Product: New Holland FX25/FX45/FX28/FX38/FX48/FX58 Forage Harvesters Service Repair Manual
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FX25, FX45, FX28, FX38, FX48, FX58 REPAIR MANUAL COMPLETE CONTENTS

The following pages are the collation of the contents pages from each section and chapter of the FX25 – FX58 Repair manual. Complete Repair part # 87051240.

The sections used through out all New Holland product Repair manuals may not be used for each product. Each Repair manual will be made up of one or several books. Each book will be labeled as to which sections are in the overall Repair manual and which sections are in each book.

The sections listed above are the sections utilized for the FX25 – FX58 Forage Harvesters.

Sample of manual. Download All 890 pages at:
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Chapter 1 - General

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SECTION 10 - ENGINE

BOOK 1 - 87051241

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SECTION 00 - GENERAL INFORMATION

Chapter 1 - General

CONTENT

GENERAL INSTRUCTIONS

IMPORTANT NOTICE

All maintenance and repair work described in this manual must be performed exclusively by NEW HOLLAND service technicians, in strict accordance with the instructions given and using any specific tools necessary.
Anyone performing the operations described herein without strictly following the instructions is personally responsible for any eventual injury or damage to property.

SHIMMING

For each adjustment operation, select adjusting shims and measure individually using a micrometer, then add up the recorder values. Do not rely on measuring the entire shimming set, which may be incorrect, or the rated value indicated for each on shim.

ROTATING SHAFT SEALS

For correct rotating shaft seal installation, proceed as follows:

- before assembly, allow the seal to soak in the oil it will be sealing for at least thirty minutes
- thoroughly clean the shaft and check that the working surface on the shaft is not damaged
- position the sealing lip facing the fluid; with hydrodynamic lips, take into consideration the shaft rotation direction and position the grooves so that they will deviate the fluid towards the inner side of the seal
- coat the sealing lip with a thin layer of lubricant (use oil rather than grease) and fill the gap between the sealing lip and the dust lip on double lip seals with grease
- insert the seal in its seat and press down using a flat punch, do not tap the seal with a hammer or mallet
- whilst inserting the seal, check that the it is perpendicular to the seat; once settled, make sure that it makes contact with the thrust element, if required
- to prevent damaging the seal lip on the shaft, position a protective guard during installation operations

O-RING SEALS

Lubricate the O-RING seals before inserting them in the seats, this will prevent them from overturning and twisting, which would jeopardise sealing efficiency.

SEALING COMPOUNDS

Apply one of the following sealing compounds on the mating surfaces marked with an X: RTV SILMATE, RHODORSIL CAF 1 or LOCTITE PLASTIC GASKET.
Before applying the sealing compound, prepare the surfaces as follows:

- remove any incrustations using a metal brush;
- thoroughly de-grease the surfaces using one of the following cleaning agents: trichlorethylene, petrol or a water and soda solution.

BEARINGS

When installing bearings it is advised to:

- heat the bearings to 80 to 90 ^{0}C before fitting on the shafts;
- allow the bearings to cool before installing them from the outside.

SPRING PINS

When fitting split socket spring pins, ensure that the pin notch is positioned in the direction of the force required to stress the pin.
Spiral spring pins do not require special positioning.

SPARE PARTS

Only use original NEW HOLLAND spare parts bearing the logo shown below.

Only original spare parts guarantee the same quality, duration and safety as they are the same parts that are assembled during production.
Only original NEW HOLLAND parts can offer this guarantee.
When ordering spare parts, always provide the following information:
Before applying the sealing compound, prepare the surfaces as follows:

- Forage Harvester model (commercial name) and serial number
- engine type and number
- part number of the ordered part, which can be found in the "Microfiches" or the "Spare Parts Catalogue", used for order processing

TOOLS

The tools that NEW HOLLAND propose and illustrate in this manual are:

- specifically researched and designed for use with NEW HOLLAND Forage Harvesters
- essential for reliable repair operations
- accurately built and rigorously tested so as to offer efficient and long-lasting operation

By using these tools, Repair Personnel will benefit from:

- operating in optimal technical conditions
- obtaining the best results
- saving time and effort
- working in safe conditions

NOTE

Wear limit values indicated for certain parts should be considered to be recommended, but not binding. The terms "front", "rear", "right-hand" and "left-hand" (when referred to different parts) are intended as seen from the driving position with the Forage Harvester in the normal direction of movement.

MOVING THE FORAGE HARVESTER WITH THE BATTERY REMOVED

External power supply cables should only be connected to the respective positive and negative cable terminals, using efficient clamps that guarantee adequate and secure contact.
Disconnect all services (lights, windshield wipers, etc.) before starting the Forage harvester.
If the Forage harvester electrical system requires checking, carry out operations with the power supply connected. Once checking is completed, disconnect all services and switch off the power supply before disconnecting the cables.

