# General specification

[YCG667001-], [YCG667001-]

**Engine**

| | H8060 | H8080 |
|---|---|---|
| Model source | 6-cyl diesel turbocharged w/ charge air cooler | 6-cyl diesel turbocharged w/ charge air cooler |
| Bore | **104 mm** (**4.1 in**) | **104 mm** (**4.1 in**) |
| Stroke | **132 mm** (**5.2 in**) | **132 mm** (**5.2 in**) |
| Displacement | **6.7 l** (**409 in³**) | **6.7 l** (**409 in³**) |
| Compression | 17.5:1 | 17.5:1 |
| Firing order | 1 5 3 6 2 4 | 1 5 3 6 2 4 |
| Power | **142 kW** (**190 Hp**) | **168 kW** (**225 Hp**) |
| Rated RPM | **2200 RPM** | **2200 RPM** |
| Peak torque | **830 N·m** (**612 lb ft**) @ **1600 RPM** | **961 N·m** (**709 lb ft**) @ **1600 RPM** |
| Idle speed | **900 RPM** | **900 RPM** |
| Max. no load speed | **2250 RPM** | **2250 RPM** |

**Cooling system**

| | H8060 | H8080 |
|---|---|---|
| Radiator cap pressure | **89.6 kPa** (**13 psi**) | **89.6 kPa** (**13 psi**) |
| Fan- Number of blades/diameter | 7 blade / **711 mm** (**28 in**) | 7 blade / **711 mm** (**28 in**) |

**Fuel system**

| | H8060 | H8080 |
|---|---|---|
| Injector pump | Bosch Common Rail CP 3.3 | Bosch Common Rail CP 3.3 |

**Electrical system**

| | H8060 | H8080 |
|---|---|---|
| Voltage | **12 V** | **12 V** |
| Alternator output | **150 A** | **150 A** |
| Batteries - **12 V** | (2), GP31 650 CCA | (2), GP31 650 CCA |
| Starter motor | Iskra **12 V 4.2 kW** (**5.6 Hp**) | Iskra **12 V 4.2 kW** (**5.6 Hp**) |

**Rear axle**

| | H8060 / H8080 |
|---|---|
| Type | Air suspension optional |
| Adjustment range (3 positions) | **2286 mm** - **2667 mm** - **3048 mm** ( **90 in** - **105 in** - **120 in**) |

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# Non-powered rear axle - General specification Non-Suspended Rear Axle

| | |
|---|---|
| **Rear Tires** | |
| Rating | 8 ply rating |
| Type | Grooved implement |
| Size | 37 x 14-16.1 |
| Inflation pressure | **138 kPa** (**20 psi**) |
| **Rear Axle Clearance - Non-Adjustable** | |
| Height | **922 mm** (**36.3 in**) |
| **Extension Widths (spindle to spindle)** | |
| Minimum | **2286 mm** (**90 in**) |
| Plus 12 in (6 in each side) | **2667 mm** (**105 in**) |
| Maximum | **3048 mm** (**120 in**) |
| **Tractor Weight** | **4966 kg** (**10948 lb**) |
| **Tightening Torques** | |
| Extension position bolts | **960 N·m** (**708 lb ft**) |
| Pivot pin bolt | **400 N·m** (**295 lb ft**) |
| Fork shaft bolt | **400 N·m** (**295 lb ft**) |
| Axle shaft bracket to fork | **115 N·m** (**85 lb ft**) |
| Wheel to wheel hub | **115 N·m** (**85 lb ft**) |
| Axle nut | **271 N·m** (**200 lb ft**) |

# Non-powered rear axle - Special tools Non-Suspended Rear Axle

There are no special tools required for rear axle repair.

