
T2210, T2220 - BOOMER 2030, BOOMER 2035 REPAIR MANUAL COMPLETE CONTENTS

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The following pages are the collation of the contents pages from each section and chapter of the T2210, T2220 - Boomer 2030, Boomer 2035 Repair manual. Complete Repair part # 84122964.

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.

SECTION 00 - GENERAL INFORMATION

Chapter 1 - General Information

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PRECAUTIONARY STATEMENTS

PERSONAL SAFETY

Throughout this manual and on machine decals, you will find precautionary statements (“**DANGER**”, “**WARNING**”, and “**CAUTION**”) followed by specific instructions. These precautions are intended for the personal safety of you and those working with you. Please take the time to read them.



DANGER



This word “**DANGER**” indicates an immediate hazardous situation that, if not avoided, will result in death or serious injury. The color associated with Danger is RED.



WARNING



This word “**WARNING**” indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury. The color associated with Warning is ORANGE.



CAUTION



This word “**CAUTION**” indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices. The color associated with Caution is YELLOW.

FAILURE TO FOLLOW THE “DANGER”, “WARNING”, AND “CAUTION” INSTRUCTIONS MAY RESULT IN SERIOUS BODILY INJURY OR DEATH.

MACHINE SAFETY

The precautionary statement (“**IMPORTANT**”) is followed by specific instructions. This statement is intended for machine safety.

IMPORTANT: The word “**IMPORTANT**” is used to inform the reader of something he needs to know to prevent minor machine damage if a certain procedure is not followed.

INFORMATION

NOTE: Instructions used to identify and present supplementary information.

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SAFETY

PRECAUTIONARY STATEMENTS

A careful operator is the best operator. Most accidents can be avoided by observing certain precautions. To help prevent accidents, read the following precautions before operating this equipment. Equipment should be operated only by those who are responsible and instructed to do so.

Carefully review the procedures given in this manual with all operators. It is important that all operators be familiar with and follow safety precautions.

THE TRACTOR

1. Read the Operator's Manual carefully before using the tractor. Lack of operating knowledge can lead to accidents.
2. Use an approved roll bar and seat belt for safe operation. Overturning a tractor without a roll bar can result in death or injury. If your tractor is not equipped with a roll bar and seat belt, see your New Holland Dealer.
3. Always use the seat belt. The only instance when the seat belt should not be used is if the roll bar has been removed from the tractor.
4. If a front end loader is to be installed, always use a FOPS (Falling Object Protective Structure) canopy to avoid injury from falling objects.
5. Use the handholds and step plates when getting on and off the tractor to prevent falls. Keep steps and platform cleared of mud and debris.
6. Do not permit anyone but the operator to ride on the tractor. There is no safe place for extra riders.
7. Keep all safety decals clean of dirt and grime, and replace all missing, illegible, or damaged safety decals. See the list of decals in the Decal section of this manual.
3. Keep the tractor and equipment, particularly brakes and steering, maintained in a reliable and satisfactory condition to ensure your safety and comply with legal requirements.
4. Keep open flame or cold weather starting aids away from the battery to prevent fires or explosions. Use jumper cables according to instructions to prevent sparks which could cause explosion.
5. Stop the engine before performing any service on the tractor.
6. Escaping hydraulic/diesel fluid under pressure can penetrate the skin causing serious injury. If fluid is injected into the skin, obtain medical attention immediately or gangrene may result.
 - DO NOT use your hand to check for leaks. Use a piece of cardboard or paper to search for leaks.
 - Stop the engine and relieve pressure before connecting or disconnecting lines.
 - Tighten all connections before starting the engine or pressurizing lines.
7. Do not modify or permit anyone else to modify or alter this tractor or any of its components or functions without first consulting a New Holland Dealer.

SERVICING THE TRACTOR

1. The cooling system operates under pressure which is controlled by the radiator cap. It is dangerous to remove the cap while the system is hot. Always turn the cap slowly to the first stop and allow pressure to escape before removing the cap entirely.
2. Keep any type of open flame away from the tractor and do not smoke while refueling. Wait for the engine to cool before refueling.
8. The fuel oil in the injection system is under high pressure and can penetrate the skin. Unqualified persons should not remove or attempt to adjust a pump, injector, nozzle, or any other part of the fuel injection system. Failure to follow these instructions can result in serious injury.
9. Continuous long-term contact with used engine oil may cause skin cancer. Avoid prolonged contact with used engine oil. Wash skin promptly with soap and water.

