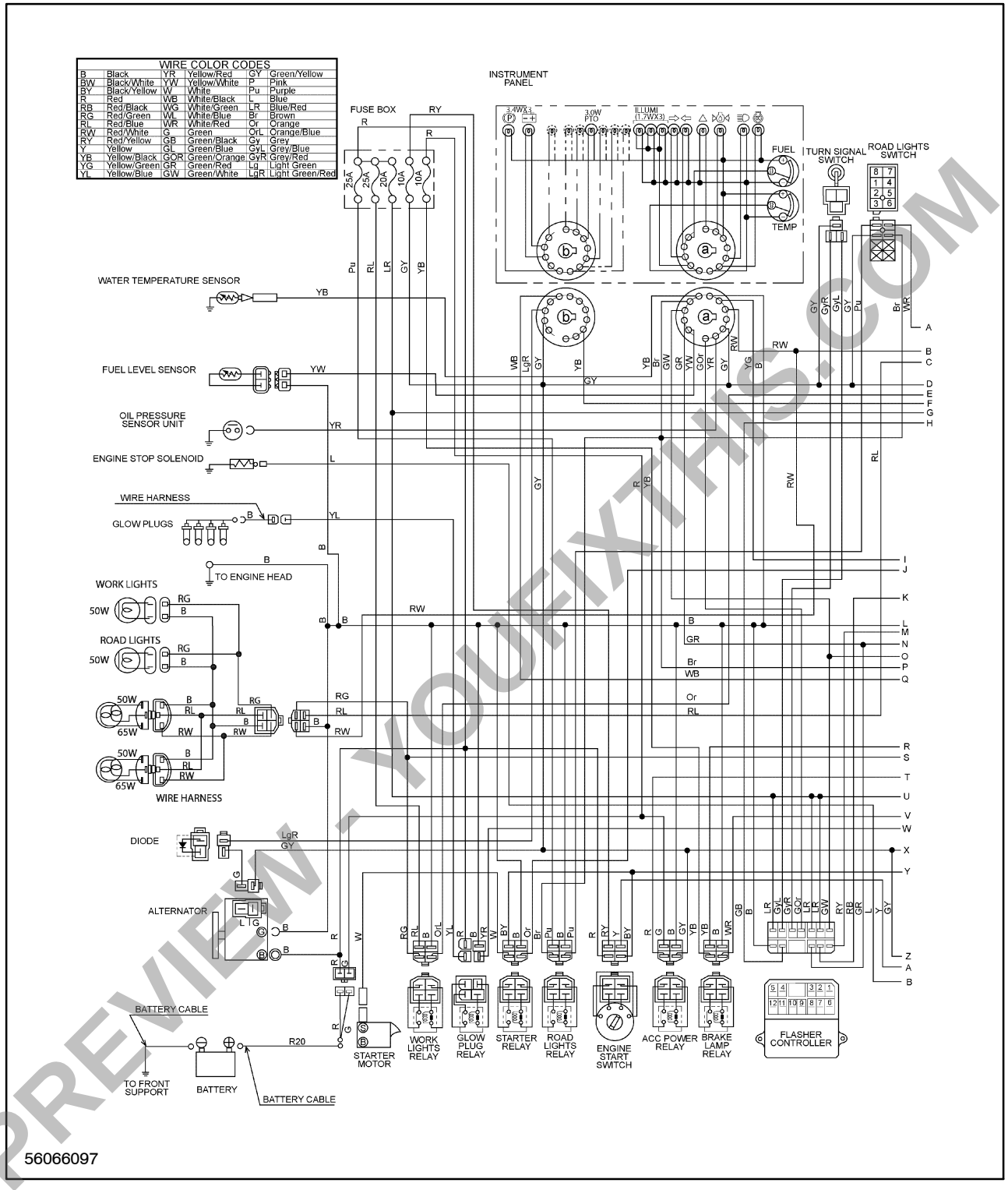



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# MINIMUM HARDWARE TIGHTENING TORQUES