***NOTE:*** *Use* ***LOCTITE® 277*** *on threads of all bolts and nuts in this section.*

# Non-powered rear axle - General specification

| **Rear Tires** | |
|---|---|
| Rating | 8 ply rating |
| Type | Grooved implement |
| Size | 37 x 14-16.1 |
| Inflation pressure | **138 kPa** (**20 psi**) |

| **Rear Axle Clearance** | |
|---|---|
| Height | **1001 mm** (**39.4 in**) |

| **Channel Widths (spindle to spindle)** | |
|---|---|
| Minimum | **2286 mm** (**90 in**) |
| Plus **12 in** (6 in, each side) | **2666 mm** (**105 in**) |
| Maximum | **3048 mm** (**120 in**) |

| **Tractor Weight** | |
|---|---|
| H8060, H8080 | **5307 kg** (**11,700 lb**) |

| **Axle Spring Features** | |
|---|---|
| Load range (isolator) | **635 - 3545 kg** (**1400 - 7815 lb**) |
| Design height range (isolator) | **203 - 254 mm** (**8 - 10 in**) |
| Useable stroke (actuator) | **274 mm** (**10.8 in**) |
| Assembly weight | **7.6 kg** (**16.8 lb**) |
| Temperature range | **-55 - 70 °C** (**-67 - 158 °F**) |

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# Hydraulic systems - Torque

**PLUG TORQUE REQUIREMENTS**

| Port Size in Manifold | | CNH Recommended Torque - All Plugs |
|---|---|---|
| Dash | Thread | |
| -4 | 7/16-20 | **10.5 - 18 N·m** (**8 - 13 lb ft**) |
| -5 | 1/2-20 | **20 - 24 N·m** (**15 - 17.7 lb ft**) |
| -6 | 9/16-18 | **26 - 35 N·m** (**19.2 - 26 lb ft**) |
| -8 | 3/4-16 | **48 - 53 N·m** (**35.4 - 39 lb ft**) |
| -10 | 7/8-14 | **70.5 - 79 N·m** (**52 - 58 lb ft**) |
| -16 | 1-5/16-12 | **135 - 149 N·m** (**100 - 110 lb ft**) |

# Hydraulic systems - General specification

**ZERO-LEAK PLUG TO SAE J514 ORB PLUG CROSS REFERENCE**

| Port Size in Manifold | | Internal Hex Head Plugs | | External Hex Head Plugs | |
|---|---|---|---|---|---|
| Dash Size | Thread Size | Zero-Leak Gold Plugs | SAE J514 ORB Plugs | Zero-Leak Gold Plugs | SAE J514 ORB Plugs |
| -02 | 5/16-24 | 87037029 | 86632547 or 218-5205 | None | 218-5151 |
| -04 | 7/16-20 | 87037059 | 278548 or 218-5207 | None | 9672438 or 218-5153 |
| -05 | 1/2-20 | 87037030 | 87035062 or 218-5208 | None | 129998 or 218-5154 |
| -06 | 9/16-18 | 87037031 | 9625178 or 218-5209 | 87036745 | 76349 or 218-5155 |
| -08 | 3/4-16 | 87038832 | 86590562 or 218-5210 | 87038769 | 214389 or 218-5156 |
| -10 | 7/8-14 | None | 86590562 or 218-5210 | 87036747 | 86512512 or 218-5157 |
| -12 | 1-1/16-12 | 87038568 | 9841223 or 218-5212 | None | 163410 or 218-5158 |
| -20 | 1-5/8-12 | 87037032 | 86512333 or 218-5215 | None | 86624101 or 218-5161 |

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## HYDROSTATIC TRANSMISSION IDENTIFICATION

Each pump and motor will have a name plate attached to the housing. The name plate will include the model number, model code, and serial number.

### Model code (1)

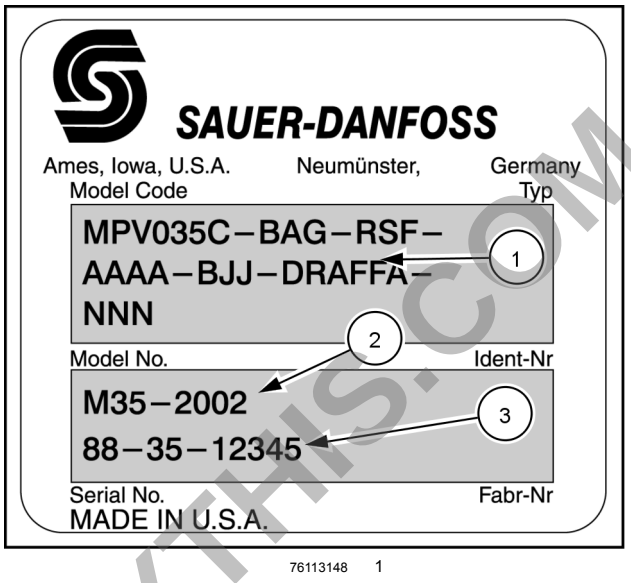
The Sauer-Danfoss model code completely defines the specific unit and must be used when ordering the complete unit for the first time or for ordering parts to service the product.

