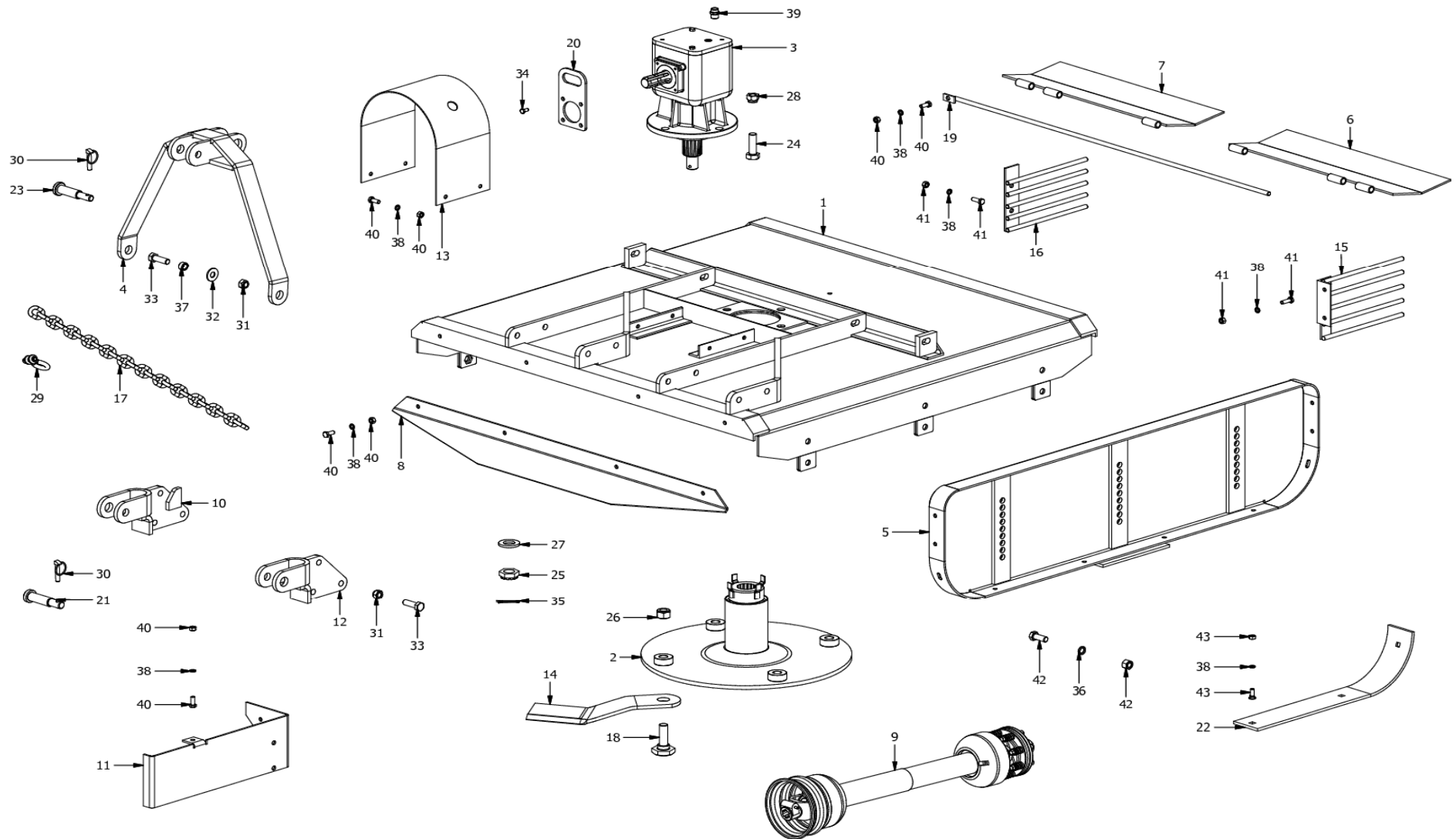
Algemene foutopsporing

Die tabel hier 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 / discharge	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 friction clutch Worn blades	Adjust forward speed Maintain/adjust as necessary Sharpen/replace blades
Poor windrow formation/ Over-processing	Insufficient forward speed Worn blades Incorrect blade selection	Increase forward speed Sharpen/replace blades Review blade selection
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 gestel 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 kragaftakkeras-spoed Verkeerde vorentoe spoed	Verstel snyhoogte Hou by korrekte kragaftakkeras-spoed Verstel vorentoe spoed
Swak snitgehalte	Te hoë vorentoe spoed Defekte wrywingkoppelaar Geslyte lemme	Verstel vorentoe spoed Herstel/verstel soos nodig Slyp/vervang lemme
Swak windryvorming/ Oorverwerking	Te lae vorentoe spoed Geslyte lemme Verkeerde lemseleksie	Verhoog vorentoe spoed Slyp/vervang lemme Hersien lemseleksie
Uitermatige vibrasie	Beskadigde/geslyte snymeganisme Beskadigde/geslyte kragaftakkeras	Vervang beskadigde/geslyte onderdele Vervang beskadigde/geslyte onderdele