SAFETY REGULATIONS

WARNING AND DANGER SYMBOL

This warning symbol points out important personal safety messages.
Carefully read the following safety regulations and observe advised precautions in order to avoid potential hazards and safeguard your health and safety.
In this manual the symbol is accompanied by the following key-words:

***WARNING** - Warnings concerning unsuitable repair operations that may jeopardise the safety of Repair personnel.*

***DANGER** - Specific warnings concerning potential hazards for operator safety or for other persons directly or indirectly involved.*

ACCIDENT PREVENTION

Most accidents or injuries that occur in workshops are the result of non-observance of simple and fundamental safety regulations. For this reason, IN MOST CASES THESE ACCIDENTS CAN BE AVOIDED by foreseeing possible causes and consequently acting with the necessary caution and care.

Accidents may occur with all types of machine, regardless of how well the machine in question was designed and built.

A careful and judicious service technician is the best guarantee against accidents.

Precise observance of the most basic safety rule is normally sufficient to avoid many serious accident

DANGER

Never carry out any cleaning, lubrication or maintenance operations when the engine is running.

SAFETY URLE

General guidelines

- Carefully follow specified repair and maintenance procedures.
- Do not wear rings, wristwatches, jewellery, unbuttoned or loose articles of clothing such as: ties, torn clothing, scarves, open jackets or shirts with open zips that may remain entangled in moving parts. It is advised to wear approved safety clothing, e.g.: non-slip footwear, gloves, safety goggles, helmets, etc.
- Do not carry out repair operations with someone sitting in the driver's seat, unless the person is a trained technician who is assisting with the operation in question.
- Do not operate the machine or use any of the implements from different positions, other than the driver's seat.
- Do not carry out operations on the machine with the engine running, unless specifically indicated.
- Stop the engine and check that the hydraulic circuits are pressure-free before removing caps, covers, valves, etc.
- All repair and maintenance operations must be carried out using extreme care and attention.
- Service steps and platforms used in the workshop or elsewhere should be built according to standard accident prevention regulations.
- Disconnect the batteries and label all controls to indicate that the Forage Harvester is being serviced. Any parts that are to be raises must be locked in position.
- Do not check or fill fuel tanks, accumulator batteries, nor use starting liquid when smoking or near naked flames, as these fluids are inflammable.
- Brakes are inoperative when manually released for repair or maintenance purposes. Use blocks or similar devices to control the machine in these conditions.

- The fuel nozzle should always be in contact with the filling aperture. Maintain this position until filling operations are completed in order to avoid possible sparks caused by the accumulation of static electricity.

- Only use specified towing points for towing the Forage Harvester. Connect parts carefully. Make sure that all pins and/or locks are secured in position before applying traction. Never remain near the towing bars, cables or chains that are operating under load.

- Transport Forage Harvesters that cannot be driven using a trailer or a low-loading platform trolley, if available.

- When loading or unloading the Forage Harvester from the trailer (or other means of transport), select a flat area capable of sustaining the trailer or truck wheels. Firmly secure the Forage Harvester to the truck or trailer and lock the wheels in the position used by the carrier.

- Electric heaters, battery-chargers and similar equipment must only be powered by auxiliary power supplies with efficient ground insulation to avoid electrical shock hazards.

- Always use suitable hoisting or lifting devices when raising or moving heavy parts.

- Take extra care if bystanders are present.

- Never pour gasoline or diesel oil into open, wide or low containers.

- Never use gasoline, diesel oil or other inflammable liquids as cleaning agents. Use non-inflammable, non toxic commercially available solvents.

- Wear safety goggles with side guards when cleaning parts with compressed air.

- Limit the air pressure to a maximum of 2.1 bar, according to local regulations.

- Do not run the engine in confined spaces without suitable ventilation.

- Do not smoke, use naked flames, or cause sparks in the area when fuel filling or handling highly inflammable liquids.

- Never use naked flames for lighting when working on the machine or checking for leaks.

- All movements must be carried out carefully when working under, on or near the Forage Harvester. Wear protective equipment: helmets, goggles and special footwear.

- When carrying out checks with the engine running, request the assistance of an operator in the driver's seat. The operator must maintain visual contact with the service technician at all times.

- If operating outside the workshop, position the Forage Harvester on a flat surface and lock in position. If working on a slope, lock the Forage Harvester in position. Move to a flat area as soon as is safely possible.

- Damaged or bent chains or cables are unreliable. Do not use them for lifting or towing. Always use suitable protective gloves when handling chains or cables.

- Chains should always be safely secured. Make sure that the hitch-up point is capable of sustaining the load in question. Keep the area near the hitch-up point, chains or cables free of all bystanders.

- Maintenance and repair operations must be carried out in a CLEAN and DRY area. Eliminate any water or oil spillage immediately.

- Do not create piles of oil or grease-soaked rags as they represent a serious fire hazard. Always store rags in a closed metal container.
  Before starting the Forage harvester or implements, make sure that the driver's seat is locked in position. Also check that there are no persons within the Forage harvester or implement range of action.

