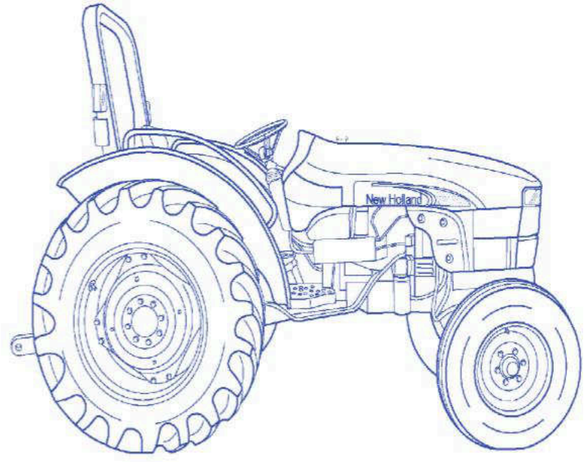


NEW HOLLAND

TT45A
TT50A

REPAIR MANUAL

NEW HOLLAND

SERVICE

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TT45A, TT50A
REPAIR MANUAL
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The following pages are the collation of the contents pages from each section and chapter of the TT45A, TT50A Repair manual. Complete Repair part # 87655297.

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

The sections listed above are the sections utilized for the TT45A, TT50A Tractors.

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SECTION 00 - GENERAL

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Chapter 1 - General

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SECTION 10 - ENGINE

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Chapter 1 - Engine

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LUBRICATION SYSTEM	N844	N844L
Pressure Relief Valve		
Opening Pressure	2.9 - 3.4 bar (42.66 - 49.7 psi)	2.9 - 3.4 bar (42.66 - 49.7 psi)
Fully Open at 3000 rpm	4.9 bar (71.1 psi)	4.9 bar (71.1 psi)
Rotor-to-Vane Clearance		
Standard	0.1 - 0.15 mm (0.004 - 0.006 in)	0.1 - 0.15 mm (0.004 - 0.006 in)
Maximum	0.25 mm (0.010 in)	0.25 mm (0.010 in)
Rotor-to-Cover Clearance		
Standard	0.1 - 0.15 mm (0.004 - 0.006 in)	0.1 - 0.15 mm (0.004 - 0.006 in)
Maximum	0.20 mm (0.008 in)	0.20 mm (0.008 in)
Oil Pump Volume	4.5 L (1.18 gal.)	4.5 L (1.18 gal.)
COOLING SYSTEM		
Type of System	Pressurized liquid w/recirculating by-pass	
Water Pump	Centrifugal	
Drive Belt Deflection (Tension)	5 - 10 mm (0.2 - 0.4 in) when 5 kg (2.3 lb) force is applied midway between pulleys.	
Thermostat		
Starts to Open	80 - 84°C (176 - 183°F)	
Fully Open	95°C (203°F)	
Radiator Cap Pressure Rating	0.9 bar (13 psi)	
Coolant	Ethylene glycol and water in a 50/50 mixture.	
Capacity	N844 7.9 liters (8.3 U.S. qts)	N844L 8.0 liters (8.4 U.S. qts)

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CONDITION	CAUSE	REMEDY
Engine emits black smoke	Restricted air intake	Check for restrictions in the air intake
	Engine overheating	Check cooling system
	Incorrect timing	Check pump timing
	Faulty injectors	See "Troubleshooting - Fuel Injectors" later in this section
	Low compression	Check for air leaks on the suction side of system. Bleed the fuel system
	Incorrect engine timing	Check for improper valve adjustment or faulty valve
Pump fails to deliver fuel to all injectors	Blocked fuel lines to pump	Remove fuel lines and flush or replace
	Air in system	Check for air leaks on the suction side of system. Bleed the fuel system
	Control rod seized in "OFF" position	Repair or replace control rod
Pump fails to deliver fuel to one injector	Air in fuel line to injector	Bleed fuel line
	Plunger spring broken	Replace spring
	Plunger seized	Repair or replace barrel and plunger assembly
	Delivery valve seized	Repair or replace delivery valve
	Badly scored plunger and barrel	Replace plunger and barrel assembly
Governor fails to maintain maximum or minimum no-load fuel delivery	Control spring broken	Replace control spring
	Governor weights seized	Repair or replace weight assembly and/or camshaft
	Governor weight carrier broken	Replace weight assembly
	Nose cone seized	Replace nose cone and/or camshaft
	Pump link spring broken	Replace spring