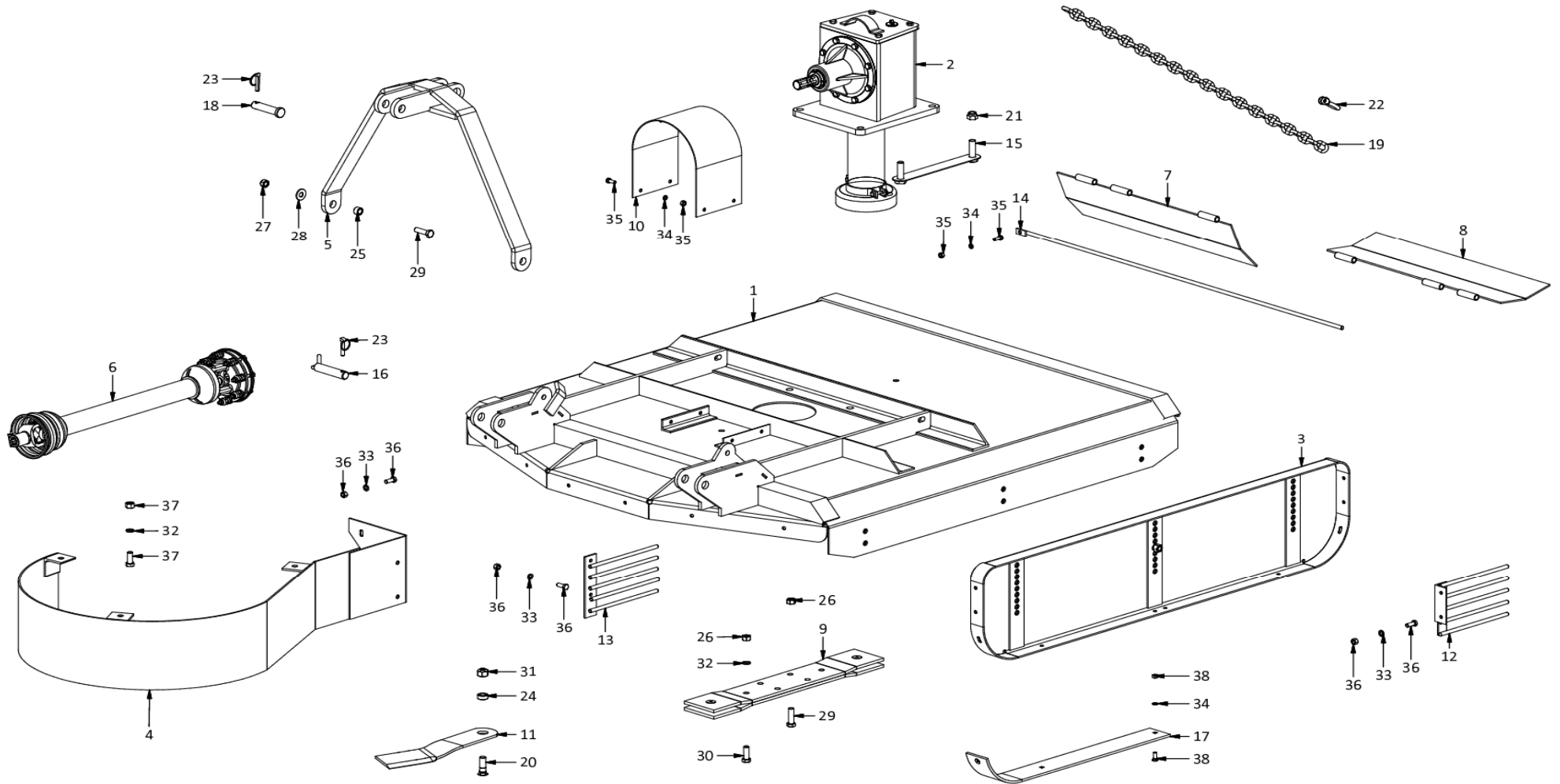
F40-120V Haymaker
A0049



**F40-120V Haymaker
A0049**

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	H0558	Deck Painted 1200	1	41	M11030	Bolt+nut M10x25HT	12
2	H1275	Disk 40/120V	1	42	M11640	Bolt+nut M16x40HT	24
3	M1203	Gearbox F40	1	43	M21030	Plough bolt+nut M10x30HT	24
4	H0601	Top mast Cat1/2	1	44	M3187	DecalATTENTION If your tractor is	1
5	H0490	Side Panel 40/120V	2	45	M3171	Decal Baie Belangrik Alvorens U Die	1
6	H0209	Flap Rear Left 1200	1	46	M3168	Decal Bird FALCON Large	1
7	H0210	Flap Rear Right 1200	1	47	M3176	Decal Bird Falcon Meduim	2
8	H0252	Skirt1200	1	48	M3178	Decal Blade/Lem	1
9	T400760CE112F12	PTO shaft T40 760 112 F12	1	49	M3172	Decal DANGER STAY AWAY - ROTATING.....	1
10	H0655	Clevis Right +stop	1	50	M3157	Decal F40/120V Haymaker	1
11	H0412	Deflector plate	1	51	M3174	Decal IMPORTANT WHEN LOADING.....	1
12	H0654	Clevis Left	1	52	M3173	Decal Lifting hook	1
13	H0702	PTO guard	1	53	M3175	Decal PROUD TO BE SOUTH AFRICAN	1
14	H1812_new	BLADE BANANA 10x90x(375)-32.5	4	54	M3170	Decal VERY IMPORTANT BEFORE USING.....	1
15	H0820	Fingers Left	1	55	M3116	Decal WARRANTY 2+2 WAARBORG.....	1
16	H0868	Fingers	1	56	M3003	Serial plate	1
17	R0609	Chain GR5 9.0	1				
18	M52275	Blade bolt M22-10.9 Special	4				
19	H0101	Pin Hinge 1200	1				
20	M0626	Lifting bracket	1				
21	H0645	Pin Btm link Cat2/1	2				
22	H0430	Skid runner 8x90	4				
23	H0633	Pin Top link Cat2/1	1				
24	M41963	Bolt 3/4UNFx2.5	4				
25	0.140.7102.00	Nut Slotted M30x2	1				
26	M62222	Nut Nyloc M22	4				
27	0.139.7101.00	Washer 31x56x6	1				
28	M61919	Nut Nyloc 3/4UNF	4				
29	M0622	Shackle 7/16in 1.5T	2				
30	FLP11	Lynchpin 11mm	3				
31	M61616	Nut Nyloc M16	6				
32	M81603	Washer M16x40x3	2				
33	M41650	BoltM16x50HT	6				
34	M40815	Bolt M8x16HT	4				
35	M1416	Split pin B5x60	1				
36	M91604	Washer Spring M16	12				
37	H71613	Bush 16x25x13	2				
38	M91002	Washer Spring M10	28				
39	LF14086700269	Plug Breather 1/2BSP	1				
40	M11025	Bolt+nut M10x25HT	20				

