ORIGINAL INSTRUCTIONS - *according to Directive 2006/42/EC, Annex I 1.7.4.1*

OPERATOR'S MANUAL

B100C
B100C LR
B100C TC
B110C
B110C TC
B115C TC
Stage IV

Tractor Loader Backhoe

PIN NZHH03067 and above

Part number 51420329
1st edition English
March 2019

NEW HOLLAND CONSTRUCTION

1 - GENERAL INFORMATION

Note to the owner

This manual contains important information about the safe operation, adjustment, and maintenance of your backhoe loader. Refer to the table of contents in this manual as an outline or guide to information about your machine. Use the index at the end of this manual for locating specific items about your machine. The backhoe loader conforms to current safety regulations.

Use this manual as a guide. Service your machine properly and at the suggested intervals. Regular maintenance and correct operation will ensure that your machine will remain a reliable working tool for a long time. If you need more information, contact your NEW HOLLAND CONSTRUCTION dealer.

DO NOT operate or permit anyone to operate or service this machine until you or the other persons have read and understand the safety, operation, and maintenance instructions in this manual. Use only trained operators who have demonstrated the ability to operate and service this machine correctly and safely.

The information in this manual is provided on the basis of information that was available at the time that the manual was written. Settings, procedures, part numbers, software, and other items can change. These changes can affect the service of the machine. Ensure that you have the complete and most current information from your dealer before you start any machine operation.

The operator's manual is to be stored in the manual compartment equipped on this machine. Make sure that this manual is complete and in good condition. Consult your dealer to obtain additional manuals or manuals in other languages. An Association of Equipment Manufacturers (AEM) safety booklet is included with each machine. Take the time to read the booklet and understand its content.

Contact your NEW HOLLAND CONSTRUCTION dealer for any further information or assistance about your machine. Your dealer has NEW HOLLAND CONSTRUCTION approved service parts. Your dealer has technicians with special training that know the best methods of repair and maintenance for your machine. NEW HOLLAND CONSTRUCTION customer assistance is also available. Go to www.newholland.com.

Use only approved accessories and attachments designed for your machine. Consult your dealer on changes, additions, or modifications that may be required for your machine. Do not make any unauthorized modifications to your machine.

ATTENTION: *The fuel system and engine on your machine are designed and built to government emissions standards. Tampering by dealers, customers, operators, and users is strictly prohibited by law. Failure to comply could result in government fines, rework charges, invalid warranty, legal action, and possible confiscation of the machine until rework to original condition is completed. Engine service and/or repairs must be done by a certified technician only!*

Read the operator's manual

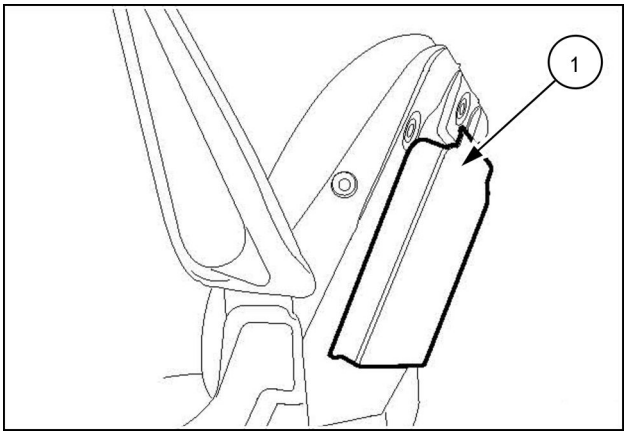
Improper operation of this machine can cause death or serious injury. Before using the machine, make certain that every operator

- is instructed in safe and proper use of the machine.
- reads and understands the manual(s) pertaining to the machine.
- reads and understands all safety signs on the machine.
- clears the area of other persons and domestic animals.
- learns and practices safe use of machine controls in a safe, clear area before operating this machine on a job site.

It is your responsibility to observe pertinent laws and regulations and follow NEW HOLLAND CONSTRUCTION instructions on machine operation and maintenance.

Operator's manual storage on the machine

Keep the Operator's Manual and the Association of Equipment Manufacturers (AEM) safety booklet in the storage compartment provided on the loader backhoe. The Operator's Manual and the AEM safety booklet must be available for use by all operators.



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(IT) DICHIARAZIONE "CE" DI CONFORMITÀ
Il sottoscritto dichiara che la sottoindicata macchina è stata progettata e costruita in conformità alle seguenti Direttive Europee, come emendate, e ai decreti e regolamenti che le traspongono nelle leggi nazionali
1.1 Norme europee armonizzate nel cui rispetto la conformità è dichiarata
1.2 Principali componenti di sicurezza montati e forniti con la macchina
1.2.1 Struttura di protezione contro la caduta di oggetti (F.O.P.S.)
1.2.2 Variante per la movimentazione dei carichi sospesi (...)
1.2.3 Struttura di protezione in caso di ribaltamento (R.O.P.S.)
1.2.4 Protezione frontale
1.2.5 Struttura di protezione in caso di rovesciamento laterale (T.O.P.S.)
1.2.6 Piattaforma per il sollevamento di persone (H>3m)
1.2.6.1 Ente notificato coinvolto
1.3 Attrezzature installate
1.4 Nome ed indirizzo della persona autorizzata a costituire il fascicolo tecnico
2.1 Procedura di valutazione della conformità seguita
2.2 Nome e indirizzo dell' Organismo Notificato coinvolto
2.3 Livello di potenza sonora misurato
2.4 Livello di potenza sonora garantito
2.5 Potenza del motore (come definita dalla ...)
2.6 Detentore della documentazione tecnica
3.1 Norme europee armonizzate nel cui rispetto la conformità è dichiarata
4. Altre Direttive applicabili

(FR) DECLARATION DE CONFORMITE "CE"
Je, soussigné déclare que l' engin indique ci-dessous a été conçu et construit conformément aux directives européennes suivantes, selon leur amendements, et selon les décrets et règlements le transposants dans les lois nationales:
1.1 Normes Européennes harmonisées dans le respect desquelles la conformité est déclareé
1.2 Composants principaux de sécurité montés et fournis avec la machine
1.2.1 Structure de protection contre la chute d'objets (F.O.P.S.)
1.2.2 Variante pour la manutention des charges suspendues (...)
1.2.3 Structure de protection en cas de capotage (R.O.P.S.)
1.2.4 Protection frontale
1.2.5 Structure de protection en cas de renversement latéral (T.O.P.S.)
1.2.6 Plate-forme pour le soulèvement de personnes (H>3m)
1.2.6.1 Organisme notifié intéressé
1.3 Outillages installés
1.4 Nom et adresse de la personne autorisée á remplir le fascicule technique
2.1 Procédure d' évaluation de la procédure suivie
2.2 Nom et adresse de l' Organisme Notifié impliqué
2.3 Niveau de puissance sonore mesuré
2.4 Niveau de puissance sonore garanti
2.5 Puissance du moteur (selon la définition de la ...)
2.6 Possesseur de la documentation technique
3.1 Normes Européennes harmonisées dans le respect desquelles la conformité est déclarée
4. Autres directives pouvant être appliquées

(ES) CERTIFICADO DE CONFORMIDAD "CE"
En abajo firmante declara que la máquina abajo indicada ha sido diseñada y fabricada conforme a las siguientes Directivas Europeas, a sus enmiendas y a los decretos y reglamentos que los transforman en leyes nacionales:
1.1 Normativa europea armonizada cuya conformidad se declara
1.2 Principales componentes de seguridad montados y suministrados con la máquina
1.2.1 Estructura de protección contra la caida de objetos (F.O.P.S.)
1.2.2 Dotación para mover cargas suspendidas (...)
1.2.3 Estructura de protección anti vuelco (R.O.P.S.)
1.2.4 Protección delantera
1.2.5 Estructura de protección en caso de vuelco lateral (T.O.P.S.)
1.2.6 Plataforma para elevación de personas (H>3m)
1.2.6.1 Ente notificado involucrado
1.3 Herramientas instaladas
1.4 Nombre y dirección de la persona autorizada para componer el documento técnico
2.1 Procedimiento de valoración de conformidad efectuado
2.2 Nombre e dirección del Organismo Notificador responsable
2.3 Nivel medido de potencia sonora
2.4 Nivel garantizado de potencia sonora
2.5 Potencia del motor (como define la ...)
2.6 Poseedor de la documentación técnica
3.1 Normativa europea armonizada cuya conformidad se declara
4. Oltras Directivas aplicables

(DE) "EG"-KONFORMITÄTSERKLÄRUNG
Der Unterzeichnende erklärt, dass die unten angegebene Maschine entsprechend der verbesserten europäischen Normen und nach den Verfügungen und Bestimmungen, die die nationalen Gesetze umsetzen, geplant und konstruiert wurde.
1.1 Harmonisierte Europäische Normen gemäß denen di Konformität erklärt wird:
1.2 Eingebaute und mit der Maschine mitgelieferte Haupt Sicherungsbauteile
1.2.1 Schutzaufbau gegen herabfallende Gegenstände (F.O.P.S.)
1.2.2 Ausrüstung für Hebezeugeinsatz (...)
1.2.3 Überschlagschutz (R.O.P.S.)
1.2.4 Frontschutz
1.2.5 Schutz gegen seitliches Kippen (T.O.P.S.)
1.2.6 Hubplattform für Personen (H>3m)
1.2.6.1 Zuständige, unterrichtete Körperschaft
1.3 Eingebaute Geräte
1.4 Name und Adresse des/der Verantwortlichen für die Zusammenstellung der technischen Akte
2.1 Angewandte Konformitätsbewertungsverfahren
2.2 Name und Anschrift der beteiligten benannten Stelle
2.3 Gemessener Schalleistungspegel
2.4 Garantierter Schalleistungspegel
2.5 Motorleistung (gemäß Definition der ...)
2.6 Inhaber der technischen Dokumentation
3.1 Harmonisierte Europäische Normen gemäß denen die Konformität erklärt wird
4. Weitere anwendbare Richtlinie/n

(PT) DECLARAÇAO "CE" DE CONFORMIDADE
O abaixo - assinado declara que a máquina abaixo indicada foi projetada e construida em conformidade às seguintes directivas europeas, como emendadas e aos decretos e regulamentos que as transpoem nas leis nacionais
1.1 Normas européias harmonizadas sob as quais a conformidade é declarada
1.2 Principais componentes de segurança instalados e fornecidos com a máquina
1.2.1 Estrutura de protecção contra a queda des objectos (F.O.P.S.)
1.2.2 Variante para a movimentação das cargas suspendidas (...)
1.2.3 Estrutura de protecção em caso de viragem (R.O.P.S.)
1.2.4 Protecção frontal
1.2.5 Estrutura de protecção em caso de viragem lateral (T.O.P.S.)
1.2.6 Plataforma para a elevação de pessoas (H>3m)
1.2.6.1 Ente notificado envolvido
1.3 Aparelhagens instaladas
1.4 Nome e endereço da pessoa autorizada a compilar o ficheiro técnico
2.1 Procedimento de avaliação da conformidade seguido
2.2 Nome e endereço do Organismo Notificado envolvido
2.3 Nível de potência sonora medido
2.4 Nível de potência sonora garantido
2.5 Potência do motor (como definida pela ...)
2.6 Detentor da documentação técnica
3.1 Normas européias harmonizadas sob as quais a conformidade é declarada
4 Outras Directrizes aplicáveis

(FI) YHDENMUKAISUUSTODISTUS
Allekirjoittaneena vakuutan, että alla kuvattu kone on suunniteltu ja valmistettu seuraavassa lueteltujen yhdennettyjen Euroopan yhteisön direktiivien sekä kansallisten lakien ja säännösten mukaisesti:
1.1 Yhdennetyt eurooppalaiset normit,joiden mukaisesti yhdenmukaisuus vakuutetaan
1.2 Tärkeimmät koneeseen asennetut ja sen mukana toimitettavat turvalaitteet
1.2.1 Putoavilla esineiltä suojaava suojarakenne (F.O.P.S.)
1.2.2 Turvalaite riippuvien kuormien siirtamiseen (...)
1.2.3 Kumoon kaatumisen suojarakenne (R.O.P.S.)
1.2.4 Etusuoja
1.2.5 Sivuun kaatumisen suojarakenne (T.O.P.S.)
1.2.6 Lava henkiloiden nostamiseen (H>3m)
1.2.6.1 Kyseinen ilmoitettu laitos
1.3 Asennetut laitteistot
1.4 Teknisen tiedoston laadintaan valtuutetun henkilön nimi ja osoite
2.1 Suoritettu yhdenmukaisuuden arviointitoimenpide
2.2 Toimenpiteen suorittaneen järjestön nimi ja osoite
2.3 Mitattu äänitehon taso
2.4 Taatu äänitehon taso
2.5 Moottorin teho (... mukaisesti)
2.6 Teknisen dokumentaation haltija
3.1 Yhdennetyt eurooppalaiset normit,joiden mukaisesti yhdenmukaisuus vakuutetaan
4 Muut mahdolliset direktiivit

(NO) "EU" KONFORMITETSDEKLARASJON
Den undertegnede erklærer at maskinen som er beskrevet nedenfor, er prosjektert og konstruert i henhold til følgende europeiske direktiver, slik de er endret og i henhold til direktiver og regler som omstilles i de gjeldende nasjonale loven
1.1 Konformiteten er deklarert i henhold til de Europeiske Harmoniserte Normene
1.2 Hovedsikkerhetskomponenter som blir montert og levert med maskinen
1.2.1 Struktur for beskyttelse mot at ting faller ned (F.O.P.S.)
1.2.2 Variant for transport av oppløftet lass (...)
1.2.3 Vernestruktur i tilfelle velt (R.O.P.S)
1.2.4 Frontalbeskyttelse
1.2.5 Vernestruktur i tilfelle sidevelt (T.O.P.S)
1.2.6 Plattform for heving av personer (H>3m)
1.2.6.1 Institusjon som har mottatt kunngjøringen
1.3 Installert utstyr
1.4 Navn og adresse til personen som er autorisert til å opprette den tekniske mappen
2.1 Prosedyre for vurdering av konformiteten som er fulgt
2.2 Navn og adresse av den involverte Notifiserings Organisasjonen
2.3 Det målte lydeffektnivået
2.4 Det garanterte lydeffektnivået
2.5 Motor effekt (ifølge ...)
2.6 Innehaver av teknisk dokumentasjon
3.1 Europeiske Harmoniserte Normer som er overholdt ved konformitets-deklarasjonen
4. Andre anvendelige direktiver

(SV) "EC" INTYG OM ÖVERENSSTÄMMELSE
Undertecknad intygar att den nedan angivna maskinen har framtagits och tillverkats i översstämmelse med följande europeiska direktiv, såsom modifierade, och med i nationella lagar överordnade dekret och förordningar
1.1 Europeiska harmoniserade normer under vilka överensstämmelser har deklarerats:
1.2 Huvudsakliga säkerhetskomponenter som monterats och levererats med maskinen
1.2.1 Skyddsanordningar mot fallande föremål (F.O.P.S.)
1.2.2 Styrsystem för svavande material (...)
1.2.3 Skyddsstruktur i händelse av tippning (R.O.P.S.)
1.2.4 Skydd fram
1.2.5 Skyddsstruktur i händelse av kantring (T.O.P.S.)
1.2.6 Plattform för upphissning av personer (H>3m)
1.2.6.1 Underrättad berörd myndighet
1.3 Installerade utrustningar
1.4 Namn och adress för personen som är auktoriserad att upprätta de tekniska dokumenten
2.1 Förfarande för bedömning av den följda överenstämmelsen
2.2 Namn och adress för gällande tillkännagivande organ
2.3 Uppmätt ljudeffektnivå
2.4 Garanterad ljudeffektnivå
2.5 Motoreffekt (såsom definierad av ...)
2.6 Innehavare av den tekniska dokumentationen
3.1 Europeiska harmoniserade normer under vilka överenstämmelse är deklarerad:
4. Andra tillampliga Direktiv

(DA) "EF" ERKLÆRING OM OVERENSSTEMMELSE
Undertegnede erklærer, at nedennævnte maskine er designet og konstrueret i overensstemmelse med følgende eu direktiver, som ændret, og de dekreter og reglementer, der omdanner dem til nationale love
1.1 Europæiske Harmoniserede normer under hvilke man har erklæret overensstemmelsen:
1.2 Hoved sikkerheds-komponenter monteret og leveret med maskinen
1.2.1 Beskyttelses - struktur mod fald af genstande (F.O.P.S.)
1.2.2 Variant til bevægelse af ophængte laster (...)
1.2.3 Beskyttelses struktur i tilfælde af tipning/vælten (R.O.P.S.)
1.2.4 Frontal-beskyttelse
1.2.5 Beskyttelses-struktur i tilfælde af side-tipning/vællen (T.O.P.S.)
1.2.6 Platform til løftning at personer (H>3m)
1.2.6.1 Den notificerede institution, som er inddraget
1.3 Installeret udstyr
1.4 Navn og adresse på den person, der er autoriseret til at kompilere den tekniske fil
2.1 Fulgte overensstemmelses-vurderingsprocedure
2.2 Navn og adresse på det involverede Notificerede Organ
2.3 Målte lydstyrke-niveau
2.4 Garanteret lydstyrke-niveau
2.5 Motoreffekt (som defineret at det ...)
2.6 Ansvarlig for den tekniske dokumentation
3.1 Europæiske Harmoniserende normer under hvilke man har erklæret overensstemmelsen:
4. Andre anvendelige Direktiver

(EL) ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ "CE"
Εγώ δηλώνω με παρούσα ότι το μηχάνημα που αναφέρεται παρακάτω έχει σχεδιαστεί και κατασκευστεί σύμφωνα με τις ακόλουθες ευρωπαϊκές οδηγίες, όπως έχουν τροποποιηθεί και με τους νόμους και κανονισμούς που τις έχουν ενσωματώσει στην εθνική νομοθεσία:
1.1 Ευρωπαϊκές εναρμονισμένες προσιαγραφές βάσει των οποίων δηλώνεται η συμφωνία
1.2 Κύρια συγκροτήματα ασφαλείας ενσωματωμένα στο μηχάνημα και συνοδεύοντα αυτό
1.2.1 Πλαίσιο Προστασίας από Πτώση Αντικειμένων (F.O.P.S.)
1.2.2 Διάταξη για τον χειρισμό φορτίων (...)
1.2.3 Προστατευτική κατασκευή σε περίπτωση ανατροπής (R.O.P.S.)
1.2.4 Μετωπική προστασία
1.2.5 Προστατευτική κατασκευή σε περίπτωση πλάγιας ανατροπής (T.O.P.S.)
1.2.6 Πλατφόρμα για ανύψωση ατόμων (H>3m)
1.2.6.1 Εμπλεκόμενος φορέας
1.3 Εγκατεστημένος εξοπλισμός
1.4 Όνομα και διεύθυνση του ατόμου που έχει εξουσιοδοτηθεί για τη σύνταξη του τεχνικού αρχείου
2.1 Ακολουθούμενη διαδικασία αξιολογήσεως της συμβατότητας
2.2 Ονομα και Διεύθυνση του εξουσιοδοτημένου φορέα που τον έλεγχο
2.3 Μετρηθείσα στάθμη ισχύος θορύβου
2.4 Αποδεκτή στάθμη ισχύος θορύβου
2.5 Η ισχύς του κινητήρα (όπως καθορίζεται από την ...)
2.6 Κάτοχος τεχνικής τεκμηρίωσης
3.1 Ευρωπαϊκές εναρμονισμένες προδιαγραφές βάσει των οποίων δηλώνεται η συμφωνία
4. Αλλες εφαρμοζόμενες Οδηγίες