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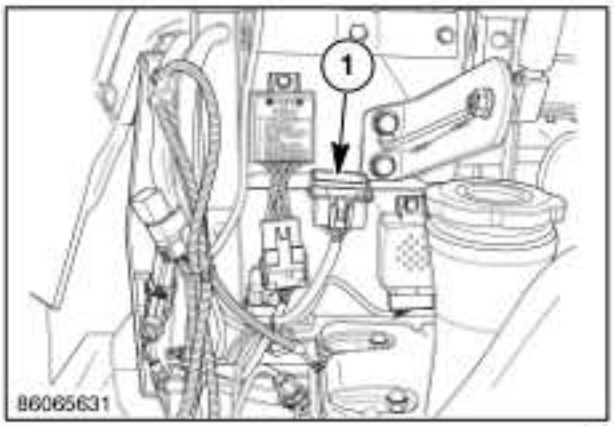
FUSE BLOCK

Fuse Replacement

The fuse box, 1, is located on the engine firewall. To check or change fuses pull off the lid to gain access to the fuses.

Six fuses are provided in one row. See following table for details of the circuits protected by the fuses.

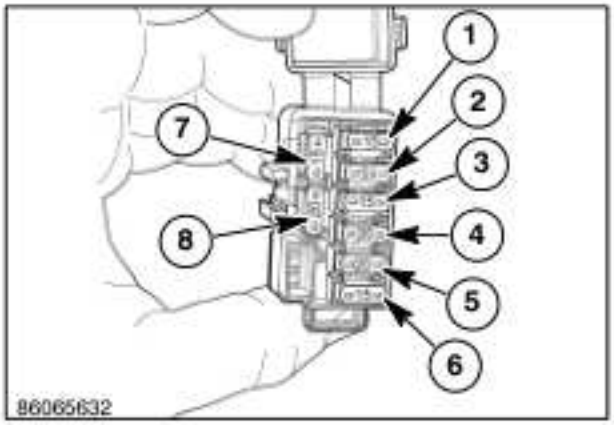
IMPORTANT: *Do not replace a blow fuse with another of a different rating.*



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Fuse Identification

Fuse #	Rating	Circuit
1	15 amp	Instrument panel
2	15 amp	Safety start system
3	15 amp	Horn, Turn signals
4	20 amp	Headlights
5	20 amp	Worklight
6	15 amp	Hazard flasher lights
7	15 amp	Spare fuse
8	20 amp	Spare fuse



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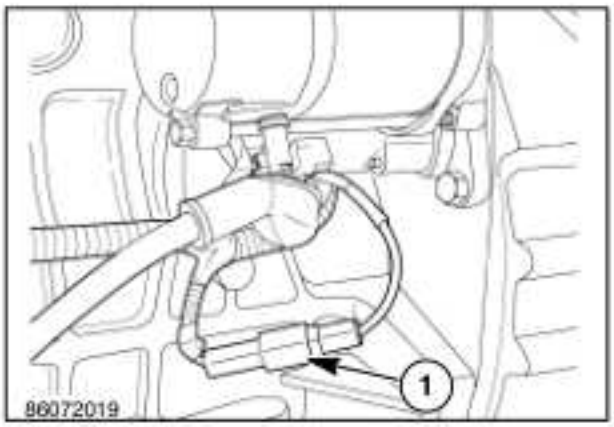
FUSIBLE LINK

A fusible link wire, 1, is used to protect the tractor's entire electrical system. If excessive amperage passes through this wire it will melt down so that it will no longer allow current to pass (similar to the way a fuse works). The fusible link wire, 1, is a red wire that goes from the starter terminal to a connector that links into the main wiring harness.

To replace the fusible link wire:

1. Disconnect the battery.
2. Unplug the connector linking the wire to the main wiring harness.
3. Remove the old fusible link wire from the starter terminal.
4. Replace the old fusible link wire with a new one - first attaching to starter terminal, and then connecting into the main wire harness.