- Empty pockets of all objects that may fall unobserved into the Forage harvester parts.

- In the presence of protruding metal parts, use protective goggles or goggles with side guards, helmets, special footwear and gloves.

- When welding, use protective safety devices: tinted safety goggles, helmets, special overalls, gloves and footwear. All persons present in the area where welding is taking place must wear tinted goggles. NEVER LOOK DIRECTLY AT THE WELDING ARC WITHOUT SUITABLE EYE PROTECTION.

- Metal cables tend to fray with repeated use. Always use suitable protective devices (gloves, goggles, etc.) when handling cables.

- Handle all parts carefully. Do not put your hands or fingers between moving parts. Wear suitable safety clothing – safety goggles, gloves and shoes.

START UP

- Never run the engine in confined spaces that are not equipped with adequate ventilation for exhaust gas extraction.

- Never place the head, body, limbs, feet, hands or fingers near fans or rotating belts.

ENGINE

- Always loosen the radiator cap slowly before removing it to allow any remaining pressure in the system to be discharged. Filling up with coolant should only be carried out with the engine stopped or idling (if hot)..

- Never fill up with fuel when the engine is running, especially if hot, in order to prevent the outbreak of fire as a result of fuel spillage.

- Never check or adjust fan belt tension when the engine is running.
  Never adjust the fuel injection pump when the Forage Harvester is moving.

- Never lubricate the Forage Harvester when the engine is running.

ELECTRICAL SYSTEMS

- If it is necessary to use auxiliary batteries, remember that both ends of the cables must be connected as follows: (+) with (+) and (–) with (–). Avoid short-circuiting the terminals. GAS RELEASED FROM BATTERIES IS HIGHLY INFLAMMABLE. During charging, leave the battery compartment uncovered to improve ventilation. Never check the battery charge using ”jumpers” (metal objects placed on the terminals). Avoid sparks or flames near the battery zone. Do not smoke to prevent explosion hazards.

- Before servicing operations, check for fuel or current leaks.Eliminate any eventual leaks before proceeding with work.

- Never charge batteries in confined spaces.Make sure that there is adequate ventilation in order to prevent accidental explosion hazards as a result of the accumulation of gases released during charging operations.

- Always disconnect the batteries before performing any kind of servicing on the electrical system.

HYDRAULIC SYSTEMS

- A liquid leaking from a tiny hole may be almost invisible but, at the same time, be powerful enough to penetrate the skin. Therefore,NEVER USE HANDS TO CHECK FOR LEAKS but use a piece of cardboard or wood for this purpose. If any liquid penetrates skin tissue, call for medical aid immediately. Failure to treat this condition with correct medical procedure may result in serious infection or dermatosis.

- In order to check the pressure in the system use suitable instruments.

WHEELS AND TYRES

- Make sure that the tyres are correctly inflated at the pressure specified by the manufacturer.
  Periodically check the rims and tyres for damage.

- Stand away from (at the side of) the tyre when checking inflation pressure.

- Do not use parts of recovered wheels as incorrect welding brazing or heating may weaken and eventually cause damage to the wheel.

- Never cut or weld a rim mounted with an inflated tyre.

- To remove the wheels, lock both the front and rear wheels. After having raised the Forage Harvester, position supports underneath, according to regulations in force.

- Deflate the tyre before removing any objects that may be jammed in the tyre tread.

- Never inflate tyres using inflammable gases, as this may result in explosions and injury to bystanders.

REMOVAL AND RE-FITTING

- Lift and handle all heavy parts using suitable hoisting equipment. Make sure that parts are sustained by appropriate hooks and slings. Use the hoisting eyebolts for lifting operations. Extra care should be taken if persons are present near the load to be lifted.

- Handle all parts carefully. Do not put your hands or fingers between parts. Wear suitable safety clothing - safety goggles, gloves and shoes.

- Avoid twisting chains or metal cables. Always wear safety gloves when handling cables or chains.

EXPLANATION OF MACHINE AND ATTACHMENT SERIAL NUMBERS

MACHINE SERIAL NUMBER

FX300-375-450/ FX9630-9640-9645	Series 01 to 14
FX25-45	Series 01 to 06

Example : n° 2901001

2901001: The first two digits identify the model:

FX300 = 27	9630 = 19
FX375 = 29	9640 = 21
FX450 = 30	9645 = 22
FX25 = 39	
FX45 = 47	

29**01**001: The third and the fourth digit indicates the serie in which the machine was made.

2901**001**: The last 3 digits are a sequential number for each model within a serie.

So this machine is the first FX375 of serie 01.

FX300-375-450/ FX25-45	Series 5033 to 5080
FX28-58 FX28NA-58NA	Series 8083 to ...