(NL) "CE" CONFORMITEITSVERKLARING
Ondergetekende verklaart dat de hieronder beschrevene machine ontworpen en gebouwd werd met inachtneming van de volgende Europese richtlijnen en wijzigingen en met de decreten en reglementen die ze in nationale wetten omzetten
1.1 Europese geharmoniseerde normen aan welke de conformiteit wordt verklaard
1.2 Hoofdveiligheidscomponenten gemonteerd en geleverd met de machine
1.2.1 Beveiliging tegen vallende objecten (F.O.P.S.)
1.2.2 Uitrusting voor hijswerkzaamheden (...)
1.2.3 Beschermingsstructuur in geval van omkantelen (R.O.P.S.)
1.2.4 Voorbescherming
1.2.5 Beschermingsstructuur in geval van zijdelingse omkanteling (T.O.P.S.)
1.2.6 Personen hefplatform (H>3m)
1.2.6.1 Betrokken aangemelde instantie
1.3 Geïnstalleerde uitrusting
1.4 Naam en adres van degene die gemachtigd is om het technische dossier samen te stellen
2.1 Toegepaste conformiteitsevaluatie
2.2 Naam en adres van het betrokken Erkende Organisme
2.3 Gemeten geluidsniveau
2.4 Gewaarborgd geluidsniveau
2.5 Motorvermogen (zoals bepaald door de ...)
2.6 Houder van de technische documentatie
3.1 Europese geharmoniseerde normen aan welke de conformiteit wordt verklaard
4. Andere richtlijn(en) van toepassing

(CS) ES PROHLÁŠENÍ O SHODĚ
Níže podepsaný výrobce prohlašuje, že dole uvedené strojní zařízení bylo navrženo a vyrobeno v souladu s ustanoveními následujících Evropských směrnic, jakož i jejich pozdějších změn, a v souladu s nařízeními a předpisy, jejichž prostřednictvím jsou tyto normy převedeny do národních zákonů
1.1 Harmonizované evropské normy, na nichž se zakládá prohlášení o shodě
1.2 Hlavní bezpečnostní komponenty montované a dodávané spolu se strojem
1.2.1 Ochranná konstrukce chránící proti padajícím předmětům (F.O.P.S.)
1.2.2 Verze pro přepravu zavěšených nákladů (...)
1.2.3 Ochranná konstrukce chránící při převrácení (R.O.P.S.)
1.2.4 Čelní ochranná konstrukce
1.2.5 Ochranná konstrukce chránící při převrácení na bok (T.O.P.S.)
1.2.6 Plošina pro zdvihání osob (H>3m)
1.2.6.1 Autorizovaný orgán
1.3 Instalovaná zařízení
1.4 Jméno a adresa osoby pověřené zpracováním technické dokumentace
2.1 Použitý postup posuzování shody
2.2 Název a adresa autorizovaného orgánu, který provedl posouzení shody
2.3 Naměřená hladina akustického výkonu
2.4 Garantovaná hladina akustického výkonu
2.5 Výkon motoru (stanoveno dle ...)
2.6 Držitel technické dokumentace
3.1 Harmonizované evropské normy, na nichž se zakládá prohlášení o shodě:
4. Jiné použitelné směrnice

(ET) "EC" VASTAVUSAVALDUS
Allakirjutanu kinnitab, et käesolev seade on konstrueeritud ja valmistatud täielikus vastavuses alljärgnevate Euroopa direktiividega ning neid riiklikus seadusandluses rakendavate määruste ja normatiividega.
1.1 Kinnitame vastavust Euroopa ühtlustatud standarditele
1.2 Seadmesse on installeeritud ja seade on varustatud peamiste ohutusseadistega
1.2.1 Kukkuvate esemete eest kaitsev turvakatus (F.O.P.S.)
1.2.2 Kaitse rippuva lastiga töötamisel (...)
1.2.3 Ümbermineku puhul kaitsev turvakabiin (R.O.P.S.)
1.2.4 Esiosa kaitse
1.2.5 Kummulimineku puhul kaitsev turvakabiin (T.O.P.S.)
1.2.6 Töötajate tõsteplatvorm (H>3m)
1.2.6.1 Teavitatud asjakohased ametkonnad
1.3 Installeeritud sisseseade
1.4 Isiku nimi ja aadress, kellel on luba tehnilise faili koostamiseks
2.1 Vastavuse hindamisprotseduur läbi viidud
2.2 Teavitatud asjakohase organisatsiooni nimetus ja aadress
2.3 Helitugevuse tase mõõdetud
2.4 Helitugevuse tase tagatud
2.5 Mootori võimsus (vastavalt ... nõuetele)
2.6 Tehnilise dokumentatsiooni hoidja
3.1 Kinnitame vastavust Euroopa ühtlustatud standarditele
4 Muud kohaldatavad direktiivid

(LV) "EK" ATBILSTĪBAS DEKLARĀCIJA
Apakšā parakstījušies deklarē, ka šeit zemāk norādītais mehānisms ir paredzēts un izgatavots atbilstoši šādām izdotajām Eiropas direktīvām, kā arī dekrētiem un nolikumiem, kas tās pielāgo nacionālajai likumdošanai.
1.1 Saskaņotie Eiropas standarti, saskaņā ar kuriem tiek deklarēta atbilstība
1.2 Galvenie drošības komponenti, kas uzstādīti un nodrošināti kopā ar mehānismu
1.2.1 Struktūra aizsardzībai no krītošiem priekšmetiem (F.O.P.S.)
1.2.2 Variants piekārtu slodžu pārvietošanai (...)
1.2.3 Struktūra aizsardzībai pret apgāšanos (R.O.P.S.)
1.2.4 Aizsardzība no priekšpuses
1.2.5 Struktūra aizsardzībai pret sagāšanos (T.O.P.S.)
1.2.6 Personāla pacelšanas platforma (H>3m)
1.2.6.1 Iesaistītā informētā instance
1.3 Uzstādītā iekārta
1.4 Tehniskas datnes sastadīšanai pilnvarotas personas vards un adrese
2.1 Istenotā atbilstības novērtēšanas procedūra
2.2 Iesaistītās informētās organizācijas nosaukums un adrese
2.3 Izmērītais skaņas jaudas līmenis
2.4 Garantētais skaņas jaudas līmenis
2.5 Dzinēja jauda (kā definēts ...)
2.6 Tehniskās dokumentācijas uzglabātājs
3.1 Saskaņotie Eiropas standarti, saskaņā ar kuriem tiek deklarēta atbilstība
4. Citas piemērojamas direktīvas

(LT) "EB" ATITIKTIES DEKLARACIJA
Žemiau pasirašiusysis pareiškia, kad žemiau šiame dokumente nurodyta mašina yra suprojektuota ir pagaminta, laikantis tokių išleistų Europos direktyvų bei dekretų ir nuostatų, perkeliančių direktyvas į nacionalinius teisės aktus
1.1 Darnieji Europos standartai, kuriais remiantis deklaruojama atitiktis
1.2 Pagrindiniai saugos komponentai, sumontuoti ir pristatomi su mašina
1.2.1 Apsaugos nuo krintančių daiktų konstrukcija (F.O.P.S.)
1.2.2 Variantas pakabinamų krovinių krovimui (...)
1.2.3 Virtimo apsaugos konstrukcija (R.O.P.S.)
1.2.4 Priekinė apsauga
1.2.5 Apsivertimo apsaugos konstrukcija (T.O.P.S.)
1.2.6 Darbininkų kėlimo platforma (aukštis>3m)
1.2.6.1 Dalyvaujanti notifikuotoji institucija
1.3 Sumontuota įranga
1.4 Asmens, įgalioto kompiliuoti šią techninę rinkmeną, asmenvardis ir adresas
2.1 Atitikties įvertinimo procedūra atlikta
2.2 Dalyvaujančios notifikuotosios įstaigos pavadinimas ir adresas
2.3 Garso galios lygis matuojamas
2.4 Garantuojamas garso galios lygis
2.5 Variklio galia ()
2.6 Techninės dokumentacijos turėtojas
3.1 Darnieji Europos standartai, kuriais remiantis deklaruojama atitiktis
4. Kitos taikytinos direktyvos

(HU) BIZONYÍTVÁNY A "CE" IRÁNYELVEK ALKALMAZÁSÁRA
Az alulírott bizonyítja, hogy az alább jelzett gép a következő Európai Irányelvek és ezek módosításának, valamint a nemzeti szabályzatba átvett torvényrendeletek és szabályok szerint van tervezve és gyártva
1.1 Harmonizált európai szabályok, melyek megfelelésére vonatkozik a bizonyítás
1.2 A gépre szerelt és vele együtt szállított biztonsági főalkatrészek
1.2.1 Gépből kieső tárgyak elleni védőszerkezetek (F.O.P.S.)
1.2.2 Kiviteli variáns a felfüggesztett terhek mozgatásához (...)
1.2.3 Védőszerkezet a gép felborulása esetére (R.O.P.S.)
1.2.4 Kezelővel szembenálló védőszerkezet
1.2.5 Védőszerkezet a gép oldalra borulása esetére (T.O.P.S.)
1.2.6 Személyhordó emelőkosár (H>3m)
1.2.6.1 Az érdekelt megbízott Intézmény
1.3 Beszerelt készülékek
1.4 A technikai fájl összeállítására jogosult személy neve és címe
2.1 A megfelelésre vonatkozó kiértékelési eljárás
2.2 Az érdekelt megbízott Intézmény neve és címe
2.3 A hangzavar lemért értéke
2.4 A hangzavar garantált értéke
2.5 Motorteljesítmény (az ... meghatározása szerint)
2.6 A műszaki bizonyítási anyagával bíró személy
3.1 Harmonizált európai szabályok, melyek alkalmazására vonatkozik a bizonyítás
4. Egyéb alkalmazható Irányelvek

(PL) OŚWIADCZENIE "CE" O ZGODNOŚCI
Ja niżej podpisany oświadczam, że poniżej wskazana maszyna została zaprojektowana i zbudowana zgodnie z poniższymi Dyrektywami Europejskimi, zgodnie z poprawkami, i z dekretami i regulaminami przystosowując je do przepisów narodowych
1.1 Dostosowane Normy europejskie, według których zgodność zadeklarowano
1.2 Podstawowe komponenty bezpieczeństwa zamontowane i dostarczone wraz z maszyną
1.2.1 Struktura ochronna przeciw spadaniu przedmiotów (F.O.P.S.)
1.2.2 Wariant do przemieszczania ładunków zawieszonych (...)
1.2.3 Struktura ochronna w przypadku wywrotki maszyny (R.O.P.S.)
1.2.4 Ochrona frontalna
1.2.5 Struktura ochronna w przypadku bocznej wywrotki (T.O.P.S.)
1.2.6 Platforma do podnoszenia osób (H>3m)
1.2.6.1 Kompetentny Urząd zarejestrowany
1.3 Aparatura zainstalowana
1.4 Imię, nazwisko i adres osoby upoważnionej do sporządzania dokumentacji technicznej
2.1 Procedura oceny zgodności według
2.2 Nazwa i adres Kompetentnego Urzędu Zarejestrowanego
2.3 Pomierzony Poziom mocy dźwięku
2.4 Gwarantowany Poziom mocy dźwięku
2.5 Moc silnika (jak określono w ...)
2.6 Posiadacz dokumentacji technicznej
3.1 Dostosowane Normy europejskie, według których zgodność zadeklarowano
4. Inne Dyrektywy zastosowane

(SK) "ES" VYHLÁSENIE O ZHODE
Dolupodpísaný prehlasuje, že nižšie uvedené strojné zariadenie bolo navrhnuté a vyrobené v súlade s ustanoveniami nasledovných smerníc EÚ, v znení ich neskorších zmien a doplnení, a v súlade s nariadeniami a predpismi, ktoré ich preberajú /transponujú/ do príslušných vnútroštátnych zákonov
1.1 Zosúladené normy EÚ, s ktorými je preukázaná zhoda
1.2 Hlavné bezpečnostné komponenty namontované a dodávané spolu so strojom
1.2.1 Ochranná štruktúra na zabránenie spadnutiu predmetov (F.O.P.S.)
1.2.2 Výkyv pri pohybovaní zavesených bremien (...)
1.2.3 Ochranná štruktúra v prípade prevrátenia (R.O.P.S.)
1.2.4 Čelná ochrana
1.2.5 Ochranná štruktúra v prípade bočného preklopenia (T.O.P.S.)
1.2.6 Plošina na dvíhanie osôb (H>3m)
1.2.6.1 Zainteresovaný certifikačný orgán
1.3 Nainštalované príslušenstvo
1.4 Meno a adresa autorizovanej osoby oprávnenej zostavovať technickú dokumentáciu
2.1 Postup posudzovania zhody vykonal
2.2 Názov a adresa príslušného autorizovaného certifikačného orgánu:
2.3 Nameraná hladina akustického hluku výkonu
2.4 Zaručená hladina akustického hluku výkonu
2.5 Výkon motora (ako je stanovený v ...)
2.6 Držiteľ technickej dokumentácie
3.1 Zosúladené normy EÚ, s ktorými je preukázaná zhoda
4. Iné aplikované smernice:

(SL) IZJAVA EU O SKLADNOSTI
Spodaj podpisani izjavlja, da je omenjena naprava načrtovana in izdelana v skladu z sledečimi evropskimi direktivami z vsemi dodatki, ter z odločbami in uredbami, ki jih vpeljujejo v državne zakone
1.1 Harmonizirana evropska pravila, za katere se potrjuje skladnost
1.2 Temeljne varnostne komponente, ki so vgrajene in nudene z napravo
1.2.1 Zaščitna struktura proti padcu predmetov (F.O.P.S.)
1.2.2 Varianta za gibanje visečih tovorov (...)
1.2.3 Zaščitna struktura v primeru prevrnitve (R.O.P.S.)
1.2.4 Prednja zaščita
1.2.5 Zaščitna struktura v primeru bočne prevrnitve (T.O.P.S.)
1.2.6 Platforma za dvig oseb (H>3m)
1.2.6.1 Organ, kateremu se sporoči in ki je vpleten
1.3 Inštalirana orodja
1.4 Ime in naslov osebe, ki je pooblaščena za oblikovanje tehnične datoteke
2.1 Procedura za ocenjevanje skladnosti
2.2 Ime in naslov vpletenega organisma
2.3 Odmerjena moč hrupa
2.4 Zajamčena moč hrupa
2.5 Moč motorja (kot je predvidena po ...)
2.6 Lastnik tehnične dokumentacije
3.1 Harmonizirana evropska pravila, za katere se potrjuje skladnost
4. Ostale direktive, ki se spoštujejo

(BG) "CE" ДЕКЛАРАЦИЯ ЗА СЪОТВЕТСТВИЕ
Долуподписаният (долуподписаната) декларирам(е), че машината, описана по-долу, е конструирана и произведена в съответствие със следните изменени и допълнени европейски директиви и разпоредбите, които ги транспонират в националното законодателство.
1.1 Хармонизирани европейски стандарти, по които се декларира съответствие
1.2 Главни компоненти за безопасност, инсталирани и доставени с машината
1.2.1 Защитна конструкция срещу падащи предмети (F.O.P.S.)
1.2.2 Приложен прибор за манипулиране с предмети (...)
1.2.3 Защитна конструкция срещу странично преобръщане (R.O.P.S.)
1.2.4 Предна защита на кабината
1.2.5 Защитна конструкция срещу преобръщане напред (T.O.P.S.)
1.2.6 Платформа за повдигане на хора (H>3m)
1.2.6.1 Компетентен контролен орган
1.3 Монтирани приставни устройства
1.4 Име и адрес на лицето, упълномощено да състави техническия файл
2.1 Спазена процедура за оценка на съответствието
2.2 Име и адрес на компетентния контролен орган
2.3 Измерена мощност на звука
2.4 Гарантирана мощност на звука
2.5 Мощност на двигателя (съгласно ...)
2.6 Техническата документация се съхранява от
3.1 Хармонизирани европейски стандарти, по които се декларира съответствие
4. Други приложими директиви

(RO) DECLARAȚIE DE CONFORMITATE "CE"
Subsemnatul declară că utilajul descris mai jos este proiectat și fabricat în conformitate cu următoarele Directive UE, cu amendamentele corespunzătoare și cu reglementările care le transpun în legile naționale
1.1 Standarde europene armonizate față de care se declară conformitatea
1.2 Componente principale de siguranță montate și furnizate cu utilajul
1.2.1 Structura de protecție împotriva obiectelor căzătoare (F.O.P.S.)
1.2.2 Trusă de aplicație la manipularea obiectelor (...)
1.2.3 Structură de protecție la rostogolire (R.O.P.S.)
1.2.4 Protecție frontală cabină
1.2.5 Structura de protecție la răsturnare (T.O.P.S.)
1.2.6 Platformă de ridicare a personalului (H>3m)
1.2.6.1 Autoritatea implicată notificată
1.3 Accesorii montate
1.4 Numele și adresa persoanei autorizate să completeze dosarul tehnic
2.1 Procedura după care s-a efectuat evaluarea conformității
2.2 Denumirea și adresa organismului implicat notificat
2.3 Nivel măsurat al puterii zgomotului
2.4 Nivel garantat al puterii zgomotului
2.5 Puterea motorului (definită de ...)
2.6 Deținătorul documentației tehnice
3.1 Standarde europene armonizate față de care se declară conformitatea
4. Alte directive aplicabile

RAIL16TLB0932HA 4

B110C "EC" Declaration of Conformity (EC DoC)

NOTE: *The main factors taken into account to define the shelf life in the table above are the ambient storage temperature and the initial alkalinity of* ***DEF/ADBLUE®****. The difference in evaporation between vented and non-vented storage containers is an additional factor.*

NOTE: *The information in the Shelf life table is for reference only. Source:* ***ISO 22241-3*** *Diesel engines - NOx reduction agent AUS 32 - Part 3: Handling, transportation and storage.*

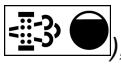
NOTE: DEF/ADBLUE® *that remains in the tank of the machine after the season does not require any special precautions unless storage exceeds the shelf life table above.*

Disposal

- Dispose of **DEF/ADBLUE®** and any filter accumulations in accordance with all applicable Federal, State, and local laws governing waste disposal.

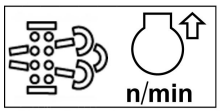
Hydrocarbon management

If the engine operates at low idle speed for a prolonged period of time, hydrocarbons can accumulate in the SCR catalyst. To manage this accumulation, your machine will monitor current conditions and increase idle speed or request action from the operator in order to increase the temperature inside the SCR catalyst and eliminate the hydrocarbons.

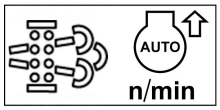
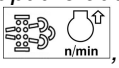
NOTICE: *Unless the Hydrocarbon (HC) level has reached the most critical level (SCR catalyst full*  *), running the unit under load is advantageous for quickly reducing the HC levels.*

There are three messages that can be displayed to inform you that hydrocarbon management is active:

Low Idle Increase Recommended

Display	Audible alert	Action
	3 consecutive beeps	The Engine Control Unit (ECU) requires the operator to increase load on the engine or increase engine idle speed to a minimum of **1350 RPM**.

Low Idle Increase Active

Display	Audible alert	Action
	5 consecutive beeps	The Engine Control Unit (ECU) will automatically increase engine idle speed to **1350 RPM**. The Engine Control Module (ECU) will allow automatic Hydrocarbon management only if the machine meets the following requirements for **10 min**: • the FORWARD-NEUTRAL-REVERSE (F-N-R) lever is kept in the NEUTRAL position • the park brake is engaged • the engine idle speed is below **1350 RPM**
NOTE: *This automatic engine idle speed increase is inhibited if any of the conditions are not met or certain features are active on the machine. For example: operating the hand or foot throttle.* ***NOTE:*** *The operator is free to interrupt the auto idle increase and operate the machine. The display may change to the low idle increase recommended*  *, if the system determines that additional Hydrocarbon (HC) reduction is required.*		

⚠ Electrical storm safety ⚠

Do not operate machine during an electrical storm.

If you are on the ground during an electrical storm, stay away from machinery and equipment. Seek shelter in a permanent, protected structure.

If an electrical storm should strike during operation, remain in the cab. Do not leave the cab or operator's platform. Do not make contact with the ground or objects outside the machine.

⚠ Mounting and dismounting ⚠

Mount and dismount the machine only at designated locations that have handholds, steps, and/or or ladders.

Do not jump off of the machine.

Make sure that steps, ladders, and platforms remain clean and clear of debris and foreign substances. Injury may result from slippery surfaces.

Face the machine when you mount and dismount the machine.

Maintain a three-point contact with steps, ladders, and handholds.

Never mount or dismount from a moving machine.

Do not use the steering wheel or other controls or accessories as handholds when you enter or exit the cab or operator's platform.

⚠ Working at heights ⚠

When the normal use and maintenance of the machine requires you to work at heights:

- Correctly use installed steps, ladders, and railings.
- Never use ladders, steps, or railings while the machine is moving.
- Do not stand on surfaces that are not designated as steps or platforms.