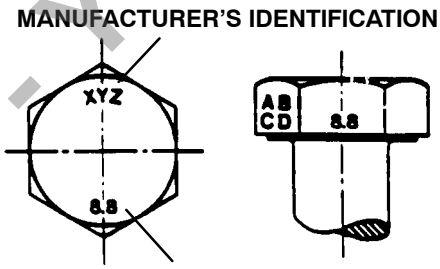
## IN NEWTON-METERS (FOOT POUNDS) FOR NORMAL ASSEMBLY APPLICATIONS

## METRIC NON-FLANGED HARDWARE AND LOCKNUTS

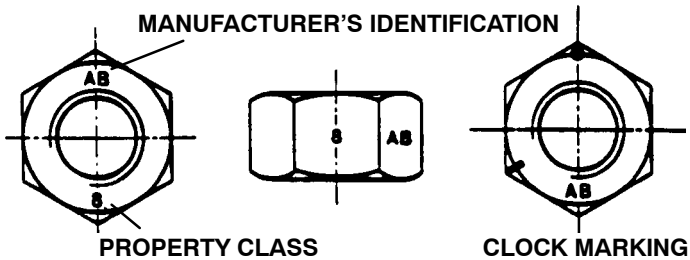
| NOMINAL SIZE | CLASS 5.8 | | CLASS 8.8 | | CLASS 10.9 | | LOCKNUT CL.8 W/CL8.8 BOLT |
|---|---|---|---|---|---|---|---|
| | UNPLATED | PLATED W/ZnCr | UNPLATED | PLATED W/ZnCr | UNPLATED | PLATED W/ZnCr | |
| M4 | 1.7 (15)* | 2.2 (19)* | 2.6 (23)* | 3.4 (30)* | 3.7 (33)* | 4.8 (42)* | 2.3 (20)* |
| M6 | 5.8 (51)* | 7.6 (67)* | 8.9 (79)* | 12 (102)* | 13 (115)* | 17 (150)* | 7.8 (69)* |
| M8 | 14 (124)* | 18 (159)* | 22 (195)* | 28 (248)* | 31 (274)* | 40 (354)* | 19 (169)* |
| M10 | 28 (21) | 36 (27) | 43 (32) | 56 (41) | 61 (45) | 79 (58) | 38 (28) |
| M12 | 49 (36) | 63 (46) | 75 (55) | 97 (72) | 107 (79) | 138 (102) | 66 (49) |
| M16 | 121 (89) | 158 (117) | 186 (137) | 240 (177) | 266 (196) | 344 (254) | 164 (121) |
| M20 | 237 (175) | 307 (226) | 375 (277) | 485 (358) | 519 (383) | 671 (495) | 330 (243) |
| M24 | 411 (303) | 531 (392) | 648 (478) | 839 (619) | 897 (662) | 1160 (855) | 572 (422) |

**NOTE: Torque values shown with * are inch pounds.**

### IDENTIFICATION
### HEX CAP SCREW AND CARRIAGE BOLTS
### CLASSES 5.6 AND UP




### HEX NUTS AND LOCKNUTS
### CLASSES 05 AND UP




86529681 REV F 5.1

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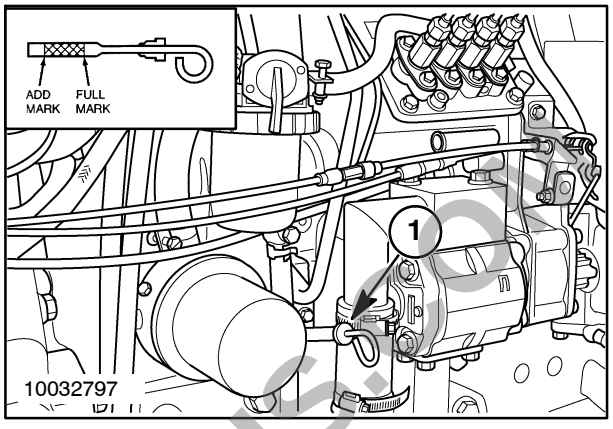
## FUEL AND LUBRICANT SERVICE PROCEDURES

### ENGINE

#### Checking the Engine Oil Level

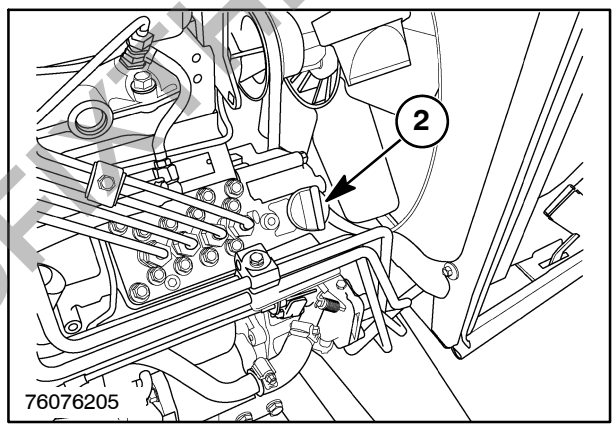
***NOTE:*** *Check the engine oil level daily or after every 10 hours of operation.*

1. After the engine has been stopped for a period of time and with the tractor standing level, check the oil level using the dipstick, 1.




3

2. If the oil level is low, remove the filler cap, 2, and add oil through the filler hole. Add enough oil so that the level registers between the two marks on the dipstick. Do not overfill.



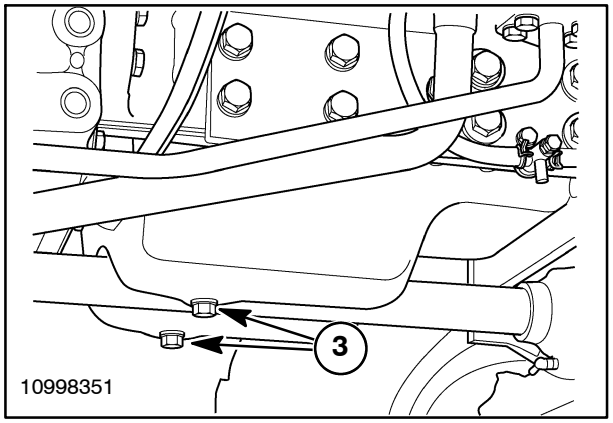

4

#### Changing the Engine Oil

***NOTE:*** *Change the engine oil and filter after the first 50 hours of operation, then every 200 hours thereafter. If the tractor is operated for extended periods of time at maximum rated power and speed, or under other types of continuous, severe operating conditions, the engine oil and filter should be changed at 100 hour intervals following the initial oil change.*

To change the engine oil:

1. Place a suitable container beneath the drain openings to catch the used oil. With the tractor engine off but at normal operating temperature, remove the drain plugs, 3. Reinstall the plugs after all of the oil has been drained.