Example : n° 305033001

305033001: The first two digits identify the model within a product line:

FX300 = 27	FX25 = 39
FX375 = 29	
FX450 = 30	FX45 = 47
FX28 = 13	FX28NA = 23
FX38 = 14	FX38NA = 24
FX48 = 15	
FX58 = 16	FX58NA = 26

30**5**033001 : The third digit indicates the product line. There are 5 product lines in Zedelgem:

TX/TF combine harvesters:	1
TC/L combine harvesters:	2
Combine headers:	3
Balers:	4
Forage Harvesters:	5

305**033**001 : These 3 digits indicate the batch in which the machine was made.

30**5033**001 : Product line number (5) and batch (033) together form the series number (5033).

305033**001** : The last 3 digits are a sequential number for each model within a batch.

Summarizing we can say that this machine is the first FX 450 of serie 5033.

ATTACHMENT SERIAL NUMBER

PRODUCT IDENTIFICATION

Example : n° 5320502

5320502 : Code for header type

53**20**502 : Serie in which the machine was made.

5320**502** : Attachment number and colour

AVAILABLE HEADERS

300N6 (Fiatagri):	5320501
300N6 (New Holland):	5320001

340WX, 350Wx, 360N

These headers have a nonsequential serial numbering. For details ask your national service organization.

CONVERSION CHART

Linear					
1 mm	=	0.03937 in	1 in	=	25.4 mm
1 Km	=	0.6214 miles	1 mile	=	1.6093 km
1 m	=	3.281 ft	1 ft	=	0.3048 m
Area					
1 ha	=	2.471 acre	1 acre	=	0.4047 ha
Volume					
1 litre	=	0.0063 barrel	1 barrel	=	158.987 litre
1 litre	=	0.028 US bushel	1 US bushel	=	35.2391 litre
1 litre	=	0.2642 US gal	1 US gal	=	3.7853 litre
1 litre	=	1.057 US quart	1 US quart	=	0.9464 litre
1 mm^3	=	0.061 in^3	1 in^3	=	16387 mm^3
Weight					
1 kg	=	2.204 pound	1 pound	=	0.4536 kg
Torque					
1 Nm	=	0.7376 lbf.ft	1 lbf ft	=	1.3558 Nm
Power					
1 kW	=	1.358 hp	1 hp	=	0.746 kW
Pressure					
1 bar	=	14.505 lbf/in^2(psi)	1 lbf/in^2(psi)	=	0.06894 bar
1 kPa	=	0.145 lbf/in^2(psi)	1 lbf/in^2(psi)	=	6.894 kPa
1 pa	=	10 –5 bar	1 bar	=	100 kPa
Temparature					
1 °C	=	((1.8 x ° C) + 32) ° F	1 °F	=	(0.56 x (° F – 32))°C

MINIMUM HARDWARE TIGHTENING TORQUES

IN NEWTON-METRES - Nm (FOOT POUNDS - LBF. FT) FOR NORMAL ASSEMBLY APPLICATIONS

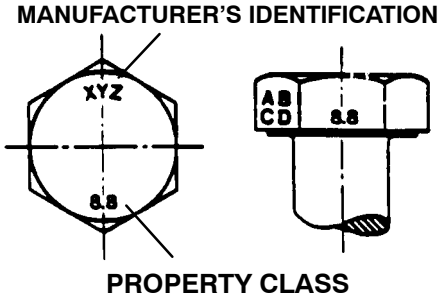
METRIC HARDWARE AND LOCKNUTS

NOMINAL SIZE	CLASS 5.8		CLASS 8.8		CLASS 10.9		LOCKNUT CL.8 W/CL8.8 BOLT
	UNPLATED	PLATED W/ZnCr	UNPLATED	PLATED W/ZnCr	UNPLATED	PLATED W/ZnCr	
M4	1.7 (15*)	2.2 (19*)	2.6 (23*)	3.4 (30*)	3.7 (33*)	4.8 (42*)	1.8 (16*)
M6	5.8 (51*)	7.6 (67*)	8.9 (79*)	12 (102*)	13 (115*)	17 (150*)	6.3 (56*)
M8	14 (124*)	18 (159*)	22 (195*)	28 (248*)	31 (274*)	40 (354*)	15 (133*)
M10	28 (21)	36 (27)	43 (32)	56 (41)	61 (45)	79 (58)	30 (22)
M12	49 (36)	63 (46)	75 (55)	97 (72)	107 (79)	138 (102)	53 (39)
M16	121 (89)	158 (117)	186 (137)	240 (177)	266 (196)	344 (254)	131 (97)
M20	237 (175)	307 (226)	375 (277)	485 (358)	519 (383)	671 (495)	265 (195)
M24	411 (303)	531 (392)	648 (478)	839 (619)	897 (662)	1160 (855)	458 (338)

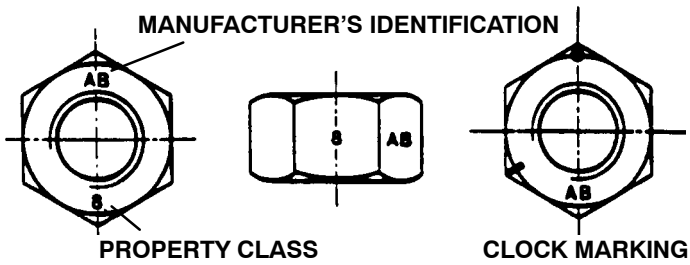
NOTE: Torque values shown with * are inch pounds.