10. Some components of your tractor, such as gaskets and friction surfaces (brake linings, clutch linings, etc.) may contain asbestos. Breathing asbestos dust is dangerous to your health. You are advised to have any maintenance or repair on such components carried out by an authorized New Holland Dealer. However, if service operations are to be undertaken on parts that contain asbestos, the essential precautions listed below must be observed:
 - Work out of doors or in a well ventilated area.
 - Dust found on the tractor or produced during work on the tractor should be removed by extraction, not by blowing.
 - Dust waste should be dampened, placed in a sealed container, and marked to ensure safe disposal.
 - If any cutting, drilling, etc. is attempted on materials containing asbestos, the item should be dampened and only hand tools or low speed power tools used.
9. Pull only from the drawbar or the lower link drawbar in the down position. Use only a drawbar pin that locks in place. Pulling from the tractor rear axle or any point above the axle may cause the tractor to upset.
10. If the front end of the tractor tends to rise when heavy implements are attached to the three-point hitch, install front end or front wheel weights. Do not operate the tractor with a light front end.
11. Always set the hydraulic selector lever in position control when attaching or transporting equipment. Ensure hydraulic couplers are properly mounted and will disconnect safely in case of accidental detachment of implement.
12. Do not leave equipment in the raised position.
13. Use the flasher/turn signal lights and SMV signs when traveling on public roads both day and night (unless prohibited by law).
14. When operating at night, adjust lights to prevent blinding oncoming drivers.

OPERATING THE TRACTOR

1. Before starting the tractor, apply the parking brake, place the PTO lever in the "OFF" position, the lift control lever in the down position, the remote control valve levers in the neutral position, and the transmission in neutral.
2. Always sit in the tractor seat when starting the engine or operating controls. Do not start the engine or operate controls while standing beside the tractor.
3. Do not bypass the neutral start switches. Consult your New Holland Dealer if your neutral start controls malfunction. Use jumper cables only in the recommended manner. Improper use can result in tractor runaway.
4. Avoid accidental contact with the gear shift lever while the engine is running, as this can cause unexpected tractor movement.
5. Before getting off the tractor, disengage the PTO, turn the engine off, and apply the parking brake. Never get off the tractor while it is in motion.
6. Do not park the tractor on a steep incline.
7. Do not operate the tractor engine in an enclosed building without adequate ventilation. Exhaust fumes can cause death or illness.
8. If the power steering or engine ceases operating, stop the tractor immediately.

DRIVING THE TRACTOR

1. Watch where you are going, especially at row ends, on roads, around trees and low hanging obstacles.
2. To avoid upsets, drive the tractor with care and at a safe speed. Use extra caution when operating over rough ground, when crossing ditches or slopes, and when turning corners.
3. To provide two-wheel braking, lock tractor brake pedals together when transporting on roads.
4. Do not coast or free wheel down hills. Use the same gear when going downhill as is used when going uphill.
5. Any towed vehicle with a total weight exceeding that of the towing tractor should be equipped with brakes for safe operation.
6. If the tractor becomes stuck or the tires become frozen to the ground, back up the tractor to prevent upset.
7. Always check overhead clearance, especially when transporting the tractor.
8. When operating at night, adjust lights to prevent blinding oncoming drivers.

OPERATING THE PTO

1. When operating PTO driven equipment, shut off the engine and wait until the PTO stops before getting off the tractor and disconnecting the equipment.
2. Do not wear loose clothing when operating the power take-off or when near rotating equipment.
3. When operating stationary PTO driven equipment, always place both gear shift levers in neutral, apply the tractor parking brake, and block the rear wheels front and back.
4. To avoid injury, do not clean, adjust, unclog, or service PTO driven equipment when the tractor engine is running.
5. Ensure the PTO master shield is installed at all times. Always replace the PTO shield cap when the PTO is not in use.

DIESEL FUEL

1. UNDER NO CIRCUMSTANCES should gasoline, alcohol, or blended fuels be added to diesel fuel. These combinations can create an increased fire or explosive hazard. Such blends are more explosive than pure gasoline in a closed container such as a fuel tank. DO NOT USE THESE BLENDS.
2. Never remove the fuel cap or refuel with the engine running or hot.
3. Do not smoke while refueling or when standing near fuel.
4. Maintain control of the fuel filler pipe nozzle when filling the tank.
5. Do not fill the fuel tank to capacity. Allow room for expansion.