Do not use the machine as a lift, ladder, or platform for working at heights.

⚠ Lifting and overhead loads ⚠

Never use loader buckets, forks, etc. or other lifting, handling, or digging equipment to lift persons.

Do not use raised equipment as a work platform.

Know the full area of movement of the machine and equipment and do not enter or permit anyone to enter the area of movement while the machine is in operation.

Never enter or permit anyone to enter the area underneath raised equipment. Equipment and/or loads can fall unexpectedly and crush persons underneath it.

Do not leave equipment in raised position while parked or during service, unless securely supported. Hydraulic cylinders must be mechanically locked or supported if they are left in a raised position for service or access.

Loader buckets, forks, etc. or other lifting, handling, or digging equipment and its load will change the center of gravity of the machine. This can cause the machine to tip on slopes or uneven ground.

Load items can fall off the loader bucket or lifting equipment and crush the operator. Care must be taken when lifting a load. Use proper lifting equipment.

Do not lift load higher than necessary. Lower loads to transport. Remember to leave appropriate clearance to the ground and other obstacles.

Equipment and associated loads can block visibility and cause an accident. Do not operate with insufficient visibility.

Keep the load or tool as low as possible while moving the machine around the work site.

Release all hydraulic pressure before servicing the machine.

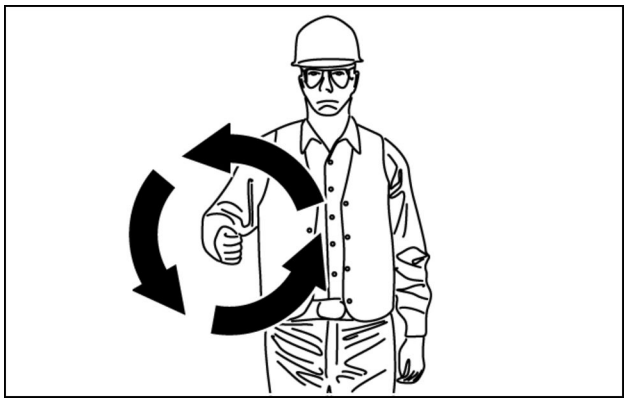
You must know which circuits have accumulators and how to release pressure properly.

Always use the lift arm support strut when servicing the machine with lift arms up.

Hand signals

When operating the machine, never attempt to carry out tasks calling for fine control or to work in areas where visibility is poor or impaired without seeking the assistance of a signal person. Make perfectly sure that you and the signal person understand the signals to be used.

Start the engine



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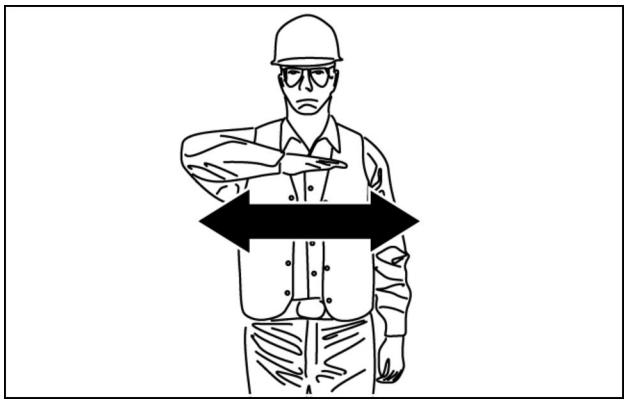
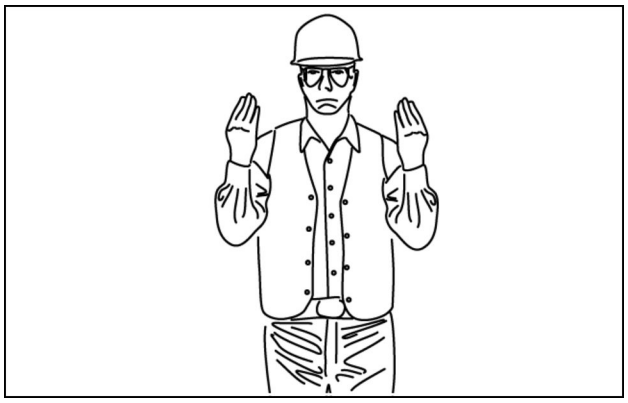
Stop the engine



LEEN11T0006AA 2

Come to me
Wave hands back and forth (palms inward).



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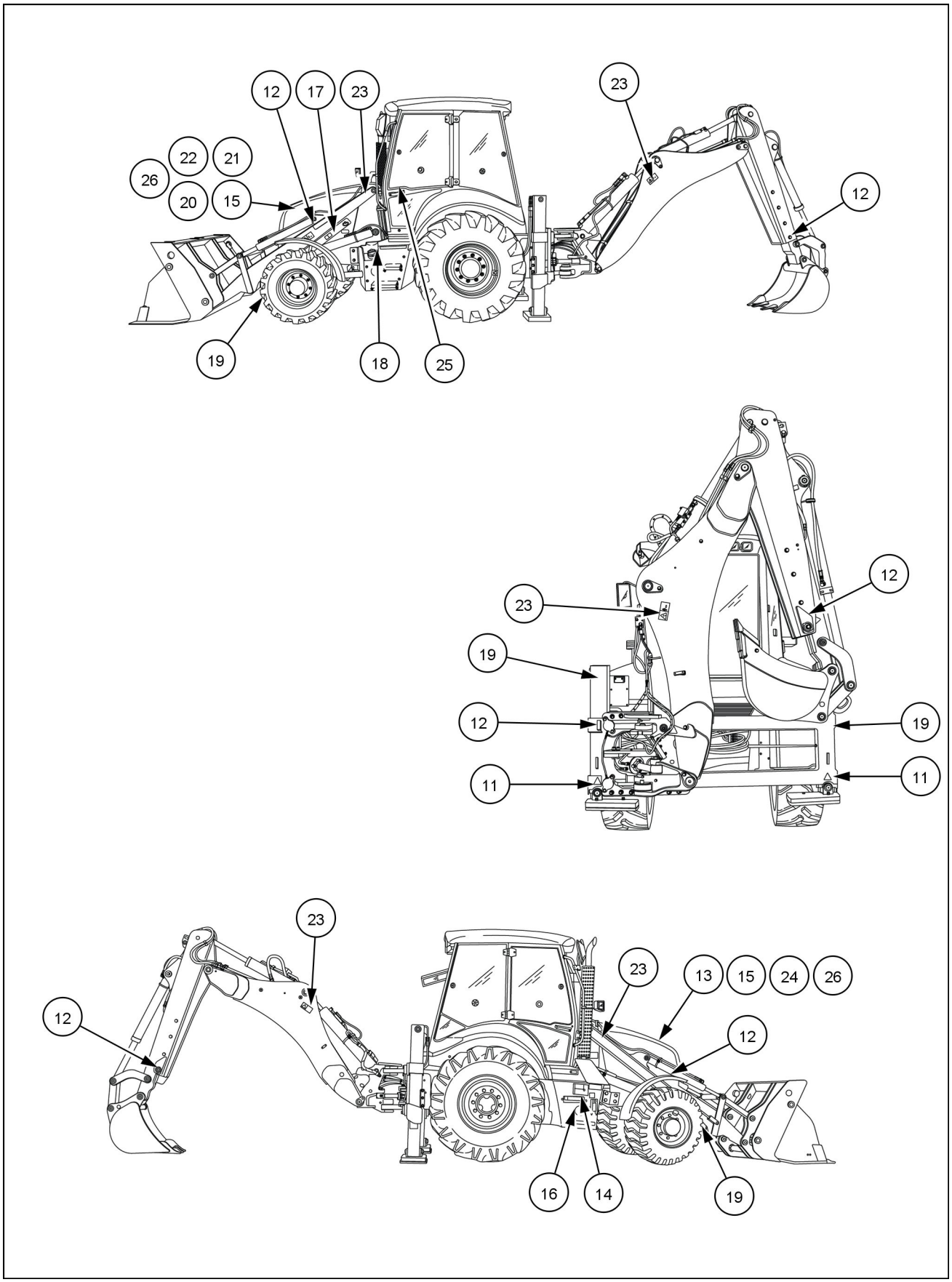
Position of signs



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When replacing safety signs, be sure to install them in the locations shown. Detailed description of the safety signs given below:

25. Maintenance in progress tag

It is mandatory, for maintenance personnel, to apply this maintenance tag to the machine when servicing the machine. Never attempt to start or operate the machine when the maintenance tag is attached to the machine. The tag is a warning that the machine is incomplete and/or about the presence of maintenance personnel.

NOTE: *Attach the tag to the cab door when servicing the machine. Store the tag in the compartment behind the seat.*

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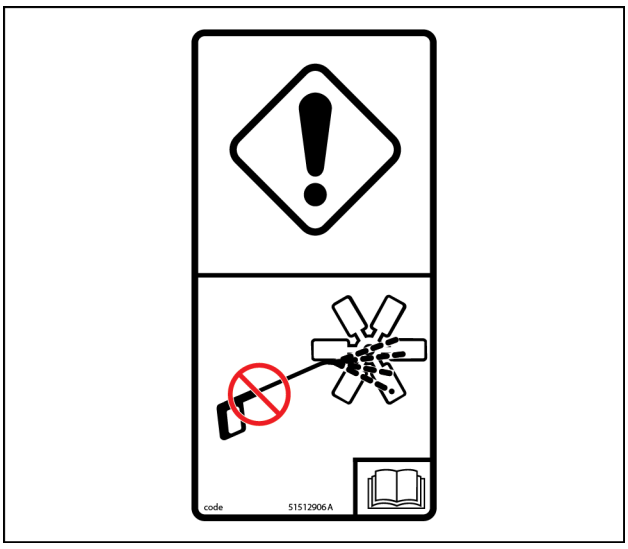
26. Do not pressure wash

Important
Do not pressure wash this area. Fan and surrounding area.
Location:
In engine compartment on the both the left-hand side and the right-hand side of the fan shroud.

Part number:

51512906

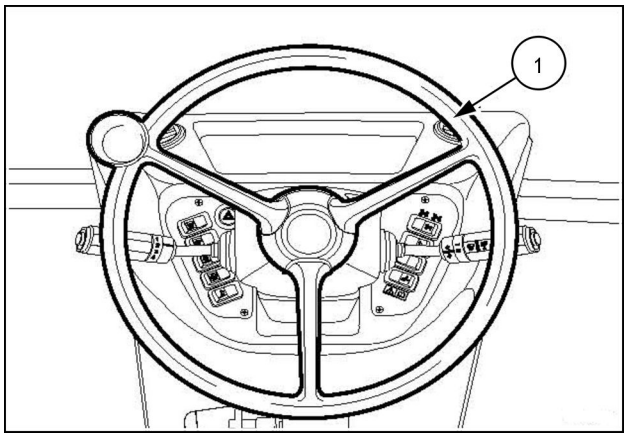


51512906 29

FORWARD CONTROLS

Steering column

The machine is equipped with a hydrostatic power steering, which considerably reduces the effort necessary to turn the steering wheel **(1)**. Familiarize yourself with the effort required to turn the wheel before driving the machine for the first time.



LEEN11T0038AA 1

NOTICE: *Because your machine is equipped with hydrostatic power steering, never hold the steering wheel against either of the steering stops. Failure to observe this precaution may result in damage to the steering system components.*

NOTICE: *If the steering hose broke and the machine could not be steered, stop the machine immediately. Contact your NEW HOLLAND CONSTRUCTION Dealer for further assistance.*

In the event of loss of power steering due to engine failure, the machine can still be driven to a place of safety. The force necessary to turn the steering wheel and steer the machine will, however, be much higher.

Manual transmission

The transmission is fully synchronized providing four forward and four reverse speeds allowing gear ratio changes on the move. A torque converter is used to connect the engine to the transmission and the direction control lever **(3)** enables shifts between forward and reverse travel without disengaging gear ratios.

NOTE: *The transmission disconnects when the parking brake is ON.*

Direction control lever

NOTE: *Stop the machine from moving before switching between FORWARD and REVERSE travel.*

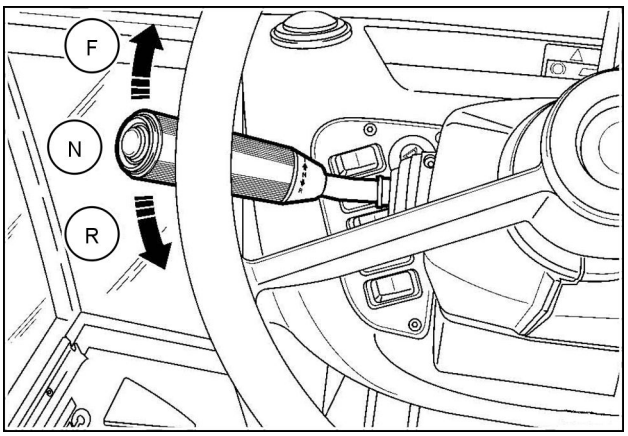
The direction control lever is on the left-hand side of the steering column and controls the direction of travel for the machine.

- The top position **(F)** is FORWARD. To travel forward, lift the lever and push completely forward.
- The center position **(N)** is NEUTRAL. Make sure that the direction control lever is in NEUTRAL before you start the engine or before you operate the backhoe.
- The bottom position **(R)** is REVERSE. To travel in reverse, lift the lever and pull completely rearward. An audible alarm will sound when in reverse.

NOTE: *The engine will not start with the direction control lever in the FORWARD or REVERSE positions.*

NOTE: *The direction control lever is equipped with a neutral lock to prevent an accidental engagement of the transmission. With this design, the direction control lever moves through a "T" slot to the forward or reverse positions.*

NOTICE: *The direction control lever can be shifted at any engine speed; however, as a safety and precautionary measure, the engine must run at approximately* ***1200 RPM****.*
Use the foot accelerator to control engine and ground speed.



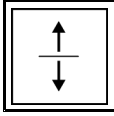
LEEN11T0046AA 2

(5) Rear work light switch

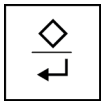
	Rear work light switch: This switch has three positions: • The first position is OFF (control lamp off). • Second position, by pressing the symbol side (first click) the outer rear work lights are turned on (control lamp on). • Third position, by pressing the symbol side again (second click) the inner rear work lights are turned on too (control lamp on).

(6) Side instrument cluster. See **3-31** for more details.

(7) Up/down switch

	Up/down switch: • Press to scroll through the menu or data options shown on the display. The side of the switch you press determines which way you are scrolling through the menu.

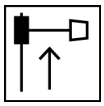
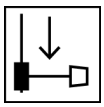
(8) Menu select switch

	Use the escape ◇ button to return to the previous top menu or escape back to the main screen. Use the enter ↵ button to select specific display screens or store screen-defined configuration settings to memory.

(9) Rear windshield wiper and washer switch (cab only)

	Rear windshield wiper and washer switch: This switch has three positions: • Press the switch to activate the windshield wiper. • Press and hold the switch will activate the windshield washer. Release the switch the washer stops and the wiper operates. • Press the blank side to turn OFF the wiper.

(10) Backhoe attachment side shift carriage hydraulic shifting switch (optional)

 	Backhoe attachment side shift carriage hydraulic shifting switch: • This switch allows the operator to hydraulically move the backhoe attachment to the either track side of the machine. • Press the switch on the upper side of the symbol to shift the backhoe attachment to the right-hand side of the track. • Press the switch on the lower side of the symbol to shift the backhoe attachment to the left side of the track (track sides are referred to the travel direction of the machine).

(11) Blank

(12) Blank

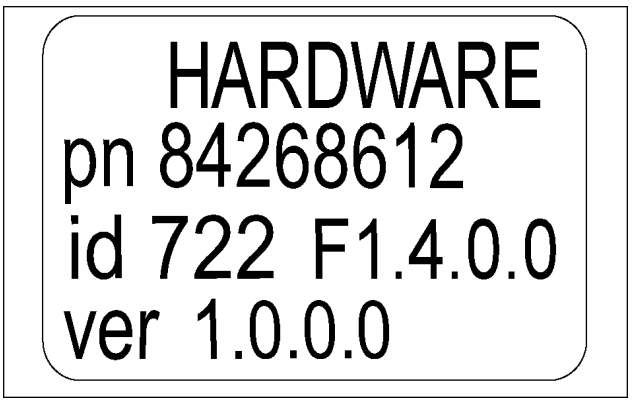
(13) Backhoe attachment side shift carriage locking switch (Side shift version)

	Backhoe attachment side shift carriage locking switch: • It allows locking (control lamp on) or unlocking (control lamp off) the sliding carriage the backhoe attachment is mounted on.

Machine hardware

Displays machine hardware information.

NOTE: *The figure is for example purposes only.*

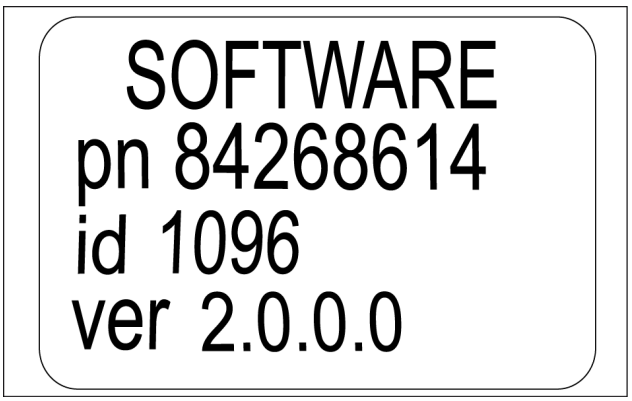


RCPH10TLB422AAF 9

Machine software

Displays machine software information.

NOTE: *The figure is for example purposes only.*

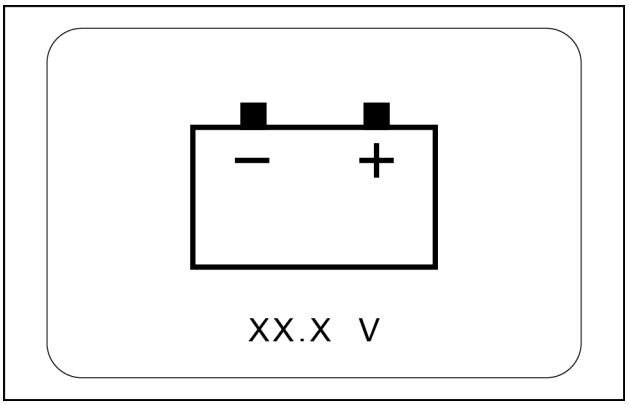


RCPH10TLB421AAF 10

System battery voltage display

Indicates the condition of the electrical system. The electrical system voltage is normal when the display indicates a voltage range of **11.0 – 15.3 V** when the key switch is in the ON position.

NOTICE: *When the charge of the battery is too low or the alternator is not charging enough the display background will be red in color. Damage to the battery can result if this condition continues.*

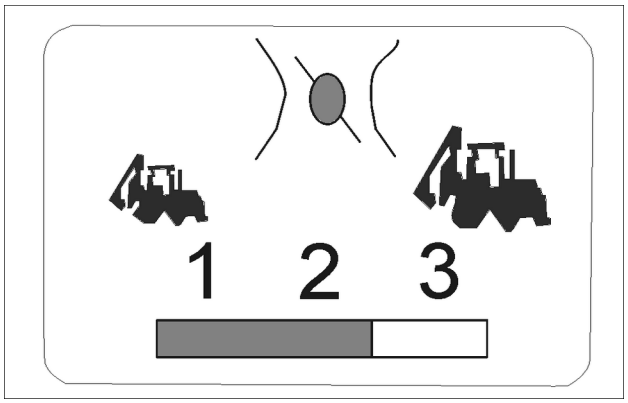


RAIL14TLB1023AA 11

Throttle sensitivity

Select the sensitivity level for the electronic foot throttle, 1 is least aggressive and 3 is most aggressive. Operators may change the electronic throttle sensitivity for working conditions or personal preference.

NOTE: *See “Throttle sensitivity”* ***6-5*** *for more details.*



RCPH10TLB195AAF 12

Validation re-starts

Validation re-starts allow operation of the machine for up to **30 min** without power loss after a poor DEF/AdBlue® quality or SCR system fault has been detected. Up to three re-starts are permitted. Re-starts are counted if either of the following conditions are met:

- Engine speed exceeds **1000 RPM**
- Engine running time exceeds **5 min**

Normal operation will resume if a reset is detected within the **30 min** window.