IDENTIFICATION

HEX CAP SCREW AND CARRIAGE BOLTS CLASSES 5.6 AND UP



HEX NUTS AND LOCKNUTS CLASSES 05 AND UP



MINIMUM HARDWARE TIGHTENING TORQUES

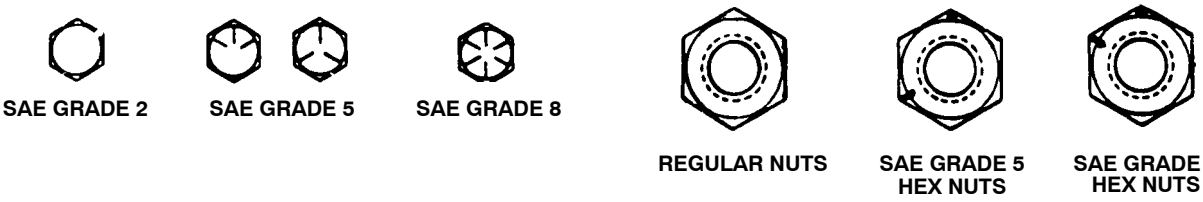
IN NEWTON-METRES - Nm (FOOT POUNDS - LBF. FT) FOR NORMAL ASSEMBLY APPLICATIONS

INCH HARDWARE AND LOCKNUTS

NOMINAL SIZE	SAE GRADE 2		SAE GRADE 5		SAE GRADE 8		LOCKNUTS		NOMINAL SIZE
	UNPLATED or PLATED SILVER	PLATED W/ZnCr GOLD	UNPLATED or PLATED SILVER	PLATED W/ZnCr GOLD	UNPLATED or PLATED SILVER	PLATED W/ZnCr GOLD	GR.B w/GR5 BOLT	GR.C w/GR8 BOLT	
1/4	6.2 (55*)	8.1 (72*)	9.7 (86*)	13 (112*)	14 (121*)	18 (157*)	6.9 (61*)	9.8 (86*)	1/4
5/16	13 (115*)	17 (149*)	20 (178*)	26 (229*)	28 (250*)	37 (324*)	14 (125*)	20 (176*)	5/16
3/8	23 (17)	30 (22)	35 (26)	46 (34)	50 (37)	65 (48)	26 (19)	35 (26)	3/8
7/16	37(27)	47 (35)	57 (42)	73 (54)	80 (59)	104 (77)	41 (30)	57 (42)	7/16
1/2	57 (42)	73 (54)	87 (64)	113 (83)	123 (91)	159 (117)	61 (45)	88 (64)	1/2
9/16	81 (60)	104 (77)	125 (92)	163 (120)	176 (130)	229 (169)	88 (65)	125 (92)	9/16
5/8	112 (83)	145 (107)	174 (128)	224 (165)	244 (180)	316 (233)	122 (90)	172 (127)	5/8
3/4	198 (146)	256 (189)	306 (226)	397 (293)	432 (319)	560 (413)	217 (160)	306 (226)	3/4
7/8	193 (142)	248 (183)	495 (365)	641 (473)	698 (515)	904 (667)	350 (258)	494 (364)	7/8
1	289 ((213)	373 (275)	742 (547)	960 (708)	1048 (773)	1356 (1000)	523 (386)	739 (545)	1

NOTE: Torque values shown with * are inch pounds.