6. Wipe up spilled fuel immediately.
7. Always tighten the fuel tank cap securely.
8. If the original fuel tank cap is lost, replace it with a New Holland approved cap. A non-approved, proprietary cap may not be safe.
9. Keep equipment clean and properly maintained.
10. Do not drive equipment near open fires.
11. Never use fuel for cleaning purposes.
12. Arrange fuel purchases so that winter grade fuels are not held over and used in the spring.

SAFETY FRAME (ROPS)

Your New Holland tractor is equipped with a safety frame. It must be maintained in a serviceable condition. Be careful when driving through doorways or working in confined spaces with low headroom.

UNDER NO CIRCUMSTANCES should you:

- modify, drill, or alter the safety frame in any way. Doing so may render you liable to legal prosecution.
- attempt to straighten or weld any part of the main frame or retaining brackets which have suffered damage. Doing so may weaken the structure and endanger your safety.
- secure any parts on the main frame or attach your safety frame with anything other than the special high tensile bolts and nuts specified.
- attach chains or ropes to the main frame for pulling purposes.
- take unnecessary risks even though your safety frame affords you the maximum protection possible.



WHEN YOU SEE THIS SYMBOL

IT MEANS:

ATTENTION!

BECOME ALERT!

YOUR SAFETY IS INVOLVED!

SECTION 10 - ENGINE

Chapter 1 - Engine Systems

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SPECIFICATIONS

GENERAL	T2210/Boomer 2030	T2220/Boomer 2035
Net Power Hp in Kw (Hp)	21.9 (29.4)	24.9 (33.4)
Gross Engine in Kw(Hp)	23.1 (31)	26.1 (35)
PTO in Kw(Hp) w/9 x 3 w/HST	19.8 (26.3) 18.6 (24.9)	— 21.6 (28.9)
Engine Model	N843	N843L
Number of Cylinders	3	3
Bore x Stroke in mm (in.)	84 x 90 (3.31 x 3.54)	84 x 100 (3.31 x 3.94)
Displacement in L(In ³)	1.50 (91.3)	1.662 (101.5)
Compression Ratio	22.2:1	23.3:1
Rated Speed in rpm	2600	2600
Muffler Location	Under Hood	Under Hood
Firing Order	1-2-3	1-2-3
Low Idle Speed in rpm	1050 – 1150	1050 – 1150
High Idle Speed in rpm	2800 – 2850	2800 – 2850
Cylinder Arrangement	In-line Vertical	In-line Vertical
Valve Arrangement	Overhead	Overhead
CYLINDER BLOCK	T2210/Boomer 2030	T2220/Boomer 2035
Bore Standard in mm (in.)	84 – 84.019 (3.307 – 3.308)	84 – 84.019 (3.307 – 3.308)
Bore Maximum in mm (in.)	84.2 (3.315)	84.2 (3.315)
Head Surface Warp Standard in mm (in.)	0.05 (0.002)	0.05 (0.002)
Head Surface Warp Maximum in mm (in.)	0.12 (0.005)	0.12 (0.005)

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CYLINDER HEAD	T2210/Boomer 2030	T2220/Boomer 2035
Head Warp in mm (in.)		
Standard	0.05 (0.002)	0.05 (0.002)
Maximum	0.12 (0.005)	0.12 (0.005)
Valve Seat Width in mm (in.)		
Standard	1.2 - 1.8 (0.047 - 0.071)	1.7 - 2.1 (0.067 - 0.082)
Maximum	2.5 (0.098)	2.5 (0.098)
PISTON	T2210/Boomer 2030	T2220/Boomer 2035
Valve Seat Sink in mm (in.)		
Standard	0.85 - 1.15 (0.0334 - 0.0453)	0.85 - 1.15 (0.0334 - 0.0453)
Maximum	1.8 (0.071)	1.8 (0.071)
Valve Angle	45°	45°
Diameter in mm (in.)		
Standard	83.948 - 83.963 (3.3050 - 3.3056)	83.948 - 83.963 (3.3050 - 3.3056)
Minimum	83.7 (3.295)	83.7 (3.295)
Bore Clearance in mm (in.)		
Standard	0.038 - 0.072 (0.0014 - 0.0028)	0.038 - 0.072 (0.0014 - 0.0028)
Maximum	0.25 (0.010)	0.25 (0.010)
Piston Pin Bore in mm (in.)		
Standard	27.999 - 28.003 (1.10231 - 1.1025)	27.999 - 28.003 (1.10231 - 1.1025)
Maximum	28.02 (1.1031)	27.98 (1.102)
Piston Pin Clearances in mm (in.)		
Standard	-0.001 + 0.011 (-0.0000393 + 0.000433)	-0.001 + 0.011 (-0.0000393 + 0.000433)
Maximum	0.02 (0.0008)	0.02 (0.0008)