5

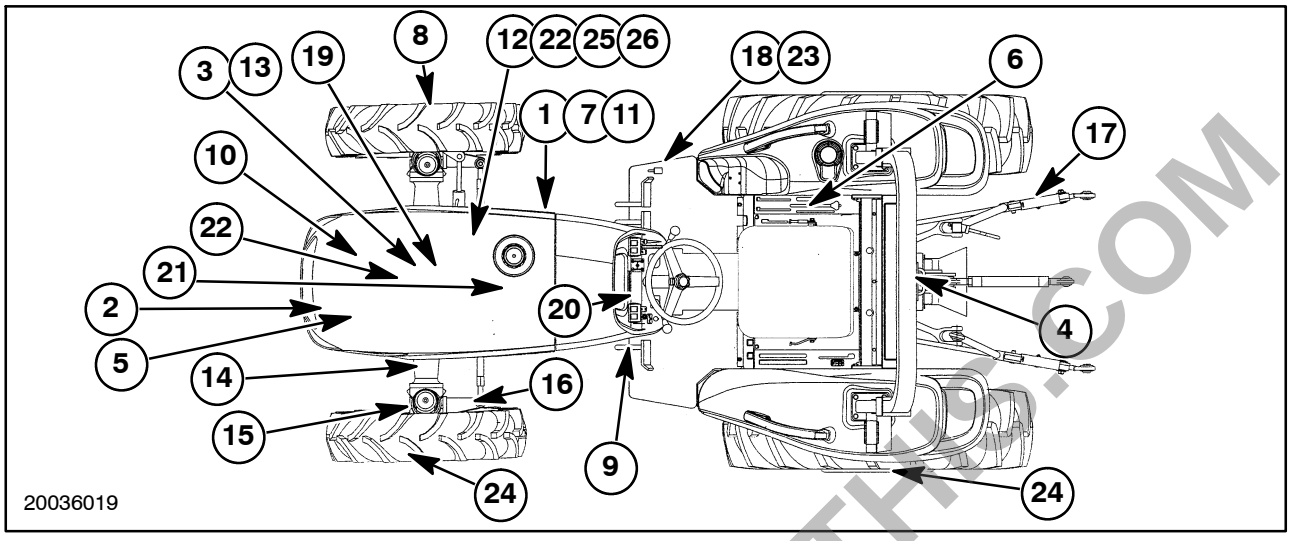
***NOTE:*** *Remove both drain plugs to properly drain all oil.*

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## LUBRICATION AND MAINTENANCE CHART
## NEW HOLLAND BOOMER 4055/4060 - FRONT-WHEEL DRIVE




1

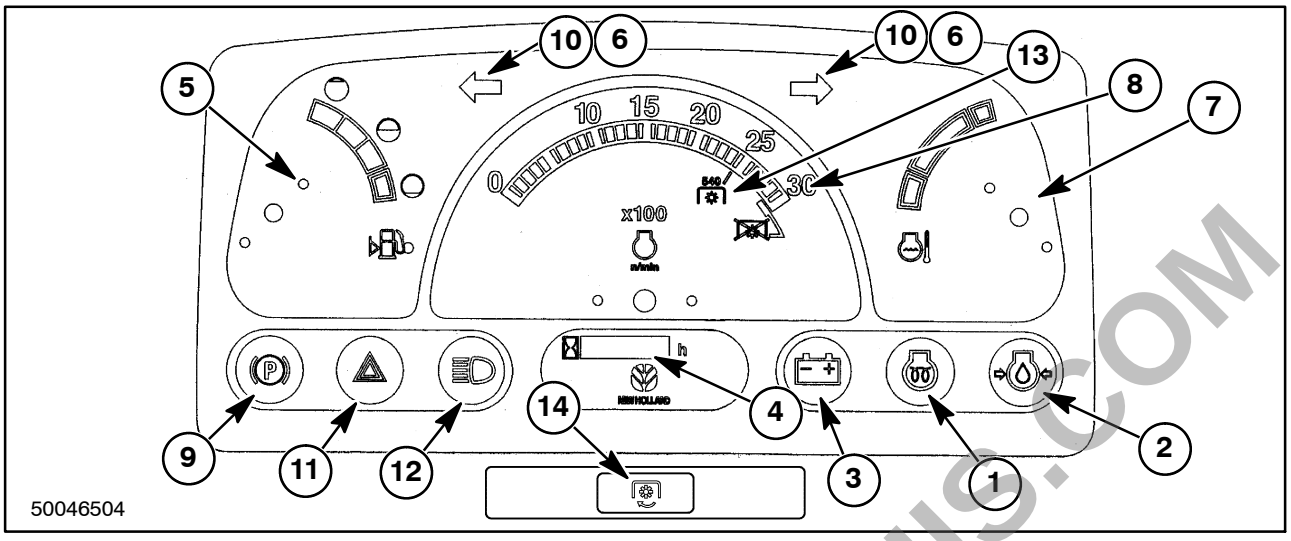
| NO. | LUBRICATION & MAINTENANCE ITEMS | CHECK | CLEAN | LUBE | CHANGE | ADJUST | SERVICE INTERVALS |
|---|---|---|---|---|---|---|---|
| 1 | Engine Oil Level | X | | | | | Every |
| 2 | Air Cleaner | X | | | | | 10 |
| 3 | Radiator Coolant | X | | | | | Hours or |
| 4 | Transmission Oil Level | X | | | | | Daily |
| 5 | Radiator Prescreen | | X | | | | |
| 6 | Hydraulic Filter | | | | X | | First |
| 1, 7 | Engine Oil & Filter | | | | X | | 50 |
| 8 | Tire Pressure | X | | | X | | Hours |
| 11 | Fuel Filter | | | | | | |
| 26 | Wheel Bolt Torque | X | | | | | |
| — | All Fluid Levels | X | | | | | |
| 29 | Brake Pedal Free Play | X | | | | | |
| 8 | Tires | X | | | | | Every |
| 9 | Clutch/Inching Pedal | X | | X | | X | 50 |
| 10 | Battery | X | | | | | Hours |
| 12 | Power Steering Oil Level | X | | | | | |
| 13 | Fan Belt | X | | | | | |
| 14 | Front Axle Oil Level | X | | | | | |
| 15 | Final Reduction Gear Cases Oil Level | X | | | | | |
| 29 | Brake Pedal Free Play | X | | | | | |
| | **Lubrication Fittings**: | | | X | | | |
| 16 | Steering Linkage | | | X | | | |
| 17 | 3-Point Linkage | | | X | | | |
| 18 | Brake Pedal | | | X | | | |
| 19 | Power Steering Cylinder | | | X | | | |
| 20 | Pedal Shaft | | | X | | | |
| 21 | Drive Cover Shaft | | | X | | | |
| 22 | Pivot Shaft | | | | | | |