If a reset is not detected within **30 min**, power loss will occur as described in the flowcharts.

If all three validation re-starts have been used and the system has not been reset, the machine is limited to **50%** torque and engine idle only. See your local authorized NEW HOLLAND CONSTRUCTION dealer for repair.

Follow the sequence in figure **6** to activate validation re-starts.

Loader attachment controls

⚠ WARNING

Misuse hazard!
Before starting the engine, make sure you are fully aware of the location and the function of each control.
Failure to comply could result in death or serious injury.

W0226A

⚠ WARNING

Avoid injury!
Before starting the engine, securely fasten the seat belt. The seat belt can help ensure your safety if it is properly used and maintained. Never wear a seat belt loosely or with slack in the belt system. Never wear the belt if it is twisted or pinched between the seat structures.
Failure to comply could result in death or serious injury.

W0142A

With standard loader bucket

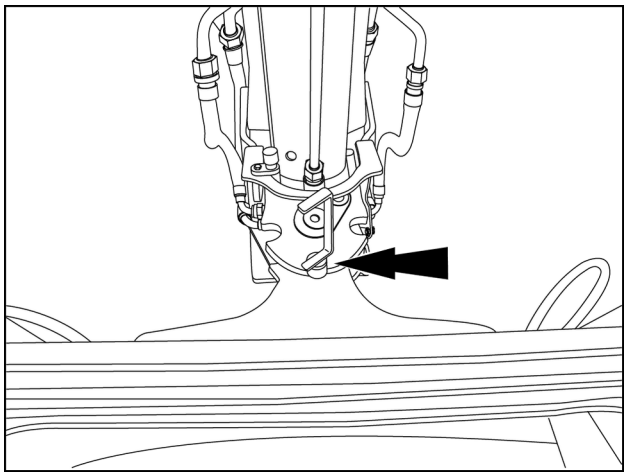
Located on the right of the steering wheel, this nine position lever operates all the loader attachment controls. The speed of movement of each control depends on the angle to which the lever is tilted. In the intermediate position, two movements can be obtained simultaneously.

With 4x1 loader bucket

The function of the lever is identical to that of the machine fitted with the standard loader bucket, with the addition of the clam control.

Removing the backhoe from the stowed position (hydraulically, if equipped)

1. Start the machine.
2. Place the direction control lever in NEUTRAL position.
3. If applicable, place gearshift control lever in the NEUTRAL position.
4. Turn the seat into the backhoe operation position.
5. If applicable, open the rear window.
6. From the operator's seat, remove the swing lock pin and place it in the storage position.



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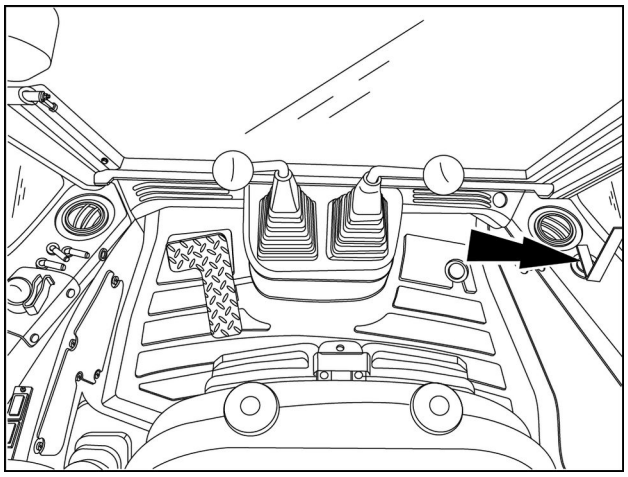


RAIL16TLB1504BA 8

NOTE: *For side shift machines unlatch the cable strap from the stabilizers.*

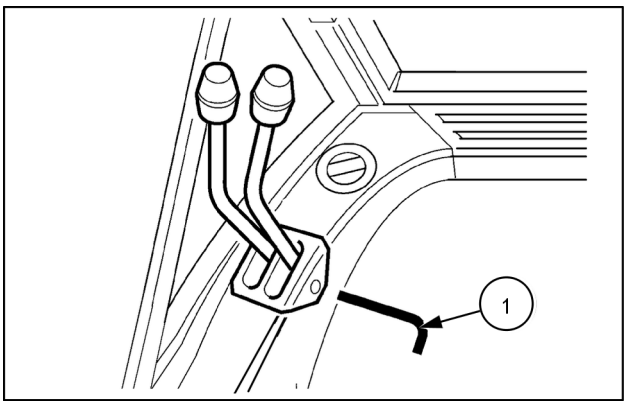
7. Lower the stabilizers to the ground so that the rear tires are just off the ground.

Locking the stabilizer mechanical controls (specific to certain countries)

To lock the stabilizer controls insert the locking pin **(1)** in the location shown.

The stabilizer lock pin **(1)** is kept in the side console when not in use.

NOTICE: *Before leaving the operator's compartment, undertaking any road travel or working with the backhoe attachment, place the pin in the stabilizer locking position.*



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Backhoe mechanical control configurations

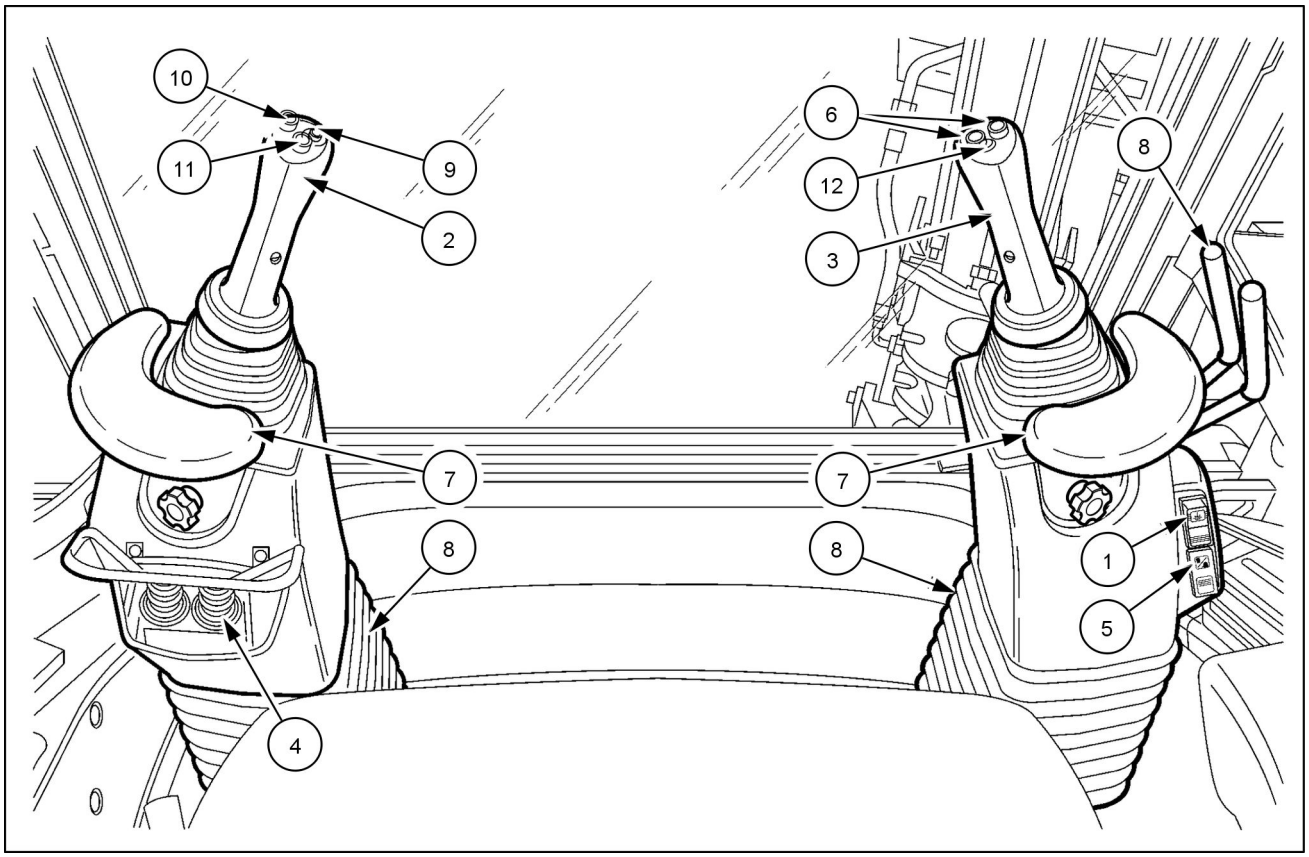
These control levers are used to operate the backhoe attachment. The speed of movement of each control depends on the angle to which the lever is tilted. In the intermediate position, two movements can be obtained simultaneously.

Four backhoe attachment control configurations exist, depending on the country concerned:

- Standard configuration
- **ISO** configuration
- Four lever pattern configuration
- Cross-pattern configuration

The operating pattern of the control levers is different. Check which configuration you have on your machine.

Backhoe attachment pilot controls



MOLI12LBB0178FB 1

1. Control enable switch: With this switch in the ON (lamp on) position, all backhoe attachment hydraulic controls are functional.
2. Left-hand hydraulic control lever: The left-hand hydraulic control lever controls attachment swing and the boom or the dipper (depending on the control pattern adopted).
3. Right-hand hydraulic control lever: The right-hand hydraulic control lever controls the bucket and the boom or the dipper (depending on the control pattern adopted).

   NOTE: *The operating speed depends on the angle of movement of the control levers. In intermediate position, two movements may be obtained simultaneously.*
4. Stabilizer controls: The right-hand control is for the right-hand stabilizer and the left-hand control is for the left-hand stabilizer.
5. Control pattern change switch: This switch is used for changing the standard control pattern to the **ISO** pattern.
6. Telescopic dipper controls (proportional controls): Press the right-hand button to extend the telescopic dipper. Press the left-hand button to retract the telescopic dipper.
7. Wrist rests: The wrist rests may be adjusted to the required height.
8. Hydraulic control lever support angle adjustment: These controls are used for the fore/aft and left/right adjustment of the arm.
9. Horn button (Momentary action control).

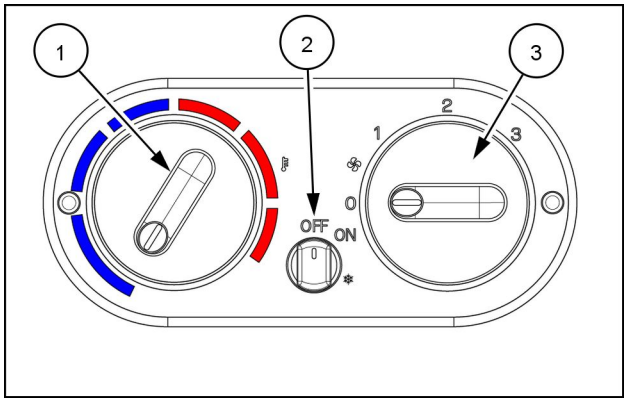
   NOTE: *Machines are not available with both Bi-directional auxiliary controls and Uni-directional auxiliary controls.*
10. Controls of auxiliary bi-directional attachment (two button operation) (If fitted): Proportional buttons for the activation of the additional attachment.
11. Controls of auxiliary uni-directional attachment (one button operation) (If fitted): Proportional button for the activation of the additional attachment.
12. Decelerator button: By pressing this button, the engine rpm sets to low idle. During this phase, the accelerator knob and pedal are disabled.
    By pressing the button again, the engine rpm is restored and the accelerator knob and pedal are functional again.

Climate controls with Air-Conditioning (A/C) (optional)

Activate the Air-Conditioning system:

1. Start the machine.
2. Turn the fan control knob **(3)** to one of the three fan speed settings.
3. Turn the A/C ON/OFF switch t **(2)** o the ON position.

   NOTE: *The A/C symbol **(4)** on the instrument cluster will illuminate when the A/C is On.*
4. Turn the Air-Conditioning (A/C) temperature control knob to the desired temperature. Turn the knob clockwise for warmer air or counter-clockwise for cooler air.
5. Allow the A/C to operate for a few minutes and then adjust the temperature and fan controls to the desired settings.



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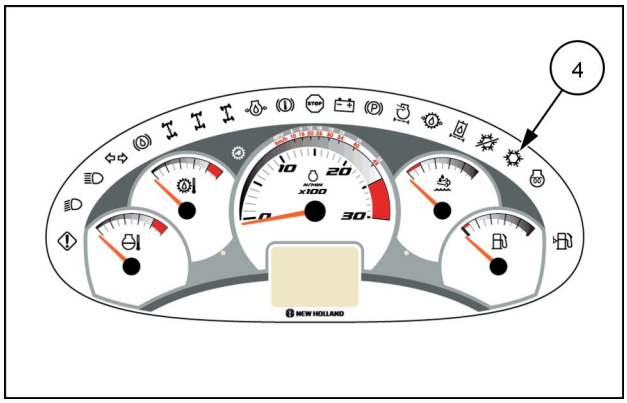

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Machine start up in cold weather

Machines at temperatures below **-2 °C** (**29 °F**):

1. If equipped, plug the engine block heater into an appropriate electrical outlet a few hours before starting the machine.
2. Turn the key switch to the ON position and check the instrument cluster.
3. If the machine is equipped with a pre-heat system, wait for the engine pre-heat lamp to stop illuminating.
4. Turn the key switch to the START position until the engine starts, then release the key.

***NOTE:** If the engine fails to start after a maximum of **30 s** of cranking, repeat the starting procedure. Do not operate the starting motor for more than **60 s**.*

Machines at temperatures of **-15 °C** (**5 °F**) or lower:

- Do not wait longer than **30 s** after the engine pre-heat lamp has stopped illuminating before cranking the engine. If the delay is longer, the start up cycle is aborted and the process must be restarted.
- The Engine Control Unit (ECU) limits the maximum speed of the engine to **1200 RPM** until the engine is properly warmed.

Warm up the hydraulic system

When the temperature is below **4 °C** (**40 °F**) you must warm up the hydraulic system:

1. Run the engine at **1000 RPM** until the coolant temperature is warm.
2. Leave the boom in the transport position with the swing lock pin installed.
3. If the machine is equipped with pilot controls, ensure the backhoe and stabilizer control switch is enabled for all backhoe controls.
4. Raise the engine throttle between **1600 – 1800 RPM**.
5. Place and hold the boom control in the down position.
6. While holding the boom control to the end of the levers, stroke cycle the backhoe bucket in and out.

   ***NOTE:** Watch the filter restriction indicator lamp. If the oil is too cold the lamp will illuminate while the operator cycles the functions.*
7. Cycle the functions for approximately **30 s**.
8. Release the controls and leave the machine throttle set for approximately **15 s**.
9. Repeat steps 6 – 8 until the filter restriction indicator lamp remains off while cycling functions.

***NOTE:** Immediately after the warm up procedure, the machine may operate a bit slower than normal, but will quickly warm to normal operating speeds.*

Traveling on a hill

⚠ WARNING

Driving hazard!
Hillside operations can be dangerous. Rain, snow, ice, loose gravel, or soft ground, etc. can change the ground conditions. You must make a judgment if it is safe to operate your machine on any hillside or ramp.
Failure to comply could result in death or serious injury.

W0144A

⚠ WARNING

Loss of control hazard!
Travel speed should be such that complete control and machine stability is maintained at all times. Where possible, avoid operating near ditches, embankments and holes. Reduce speed when turning, crossing slopes, and on rough, slick, or muddy surfaces.
Failure to comply could result in death or serious injury.

W0233A

⚠ WARNING

Overturning hazard!
Four-wheel drive (4WD) greatly increases traction. Extra caution is needed on slopes. Compared to two-wheel drive, a 4WD machine maintains traction on steeper slopes, increasing the possibility of overturning.
Failure to comply could result in death or serious injury.

W0453A

Before you operate the machine on a hill:

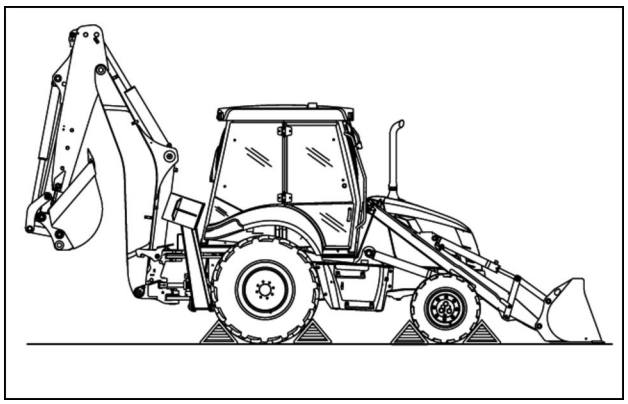
- Always put the transmission in a lower gear and test the service brakes.
- Keep engine speed below **2500 RPM**
- Keep the machine in gear when traveling down a hill.
- Use caution if you must use the clutch cutout when you maneuver the machine.
- Keep loads centered in front of the machine.

PARKING THE UNIT

Parking the machine

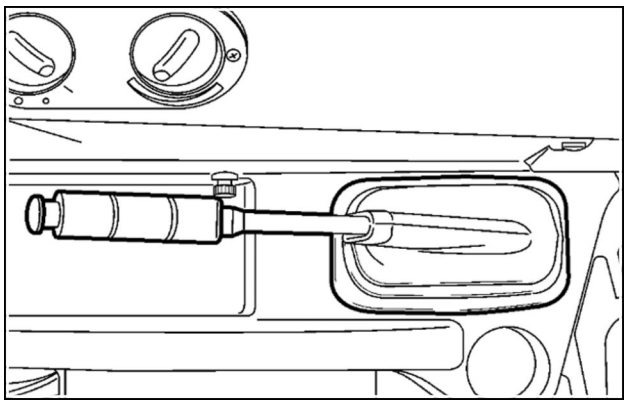
When parking the machine, follow the safety precautions mentioned in this manual.

1. Move the machine to a level and firm ground, away from any soft ground, excavations or poorly shored cavity.
2. Lower the loader attachment to the ground.
3. Place the backhoe attachment in the stowed position and with the swing lock pin in the lock position..
4. Place the direction-of-travel lever and gearshift lever in neutral position.
5. Immobilize the machine by means of the parking brake.
6. Completely raise the stabilizers. For side shift machines lock them in place with the cable tether.
7. Stop the engine and remove the starter switch key.
8. Om mechanical controlled machines, release the hydraulic pressure by operating all of the control levers in all directions.
9. On pilot controlled machines, turn the key to ON and release the pressure by moving all the hydraulic control levers in all directions.
10. If the unit is on a slope, place blocks under the wheels in order to prevent the machine from moving.
11. Disconnect the electrical system by disconnecting the battery master switch.
12. Make sure that the door and the engine guard are correctly fastened and check that the fuel tank plug and the battery compartment are closed.
13. Check that no part of the machine is protruding onto the public highway. If this cannot be avoided, install signs in compliance with the relevant regulations.



LEEN12T0640AA 1

34. Disengage the parking brake.



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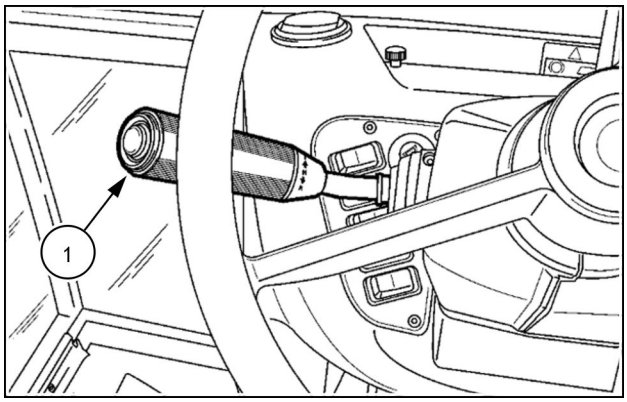
35. Position the direction-of-travel control lever **(1)** forwards.