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PISTON PIN	T2210/Boomer 2030	T2220/Boomer 2035
Diameter in mm (in.)		
Standard	27.996 - 28.0 (1.1022 - 1.1024)	27.996 - 28.0 (1.1022 - 1.1024)
Maximum	27.97 (1.1012)	27.97 (1.1016)
Pin-to-Bushing Clearance in mm (in.)		
Standard	0.01 - 0.025 (0.0004 - 0.001)	0.01 - 0.025 (0.0004 - 0.001)
Maximum	0.08 (0.0031)	0.08 (0.0031)
PISTON RING END GAP	T2210/Boomer 2030	T2220/Boomer 2035
1st Compression in mm (in.)		
Standard	0.2 - 0.35 (0.008 - 0.014)	0.2 - 0.35 (0.008 - 0.014)
Maximum	1.0 (0.03937)	1.0 (0.03937)
2nd Compression in mm (in.)		
Standard	0.20 - 0.40 (0.008 - 0.016)	0.20 - 0.40 (0.008 - 0.016)
Maximum	1.0 (0.03937)	1.0 (0.03937)
Oil Ring in mm (in.)		
Standard	0.20 - 0.40 (0.008 - 0.016)	0.20 - 0.80 (0.008 - 0.0315)
Maximum	1.0 (0.03937)	1.2 (0.047)
PISTON RING COMPRESSION RING TO GROOVE SIDE CLEARANCE	T2210/Boomer 2030	T2220/Boomer 2035
1st Compression in mm (in.)		
Standard	0.07 - 0.11 (0.0027 - 0.0043)	0.07 - 0.11 (0.0027 - 0.0043)
Maximum	0.25 (0.010)	0.25 (0.010)
2nd Compression in mm (in.)		
Standard	0.04 - 0.08 (0.0015 - 0.0031)	0.04 - 0.08 (0.0015 - 0.0031)
Maximum	0.25 (0.010)	0.25 (0.010)
Oil Ring in mm (in.)		
Standard	0.03 - 0.13 (0.001 - 0.00512)	0.03 - 0.13 (0.001 - 0.00512)
Maximum	0.25 (0.010)	0.25 (0.010)

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PISTON RING WIDTH	T2210/Boomer 2030	T2220/Boomer 2035
1st Compression in mm (in.)	1.97 - 1.98 (0.077 - 0.078)	2.0 (0.079)
2nd Compression in mm (in.)	1.47 - 1.48 (0.058 - 0.059)	1.5 (0.059)
Oil Ring in mm (in.)	2.97 - 2.99 (0.1169 - 0.1177)	2.97 - 2.99 (0.1169 - 0.1177)
CONNECTING ROD	T2210/Boomer 2030	T2220/Boomer 2035
Rod Twist in mm (in.)		
Standard	0.08 (0.003)	0.08 (0.003)
Maximum	0.2 (0.008)	0.2 (0.008)
Rod Bend in mm (in.)		
Standard	0.05 (0.002)	0.05 (0.002)
Maximum	0.15 (0.006)	0.15 (0.006)
Rod Side Play in mm (in.)		
Standard	0.1 - 0.3 (0.004 - 0.012)	0.1 - 0.3 (0.004 - 0.012)
Maximum	0.7 (0.028)	0.7 (0.028)
Crankshaft Bearing Clearance in mm (in.)		
Standard	0.035 - 0.085 (0.001 - 0.003)	0.083 (0.0014 - 0.003227)
Maximum	0.2 (0.008)	0.2 (0.008)
CRANKSHAFT	T2210/Boomer 2030	T2220/Boomer 2035
Journal Diameter in mm (in.)		
Standard	67.951 - 67.97 (2.675 - 2.6759)	67.951 - 67.97 (2.675 - 2.6759)
Minimum	67.4 (2.654)	67.9 (2.673)
Crankpin Diameter in mm (in.)		
Standard	51.964 - 51.975 (2.0458 - 2.0463)	51.964 - 51.975 (2.0458 - 2.0463)
Minimum	51.4 (2.0236)	51.9 (2.043)
Runout in mm (in.)		
Standard	0.02 (0.0008)	0.03 (0.0012)
Maximum	0.05 (0.002)	0.06 (0.0023)
End Play in mm (in.)		
Standard	0.1 - 0.4 (0.0039 - 0.0156)	0.1 - 0.4 (0.0039 - 0.0156)
Minimum	0.5 (0.0195)	0.5 (0.0195)
Thrust Washer Thickness in mm (in.)		
Standard	2.95 - 3.0 (0.116 - 0.118)	2.95 - 3.0 (0.116 - 0.118)
Maximum	2.8 (0.110)	2.8 (0.110)