| NO. | LUBRICATION & MAINTENANCE ITEMS | CHECK | CLEAN | LUBE | CHANGE | ADJUST | SERVICE INTERVALS |
|---|---|---|---|---|---|---|---|
| 2 | Air Cleaner Element | | X | | | | Every |
| 11 | Fuel Filter | | X | | | | 100 Hours |
| 1, 7 | Engine Oil & Filter | | | | X | | Every |
| 23 | Brake Pedal Free Play | | | | | X | 200 |
| 13 | Fan Belt | | | | | X | Hours |
| 24 | Wheel Bolt Torque | X | | | | | |
| 4 | Transmission Oil | | | | X | | Every |
| 6 | Hydraulic Filter | | | | X | | 300 |
| 11 | Fuel Filter Element | | | | X | | Hours |
| 14 | Front Axle Oil | | | | X | | |
| 15 | Final Reduction Gear Cases Oil | | | | X | | |
| 12 | Power Steering Oil & Filter | | | | X | | Every 600 Hours |
| 25 | Fuel Injector | X | | | | X | *Refer to |
| 26 | Valve Clearance | X | | | | X | Repair Manual |
| 2 | Air Cleaner Element | | | | X | | Seasonal |
| 3 | Radiator Coolant | | | | X | | |
| 2 | Safety Air Filter Element | | | | X | | Every 3rd Primary Element Change or Every **1000** Hours, Whichever Comes First |

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## INSTRUMENT PANEL

1. **Cold Starting Indicator Light** - Illuminates when the key switch is turned to the “ACC/RUN” position. It remains lit for approximately four seconds when the key is in position, during which time the glow plugs are heating the precombustion chambers of cylinder head.
2. **Engine Oil Pressure Warning Light** - Illuminates with the key switch in the “ACC/RUN” position and remains lit for a short period of time after the engine is started. The light indicates oil pressure only and goes out when sufficient oil pressure is present at the oil sender. If the bulb becomes lit during operation, stop the tractor engine immediately and investigate the cause.
3. **Battery Charge Warning Light** - Illuminates when the key switch is in the “ACC/RUN” position and goes out when the engine is started. If this bulb becomes lit during operation, it indicates that the charging system is not operating normally. As the battery can become fully discharged under these conditions, the problem should be investigated as soon as possible.
4. **Proof Meter** - Records the hours and portions of hours that your tractor has been operated based on an average engine speed of 1833 RPM. Engine speeds below 1833 RPM accumulate engine hours at a slower rate than clock hours. Engine speeds above 1833 RPM accumulate engine hours faster than clock hours. Use the proof meter as a guide to determine hourly service and maintenance intervals.
5. **Fuel Gauge** - Indicates the amount of diesel fuel remaining in the tank. The gauge is activated when the key switch is in the “ACC/RUN” position. It will register empty with the key switch in the “STOP” position.
6. **Flasher Warning Hazard Lights** - Operate when the flasher switch is turned on, regardless of the key switch position. Use the flasher warning lights and the SMV emblem when traveling on public roads, day or night.
7. **Temperature Gauge** - Indicates coolant temperature. It is activated when the key switch is turned to the “ACC/RUN” position. The gauge will register cold with the key switch in the “STOP” position. If the needle registers in the green range of the gauge, this indicates a normal operating temperature. If the needle moves to the red portion of the gauge, this indicates an overheated condition. Stop the tractor engine immediately and investigate the cause.
8. **Tachometer** - Registers engine RPM (Revolutions Per Minute). The gauge is marked in increments of 100 and will return to zero when the engine is not running.
9. **Parking Brake Light** - Illuminates if the parking brake is engaged when the key switch is turned from the “OFF” position.
10. **Flasher Turn Lights** - When the turn signal switch is moved to the right for right turns, the right arrow will flash. When moved to the left for left turns, the left arrow will flash. The key switch has to be in the “ACC/RUN” or “START” positions.

***NOTE:*** *The arrow opposite the direction will illuminate constant, not flashing.*

11. **Flasher Warning Hazard Lights Indicator** - SMV symbol flashes in unison with directional arrows, 6, when the flasher switch is turned on, regardless of key position.
12. **High Beam Road Light Indicator** - The light symbol will illuminate “Blue” when the road light switch is placed in the forward (High Beam) position.
13. **PTO Speed Indicator** - Determined by the position of the needle on the tachometer. The tachometer is marked to indicate 540 PTO RPM. If the needle registers above the 540 RPM mark, this indicates a dangerous over speed condition, and the engine RPM should be reduced immediately.
14. **PTO Indicator Light** - Illuminates with the key switch in the “ON” position and the PTO clutch lever engaged. This light indicates that the PTO clutch is engaged.