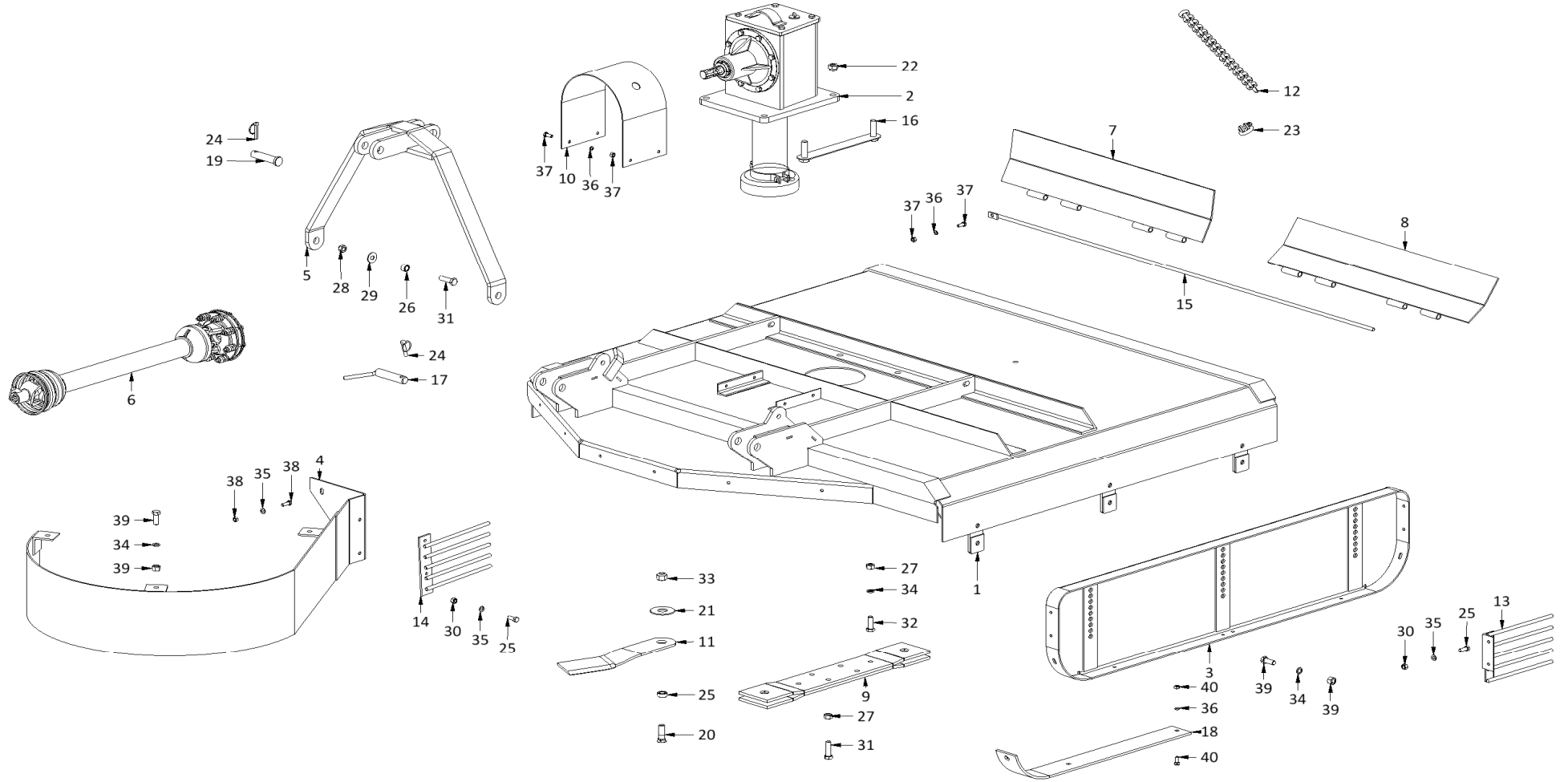
F80-150V Haymaker
A0032



**F80-150V Haymaker
A0032**

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	H0532A	Painted Hull 80/150V	1	41	M3168	Decal Bird FALCON Large	1
2	H1401A	Gearbox F80V	1	42	M3176	Decal Bird Falcon Meduim	2
3	H0406	Side Panel	2	43	M3178	Decal Blade/Lem	1
4	H0801	Scroll	1	44	M3172	Decal DANGER STAY AWAY - ROTATING.....	1
5	H0602	Top mast Cat2	1	45	M3146	Decal F80/150V Haymaker	1
6	T600960CE112F22	PTO shaft T60 960 112 F22	1	46	M3174	Decal IMPORTANT WHEN LOADING.....	1
7	H0204	Flap Rear 1800	1	47	M3173	Decal Lifting hook	1
8	H0205	Flap Rear 1800	1	48	M3175	Decal PROUD TO BE SOUTH AFRICAN	1
9	H1451	Blade beam 10x130 PCD645	2	49	M3170	Decal VERY IMPORTANT BEFORE USING.....	1
10	H0702	PTO guard	1	50	M3117	Decal WARRANTY 2+3 WAARBORG.....	1
11	H1806	BLADE BANANA 8x90x(410)-32.5	2	51	M3003	Serial plate	1
12	H0820	Fingers Left	1				
13	H0821	Fingers Right	1				
14	H0102	Pin Hinge 1500	1				
15	H1448	Ganged bolts 3/4UNFx2-1/2	2				
16	H7115	Pin Btm link Cat2-125	2				
17	H0422	Skid runner 8x90	4				
18	H0632	Pin Top link Cat2	1				
19	R0611	Chain GR5 10.0	2				
20	M51963	Blade bolt 3/4UNCx2-1/2HT CSK	2				
21	M61919	Nut Nyloc 3/4UNF	4				
22	M0622	Shackle 7/16in 1.5T	4				
23	FLP11	Lynchpin 11mm	3				
24	H71914	Bush Hard 19x32x14	2				
25	H71617	Bush 16x25x17	2				
26	M31612	Nut M16	6				
27	M61616	Nut Nyloc M16	2				
28	M81603	Washer M16x40x3	2				
29	M41655	Bolt M16x55HT	6				
30	M41645	Bolt M16x45HT	2				
31	M61921	Nut Nyloc 3/4UNC CSK	2				
32	M91604	Washer Spring M16	17				
33	M91213	Washer Spring M12	6				
34	M91002	Washer Spring M10	17				
35	M11025	Bolt+nut M10x25HT	10				
36	M11230	Bolt+nut M12x30	12				
37	M11640	Bolt+nut M16x40HT	30				
38	M21030	Plough bolt+nut M10x30HT	24				
39	M3187	Decal ATTENTION If your tractor is	1				
40	M3171	Decal Baie Belangrik Alvorens U Die	1				

