



HE-VA

Käyttöohjeet
Varaosaluettelo
Vakuutus

EU-Vaatimuksenmukaisuusvakuutus

As good as it looks

As good as



Huomio: Lue käyttöohjeet ennen koneen käyttöä.

Grass-Roller

Hinattava: 4,5 m - 6,3 - 8,2 m

| | |
|-----------------------|--------|
| Manual no. 8000394-10 | 110225 |
|-----------------------|--------|

 **HE-VA**

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EU-VAATIMUSTENMUKAISUUSVAKUUTUS

joulukuun 29. päivä 2009 voimaantulleen EU konedirektiivin 2006/42/EY mukaisesti:

HE-VA ApS
N. A. Christensensvej 34,
DK-7900 Nykøbing Mors

todistaa täten, että seuraava kone on valmistettu Neuvoston Direktiivin 2006/42/EY mukaisesti.

Vakuutus koskee seuraavaa konetta:

Nurmijyrä 4,5m - 6,3m – 8,2m

Nykøbing, 29. Joulukuuta 2009

A handwritten signature in black ink, appearing to read 'Villy Christiansen'. It is written in a cursive style with a horizontal line extending from the end of the signature.

Villy Christiansen

Allekirjoittanut on oikeutettu kokoamaan yllä mainitun koneen teknisen dokumentoinnin.

Vastaanottotarkistus

Tarkista, ettei jyrässä ole vaurioita. Tarkista, ettei hydrauliikkaletkuissa ole viiltoja tai puristusvaurioita. Tarkista myös, etteivät hydrauliikan muut komponentit ole vaurioituneet kuljetuksen aikana.

Tarkista, ettei runkorakenne ole vaurioitunut. Tarkista myös, ettei jyrälohkoihin ole kohdistunut iskuja, jotka ovat voineet vaurioittaa jyrää tai kaksoistiiivistettyjä kuulalaakereita.

Tarkista lopuksi, että kuljetuspyörät ovat kiristetyt ja kunnossa. Tarkistaa rengaspaineet: noin 3.8 bar.

Koneen nostamisen ja siirron ohjeita.

Kone on toimitettaessa täysin koottu. Erikoiskoulutettu kuljettajamme auttaa koneen siirtämisessä kuljetusajoneuvolta.

Kone siirretään kuljetusajoneuvolta traktorilla ramppien avulla, joista ohjeet antaa kuljettaja.

Kone ajetaan tasaiselle ja tukevalle alustalle.

Koneen toimintaselostus

Nurmijyrä on tarkoitettu nurmien ja ruohikkojen tiivistämiseen. Kun jyrä täytetään vedellä, saavutetaan suuri paino ja sen myötä tehokas ja tasainen nurmen tiivistys. Tiivistäminen varmistaa hyvän ja puhtaan nurmisadon ilman kiviä ja likaavaa maata. Kun jyrän eteen asennetaan kaksirivinen olkihara, irrottaa se uuden kasviston peittämät kasvijätteet ja hienontaa ne. Nurmijyrä voidaan varustaa jousiladalla tai tasausladalla asennettuna olkiharan etupuolelle tasaamaan myyrän kekoja tai lehmien lantapaakkuja. Se estää maan tai lian pääsyn korjattavan rehun sekaan. Kun nurmijyrään asennetaan HE-VA Multi-Seeder kylvölaite, voidaan heinän- tai muuta siementää kylvää samanaikaisesti tiivistämisen yhteydessä. Tämä mahdollistaa nurmien uudelleen kylvön tai paikkauskylvön talvehtimisvaurioiden jälkeen.



Tekniset tiedot

| Nurmijyrä | | 4,5 m | 6,3 m | 8,2 m |
|------------------------------|------|--------------|--------------|-------------------------|
| Työleveys | Cm | 450 | 630 | 820 |
| Sallittu enimmäisajonopeus | Km/h | 25 | 25 | 25 |
| Kokonaispaino | Kg | 1560 | 3050 | 4210 |
| Kokonaispaino vesitäätytöllä | Kg | 2830 | 5280 | 6420 |
| Akselipaino | Kg | - | 1980 | 3094 |
| Akselipaino vesitäätytöllä | Kg | - | 3650 | 4720 |
| Vetoaisapaino | Kg | - | 810 | 1116 |
| Vetoaisapaino vesitäätytöllä | Kg | - | 1550 | 1700 |
| Kokonaispituus | Cm | 409 | 409 | 550 |
| Kokonaisleveys | Cm | 222 | 242 | 244 |
| Jyrän tilavuus | L | 3 x 420 L | 3 x 770 L | 1 x 770 L 2 x 1130 L |

Olkihara

| | | | | |
|------------|----|---|---|---|
| Piikkiväli | Cm | 9 | 9 | 9 |
|------------|----|---|---|---|

Tekniset vaatimukset

| Traktori | | 4,5 m | 6,3 m | 8,2 m |
|-----------------|------------|--------------|--------------|--------------|
| Moottoriteho | kW (HK) | 70 - 120 | 100 - 140 | 120 - 160 |

Sähköjärjestelmä

| | | | | |
|-------------|---|--------------|--------------|--------------|
| Akkujännite | V | 12 | 12 | 12 |
| Valopistoke | | 7 – napainen | 7 – napainen | 7 – napainen |

Hydrauliikkajärjestelmä

| | | | | |
|--------------------|-------|---------|---------|---------|
| Enimmäiskäyttöaine | Bar | 220 | 220 | 220 |
| Pumpun tuotto | l/min | väh. 15 | väh. 15 | väh. 15 |

Öljytyyppi

| | | |
|------------------------------------------|----------------------|----------------------|
| Hydro Texaco HD32 | Hydro Texaco HD32 | Hydro Texaco HD32 |
| Specifikation DIN 51524-3/ISO 11158 L-HV | | |



Turvallisuusohjeet

Yleistieoja

Älä aloita koneen käyttöä, jos koneen **läheisyydessä**¹ tai sen **vaara-alueella**², oleskelee henkilötä.

Kun henkilötä oleskelee koneen läheisyydessä (esim. säätöä, huoltoa, kytkentää tai irrottamista varten), on seuraavia ohjeita noudatettava:

1. Koneen pitää olla maahan laskettuna.
2. Hydraulikan paineet on vapautettava.
3. Traktorin moottori on pysytettävä, virta-avain poistettava ja pysäköintijarru kytkettävä.
4. Kuljettajan pitää varmistaa, ettei kukaan oleskele koneen lähellä käytön aikana.

Useimmat, koneen käytön, kuljetuksen ja huollon aikana tapahtuvat onnettomuudet johtuvat siitä, ettei alkeellisimpiakaan turvaohjeita noudateta.

Tästä syystä on tärkeää, että kaikki henkilöt, jotka tekevät koneeseen toimenpiteitä, noudattavat turvaohjeita sekä muita koneen käytön ohjeita.

Konetta saa käyttää, huoltaa ja korjata ainoastaan sellaiset henkilöt, jotka tuntevat nämä työt ja jotka ovat tietoisia mahdollisista koneen aiheuttamista vaaratilanteista.

Maantiekuljetuksen ohjeita

Varmista ennen maatielle ajoa, että kone on kytketty traktoriin paikallisten, voimassa olevien säännösten mukaisesti (sallittu kokonaispaino, sallittu akselipaino, kuljetusleveys, ajovalot, varoituskilvet jne.).

Etuakselin kuormitus

Kun kone on kytketty traktoriin, on traktorin ajo-ominaisuudet tarkistettava. Varmista, että ohjaavilla pyörillä on riittävästi painoa. Etuakselipainon pitää olla vähintään 20 % traktorin painosta. Suurimpia sallittuja akseli- ja kokonaispainoja on aina noudatettava.

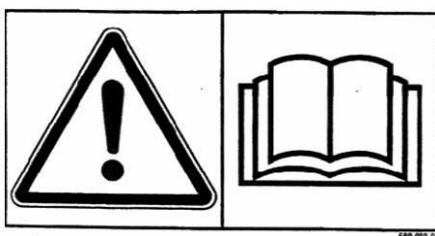
HUOM: Traktoriin kytketty raskas kone vaikuttaa traktorin ajo-, jarrutus- ja ohjausominaisuksiin.

¹ Henkilöt koneen läheisyydessä: Henkilö, joka kokonaan tai osittain on koneen vaara-alueella.

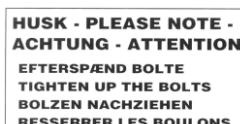
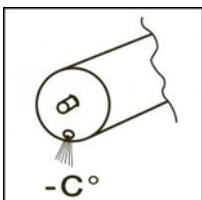
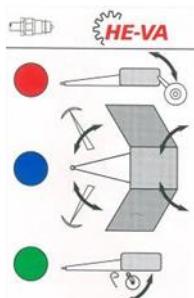
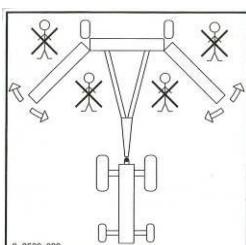
² Vaara-alue: Koneen päällä ja alla sekä 4 m etäisyydellä koneesta.



Turvallisuus – ja muita koneen merkintöjä



Tutustu huolellisesti käyttöohjeeseen ennen koneen käyttöä ja noudata siinä mainittuja turvaohjeita.



Varmista, ettei kukaan oleskele koneen vaara-alueella lohkojen taiton ja avaamisen aikana.

Koneen tyyppikilvessä on koneen mallinumero ja valmistusvuosi.

Koneen hydrauliikkajärjestelmän tarra:

Punainen: Koneen kesklohkon nostohydrauliikka

Sininen: Lohkohydrauliikka (lohkojen taitto ja painonsiirtojärjestelmä)

Vihreä: Lisävarusteet

Tyhjennä jyrässä oleva vesi ennen kuin se jäättyy. Ellei näin tehdä, ei takuu vastaa aiheutuneista vaurioista.

Kiristä pultit ja mutterit säännöllisesti. Ellei näin tehdä, ei takuu vastaa aiheutuneista vaurioista.

| Maximum torque according to ISO 898-1 in Nm. w/lubricated thread | | | |
|------------------------------------------------------------------|-------------|--------------|--------------|
| Metric thread | Quality 8.8 | Quality 10.9 | Quality 12.9 |
| M10 | 38 | 54 | 63 |
| M12 | 66 | 95 | 110 |
| M14 | 105 | 150 | 176 |
| M16 | 164 | 235 | 274 |
| M18 | 233 | 323 | 377 |
| M20 | 331 | 458 | 535 |
| M22 | 450 | 622 | 727 |
| M24 | 572 | 791 | 925 |
| Hub bolts M18x1,5 fine thread | | 360 | |
| Hub bolts M22x1,5 fine thread | | 550 | |



Käyttöohjeet

Kytkentä

Toimitettaessa jyrä on kuljetusasennossa. Jyrä kytketään traktoriin.

Tärkeää:

Tarkista, että traktorin vetokoukun korkeus on
500 - 550 mm

Nosta tukijalka ylös ja aseta se vetopuomin kuljetustukien varaan. Liitä kaikki hydrauliikkaletkut.

Jyrä vaatii kaksi 2-toimista hydrauliikan venttiiliä.

Keskilohkon nostosylinterin letkuissa on punaiset nippusiteet.

Lohkosylinterin letkuissa on siniset nippusiteet.

Olkiharhan sylinterin (lisävar.) letkuissa on vihreät nippusiteet.

Power plug and control box for weight transfer protection are putted into the cabin (8.2m models)

Koneen lohkojen avaus ja taitto

1. Varmista, että tehtaalla letkuihin asennetut koirasliittimet sopivat traktorin naarasliittimiin.
2. Contact on the control box for weight transfer protection activated (diode lights up)
3. Kytke paine keskilohkon sylinteriin (punainen) niin, että sivulohkot nousevat irti kuljetustuesta.
4. Kytke paine lohkosylintereihin (sininen) niin, että sivulohkot avautuvat kokonaan sylintereiden ollessa lyhyimmässä asennossa.
5. Vapauta nyt keskilohkon sylinterin (punainen) paine, jolloin jyrä laskeutuu eteenpäin, alas käyttöasentoon. Vapauta hallintavipu, kun jyrä on käyttöasennossa.
6. Contact on the control box for weight transfer protection de-activated (diode off)
7. Kytke paine sivulohkojen sylintereihin (sininen) niin, että lohkot painautuvat maata vasten ja painemittarissa näkyy seuraavalla sivulla olevan taulukon mukainen hydrauliikan paine. Nämä keskilohkon ja sivulohkojen välille saadaan oikea paine.

Siirto käyttöasennosta kuljetusasentoon

8. Contact on the control box for weight transfer protection activated (diode lights up)
9. Ensin sivulohkot nostetaan irti maasta paineistamalla lohkosylinterit (sininen).
10. Keskilohko nostetaan ja käännetään taaksepäin. Se lukitaan paineistamalla käänösylinteri (punainen).
11. Tämän jälkeen paineistetaan lohkosylinterit, jolloin sivulohkot kääntyvät eteen, vasten vetopuomissa olevia kuljetustukia.
12. Kun molemmat lohkot ovat samansuuntaiset vetopuomin kanssa, ne lasketaan alas kuljetustukien varaan vapauttamalla käänösylinterin (punainen) paine. Tämä toimenpide tehdään huolellisesti. Tärkeää: Mihinkään sylinteriin ei saa kytkeä painetta kuljetuksen aikana.
13. Contact on the control box for weight transfer protection de-activated (diode off)
Important: You must not pressurise any cylinders in transport position.

14. Paineet vapautuvat kaikista hydrauliikkaletkuista ja kone on valmiina kuljetukseen.



Asetukset ja säädöt

Painon siirto

Painon siirtoa säädetään riippuen jyrissä olevasta vesimääristä. Painon siirtoa säädetään kytkemällä hydrauliikkajärjestelmän (sininen) paine.

Paine on luettavissa koneen painemittarista.

| Waterlevel / Bar | 4,5 m | 6,3 m | 8,2 m |
|------------------|-------|-------|-------|
| 1/1 | 15 | 30 | 40-45 |
| 3/4 | 15 | 30 | 40-45 |
| 1/2 | 15 | 30 | 40-45 |
| 1/4 | 15 | 30 | 40-45 |

HUOM: Painonsiirtojärjestelmää voidaan kuormittaa enintään 100 bar paineella.

Olkihara

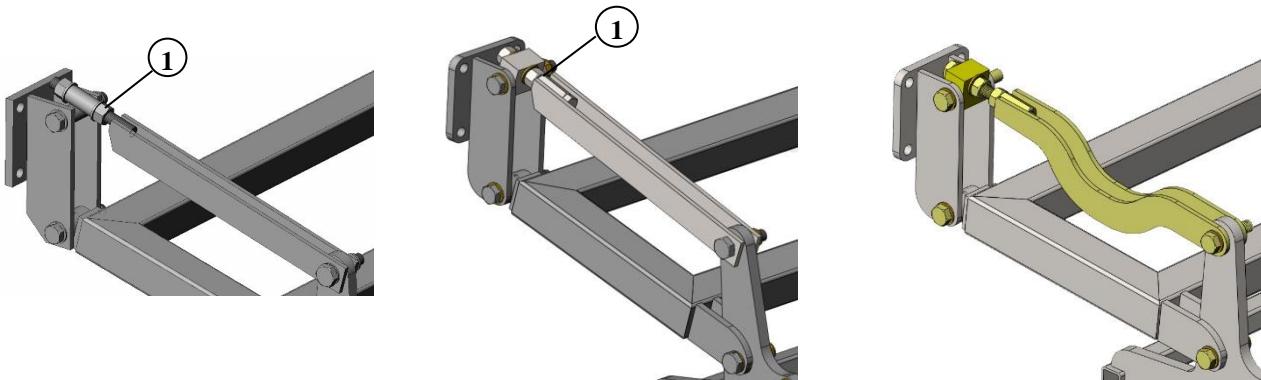
Olkiharaa nostetaan ja lasketaan vihreällä värellä merkityn hydrauliikan avulla.

Käytön aikana olkiharaa voidaan nostaa ja laskea tarpeen mukaan. On kuitenkin huomattava, ettei haraa saa käyttää liian syvällä, sillä se kantaa muuten osan jyrän painosta.

Suositeltava olkiharan käyttösyvyys: 25 mm jyrää syvemmällä.

Olkiharan pitää toimia vaaka-asennossa kun kone on käyttöasennossa. Tämä säädetään säätövarsilla, löysäämällä varsien mutterit ja kiristämällä vastakkaista puolta ①.

Piikit voivat kulua noin 200 mm. Joustavuus kuitenkin vähenee kulumisen myötä ja vaihto voi olla ajankohtainen aikaisemmin.



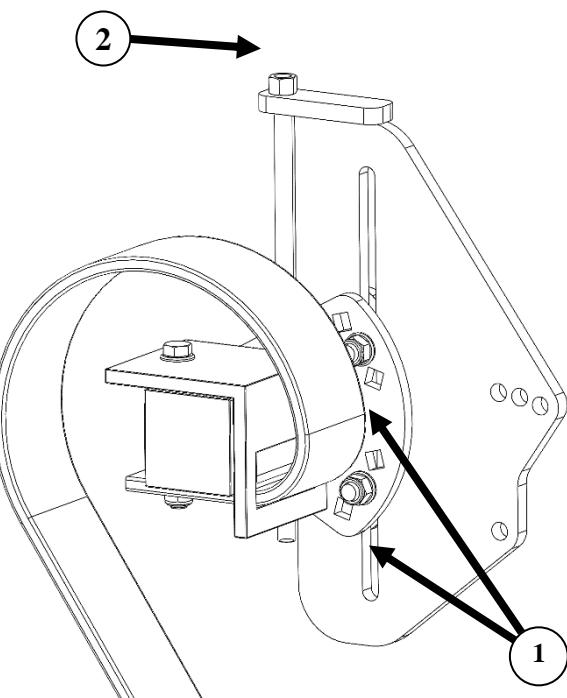
From machine number 341717



Tasauslata

The levelling board is raised in proportion to the wear and tear of the tines. This is performed by loosening 2 nuts (pos. 1), and hereafter screwing with a 19 mm spanner on the thread spindle (pos. 2), which determines the height. When the desired height is reached, the 2 nuts (pos. 1), are tightened again.

Be sure that all adjusters are set the same otherwise the levelling board will operate unevenly. This is easily done by measuring the length of the spindle.



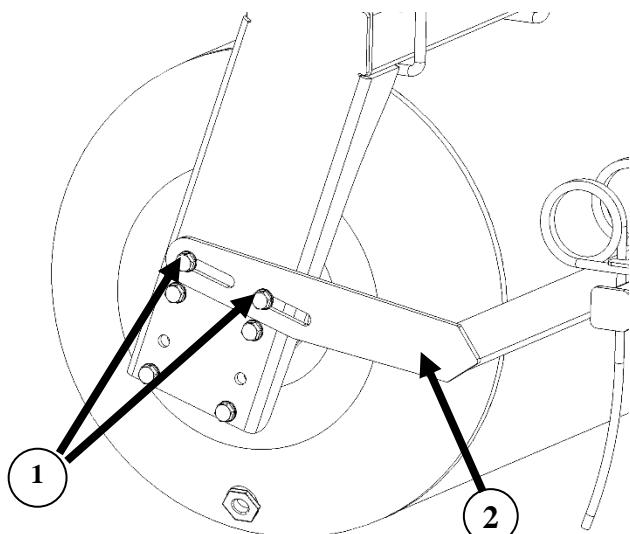
Jyrän kaavin

6.3 m

The scrapers are bolted on the end plates. In order to adjust the scraper bar loosen the 2 bolts (pos. 1) at the top and push the scraper bar (pos. 2) against the roller. Please be aware that the scraper bar is to be placed 5 – 10 mm from the roller.

8.2 m

The scrapers are adjusted in the same way as for 6.3 m. In the middle of the side sections 2 bolts are placed, which are to be loosened too.



Huolto

Voitelu

Tärkeää:

Noin 10 käyttötunnin välein pyörät, kuulalaakerit ja rajoitinrenkaat kiristetään. Letkut, liitokset ja sylinterit tarkistetaan, ettei niissä ole vuotoja. tarvittaessa tehdään kiristys.

Noin 10 käyttötunnin välein voidellaan kaikki sivulohkojen liikkuvat osat, kuten myös lohkosylinterien 3 voitelukohtaa. 30 käyttötunnin välein voidellaan keskilohkon nostosylinterin tapit ja vетоaisan 3 tappia.
Jyrän laakerit voidellaan 100 käyttötunnin välein ja/tai pesun jälkeen.

Tärkeää:

Hydrauliikkajärjestelmä on täytetty Hydro Texaco HD32 öljyllä.

Käyttökauden jälkeen jyrä puhdistetaan ja voidellaan rasvalla ja öljyllä.

Tärkeää:

Sylinterin mänänvarret voidellaan rasvalla ennen pitempiaikaista säilytystä.

Korjaukset

Korjauksessa käytetään ainoastaan HE-VA -alkuperäisosisia.



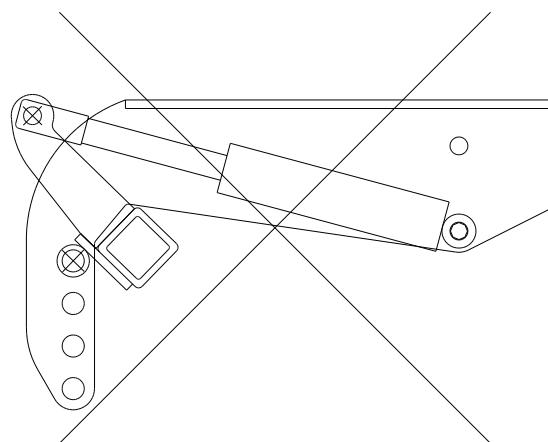
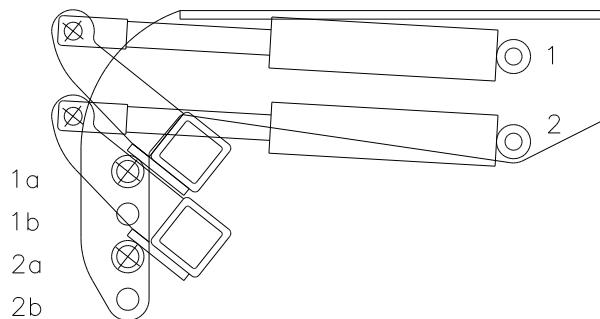
Jousilata

Jousilata vaatii yhden kaksitoimisen hydrauliikkaöljyn ulosoton. Jousien kulmaa ja tasaustehoa säädetään hydraulisesti traktorin ohjaamosta. Työsyvyyssä säädetään käsin. Jousiladan piikkien korkeutta voidaan säätää. Säädön seurauksena piikin kulma maata vasten muuttuu. Jouset toimivat toistaan riippumatta mutta ne voidaan myös lukita yhteen tangon avulla (lisävaruste) jos ladalta vaaditaan parempaa tasausomaisuutta. Muutos tehdään helposti ja nopeasti ilman työkaluja.

Jousiladan sylinterin asennus

Sylinterit on asennettu alla esitettyllä tavalla. On tärkeää, että sylinterit asennetaan oikein niin, että sylintereihin kohdistuva momentti on oikea.

Jousiladan sylinterit asennetaan reikiin 2 ja 2 b. Sen lisäksi jousiladan piikkien kärjet sijoitetaan aivan alas, jolloin ne on kiinnitetty pulteilla alempiin reikiin.

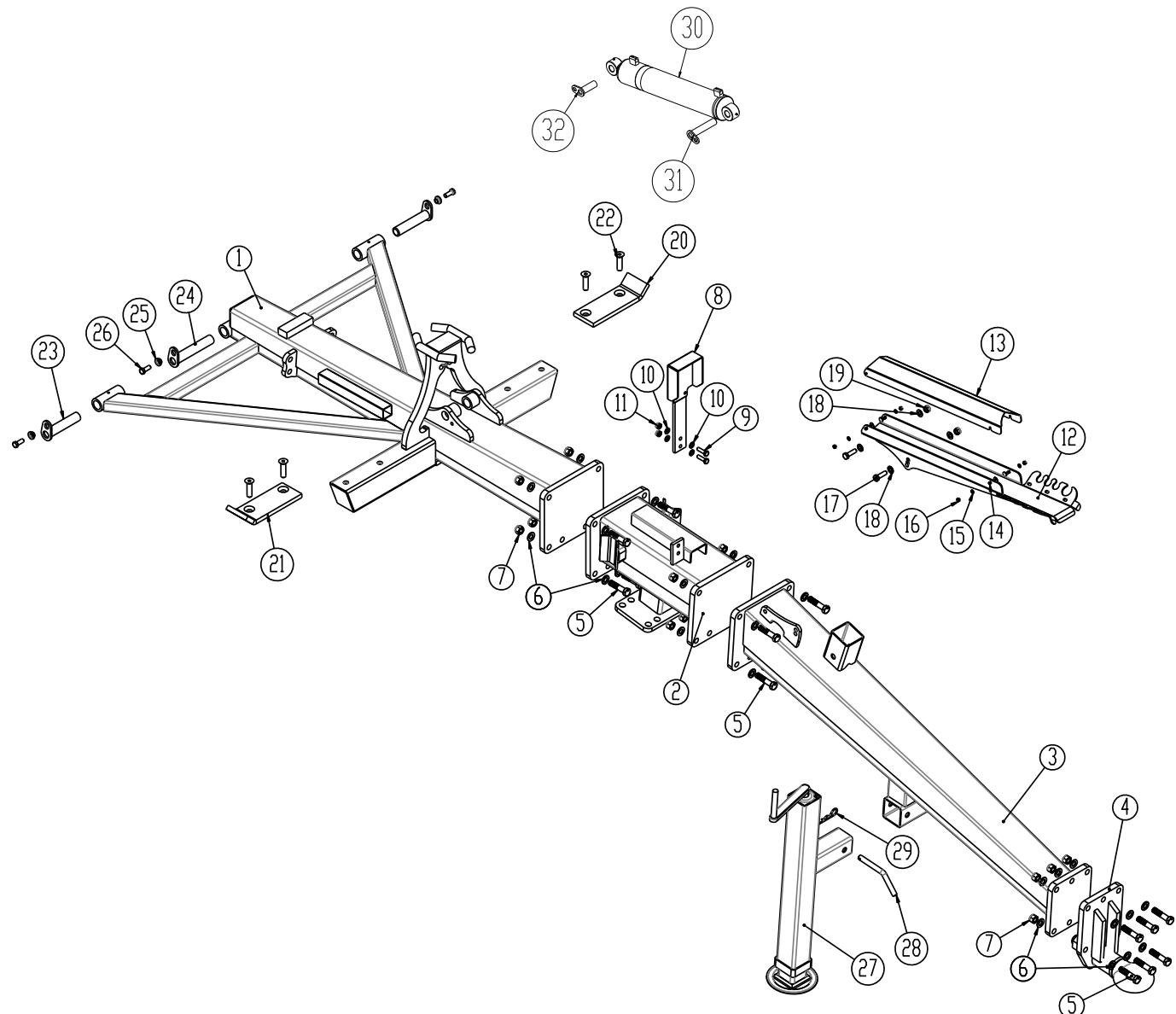


Spare parts list (Roller)

How to read the Spare parts list

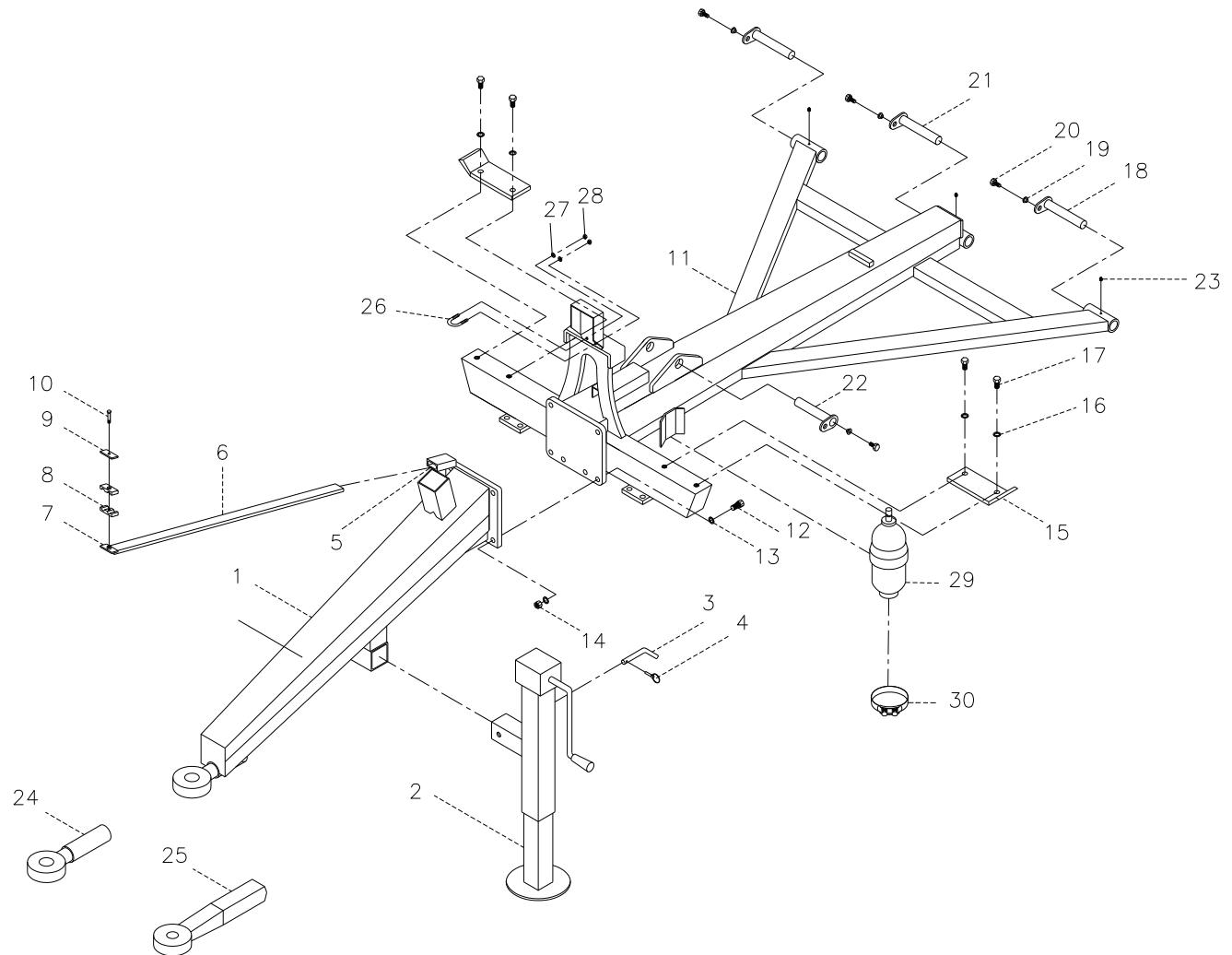
The exploded drawings are always ahead of the belonging parts table. Pay attention to some part tables which are continued to the next page. Also, some drawings are on two pages, one after the other.