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# SECTION 2
# OPERATION

## CONTROLS AND INSTRUMENTS

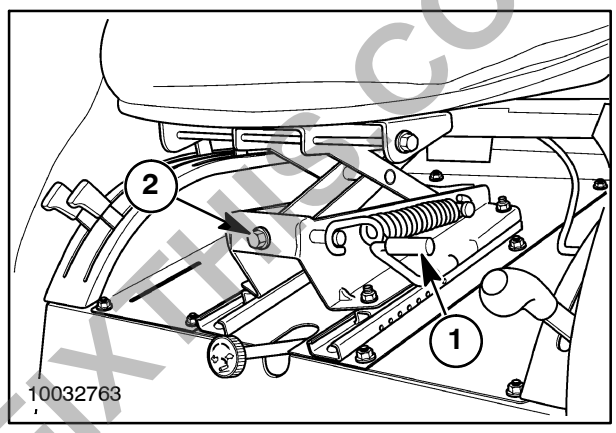
### SEAT, SEAT BELT, AND ROLLOVER PROTECTIVE STRUCTURE (ROPS)

#### Adjusting the Tractor Seat

Your tractor is equipped with an adjustable suspension seat.

To move the seat fore and aft, raise the release lever, 1. Because the seat is on an inclined base, more effort is required to move the seat rearward than forward.

To adjust the flotation of the seat, turn the adjustment bolt, 2, clockwise for a firmer ride or counter-clockwise for a softer ride.




1

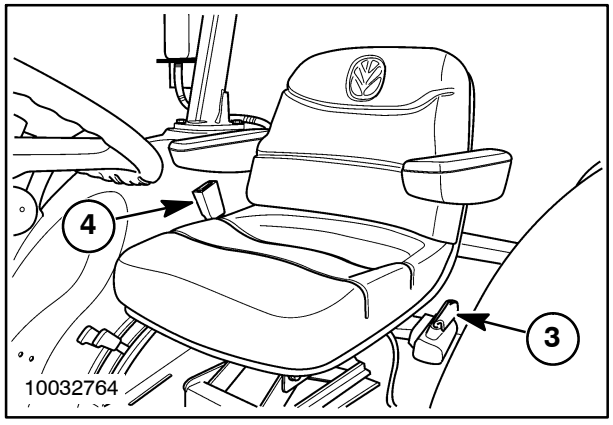
***NOTE:*** *Care of vinyl, plastic, and rubber parts to MAXIMIZE life:*

*For cleaning of vinyl, plastic, and rubber parts, use "ONLY" a mild car washing soap and water, as described below:*

*"First remove any loose dirt by rinsing with clean water. Mix a warm, mild liquid CAR WASHING soap solution (1 part soap and 99 parts water). Then using a sponge or soft cloth, apply the soap solution to the part. Allow the solution to soak for a few minutes to loosen the dirt. Finally, rinse the part with clean water to remove the dirt, and any solution residue. If all the dirt does not come off, repeat the procedure."*

#### Adjusting the Seat Belt

The male end of the seat belt, 3, is part of a retraction mechanism, located on the left side of the seat. To extend length of seat belt, pull out on male end until correct length is obtained. To latch belt, insert male end, 3, into belt latch, 4, located on right side of seat. Be sure belt is securely latched and belt length is adjusted correctly for size of operator.




2

Use soap and water to clean the seat belt if necessary. Do not use carbon tetrachloride, naphtha, etc., as these substances will weaken the webbing. Additionally, do not bleach or re-dye the webbing, as these products will also weaken the webbing.

Replace the seat belt if it becomes damaged or worn.

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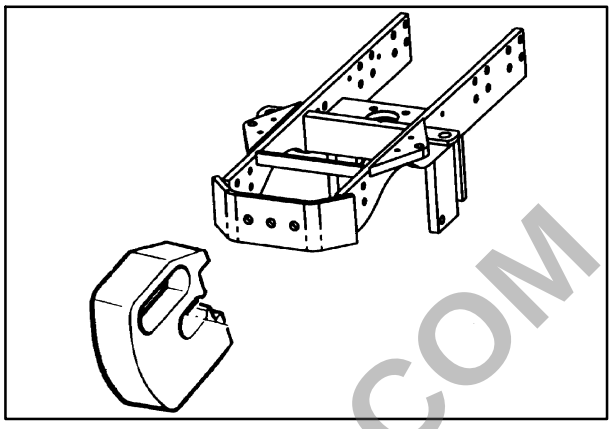


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## CAST IRON WEIGHTS (OPTIONAL)

Cast iron weights are available as accessories from your New Holland Dealer. Weights can be mounted on the front end of the tractor and on the rearmost wheels.