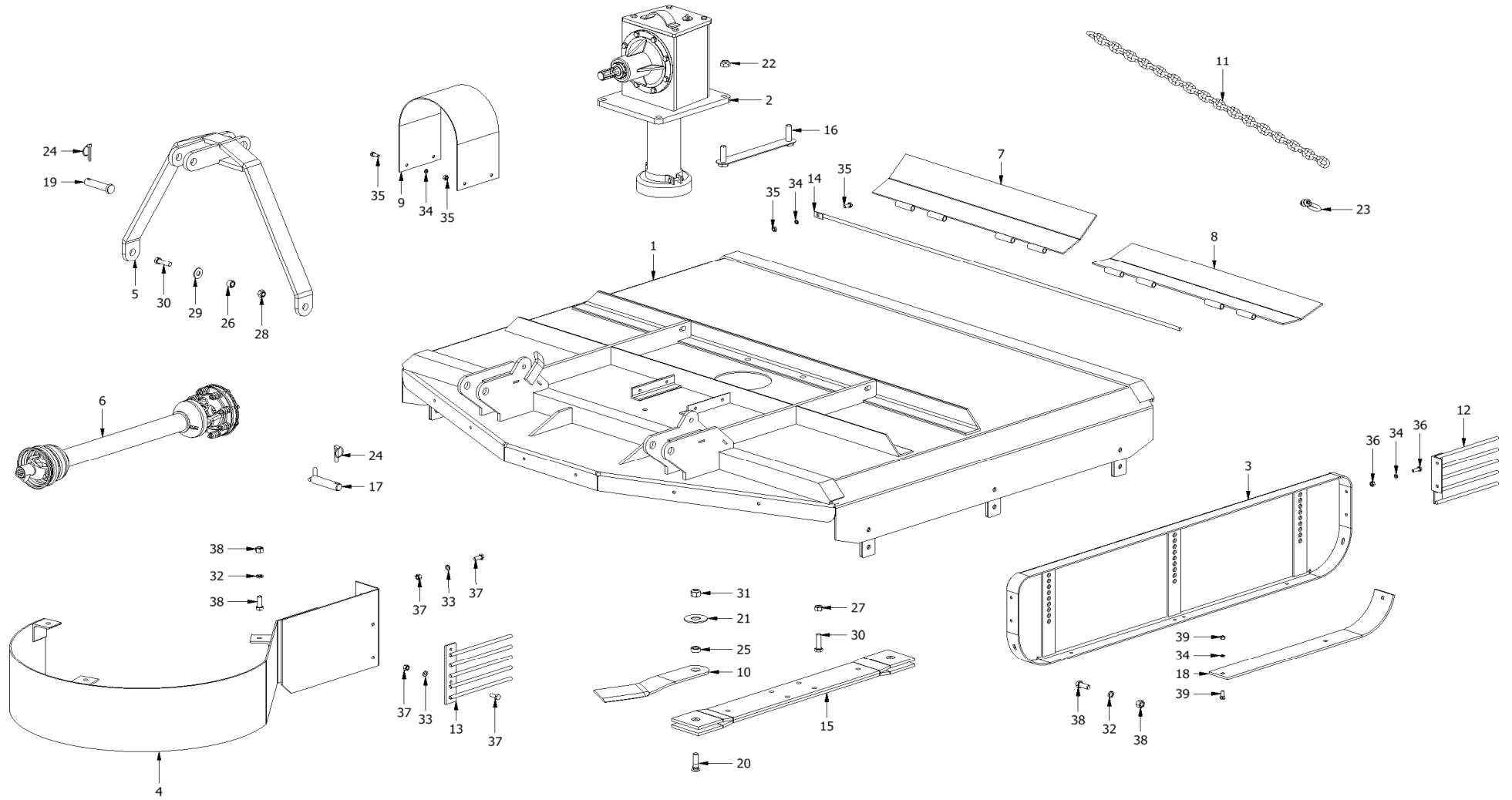
F80-150EV Haymaker
A0033



**F80-150EV Haymaker
A0033**

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	H0540A	Deck Painted	1	41	M3173	Decal Lifting hook	1
2	H1401A	Gearbox F80V	1	42	M3178	Decal Blade/Lem	1
3	H0406	Side Panel	2	43	M3171	Decal Baie Belangrik Alvorens U Die	1
4	H0803	Scroll	1	44	M3170	Decal VERY IMPORTANT BEFORE USING.....	1
5	H0602	Top mast Cat1/2	1	45	M3147	Decal F80/150EV Haymaker	1
6	T600960CE112F22	PTO shaft T60 960 112 F22	1	46	M3090	Decal Important - Remove Flap	1
7	H0207	Flap Rear 1800	1	47	M3003	Serial plate	1
8	H0206	Flap Rear 1800	1	48	M3172	Decal DANGER STAY AWAY - ROTATING.....	1
9	H1451	Blade beam 10x130x(645)-20SQ	2	49	M3168	Decal Bird FALCON Large	1
10	H0702	PTO guard	1	50	M3176	Decal Bird Falcon Meduim	2
11	H1806	BLADE BANANA 8x90x(410)-32.5	2	51	M3187	Decal ATTENTION If your tractor is	1
12	R0611	Chain Gr5 10mm 2T	2	52	M3175	Decal PROUD TO BE SOUTH AFRICAN	1
13	H0820	Fingers-Left	1	53	M3117	Decal WARRANTY 2+3 WAARBORG.....	1
14	H0821	Fingers-Right	1				
15	H0103	Rod Flap 1800	1				
16	H1448	Ganged bolts 3/4UNFx2-1/2	2				
17	H7115	Pin Btm link Cat2 125mm	2				
18	H0422	Skid Runner 8x90x86.5	4				
19	H0632	Pin Top link Cat2	1				
20	M51963	Blade bolt 3/4UNCx2-1/2 CSK HT	2				
21	M83304	Washer 33x44	2				
22	M61919	Nut Nyloc 3/4UNF	4				
23	M0622	Shackle 7/16in 1.5T	4				
24	FLP11	Lynchpin 11mm	3				
25	M41230	Bolt M12x30HT	4				
26	H71617	Bush 16x25x17	2				
27	M31612	Nut M16	6				
28	M61616	Nut Nyloc M16	2				
29	M81603	Washer M16x40x3	2				
30	M31209	Nut M12	4				
31	M41655	Bolt M16x55HT	6				
32	M41645	Bolt M16x45HT	2				
33	M61921	Nut Nyloc 3/4"UNC CSK	2				
34	M91604	Washer Spring M16	17				
35	M91213	Washer Spring M12	6				
36	M91002	Washer Spring M10	17				
37	M11025	Bolt + Nut M10x25HT	10				
38	M11030	Bolt + Nut M10x30HT	4				
39	M11640	Bolt + Nut M16x40 HT	30				
40	M21030	Plough bolt+nut M10x30HT	24				

