

# JOHN DEERE



ENGINE: 4045T  
Turbocharged (4.5 Liter)

BORE: 4.1929" 4 Cyl Diesel NOTES: .312" Valve Stem Diameter, 1.625" Piston Pin, 8.580" OAL Liners

APPLICATION: Backhoe Loaders: 410C, 410D, 510C, 510D; Crawlers: 450G, 455G, 550G, 555G, 650G ESN 300000-742459;

TO-Dubuque Engine Excavators: 495D, 590D, 595D After ESN 299999; 490E; Log Skidders: Late 440D, 540D;

PE-Torreon Engine Log Skidders: 540E, 548E Thru ESN 383839; Power Units: 4045TF, 4045TFM (Dubuque); 4045TF (Saran)

CD-Saran Engine Tractors: 6400, 6400L, 6500, 6500L; Wheel Loaders: 444E After ESN 299999; 344G, 444G;

|  | QTY | ITEM # | DESCRIPTION                                              | LETTERED ITEMS INCLUDED IN KIT |   |   |   |   |   |
|--|-----|--------|----------------------------------------------------------|--------------------------------|---|---|---|---|---|
|  | 1   | 954235 | In-Frame Kit: Except Tractors                            |                                |   |   |   |   | I |
|  | 1   | 954241 | In-Frame Kit: Tractors                                   |                                |   |   |   |   | I |
|  | 1   | 955235 | Out-of-Frame Kit: Except Tractors                        |                                |   |   | O |   |   |
|  | 1   | 955241 | Out-of-Frame Kit: Tractors                               |                                |   |   | O |   |   |
|  | 1   | 956235 | Major Kit: Except Tractors                               |                                |   | M |   |   |   |
|  | 1   | 956241 | Major Kit: Tractors                                      |                                |   | M |   |   |   |
|  | 4   | 151655 | Sleeve & Piston Assembly (Marked RE48469)                | M                              | M | O | O | I | I |
|  | 4   | 151656 | Piston Assembly (Marked RE48469)                         |                                |   |   |   |   |   |
|  | 4   | 151123 | Liner Assembly (8.580" OAL) (1)                          |                                |   |   |   |   |   |
|  | 4   | 151115 | Liner O-Ring Package                                     |                                |   |   |   |   |   |
|  | 4   | 151647 | Block Repair Sleeve, Lower Liner Pilot Bore (.930" OAL)  |                                |   |   |   |   |   |
|  | 4   | 151116 | Piston Ring Set (1-1/8K 1-3/32 1-3.5MM)                  |                                |   |   |   |   |   |
|  | 4   | 251382 | STD Rod Bearing                                          | M                              | M | O | O | I | I |
|  | 4   | 251384 | .010 Rod Bearing                                         |                                |   |   |   |   |   |
|  | 4   | 251385 | .020 Rod Bearing                                         |                                |   |   |   |   |   |
|  | 4   | 251386 | .030 Rod Bearing                                         |                                |   |   |   |   |   |
|  | 1   | 251336 | STD Main Bearing Set w/Thrust Washers                    | M                              | M | O | O | I | I |
|  | 1   | 251337 | .010 Main Bearing Set w/Thrust Washers                   |                                |   |   |   |   |   |
|  | 1   | 251338 | .020 Main Bearing Set w/Thrust Washers                   |                                |   |   |   |   |   |
|  | 1   | 251339 | .030 Main Bearing Set w/Thrust Washers                   |                                |   |   |   |   |   |
|  | 1   | 251119 | STD Thrust Washer Set                                    |                                |   |   |   |   |   |
|  | 1   | 251121 | .007 Thrust Washer Set                                   |                                |   |   |   |   |   |
|  | 1   | 351676 | Head Gasket Set: Except Tractors                         |                                |   |   |   |   | I |
|  | 1   | 351716 | Head Gasket Set: Tractors (4)                            |                                |   |   |   | I |   |
|  | 1   | 351151 | Valve Cover Gasket, w/Metal Cover (SEMR) (2)             |                                |   |   |   |   |   |
|  | 1   | 351124 | Valve Cover Gasket, w/Composite Cover (O-Ring) (3)       |                                |   |   |   |   |   |
|  | 8   | 351683 | Valve Seal (Positive Type Viton) (3)                     |                                |   |   |   |   |   |
|  | 1   | 351696 | Full Gasket Set w/Seals: Except Tractors                 | M                              | M | O | O |   |   |
|  | 1   | 351715 | Full Gasket Set w/Seals: Tractors (4)                    |                                |   |   |   |   |   |
|  | 1   | 351697 | Overhaul Gasket Set w/Seals: Except Tractors             |                                | M |   | O |   |   |
|  | 1   | 351711 | Block Gasket Set                                         |                                |   |   |   |   |   |
|  | 1   | 351684 | Timing Cover Gasket, w/Composite Cover (O-Ring) (3)      |                                |   |   |   |   |   |
|  | 1   | 351686 | Timing Cover Gasket, RH Side Aux Gear Drive (3)          |                                |   |   |   |   |   |
|  | 1   | 351149 | Pan Gasket (Cast or Aluminum Pan)                        |                                |   |   |   |   |   |
|  | 1   | 351327 | Pan Gasket (Sheet Metal Pan)                             |                                |   |   |   |   |   |
|  | 1   | 351666 | Pan Gasket Set (2-Gaskets, 3-O-Rings, 1-D-Ring 1-Sleeve) |                                |   |   |   | I | I |
|  | 1   | 351128 | Front Crank Seal                                         |                                | M |   | O |   |   |
|  | 1   | 351154 | Front Crank Spacer Assembly (3)                          |                                |   |   |   |   |   |
|  | 1   | 351228 | Front Crank Seal Kit (Includes Wear Sleeve)              |                                |   |   |   |   |   |
|  | 1   | 351129 | Rear Crank Seal Kit                                      |                                | M |   | O |   |   |
|  | 4   | 251565 | Pin Bushing (Boreable / 1.625" Pin)                      | M                              | M |   |   |   |   |
|  | 4   | 251566 | Pin Bushing (Honeable / 1.625" Pin)                      |                                |   |   |   |   |   |
|  | 6   | 251423 | Balancer Bushing                                         | M                              | M |   |   |   |   |
|  | 6   | 251424 | 2.00MM Oversize Balancer Bushing                         |                                |   |   |   |   |   |
|  | 8   | 751341 | Rod Bolt                                                 | M                              | M | O | O | I | I |
|  | 18  | 751129 | Head Bolt (4.410" Flanged Head)                          |                                |   |   |   |   |   |