Front - and back drawbar 4,5 m



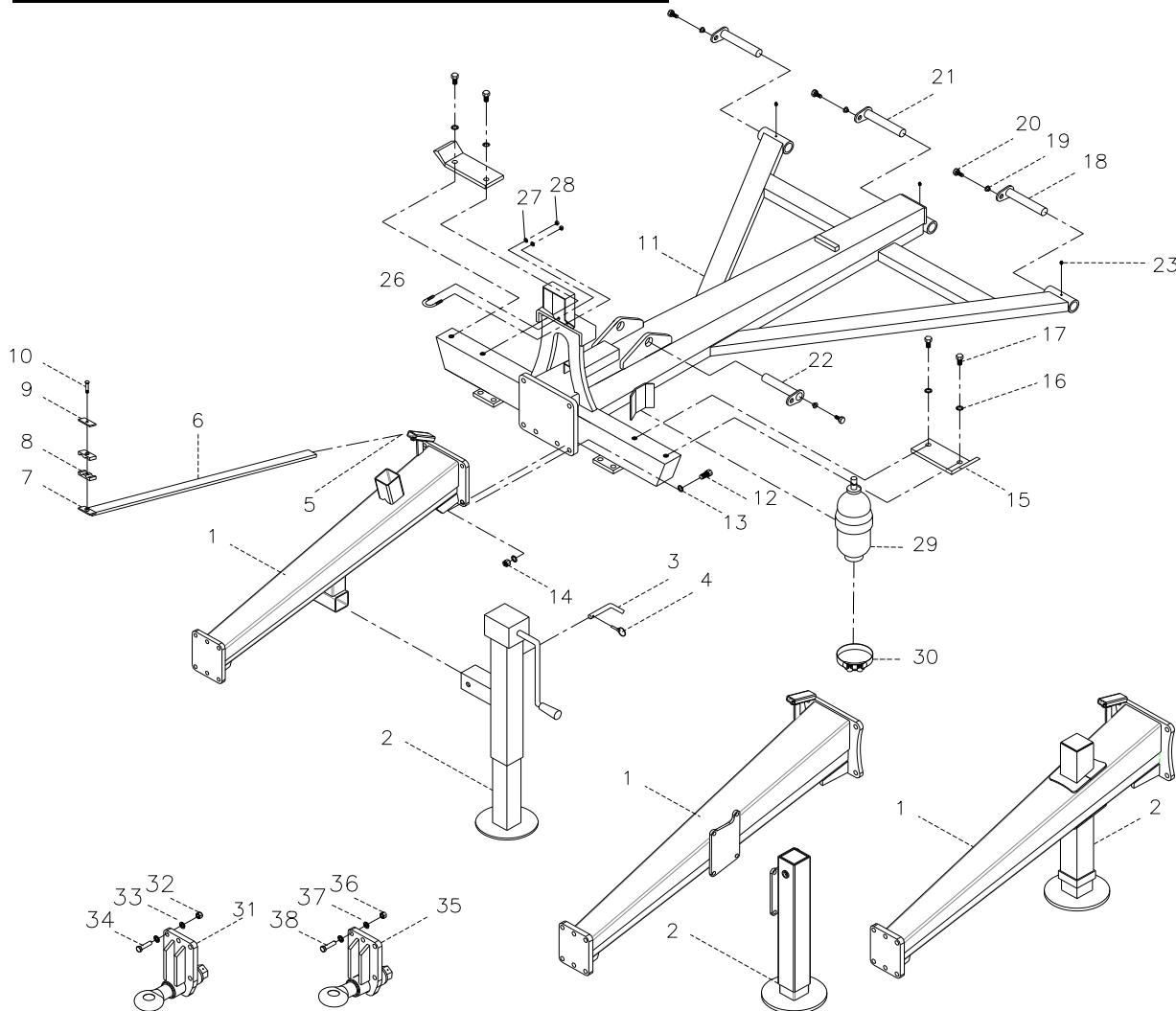
| Pos. | Item no. | Designation | 4,5m |
|------|-----------|-----------------------------------|------|
| 1 | 630536200 | Back drawbar | 1 |
| 2 | 630286135 | Drawbar extension 500 mm | 1 |
| 3 | 630757032 | Drawbar | 1 |
| 4 | 630757028 | Towing eye complete | 1 |
| 5 | 690103130 | Bolt M16x70 10.9 | 18 |
| 6 | 0272290 | Facet washer Ø16 DIN 125B | 36 |
| 7 | 0264090 | Self-locking nut M16 | 18 |
| 8 | 630941066 | Manometer holder | 1 |
| 9 | 0235060 | Set bolt M10x35 8.8 | 2 |
| 10 | 0272260 | Facet washer Ø10 DIN 125B | 4 |
| 11 | 0264060 | Self-locking nut M10 | 2 |
| 12 | 7345001 | Hose parking main part | 1 |
| 13 | 7345003 | Hose parking upper part | 1 |
| | 7345010 | Hose parking complete | |
| 14 | 0246060 | Carriage bolt M6x16 Fzb DIN 603 | 4 |
| 15 | 0272240 | Facet washer Ø6 Fzb | 4 |
| 16 | 0264040 | Self-locking nut M6 | 4 |
| 17 | 0235360 | Set bolt M12x40 8.8 | 2 |
| 18 | 0272270 | Facet washer Ø12 Fzb DIN 125B | 4 |
| 19 | 0264070 | Self-locking nut M12 | 2 |
| 20 | 630762045 | Transport bracket left | 1 |
| 21 | 630762048 | Transport bracket right | 1 |
| 22 | 0229000 | Bolt M16x60 countersink DIN 7991 | 4 |
| 23 | 69430140G | Pin Ø30 L=140 | 2 |
| 24 | 69430170G | Pin Ø30 L=170 | 1 |
| 25 | 630532600 | Lock bushing for pinhead | 2 |
| 26 | 0235340 | Bolt M12x30 8.8 Fzb | 3 |
| 27 | 690141095 | Support leg | 1 |
| 28 | 69216094A | Pin Ø16 L=94 | 1 |
| 29 | 0377400 | R-clip Ø4 | 1 |
| 30 | 690200109 | Tip-Cylinder 100/50x600 Hydraflex | 1 |
| | 690200284 | Gasket set 100/50 Hydraflex | |
| 31 | 69430150G | Pin Ø30 L=150 | 1 |
| 32 | 69430090G | Pin Ø30 L=90 | 1 |



Front and rear drawbar 6,3 - 8,2m before May 2010, before machine no. 341713

| Pos. | Item no. | Designation | 6.3m | 8.2m |
|------|-----------|---------------------------------------|------|------|
| 1 | 630771010 | Front drawbar (Danish) | 1 | 0 |
| 1 | 630831000 | Front drawbar (Danish) | 0 | 1 |
| 2 | 690141102 | Supporting leg 6000 kg | 1 | 1 |
| 3 | 69516094A | Pin Ø16 L=94 | 1 | 1 |
| 4 | 690133005 | R-clip Ø4 | 1 | 1 |
| 5 | 690103075 | Bolt M10x25 | 1 | 1 |
| 6 | 630771200 | Parking device for hose | 1 | 1 |
| 7 | 690210212 | Welding plate for tube-support double | 1 | 1 |
| 8 | 690210210 | Tube-support double Ø14/Ø14 | 2 | 2 |
| 9 | 690210211 | Top plate for tube-support double | 1 | 1 |
| 10 | 690210213 | Screw for tube-support double | 1 | 1 |
| 11 | 630327110 | Back drawbar | 1 | 0 |
| 11 | 630347500 | Back drawbar | 0 | 1 |
| 12 | 690103190 | Bolt M16x65 | 1 | 0 |
| 12 | 690103173 | Bolt M20x70 10.9 | 0 | 1 |
| 13 | 0272290 | Facet plate Ø16 | 1 | 0 |
| 13 | 0272310 | Facet plate Ø20 | 0 | 1 |
| 14 | 0264090 | Self-locking nut M16 | 1 | 1 |
| 14 | 0264110 | Self-locking nut M20 | 0 | 1 |
| 15 | 630762045 | Transport bracket, left | 1 | 1 |
| 15a | 630762048 | Transport bracket, right | 1 | 1 |
| 16 | 690119008 | Spring washer Ø16 | 2 | 2 |
| 17 | 690103127 | Bolt M16x50 | 2 | 2 |
| 18 | 69435175G | Pin Ø35 L=175 | 2 | 2 |
| 19 | 630532600 | Lock-bush for pin head | 4 | 4 |
| 20 | 690101101 | Bolt M12x25 | 4 | 4 |
| 21 | 69435185G | Pin Ø35 L=185 | 1 | 1 |
| 22 | 69435175G | Pin Ø35 L=175 | 1 | 1 |
| 23 | 0432510 | Lubricating nipple M8 | 3 | 3 |
| 24 | 690141211 | Towing eye (Danish) | 1 | 1 |
| 25 | 690105003 | Towing eye (German) | 1 | 1 |
| 26 | 690110003 | U-bolt M8x60xØ35 | 1 | 1 |
| 27 | 0272250 | Facet plate ø8 | 2 | 2 |
| 28 | 0264050 | M8 Self-locking nut | 2 | 2 |
| 29 | 690206403 | Accumulator H700R 15 bar | 1 | 1 |
| 29a | 690206410 | Accumulator H700R 40 bar | 1 | 1 |
| 30 | 690206511 | Clamp for accumulator | 2 | 2 |



Front drawbar from june 2010 Machine no. 341713


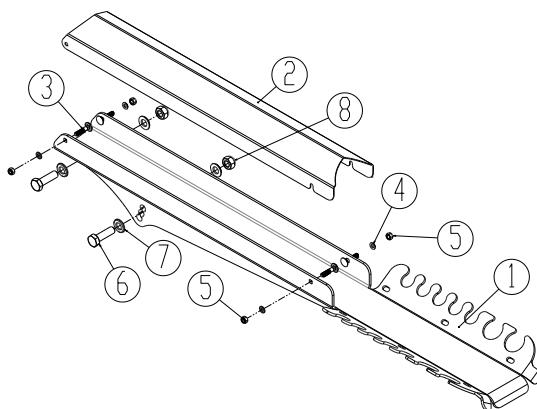
| Pos. | Item no. | Designation | 6,3m | 8,2m |
|------|-----------|------------------------------------------------------------------------------------|------|------|
| 1 | 630771000 | Front drawbar | 1 | 0 |
| 1 | 630771020 | Front drawbar from machine number 344524 | 1 | |
| 1 | 630831015 | Front drawbar from machine number 341713 | 0 | 1 |
| 1 | 630831021 | Front drawbar w/centre mounted supporting leg from machine number 342015 | | 1 |
| 1 | 630831027 | Front drawbar w/centre mounted supporting leg from serial no. 359540 | | 1 |
| 2 | 690141102 | Supporting leg 6000 kg | 1 | 1 |
| 2 | 690141099 | Supporting leg hydraulic from machine number 341713 | | 1 |
| 2 | 690141098 | Supporting leg hydraulic from machine number 342015 | | 1 |
| 2 | 690141109 | Supporting leg hydraulic from serial no. 359540 | | 1 |
| 3 | 69516094A | Pin Ø16 L=94 | 1 | 1 |
| 4 | 0377400 | R-clip Ø4 | 1 | 1 |
| 5 | 690103075 | Bolt M10x25 | 1 | 1 |
| 6 | 630771200 | Parking device for hose | 1 | 1 |
| 7 | 690210212 | Welding plate for tube-support double | 1 | 1 |

The tabel continues →

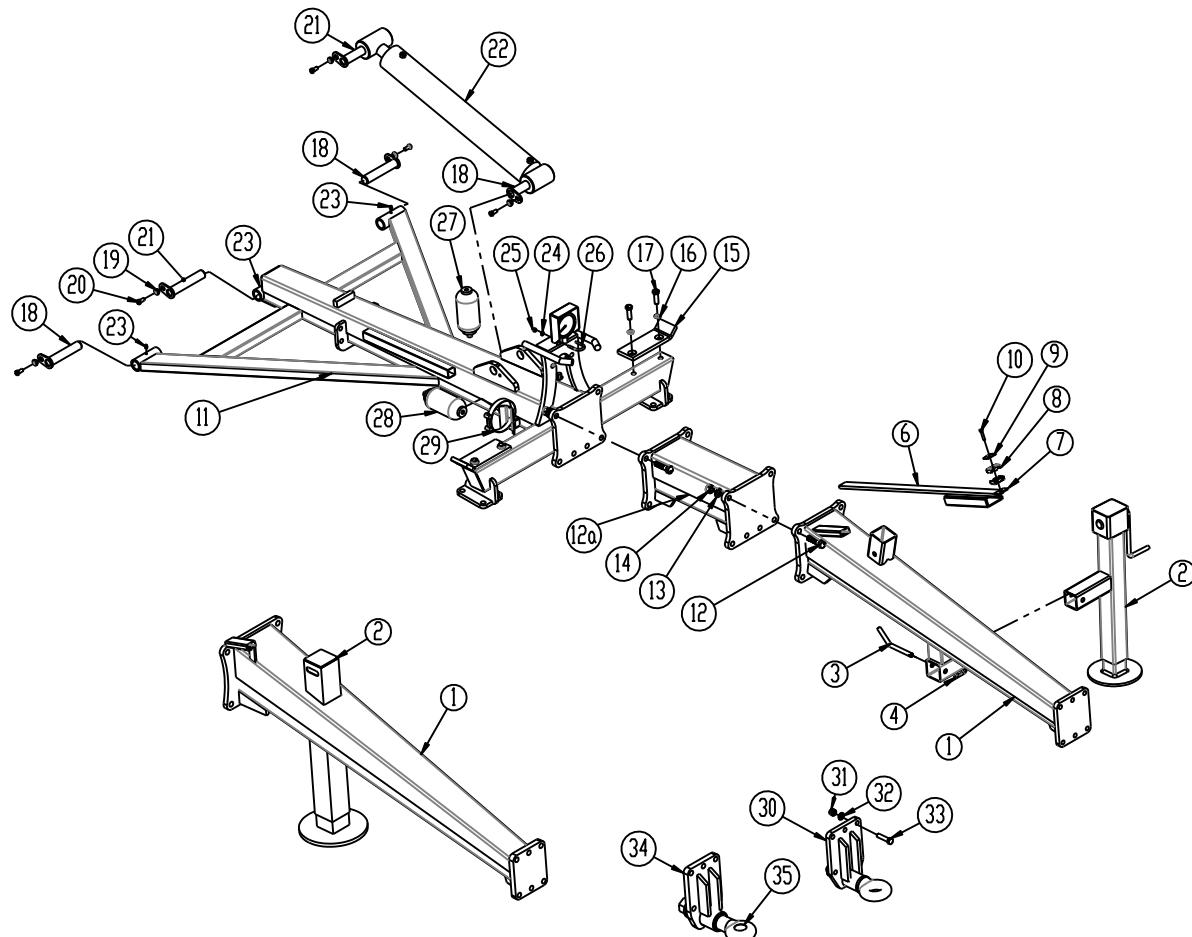


| | | | | |
|-----|-----------|----------------------------------------|----|----|
| 8 | 690210210 | Tube-support double Ø14/Ø14 | 2 | 2 |
| 9 | 690210211 | Top plate for tube-support double | 1 | 1 |
| 10 | 690210213 | Screw for tube-support double | 1 | 1 |
| 11 | 630327110 | Back drawbar | 1 | 0 |
| 11 | 630327515 | Back drawbar | 1 | 0 |
| 11 | 630347500 | Back drawbar | 0 | 1 |
| 12 | 0235851 | Bolt M16x65 10.9 | 6 | 0 |
| 12 | 690103173 | Bolt M20x70 10.9 | 6 | |
| 12 | 690103173 | Bolt M20x70 10.9 | 0 | 6 |
| 13 | 0272290 | Facet plate Ø16 | 12 | 0 |
| 13 | 0272310 | Facet plate Ø20 | 12 | |
| 13 | 0272310 | Facet plate Ø20 | 0 | 12 |
| 14 | 0264090 | Self-locking nut M16 | 6 | 6 |
| 14 | 0264110 | Self-locking nut M20 | 6 | |
| 14 | 0264110 | Self-locking nut M20 | 0 | 1 |
| 15 | 630762045 | Transport bracket, left | 1 | 1 |
| 15a | 630762048 | Transport bracket, right | 1 | 1 |
| 16 | 690119008 | Spring washer Ø16 | 2 | 2 |
| 17 | 690103127 | Bolt M16x50 | 2 | 2 |
| 18 | 69435175G | Pin Ø35 L=175 | 2 | 2 |
| 19 | 630532600 | Lock-bush for pin head | 4 | 4 |
| 20 | 690101101 | Bolt M12x25 | 4 | 4 |
| 21 | 69435185G | Pin Ø35 L=185 | 1 | 1 |
| 22 | 69435175G | Pin Ø35 L=175 | 1 | 1 |
| 23 | 0432510 | Lubricating nipple M8 | 3 | 3 |
| 26 | 690110003 | U-bolt M8x60xØ35 | 1 | 1 |
| 27 | 0272250 | Facet plate ø8 | 2 | 2 |
| 28 | 0264050 | M8 Self-locking nut | 2 | 2 |
| 29 | 690206403 | Akkumulator H700R 15 bar | 1 | 1 |
| 29a | 690206410 | Akkumulator H700R 40 bar | 1 | 1 |
| 30 | 690206511 | Clamp for accumulator | 2 | 2 |
| 31 | 630757028 | Drawbar complete Ø50 pivotal M16 bolte | 1 | 0 |
| 31a | 690141211 | Towing eye Ø50 pivotal M16 bolte | 1 | |
| 32 | 0264090 | Self-locking nut M16 | 6 | 0 |
| 33 | 0272290 | Facet plate Ø16 | 12 | 0 |
| 34 | 0235851 | Bolt M16x65 10.9 | 6 | 0 |
| 35 | 630757017 | Drawbar complete Ø50 pivotal M20 bolte | 0 | 1 |
| 35a | 690105006 | Towing eye Ø50 pivotal M20 bolte | | 1 |
| 36 | 0272310 | Self-locking nut M20 | 0 | 6 |
| 37 | 690113011 | Facet plate Ø20 | 0 | 12 |
| 38 | 690103069 | Bolt M20x80 10.9 | 0 | 6 |



Hose parking from may 2016

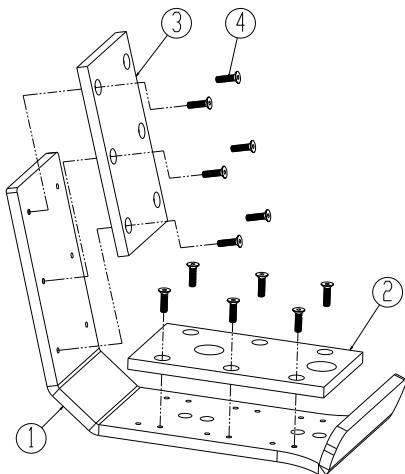
| Pos. | Item no. | Designation | 6.3-8,2m |
|------|----------|---------------------------------|----------|
| 1 | 7345006 | Hose parking large model | 1 |
| 2 | 7345003 | Hose parking upper part | 1 |
| 3 | 0246060 | Carriage bolt M6x16 Fzb DIN 603 | 4 |
| 4 | 0272240 | Faceted washer Ø6 Fzb | 4 |
| 5 | 0264040 | Self-locking nut M6 | 4 |
| 6 | 0235360 | Set bolt M12x40 8.8 | 2 |
| 7 | 0272270 | Faceted washer Ø12 Fzb DIN 125B | 4 |
| 8 | 0264070 | Self-locking nut M12 | 2 |

Front- and back drawbar, From machine no. 347534

| Pos. | Item no. | Designation | 6.3m | 8.2m |
|------|-----------|-----------------------------------------------------------------------------|------|------|
| 1 | 630771020 | Front drawbar | 1 | 0 |
| 1 | 630831021 | Front drawbar | 0 | 1 |
| 1 | 630831027 | Front drawbar w/centre mounted supporting leg from serial no. 359540 | | 1 |
| 2 | 690141102 | Supporting leg 6000 kg | 1 | 0 |
| 2 | 690141098 | Supporting leg, Hydraulic | 0 | 1 |
| 2 | 690141109 | Supporting leg, Hydraulic from serial no. 359540 | | 1 |
| 3 | 69516094A | Pin Ø16 L=94 | 1 | 1 |
| 4 | 0377400 | R-clip Ø4 | 1 | 1 |
| 5 | 690103075 | Bolt M10x25 | 1 | 1 |
| 6 | 630771200 | Parking device for hose | 1 | 1 |
| 7 | 690210212 | Welding plate for tube-support double | 1 | 1 |
| 8 | 690210210 | Tube-support double Ø14/Ø14 | 2 | 2 |
| 9 | 690210211 | Top plate for tube-support double | 1 | 1 |
| 10 | 690210213 | Screw for tube-support double | 1 | 1 |
| 11 | 630330001 | Back drawbar From serial no. 347070 | 1 | 0 |
| 11 | 630367136 | Back drawbar, From serial no. 347534 | 0 | 1 |
| 12 | 690103173 | Bolt M20x70 10.9 | 12 | 12 |
| 12a | 690779020 | Drawbar extension 500mm | 1 | 1 |
| 13 | 0272310 | Faceted washer Ø20 | 12 | 12 |
| 14 | 0264110 | Self-locking nut M20 | 12 | 12 |
| 15 | 630762045 | Transport bracket Right | 1 | 1 |
| 15 | 630762048 | Transport bracket Left | 1 | 1 |
| 16 | 690119008 | Spring washer Ø16 | 2 | 2 |
| 17 | 690103127 | Bolt M16x50 | 2 | 2 |
| 18 | 69435175G | Pin Ø35 L=175 | 3 | 3 |
| 19 | 630532600 | Lock-bush for pin head | 5 | 5 |
| 20 | 690101101 | Bolt M12x25 8.8 | 5 | 5 |
| 21 | 69435185G | Pin Ø35 L=185 | 2 | 2 |
| 22 | 690200020 | Tip cylinder Ø100/50 x 700 mm, Ø35 mm Replaced by 690200310 | 1 | |
| | 690200285 | Gasket set 100/50mm, Laizhou | | |
| 22 | 690200310 | Tip cylinder Ø110/50x700 mm, Ø35/Ø35 mm | 1 | |
| | 690200311 | Gasket set 110/50, Laizhou | | |
| 22 | 690200315 | Tip cylinder Ø110/60 x 1000 mm, Ø35/Ø35 mm | | 1 |
| | 690200316 | Gasket set 110/60, Laizhou | | |
| 23 | 0432510 | Lubricating nipple M8 | 3 | 3 |
| 24 | 690110003 | U-bolt M8x60xØ35 | 1 | 1 |
| 25 | 0272250 | Facet plate ø8 | 2 | 2 |
| 26 | 0264050 | Self-locking nut M8 | 2 | 2 |
| 27 | 690206403 | Accumulator H700R 15 bar | 1 | 1 |
| 28 | 690206410 | Accumulator H700R 40 bar | 1 | 1 |
| 29 | 690206511 | Clamp for accumulator | 2 | 2 |
| 30 | 630757028 | Towing eye complete Ø50, turnable, M16 bolts | 1 | |
| 31 | 0264090 | Self-locking nut M16 | 6 | |
| 31 | 0264110 | Self-locking nut M20 | | 6 |
| 32 | 0272290 | Facet washer Ø16 | 12 | |
| 32 | 0272310 | Facetwasher Ø20 | | 12 |
| 33 | 0235851 | Bolt M16x65 10.9 | 6 | |
| 33 | 690103173 | Bolt M20x70 10.9 | | 6 |
| 34 | 630757017 | Towing eye complete, Ø50, turnable, heavy duty, M20 bolte | | 1 |
| 35 | 690141211 | Towing eye Ø50, turnable, heavy duty | | 1 |