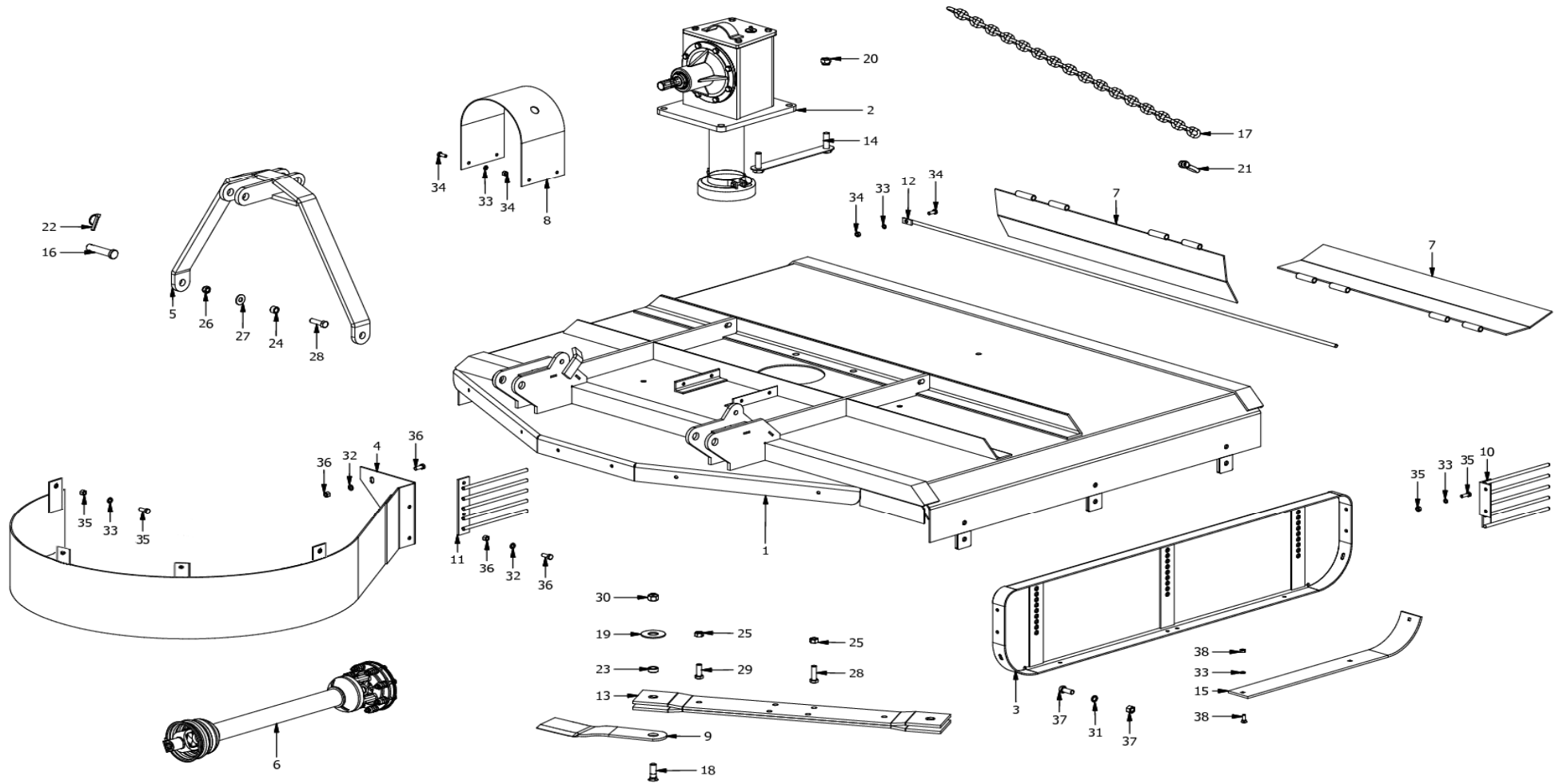
F80-180V Haymaker
A0035



**F80-180V Haymaker
A0035**

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	H0533A	Deck Painted 1800	1	41	M3171	Decal Baie Belangrik Alvorens U Die	1
2	H1401A	Gearbox F80V	1	42	M3168	Decal Bird FALCON Large	1
3	H0406	Side Panel	2	43	M3176	Decal Bird Falcon Meduim	2
4	H0802	Scroll	1	44	M3178	Decal Blade/Lem	1
5	H0602	Top mast Cat2	1	45	M3172	Decal DANGER STAY AWAY - ROTATING.....	1
6	T600960CE112F22	PTO shaft T60 960 112 F22	1	46	M3150	Decal F80/180V Haymaker	1
7	H0207	Flap Rear 1800	1	47	M3090	Decal Important - Remove Flap	1
8	H0206	Flap Rear 1800	1	48	M3174	Decal IMPORTANT WHEN LOADING.....	1
9	H0702	PTO guard	1	49	M3173	Decal Lifting hook	1
10	H1806	Blade Banana 8x90x(410)-32.5	2	50	M3175	Decal PROUD TO BE SOUTH AFRICAN	1
11	R0611	Chain GR5 10.0	1	51	M3170	Decal VERY IMPORTANT BEFORE USING.....	1
12	H0820	Fingers Left	1	52	M3117	Decal WARRANTY 2+3 WAARBORG.....	1
13	H0821	Fingers Right	1	53	M3003	Serial plate	1
14	H0103	Pin Hinge 1800	1				
15	H1452	Blade beam 10x130 PCD945	2				
16	H1448	Ganged bolts 3/4UNFx2-1/2	2				
17	H7115	Pin Btm link Cat2 125mm	2				
18	H0422	Skid runner	4				
19	H0632	Pin Top link Cat2	1				
20	M51963	Blade bolt 3/4UNCx2-1/2 CSK HT	2				
21	M83304	Washer 33x80x4	2				
22	M61919	Nut Nyloc 3/4UNF	4				
23	M0622	Shackle 7/16in 1.5T	4				
24	FLP11	Lynchpin 11mm	3				
25	H71914	Bush 20x32x14	2				
26	H71617	Bush 16.5x25x17	2				
27	M31612	Nut M16	6				
28	M61616	Nut Nyloc M16	2				
29	M81603	Washer M16x40x3	2				
30	M41655	Bolt M16x55HT	6				
31	M61921	Nut Nyloc 3/4UNC CSK	2				
32	M91604	Washer Spring M16	17				
33	M91213	Washer Spring M12	3				
34	M91002	Washer Spring M10	19				
35	M11025	Bolt+nut M10x25HT	10				
36	M11030	Bolt+nut M10x25HT	4				
37	M11230	Bolt+nut M12x30	6				
38	M11640	Bolt+nut M16x40HT	30				
39	M21030	Plough bolt+nut M10x30HT	24				
40	M3187	Decal ATTENTION If your tractor is	1				