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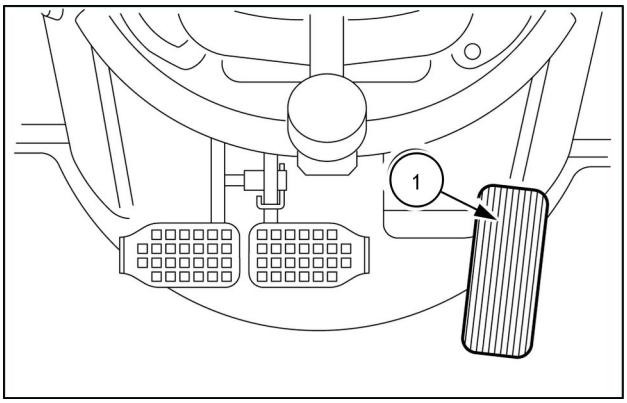
36. Release the brake pedals and adjust the travel speed by means of the accelerator pedal **(1)**.
37. Shift gears as necessary.

NOTE: *Monitor all gauges and indicator/warning lamps frequently.*



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6 - WORKING OPERATIONS

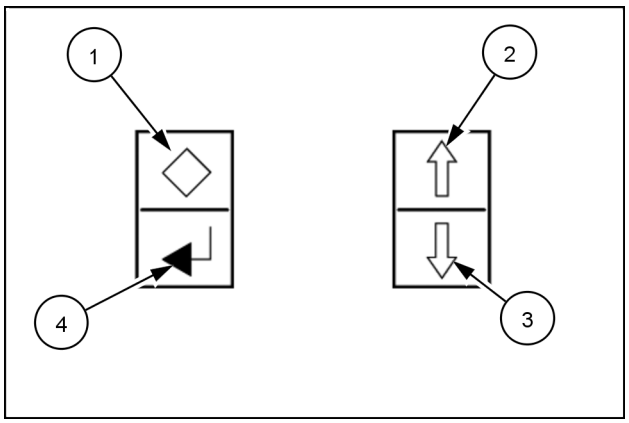
GENERAL INFORMATION

Forward-Neutral-Reverse (F-N-R) shift sensitivity

NOTE: *Machines with the optional Powershift transmissions only.*

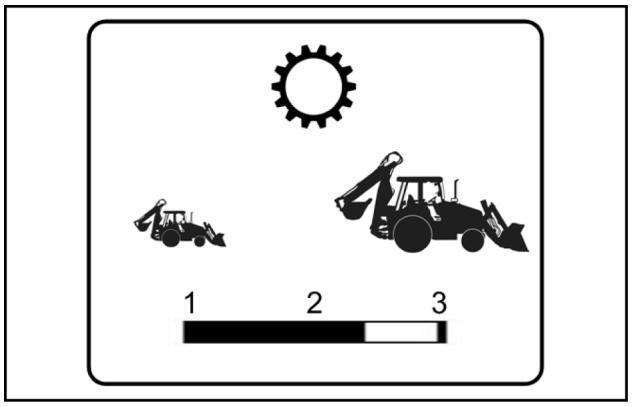
Change F-N-R shift sensitivity:

1. Press Enter **(4)** to access the menu screens.
2. Press the up arrow **(2)** or the down arrow **(3)** to navigate through the menu screens.



LEEN12T0526FA_4 1

3. When the F-N-R shift sensitivity screen displays, press Enter. The setting bar flashes.
4. Press the up arrow or the down arrow to adjust the setting, where 1 is least aggressive and 3 is most aggressive.
5. Press Enter to save the selection.



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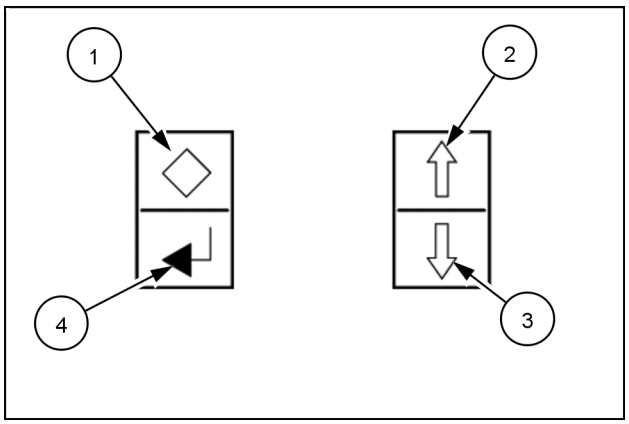
6. Use the arrows to navigate to a different menu screen or press Escape **(1)** until you return the main screen (engine hourmeter).

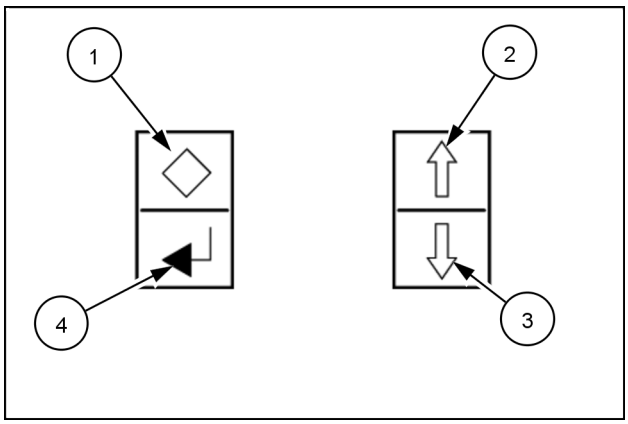


LEEN12T0526FA_4 3

Auto-Glide Ride™ (AGR) speed thresholds

Change the **Auto-Ride Control™** (ARC) speed threshold:

1. Press Enter **(4)** to access the menu screens.
2. Press the up arrow **(2)** or the down arrow **(3)** to navigate through the menu screens.

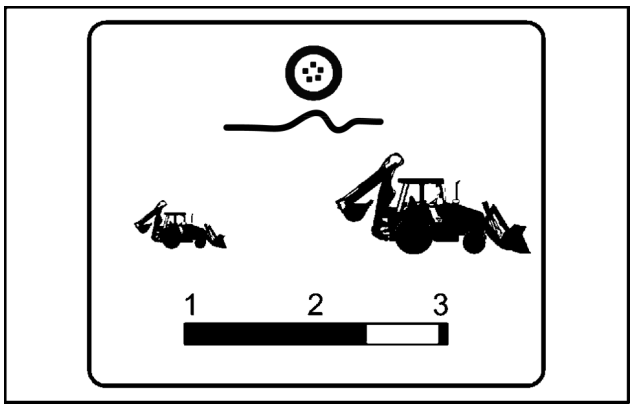


LEEN12T0526FA_4 1

3. When the ARC speed threshold screen displays, press Enter. The setting bar flashes.

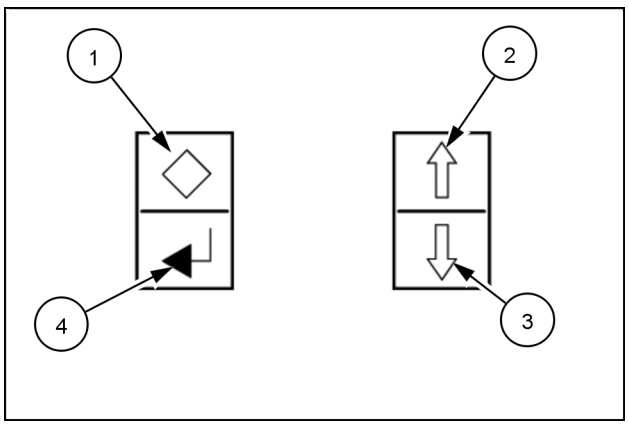
Setting level	ARC activates (speeds faster)	ARC deactivates (speeds slower)
1	**9.2 km/h** (**5.7 mph**)	**7.6 km/h** (**4.7 mph**)
2 (default)	**9.5 km/h** (**5.9 mph**)	**7.9 km/h** (**4.9 mph**)
3	**9.9 km/h** (**6.2 mph**)	**8.4 km/h** (**5.2 mph**)

NOTE: *Speeds are approximate depending on tire size, model, and transmission type.*



RCPH11TLB001AAD 2

4. Press the up arrow or the down arrow to adjust the speed threshold setting.
5. Press Enter to save the selection.
6. Use the arrows to navigate to a different menu screen or press Escape **(1)** until you return the main screen (engine hour meter).



LEEN12T0526FA_4 3

Loader bucket Removal

B100C – B100C LR – B110C – B115C

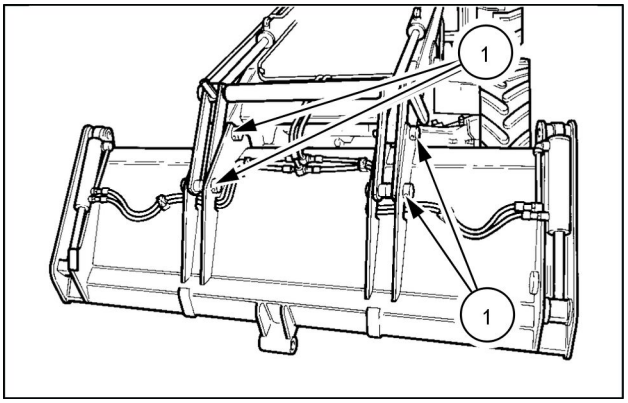
1. Move the machine to a level and firm ground.
2. Lower the bucket to the ground in dump position (tilted completely forward).
3. Stop the engine and remove the starter switch key.
4. If the machine is fitted with a 4x1 bucket, release the pressure from the bucket circuit.

⚠ CAUTION

Flying objects!
Wear eye protection. Do not strike steel parts with a steel hammer. Parts may break.
Failure to comply could result in minor or moderate injury.

C0024A

5. Remove the fastening screws, then remove the pins **(1)** using a hammer with a soft face, such as copper.
6. (4x1 bucket) disconnect and plug the hydraulic supply lines.
7. Start the engine.
8. Operate the attachment controls so as to release the bucket.
9. Reverse the machine from the bucket.



MOLI12LBB0267AB 1

B100C TC – B110C TC – B115C TC

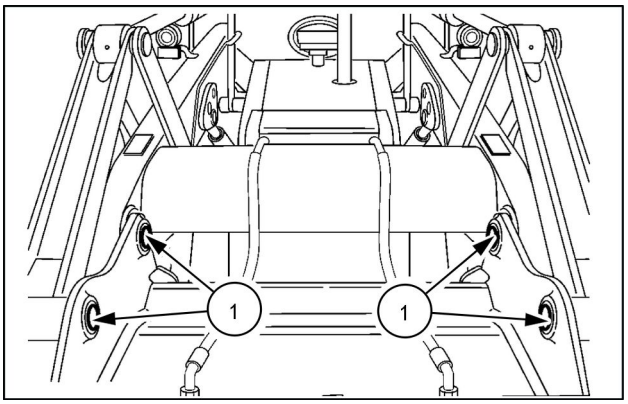
1. Move the machine to a level and firm ground.
2. Lower the bucket to the ground in dump position (tilted completely forward).
3. Stop the engine and remove the starter switch key.
4. If the machine is fitted with a 4x1 bucket, release the pressure from the bucket circuit.

⚠ CAUTION

Flying objects!
Wear eye protection. Do not strike steel parts with a steel hammer. Parts may break.
Failure to comply could result in minor or moderate injury.

C0024A

5. Remove the retaining rings and pins, then drive out the pins **(1)** using a hammer with a soft face, such as copper.
6. (4x1 bucket) disconnect and plug the hydraulic supply lines.
7. Start the engine.
8. Operate the attachment controls so as to release the bucket.
9. Reverse the machine from the bucket.



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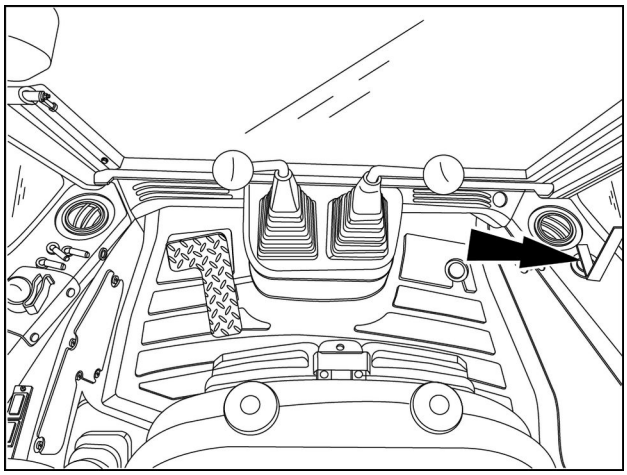
Swing lock

Install the backhoe swing lock pin

Make sure the backhoe swing lock pin is in the LOCK position whenever the backhoe is not in use. To install the backhoe swing lock pin:

1. Place the seat in the backhoe operating position.
2. Center the backhoe over the rear of the machine.
3. Turn off the engine.
4. If applicable, open the rear window.
5. Remove the backhoe swing lock pin from the storage location and place it in the LOCK position.

NOTE: *View is from the operator seat facing the backhoe.*



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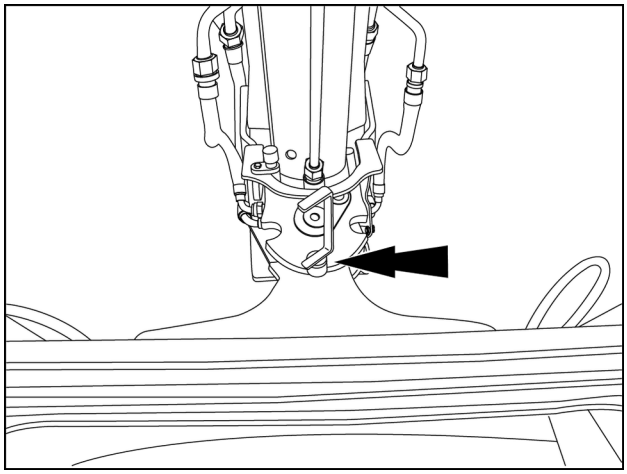


RAIL16TLB1340BA 2

Remove the backhoe swing lock pin:

To remove the backhoe swing lock pin from the LOCK position.

1. Turn off the machine.
2. Place the seat in the backhoe operating position.
3. If applicable, open the rear window.
4. Remove the backhoe swing lock pin from the LOCK position and place it in the storage position.

NOTICE: *After backhoe operations are complete make sure that you put the backhoe in the stowed position with the swing lock pin in the lock position.*

NOTICE: *Do NOT operate the machine if the backhoe swing lock is missing or damaged. Before you operate the machine, contact your dealer for a replacement.*

Stabilizer pads - center pivot machines

⚠ WARNING

Tip-over hazard!
Put the stabilizers in the operating position before you lower the boom and extend the dipper. The front of the machine can raise above the ground and become unstable if the stabilizers are not down in the operating position.
Failure to comply could result in death or serious injury.

W0196A

⚠ WARNING

Tip-over hazard!
Before you raise the stabilizers from the operating position, put the backhoe in the transport position or completely retract the dipper and raise the boom. Make sure the machine tires are touching the ground. The machine can become unstable when the tires are not on the ground.
Failure to comply could result in death or serious injury.

W0195A

Always position the stabilizer pads for maximum stability. If you dig next to a building, wall etc., change the position of the stabilizer pads.

Change the position of a stabilizer pad:

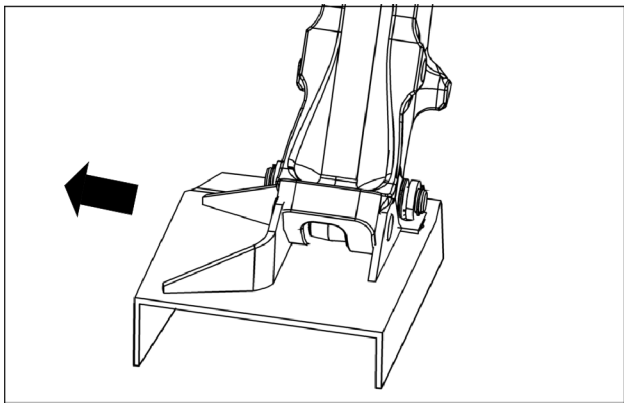
1. Remove a retaining ring from the pin on each stabilizer pad.
2. Use a hammer and drift pin and remove each pin.
3. Put the stabilizer pads into position. For correct stabilizer pad position, refer to stabilizer pad positions later in this section.
4. Install the pins and retaining rings.

Stabilizer pad position

NOTE: *Examples are shown for right stabilizers (backhoe operation position). Arrow indicates front of machine.*

Standard two position stabilizer pads:

- Digging to the side (working next to buildings, walls etc.)



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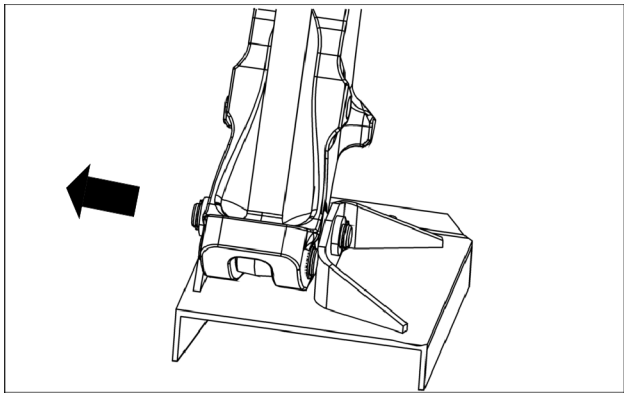
- Maximum stability for digging to the rear and minimum width for traveling



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Ballasting

Tire liquid ballasting

Tire size	Water	Calcium chloride	Tire total weight
12.5/80-18	**89 L** (**23.51 US gal**)	**53 kg** (**117 lb**)	**142 kg** (**313 lb**)
16.9-28	**227 L** (**59.97 US gal**)	**136 kg** (**300 lb**)	**363 kg** (**800 lb**)
18.4-26	**236 L** (**62.34 US gal**)	**142 kg** (**313 lb**)	**378 kg** (**833 lb**)
440/80 R28	**220 L** (**58.12 US gal**)	**129 kg** (**284 lb**)	**349 kg** (**769 lb**)

NOTE: *The tires shown in the table above are for general outfit. Therefore, the tires fitted to your machine may vary from those shown.*

Liquid ballast

Filling the front and rear tires with liquid ballast is a convenient method of adding weight.

A solution of calcium chloride and water is recommended. This gives a low freezing point and provides a higher density than plain water.

⚠ WARNING

Hazardous chemicals!
SLOWLY add calcium chloride flakes to water, stirring continuously. To avoid a violent reaction, NEVER add water to calcium chloride.
If any flakes contact the eyes, flush the eyes immediately with clean, cold water for at least 15 minutes. Seek medical assistance immediately.
Failure to comply could result in death or serious injury.

W0388A

NOTE: *When filling a tire with calcium chloride/water solution, the valve should be placed at the highest point on the wheel. On the contrary, the valve should be placed at the lowest point of the wheel during the tire pressure check and adjustment.*

The table above shows the quantity of calcium chloride and water required for each tire size option [**0.6 kg** (**1 lb**) of calcium chloride per litre of water to give a 75% fill of the tire]. This calcium chloride/water solution will give protection from freezing down to an ambient temperature of **-46 °C** (**-50.8 °F**).

Capacities - B100C, B100C TC, B100C LR

Engine crank case

Specification:
NEW HOLLAND AMBRA UNITEK MASTERGOLD SBL CJ-4 SAE 10W-40
Capacity:
With filter change **8.0 L** (**8.5 US qt**)
API CJ-4, **MAT 3521**

Fuel tank

Specification:
Ultra low sulfur Diesel fuel **EN 590**
Capacity: **131.0 L** (**34.6 US gal**)

Emissions fluid tank

Specification:
DIESEL EXHAUST FLUID (DEF)/ADBLUE®
Capacity: **13.2 L** (**3.5 US gal**)
ES-BS001

Cooling system

Specification:
NEW HOLLAND AMBRA ACTIFULL™ OT EXTENDED LIFE COOLANT
(**50%** concentrate and **50%** distilled water)
Capacity:
With or without heater **24.0 L** (**25.4 US qt**)
MAT3624, **API CH-4**, **ACEA E5**

Hydraulic system

Specification:
NEW HOLLAND AMBRA MULTI G™ HYDRAULIC TRANSMISSION OIL or
NEW HOLLAND AMBRA HYDROSYSTEM 46 BIO-S
Capacity:
Total system **142 L** (**37.5 US gal**)
Reservoir refill to sight glass line **51.2 L** (**13.5 US gal**)
Standard oil: **API GL-4**, **ISO VG-32/46**, NH 410B
Biodegradeable oil: **ISO VG-46 DIN 51524 PART 2**, NH 464 HBS

***NOTE: NEW HOLLAND AMBRA MASTERTRAN® ULTRACTION** is an alternative to **NEW HOLLAND AMBRA MULTI G™ HYDRAULIC TRANSMISSION OIL**.*

Transmission

Specification:		
NEW HOLLAND AMBRA MULTI G™ HYDRAULIC TRANSMISSION OIL		
Capacity:		
Manual (powershuttle)		
	Two-Wheel Drive (2WD)	Four-Wheel Drive (4WD)
Total system	**18.5 L** (**19.5 US qt**)	**20.8 L** (**22.0 US qt**)
Refill (with or without filter change)	**11.9 L** (**12.6 US qt**)	**14.4 L** (**15.2 US qt**)
MAT 3505		
***NOTE:** The master brake cylinder receives fluid from the transmission.*		
Powershift		

- Biodiesel oxidation, which can lead to the formation of deposits that can harm the fuel injection system.