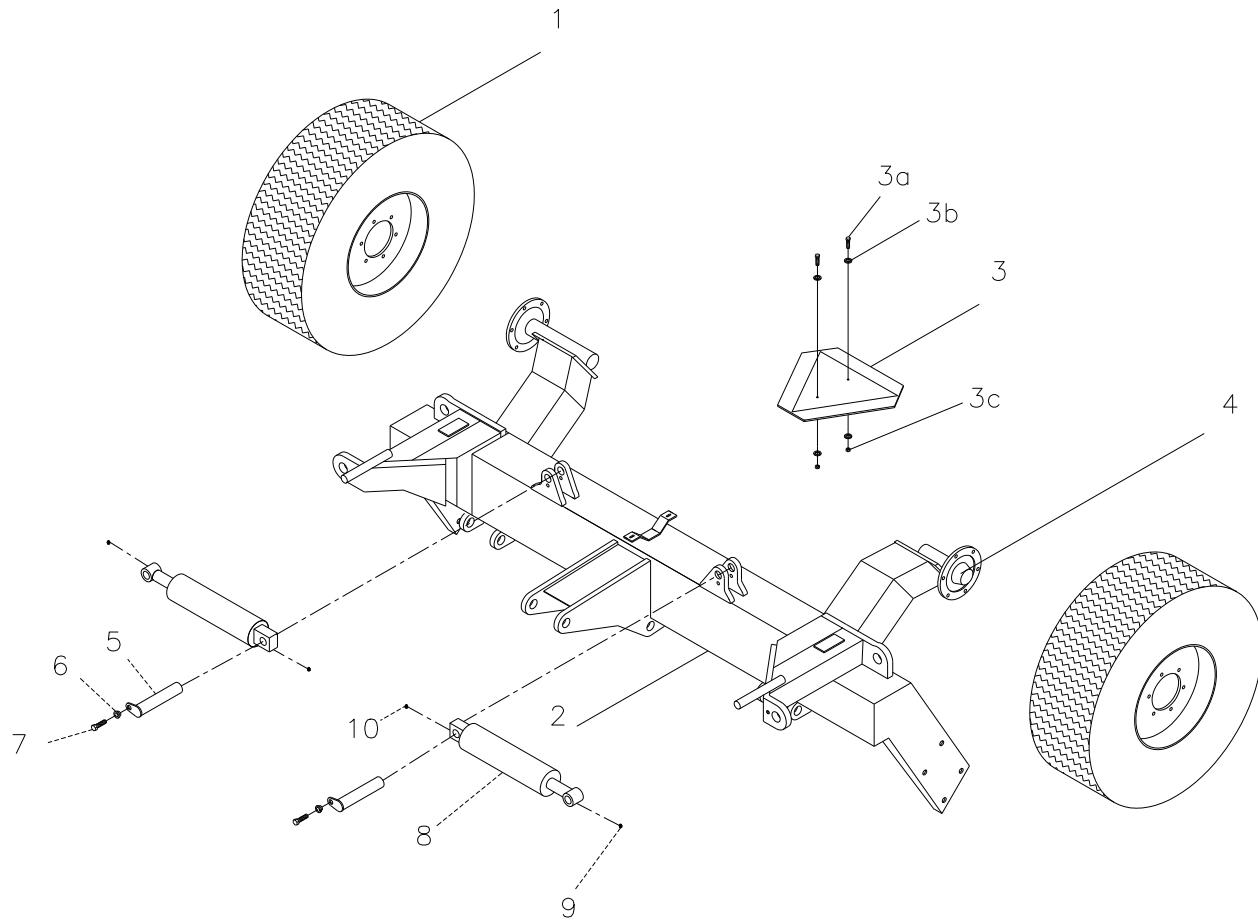


Transport bracket, only when Starrings are mounted, all models



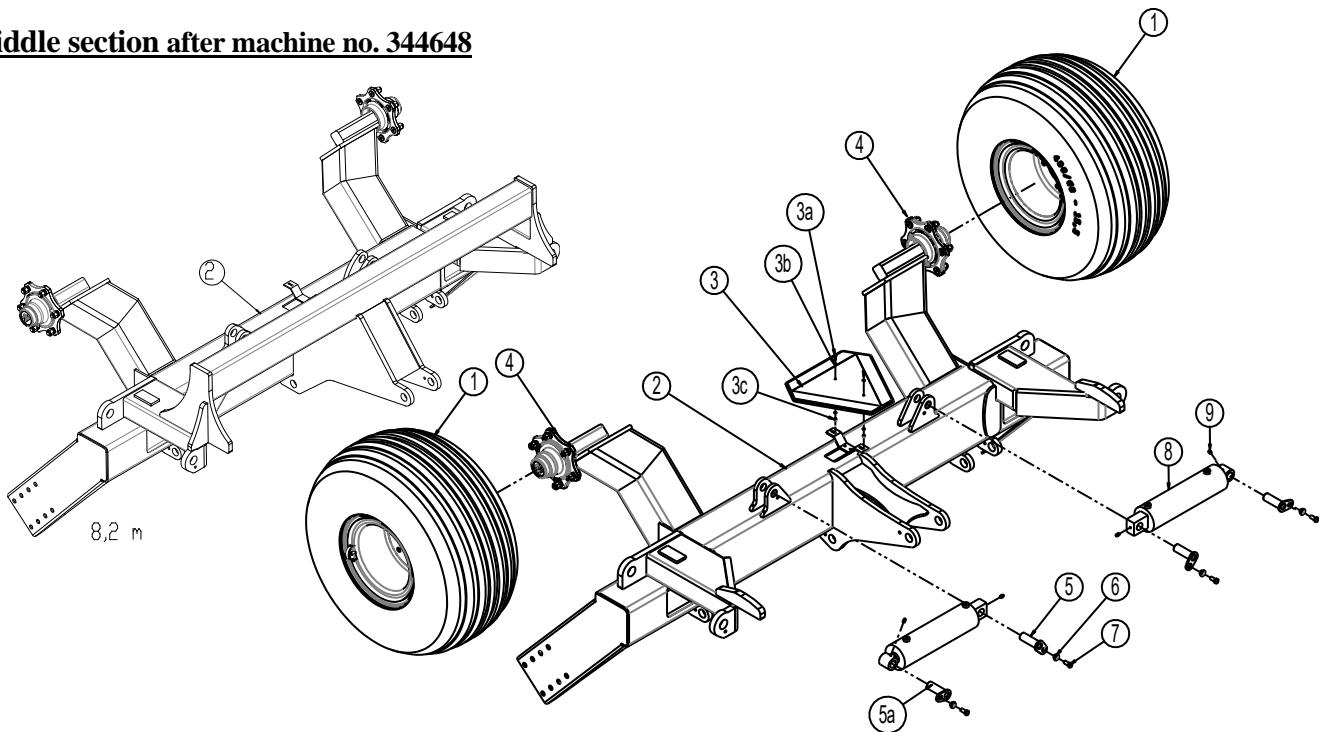
| Pos. | Item no. | Designation | Qty. |
|------|----------|------------------------------------------|------|
| 1 | 1210334 | Transport bracket | 2 |
| 2 | 1210333 | Plastic PEHD-300 15 mm black, horizontal | 2 |
| 3 | 1210336 | Plastic PEHD-300 15 mm black, vertical | 2 |
| 4 | 0228032 | Bolt countersunk M8x30 8.8 fzb DIN 7991 | 24 |

Middle section before machine 344648



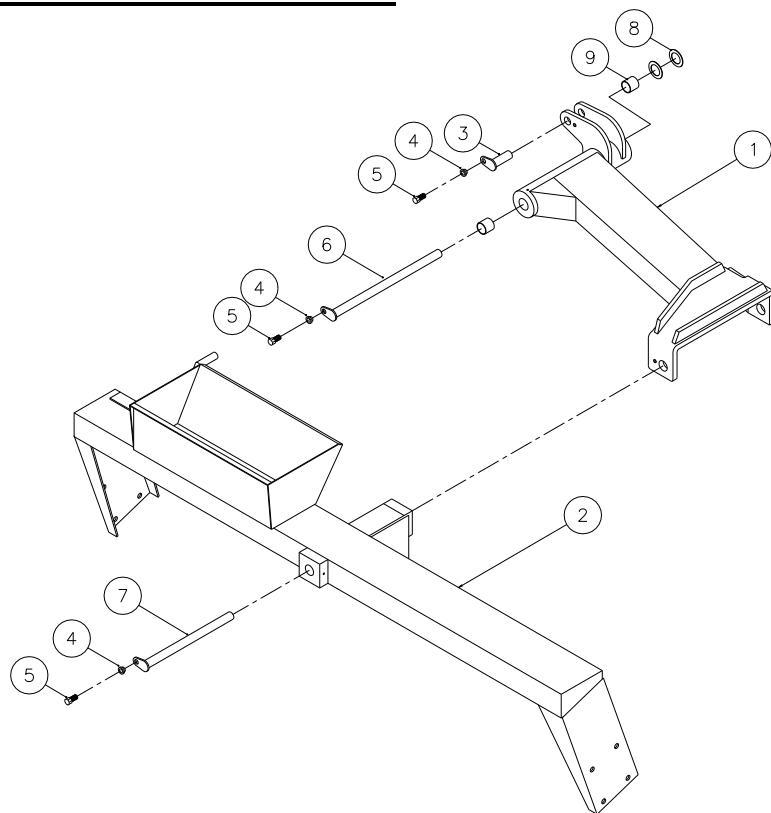
| Pos. | Item no. | Designation | 4,5m | 6.3m | 8.2m |
|------|-----------|-----------------------------------------------------------|------|------|------|
| 1 | 690141310 | Wheel 10.0/75x15,3-10 ply | 2 | | |
| 1 | 690141335 | Wheel 400 / 60 x 15,5 14 ply | | 2 | 2 |
| 2 | 630536300 | Middle section From machine no. 347231 | 1 | | |
| 2 | 630327100 | Middle section | | 1 | |
| 2 | 630347600 | Middle section | | | 1 |
| 2 | 630347602 | Middle section From machine no. 344648 | | | 1 |
| 3 | 0521010 | Warning triangle | 1 | 1 | 1 |
| 3a | 0233860 | Bolt M5x20 | 2 | 2 | 2 |
| 3b | 0272230 | Faceted washer Ø5 | 4 | 4 | 4 |
| 3c | 0264030 | Self-locking nut M5 | 2 | 2 | 2 |
| 4 | 690141025 | Hub 1700 kg - TVZ, see cover at hub for identification | 2 | | |
| 4 | 0395440 | Hub 1700 kg - He-va, see cover at hub for identification | 2 | | |
| 4 | 690141030 | Hub 2500 kg. - TVZ, see cover at hub for identification | | 2 | 2 |
| 4 | 0395442 | Hub 2500 kg. - He-va, see cover at hub for identification | | 2 | 2 |
| 4 | 7297579 | Nav m/bremse 3700 kg TVZ | | 2 | 2 |
| 4a | 690141039 | Hub bolt M18x1,5x49 | 12 | 12 | 12 |
| 4b | 690141055 | Hub nut M18 | 12 | 12 | 12 |
| 4f | 690141314 | Hub cover ø78 1700 kg hub - TVZ see cover for identif. | 2 | | |
| 4f | 0395436 | Hub cover ø78 1700 kg hub - He-va see cover for identif. | 2 | | |
| 4f | 690141033 | Hub cover ø80 2500 kg hub - TVZ see cover for identif. | | 2 | 2 |
| 4f | 0395437 | Hub cover ø88 2500 kg hub - He-va see cover for identif. | | 2 | 2 |
| 5 | 69430090G | Pin ø30 L=90 | 1 | | |
| 5 | 69430100G | Pin ø30 L=100 | | 2 | 2 |
| 6 | 630532600 | Lock bush for pin head | 1 | 2 | 2 |
| 7 | 690101101 | Bolt M12x25 | 1 | 2 | 2 |
| 8 | 630286167 | Traverse cylinder ø70/ø40-600 (not shown) | 1 | | |
| 8a | 690200068 | Gasket set 70/40 mm Laizhou | | | |
| 8 | 630762047 | Traverse cylinder 90/40 - 280 | | 2 | |
| 8a | 690200274 | Gasket set 90/40 | | | |
| 8 | 690200340 | Traverse cylinder 100/40 x 285 | | | 2 |
| 8a | 690200290 | Gasket set 100/40 | | | |
| 9 | 0432100 | Lubricating nipple M6 | | 2 | 2 |
| 10 | 0432510 | Lubricating nipple M8 | | 2 | 2 |



Middle section after machine no. 344648

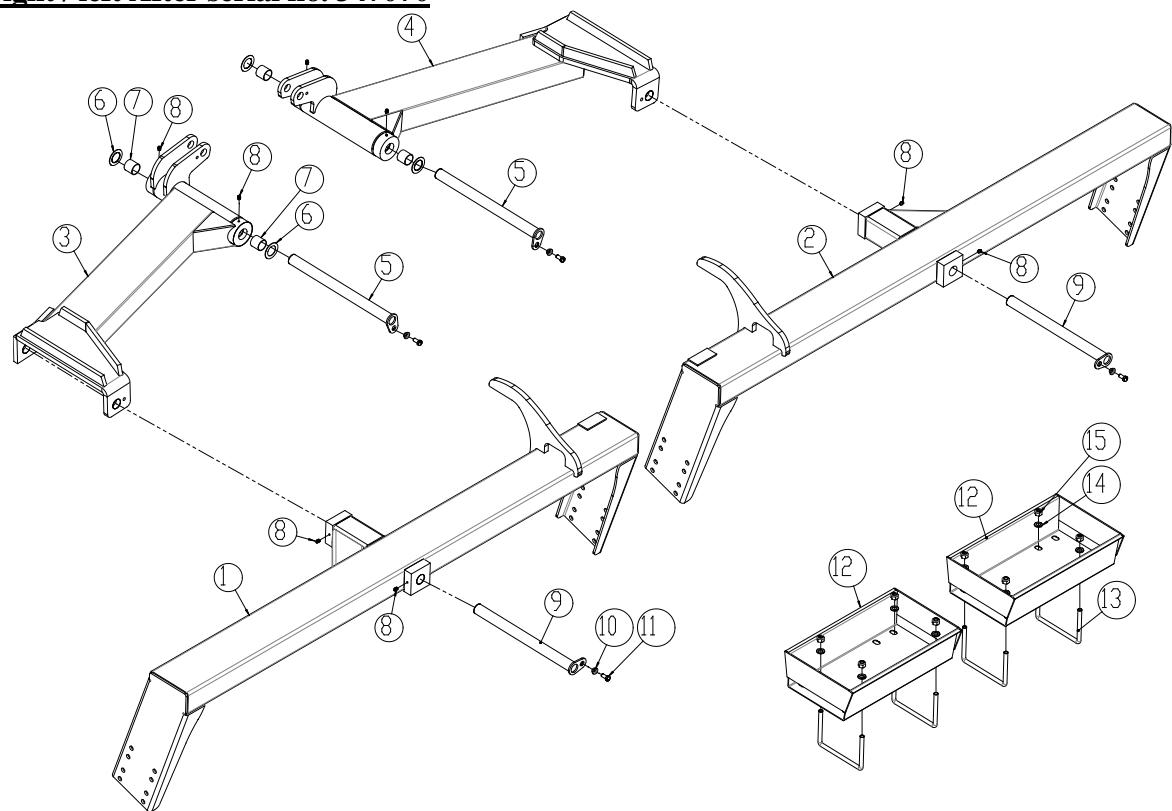
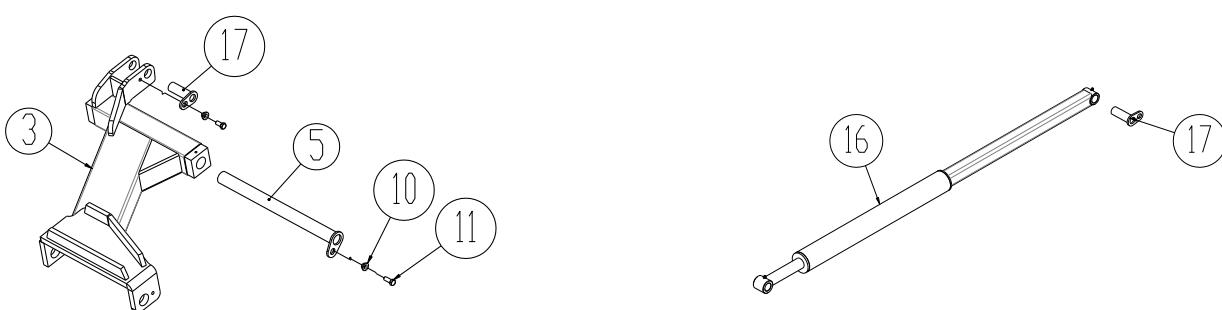
| Pos. | Item no. | Designation | 6,3m | 8,2m |
|------|-----------|-----------------------------------------------------------|------|------|
| 1 | 690141335 | Wheel 400 / 60 x 15,5 14 PLY | 2 | 2 |
| 2 | 630330065 | Middle section | 1 | |
| 2 | 630347602 | Middle section | | 1 |
| 2 | 630327615 | Middle section with brake | 1 | 0 |
| 2 | 1200847 | Middle section with brake | 0 | 1 |
| 3 | 0521010 | Warning triangle | 1 | 1 |
| 3a | 0233860 | Bolt M5x20 | 2 | 2 |
| 3b | 0272230 | Facet washer Ø5 | 4 | 4 |
| 3c | 0264030 | Safety nut M5 | 2 | 2 |
| 4 | 690141030 | Hub 2500 kg. - TVZ, see cover at hub for identification | 2 | 2 |
| 4 | 0395442 | Hub 2500 kg. - He-va, see cover at hub for identification | 2 | 2 |
| 4 | 7297579 | Hub with brake 3700 kg TVZ | 2 | 2 |
| 4 | 690141044 | Hub with brake 4500 kg - TVZ | 2 | 2 |
| 4a | 690141039 | Hub bolt M18x1,5x49 | 12 | 12 |
| 4b | 690141055 | Hub nut M18 | 12 | 12 |
| 4f | 690141033 | Hub cap ø80 (2500 kg hub) - TVZ see cover for identif. | 2 | 2 |
| 4f | 0395437 | Hub cover ø88 2500 kg hub - He-va see cover for identif. | 2 | 2 |
| 5 | 69430090G | Pin Ø30 L=90 | 2 | |
| 5a | 69430090G | Pin Ø30 L=90 | 2 | |
| 5 | 69435100G | Pin Ø35 L=100 | | 2 |
| 5a | 69435105G | Pin Ø35 L=105 | | 2 |
| 6 | 630532600 | Lock bush for pin head | 2 | 2 |
| 7 | 690101101 | Bolt M12x25 | 2 | 2 |
| 8 | 630762047 | Traverse cylinder 90/40 – 280 | 2 | |
| 8a | 690200274 | Gasket set 90/40 | | |
| 8 | 690200340 | Traverse cylinder 100/40x285 Ø35/Ø35 | | 2 |
| 8a | 690200290 | Gasket set 100/40 | | |
| 9 | 690136029 | Lubricating nipple M8 | 2 | 2 |



Wing & side section before serial no: 347070

| Pos. | Item no. | Designation | 6.3m | 8.2m |
|------|-----------|-------------------------------------------------------|------|------|
| 1 | 630773000 | Wing suspension right | 1 | |
| 1 | 630773100 | Wing suspension left | 1 | |
| 1 | 630347710 | Wing suspension right Before serial no. 344648 | | 1 |
| 1 | 630347712 | Wing suspension right After serial no. 344648 | | 1 |
| 1 | 630347700 | Wing suspension left Before serial no. 344648 | | 1 |
| 1 | 630347702 | Wing suspension left After serial no. 344648 | | 1 |
| 2 | 630774000 | Wing section right Before serial no. 347070 | 1 | |
| 2 | 630774100 | Wing section left Before serial no. 347070 | 1 | |
| 2 | 630347810 | Wing section right Before serial no. 347070 | | 1 |
| 2 | 630347800 | Wing section left Before serial no. 347070 | | 1 |
| 3 | 69430090G | Pin ø30 L=90 | 2 | 2 |
| 4 | 630532600 | Lock bush for pin head | 6 | 6 |
| 5 | 0235330 | Bolt M12x25 | 6 | 6 |
| 6 | 69440525G | Pin ø40 L=525 | 2 | 2 |
| 7 | 69440508G | Pin ø40 L=508 | 2 | |
| 7 | 69440550G | Pin ø40 L=550 | | 2 |
| 8 | 690140714 | Spacer disc Ø42/Ø66x1,5 | 4 | 4 |
| 9 | 690140715 | Bushing Ø40/Ø44 L=40 | 4 | 4 |

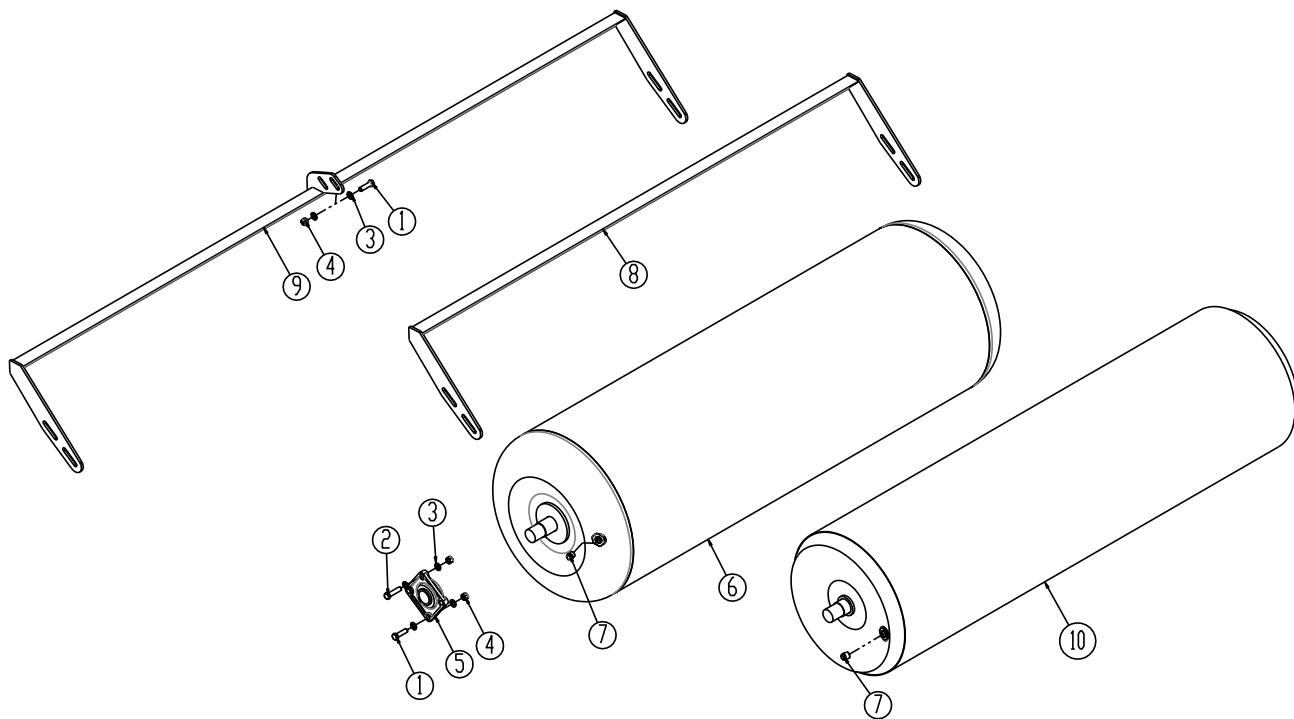


Wing section right / left After serial no. 347070**Wing suspension and folding cylinder 4,5m**

| Pos. | Item no. | Designation | 4,5m | 6,3m | 8,2m |
|------|-----------|-------------------------------------------------------|------|------|------|
| 1 | 630286159 | Side section, right | 1 | | |
| 1 | 630330062 | Side section, right After serial no. 347070 | | 1 | |
| 1 | 630367102 | Side section, right After serial no. 347534 | | | 1 |
| 2 | 630286146 | Side section, left | 1 | | |
| 2 | 630330071 | Side section, left After serial no. 347070 | | 1 | |
| 2 | 630367101 | Side section, left After serial no. 347534 | | | 1 |
| 3 | 1201059 | Wing suspension, right | 1 | | |
| 3 | 630773000 | Wing suspension, right | | 1 | |
| 3 | 630347712 | Wing suspension, right | | | 1 |
| 4 | 1201058 | Wing suspension, left | 1 | | |
| 4 | 630773100 | Wing suspension, left | | 1 | |
| 4 | 630347702 | Wing suspension, left | | | 1 |
| 5 | 69440525G | Pin Ø40 L=525 | 2 | 2 | 2 |
| 6 | 690140714 | Spacer disc Ø42/Ø66 x 1,5mm | 4 | 4 | 4 |
| 7 | 690140715 | Bushing Ø40/Ø44 L=40 | 4 | 4 | 4 |
| 8 | 0432510 | Lubricating nipple M8 | 8 | 8 | 8 |
| 9 | 69440508G | Pin Ø40 L=508 | 2 | 2 | |
| 9 | 69440550G | Pin Ø40 L=550 | | | 2 |
| 10 | 630532600 | Lock bush for pin head | 4 | 4 | 4 |
| 11 | 690101101 | Bolt M12x25 | 4 | 4 | 4 |
| 12 | 630555015 | Stone boxes, incl U-bolts | 2 | 2 | 2 |
| 13 | 690110105 | U-bolt M16x100x200x100 | 4 | 4 | 4 |
| 14 | 0272290 | Facet washer Ø16 | 8 | 8 | 8 |
| 15 | 0264090 | Self-locking nut M16 | 8 | 8 | 8 |
| 16 | 630286167 | Cylinder 70/40x600 | 1 | | |
| | 690200068 | Gasket set 70/40 Laizhou | | | |
| 17 | 69430090G | Pin Ø30 L=90 | 2 | | |



Packer roller



| Pos. | Item no. | Designation | 4,5m | 6,3m | 8,2m |
|------|-----------|----------------------------------------------------|------|------|------|
| 1 | 0235830 | Bolt M16x55 8.8 | 12 | 12 | 16 |
| 2 | 0235850 | Bolt M16x65 8.8 | 12 | 12 | 12 |
| 3 | 0272890 | Facet washer Ø16 | 60 | 48 | 56 |
| 4 | 0264090 | Self-locking nut M16 | 30 | 24 | 28 |
| 5 | 690140813 | Bearing UCF 211, ø55, 4-holes, ø60 shaft | 6 | 6 | 6 |
| 6 | 630536600 | Valser f/sideled+midterled L=1500 / Ø610 | 3 | | |
| 6 | 630327207 | Roller f/wing section+middle section L=2370 / Ø710 | | 3 | 1 |
| 6 | 630327239 | Roller f/side section L= 3283 / Ø710 | | | 2 |
| 7 | 690203321 | Plug ¾" RG-sort | 6 | 6 | 6 |
| 7a | 690203320 | welded nipple socket 1/2" x 3/4" RG, black | 6 | 6 | 6 |
| 8 | 630536615 | Scraper bar middle section | 1 | | |
| 8 | 630762041 | Scraper bar | | 3 | 1 |
| 9 | 630536610 | Scraper bar side sections right/left | 2 | | |
| 9 | 630327232 | Scraper bar for side section right/left | | | 2 |
| 10 | 630330079 | Roller L=2370 / Ø610 | | 3 | |



Rings

| Cambridge rings Ø620 mm | | Description | Quality | Part no. |
|---------------------------------------|---------------------------------------|---------------------|---------|-----------|
| Pos. 12 620 mm Lenient (10 spokes) | Pos. 13 620 mm Breaker (10 spokes) | Pos. 12 Hub 104 mm | GG25 | 690150113 |
| | | Pos. 12 Hub 104 mm | GGG50 | 7375016 |
| | | Pos. 12 Hub 80 mm | GG25 | 690150111 |
| | | Pos. 12 Hub 80 mm | GGG50 | 7375015 |
| | | Pos. 12 Hub 72 mm ☒ | GGG50 | 7375021 |
| | | Pos. 12 Hub 82 mm ☒ | GGG50 | 7375022 |
| | | Pos. 13 | GG25 | 690150067 |
| | | Pos. 13 | GGG50 | 690150116 |

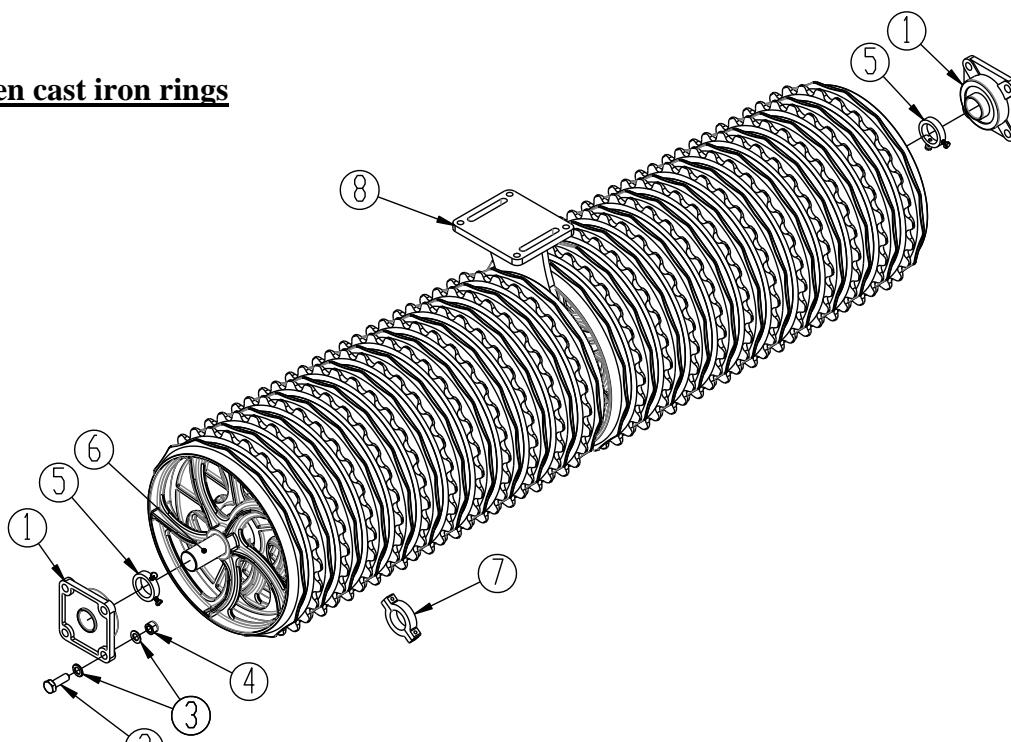
| Star ring Ø450/Ø500 mm | | | Description | Quality | Part no. |
|------------------------|-------------------|-------------------|------------------------|---------|-----------|
| Pos. 17 500 mm | Pos. 18 450 mm | Pos. 19 235 mm | Pos. 17 Ø500/Ø135 | GGG50 | 690150063 |
| | | | Pos. 18 Ø485 | GGG50 | 690150064 |
| | | | | | |
| | | | Pos. 19 Mounting plate | | 690150112 |

| Star ring Ø550/Ø600 mm | | | Description | Quality | Part no. |
|------------------------|-------------------|-------------------|------------------------|---------|-----------|
| Pos. 20 600 mm | Pos. 21 550 mm | Pos. 19 235 mm | Pos. 20 Ø600/Ø135 | GGG50 | 690150065 |
| | | | Pos. 21 Ø550 | GGG50 | 690150066 |
| | | | | | |
| | | | Pos. 19 Mounting plate | | 690150112 |



| Crosskill 550/600 mm | | | Beskrivelse | Quality | Part no. |
|--------------------------------|--------------------------------|--------------------|------------------|---------|-----------|
| Pos. 22 Loose Crosskill | Pos. 23 Rigid Crosskill | Pos. 24 Hub | Pos. 22 600 mm | GG25 | 690150075 |
| | | | Pos. 23 550 mm | GG25 | 690150074 |
| | | | | | |
| | | | Pos. 24 Hub Ø104 | | 690150076 |