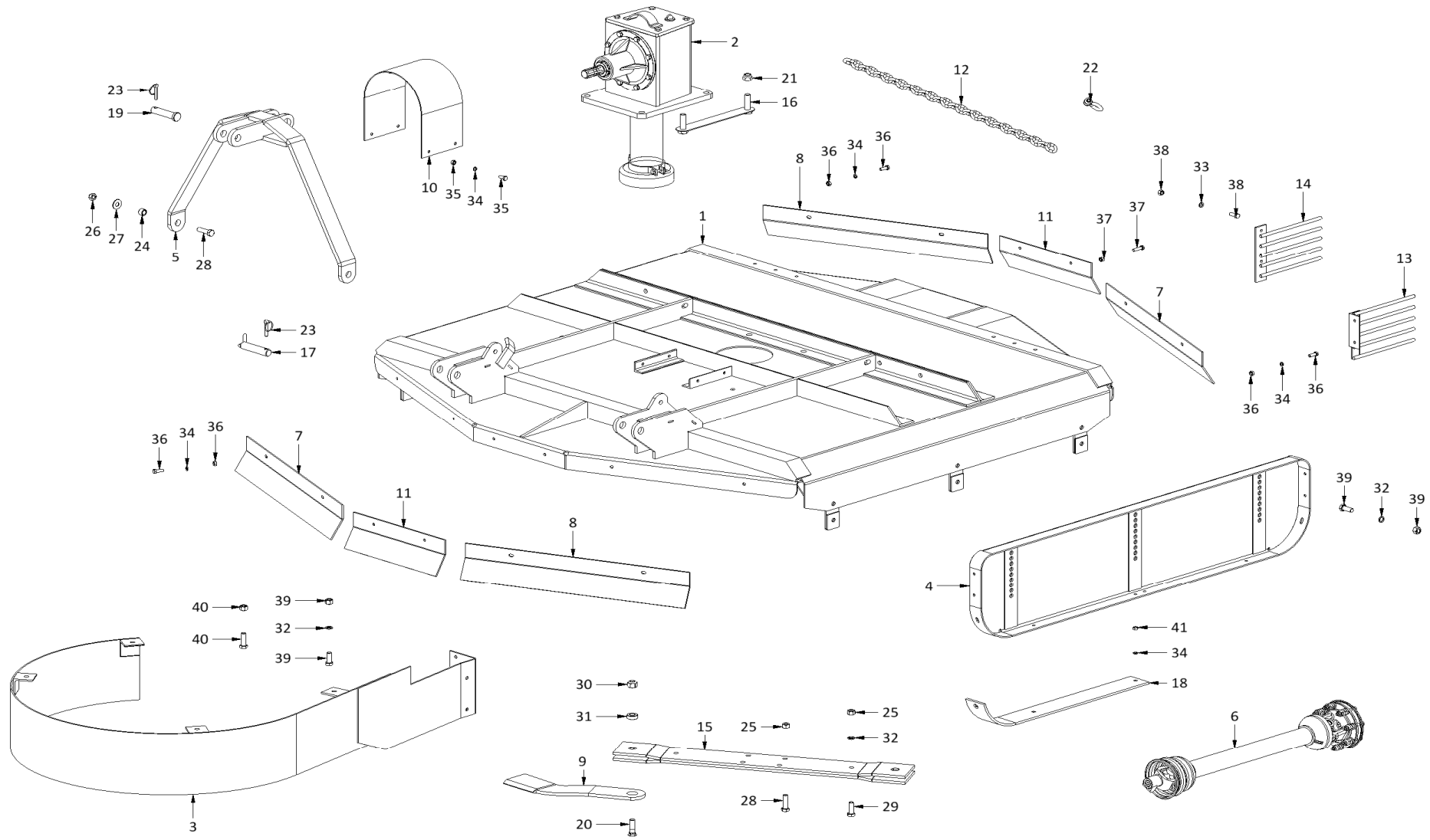
F80-180EV Haymaker
A0036



**F80-180EV Haymaker
A0036**

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	H0541B	Deck Painted 1800	1	41	M3172	Decal DANGER STAY AWAY - ROTATING.....	1
2	H1401A	Gearbox Complete F80V	1	42	M3003	Serial plate	1
3	H0406	Side Panel	2	43	M3090	Decal Important - Remove Flap	1
4	H0804A	Scroll	1	44	M3151	Decal F80/180EV Haymaker	1
5	H0602	Top mast Cat1/2	1	45	M3170	Decal VERY IMPORTANT BEFORE USING.....	1
6	T600960CE112F22	PTO shaft T60 960 112 F22	1	46	M3171	Decal Baie Belangrik Alvorens U Die	1
7	H0208	Back Flap 80/180 EV L&R	2	47	M3173	Decal Lifting hook	1
8	H0702	PTO guard	1	48	M3174	Decal IMPORTANT WHEN LOADING.....	1
9	H1806	BLADE BANANA 8x90x(410)-32.5	2	49	M3175	Decal PROUD TO BE SOUTH AFRICAN	1
10	H0820	Fingers-Left	1	50	M3187	Decal ATTENTION If your tractor is	1
11	H0821	Fingers-Right	1	51	M3178	Decal Blade/Lem	1
12	H0104	Back Flap Rod 180EV	1	52	M3117	Decal WARRANTY 2+3 WAARBORG.....	1
13	H1452	Blade beam 10x130x(945)-20SQ	2				
14	H1448	Ganged bolts 3/4UNFx2-1/2 Galv	2				
15	H0422	Skid Runner 8x90x86.5	4				
16	H0632	Pin Top link Cat2	1				
17	R0611	Chain Gr5 10mm 2T	2				
18	M51963	Blade bolt 3/4UNCx2-1/2 CSK-10.9	2				
19	M83304	Washer 33x44	2				
20	M61919	Nut Nyloc 3/4UNF	4				
21	M0622	Shackle 7/16in 1.5T	4				
22	FLP11	Lynchpin 11mm	3				
23	H71914	Bush 32x19.5x14	2				
24	H71617	Bush 16x25x17	2				
25	M31612	Nut M16	6				
26	M61616	Nut Nyloc M16	2				
27	M81603	Washer M16x40x3	2				
28	M41655	Bolt M16x55 HT	6				
29	M41645	Bolt M16x45 HT	2				
30	M61921	Nut Nyloc 3/4"UNC CSK	2				
31	M91604	Washer Spring M16	14				
32	M91213	Washer Spring M12	4				
33	M91002	Washer Spring M10	23				
34	M11025	Bolt + Nut M10x25 HT	5				
35	M11030	Bolt + Nut M10x30 HT	6				
36	M11230	Bolt M12x30 + Nut	4				
37	M11640	Bolt + Nut M16x40 HT	12				
38	M21030	Plough bolt+nut M10x30HT	12				
39	M3176	Decal Bird Falcon Meduim	2				
40	M3168	Decal Bird FALCON Large	1				