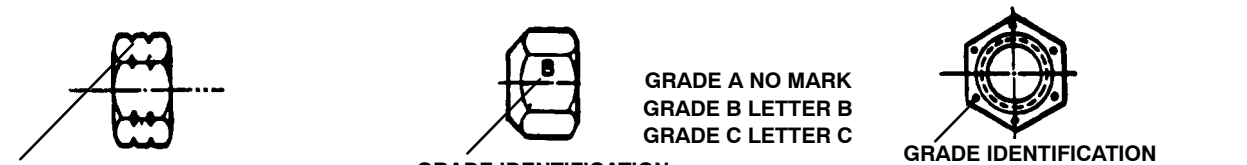
IDENTIFICATION
CAP SCREWS AND CARRIAGE BOLTS



SAE GRADE 2 | SAE GRADE 5 | SAE GRADE 8

REGULAR NUTS | SAE GRADE 5 HEX NUTS | SAE GRADE 8 HEX NUTS

LOCKNUTS



GRADE IDENTIFICATION

GRADE A NO NOTCHES

GRADE B ONE CIRCUMFERENTIAL NOTCH

GRADE C TWO CIRCUMFERENTIAL NOTCHES

GRADE IDENTIFICATION

GRADE A NO MARK
GRADE B LETTER B
GRADE C LETTER C

GRADE IDENTIFICATION

GRADE A NO MARKS

GRADE B THREE MARKS

GRADE C SIX MARKS

MARKS NEED NOT BE LOCATED AT CORNERS

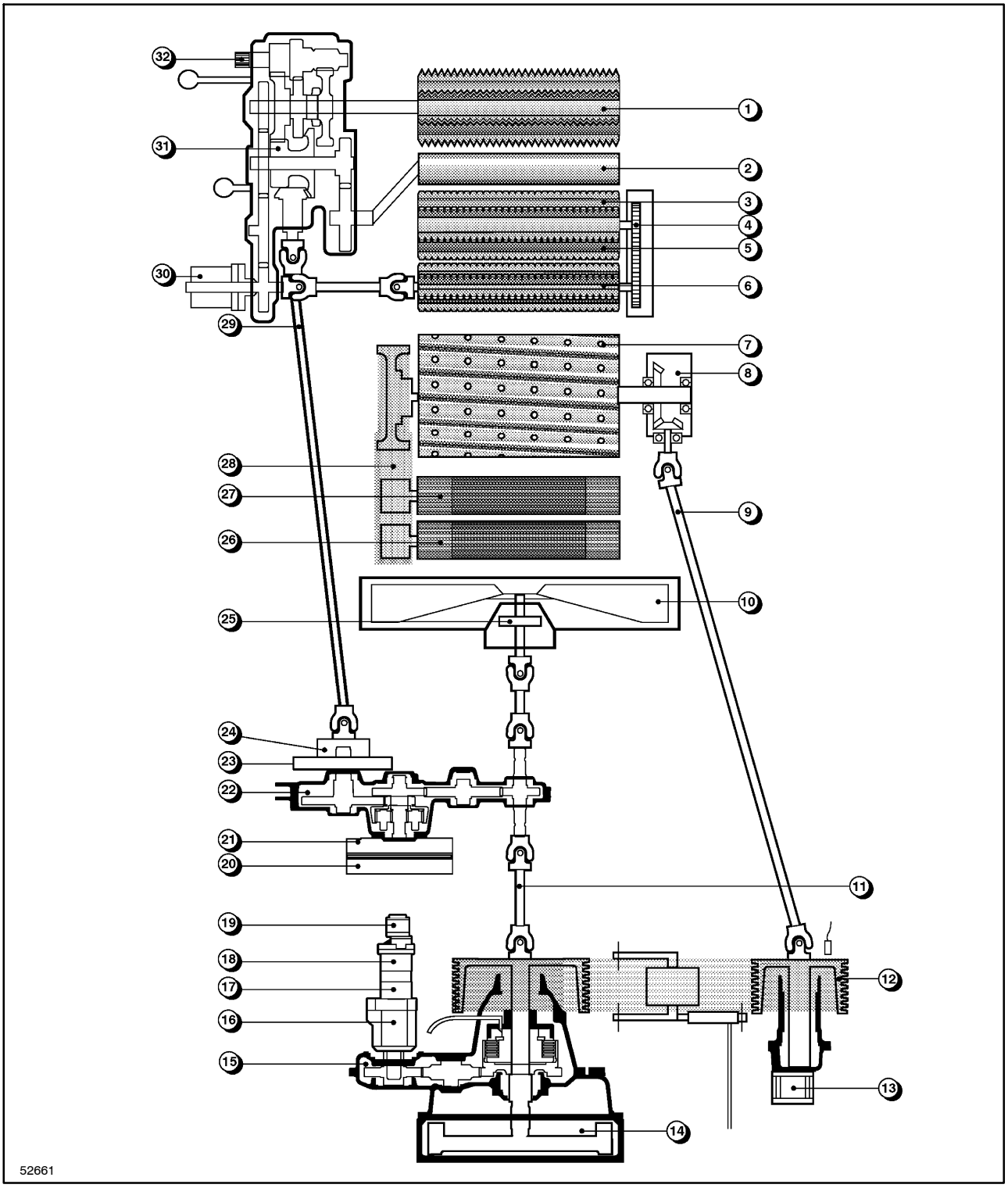
DRIVELINES AND COMPONENTS

Listed below and in the figure on the opposite page are all the forage harvester functional components and their drives.

FX300-375-450 / FX9630-9640-9645 / FX25-45	Series 01 to 14 Series 5033 to 5080

The speeds and torques mentioned apply to the nominal engine speed of 1950 rpm. At this speed the engine will deliver its maximum power.