27 kg (60 lb) - #710215016
45 kg (100 lb) - #718215036



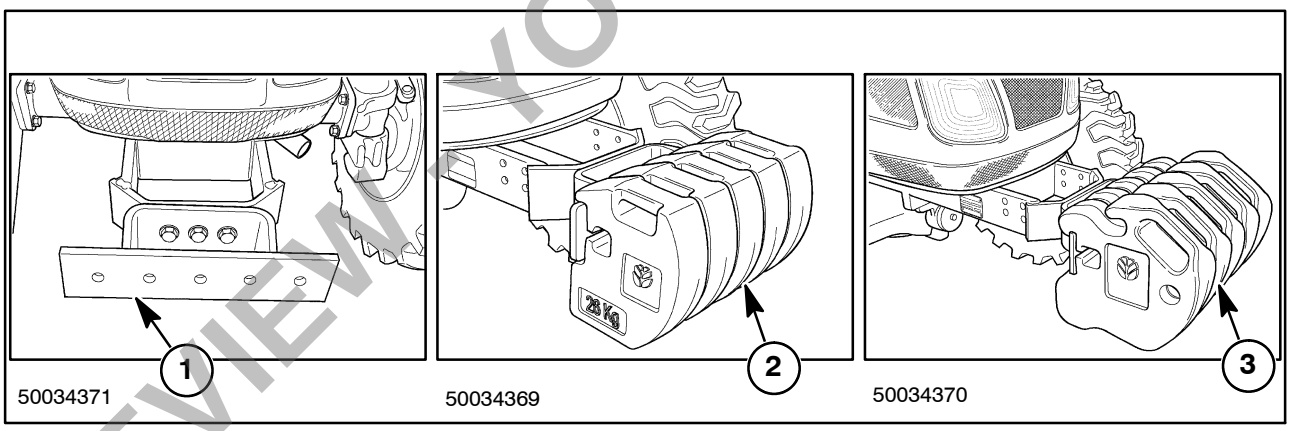
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### Front Frame Mounted Weights

| Tire Type | Weight(s) |
|---|---|
| Agricultural, Turf, & Industrial | Maximum of (2) weights per tractor @ 27 kg (60 lb) each- 54 kg (120 lb) total<br><br>Optional: (2) weights @ 45 kg (100 lb) each - 90 kg (200 lb) total |

### Optional Front Weight Extension Bracket

If additional front weights are needed for counterbalancing a rear mounted implement, an optional front weight extension bracket, 1, (#718233006) can be installed to the front of the tractor. With the extension bracket installed, a maximum of (5) 27kg (60 lb), 2, or (5) 45 kg (100 lb), 3, weights can be installed.




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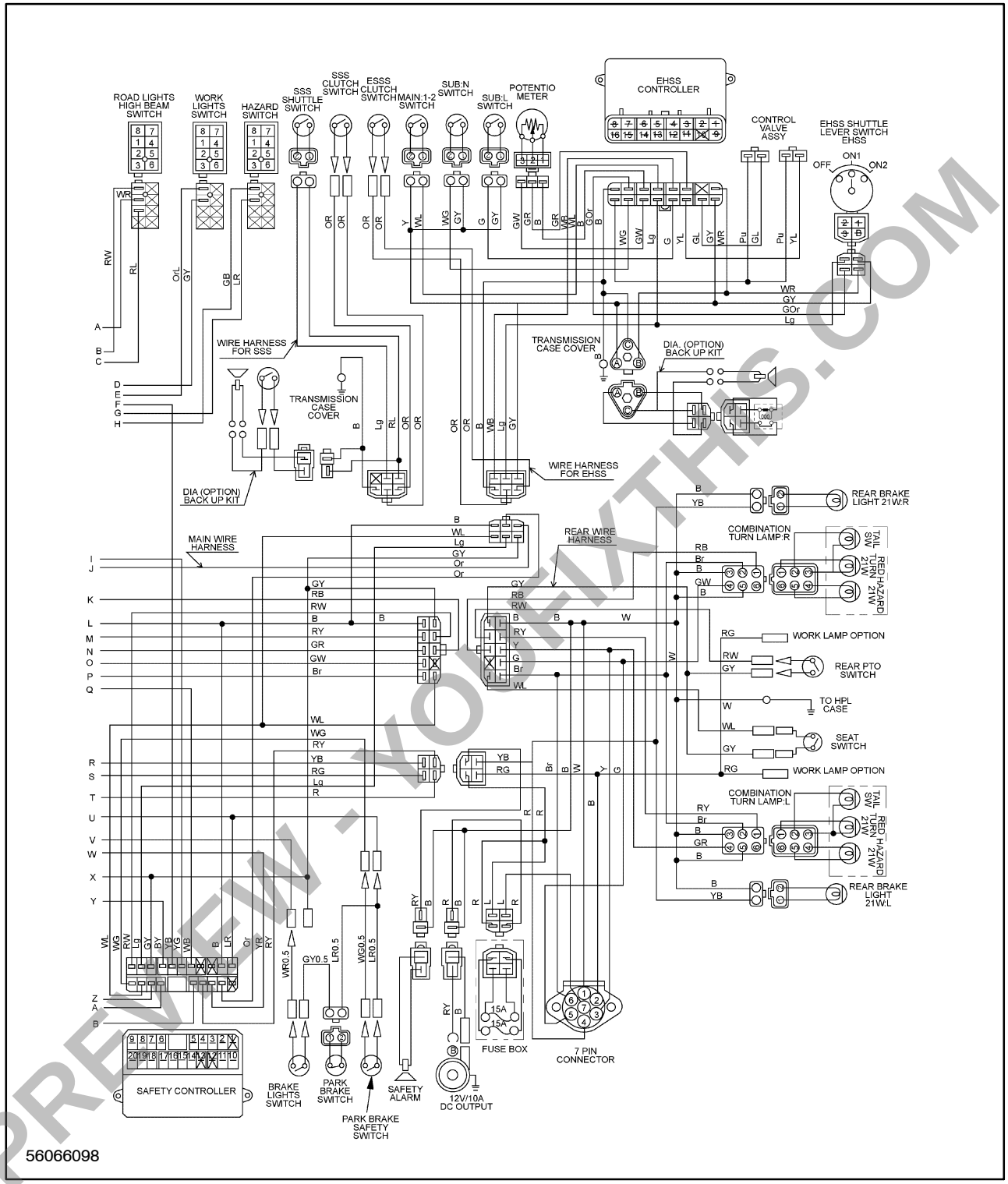
# SECTION 4
# SPECIFICATIONS