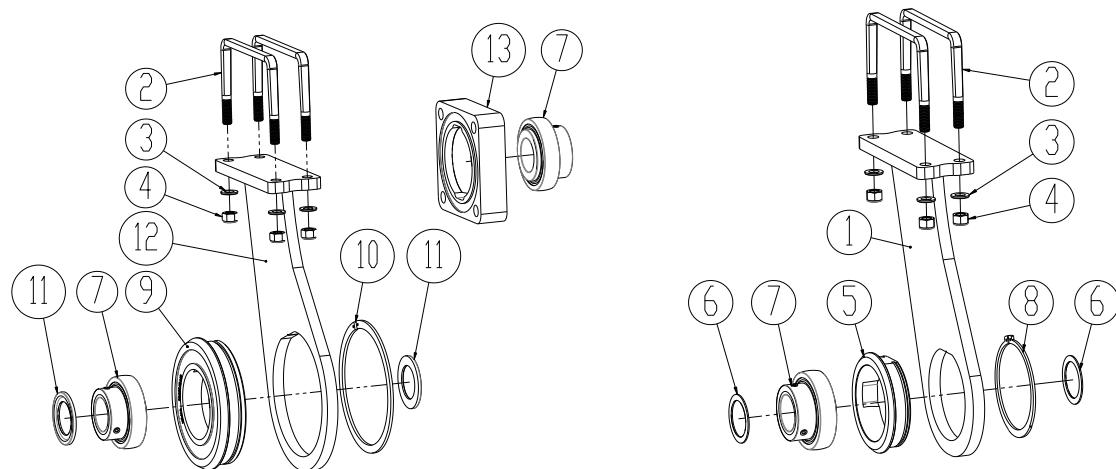
Roller section when cast iron rings



| Pos. | Art. No. | Designation | 4,5 | 6,3 | 8,2 |
|------|-----------|--------------------------------------------------|-----|-----|-----|
| 1 | 690140813 | Bearing UCF 211 ø55, complete bearing | 6 | 6 | 6 |
| 2 | 690103197 | Bolt M16x50 8.8 fzb | 24 | 24 | 24 |
| 3 | 0272290 | Faceted washer Ø16 DIN125B | 48 | 48 | 48 |
| 4 | 0264090 | Self-locking nut M16 | 24 | 24 | 24 |
| 5 | 671040400 | Stop bushing w/2 pc. M12 bolts (til Ø60 shaft) | 3 | 3 | 5 |
| 6 | 678661736 | Axle for middle + side sections Ø60 ST70 L=1736 | 3 | | |
| 6 | 678692370 | Shaft f/middle section Ø60 CrNiMo6 L=2370 | | 1 | 1 |
| 6 | 678662370 | Shaft f/side section Ø60 ST70 L=2370 | | 2 | |
| 6 | 678633283 | Shaft f/side section Ø60 ST60 L=3283 | | | 2 |
| 7 | 690150090 | Distancering 15mm | | | |
| 7 | 690150099 | Distancering 20mm | | | |
| 7 | 690150091 | Distancering 25mm | | | |
| 8 | | Support bearing, for side sections see next page | | | 2 |

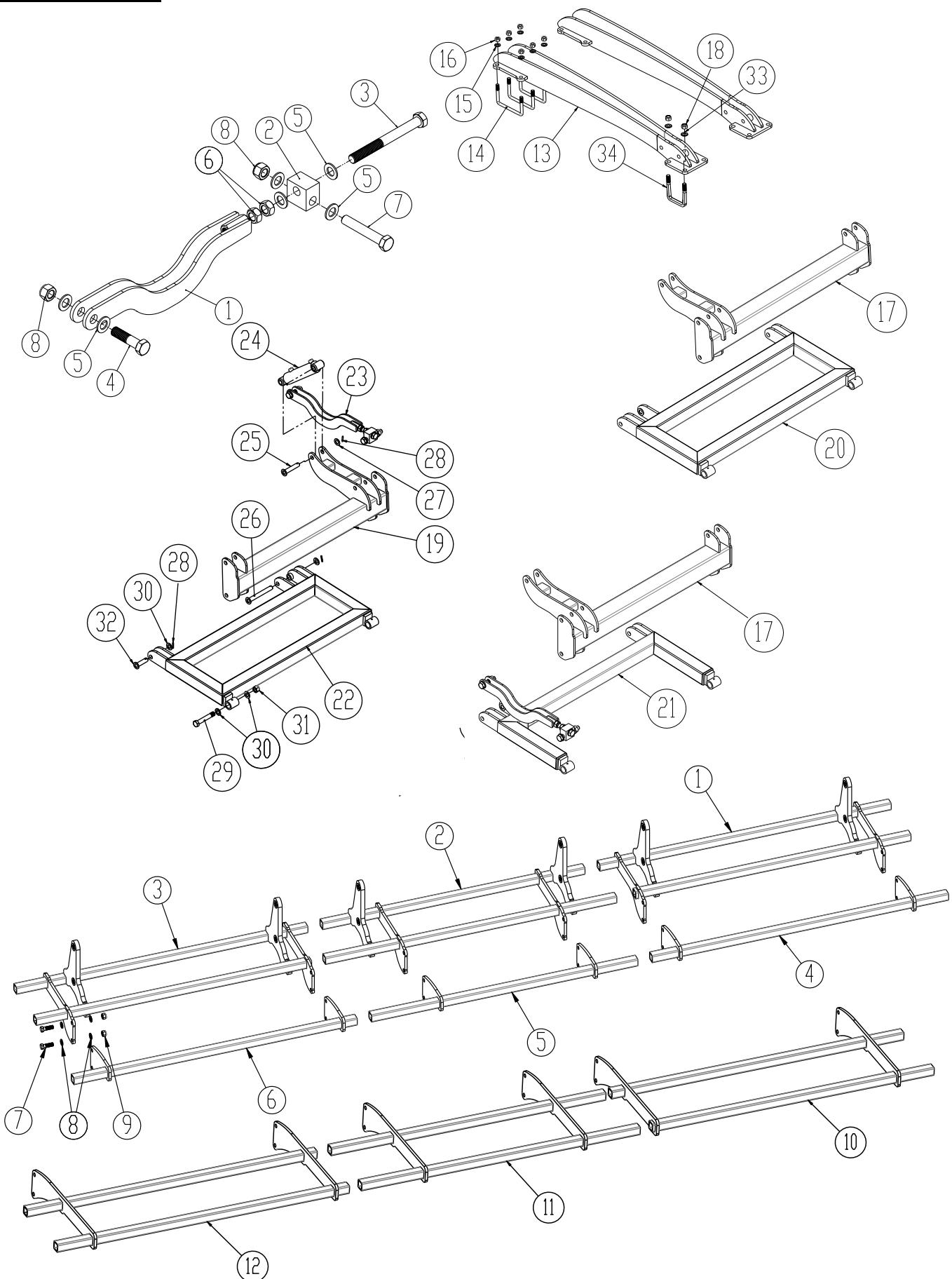


Support bearing



| Pos. | Art. No. | Designation | 8,2 |
|------|-----------|---------------------------------------------------------|-----|
| 1 | 630764006 | Console for bearing with Ø60 axle | 2 |
| 2 | 0382852 | U-bolt M16x100x200x100 | 4 |
| 3 | 0272290 | Facetwasher Ø16 DIN125B | 8 |
| 4 | 0264090 | Self-locking nut M16 | 8 |
| 5 | 630764008 | Housing for bearing | 2 |
| 6 | 7355000 | Thrust plate, narrow f/ UCF312 hub | 4 |
| 7 | 690140116 | Bearing UC312 R6 (ø60) | 2 |
| 8 | 691370150 | Seeger circlip ring Ø150 DIN471 | 2 |
| 9 | 7355040 | Bearing housing UCRSC 312 w/molded PVC ring | 2 |
| 10 | 691370220 | Seeger circlip ring Ø220 DIN471 | 2 |
| 11 | 7355000 | Thrust plate, narrow f/ UCF312 hub | 4 |
| 12 | 1210139 | Console for rubber damped support bearing with Ø60 axle | 2 |
| 13 | 7355013 | Bearing housing UCRSF 312 w / molded PVC ring | 6 |

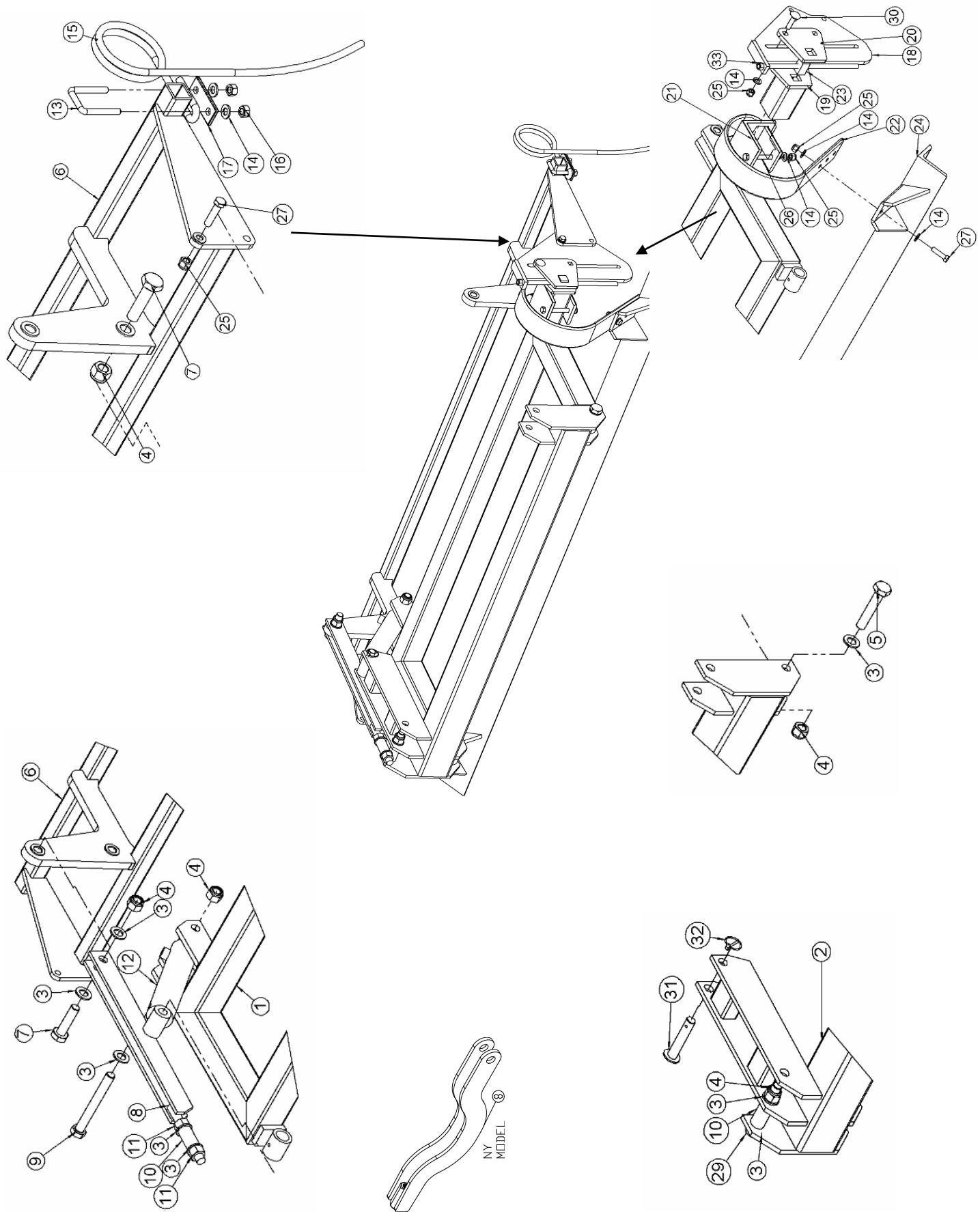


Harrow 4,5 meter

| Pos. | Item no. | Designation | 4,5m |
|------|-----------|---------------------------------------------|------|
| 1 | 630286141 | Harrow frame, left | 1 |
| 2 | 630286150 | Harrow frame, middle | 1 |
| 3 | 630286153 | Harrowframe, right | 1 |
| 4 | 1200223 | 1 additional harrow bar Grass-Roller left | 1 |
| 5 | 1200224 | 1 additional harrow bar Grass-Roller middle | 1 |
| 6 | 1200225 | 1 additional harrow bar Grass-Roller right | 1 |
| 7 | 0235810 | Bolt M16x50 8.8 | 12 |
| 8 | 0272290 | Facet washer Ø16 | 24 |
| 9 | 0264090 | Låsemøtrik M16 | 12 |
| 10 | 630286154 | 2 additional harrow bar Grass-Roller left | 1 |
| 11 | 630286161 | 2 additional harrow bar Grass-Roller middle | 1 |
| 12 | 630286160 | 2 additional harrow bar Grass-Roller right | 1 |
| 13 | 630286130 | Horn | 4 |
| 14 | 690110102 | U-bolt M16x80x160x80 | 12 |
| 15 | 0272290 | Facet washer Ø16 | 24 |
| 16 | 0264090 | Self-locking nut M16 | 24 |
| 17 | 630286145 | Suspention for front harrow left and middle | 2 |
| 18 | 0264100 | Self-locking nut M18 | 24 |
| 19 | 630286164 | Suspention for front harrow right | 1 |
| 20 | 630286109 | Lifting frame frontharrow left | 1 |
| 21 | 630286181 | Lifting frame frontharrow middle | 1 |
| 22 | 630286110 | Lifting frame frontharrow right | 1 |
| 23 | 630327523 | Parallel arm complete | 3 |
| 24 | 690200040 | Cylinder 50/30x155 Ø20,5/20,5 | 3 |
| 25 | 69520087F | Pin Ø20 L=87 | 3 |
| 26 | 69520155F | Pin Ø20 L155 | 3 |
| 27 | 0272310 | Facet washer Ø20 | 9 |
| 28 | 0371395 | Roll pin Ø5x35 | 9 |
| 29 | 0236200 | Bolt | 6 |
| 30 | 0272310 | Facet washer Ø20 | 12 |
| 31 | 0264110 | Self-locking nut M20 | 6 |
| 32 | 69520061F | Nagle | 3 |
| 33 | 0272300 | Facet washer Ø18 | 24 |
| 34 | 0382900 | DragbåndM18x100x100x100 | 12 |



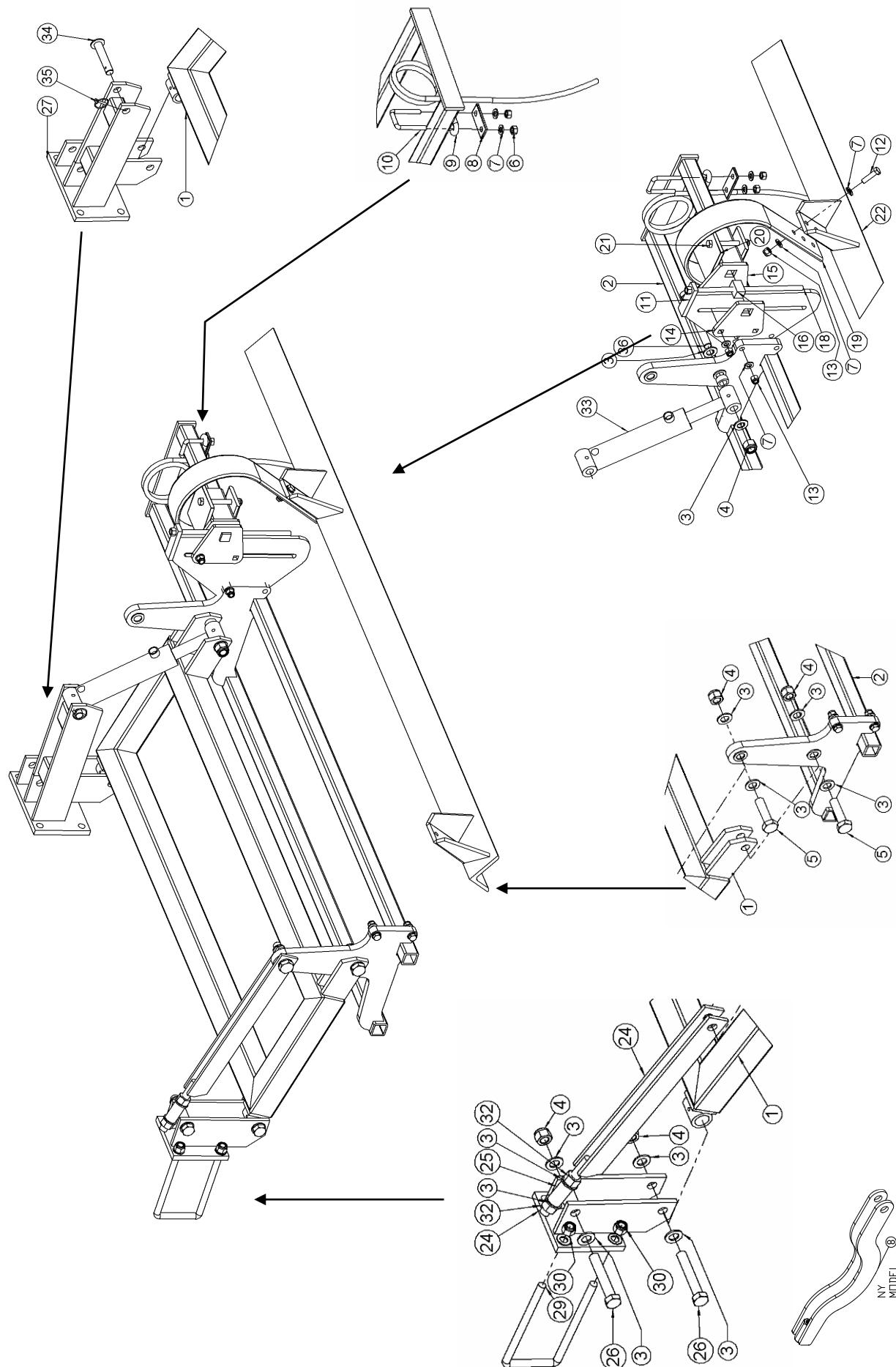
Harrow for middle sektion 6,3 - 8,2m before December 2014



| Pos. | Item no. | Designation | 6.3m | 8.2m |
|------|-----------|------------------------------------------------------------------|------|------|
| 1 | 630327182 | Lifting frame left + middle front harrow | 1 | 1 |
| 2 | 630327183 | Suspension f/harrow middle section | 1 | 1 |
| 2a | 690110101 | U-bolt f/mounting 63027183 M16x100x100x100 | 4 | 4 |
| 2b | 0272290 | Facet plate Ø16 | 8 | 8 |
| 2c | 0264090 | Self-locking nut M16 | 8 | 8 |
| 3 | 0272310 | Facet plate Ø20 | 24 | 24 |
| 4 | 0264110 | Self-locking nut M20 | 8 | 8 |
| 5 | 0236200 | Bolt M20x110 8.8 | 2 | 2 |
| 6 | 630327178 | Harrow section middle section | 1 | 0 |
| 6 | 630327226 | Harrow section middle section | 0 | 1 |
| 7 | 0236170 | Bolt M20x80 8.8 | 3 | 3 |
| 8 | 630327180 | Parallel rod f/front harrow | 2 | 2 |
| 8 | 630327252 | Parallel rod (discontinued model) From machine no. 341717 | 2 | 2 |
| 8 | 630327521 | Parallel rod (new curved model) From machine no. 341717 | 2 | 2 |
| 8a | 690112015 | Bolt M20 x 150 Set bolt 8 From machine no. 341717 | 2 | 2 |
| 9 | 0236265 | Bolt M20x180 8.8 | 1 | 1 |
| 10 | 630327179 | Toggle joint at bracket on the harrow (ended) | 2 | 2 |
| 10 | 630327251 | Angle block for parallel rod From machine no. 341717 | 2 | 2 |
| 11 | 0261410 | Nut M20 | 4 | 4 |
| 12 | 690200040 | Cylinder 50/30x155mm Ø20/Ø20 mm | 1 | 1 |
| 12a | 690200045 | Gasket set 50/30 | | |
| 13 | 690110050 | U-bolt M12 40x40x40 | 23 | 23 |
| 14 | 0272270 | Facet plate Ø12 | 74 | 74 |
| 15 | 0426110 | Long finger tine ø12 x 100 curved | 23 | 23 |
| 16 | 690113013 | Self-locking nut M12 (all-metal) quality 10 | 46 | 46 |
| 17 | 1012520 | Clamping plate M12 | 23 | 23 |
| 18 | 630327192 | Height adjustment for levelling board | 2 | 2 |
| 19 | 630327193 | Clamping plate w/bar for height adjustment | 2 | 2 |
| 20 | 630327191 | Clamping plate for height adjustment | 2 | 2 |
| 21 | 0422390 | Clamp | 2 | 2 |
| 22 | 0422145 | Spring-Board tine 80x10mm | 2 | 2 |
| 23 | 630327199 | Threaded block for height adjustment of levelling board | 2 | 2 |
| 24 | 630327196 | Levelling board – Middle section | 1 | 0 |
| 24 | 630327237 | Levelling board – Middle section | 0 | 1 |
| 25 | 690113019 | Self locking nut M12 (all-metal) Quality 8 | 16 | 16 |
| 26 | 0235470 | Bolt M12x110 8,8 | 2 | 2 |
| 27 | 0235380 | Bolt M12x50 8.8 | 10 | 10 |
| 28 | 0236210 | Bolt M20x120 8.8 | 3 | 3 |
| 30 | 0248680 | Bolt (carrier bolt) M12x50 | 4 | 4 |
| 31 | 69520087F | Pin Ø20 L=87 | 1 | 1 |
| 32 | 0378200 | Ring pin Ø4,5 mm | 1 | 1 |
| 33 | 630327217 | Threaded rod for levelling board | 2 | 2 |



Harrow for side sections 6,3 - 8,2m before December 2014

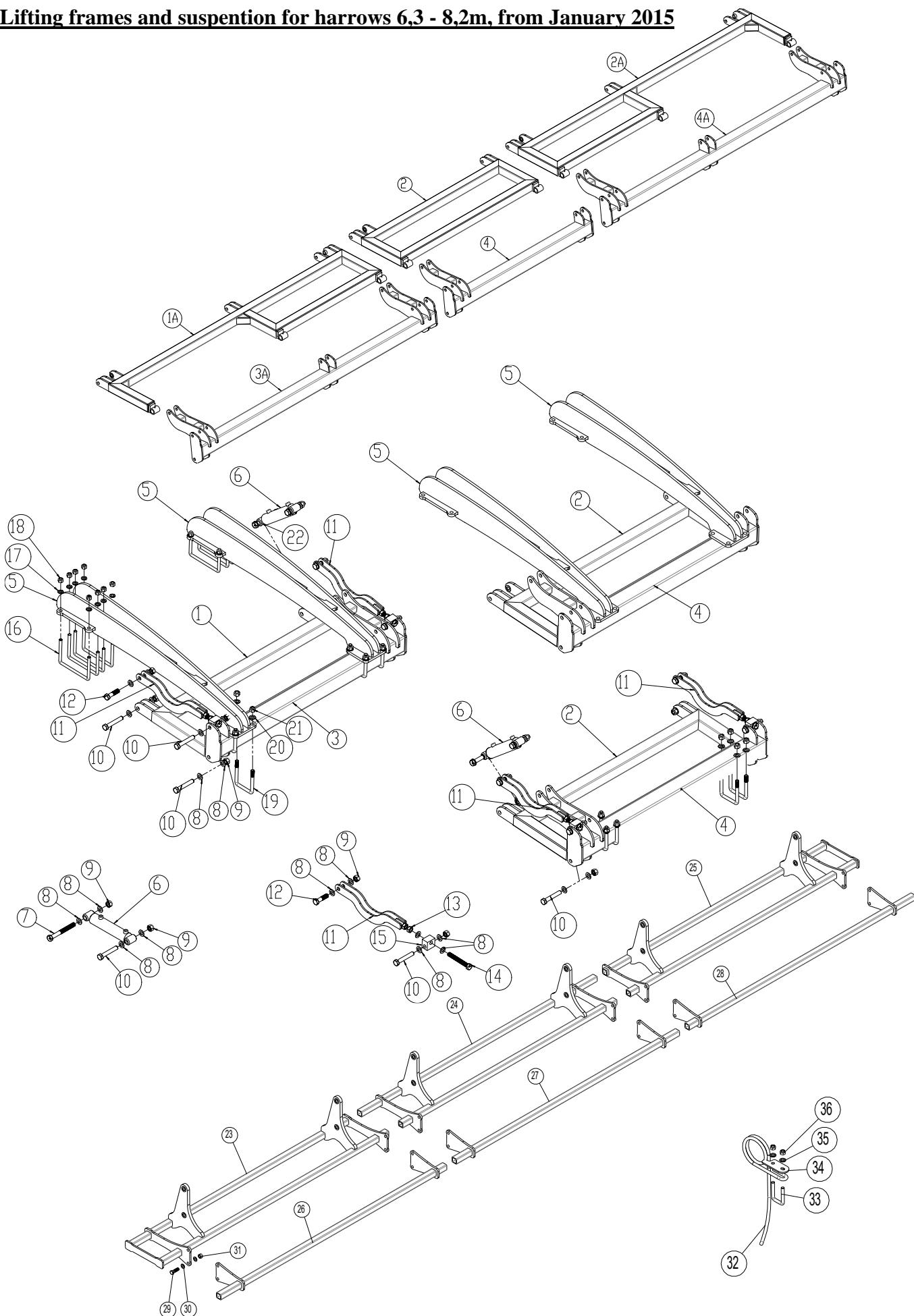


| Pos. | Item no. | Designation | 6.3m | 8.2m |
|------|-----------|------------------------------------------------------------------|------|------|
| 1 | 630327182 | Lifting frame left + middle front harrow | 1 | 0 |
| 1 | 630327181 | Lifting frame right | 1 | 0 |
| 1 | 630327221 | Lifting frame left | 0 | 1 |
| 1 | 630327220 | Lifting frame right | 0 | 1 |
| 2 | 630327177 | Harrow frame left | 1 | 0 |
| 2 | 630327176 | Harrow frame right | 1 | 0 |
| 2 | 630327228 | Harrow frame left | 0 | 1 |
| 2 | 630327227 | Harrow frame right | 0 | 1 |
| 3 | 0272310 | Facet plate Ø20 | 20 | 30 |
| 4 | 0264110 | Self-locking nut M20 | 8 | 12 |
| 5 | 0236180 | Bolt M20x90 8.8 | 2 | 3 |
| 6 | 690113013 | Self-locking nut M12 (all-metal) | 48 | 62 |
| 7 | 690117014 | Facet plate Ø12 | 76 | 88 |
| 8 | 1012520 | Clamp, M12 | 24 | 31 |
| 9 | 0426110 | Long finger tine ø12 x 100 curved | 24 | 31 |
| 10 | 690110050 | U-bolt M12 40x40x40 | 24 | 31 |
| 11 | 630327192 | Height adjustment f/levelling board | 2 | 3 |
| 12 | 0235380 | Bolt M12x50 8.8 | 10 | 15 |
| 13 | 690113019 | Self-locking nut M12 (all-metal) | 16 | 16 |
| 14 | 630327191 | Clamp for height adjustment | 2 | 3 |
| 15 | 630327193 | Clamp with bar for height adjustment | 2 | 3 |
| 16 | 630327199 | Threaded block for height adjustment of levelling board | 2 | 3 |
| 17 | 0248680 | Bolt (carrier bolt) M12x50 | 4 | 6 |
| 18 | 630327217 | Threaded rod for levelling board | 2 | 3 |
| 19 | 0422145 | Spring-Board tine 80x10 mm | 2 | 3 |
| 20 | 0422390 | Clamp for Spring-Board tine | 2 | 3 |
| 21 | 690103098 | Bolt M12x110 8,8 | 2 | 3 |
| 22 | 630327195 | Levelling board, left | 1 | 0 |
| 22 | 630327194 | Levelling board, right | 1 | 0 |
| 22 | 630327236 | Levelling board, left | 0 | 1 |
| 22 | 630327235 | Levelling board, right | 0 | 1 |
| 24 | 630327180 | Parallel rod f/front harrow | 2 | 3 |
| 24 | 630327252 | Parallel rod (discontinued model) From machine no. 341717 | 2 | 3 |
| 24 | 630327521 | Parallel rod (new curved model) From machine no. 341717 | 2 | 3 |
| 24a | 690112015 | Bolt M20 x 150 Set bolt 8 From machine no. 341717 | 2 | 3 |
| 25 | 630327179 | Toggle joint at bracket on the harrow | 2 | 3 |
| 25 | 630327251 | Angle block for parallel rod From machine no. 341717 | 2 | 3 |
| 26 | 0236210 | Bolt M20x120 8.8 | 4 | 6 |



| | | | | |
|-----|-----------|----------------------------------------------------|---|----|
| 27 | 630327185 | Left cylinder bracket f/side sections | 1 | 1 |
| 27a | 630327186 | Right cylinder bracket f/side sections | 1 | 1 |
| 27b | 630327277 | Middle cylinder bracket, left side section | 0 | 1 |
| 27c | 630327279 | Middle cylinder bracket, right side section | 0 | 1 |
| 28 | 630327184 | Mounting bracket on side sections without cylinder | 2 | 2 |
| 29 | 690110106 | U-bolt M16x200x100x200 | 4 | 6 |
| 30 | 0264090 | Self-locking nut M16 | 8 | 12 |
| 31 | 0272290 | Facet plate Ø16 | 8 | 12 |
| 32 | 0261410 | Nut M20 | 4 | 6 |
| 33 | 690200040 | Cylinder 50/30x155mm Ø20/Ø20 mm | 1 | 2 |
| 33a | 690200045 | Gasket set 50/30 | | |
| 34 | 69520087F | Pin Ø20 L=87 | 1 | 2 |
| 35 | 0378200 | Ring pin Ø4,5 mm | 1 | 2 |
| 36 | 0236265 | Bolt M20x180 8.8 | 1 | 2 |