	Speed (rpm)/ Torque (Nm)
1. Lower front feed roll (or metal detector roll)	54-91-132-221
2. Smooth roll	120-202-291-487
3. Upper front feed roll	55-93-134-225
4. Upper front feed roll drive chain	
5.	
6. Upper rear feed roll	98-164-237-396
7. Cutterhead	1141
8. Cutterhead gearbox	
9. Cutterhead drive shaft	2568
10. Blower	686 (760)
11. Reversing gearbox drive shaft	1950
12. Main drive belt	
13. Cutterhead reverse drive hydraulic motor	750 - 800
14. Engine	1950
15. Main drive transfer gearbox	
16. Hydrostatic pump	2791
17. Work hydraulics pump	2791
18. Steering hydraulics pump	2791
19. Low pressure hydraulics pump	2791
20. Electromagnetic clutch (forward drive)	1500 Nm
21. Electromagnetic clutch (reverse drive)	1500 Nm
22. Reversing gearbox	
23. Stop pawl wheel	497 (172 reverse)
24. Cut-out clutch	1900 Nm
25. Blower gearbox	
26. Lower crop processor roll	3780
27. Upper crop processor roll	3360
28. Crop processor drive belt	
29. Feed rolls drive shaft	497 (172 reverse)
30. Upper feed rolls slip clutch	1000 Nm
31. Length-of-cut gearbox	
32. Attachment drive p.t.o. shaft	383 (133 reverse)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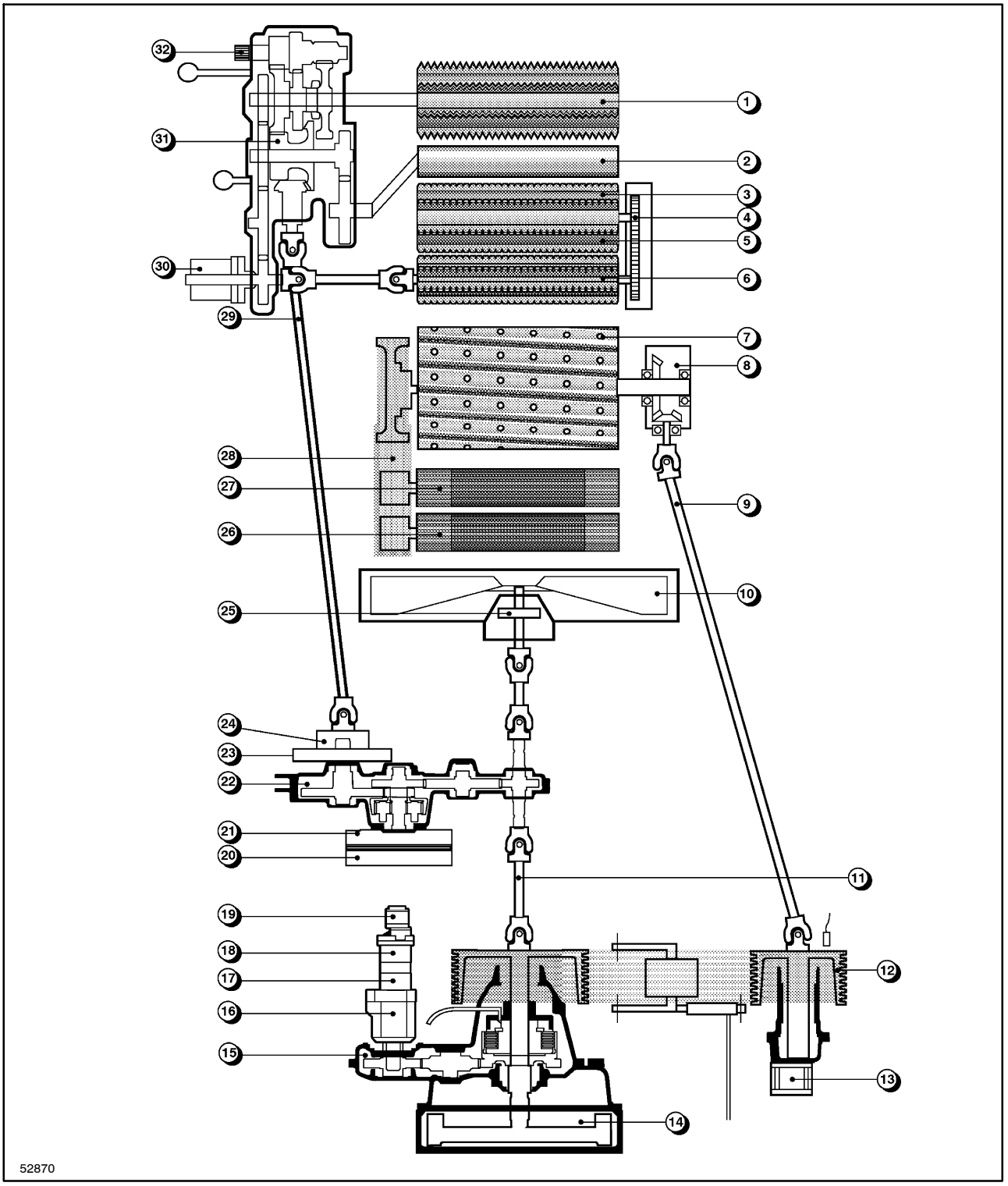
FX28-38-48 / FX28NA-38NA	Series 8083 to ....
FX58 / FX58NA	Series 8083 to ....