| | Model Boomer 4055 | Model Boomer 4060 |
|---|---|---|
| **ENGINE** | | |
| Type/Model | Diesel/N844L-T | Diesel/844L-T |
| Engine Gross Horsepower | 41.0 kw (55 HP) | 44.7 kw (60 HP) |
| Cylinders | 4 | 4 |
| Bore | 84 mm (3.31 in) | 84 mm (3.31 in) |
| Stroke | 100 mm (3.94 in) | 100 mm (3.94 in) |
| Displacement | 2.2 L (135.2 cu-in) | 2.2 L (135.2 cu-in) |
| Compression Ratio | 22.4:1 | 22.4:1 |
| Firing Order | 1-3-4-2 | 1-3-4-2 |
| Low Idle Speed | 1000 RPM (± 50) | 1000 RPM (± 50) |
| Maximum Speed: | | |
| High Idle | 2900 RPM (± 50) | 3000 RPM (± 50) |
| Rated | 2700 RPM (± 50) | 2800 RPM (± 50) |
| **CAPACITIES** | | |
| Fuel Tank | 51.0 liters/ 13.5 U.S. gals | 51.0 liters/ 13.5 U.S. gals |
| Cooling System | 5.5 liters/ 5.8 U.S. qts | 5.5 liters/ 5.8 U.S. qts |
| Engine Crankcase: | | |
| With Filter | 7.0 liters/ 7.4 U.S. qts | 7.0 liters/ 7.4 U.S. qts |
| Rear Axle & Transmission (Includes Hydraulics) | EHSS 46.0 liters/ 12.1 U.S. gals | EHSS 46.0 liters/ 12.1 U.S. gals |
| | SSS 38.0 liters/ 10 gals | SSS 38.0 liters/ 10 gals |
| Power Steering | 1.8 liters/ 1.9 U.S. qts | 1.8 liters/ 1.9 U.S. qts |
| Front Axle Final Reduction /Differential Gear Case | 5.8 liters/ 6.1 U.S. qts | 5.8 liters/ 6.1 U.S. qts |

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# MINIMUM HARDWARE TIGHTENING TORQUES

## IN NEWTON-METERS (FOOT POUNDS) FOR NORMAL ASSEMBLY APPLICATIONS

## INCH NON-FLANGED HARDWARE AND LOCKNUTS

| NOMINAL SIZE | SAE GRADE 2 | | SAE GRADE 5 | | SAE GRADE 8 | | LOCKNUTS | | NOMINAL SIZE |
|---|---|---|---|---|---|---|---|---|---|
| | UNPLATED or PLATED SILVER | PLATED W/ZnCr GOLD | UNPLATED or PLATED SILVER | PLATED W/ZnCr GOLD | UNPLATED or PLATED SILVER | PLATED W/ZnCr GOLD | GR.B w/GR5 BOLT | GR.C w/GR8 BOLT | |
| 1/4 | 6.2 (55)* | 8.1 (72)* | 9.7 (86)* | 13 (112)* | 14 (121)* | 18 (157)* | 8.5 (75)* | 12.2 (109)* | 1/4 |
| 5/16 | 13 (115)* | 17 (149)* | 20 (178)* | 26 (229)* | 28 (250)* | 37 (324)* | 17.5 (155)* | 25 (220)* | 5/16 |
| 3/8 | 23 (17) | 30 (22) | 35 (26) | 46 (34) | 50 (37) | 65 (48) | 31 (23) | 44 (33) | 3/8 |
| 7/16 | 37 (27) | 47 (35) | 57 (42) | 73 (54) | 80 (59) | 104 (77) | 50 (37) | 71 (53) | 7/16 |
| 1/2 | 57 (42) | 73 (54) | 87 (64) | 113 (83) | 123 (91) | 159 (117) | 76 (56) | 108 (80) | 1/2 |
| 9/16 | 81 (60) | 104 (77) | 125 (92) | 163 (120) | 176 (130) | 229 (169) | 111 (82) | 156 (115) | 9/16 |
| 5/8 | 112 (83) | 145 (107) | 174 (128) | 224 (165) | 244 (180) | 316 (233) | 153 (113) | 215 (159) | 5/8 |
| 3/4 | 198 (146) | 256 (189) | 306 (226) | 397 (293) | 432 (319) | 560 (413) | 271 (200) | 383 (282) | 3/4 |
| 7/8 | 193 (142) | 248 (183) | 495 (365) | 641 (473) | 698 (515) | 904 (667) | 437 (323) | 617 (455) | 7/8 |
| 1 | 289 (213) | 373 (275) | 742 (547) | 960 (708) | 1048 (773) | 1356 (1000) | 654 (483) | 924 (681) | 1 |

**NOTE: Torque values shown with * are inch pounds.**

### IDENTIFICATION
### CAP SCREWS AND CARRIAGE BOLTS



SAE GRADE 2 | SAE GRADE 5 | SAE GRADE 8



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

### LOCKNUTS



GRADE IDENTIFICATION
GRADE A NO NOTCHES
GRADE B ONE CIRCUMFERENTIAL NOTCH
GRADE C TWO CIRCUMFERENTIAL NOTCHES



GRADE IDENTIFICATION
GRADE A NO MARKS
GRADE B THREE MARKS
GRADE C SIX MARKS
MARKS NEED NOT BE LOCATED AT CORNERS



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

GRADE IDENTIFICATION

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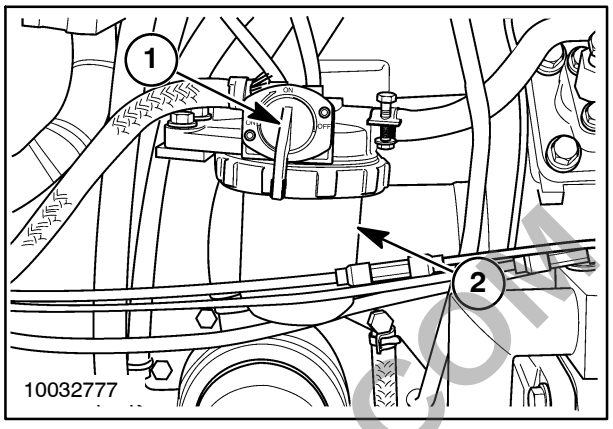
## FUEL FILTER