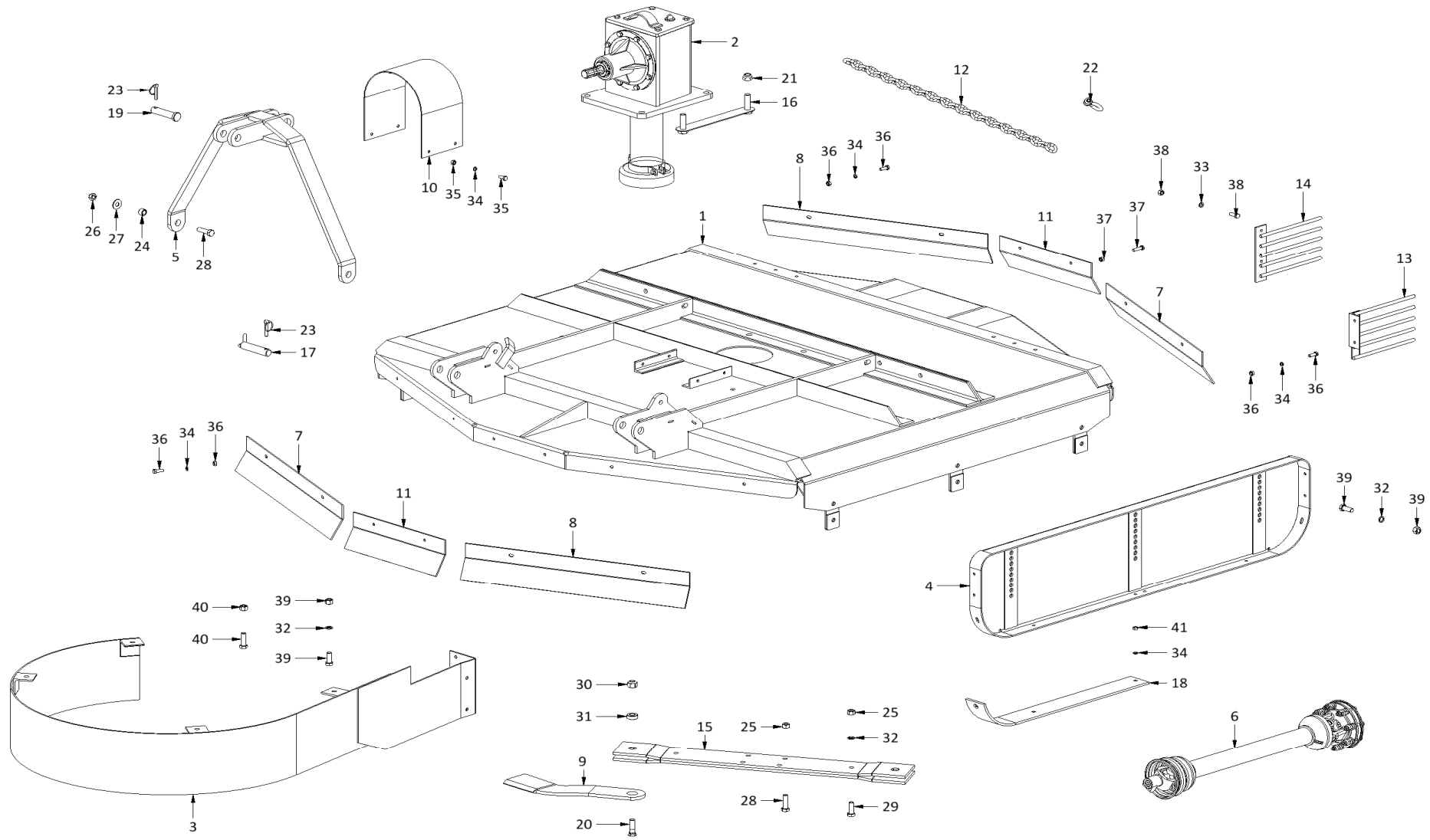
F80-200V Haymaker
A0040



**F80-200V Haymaker
A0040**

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	H0543A	Painted Hull 80/200V	1	41	M21030	Plough bolt+nut M10x30HT Galv	24
2	H1401A	Gearbox Complete F80V 1:1.87	1	42	M3187	Decal ATTENTION If your tractor is	1
3	H0805	Scroll F80/180V	1	43	M3171	Decal Baie Belangrik Alvorens U Die	1
4	H0406	Side Panel	2	44	M3168	Decal Bird FALCON Large	1
5	H0602	Top mast Cat1/2	1	45	M3176	Decal Bird Falcon Meduim	2
6	T600960CE112F22	PTO shaft T60 960 112 F22	1	46	M3178	Decal Blade/Lem	1
7	H0213	Guard	2	47	M3172	Decal DANGER STAY AWAY - ROTATING.....	1
8	H0214	Guard	2	48	M3154	Decal F80/200V Haymaker	1
9	H1809	BLADE BANANA 12x90x(545)-38.5	2	49	M3174	Decal IMPORTANT WHEN LOADING.....	1
10	H0702	PTO guard	1	50	M3173	Decal Lifting hook	1
11	H0215	Guard	2	51	M3175	Decal PROUD TO BE SOUTH AFRICAN	1
12	R0611	Chain Gr5 10mm 2T	1	52	M3170	Decal VERY IMPORTANT BEFORE USING.....	1
13	H0820	Fingers-Left	1	53	M3117	Decal WARRANTY 2+3 WAARBORG.....	1
14	H0821	Fingers-Right	1	54	M3003	Serial plate	1
15	H1452	Blade beam 10x130x(945)-20SQ	2				
16	H1448	Ganged bolts 3/4UNFx2-1/2 Galv	2				
17	H7115	Pin Btm link Cat2 125mm	2				
18	H0422	Skid Runner 8x90x86.5	4				
19	H0632	Pin Top link Cat2	1				
20	M51963	Blade bolt 3/4UNCx2-1/2 CSK-10.9 Black	2				
21	M61919	Nut Nyloc 3/4UNF	4				
22	M0622	Shackle 7/16in 1.5T	4				
23	FLP11	Lynchpin 11mm	3				
24	H71617	Bush 16.5x25x17	2				
25	M31612	Nut M16 Galv	6				
26	M61616	Nut Nyloc M16 Galv	2				
27	M81603	Washer M16x40x3 Galv	2				
28	M41655	Bolt M16x55 HT Galv	6				
29	M41645	Bolt M16x45 HT Galv	2				
30	M61921	Nut Nyloc 3/4"UNC CSK	2				
31	M73814	Bush 19x38x14	2				
32	M91604	Washer Spring M16 Galv	18				
33	M91213	Washer Spring M12 Galv	2				
34	M91002	Washer Spring M10 Galv	30				
35	M11025	Bolt + Nut M10x25 HT Galv	8				
36	M11030	Bolt + Nut M10x30 HT Galv	26				
37	M11040	Bolt + Nut M10x40 HT Galv	2				
38	M11230	Bolt M12x30 + Nut Galv	4				
39	M11640	Bolt + Nut M16x40 HT Galv	30				
40	M11650	Bolt & Nut M16 x 50 Galv	2				