### Model number (2)

The Sauer-Danfoss model number is used by the factory in manufacturing. On repeat orders, a complete unit can also be ordered by the model number.

### Serial number (3)

The serial number is used to identify the build date and warranty time period and must be referenced when ordering parts.
The first two digits are the year of manufacture; the third and fourth digits denote the calendar week of manufacture. The remaining digits are sequential numbers used to further identify a component.



76113148 1

### Pump ID:

Model number 4 CYL — 4445176

### Motor ID (Fixed displacement):

Model code: MMF 046C AE JBB NNN
Model number: M46 — 3032

### Variable Speed Motor:

Model number 6CYL — 4445173

### Motor ID (Fixed displacement):

Model code: MMV
Model number: M46 — 4040

# Hydrostatic transmission - Torque

### Torque Chart

| | |
|---|---|
| High-pressure relief valve | **54 N·m** (**40 lb ft**) |
| Charge pump relief valve | **94 N·m** (**70 lb ft**) |
| Transmission to flywheel housing | **113 N·m** (**83 lb ft**) |
| Front to rear center section | **47 - 61 N·m** (**35 - 45 lb ft**) |
| Center sections to hydro pump | **71 N·m** (**52 lb ft**) |
| Hydro pump trunnion covers | **27 N·m** (**20 lb ft**) |
| Control arm to pintle shaft | **25 N·m** (**18 lb ft**) |
| Control arm to worm | **97 N·m** (**72 lb ft**) |


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## Dimensions

### Length

| | H8060 / H8080 |
|---|---|
| With lift arms | **5760 mm (226.8 in)** |
| Without lift arms | **5213 mm (205 in)** |
| Wheel base | **3494 mm (137.6 in)** |

### Height

| | H8060 / H8080 |
|---|---|
| Option A | **3378 mm (133 in)** |
| Option B | **3387 mm (133.4 in)** |
| Option C | **3388 mm (133.4 in)** |
| Option D | **3421 mm (134.7 in)** |
| Option E | **3388 mm (133.4 in)** |
| Option F | **3396 mm (133.7 in)** |
| Option G | **3411 mm (134.3 in)** |

### Rear axle clearance

| | H8060 / H8080 |
|---|---|
| Low | **908 mm (35.7 in)** |
| High | **986 mm (38.8 in)** |

### Width

| | H8060 / H8080 |
|---|---|
| Option A | **3748 mm (147.6 in)** |
| Option B | **3740 mm (147.3 in)** |
| Option C | **3755 mm (147.9 in)** |
| Option D | **3882 mm (152.8 in)** |
| Option E | **3641 mm (143.3 in)** |
| Option F | **3891 mm (153.2 in)** |
| Option G | **3965 mm (156.1 in)** |
| **Front wheel hubs** | **3575 mm (140.7 in)** |

### Weight

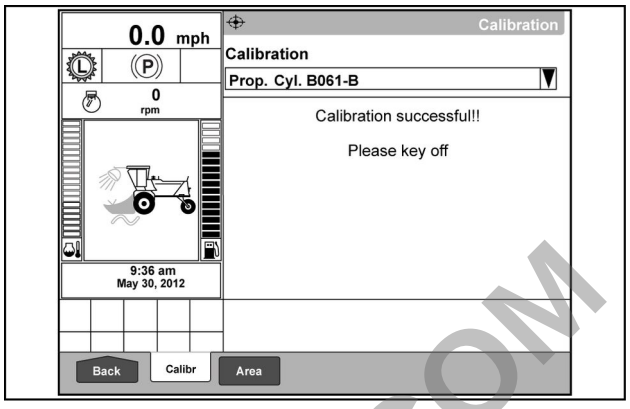
| | H8060 / H8080 |
|---|---|
| With option D tires and full fuel tank | **5212 kg (11490 lb)** |
| Suspended rear axle | **+95 kg (210 lb)** |
| Draper ready | **+69 kg (158 lb)** |
| Fuel (Full tank) | **389 kg (858 lb)** |

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When the calibration is complete, the screen will read “Calibration successful”.