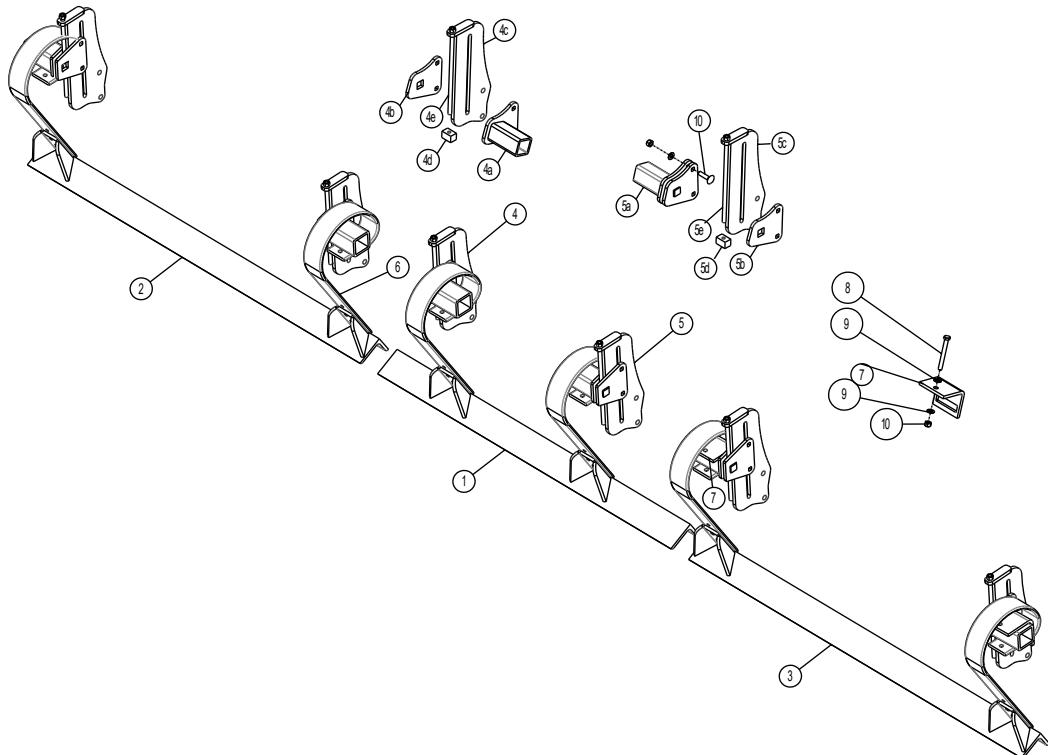
Lifting frames and suspension for harrows 6,3 - 8,2m, from January 2015

| Pos. | Item no. | Designation | 6,3m | 8,2m |
|------|-----------|---------------------------------------|------|------|
| 1 | 630327181 | Lifting frame, right | 1 | |
| 1A | 630367105 | Lifting frame, right | | 1 |
| 2 | 630327182 | Lifting frame, left - middle | 2 | 1 |
| 2A | 630367124 | Lifting frame, left | | 1 |
| 3 | 630330032 | Suspention right | 1 | |
| 3A | 630367103 | Suspention right | | 1 |
| 4 | 630330059 | Suspention left - middle | 2 | 1 |
| 4A | 630367125 | Suspention left | | 1 |
| 5 | 630330012 | Horn | 4 | 6 |
| 6 | 690200040 | Cylinder 50/30x155mm Ø20/Ø20 mm | 3 | 3 |
| | 690200045 | Gasket set 50/30 | | |
| 7 | 690103160 | Bolt M20x180 8.8 | 3 | 3 |
| 8 | 0272310 | Facet washer Ø20 | 12 | 12 |
| 9 | 0264110 | Self-locking nut M20 | 18 | 20 |
| 10 | 0236210 | Bolt M20x120 8.8 | 18 | 20 |
| 11 | 630327521 | Parallel arm | 6 | 8 |
| 12 | 0236265 | Bolt M20x180 8.8 | 6 | 8 |
| 13 | 0261410 | Nut M20 | 12 | 16 |
| 14 | 690112015 | Bolt M20x150 8.8 Set bolt | 6 | 8 |
| 15 | 630327251 | Angel block w/parallel arm | 6 | 8 |
| 16 | 690110105 | U-bolt M16x100x200x100 | 16 | 24 |
| 17 | 0272290 | Facet washer Ø16 | 32 | 48 |
| 18 | 0264090 | Self-locking nut M16 | 32 | 48 |
| 19 | 690110404 | U-bolt M18x100x100x100 | 8 | 12 |
| 20 | 0272300 | Facet washer Ø18 | 16 | 24 |
| 21 | 0264100 | Self-locking nut M18 | 16 | 24 |
| 22 | 0432100 | Grease nipple M6 | 6 | 6 |
| 23 | 1200066 | Harrow frame, right | 1 | |
| 23 | 630367161 | Harrow frame, right | | 1 |
| 24 | 1200060 | Harrow frame, center | 1 | |
| 24 | 630367157 | Harrow frame, center | | 1 |
| 25 | 1200063 | Harrow frame, left | 1 | |
| 25 | 630367160 | Harrow frame, left | | 1 |
| 26 | 1200080 | Harrow 1 row, right | 1 | |
| 26 | 1200756 | Harrow 1 row, right | | 1 |
| 27 | 1200079 | Harrow 1 row, center | 1 | |
| 27 | 1200760 | Harrow 1 row, center | | 1 |
| 28 | 1200081 | Harrow 1 row, left | 1 | |
| 28 | 1200758 | Harrow 1 row, left | | 1 |
| 29 | 0235810 | Bolt M16x50mm, 8.8 fzg | 12 | |
| 30 | 0272290 | Faceted disc 16mm, fzb | 24 | |
| 31 | 0264090 | Self locking nut M16 DIN985 | 12 | |
| 32 | 0426110 | Tine Ø12 x 100 buet | | |
| 33 | 690110050 | U-BoltM12x40x40x40 (pr.tine) | 1 | 1 |
| 34 | 1012521 | Bracket for tine (pr. tine) | 1 | 1 |
| 35 | 0272270 | Faceted disc Ø12 pr. tine) | 2 | 2 |
| 36 | 0264070 | Self locking nut M12 DIN985 (pr.tine) | 2 | 2 |



Planerplanke 4,5 – 6,3 – 8,2m

4,5m vist

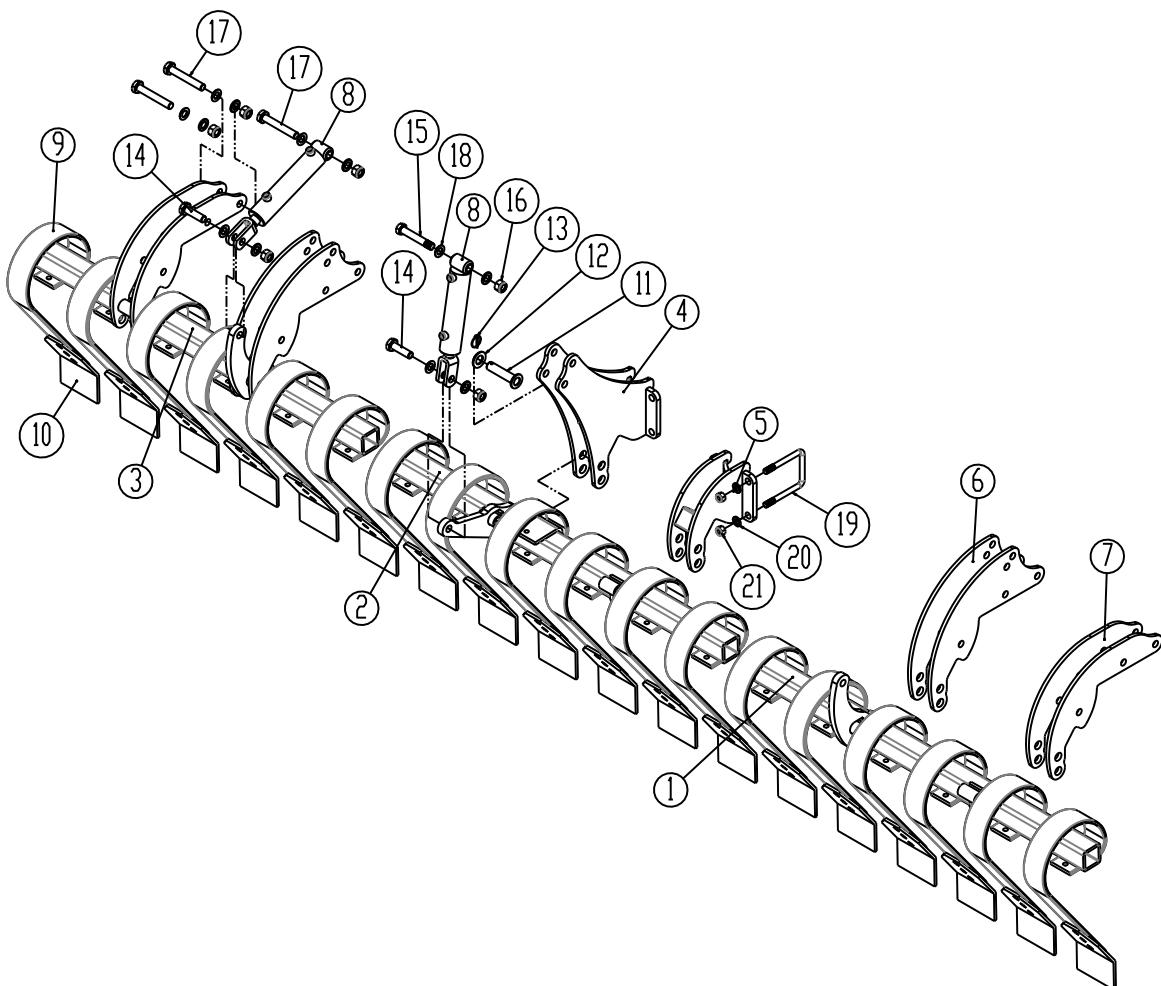


| Pos. | Vare nr. | Betegnelse | 4,5m | 6,3m | 8,2m |
|------|-----------|----------------------------------|------|------|------|
| 1 | 630286177 | Levelling bar, center | 1 | | |
| 1 | 1200058 | Levelling bar, center | | 1 | |
| 1 | 630367173 | Levelling bar, center | | | 1 |
| 2 | 630286179 | Levelling bar, right | 1 | | |
| 2 | 1200068 | Levelling bar, right | | 1 | |
| 2 | 630367174 | Levelling bar, right | | | 1 |
| 3 | 630286179 | Levelling bar, left | 1 | | |
| 3 | 1200068 | Levelling bar, left | | 1 | |
| 3 | 630367172 | Levelling bar, left | | | 1 |
| 4 | 630286185 | Bracket for levelling bar | 3 | 3 | 4 |
| 4a | 630327167 | Clampingplate with tube | 3 | 3 | 4 |
| 4b | 630327165 | Clampingplate without tube | 3 | 3 | 4 |
| 4c | 630367171 | Leftturned bracket | 3 | 3 | 4 |
| 4d | 630327199 | Threaded block | 3 | 3 | 4 |
| 4e | 630327217 | Threaded rod | 3 | 3 | 4 |
| 5 | 630367185 | Bracket for levelling bar | 3 | 3 | 4 |
| 5a | 630367169 | Clampingplate with tube | 3 | 3 | 4 |
| 5b | 630327165 | Clampingplate without tube | 3 | 3 | 4 |
| 5c | 630367170 | Rightturned bracket | 3 | 3 | 4 |
| 5d | 630327199 | Threaded block | 3 | 3 | 4 |
| 5e | 630327217 | Threaded rod | 3 | 3 | 4 |
| 6 | 0422146 | Spring-Board tine 90x14mm | | 6 | 8 |
| 6 | 0422145 | Spring-Board tine 80x10mm | 6 | | |
| 7 | 0422395 | Tandholder, tand 90x14 | | 6 | 8 |
| 7 | 0422390 | Tandholder, tand 80x10 | 6 | | |
| 8 | 0235470 | Bolt M12x110 8.8 | 12 | 12 | 16 |
| 9 | 0272270 | Faceted disc12mm, fzb DIN 125B | 24 | 48 | 48 |
| 10 | 690113019 | Self-locking nut M12 (all-metal) | 12 | 24 | 48 |
| 11 | 0248680 | Carriage bolt M12x50 8.8 | 12 | 12 | 16 |
| 12 | 0235380 | Bolt M12x50mm, 8.8 fzb | 12 | 24 | 48 |



Spare parts list Spring-Board

Middle and side section to suit harrow mounting 4,5m



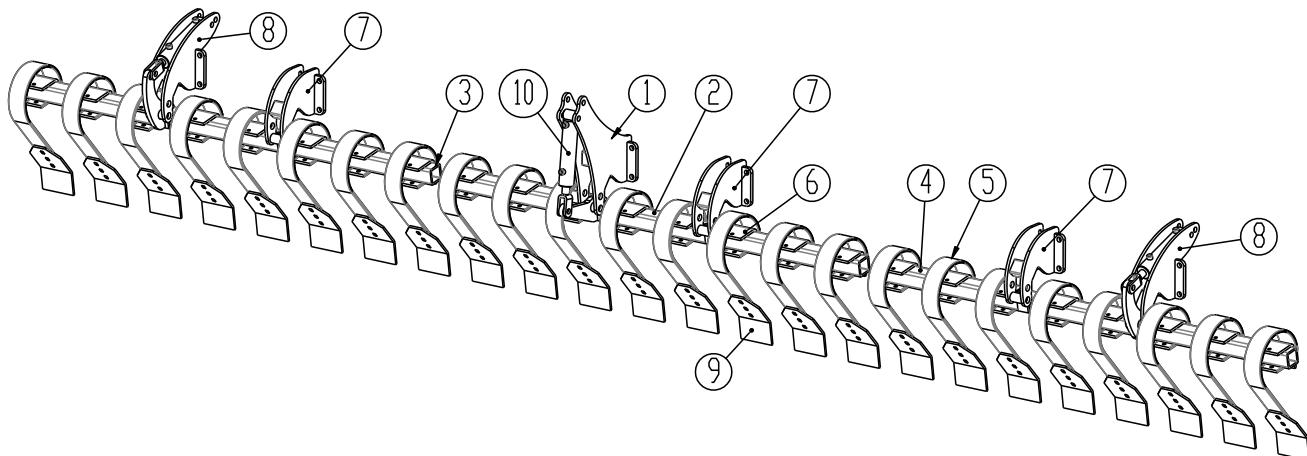
| Pos. | Item no. | Designation | 4,5m |
|------|-----------|-------------------------------------------------------|------|
| 1 | 630286173 | Spring-Board bar left | 1 |
| 2 | 630286169 | Spring-Board bar middle | 1 |
| 3 | 630286176 | Spring-Board bar right | 1 |
| 4 | 630330022 | Suspention middle frame for cylinder | 1 |
| 5 | 630330021 | Suspention middle where non cylinder | 1 |
| 6 | 630286172 | Suspention Spring-Board side frame for cylinder | 4 |
| 7 | 630286171 | Suspention Spring-Board side frame where non cylinder | 4 |
| 8 | 690200160 | Cylinder 50/30x155 Ø20,25/clevis | 3 |
| 8a | 690200045 | Gasket set 50/30 | |
| 9 | 0422145 | Tine 10x80 | 18 |
| 10 | 0422143 | Wearing point 8x150 | 18 |
| 11 | 69525095F | Pin Ø25 L=95 | 6 |
| 12 | 0272340 | Facet washer Ø27 | 6 |

The table continues →

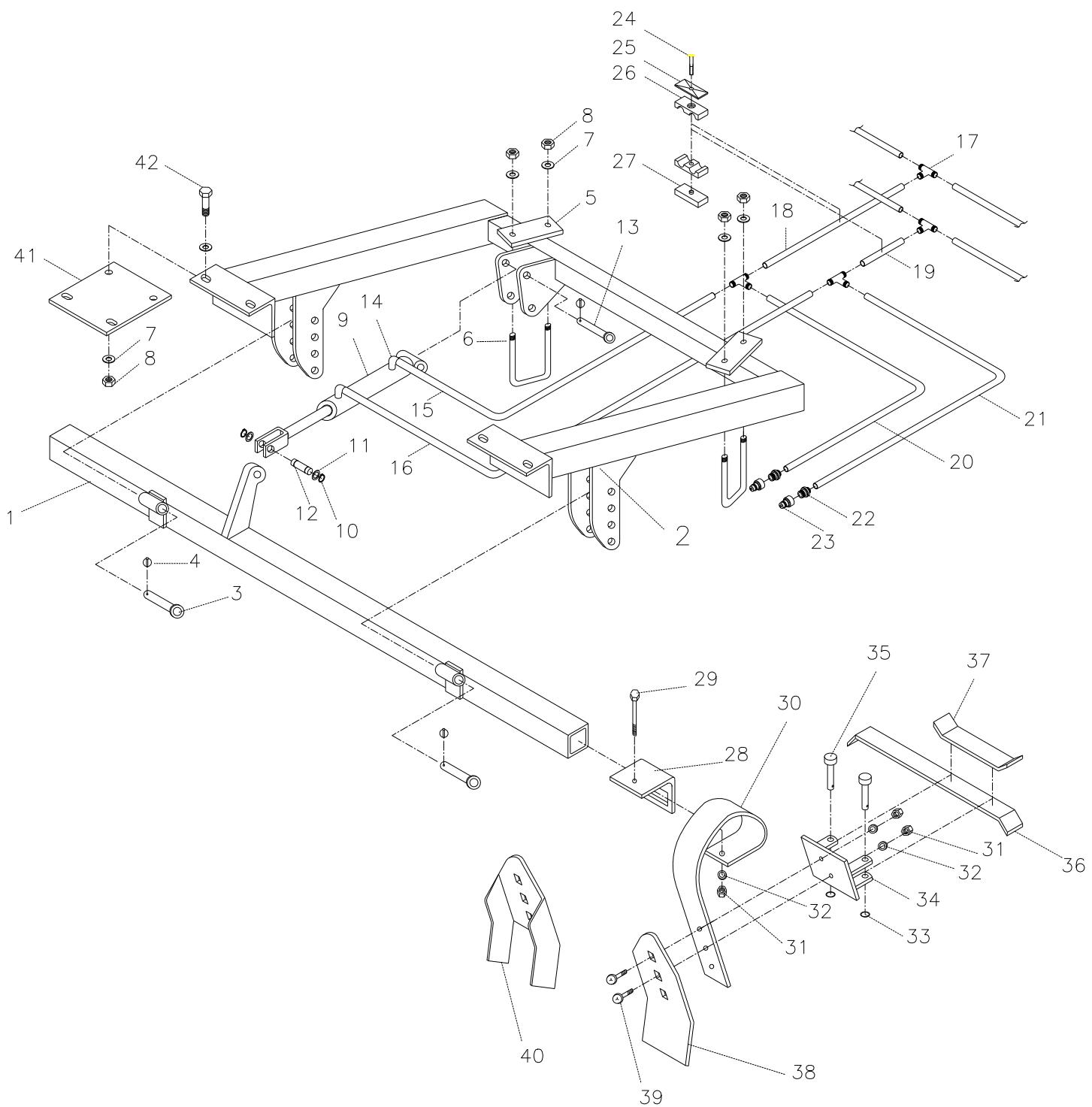


| | | | |
|----|-----------|-----------------------------|----|
| 13 | 0378200 | Ring clip Ø4,5 | 6 |
| 14 | 0236150 | Bolt M20x70 8.8 fzb DIN931 | 3 |
| 15 | 0236210 | Bolt M20x120 8.8 fzb DIN931 | 1 |
| 16 | 0264110 | Self locking nut M20 | 14 |
| 17 | 0236220 | Bolt M20x130 8.8 fzb DIN931 | 10 |
| 18 | 0272310 | Facet washer Ø20 | 28 |
| 19 | 690110101 | U-bolt M16 100x100x100 | 4 |
| 20 | 0272290 | Facet washer Ø16 | 8 |
| 21 | 0264090 | Self locking nut M16 | 8 |

Middle and side section to suit harrow mounting 6,3 - 8,2m



| Pos. | Item no. | Designation | 6,3m | 8,2m |
|------|-----------|--------------------------------------------------|------|------|
| 1 | 630330022 | Suspension middle section for cylinder | 1 | |
| 2 | 630330023 | Spring-Board bar middle | 1 | |
| 2 | 630367117 | Spring-Board bar middle | | 1 |
| 3 | 630330025 | Spring-Board bar right | 1 | |
| 4 | 630330024 | Spring-Board bar left | 1 | |
| 3+4 | 630367117 | Spring-Board bar right / left | | 2 |
| 5 | 0422145 | Spring-Board tine 80x10 - long | 24 | 32 |
| 6 | 0422390 | Clamp for Spring-Board tine, 70x70 mm bar | 24 | 32 |
| 7 | 630330021 | Suspension middle/side sections without cylinder | 3 | 3 |
| 8 | 630367120 | Suspension side sections with cylinder | 2 | 5 |
| 9 | 633052100 | Wearing point Spring-Board 150x8 | 24 | 32 |
| 10 | 690200160 | Cylinder 50/30x155 Ø20,25/clevis | 3 | 3 |
| | 690200045 | Gasket set 50/30 | | |

Middle section incl. hydraulics, when only Spring-Board 6.3 – 8.2m

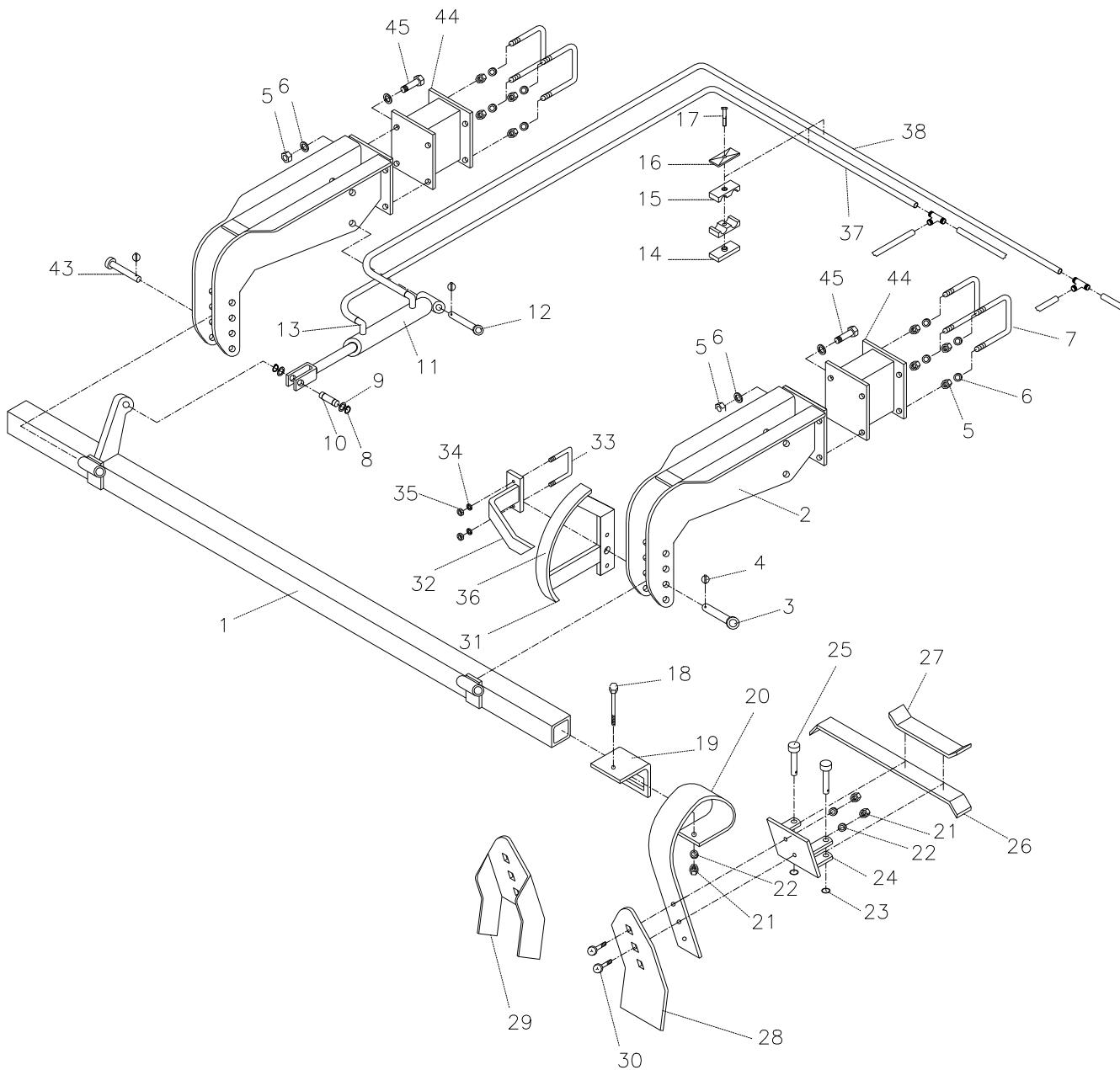
| Pos. | Item no. | Designation | 6.3m | 8.2m |
|------|-----------|---------------------------------------|------|------|
| 1 | 635053020 | Bar for tines | 1 | 0 |
| 1 | 633073020 | Bar for tines | 0 | 1 |
| 2 | 635051000 | Suspension for middle section | 1 | 0 |
| 2 | 633061000 | Suspension for middle section | 0 | 1 |
| 3 | 69525087F | Pin Ø25 L=87 | 2 | 2 |
| 4 | 0378200 | Ring pin Ø4,5 | 3 | 3 |
| 5 | 670861100 | Flange | 2 | 2 |
| 6 | 690110101 | U-bolt M16x100x100x100 | 2 | 2 |
| 7 | 0272290 | Facet plate Ø16 | 8 | 8 |
| 8 | 0264090 | Self-locking nut M16 | 6 | 6 |
| 9 | 690200160 | Cylinder 50/30x155 | 1 | 1 |
| 9e | 690200045 | Gasket set 50/30 mm | 1 | 1 |
| 10 | 691372020 | Seeger circlip ring Ø20 Din 471 | 2 | 2 |
| 11 | 690115010 | Washer Ø20/Ø28x1mm | 2 | 2 |
| 12 | 69520046D | Pin Ø20 L=46 | 1 | 1 |
| 13 | 69520087F | Pin Ø20 L=87 | 1 | 1 |
| 14 | 690203006 | Fitting 90angle 10 x 3/8" BSP | 2 | 2 |
| 15 | 690201051 | Hydraulic hose 1/4" L=250 mm | 1 | 1 |
| 16 | 690201059 | Hydraulic hose 1/4" L=350 mm | 1 | 1 |
| 17 | 690203015 | Fitting T10 | 4 | 4 |
| 18 | 690201032 | Hydraulic hose 1/4" L=1130 mm | 1 | 1 |
| 19 | 690201053 | Hydraulic hose 1/4" L=1260 mm | 1 | 1 |
| 20 | 690201038 | Hydraulic hose 1/4" L=4000 mm | 1 | 0 |
| 20 | 690201047 | Hydraulic hose 1/4" L=4610 mm | 0 | 1 |
| 21 | 690201006 | Hydraulic hose 1/4" L=3800 mm | 1 | |
| 21 | 690201047 | Hydraulic hose 1/4" L=4610 mm | | 1 |
| 22 | 690203003 | Fitting, straight 10 x 1/2" BSP | 2 | 2 |
| 23 | 690203001 | Quick coupling (male) E402 1/2" | 2 | 2 |
| 24 | 690210213 | Screw for tube-support double | 5 | 5 |
| 25 | 690210211 | Top plate for tube-support double | 5 | 5 |
| 26 | 690210210 | Tube-support double ø14/ø14 | 10 | 10 |
| 27 | 690210212 | Welding plate for tube-support double | 5 | 5 |
| 28 | 0422390 | Clamp for tine | 8 | 6 |
| 29 | 690103098 | Bolt M12x110 | 8 | 6 |
| 30 | 0422145 | Tine (10x80) | 8 | 6 |
| 30a | 633052000 | Tine complete | 8 | 6 |
| 31 | 0264070 | Self-locking nut M12 | 24 | 18 |
| 32 | 0272270 | Facet plate ø12 | 24 | 18 |