F80-200VH Haymaker
A0083



**F80-200VH Haymaker
A0083**

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	H0543A	Painted Hull 80/200V	1	41	M21030	Plough bolt+nut M10x30HT Galv	24
2	H1401A	Gearbox Complete F80V 1:1.87	1	42	M3187	Decal ATTENTION If your tractor is	1
3	H0805	Scroll F80/180V	1	43	M3171	Decal Baie Belangrik Alvorens U Die	1
4	H0406	Side Panel	2	44	M3168	Decal Bird FALCON Large	1
5	H0602	Top mast Cat1/2	1	45	M3176	Decal Bird Falcon Meduim	2
6	T600960CE112F22	PTO shaft T60 960 112 F22	1	46	M3178	Decal Blade/Lem	1
7	H0213	Guard	2	47	M3172	Decal DANGER STAY AWAY - ROTATING.....	1
8	H0214	Guard	2	48	M3154	Decal F80/200V Haymaker	1
9	H1460	Blade 8x90x(425)-38.5	2	49	M3174	Decal IMPORTANT WHEN LOADING.....	1
10	H0702	PTO guard	1	50	M3173	Decal Lifting hook	1
11	H0215	Guard	2	51	M3175	Decal PROUD TO BE SOUTH AFRICAN	1
12	R0611	Chain Gr5 10mm 2T	1	52	M3170	Decal VERY IMPORTANT BEFORE USING.....	1
13	H0820	Fingers-Left	1	53	M3117	Decal WARRANTY 2+3 WAARBORG.....	1
14	H0821	Fingers-Right	1	54	M3003	Serial plate	1
15	H1476	Blade beam 10x130 PCD1145	2				
16	H1448	Ganged bolts 3/4UNFx2-1/2 Galv	2				
17	H7115	Pin Btm link Cat2 125mm	2				
18	H0422	Skid Runner 8x90x86.5	4				
19	H0632	Pin Top link Cat2	1				
20	M51963	Blade bolt 3/4UNCx2-1/2 CSK-10.9 Black	2				
21	M61919	Nut Nyloc 3/4UNF	4				
22	M0622	Shackle 7/16in 1.5T	4				
23	FLP11	Lynchpin 11mm	3				
24	H71617	Bush 16.5x25x17	2				
25	M31612	Nut M16 Galv	6				
26	M61616	Nut Nyloc M16 Galv	2				
27	M81603	Washer M16x40x3 Galv	2				
28	M41655	Bolt M16x55 HT Galv	6				
29	M41645	Bolt M16x45 HT Galv	2				
30	M61921	Nut Nyloc 3/4"UNC CSK	2				
31	M73814	Bush 19x38x14	2				
32	M91604	Washer Spring M16 Galv	18				
33	M91213	Washer Spring M12 Galv	2				
34	M91002	Washer Spring M10 Galv	30				
35	M11025	Bolt + Nut M10x25 HT Galv	8				
36	M11030	Bolt + Nut M10x30 HT Galv	26				
37	M11040	Bolt + Nut M10x40 HT Galv	2				
38	M11230	Bolt M12x30 + Nut Galv	4				
39	M11640	Bolt + Nut M16x40 HT Galv	30				
40	M11650	Bolt & Nut M16 x 50 Galv	2				

**Gearbox F80V
H1401A**

	Item	Part No.	Description	Qty
	1	M1413	Bearing 390	1
	2	M1412	Bearing 394A	1
	3	H1414	Gear Bevel Z28/z6	1
	4	H82802	Washer 29x50x4	1
	5	M1415	Nut Slotted 1-1/8in	1
	6	M41225	Bolt M12x25HT	12
	7	M81201	Washer Star M12	8
	8	H1410	Input cover F80	1
	9	M1434	Shim Input 0.1 Plastic	A/R
	10	M1411	Gasket Input F80	1
	11	H1409	Shaft Input 1-3/8 Z6	1
	12	M1408	Bearing LM29710	1
	13	M1407	Bearing LM29749	1
	14	M1404	Seal Lip 187275	1
	15	M1406	O-ring 34.5x3.5	1
	16	H1405	Seal Lip	1
	17	M1403	Washer Tabbed KM06	1
	18	H1402	Locknut M36x2.0	1
	19	M1439	Plug + Dipstick	1
	20	H1420A	Cover Gearbox F80	1
	21	M1421A	Gasket Top F80	1
	22	H1418A	Housing F80V	1
	23	H1428	Dust cover	1
	24	M41045	Bolt M10x45HT	2
	25	M31007	Nut M10	2
	26	M1422	Nut Slotted 1-1/4in	1
	27	M1446	Washer Hard 32x50x2	1
	28	H1423	Gear Beval Z15/z10	1
	29	M1441	Shim 38x60x0.5	A/R
	30	M1440	Shim 38x60x0.25	A/R
	31	M1442	Shim 38x60x1.0	A/R
	32	M1424	Bearing 3577	1
	33	M1425	Bearing 3525	1
	34	H1429	Retainer Domed	1
	35	M1430	Bearing 28920	1
	36	M1431	Bearing 28985	1
	37	M1432	Seal Lip 300400	2
	38	M1433	Seal Felt 75x100x12	1
	39	H1427	Shaft Output F80V	1
	40	M1416	Split pin B5x60	2