NOTICE: *Any problem in the engine fuel injection equipment associated with non-compliance to the following conditions for biodiesel fuel handling and maintenance will not be covered for Warranty by NEW HOLLAND CONSTRUCTION.*

Purchase biodiesel fuel from a trusted supplier who understands the product and maintains acceptable fuel quality.

The use of biodiesel blends up to B7 will not void the NEW HOLLAND CONSTRUCTION warranty as long as the following conditions for biodiesel fuel handling and maintenance are stringently followed:

Biodiesel fuel must be pre-blended by the supplier. Mixing biodiesel fuels on-site can result in an incorrect mixture that could damage the engine and/or fuel system.

NOTICE: *NEW HOLLAND CONSTRUCTION may void your warranty if the problem is associated with poor fuel quality due to improper blending. It is the responsibility of the fuel supplier and/or yourself to ensure the right type of fuel and blend is delivered and used.*

Storage

The machine should not be stored for more than 6 months with biodiesel in the fuel system. For longer storage time, it is strongly suggested that only regular **EN 590** or #2 diesel fuel is used.

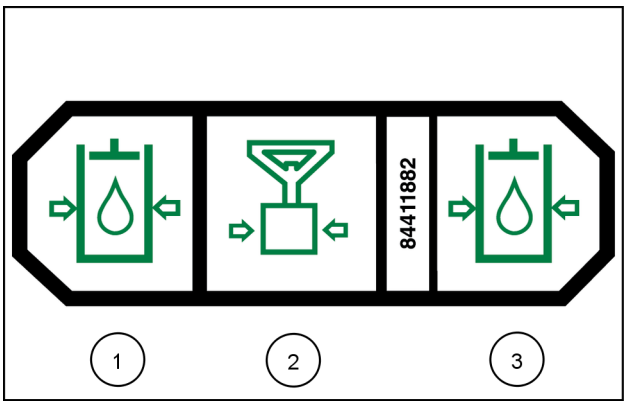
NOTE: *If storage for longer than 6 months is necessary, the engine must be run on regular **EN 590** or #2 diesel for a minimum of 20 hours to flush the biodiesel fuel out of the fuel system prior to storage.*

Biodiesel is highly hygroscopic and tends to collect water more than diesel fuel. This increases the risk of algae and bacteria growth which can cause severe damage to the fuel injection system. Keep the machine fuel tanks and on-site storage tanks as full as possible to limit the amount of air and water vapors inside the tank. Drain water from the tanks at least once a week.

NOTICE: *Use only NEW HOLLAND CONSTRUCTION approved biocide additives on Tier 4B (final), Stage IV and Stage V engines with an exhaust aftertreatment system.*

Machines with backhoe mechanical controls:

- Load sense pressure test port **(1)**
- Pump output pressure test port **(2)**
- Mechanical pressure test port **(3)**



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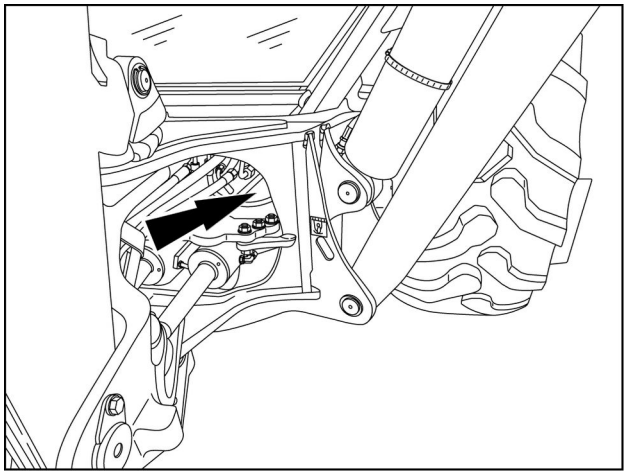
Rear port (attenuator hose) – All machines

At the attenuator hose connector test for pump output pressure, hydraulic flow, or bleed air from the system.

3. After testing is complete make sure all caps on the connectors are securely in place.
4. If applicable, secure the cover plate to the platform.



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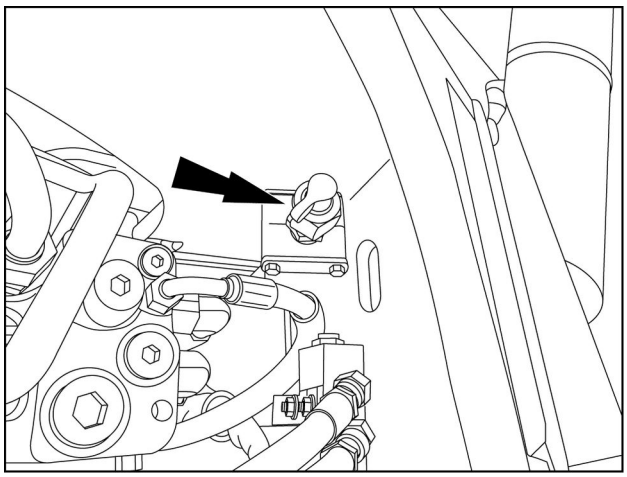

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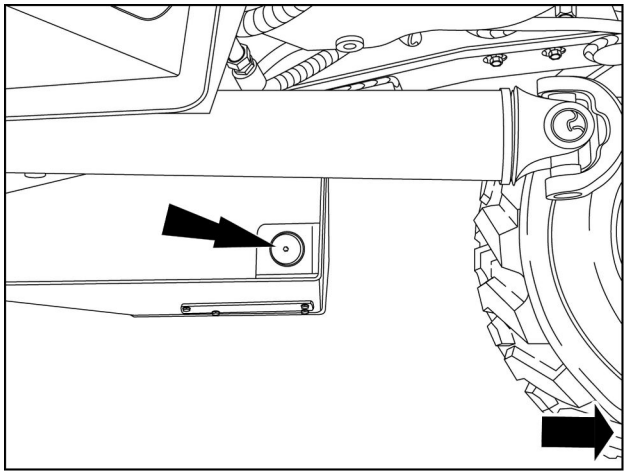
2. Hold a small container under the water separator and loosen the drain valve.
3. Collect a small amount of fluid and inspect for water or sediment.
4. Drain until water or sediment is no longer present.
5. Close the drain valve.
6. If water or sediment was found in the water separator, drain the fuel tank.
   A. Place a collection container under the drain plug and remove the plug.
   B. After water and sediment are removed, install and tighten the plug.

NOTE: *Drain plug is underneath the machine on the back side of the tank.*

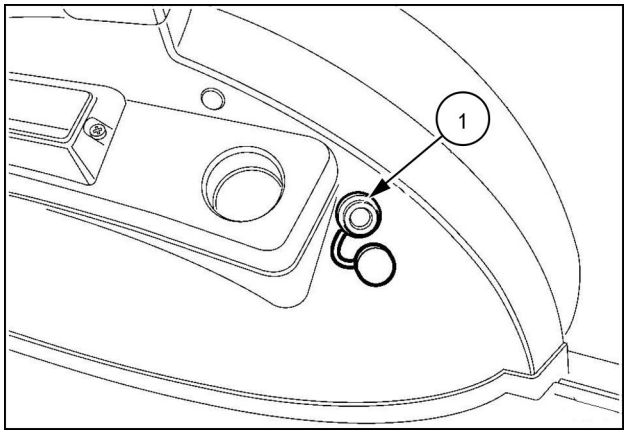


RAIL15TLB0035AA 5

Windshield washer fluid level — Check

1. Move the machine to a level and firm surface.
2. Make sure the machine is in a safe condition.
3. Stop the engine and remove the starter switch key.
4. To check the level of the windshield wiper/washer fluid, open the reservoir cap **(1)** check the windshield wiper/washer fluid.
5. If the wiper/washer fluid is not visible, then refill the reservoir.

NOTICE: *The windshield wiper motor is gravity-fed. Do not remove the rubber tube as damage can be caused if liquid gets into the motor.*



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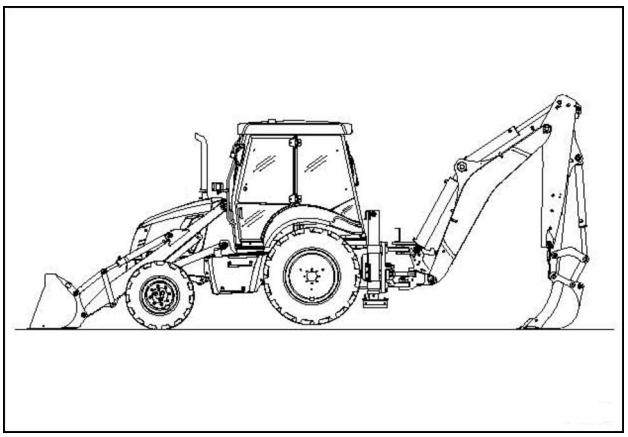
Fluid specification and capacity

Use **TUTELA PROFESSIONAL SC35** or a windscreen washer fluid approved by NEW HOLLAND CONSTRUCTION.

Stabilizers (side shift) - Clearance check and adjustment

Stabilizers clearance check (Side shift machines)

1. Move the machine to a level and firm ground.
2. Lower the loader attachment to the ground.
3. Place the direction-of-travel lever and gearshift lever in neutral position.
4. Immobilize the machine by means of the parking brake.
5. Raise the stabilizers.
6. Lift the machine on one side first and then on the other side by means of the backhoe attachment.
7. Lower the stabilizers, one by one, by **550 mm** (**21.6 in**).
8. Check that the clearance between the stabilizer and the frame is between a minimum of **2.5 mm** (**0.09 in**) and a maximum of **3.5 mm** (**0.13 in**).



LEEN12T0575AA 1

Grease specifications

Use **NEW HOLLAND AMBRA GR 75 MD**(MAT 3550) or a grease which meets the following standard:

- **NLGI 2**

NOTE: ***TUTELA MULTI-PURPOSE EP GREASE 251H, GR-9*** *can also be used.*

Rear 2WS	Tire size 480/80–E26	Profile	Inflation pressure - bar (psi)										
			1 (14.5)	1.2 (17.4)	1.4 (20.3)	1.6 (23.2)	1.8 (26.1)	2.0 (29.0)	2.2 (31.9)	2.4 (34.8)	2.6 (37.7)	2.8 (40.6)	3 (43.5)	3.2 (46.4)
			Max load per tire - kg (lb)										
			1975 (4345)	2205 (4851)	2455 (5401)	2680 (5896)	2910 (6402)	3200 (7040)	3485 (7667)	3690 (8118)	3900 (8580)	4160 (9152)	4420 (9724)	4680 (10296)

Rear 2WS	Tire size 18.4–26	Profile SLR4	Inflation pressure - bar (psi)
			2.5 (36.2)
			Max load per tire - kg (lb)
			4160 (9152)

Rear 2WS	Tire size 16.9–28	Profile SLR4	Inflation pressure - bar (psi)
			2.5 (36.2)
			Max load per tire - kg (lb)
			3690 (8118)

Front and Rear 4WS	Tire size 440/80–R28	Profile IT520 GY IT530 GY	Inflation pressure - bar (psi)										
			1 (14.5)	1.2 (17.4)	1.4 (20.3)	1.6 (23.2)	1.8 (26.1)	2.0 (29.0)	2.2 (31.9)	2.4 (34.8)	2.6 (37.7)	2.8 (40.6)	3 (43.5)	3.2 (46.4)
			Max load per tire - kg (lb)										
			1770 (3894)	1975 (4345)	2205 (4851)	2455 (5401)	2680 (5896)	2910 (6402)	3120 (6864)	3275 (7025)	3590 (7898)	3795 (8349)	4030 (8866)	4160 (9152)

Front and Rear 4WS	Tire size 16.9–24 EZ	Profile ISG	Inflation pressure - bar (psi)										
			1.4 (20.3)	1.5 (21.7)	1.7 (24.6)	2.1 (30.4)	2.5 (36.2)							
			Max load per tire - kg (lb)										
			2200 (4840)	2325 (5115)	2450 (5390)	2910 (6415)	3300 (7260)							

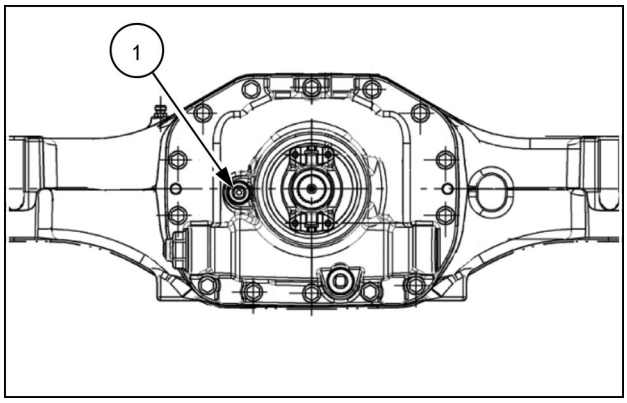
Front and Rear 4WS	Tire size 16.9–28 EZ	Profile ISG	Inflation pressure - bar (psi)										
			1.4 (20.3)	1.5 (21.7)	1.7 (24.6)	2.1 (30.4)	2.5 (36.2)							
			Max load per tire - kg (lb)										
			2325 (5115)	2450 (5390)	2765 (6083)	3120 (6864)	3500 (7716)							

Rear axle oil level - Check

1. Move the machine to a level and firm surface.
2. Lower the loader attachment to the ground.
3. Place the backhoe attachment in the road travel position.
4. Place the direction-of-travel lever and gearshift lever in the neutral position.
5. Engage the parking brake.
6. Stop the engine and remove the starter switch key.

Rear axle - Oil level

1. Unscrew and remove the fill location plug.
   - **(1)** - Two-Wheel Steer (2WS) rear axle
   - **(2)** - Four-Wheel Steer (4WS) rear axle (two plugs)
2. Check the level by checking if the oil reaches the height of the plug hole.
3. If necessary, add additional oil.
4. Insert and tighten the plug **(1)**.



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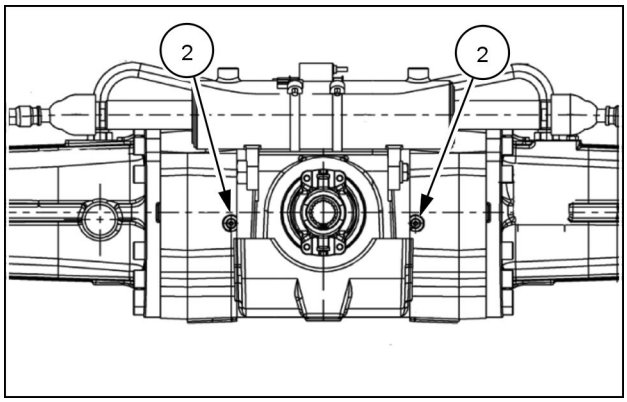


LEEN11T0387AA 2

Oil specification and capacities

5. Use **TUTELA TRANSAXLE FLUID SAE 80W-140** (**MAT 3510**) or an oil meeting the below standard: **SAE 80W-140**.

***NOTE: NEW HOLLAND AMBRA TRX 80W-140** can also be used.*

Capacity: 2WS - **21.2 L** (**22.4 US qt**)

Capacity: 4WS - **11.0 L** (**11.6 US qt**)

Battery terminals

1. Move the machine to a level and firm surface.
2. Lower the loader attachment to the ground.
3. Place the backhoe attachment in the road travel position.
4. Place the direction-of-travel lever and gearshift lever in the neutral position.
5. Engage the parking brake.
6. Stop the engine and remove the starter switch key.

⚠ WARNING

Battery gas can explode!
To prevent an explosion: 1. Always disconnect the negative (-) battery cable first. 2. Always connect the negative (-) battery cable last. 3. Do not short circuit the battery posts with metal objects. 4. Do not weld, grind, or smoke near a battery.
Failure to comply could result in death or serious injury.

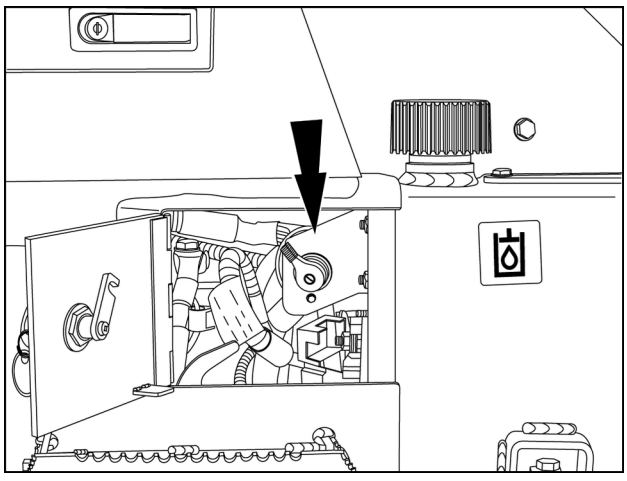
W0011A

⚠ DANGER

Explosion hazard!
Batteries emit explosive gases. Always ventilate when using in an enclosed area or when charging. Keep the battery away from sparks, open flames, and other ignition sources.
Failure to comply will result in death or serious injury.

D0116A

7. Place the battery switch in OFF position.



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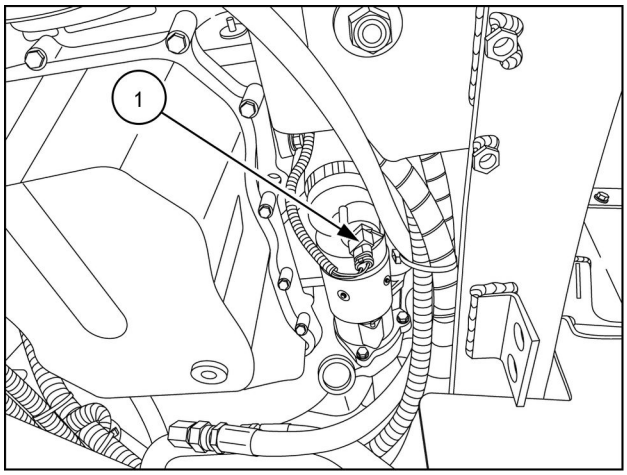
Fuel prefilter

⚠ WARNING

Fire hazard! Avoid injury and/or machine damage!
During maintenance activities, make sure that the high-pressure fuel lines are not damaged. A fuel leak from the high-pressure fuel lines can cause an accident and/or serious personal injury. If the fuel lines are damaged, contact your dealer immediately.
Failure to comply could result in death or serious injury.

W1335A

1. Move the machine to a level and firm surface.
2. Raise the loader attachment and install the safety support strut.
3. Place the backhoe attachment in the road travel position.
4. Place the direction-of-travel lever and gearshift lever in the neutral position.
5. Engage the parking brake.
6. Stop the engine and remove the starter switch key.
7. Release any possible residual pressure from the hydraulic system by moving the control levers in all directions.
8. Open and raise the engine hood.
9. Place a container with a suitable capacity under the machine and fuel prefilter cartridge.
10. Disconnect the electric connector **(1)** under the fuel prefilter cartridge.