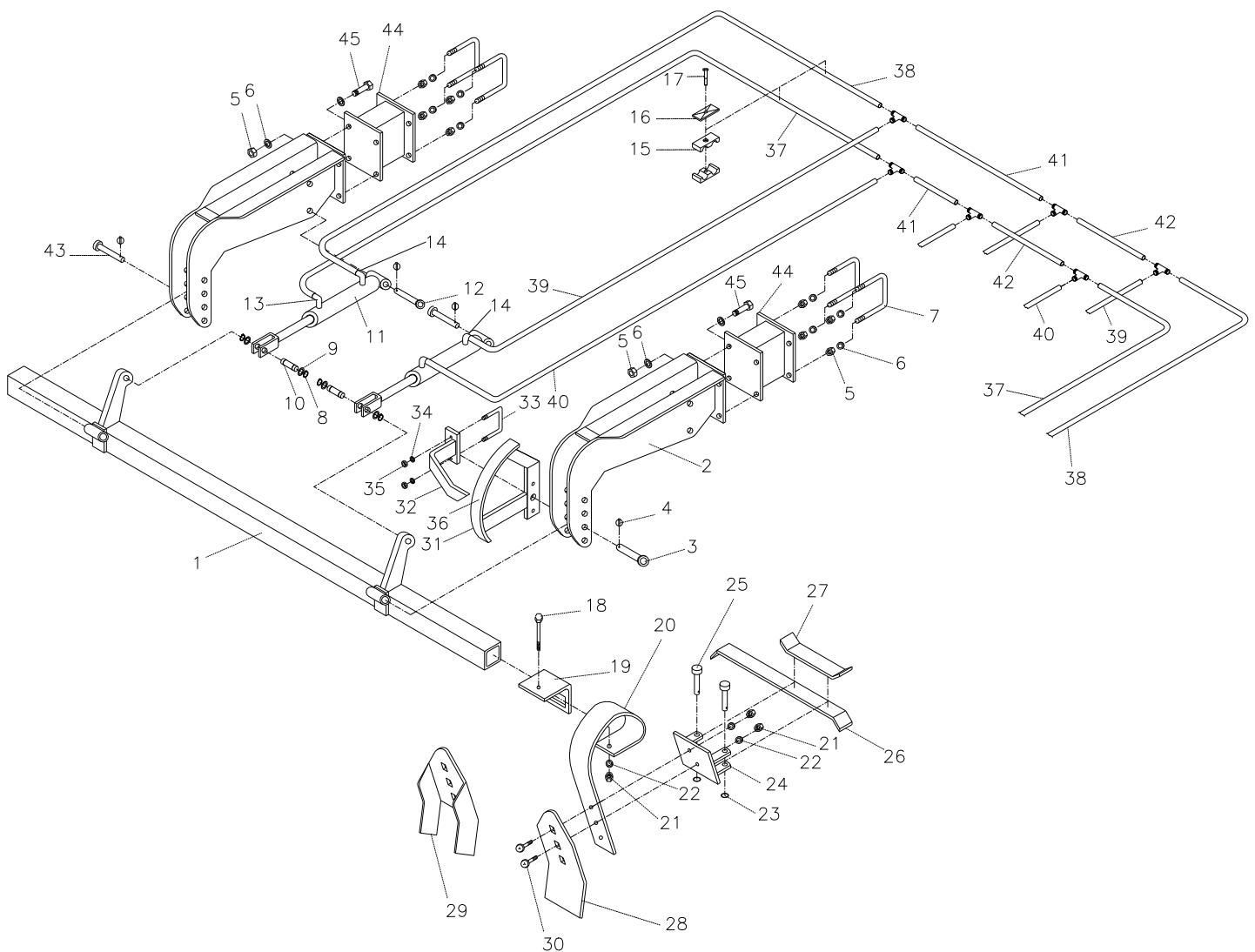
The table continues →



| Pos. | Item no. | Designation | 6.3m | 8.2m |
|------|-----------|-------------------------------------------------|------|------|
| 33 | 0431975 | Locking ring 30xø3 | 16 | 12 |
| 34 | 633055500 | Tine bracket for transverse locking system | 8 | 6 |
| 35 | 69512040K | Pin Ø12,5x40 | 16 | 12 |
| 36 | 633055710 | Long locking bar for transverse locking system | 7 | 5 |
| 37 | 633055700 | Short locking bar for transverse locking system | 2 | 2 |
| 38 | 0422143 | Tine point (8x150) | 8 | 6 |
| 39 | 0248670 | Bolt (carrier bolt) M12x45 | 16 | 12 |
| 40 | 633052150 | Tine point (slicing plates) | 8 | 6 |
| 41 | 635055010 | Distance plate for mounting | 2 | 2 |
| 42 | 690103126 | Bolt M16x45 | 4 | 4 |

Side section incl. hydraulics, when only Spring-Board (left shown) 6.3m



Side section incl. hydraulics, when only Spring-Board (left shown) 8.2m

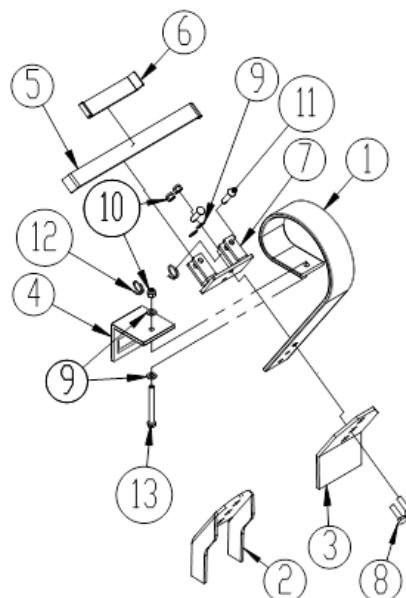
| Pos. | Item no. | Designation | 6.3m | 8.2m |
|------|-----------|-----------------------------------------------------|------|------|
| 1 | 635053010 | Bar for tines (right) | 1 | |
| 1 | 635053030 | Bar for tines (left) | 1 | |
| 1 | 633063010 | Bar for tines (right) | | 1 |
| 1 | 633063030 | Bar for tines (left) | | 1 |
| 2 | 635054500 | Horn | 4 | 4 |
| 3 | 69525095F | Pin Ø25 L=95 | 1 | 1 |
| 4 | 0378200 | Ring pin Ø4,5 | 6 | 6 |
| 5 | 0264090 | Self-locking nut M16 | 32 | 32 |
| 6 | 0272290 | Facet plate Ø16 | 48 | 48 |
| 7 | 690110106 | U-bolt M16x200x100x200 | 8 | 8 |
| 8 | 691372020 | Seeger circlip ring Ø20 Din 471 | 4 | 8 |
| 9 | 690115010 | Washer Ø20/Ø28x1mm | 4 | 8 |
| 10 | 69520046D | Pin Ø20 L=46 | 2 | 4 |
| 11 | 690200160 | Cylinder 50/30 x 155 | 2 | 4 |
| 11e | 690200045 | Gasket set 50/30 mm | 2 | 4 |
| 12 | 69520087F | Pin Ø20 L=87 | 2 | 4 |
| 13 | 690203006 | Fitting, 90angle 10 x 3/8" BSP | 2 | 4 |
| 14 | 690203002 | Fitting, straight 10 - 3/8" BSP | 2 | 4 |
| 15 | 690210210 | Tube bracket double ø14/ø14 | 16 | 20 |
| 16 | 690210211 | Top plate for tube-support double | 8 | 10 |
| 17 | 690210213 | Screw for tube-support double | 8 | 10 |
| 18 | 690103098 | Bolt M12x110 | 16 | 26 |
| 19 | 0422390 | Clamp for tine | 16 | 26 |
| 20 | 0422145 | Tine (10x80) | 16 | 26 |
| 20a | 633052000 | Tine complete | 16 | 26 |
| 21 | 690112011 | Binding nut 12mm | 32 | 52 |
| 22 | 0272270 | Facet plate Ø12 | 48 | 78 |
| 23 | 0431975 | Locking ring 30xø3 | 32 | 52 |
| 24 | 633055500 | Tine bracket for transverse locking system | 16 | 26 |
| 25 | 69512040K | Pin ø12,5x40 | 32 | 52 |
| 26 | 633055710 | Long locking bar for transverse locking system | 14 | 24 |
| 27 | 633055700 | Short locking bar for transverse locking system | 4 | 4 |
| 28 | 0422143 | Tine point (8x150) | 16 | 26 |
| 29 | 633052150 | Tine point (slicing plates) | 16 | 26 |
| 30 | 0248670 | Bolt (carrier bolt) M12x45 | 32 | 52 |
| 31 | 635151000 | Scale f/depth control | 1 | 1 |
| 32 | 635152000 | Pointer f/depth control | 1 | 1 |
| 33 | 690110020 | U-bolt M10x70x70x70 mm | 1 | 1 |
| 34 | 0272260 | Facet plate Ø10 | 2 | 2 |
| 35 | 0264060 | Self-locking nut M10 | 2 | 2 |
| 36 | 698500018 | Label for scale for depth control | 1 | 1 |
| 37 | 690201048 | Hydraulic hose 1/4" L= 3610 mm (right side section) | 1 | 0 |

The tabel continues →



| Pos. | Item no. | Designation | 6.3m | 8.2m |
|------|-----------|-----------------------------------------------------|------|------|
| 37 | 690201006 | Hydraulic hose 1/4" L= 3800 mm (left side section) | 1 | 0 |
| 37 | 690201022 | Hydraulic hose 1/4" L= 3140 mm | 0 | 2 |
| 38 | 690201044 | Hydraulic hose 1/4" L= 3460 mm (right side section) | 1 | 0 |
| 38 | 690201048 | Hydraulic hose 1/4" L= 3610 mm (left side section) | 1 | 0 |
| 38 | 690201060 | Hydraulic hose 1/4" L= 3000 mm | 0 | 2 |
| 39 | 690201009 | Hydraulic hose 1/4" L= 355 mm | 0 | 2 |
| 40 | 690201069 | Hydraulic hose 1/4" L= 450 mm | 0 | 2 |
| 41 | 690201063 | Hydraulic hose 1/4" L= 1600 mm | 0 | 2 |
| 42 | 690201016 | Hydraulic hose 1/4" L= 1830 mm | 0 | 2 |
| 43 | 69525087F | Pin Ø25 L=87 | 3 | 3 |
| 44 | 635055000 | Connecting link | 4 | 4 |
| 45 | 690103197 | Bolt M16x50 | 16 | 16 |

Spring-Board tine with traverse locking system



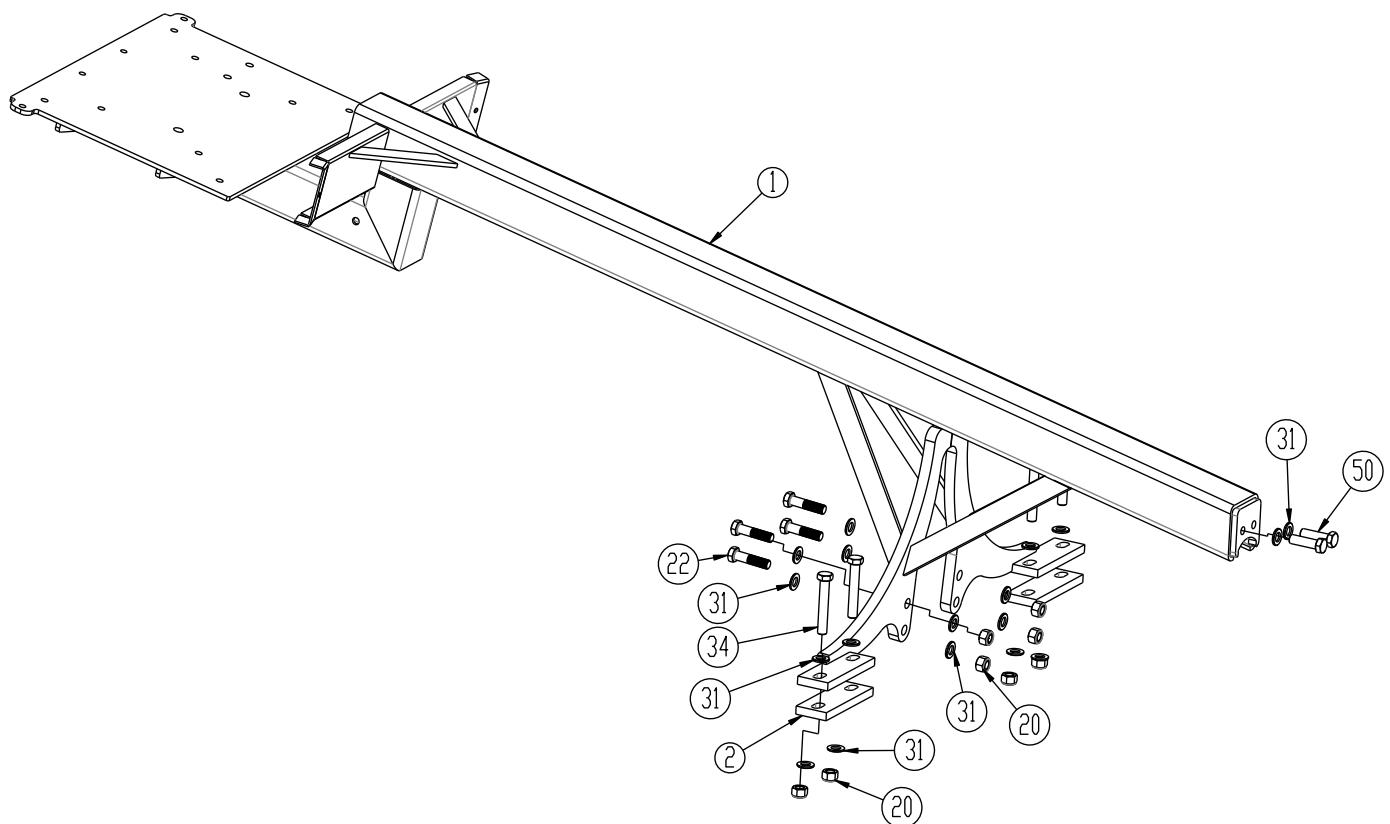
| Pos. | Item no. | Designation | Pcs. |
|------|-----------|--------------------------------------------------|------|
| 1 | 0422145 | Springboard tine 80x10 - lang | 1 |
| 2 | 633052150 | Slicing point (crust breaker) | 1 |
| 3 | 0422143 | Wearing point for Spring-Board tine | 1 |
| 4 | 0422390 | Clamp for Spring-Board tine | 1 |
| 5 | 633055710 | Traverse bar (long) for traverse locking system | 1 |
| 6 | 633055700 | Traverse bar (short) for traverse locking system | 1 |
| 7 | 633055500 | Bracket for traverse locking system | 1 |
| 8 | 0248670 | Carriage bolt M12x45 8.8 | 2 |
| 9 | 0272270 | Facet washer Ø12 | 4 |
| 10 | 0264070 | Self locking nut M12 | 3 |
| 11 | 69512040K | Pin Ø12,5 L = 40 St 52 Yellow Zink Plated | 2 |
| 12 | 690134000 | Ring clip 30xØ3 Galvanized | 2 |
| 13 | 690103098 | Bolt M12x110 10.9 | 1 |



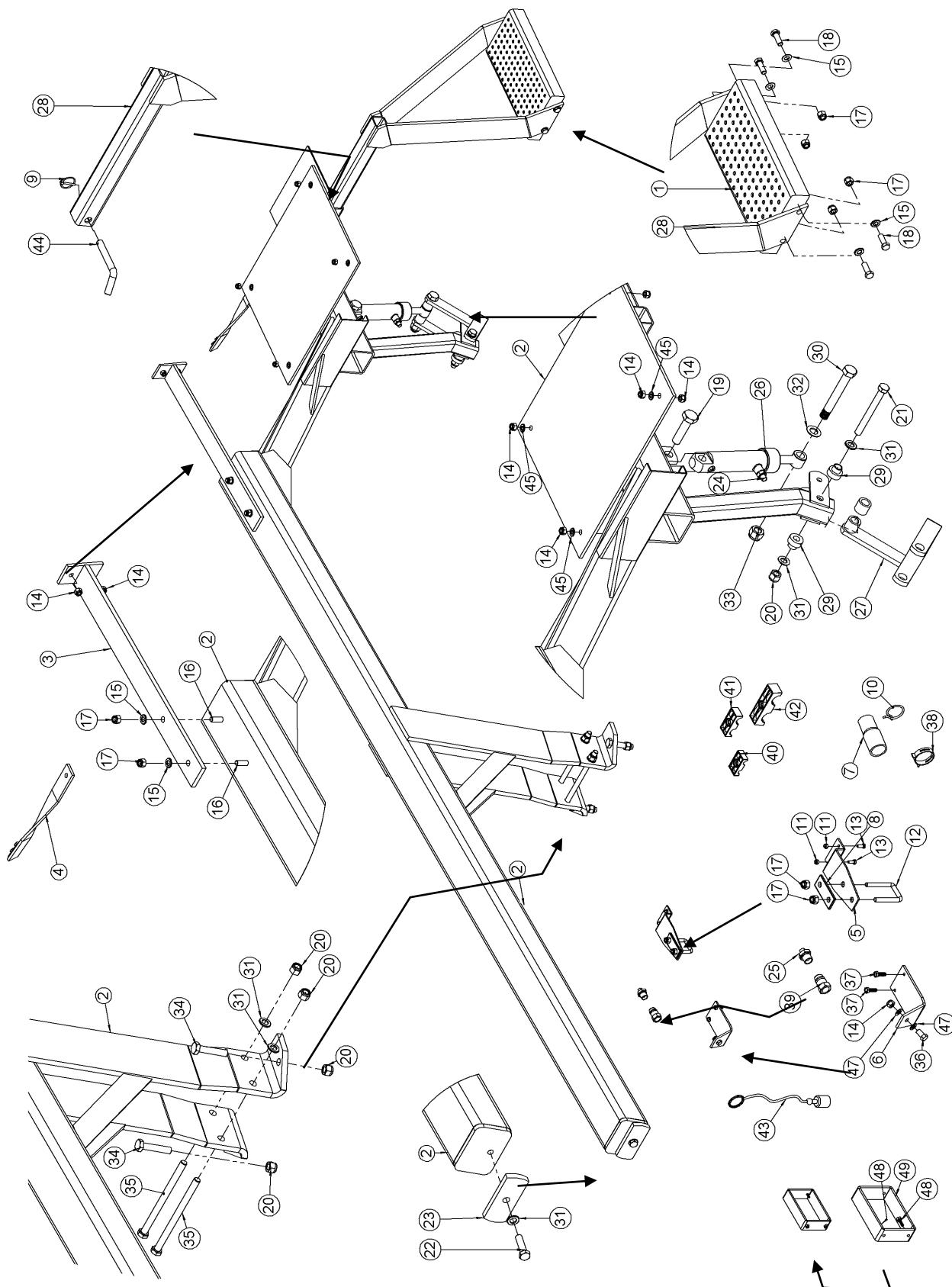
Spare parts list – mounting of Multi-Seeder

Spare parts and wearing parts for HE-VA Multi-Seeder can be found in a separate operation instructions which also contains a spare parts list.

4,5 meter



6,3 og 8,2 meter



| Pos. | Item no. | Designation | 4,5m | 6.3m | 8.2m |
|------|----------|------------------------------------------|------|------|------|
| 1 | 0487007 | Step panel 200 x 400 x 45 mm | 1 | 1 | 1 |
| 2 | 1132998 | Mounted frame for Grass-Roller | 1 | | |
| 2 | 1131850 | Mounted frame for Grass-Roller | | | 1 |
| 2 | 1131470 | Mounted frame for Grass-Roller | | 1 | |
| 3 | 1131960 | Mounted fan bracket | | | 1 |
| 3 | 1131950 | Bracket for fan | | 1 | |
| 4 | 1131840 | Mounted cable bracket | | 1 | 1 |
| 5 | 1131780 | Bracket for distribution plate | 8 | 8 | 16 |
| 6 | 1131770 | Wide holder short | | | 8 |
| 7 | 0489020 | Rubber bellow for drill hose | | | 8 |
| 8 | 1012520 | Clamping plate M12 | 8 | 8 | 16 |
| 9 | 0378200 | Ring split, ø4.5 mm, galv. No.2045321 | 1 | 1 | 1 |
| 10 | 0435100 | Clamp for drilling tube 38/12 | | | 8 |
| 11 | 0264040 | Self-locking nut M6, fzb DIN985 | 16 | 16 | 32 |
| 12 | 0382120 | U-bolt M12 | 8 | 8 | 16 |
| 13 | 0234280 | Steel set screw M6x16mm 8.8 fzb | 16 | 16 | 32 |
| 14 | 0264060 | Self-locking nut M10, fzg DIN985 | 4 | 6 | 6 |
| 15 | 0272270 | Facet plate 12mm, fzg | 8 | 12 | 12 |
| 16 | 0235360 | Steel set screw M12x40mm,8.8 fzg | | 2 | 2 |
| 17 | 0264070 | Self-locking nut M12, fzb DIN985 | 20 | 21 | 37 |
| 18 | 0235350 | Steel set screw M12x35mm, 8.8 fzb | 4 | 4 | 4 |
| 19 | 0236170 | Steel bolt M20x80mm, 8.8 fzg | | 1 | 1 |
| 20 | 0264090 | Self-locking nut M16, fzb DIN985 | 8 | 5 | 5 |
| 21 | 0235950 | Steel bolt M16x150mm, 8.8 fzb | | 1 | 1 |
| 22 | 0235840 | Steel bolt M16x60mm, 8.8 fzb | 4 | 1 | 1 |
| 23 | 1131120 | Clamping flange | | 1 | 1 |
| 24 | 0444500 | Hexagon nipple 1/4" Kon 01BK04 | | 2 | 2 |
| 25 | 0444490 | Hexagon nipple 1/2"x1/4" 02BP0804 | | 2 | 2 |
| 26 | 0468200 | Hydraulic cylinder 40/20 x99mm 2x1/4" | | 1 | 1 |
| 26a | 0468270 | Gasket set | | | |
| 27 | 1131130 | Mounted lifting bracket for wheel, short | | 1 | 1 |
| 28 | 30551200 | Mounted bracket for step panel | 1 | 1 | 1 |
| 29 | 1130290 | Bush | | 2 | 2 |
| 30 | 0236240 | Steel bolt M20x150mm, 8.8 fzb | | 1 | 1 |
| 31 | 0272290 | Facet plate 16mm, fzb | 18 | 11 | 11 |
| 32 | 0272310 | Facet plate 20mm, fzb | | 4 | 4 |
| 33 | 0264110 | Self-locking nut M20, fzb DIN985 | | 2 | 2 |
| 34 | 0235880 | Steel bolt M16x80mm, 8.8 fzb | | | 2 |
| 34 | 0235900 | Steel bolt M16x100mm, 8.8 fzb | | 4 | |

The tabel continues →

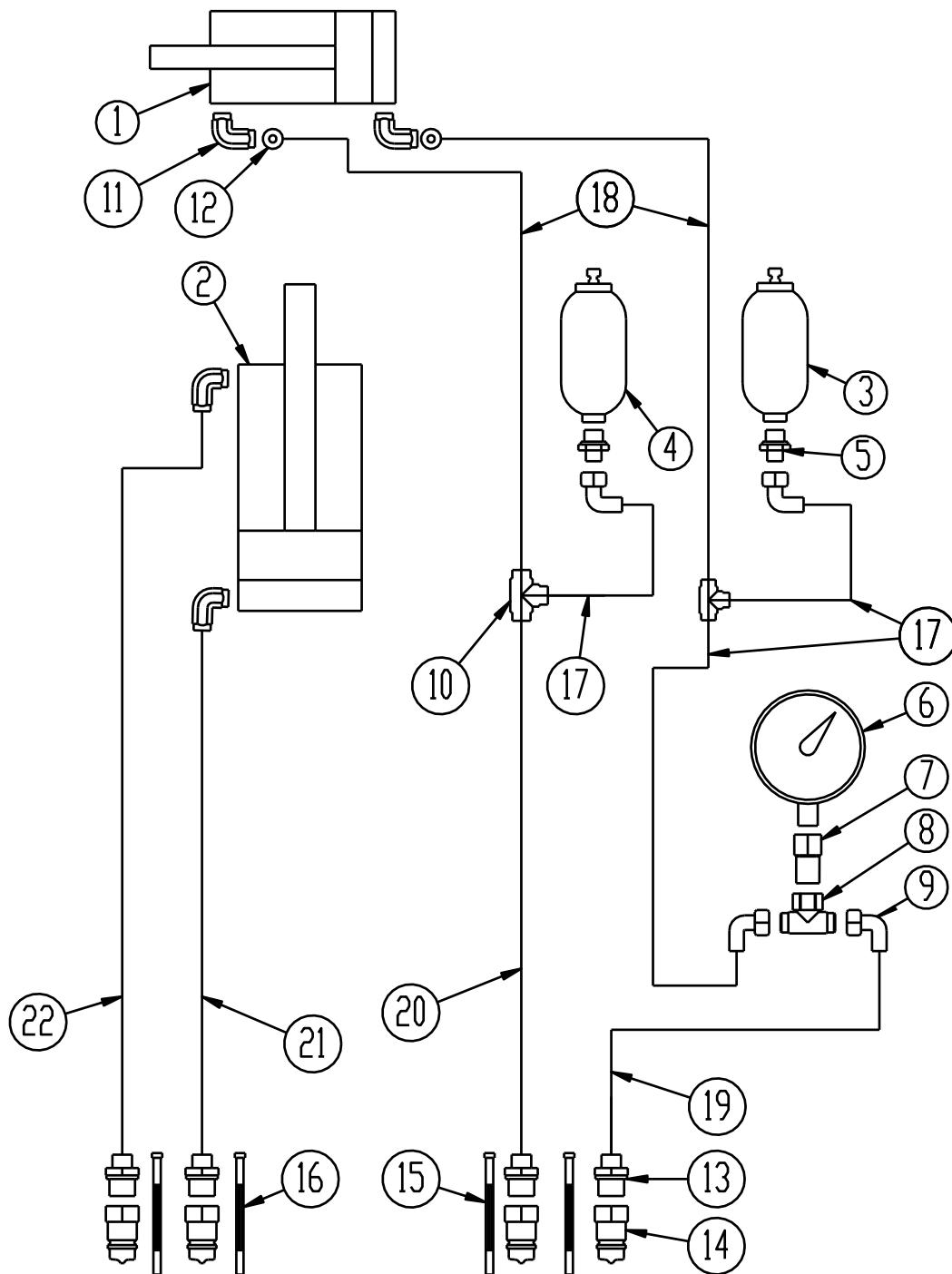


| Pos. | Item no. | Designation | | 6.3m | 8.2m |
|------|-----------|-------------------------------------------------------|---|------|------|
| 35 | 0242760 | Machine bolt M16x240mm, 4.6 fzb | | | 2 |
| 36 | 0235030 | Steel set screw M10x20mm, 8.8 fzb | | 8 | 8 |
| 37 | 0230825 | Screw Tapelite M8x25 6k.hov 211-08-025 | | | 16 |
| 38 | 0435110 | Clamp for tube 46/12 | | | 8 |
| 39 | 0444020 | Quick-coupling 1/2" Hanpart-kegle Sterling | | 2 | 2 |
| 40 | 0449430 | Tube-support double ø14-14mm green | | 1 | 1 |
| 41 | 0449700 | Tube-support double ø22-22mm green (at hydraulic fan) | | 1 | 1 |
| 42 | 0449730 | Tube-support double ø32-32mm green | | 2 | 5 |
| 43 | 0449020 | Dust cap 1/2" Std.,1/2" C51 | | 2 | 2 |
| 44 | 1030280 | Pin for wing, ø16x150mm | | 1 | 1 |
| 45 | 0235430 | Steel bolt M12x75mm, 8.8 fzb | 4 | 4 | 4 |
| 46 | 0230320 | Screw Tapelite M6x50 6k.hov 211-06-050 | | 2 | 7 |
| 47 | 0272260 | Facet plate 10mm, fzb DIN125B | | 8 | 18 |
| 48 | 0230290 | Screw Tapelite M6x20 6k.hov 211-06-020 | | 4 | 4 |
| 49 | 630327242 | Hose bracket square | | 2 | 2 |
| | 0455160 | Hydr. hose 1/4"x8000 mm | | | 1 |
| | 0455060 | Hydr. hose 1/4"x6900 mm | | 1 | |
| | 0454490 | Hydr. hose 1/2" x 1550mm | | | 1 |
| | 0434450 | Clamp Ø22-32mm, 9 mm wide | | 8 | 32 |
| | 0434531 | Clamp Ø68-85mm, 9 mm wide | | | 2 |
| | 0434531 | Clamp Ø68-85mm, 9 mm wide (at hydraulic fan) | | 2 | |
| 50 | 0235830 | Bolt M16x55 8.8 | 2 | 2 | |