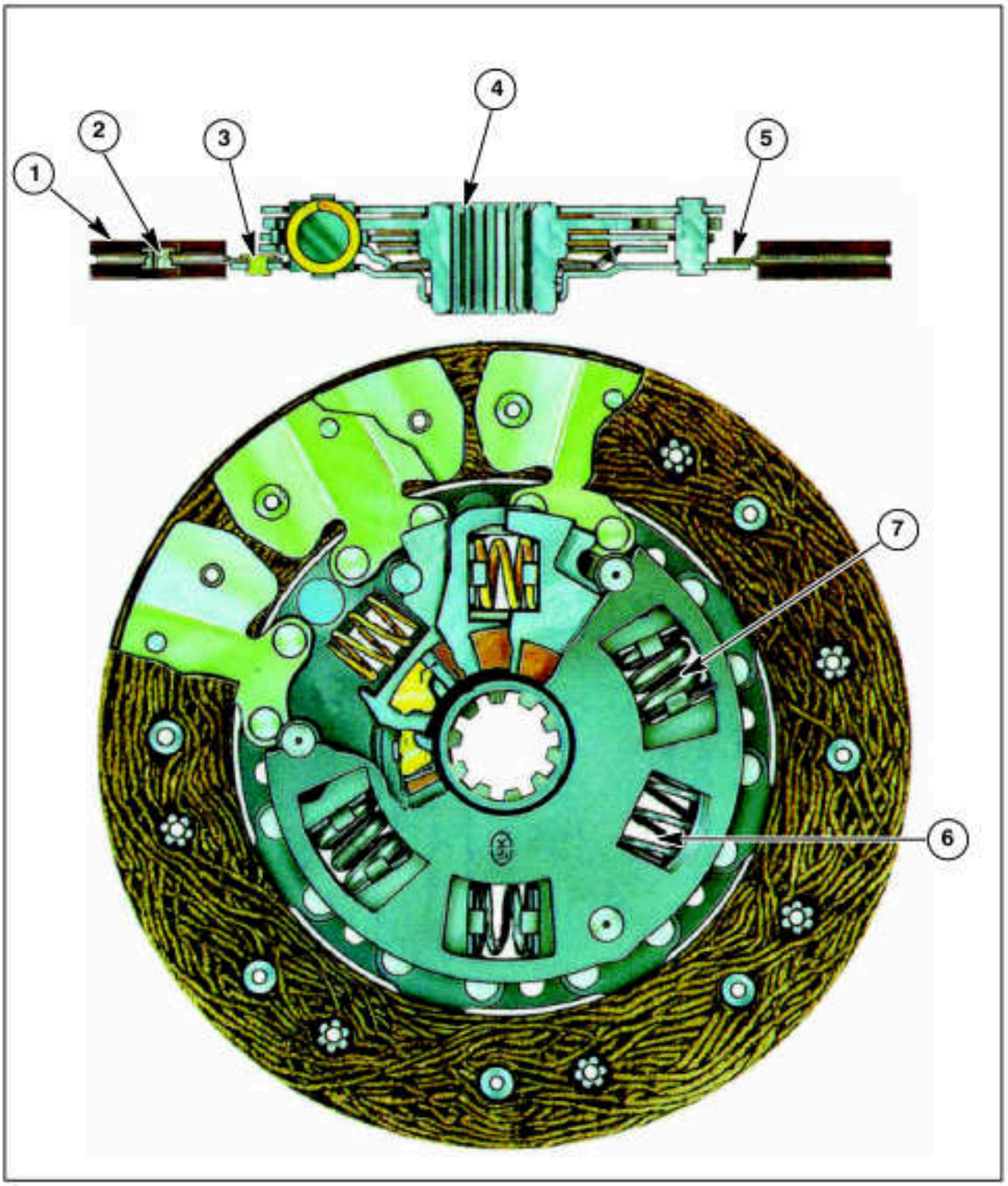
IMPORTANT: *Always replace the fusible link wire with the appropriate fusible link wire for this tractor (part #87316995). Fusible link rating is 20 amps at 20 ℃ (68 ℉).*