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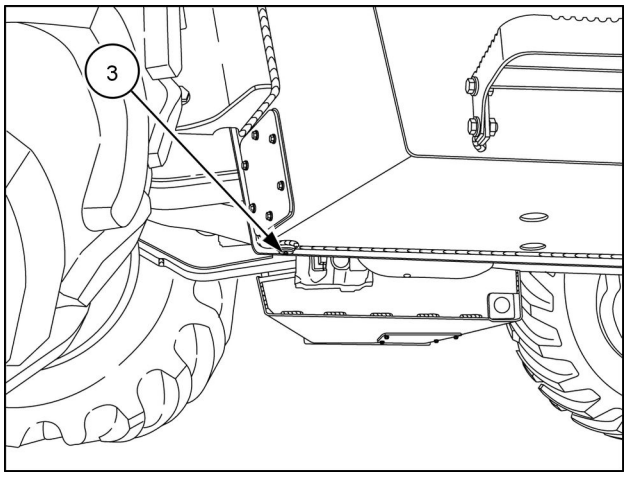
10. Remove the hydraulic oil tank drain plug **(3)**.
11. Drain the hydraulic oil into a suitable container and clean the tank.
12. Reinstall and tighten the drain plug.



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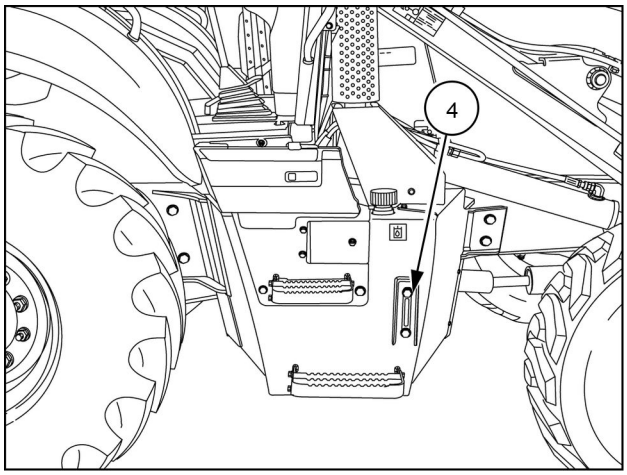
Filling

13. Fill the hydraulic oil tank with **NEW HOLLAND AMBRA MULTI G™ HYDRAULIC TRANSMISSION OIL** until the level reaches the middle of the gauge **(4)**.



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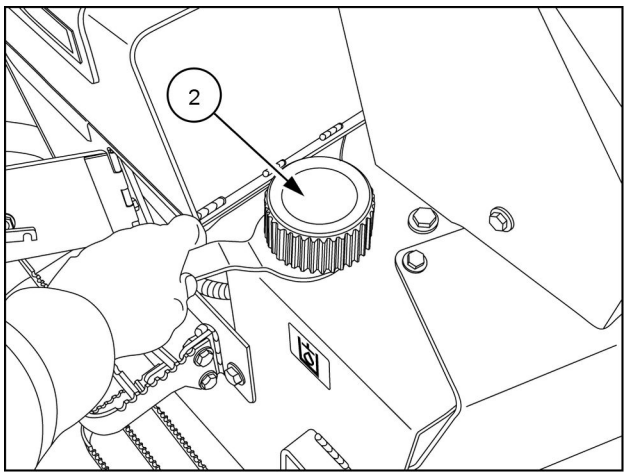
14. Install and retighten the hydraulic oil tank breather/ filler cap **(2)**.



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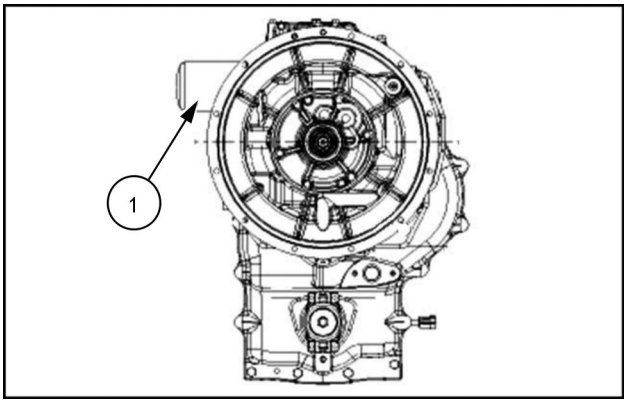
15. Start the engine and operate the loader attachment and backhoe attachment functions for 3 to 4 minutes.
16. Lower the loader attachment back to the ground and place the backhoe attachment in the road travel position.

Powershift transmission - Oil filter replacement

1. Move the machine to a level and firm surface.
2. Raise the loader attachment and install the safety support strut.
3. Place the backhoe attachment in the road travel position.
4. Place the direction-of-travel lever and gearshift lever in the neutral position.
5. Engage the parking brake.
6. Stop the engine and remove the starter switch key.
7. Release any possible residual pressure from the hydraulic system by moving the control levers in all directions.
8. Unlock, open and raise the engine hood.
9. Clean the area around the oil filter and filter head **(1)**.
10. Place a container with suitable capacity under the filter **(1)**.
11. Loosen and remove the filter.
12. Apply a thin layer of oil on the new filter seal.
13. Install the new oil filter **(1)**.
14. Tighten the new filter by hand until the seal touches the filter head.
15. Tighten the filter by hand an additional 2/3 of a turn.

NOTICE: *Overtightening can damage the filter seal.*

16. Start the engine and run the machine with the parking brake engaged and the direction-of-travel lever and gearshift lever in the neutral position.
17. Remove the dipstick **(2)**.
18. Check the oil level, and add additional **NEW HOLLAND AMBRA MULTI G™ HYDRAULIC TRANSMISSION OIL** as necessary.
19. Lower and lock the engine hood.
20. Remove the safety support strut and lower the loader attachment.



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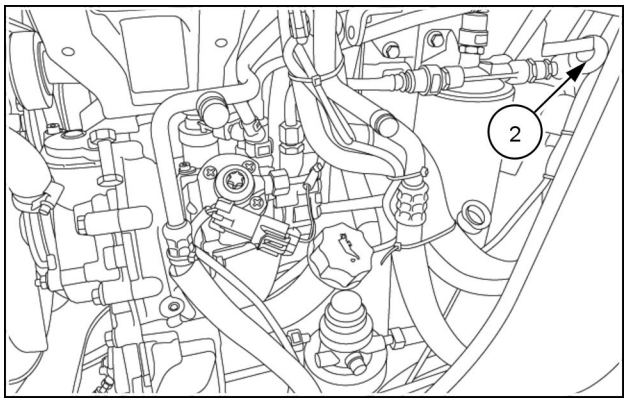

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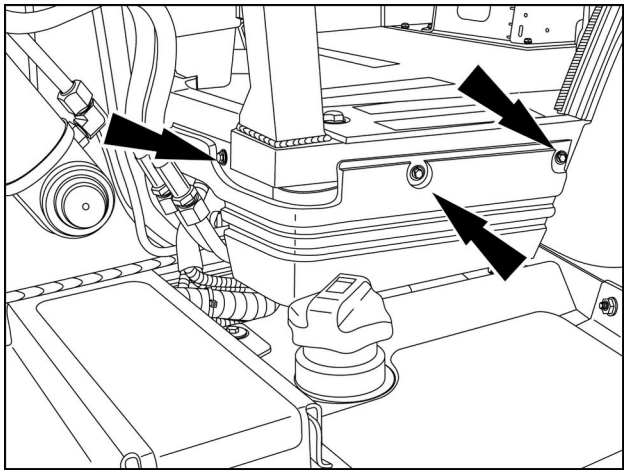
Oil specification and capacities

Use **NEW HOLLAND AMBRA MULTI G™ HYDRAULIC TRANSMISSION OIL**.

Every 3000 hours

Diesel Exhaust Fluid (DEF)/AdBlue® supply module filter

1. To access the supply module, remove the corner shroud.



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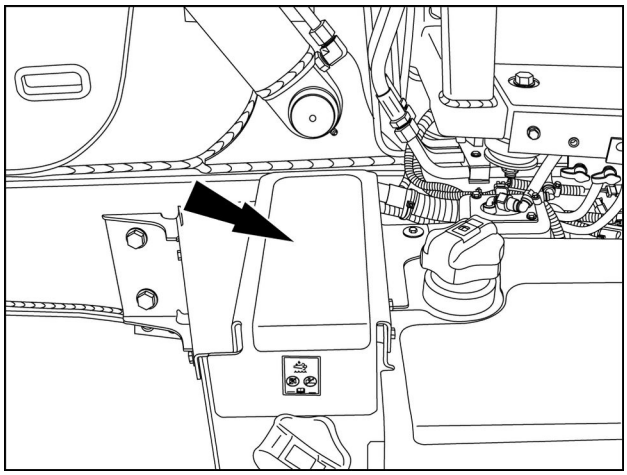
2. Remove the **DEF/AdBlue®** tank cover plate.



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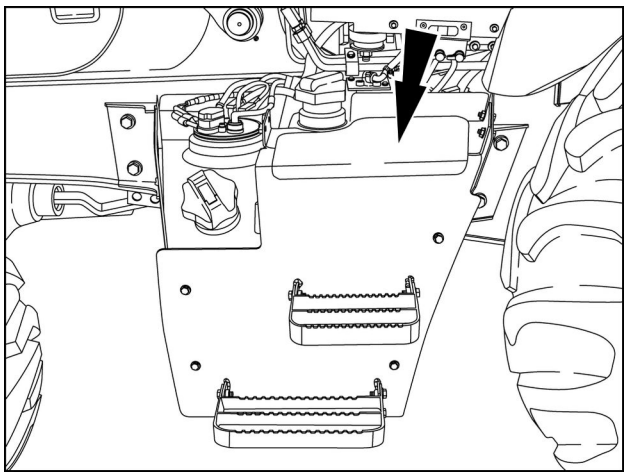
3. Remove the fuel tank step plate.



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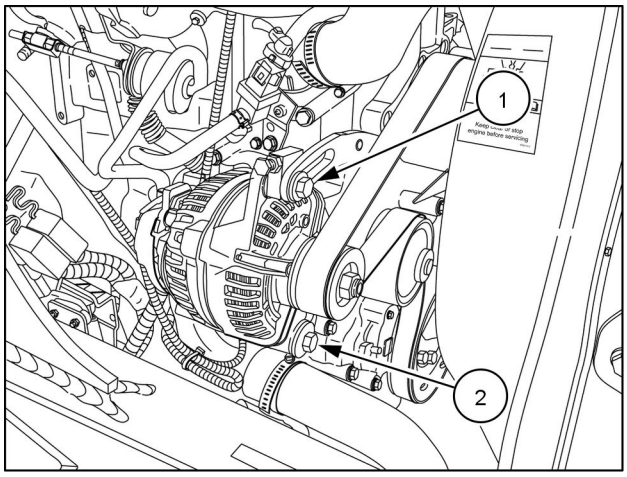
3. Torque to **45 – 55 N·m** (**33 – 41 lb ft**):
   - Pivot bolt **(1)**
   - Lower alternator bolt **(2)**



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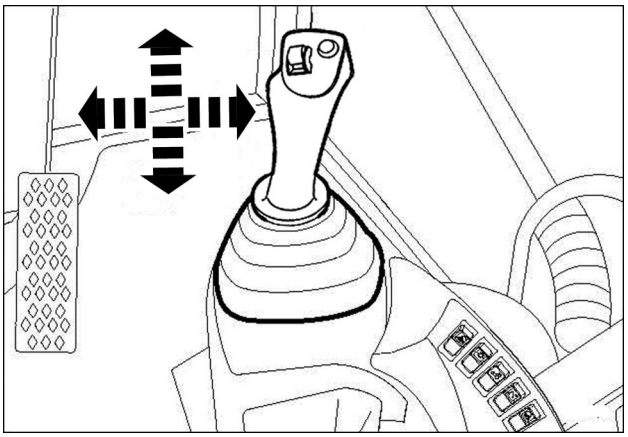
4. Install the air-conditioning compressor drive belt, if removed earlier.

13. Rotate the loader control joystick in one complete circle, stopping in the neutral (center) position.



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14. If applicable, operate the bucket control switch.
15. Turn the key switch to the Off position.

Hydraulic fittings and lines - Replace

1. Before replacing the hydraulic fittings and lines, drain pressure from the hydraulic system.
2. Damaged or leaking lines must be replaced with new lines.
3. Use original spare parts, specially provided to carry out the necessary functions.
4. Never reinstall used lines or fittings.
5. The drained oil or the waste containing oil must be disposed of in an environmentally friendly manner. Do not release on the ground or in water.
6. The hydraulic lines should be replaced after six years of use. In this way, serious failure dangers are prevented.
7. Tighten the fittings to the prescribed torque values.

Fuses

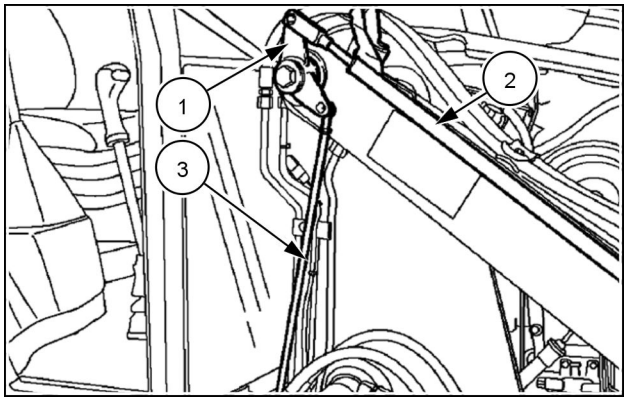
Fuse No.	Rating	Function
F1A	**15 A**	Rear windshield wiper and rear windshield washer
F1B	**7.5 A**	Fuel shut off, +15 antitheft, key switch +15 ECU, reset parking brake
F1C	**10 A**	Stop lights switch
F2A	**15 A**	Instrument side panel, switches lamps
F2B	**15 A**	Air conditioning
F2C	**15 A**	Pilot control
F3A	**3 A**	Rear right/front left side light, instrument illumination
F3B	**3 A**	Rear left/front right side lights, number plate light
F3C	**10 A**	**Glide Ride™** switch, rapid attach, working lights switch, 4x1grab ST3
F4A	–	not used
F4B	**10 A**	Hand tool button, clam bucket level valve and sensor, clutch shut off button and differential block button
F4C	**10 A**	Rear excavator lock, side-shift lock ,working lights switch
F5A	**15 A**	External front inner working lights
F5B	**10 A**	Low beam fuse
F5C	**15 A**	Main beam fuse
F6A	**15 A**	Rotating beacon lamp
F6B	**7.5 A**	(+15) emergency lights
F6C	**7.5 A**	Hand tool, 4WD
F7A	**10 A**	(+30) warning, horn
F7B	**10 A**	Current intake, radio, off lamp
F7C	**15 A**	Front windshield wiper
F8A	**15 A**	External rear outer work lights
F8B	**15 A**	External front outer work lights
F8C	**15 A**	External rear inner work lights

Relays

Relay reference	Designation
K1	Forward-reverse speed switch relay
K3	Starting relay
K4	Bucket level solenoid valve relay
K5	Traffic and main beam lights relay
K6	External front inner work light relay
K7	External rear inner work light relay
K8	External front outer work light relay
K9	External rear outer work light relay
K10	Reverse speed relay
K11	Forward speed relay
K12	Flasher unit relay

Loader bucket - Self-leveling adjustment

1. The self-leveling linkage mounted on the right hand loader arm and frame automatically controls the angle of the loader bucket during the raising cycle of the lift arms to maintain a constant bucket level. There is no self-leveling during the lowering cycle.
2. Self-leveling begins when the tube **(2)** on the loader arm contacts the bell crank **(1)** and lifts the vertical linkage rod **(3)**.
3. The tie rod then moves the bucket spool to the dump position to level the bucket.



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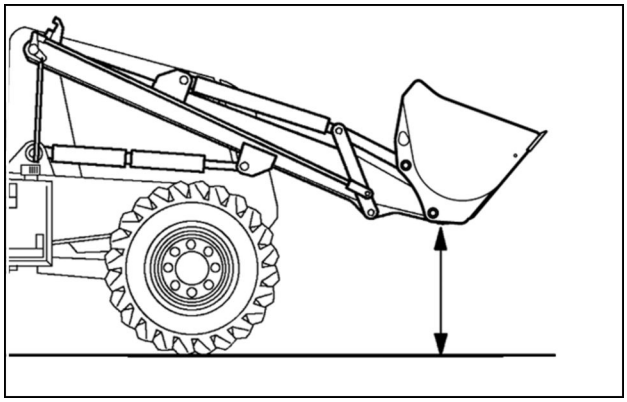
Automatic self-leveling control and adjustment

1. Lower the loader attachment to the ground.
2. Disconnect the vertical tie rod **(3)** at the lower bell crank.
3. Raise the loader attachment so that the lower bucket pin is **800 mm** (**31.5 in**) above the ground, and fully turn over the bucket to the rear.



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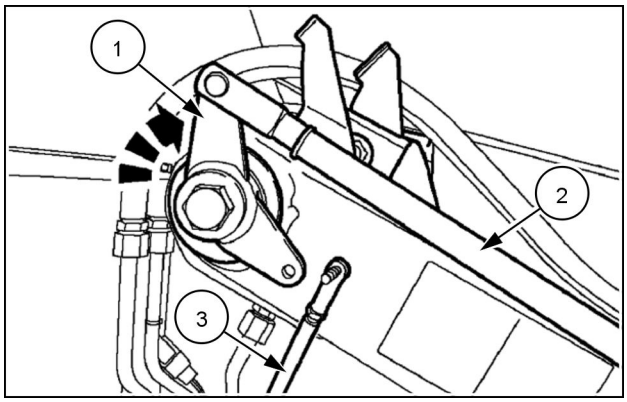
4. Rotate the bell crank **(1)** till it touches the tube **(2)** on the loader arm. Make sure the lower bell crank arm is directing upwards.
5. Adjust the length of the vertical rod **(3)** so that when reconnected, the end of the loader arm tube remains in contact with the bell crank.
6. Securely tighten the lock nuts on a vertical tie rod.



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Starter motor - Troubleshooting

Problem	Possible Cause	Correction
The starter motor does not run.	Too low specific density and battery level.	Inspect the battery.
	Poor ignition switch circuit connection or contact.	Replace the wiring harness and the ignition switch or starter motor runs too slowly.
	Malfunction of the coil or of the magnetic switch pull-in cylinder.	Replace the magnetic switch.
The starter motor running cannot crank the engine.	The pinion gear does not engage with the ring gear.	Repair or replace the clutch and the control lever.
	Sliding clutch.	Replace the clutch.
Anomalous noise.	Anomalous bushing wear.	Replace starter.
	Wear on pinion gear or ring gear tooth tips.	For ring gear damage contact dealer.
	Poor pinion gear sliding.	Replace starter.
The pinion gear springs.	Poor ignition switch return.	Replace the ignition switch.
Field coil loss. Magnetic switch coil burnt, etc.	Pinion gear disengagement fault caused by a coil short circuit in the magnetic switch.	Replace the magnetic switch.

Loader attachment - Troubleshooting

Problem	Possible Cause	Correction
The lifting circuit fails to operate, is slow or loses power.	Valve spool leaking.	Inspect the spool and check it for wear or scratches.
	Cylinder seals leaking or cylinder barrel damaged.	Inspect and reseal the cylinder.
The bucket fails to operate, is slow or loses power.	The relief valves are stuck open, set to a too low value or there is a leak in the seat.	Check the bucket circuit relief valve.
	Valve spool leaking.	Inspect the spool and check it for wear or scratches.
	Cylinder seals leaking or cylinder barrel damaged.	Inspect and reseal the cylinder.
Cylinder leak (spools in neutral).	Damaged cylinder barrel.	Inspect and reseal the cylinder.
	Internal valve leak.	Inspect the spool and check it for wear or scratches.
Hesitation in the raising movement of the loader attachment or of the bucket cylinders when the control is initially actuated.	Load check valve between control valve sections damaged.	Disassemble and inspect.