Spare parts list Hydraulics

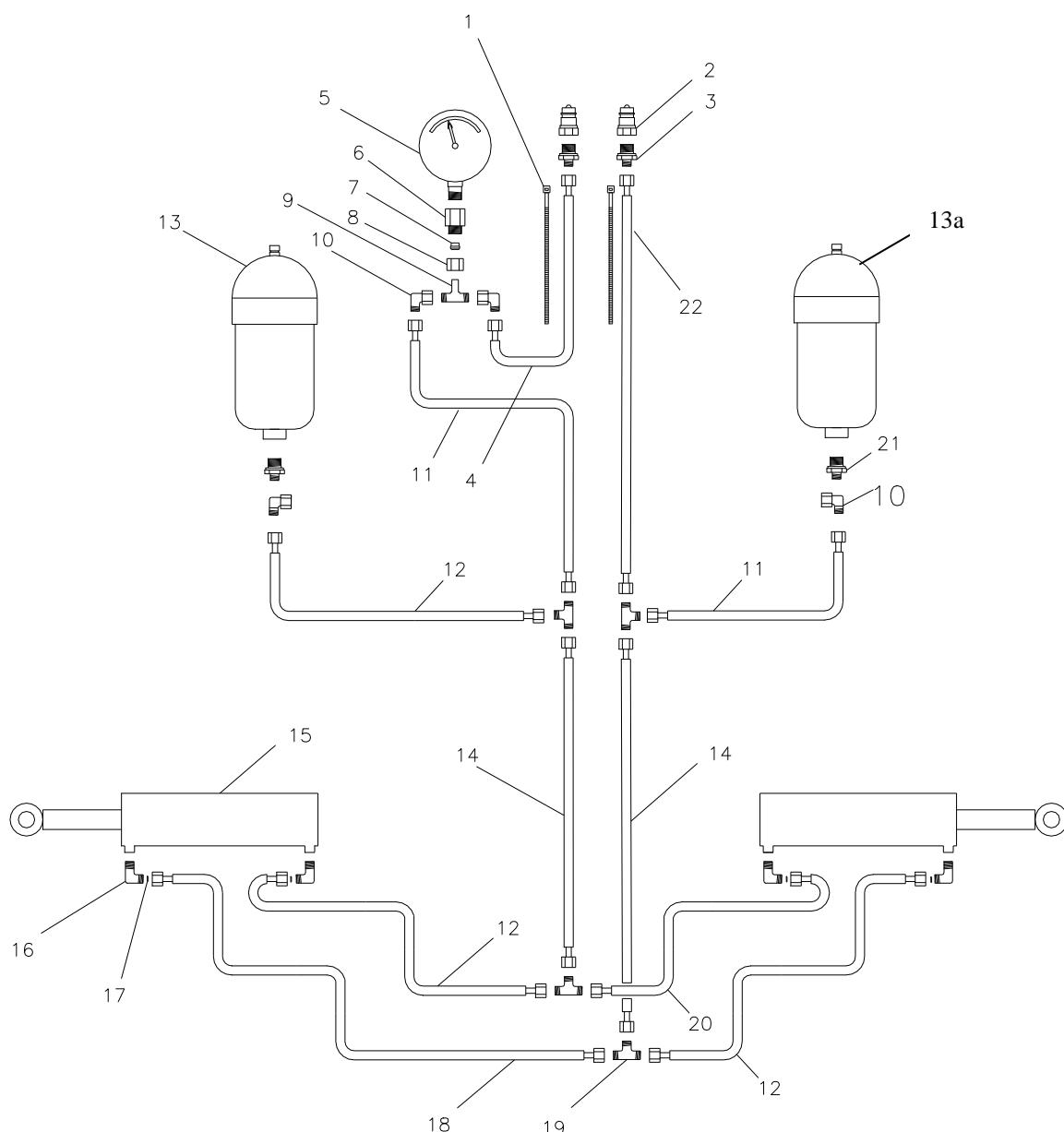
Tip, Folde & vægtoverføringssystem, rød og blå 4,5m



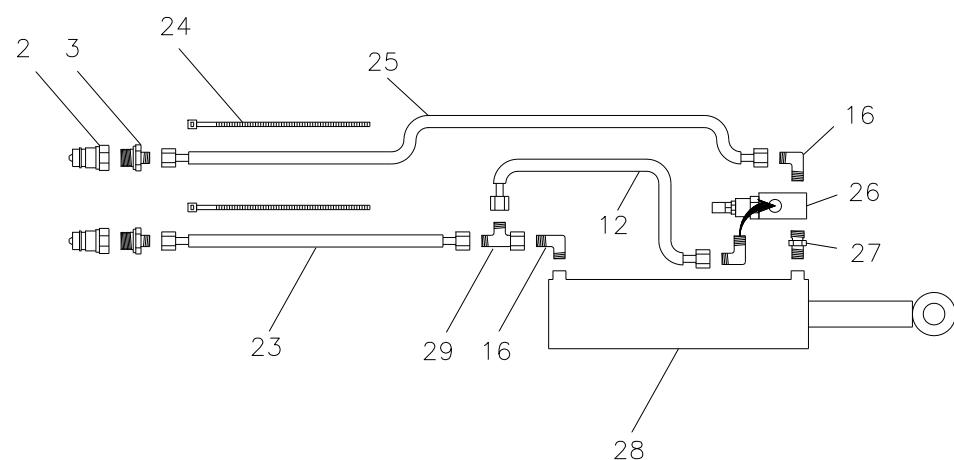
| Pos. | Item no. | Designation | 4,5 m |
|------|-----------|------------------------------------|-------|
| 1 | 630286167 | Cylinder folding 70/40 x 600 | 1 |
| 1a | 690200068 | Gasket set 70/40 | 1 |
| 2 | 690200109 | Cylinder tip 100/50 x 500 | 1 |
| 2a | 690200284 | Gasket set 100/50 Hydraflex | 1 |
| 3 | 690206410 | Accumulator H700R. 40 bar | 1 |
| 4 | 690206403 | Accumulator H700R 15 bar | 1 |
| 5 | 690203096 | Fitting straight M18x1,5 / ø10 | 2 |
| 6 | 690206822 | Manometer 250 bar Ø100mm | 1 |
| 7 | 690206823 | Manometer fitting 10- ½" | 1 |
| 8 | 690203014 | Fitting T - 10 with union nut | 1 |
| 9 | 0446678 | Fitting 90° Ø10 | 4 |
| 10 | 690203015 | Fitting T - 10 | 2 |
| 11 | 690203006 | Fitting, 90angle 10-3/8" Bsp | 4 |
| 12 | 690207901 | Restrictor 1mm | 2 |
| 13 | 690203003 | Fitting, straight 10- ½" BSP | 4 |
| 14 | 690203001 | Quick coupling, male E402 ½" | 4 |
| 15 | 690119202 | Cable straps (blue) | 2 |
| 16 | 690119203 | Cable straps (red) | 2 |
| 17 | 690201042 | Hydraulic hose L = 500 1/4" st/st | 3 |
| 18 | 690201021 | Hydraulic hose L = 2300 1/4" st/st | 2 |
| 19 | 690201237 | Hydraulic hose L = 2800 1/4" st/st | 1 |
| 20 | 690201022 | Hydraulic hose L = 3140 1/4" st/st | 1 |
| 21 | 690201006 | Hydraulic hose L = 3800 1/4" st/st | 1 |
| 22 | 690201029 | Hydraulic hose L = 4300 1/4" st/st | 1 |



Hydraulics for folding & weight transfer system (blue) 6.3m



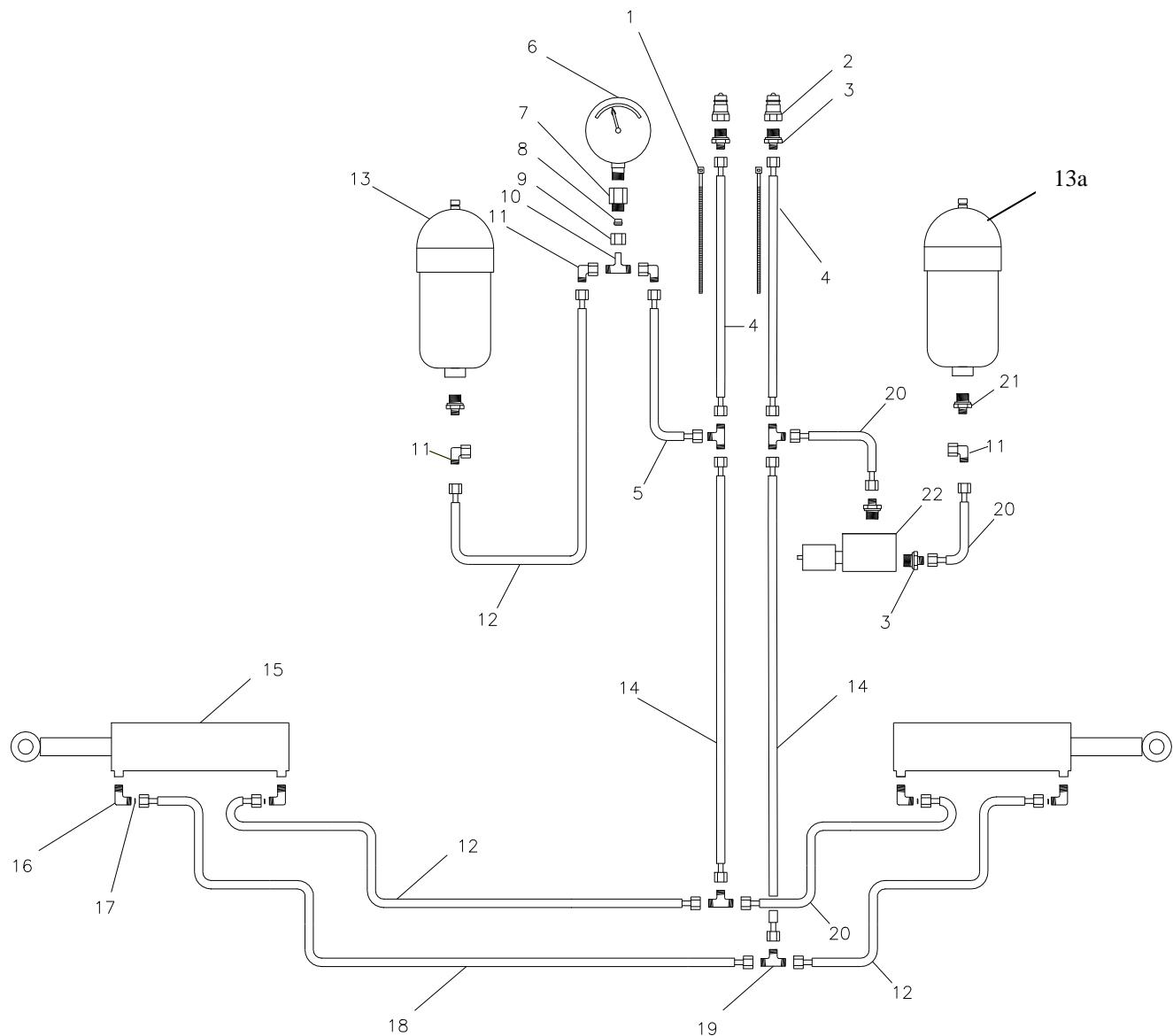
Tip cylinder for middle section (red) 6.3m



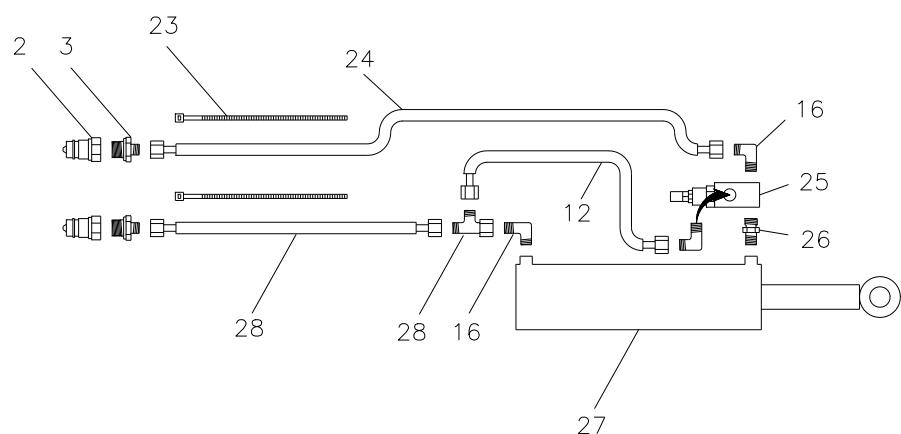
| Pos. | Item no. | Designation | 6.3 m |
|------|-----------|-------------------------------------------------|-------|
| 1 | 690119202 | Cable straps (blue) | 2 |
| 2 | 690203001 | Quick coupling, male E402 1/2" | 4 |
| 3 | 690203003 | Fitting, straight 10- 1/2" BSP | 4 |
| 4 | 690201006 | Hydraulic hose 3800mm 1/4 " st/st | 1 |
| 5 | 690206822 | Manometer 250 bar Ø100mm | 1 |
| 6 | 690206823 | Manometer fitting 10- 1/2" | 1 |
| 7 | 690203010 | Cutting ring Ø10 | 1 |
| 8 | 690203011 | Union nut Ø10 | 1 |
| 9 | 690203020 | Fitting EVT 10 L without union nut/cutting ring | 1 |
| 10 | 690203016 | Fitting 90angle 10mm | 4 |
| 11 | 690201042 | Hydraulic hose 500mm 1/4" st/st | 2 |
| 12 | 690201015 | Hydraulic hose 710mm 1/4" st/st | 4 |
| 13 | 690206410 | Accumulator H700R. 40 Bar | 1 |
| 13a | 690206403 | Accumulator H700R 15 bar | 1 |
| 14 | 690201016 | Hydraulic hose 1830mm 1/4" st/st | 2 |
| 15 | 630762047 | Cross cylinder 90/40x280mm (right + left) | 2 |
| 15A | 690200274 | Gasket set 90/40 | |
| 16 | 690203006 | Fitting, 90angle 10-3/8" Bsp | 7 |
| 17 | 690207901 | Restrictor 1mm | 4 |
| 18 | 690201055 | Hydraulic hose 1010mm 1/4" st/st | 1 |
| 19 | 690203015 | Fitting T10 | 4 |
| 20 | 690201059 | Hydraulic hose 350mm 1/4" st/st | 1 |
| 21 | 690203012 | Fitting, straight M18x1,5x12mm w/joint ring | 2 |
| 22 | 690201038 | Hydraulic hose 4000mm 1/4" st/st | 1 |
| 23 | 690201029 | Hydraulic hose 4300mm 1/4" st/st | 1 |
| 24 | 690119203 | Cable straps (red) | 2 |
| 25 | 690201045 | Hydraulic hose 4800mm 1/4" st/st | 1 |
| 26 | 690207104 | Adjustable pressure control valve 3/8" | 1 |
| 27 | 690202810 | Hexagon nipple 3/8"x 3/8" BSP-T | 1 |
| 28 | 690200020 | Tip cylinder Ø100/50 x 700mm, Ø35 mm | 1 |
| 28a | 690200028 | Gasket set 100/50 | |
| 29 | 690203004 | Fitting T10V | 1 |



Hydraulics for folding & weight transfer system (blue) 8.2m (Before serial no. 352600)

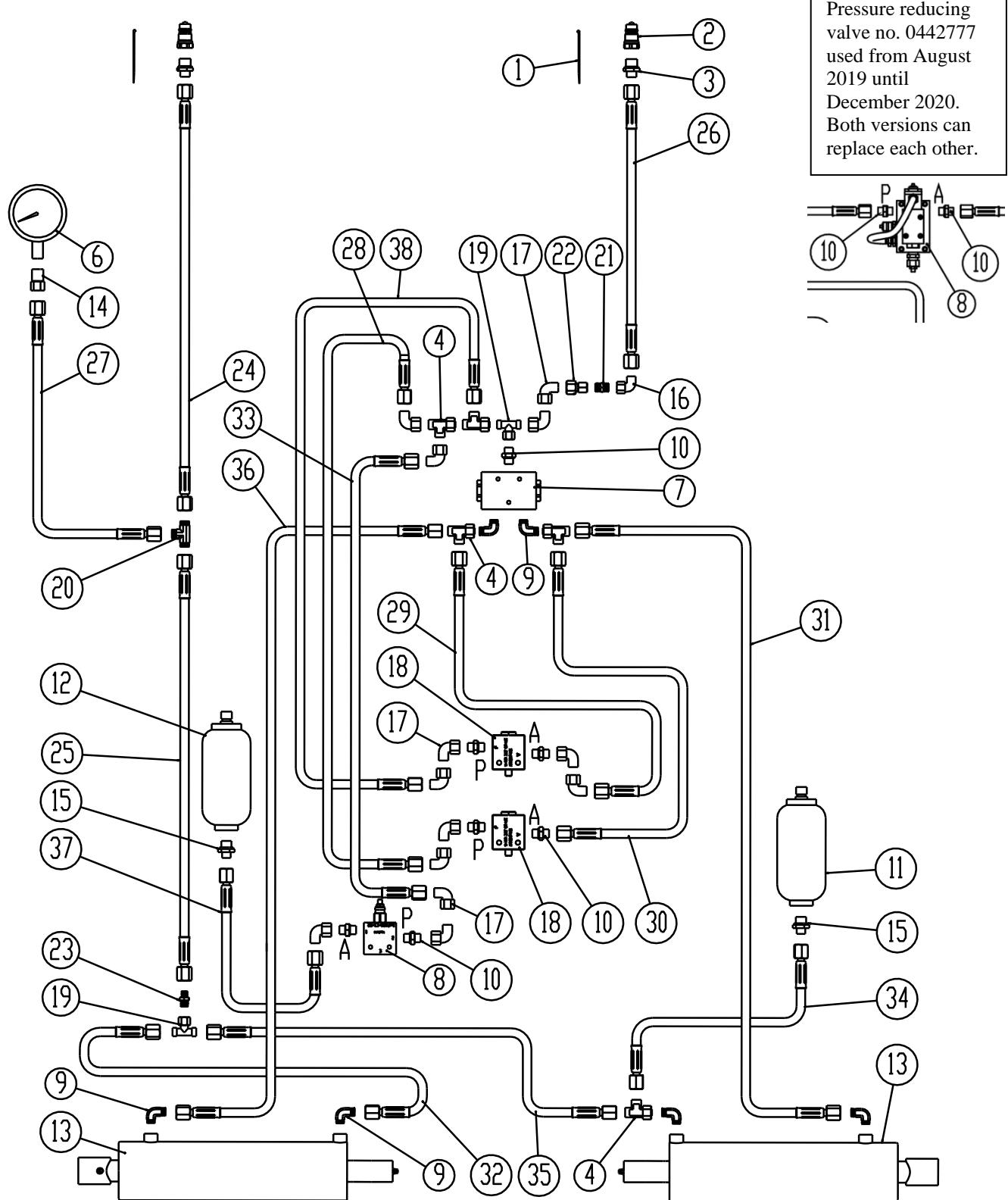


Tip cylinder for middle section (red) 8.2m



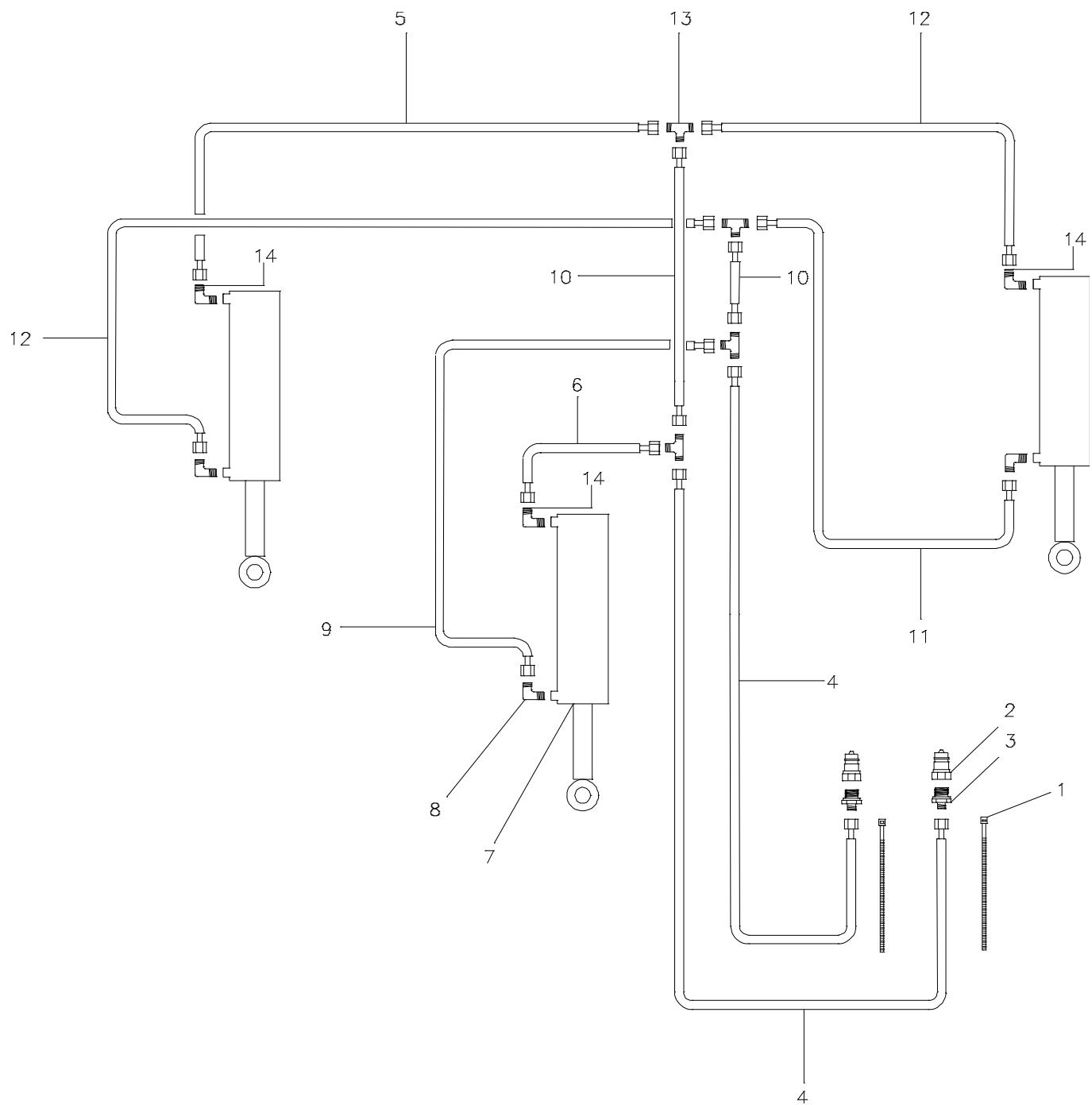
| Pos. | Item no. | Designation | 8.2m |
|------|-----------|---------------------------------------------------|------|
| 1 | 690119202 | Cable straps (blue) | 2 |
| 2 | 690203001 | Quick coupling, male E402 1/2" | 4 |
| 3 | 690203003 | Fitting, straight 10- 1/2" BSP | 4 |
| 4 | 690201048 | Hydraulic hose 3610mm 1/4" st/st | 2 |
| 5 | 690201051 | Hydraulic hose 250mm 1/4 " st/st | 1 |
| 6 | 690206822 | Manometer 250 bar Ø100mm | 1 |
| 7 | 690206823 | Manometer fitting 10- 1/2" | 1 |
| 8 | 690203010 | Cutting ring Ø10 | 1 |
| 9 | 690203011 | Union nut Ø10 | 1 |
| 10 | 690203020 | Fitting EVT 10 L without union nut / cutting ring | 1 |
| 11 | 690203016 | Fitting 90angle 10mm | 4 |
| 12 | 690201055 | Hydraulic hose 1010mm 1/4" st/st | 3 |
| 13 | 690206410 | Accumulator H700R. 40 Bar | 1 |
| 13a | 690206403 | Accumulator H700R 15 bar | 1 |
| 14 | 690201022 | Hydraulic hose 3140mm 1/4" st/st | 2 |
| 15 | 630762047 | Cross cylinder 90/40x280mm (right) | 2 |
| 15a | 690200274 | Gasket set 90/40 | |
| 16 | 690203006 | Fitting, 90angle 10-3/8" Bsp | 4 |
| 17 | 690207901 | Restrictor 1mm | 4 |
| 18 | 690201055 | Hydraulic hose 1010mm 1/4" st/st | 2 |
| 19 | 690203015 | Fitting T10 | 4 |
| 20 | 690201059 | Hydraulic hose 350mm 1/4" st/st | 3 |
| 21 | 690203012 | Fitting, straight M18x1,5x12mm w/joint ring | 2 |
| 22 | 690209453 | Depth stop valve, electric | 1 |
| 23 | 690119203 | Cable straps (red) | 2 |
| 24 | 690201025 | Hydraulic hose 5640mm 1/4" st/st | 1 |
| 25 | 690207104 | Adjustable pressure control valve 3/8" | 1 |
| 26 | 690202810 | Hexagon nipple 3/8"x 3/8" BSP-T | 1 |
| 27 | 690200014 | Tip cylinder Ø100/60 x 1000mm, Ø35 mm | 1 |
| 27a | 690200019 | Gasket set 100/60 | |
| 27 | 690200315 | Tip cylinder Ø110/60 x 1000 mm, Ø35/Ø35 mm | 1 |
| 27b | 690200019 | Gasket set 110/60 | |
| 28 | 690203004 | Fitting T10V | 1 |
| 29 | 690201047 | Hydraulic hose 4610mm 1/4" st/st | 1 |