The speeds and torques mentioned apply to the nominal engine speed of 1950 rpm for FX28–38–48 or to the nominal engine speed of 2100 rpm for FX58. At this speed the engine will deliver its maximum power.

	FX28-38-48 Speed (rpm)/ Torque (Nm)	**FX58 Speed (rpm)/ Torque (Nm)**
1. Lower front feed roll (or metal detector roll)	54-91-132-221	58-98-142-238
2. Smooth roll	120-202-291-487	129-218-313-524
3. Upper front feed roll	55-93-134-225	59-100-144-242
4. Upper front feed roll drive chain		
5.		
6. Upper rear feed roll	98-164-237-396	106-177-255-426
7. Cutterhead	1141	1229
8. Cutterhead gearbox		
9. Cutterhead drive shaft	2568	2765
10. Blower	686 (760)	663 (735)
11. Reversing gearbox drive shaft	1950	2100
12. Main drive belt		
13. Cutterhead reverse drive hydraulic motor	750 - 800	808 - 862
14. Engine	1950	2100
15. Main drive transfer gearbox		
16. Hydrostatic pump	2791	3006
17. Work hydraulics pump	2791	3006
18. Steering hydraulics pump	2791	3006
19. Low pressure hydraulics pump	2791	3006
20. Electromagnetic clutch (forward drive)	1500 Nm (1100 lbf.ft)	1500 Nm (1100 lbf.ft)
21. Electromagnetic clutch (reverse drive)	1500 Nm (1100 lbf.ft)	1500 Nm (1100 lbf.ft)
22. Reversing gearbox		
23. Stop pawl wheel	497 (172 reverse)	535 (185 reverse)
24. Cut-out clutch	1900 Nm (1400 lbf.ft)	1900 Nm (1400 lbf.ft)
25. Blower gearbox		
26. Lower crop processor roll	3780	4070
27. Upper crop processor roll	3360	3620
28. Cop processor drive belt		
29. Feed rolls drive shaft	497 (172 reverse)	535 (185 reverse)
30. Upper feed rolls slip clutch	1200 Nm (800 lbf.ft)	1200 Nm (800 lbf.ft)
31. Length-of-cut gearbox		
32. Attachment drive p.t.o. shaft	383 (133 reverse)	412 (143 reverse)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Product: New Holland FX25/FX45/FX28/FX38/FX48/FX58 Forage Harvesters Service Repair Manual
Full Download: https://www.arepairmanual.com/downloads/new-holland-fx25-fx45-fx28-fx38-fx48-fx58-forage-harvesters-service-repair-manual/

LUBRICANT APPLICATION GUIDE

Item	Servicing interval	Amount /unit [litres]	NEW HOLLAND Brand name	NEW HOLLAND Specification	Lubricant grade	International specification
Grease fittings	10 h 50 h 100 h	- - -	AMBRA GR9 or AMBRA GR75 MD	NH710A or NH720A	NLGI2 NLGI2	
Feed roll gearbox	Change: - after first 100 h - every 300 h or annually	6.3	AMBRA HYPOIDE 90	NH520A	SAE 80W-90	API GL5 MIL-L-2105D
Cutterhead gearbox	Change: - after first 100 h - every 300 h or annually	4.3	AMBRA HYPOIDE 90	NH520A	SAE 80W-90	API GL5 MIL-L-2105D
Reversing gearbox	Change: - after first 100 h - every 300 h or annually	4	AMBRA HYPOIDE 90	NH520A	SAE 80W-90	API GL5 MIL-L-2105D
Blower gearbox	Change: - after first 100 h - every 300 h or annually	1.4	AMBRA HYPOIDE 90	NH520A	SAE 80W-90	API GL5 MIL-L-2105D
Four-wheel drive gearbox	Change: - after first 100 h - every 300 h or annually	1.4	AMBRA HYPOIDE 90	NH520A	SAE 80W-90	API GL5 MIL-L-2105D
Traction gearbox	Change: - after first 100 h - every 600 h or annually	15	AMBRA HYPOIDE 90	NH520A	SAE 80W-90	API GL5 MIL-L-2105D
Final drive gearbox	Change: - after first 100 h - every 600 h or annually	5	AMBRA HYPOIDE 90	NH520A	SAE 80W-90	API GL5 MIL-L-2105D
Steering axle mechanical four-wheel drive [option]	Change: - after first 100 h - every 600 h or annually	10	AMBRA HYPOIDE 90	NH520A	SAE 80W-90	API GL5 MIL-L-2105D

Item	Servicing interval	Amount /unit [litres]	NEW HOLLAND Brand name	NEW HOLLAND Specification	Lubricant grade	International specification
Rear-wheel planetary drives [option]	Change: - after first 100 h - every 600 h or annually	1	AMBRA HYPOIDE 90	NH520A	SAE 80W-90	API GL5 MIL-L-2105D

Sample of manual. Download All 890 pages at:
https://www.arepairmanual.com/downloads/new-holland-fx25-fx45-fx28-fx38-fx48-fx58-forage-harvesters-service-repair-manual