SECTION 10 - ENGINE - CHAPTER 1

CAMSHAFT	T2210/Boomer 2030	T2220/Boomer 2035
Cam Height – Valve mm (in.)		
Standard	34.45 – 35.01 (1.356 – 1.378)	34.45 – 35.01 (1.356 – 1.378)
Minimum	34.0 (1.339)	34.0 (1.339)
Bend in mm (in.)		
Standard	0.03 (0.001)	0.03 (0.001)
Maximum	0.1 (0.004)	0.1 (0.004)
Cam Height – Fuel mm (in.)		
Standard	42.94 – 43.06 (1.691 – 1.695)	42.94 – 43.06 (1.691 – 1.695)
Minimum	42.8 (1.685)	42.8 (1.685)
VALVES	T2210/Boomer 2030	T2220/Boomer 2035
Stem Diameter – Intake in mm (in.)		
Standard	6.955 – 6.97 (0.2738 – 0.2744)	6.955 – 6.97 (0.2738 – 0.2744)
Minimum	6.89 (0.271)	6.89 (0.271)
Stem Diameter – Exhaust in mm (in.)		
Standard	6.94 – 6.95 (0.273 – 0.274)	6.94 – 6.95 (0.273 – 0.274)
Minimum	6.84 (0.269)	6.84 (0.269)
Guide Clearance – Intake in mm (in.)		
Standard	0.03 – 0.06 (0.001 – 0.002)	0.03 – 0.06 (0.001 – 0.002)
Maximum	0.2 (0.008)	0.2 (0.008)
Guide Clearance – Exhaust in mm (in.)		
Standard	0.04 – 0.065 (0.002 – 0.003)	0.04 – 0.065 (0.002 – 0.003)
Maximum	0.25 (0.010)	0.25 (0.010)
Valve Margin in mm (in.)		
Standard	0.925 – 1.075 (0.0364 – 0.0423)	0.775 – 1.075 (0.0305 – 0.0423)
Maximum	0.5 (0.0197)	0.5 (0.0197)
Valve Lash in mm (in.)	0.2(0.008)	0.2(0.008)
Valve Spring-Free Height in mm (in.)		
Standard	35 (1.378)	35 (1.378)
Minimum	33.5 (1.319)	33.5 (1.319)



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SECTION 10 - ENGINE - CHAPTER 1

VALVES	T2210/Boomer 2030	T2220/Boomer 2035
Valve Spring-Squareness in mm (in.)		
Standard	1.2 (0.047)	1.2 (0.047)
Maximum	2.0 (0.079)	2.0 (0.079)
Valve Spring-Compressed Height in mm (in.)		
Standard @ 8.1 kg (17.86 lb)	30.4 (1.20)	30.4 (1.20)
Maximum @ 7 kg (15.43 lb)	30.4 (1.20)	30.4 (1.20)
Valve Timing-Intake		
Open Before TDC	13°	13°
Close After BDC	43°	43°
Valve Timing-Exhaust		
Open Before TDC	43°	43°
Close After BDC	13°	13°
PUSH RODS	T2210/Boomer 2030	T2220/Boomer 2035
Length in mm (in.)	205.1 – 205.9 (8.075 – 8.106)	225.6 – 226.4 (8.882 – 8.913)
Diameter in mm (in.)	6.3 (0.248)	6.3 (0.248)
ROCKER ARM	T2210/Boomer 2030	T2220/Boomer 2035
Shaft Diameter in mm (in.)		
Standard	14.95 – 14.968 (0.5886 – 0.5893)	14.95 – 14.968 (0.5886 – 0.5893)
Minimum	14.87 (0.585)	14.87 (0.585)
Shaft to Rocker Clearance in mm (in.)		
Standard	0.032 – 0.068 (0.0013 – 0.0027)	0.032 – 0.068 (0.0013 – 0.0027)
Maximum	0.2 (0.008)	0.2 (0.008)

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