Hydraulics for folding & weight transfer system (blue) 8.2m (From serial no. 352600)

| Pos. | Item no. | Designation | 8,2 m |
|------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|
| 1 | 690119202 | Straps (red) | 2 |
| 2 | 0444020 | Quick coupling, male E402 1/2" | 2 |
| 3 | 690203103 | Fitting, straight 10- 1/2" BSP | 2 |
| 4 | 690203017 | Fitting T12, w/O-ring | 6 |
| 5 | 690203115 | Fitting T12 | 2 |
| 6 | 690206822 | Manometer 250 bar, Ø100 | 1 |
| 7 | 0442775 | Flowdivider 3/8" 50/50% 10-20 l/min | 1 |
| 8 | 0442777 | Pressure reducing valve 3/8" From August 2019 - December 2020 | 1 |
| 8a | 0442776 | Pressure reducing valve 3/8", set to 30 bar, Port 1 = A, Port 2 = P, Notice: Can replace pos. 8 no. 0442777 From January 2021 | 1 |
| 9 | 690203106 | Fitting 90° 12-3/8" BSP | 6 |
| 10 | 0446754 | Fitting straight, Ø12 x 3/8" | 7 |
| 11 | 690206410 | Accumulator H700R 40 bar | 1 |
| 12 | 690206403 | Accumulator H700R 15 bar | 1 |
| 13 | 690200340 | Cylinder Ø100/40x285 | 2 |
| 14 | 690206825 | Manometer Fitting Ø12 x 1/4" | 1 |
| 15 | 690203097 | Fitting straight M18x1,5x10 mm | 2 |
| 16 | 0446678 | Fitting 90° adjustable Ø10 | 1 |
| 17 | 0446679 | Fitting 90° adjustable Ø12 | 13 |
| 18 | 690207108 | End stop valve V-101 3/8" DT NC | 2 |
| 19 | 690203125 | Fitting T12 L adjustable w/O-ring | 2 |
| 20 | 690203015 | Fitting T10 | 1 |
| 21 | 690203018 | Fitting straight ø10-ø10 | 2 |
| 22 | 0447529 | Fitting straight ø12-ø10 w/2 x O-rings | 2 |
| 23 | 0446755 | Fitting straight ø12-ø10 | 1 |
| 24 | 690201048 | Hydraulic hose 1/4" L = 3610 mm st/st | 1 |
| 25 | 690201022 | Hydraulic hose 1/4" L = 3140 mm st/st | 1 |
| 26 | 690201028 | Hydraulic hose 1/4" L = 6700 mm st/st | 1 |
| 27 | 690201009 | Hydraulic hose 1/4" L = 355 mm st/st | 1 |
| 28 | 0454172 | Hydraulic hose 3/8" L = 500 mm st/st | 1 |
| 29 | 0454172 | Hydraulic hose 3/8" L = 500 mm st/st | 1 |
| 30 | 0454172 | Hydraulic hose 3/8" L = 500 mm st/st | 1 |
| 31 | 0454182 | Hydraulic hose 3/8" L = 600 mm st/st | 1 |
| 32 | 0454182 | Hydraulic hose 3/8" L = 600 mm st/st | 1 |
| 33 | 0454172 | Hydraulic hose 3/8" L = 500 mm st/st | 1 |
| 34 | 1454160 | Hydraulic hose 3/8" L = 400 mm st/st | 1 |
| 35 | 0454130 | Hydraulic hose 3/8" L = 310 mm st/st | 1 |
| 36 | 0454234 | Hydraulic hose 3/8" L = 870 mm st/st | 1 |
| 37 | 0454140 | Hydraulic hose 3/8" L = 350 mm st/st | 1 |
| 38 | 0454182 | Hydraulic hose 3/8" L = 600 mm st/st | 1 |

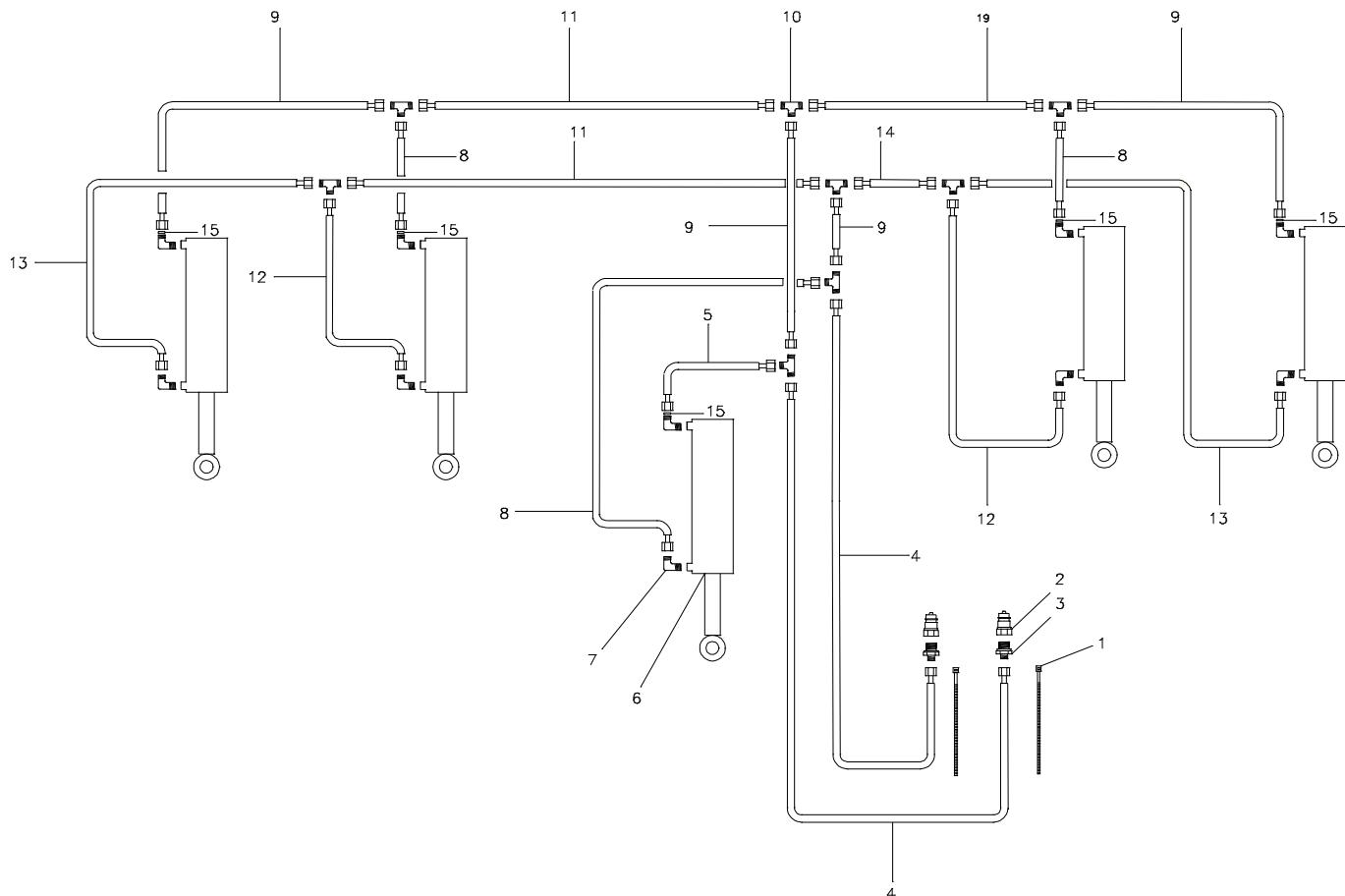


Hydraulics, front harrow (green) 4,5 - 6.3m

| Pos. | Item no. | Designation | 6.3 m |
|------|-----------|-----------------------------------|-------|
| 1 | 690119204 | Cable straps (green) | 2 |
| 2 | 690203001 | Quick coupling, male E402 1/2" | 2 |
| 3 | 690203003 | Fitting, straight 10- 1/2" BSP | 2 |
| 4 | 690201038 | Hydraulic hose 4000mm 1/4 " st/st | 2 |
| 5 | 690201044 | Hydraulic hose 3460mm 1/4" st/st | 1 |
| 6 | 690201064 | Hydraulic hose 820mm 1/4" st/st | 1 |
| 7 | 690200040 | Cylinder 50/30x155mm ø20/ø20 | 3 |
| 7a | 690200045 | Gasket set 50/30 | |
| 8 | 690203006 | Fitting, 90angle 10-3/8" Bsp | 6 |
| 9 | 690201055 | Hydraulic hose 1010mm 1/4 " st/st | 1 |
| 10 | 690201068 | Hydraulic hose 1950mm 1/4 " st/st | 2 |
| 11 | 690201006 | Hydraulic hose 3800mm 1/4" st/st | 1 |
| 12 | 690201048 | Hydraulic hose 3610mm 1/4" st/st | 2 |
| 13 | 690203015 | Fitting T10 | 4 |
| 14 | 690207901 | Restrictor 1mm | 3 |

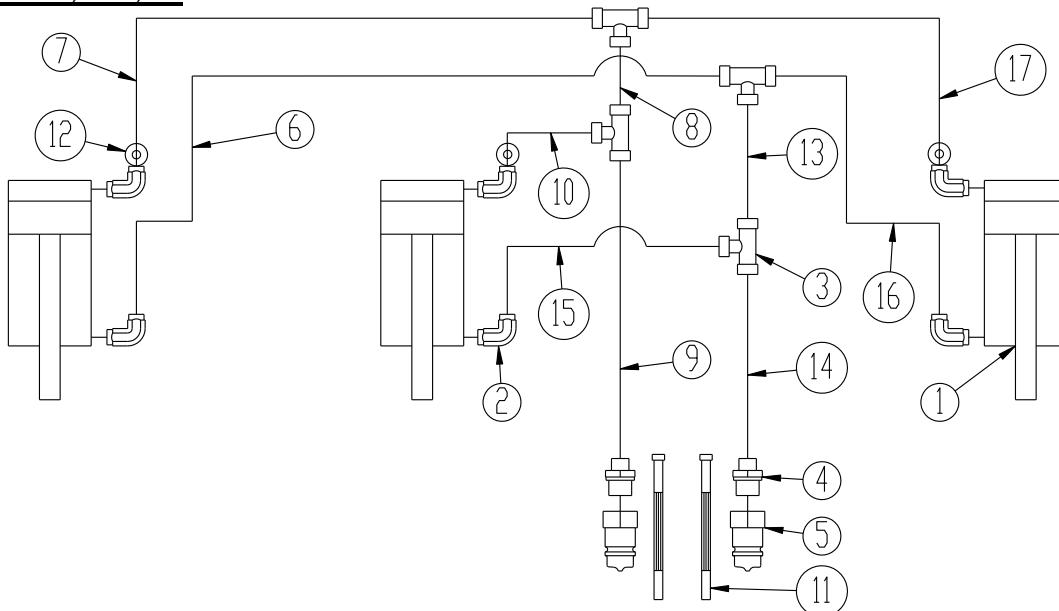


Hydraulics, front harrow (green) 8.2m



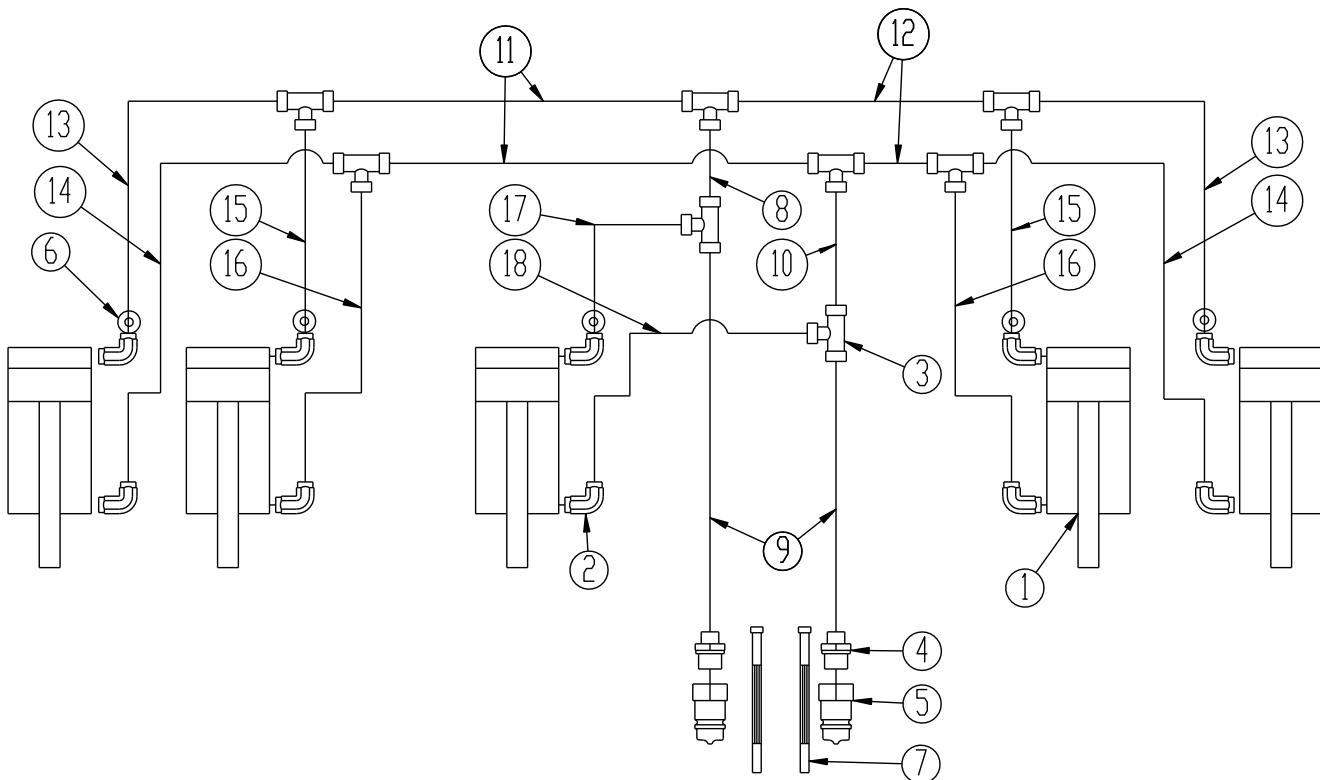
| Pos. | Item no. | Designation | 8.2m |
|------|-----------|-----------------------------------|------|
| 1 | 690119204 | Cable straps (green) | 2 |
| 2 | 690203001 | Quick coupling, male E402 1/2" | 2 |
| 3 | 690203003 | Fitting, straight 10- 1/2" BSP | 2 |
| 4 | 690201045 | Hydraulic hose 4800mm 1/4 " st/st | 2 |
| 5 | 690201042 | Hydraulic hose 500mm 1/4 " st/st | 1 |
| 6 | 690200040 | Cylinder 50/30x155mm ø20/ø20 | 5 |
| 6a | 690200045 | Gasket set 50/30 | |
| 7 | 690203006 | Fitting, 90angle 10-3/8" Bsp | 10 |
| 8 | 690201015 | Hydraulic hose 710mm 1/4 " st/st | 3 |
| 9 | 690201068 | Hydraulic hose 1950mm 1/4 " st/st | 4 |
| 10 | 690203015 | Fitting T10 | 8 |
| 11 | 690201237 | Hydraulic hose 2800mm 1/4 " st/st | 2 |
| 12 | 690201052 | Hydraulic hose 935mm 1/4 " st/st | 2 |
| 13 | 690201021 | Hydraulic hose 2300mm 1/4 " st/st | 2 |
| 14 | 690201060 | Hydraulic hose 3000mm 1/4 " st/st | 2 |
| 15 | 690207901 | Restrictor 1mm | 5 |



Spring-Board 4,5 - 6,3m

| Pos. | Item no. | Designation | 4,5m | 6,3m |
|------|-----------|---------------------------------------------------|------|------|
| 1 | 690200160 | Cylinder 50/30x155 Ø20,25/Clevis | 3 | 3 |
| 1a | 690200046 | Gasket set 50/30 Laizhou | | |
| 2 | 690203006 | Fitting, 90° 10-3/8" Bsp | 6 | 6 |
| 3 | 690203015 | Fitting T10 | 4 | 4 |
| 4 | 690203003 | Fitting straight 10- ½" BSP | 2 | 2 |
| 5 | 690203001 | Quick coupling, male E402 ½" | 2 | 2 |
| 6 | 690201023 | Hydraulic hose 3160 mm 1/4" st/st (right section) | 2 | |
| 6 | 690201048 | Hydraulic hose 3610 mm 1/4" st/st (right section) | | 1 |
| 7 | 690201060 | Hydraulic hose 3000 mm 1/4" st/st (right section) | 1 | |
| 7 | 690201044 | Hydraulic hose 3460 mm 1/4" st/st (right section) | | 1 |
| 8 | 690201020 | Hydraulic hose 1625 mm 1/4" st/st | 1 | |
| 8 | 690201032 | Hydraulikslange 1130 mm 1/4" st/st | | 1 |
| 9 | 690201005 | Hydraulic hose 3300 mm 1/4" st/st | 1 | |
| 9 | 690201038 | Hydraulikslange 4000 mm 1/4" st/st | | 1 |
| 10 | 690201055 | Hydraulic hose 1010 mm 1/4" st/st | 1 | |
| 10 | 690201051 | Hydraulikslange 250 mm 1/4" st/st | | 1 |
| 11 | | Straps, yellow | 2 | |
| 12 | 690207901 | Restrictor ø1mm | 3 | |
| 13 | 690201020 | Hydraulic hose 1625 mm 1/4" st/st | 1 | |
| 13 | 690201053 | Hydraulic hose 1260 mm 1/4" st/st | | 1 |
| 14 | 690201005 | Hydraulic hose 3300 mm 1/4" st/st | 1 | |
| 14 | 690201006 | Hydraulic hose 3800 mm 1/4" st/st | | 1 |
| 15 | 690201055 | Hydraulic hose 1010 mm 1/4" st/st | 1 | |
| 15 | 690201059 | Hydraulic hose 350 mm 1/4" st/st | | 1 |
| 16 | 690201005 | Hydraulic hose 3300 mm 1/4" st/st (left section) | 1 | |
| 16 | 690201006 | Hydraulic hose 3800 mm 1/4" st/st (left section) | | 1 |
| 17 | 690201023 | Hydraulic hose 3160 mm 1/4" st/st (left section) | 1 | |
| 17 | 690201048 | Hydraulic hose 3610 mm 1/4" st/st (left section) | | 1 |

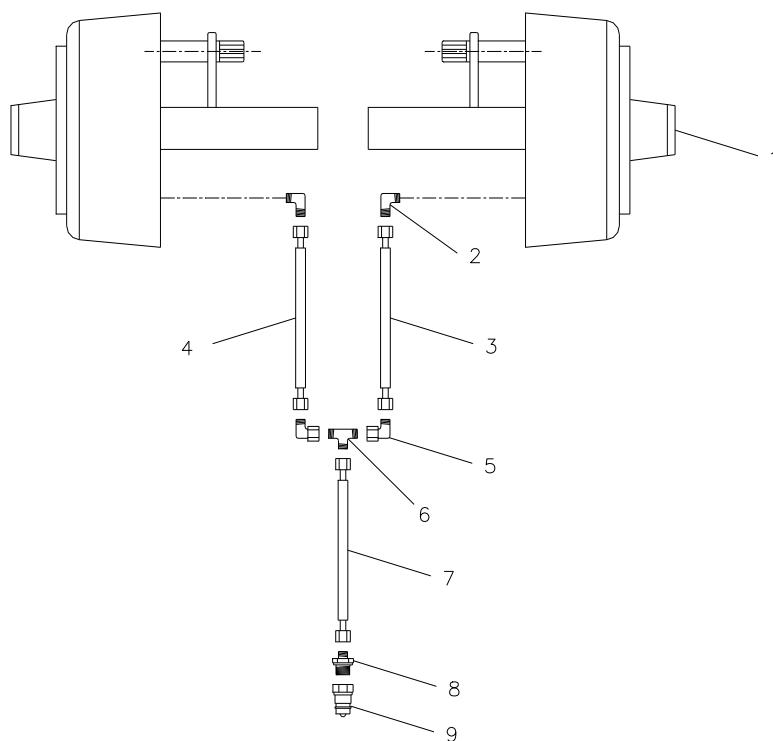


Spring-Board 8,2m

| Pos. | Item no. | Designation | 8,2m |
|------|-----------|-----------------------------------|------|
| 1 | 690200160 | Cylinder 50/30x155 Ø20,25/Clevis | 5 |
| 1a | 690200046 | Gasket set 50/30 Laizhou | |
| 2 | 690203006 | Fitting, 90° 10-3/8" Bsp | 10 |
| 3 | 690203015 | Fitting T10 | 8 |
| 4 | 690203003 | Fitting straight 10- ½" BSP | 2 |
| 5 | 690203001 | Quick coupling, male E402 ½" | 2 |
| 6 | 690207901 | Restrictor ø1mm | 5 |
| 7 | | Straps | 2 |
| 8 | 690201032 | Hydraulic hose 1130 mm 1/4" st/st | 1 |
| 9 | 690201047 | Hydraulic hose 4610 mm 1/4" st/st | 2 |
| 10 | 690201053 | Hydraulic hose 1260 mm 1/4" st/st | 1 |
| 11 | 690201063 | Hydraulic hose 1600 mm 1/4" st/st | 2 |
| 12 | 690201016 | Hydraulic hose 1830 mm 1/4" st/st | 2 |
| 13 | 690201060 | Hydraulic hose 3000 mm 1/4" st/st | 2 |
| 14 | 690201022 | Hydraulic hose 3140 mm 1/4" st/st | 2 |
| 15 | 690201009 | Hydraulic hose 355 mm 1/4" st/st | 2 |
| 16 | 690201069 | Hydraulic hose 350 mm 1/4" st/st | 2 |
| 17 | 690201051 | Hydraulic hose 250 mm 1/4" st/st | 1 |
| 18 | 690201059 | Hydraulic hose 350 mm 1/4" st/st | 1 |



Hydraulic brakes

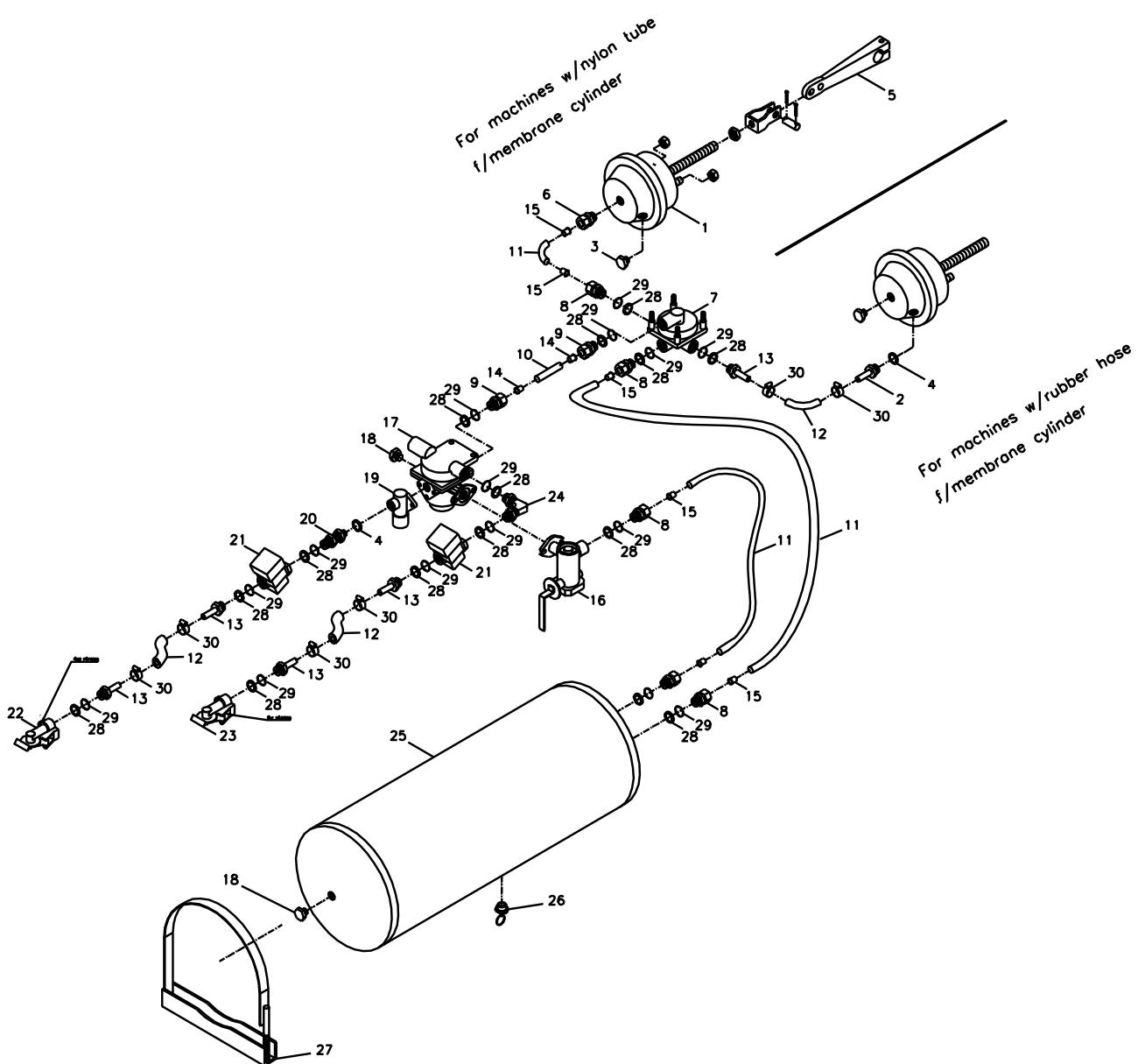
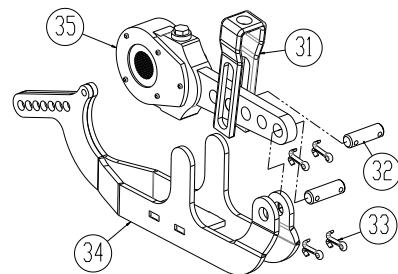


| Pos. | Item no. | Designation | Pcs. |
|------|-----------|---------------------------------------|------|
| 1 | | Look at pos. 4 page 18 | 2 |
| 2 | 690202921 | Fitting, 90angle 1/4"x 10 w/union nut | 2 |
| 3 | 690201018 | Hydraulic hose 1480mm 1/4" st/st | 1 |
| 4 | 690201053 | Hydraulic hose 1260mm 1/4" st/st | 1 |
| 5 | 690203016 | Fitting 90angle 10mm | 2 |
| 6 | 690203015 | Fitting T10 | 1 |
| 7 | 690201012 | Hydraulic hose 6000mm 1/4" st/st | 1 |
| 8 | 690203003 | Fitting, straight 10-1/2" BSP | 2 |
| 9 | 690203013 | Quick coupling 1/2" female BSP ISO567 | 2 |



Air brakes

New model brake arm and belongings
See pos. 31 - 35



| Pos. | Item no. | Designation | w/artificial tube for membrane cylinder | w/rubber hose for membrane cylinder |
|------|---------------|--------------------------------------|-----------------------------------------|-------------------------------------|
| 1 | 690190001 | Membrane cylinder 16" | 2 | 2 |
| 2 | 690190070 | Hose fitting M16x1,5 m/ Ø12 fitting | 0 | 2 |
| 3 | 690190005 | Test fitting, straight M16x1,5 | 2 | 2 |
| 4 | 690208102 | Bonded seal PP 45-12 | 1 | 3 |
| 5 | 690190010 | Mounting set, short yoke | 2 | 2 |
| 6 | 690202930 | Fitting, straight M16x1,5, Ø15 hose | 2 | 0 |
| 7 | 690190015 | Relay valve M22x1,5 | 1 | 1 |
| 8 | 690202941 | Fitting, straight M22x1,5, Ø15 hose | 6 | 4 |
| 9 | 690202940 | Fitting, straight M22x1,5, Ø10 hose | 2 | 2 |
| 10 | 690190080 | Artificial tube Ø10x1mm | 1 | 1 |
| 11 | 690190085 | Artificial tube Ø15x1,5mm | 4 | 2 |
| 12 | 690190105 | Hose Ø14,5x5mm | 2 | 4 |
| 13 | 690190073 | Hose fitting M22x1,5, m/Ø12 fitting | 4 | 6 |
| 14 | 690190090 | Support bushing for tube Ø10x1,5mm | 2 | 2 |
| 15 | 690190095 | Support bushing for tube Ø15x1,5mm | 8 | 4 |
| 16 | 690190020 | Brake power regulator M22x1,5 | 1 | 1 |
| 17 | 690190025 | Trailer air brake valve M22x1,5 | 1 | 1 |
| 18 | 690190026 | Plug | 2 | 2 |
| 19 | 690190035 | Relief valve | 1 | 1 |
| 20 | 690203420 | Fitting straight M16x1,5+M22x1,5 | 1 | 1 |
| 21 | 690190040 | Filter M22x1,5 | 2 | 2 |
| 22 | 690190045 | Hose coupling M22x1,5 (red) | 1 | 1 |
| 23 | 690190046 | Hose coupling M22x1,5 (yellow) | 1 | 1 |
| 24 | 690190030 | V-Fitting M22x1,5 | 1 | 1 |
| 25 | 690190050 | Air receiver 40ltr | 1 | 1 |
| 26 | 690190051 | Drainage valve | 1 | 1 |
| 27 | 690190052 | Suspension for air receiver | 2 | 2 |
| 28 | 690190060 | Pressure ring M22x1,5 | 15 | 15 |
| 29 | 690190065 | O-ring M22x1,5 | 15 | 15 |
| 30 | 690190305 | Clamp 15-24 mm | 4 | 8 |
| 31 | 7297510 | Samlebeslag, ny model | | 2 |
| 32 | 690190010-003 | Pin ø14x45 | | 4 |
| 33 | 690190010-002 | Steel split ø4x40 galvanized | | 8 |
| 34 | 7297582 | Brake lever adjustable, new model | | 2 |
| 35 | 7297597 | Brake lever for handbrake, new model | | 2 |





GOOD AS IT LOOKS!

AS GOOD AS



Oikeudet rakenteen muutoksiin pidätetään siitä erikseen ilmoittamatta.