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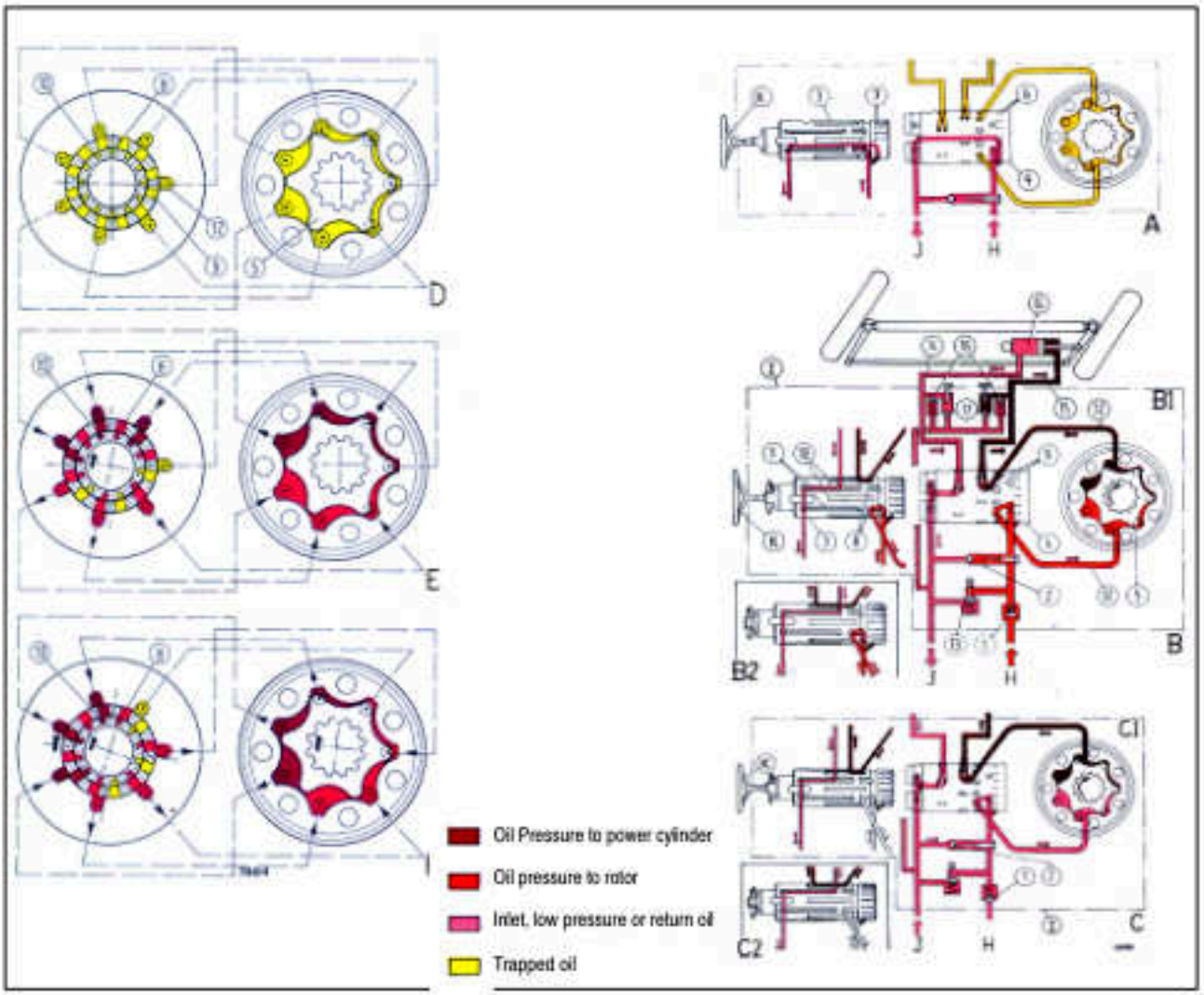
SECTIONAL VIEWS - CLUTCH PLATE



5

1. Clutch facing
2. Facing rivet
3. Segment rivet
4. Hub
5. Segment
6. Idle damper spring
7. Main damper spring

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A. Operation in straight-ahead driving position
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7. Oil Port
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