4. Please key off.




NHIL12WR00145AA 4

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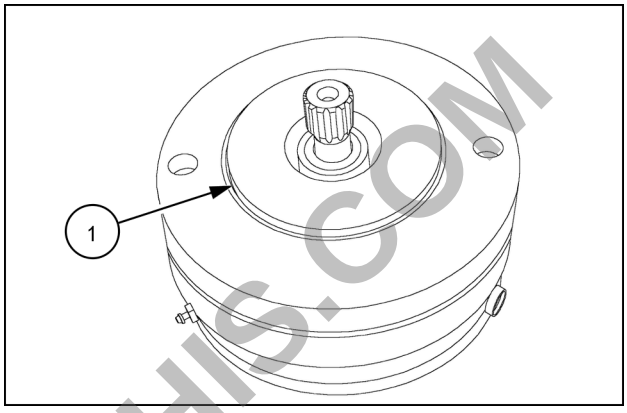
# Final drives - Install Front Mechanical Drive

[YCG667001-], [YCG667001-]

**Prior operation:**
**Final drives - Remove Front Mechanical Drive (25.310)**

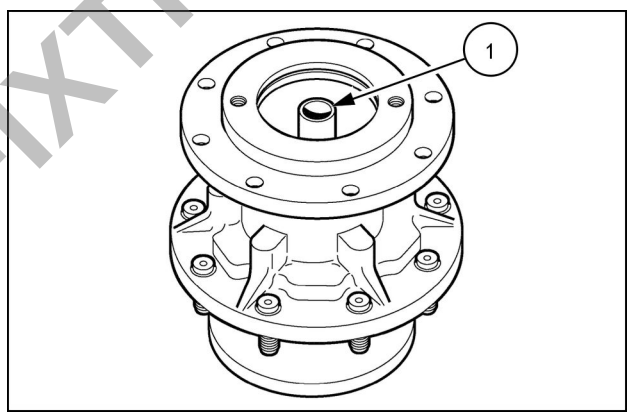
1. Install the O-ring, **(1)**, on the brake unit. Apply a light coat of grease to the O-ring and splines of the drive shaft.

***NOTE:*** *When installing the O-ring make certain not to roll it into place. This action of rolling into place will cause the seal to become damaged, therefore causing a leak.*




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2. Apply a light coat of grease to the planetary final drive shaft.
3. Install splined coupler, **(1)**.



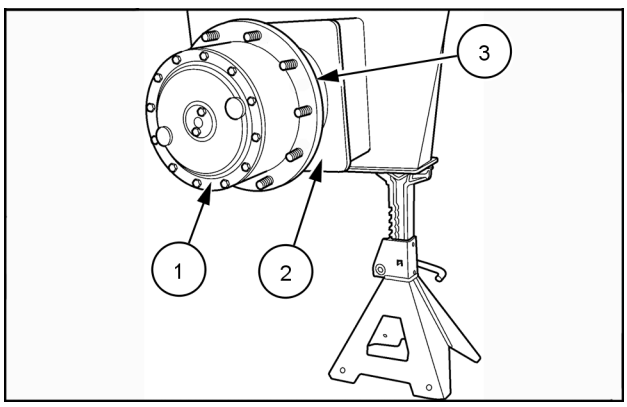

50045421N 2

4. Use appropriate support when installing mechanical drive, **(1)**. Unit is very heavy.
5. Install the final drive, **(1)**, onto the main frame, **(2)**.

**⚠ CAUTION**

**Heavy object!**
**The component is heavy. Use care not to drop the component when installing, removing, or handling.**
**Failure to comply could result in minor or moderate injury.**

**C0095A**




NHPH12WR00599AA 3

6. Install and tighten the eight 5/8" x 1-3/4" cap screws and flat washers, **(3)**. Torque the fasteners to **224 N·m** (**165 lb ft**).

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