9 - SPECIFICATIONS

Capacities - B100C, B100C TC, B100C LR

Engine crank case

Specification:
NEW HOLLAND AMBRA UNITEK MASTERGOLD SBL CJ-4 SAE 10W-40
Capacity:
With filter change **8.0 L** (**8.5 US qt**)
API CJ-4, **MAT 3521**

Fuel tank

Specification:
Ultra low sulfur Diesel fuel **EN 590**
Capacity: **131.0 L** (**34.6 US gal**)

Emissions fluid tank

Specification:
DIESEL EXHAUST FLUID (DEF)/ADBLUE®
Capacity: **13.2 L** (**3.5 US gal**)
ES-BS001

Cooling system

Specification:
NEW HOLLAND AMBRA ACTIFULL™ OT EXTENDED LIFE COOLANT
(**50%** concentrate and **50%** distilled water)
Capacity:
With or without heater **24.0 L** (**25.4 US qt**)
MAT3624, **API CH-4**, **ACEA E5**

Hydraulic system

Specification:
NEW HOLLAND AMBRA MULTI G™ HYDRAULIC TRANSMISSION OIL or
NEW HOLLAND AMBRA HYDROSYSTEM 46 BIO-S
Capacity:
Total system **142 L** (**37.5 US gal**)
Reservoir refill to sight glass line **51.2 L** (**13.5 US gal**)
Standard oil: **API GL-4**, **ISO VG-32/46**, NH 410B
Biodegradeable oil: **ISO VG-46 DIN 51524 PART 2**, NH 464 HBS

***NOTE: NEW HOLLAND AMBRA MASTERTRAN® ULTRACTION** is an alternative to **NEW HOLLAND AMBRA MULTI G™ HYDRAULIC TRANSMISSION OIL**.*

Transmission

Specification:		
NEW HOLLAND AMBRA MULTI G™ HYDRAULIC TRANSMISSION OIL		
Capacity:		
Manual (powershuttle)		
	Two-Wheel Drive (2WD)	Four-Wheel Drive (4WD)
Total system	**18.5 L** (**19.5 US qt**)	**20.8 L** (**22.0 US qt**)
Refill (with or without filter change)	**11.9 L** (**12.6 US qt**)	**14.4 L** (**15.2 US qt**)

Hydraulic systems - General specification

GEAR PUMP

72 kW - 97 HP PUMP (B100C — B100CTC)

Model	CASAPPA KP 30.34 - 05 S6 - LMF
Type	double gear pump
Flow rate	35.427 + 35.427 cm3/rev (2.16 + 2.16 in3/rev)

82 kW - 110 HP PUMP (B110C — B110CTC — B115C)

Model	CASAPPA KP 30.38 - 05 S6 - LMF
Type	double gear pump
Flow rate	40.258 + 35.427 cm3/rev (2.45 + 2.16 in3/rev)

VARIABLE-FLOW-RATE PUMP

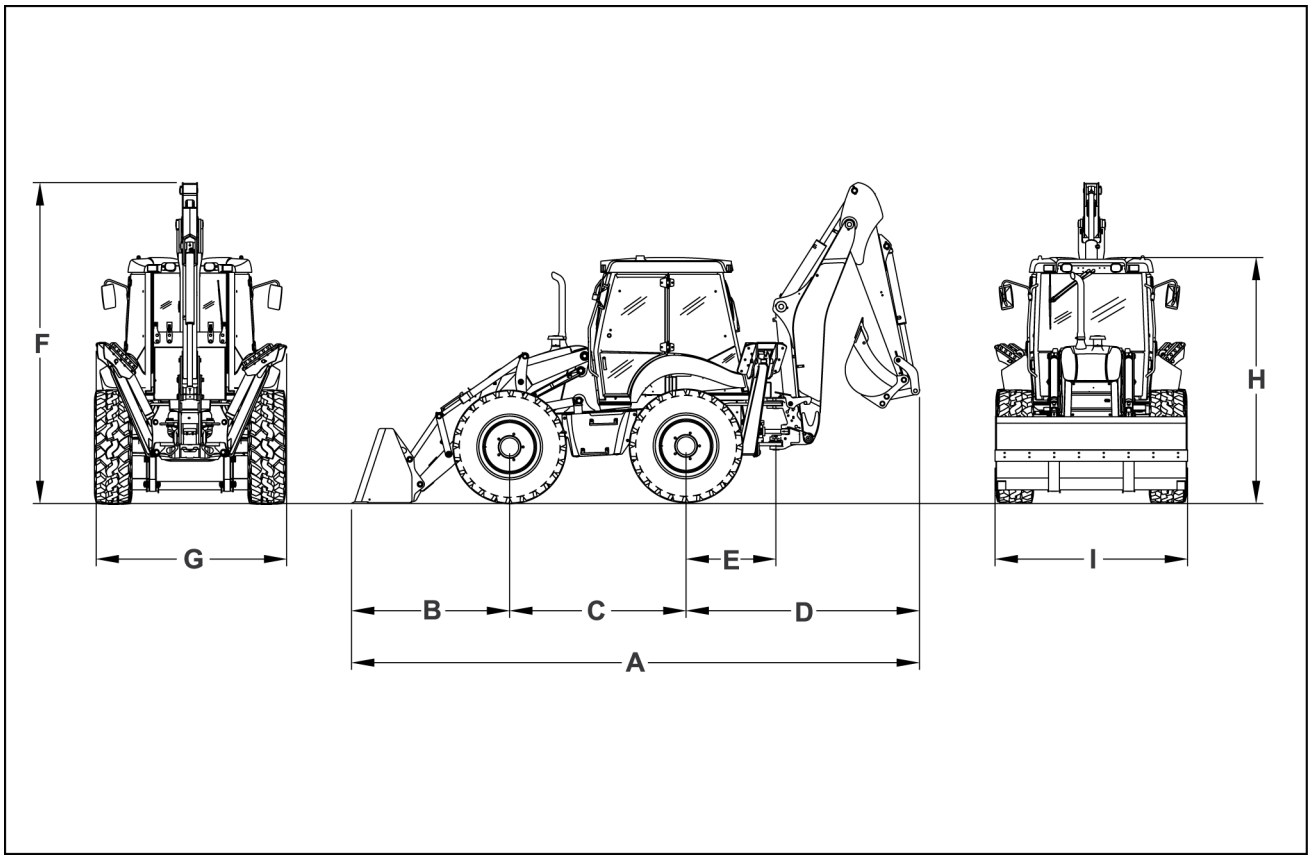
72 kW - 97 HP PUMP (B100C — B100CTC)

Model	CDANFOSS J71C Series 45
Type	with axial pistons
Flow rate	71 cm3/rev (4.33 in3/rev)

82 kW - 110 HP PUMP (B110C — B110CTC — B115C)

Model	DANFOSS J75C Series 45
Type	with axial pistons
Flow rate	75 cm3/rev (4.57 in3/rev)

Dimensions - 4WS center pivot



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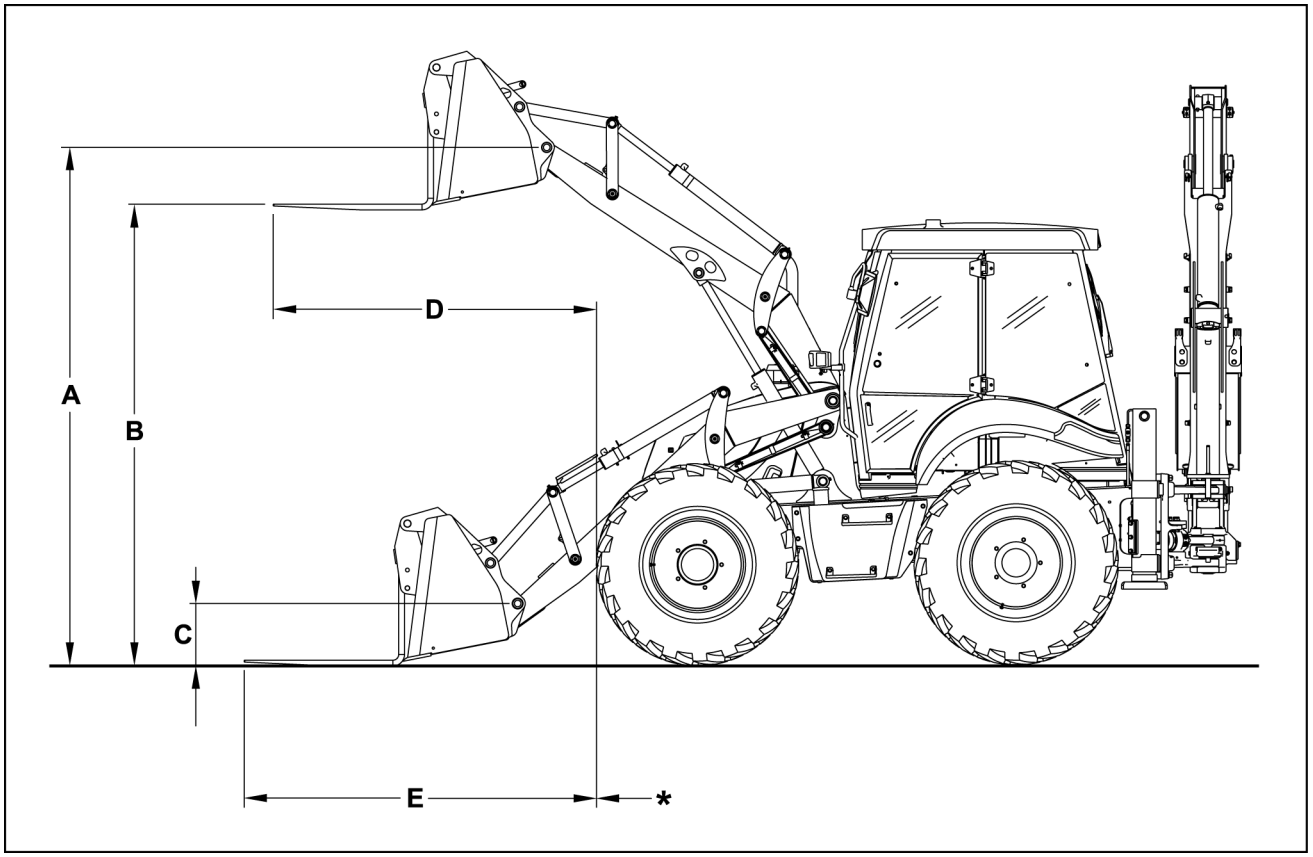
Front and rear tires	440/80-R28 IT530
Standard loader bucket	**1.15 m³** (**40.61 ft³**)
Standard backhoe bucket	**914 mm** (**35.98 in**)

A	Overall machine length	**7080 mm** (**278.73 in**)
B	Loader bucket reach	**2060 mm** (**81.10 in**)
C	Wheel base	**2200 mm** (**86.61 in**)
D	Backhoe bucket dimensions	**2910 mm** (**114.56 in**)
E	Rear wheel base - backhoe attachment swing support	**1120 mm** (**44.09 in**)
F	Maximum machine height	**4013 mm** (**157.99 in**)
G	Stabilizer width	**2380 mm** (**93.70 in**)
H	Cab height	**3060 mm** (**120.47 in**)
I	Loader bucket width	**2400 mm** (**94.48 in**)

B115C



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* Front tires
A. Maximum height of loader bucket pin/pivot with lifted forks
B. Fork maximum height
C. Height of loader bucket pin/pivot with lowered forks
D. Fork reach when raised
E. Fork reach when lowered

Front tires Rear tires	16.9 - R24	16.9 - R28	440/80 R28
A	**3477 mm (136.89 in)**	**3523 mm (138.70 in)**	**3531 mm (139.02 in)**
B	**3051 mm (120.12 in)**	**3098 mm (121.97 in)**	**3106 mm (122.28 in)**
C	**466.0 mm (18.3 in)**	**468.0 mm (18.4 in)**	**466.0 mm (18.3 in)**
D	**2359 mm (92.87 in)**	**2312 mm (91.02 in)**	**2304 mm (90.71 in)**
E	**2658 mm (104.65 in)**	**2584 mm (101.73 in)**	**2570 mm (101.18 in)**

Front tires Rear tires	16.9-24 R4	16.9-28 R4	440/80 R28 IT530	440/80 R28 IT520
A	**5735 mm** (**225.79 in**)	**5798 mm** (**228.27 in**)	**5801 mm** (**228.39 in**)	**5802 mm** (**228.43 in**)
B	**3873 mm** (**152.48 in**)	**3936 mm**	**3936 mm** (**154.96 in**)	**3940 mm** (**155.12 in**)
C	**4547 mm** (**179.02 in**)	**4484 mm** (**176.54 in**)	**4481 mm** (**176.42 in**)	**4480 mm** (**176.38 in**)
D	**4177 mm** (**164.45 in**)	**4114 mm** (**161.97 in**)	**4111 mm** (**161.85 in**)	**4110 mm** (**161.81 in**)
E	**2065 mm** (**81.30 in**)			
F	**1471 mm** (**57.91 in**)			
G	**5436 mm** (**214.02 in**)	**5428 mm** (**213.70 in**)	**5427 mm** (**213.66 in**)	**5427 mm** (**213.66 in**)
α	204°			

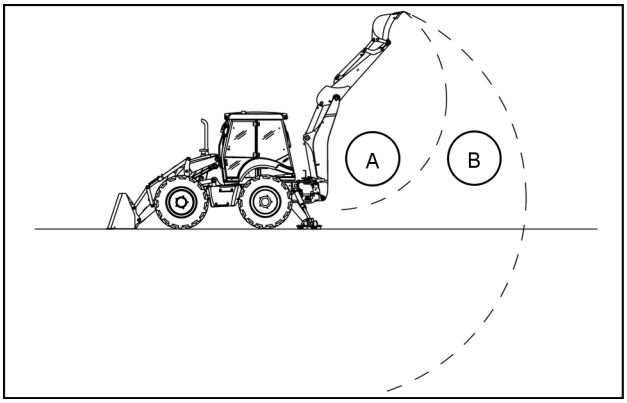
Lifting capacity - models B115C (center pivot)

Lifting capacity in normal operating mode - SAE rated

The following table reports the lifting capacities of the dipper“A” and the boom“B”.

NOTE: *The capacities indicated may slightly vary from one machine to another, according to the accessories mounted, the pressure settings and the market requirements.*

Lifting capacities are given in kg (lb) for a standard dipper and a telescopic dipper.



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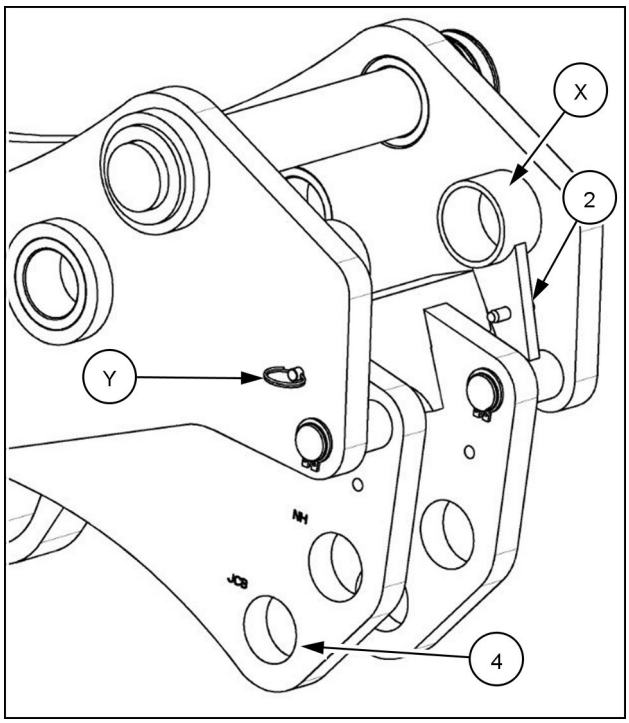
Dipper		Telescopic dipper (retracted)		Telescopic dipper (extended)		Height/depth
Dipper A	Boom B	Dipper A	Boom B	Dipper A	Boom B	
					545 kg (1202 lb)	+5.4 m (18 ft)
	1085 kg (2392 lb)		1005 kg (2216 lb)		835 kg (1841 lb)	+4.9 m (16 ft)
	1485 kg (3274 lb)		1385 kg (3053 lb)	1500 kg (3307 lb)	975 kg (2150 lb)	+4.3 m (14 ft)
2620 kg (5776 lb)	1625 kg (3583 lb)	2425 kg (5346 lb)	1510 kg (3329 lb)	1600 kg (3527 lb)	1050 kg (2315 lb)	+3.6 m (12 ft)
2560 kg (5644 lb)	1660 kg (3660 lb)	2450 kg (5401 lb)	1540 kg (3395 lb)	1615 kg (3560 lb)	1090 kg (2403 lb)	+3.0 m (10 ft)
2620 kg (5776 lb)	1660 kg (3660 lb)	2505 kg (5523 lb)	1535 kg (3384 lb)	1640 kg (3616 lb)	1105 kg (2436 lb)	+2.4 m (8 ft)
2875 kg (6338 lb)	1645 kg (3627 lb)	2750 kg (6063 lb)	1515 kg (3340 lb)	1730 kg (3814 lb)	1115 kg (2458 lb)	+1.8 m (6 ft)
3700 kg (8157 lb)	1620 kg (3571 lb)	3550 kg (7826 lb)	1490 kg (3285 lb)	1870 kg (4123 lb)	1120 kg (2469 lb)	+1.2 m (4 ft)
6280 kg (13845 lb)	1600 kg (3527 lb)	6075 kg (13393 lb)	1460 kg (3219 lb)	2120 kg (4674 lb)	1120 kg (2469 lb)	+0.6 m (2 ft)
	1575 kg (3472 lb)		1435 kg (3164 lb)	3660 kg (8069 lb)	1115 kg (2458 lb)	0 (ground)
	1555 kg (3428 lb)		1410 kg (3109 lb)	5745 kg (12666 lb)	1115 kg (2458 lb)	-0.6 m (-2 ft)
	1545 kg (3406 lb)		1400 kg (3086 lb)		1120 kg (2469 lb)	-1.2 m (-4 ft)
	1550 kg (3417 lb)		1395 kg (3075 lb)		1125 kg (2480 lb)	-1.8 m (-6 ft)
	1580 kg (3483 lb)		1415 kg (3120 lb)		1145 kg (2524 lb)	-2.4 m (-8 ft)
	1670 kg (3682 lb)		1500 kg (3307 lb)		1180 kg (2601 lb)	-3.0 m (-10 ft)
	2070 kg (4564 lb)		1855 kg (4090 lb)		1250 kg (2756 lb)	-3.6 m (-12 ft)
					1430 kg (3153 lb)	-4.2 m (-14 ft)
					2230 kg (4916 lb)	-4.8 m (-16 ft)

The universal coupler with the spacer links **(X)** in position **(2)** allows for compatibility with JCB™ buckets **(4)**. The spacer links **(X)** are held in place with the retaining pin **(Y)**.

JCB™ compatible buckets:

- 980/89980 - 980/89986 (Deep profile)
- 980/89988 - 980/89995 (General purpose)
- 900/90005 - 980/90012 (Heavy duty)



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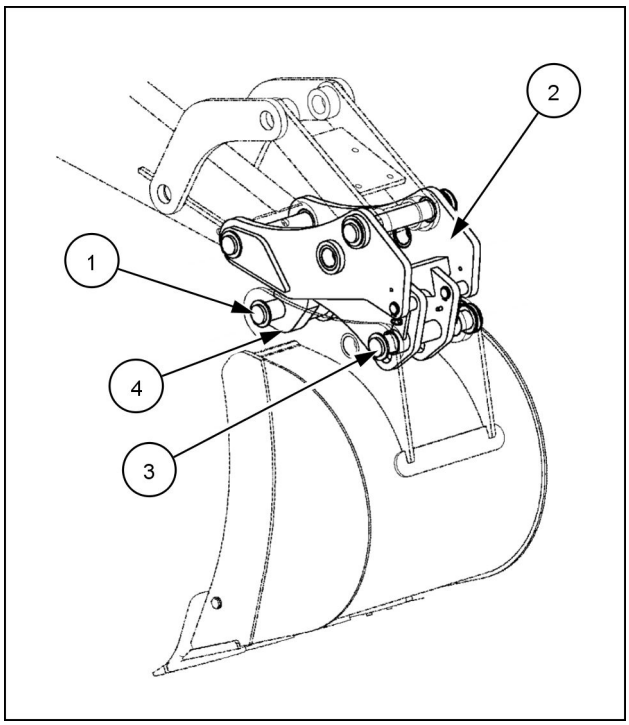
1. Identify what brand bucket you will be installing. Adjust the spacer links accordingly.
2. Use the hook on the universal coupler **(4)** to engage the pre-installed front bucket pin **(1)** on the bucket.
3. Rotate the coupler to align the holes in the universal coupler **(2)** with the holes in the lower lug of the bucket .
4. Insert the bucket pin **(3)** through the upper holes in the lower lug of the bucket and the lower holes in the universal coupler **(2)**.
5. Secure the bucket pin **(3)** in place with the bucket pin hardware.



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