### Draining the Fuel Filter

***NOTE:*** *The fuel filter should be drained after every 100 hours of operation.*

1. Make sure there is adequate fuel in the fuel tank and close the fuel shutoff valve, 1 (the handle should be pointing to the “OFF” position). Remove the fuel sediment bowl, 2.
2. Open the fuel shutoff valve until all water has been removed and only fuel flows from the filter base.
3. Install the fuel sediment bowl and bleed the system as outlined in “Bleeding the Fuel System.”

***NOTE:*** *Valve is shown in open position.*

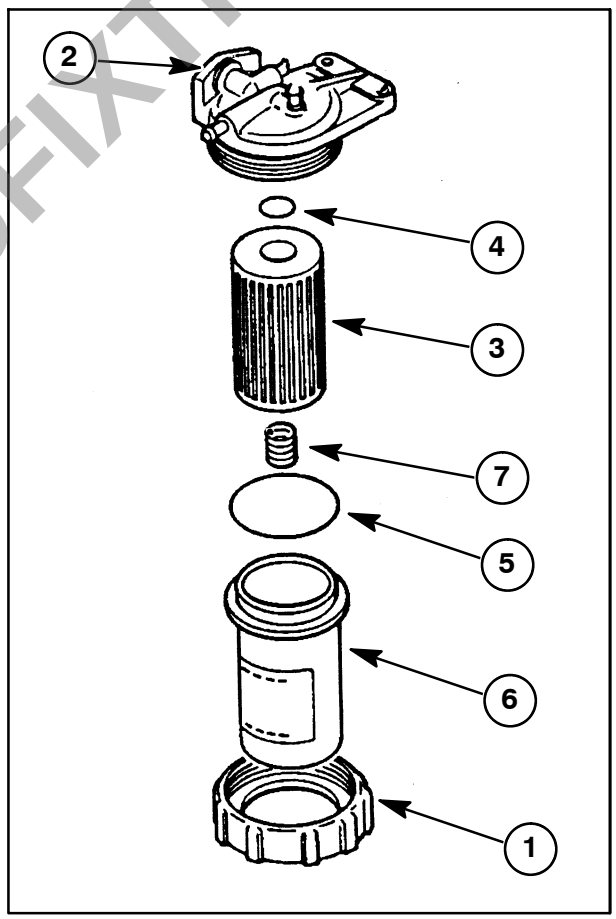



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### Changing the Fuel Filter

***NOTE:*** *Change the diesel fuel filter after the first 50 hours of operation, then following every 300 operating hours thereafter.*

1. Close the shutoff valve (the handle should be pointing to the “OFF” position).
2. Remove the sediment bowl, 6, by rotating the retaining nut, 1.
3. Open the fuel shutoff valve, 2, to drain any remaining water from the tank.
4. Discard the old element, 3, and install a new element.
5. Inspect the O-rings, 4 and 5, and replace if necessary.
6. Install spring, 7, between bottom of element and fuel bowl.
7. Install and securely tighten the sediment bowl retaining net.
8. Open the fuel shutoff valve (the handle should be pointing to the “ON” position), 2, so fuel will flow to the filter.
9. Bleed the fuel filter and injection pump as described below in “Bleeding the Fuel System.”




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| | Model Boomer 4055/4060 |
|---|---|
| **COOLING SYSTEM** | |
| Type | Pressurized Liquid with Recirculating Bypass |
| Water Pump: | |
| Type | Centrifugal |
| Drive | V-Belt |
| Belt Deflection | 10 - 15 mm (7/16 - 9/16 in) when 9 - 11 kg (20 - 25 lb) thumb pressure is applied midway between belt pulleys |
| Fan Diameter | 410 mm (16.1 in) |
| Number of Fan Blades | 6 |
| Thermostat: | |
| Start to Open | 71 °C (160 °F) |
| Fully Open | 82 °C (180 °F) |
| Radiator Cap | 0.9 bar (13 psi) |
| Antifreeze | ethylene glycol |
| **ELECTRICAL SYSTEM** | |
| Main System Protection | Fusible Link |
| Number Fuses for Circuit Protection | 7 |
| Alternator | 12-volt, Heavy Duty, 55 amps |
| Battery Type | 12-volt, w/ negative ground, 700 cca, group 27 |
| Starter HP (KW) Rating | 2.7 (2.0) |
| Starting Motor | Solenoid Pre-Engaged Reduction |
| **FUEL SYSTEM** | |
| Fuel Type | Diesel |
| Type of Fuel to Use if Above 40°F | No. 2-Diesel, Cetane Rating: Minimum 40 |
| Type of Fuel to Use if Below 40°F | No. 1-Diesel, Cetane Rating: Minimum 40 |
| Injection Pump: | |
| Type | In-Line |
| Timing | 17°-19° BTDC - Boomer 4055<br>18°-20° BTDC - Boomer 4060 |

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