(1)Liner Shims: .002 - 151637 / .004 - 151638

(2)Special Valve Cover Screw - 751256

(3)Not Included In Gasket Sets Or Kits

(4)Includes Valve Seals

JD-276-H

7/22/2006

CLICK THE ITEM # TO VIEW OR PURCHASE PART

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ENGINE: 4045T  
Turbocharged (4.5 Liter)

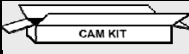
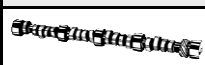
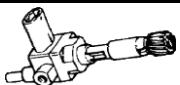
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PE-Torreon Engine Log Skidders: 540E, 548E Thru ESN 383839; Power Units: 4045TF, 4045TFM (Dubuque); 4045TF (Saran)

CD-Saran Engine Tractors: 6400, 6400L, 6500, 6500L; Wheel Loaders: 444E After ESN 299999; 344G, 444G;

|                                                                                     | QTY | ITEM # | DESCRIPTION                                                 | LETTERED ITEMS INCLUDED IN KIT |   |   |   |   |
|-------------------------------------------------------------------------------------|-----|--------|-------------------------------------------------------------|--------------------------------|---|---|---|---|
|    | 1   | 959525 | Camshaft Kit                                                |                                |   |   |   | C |
|    | 1   | 959333 | Basic Valve Kit                                             |                                |   |   | B |   |
|                                                                                     | 1   | 959133 | Valve Train Kit                                             |                                |   | V |   |   |
|    | 1   | 551343 | Camshaft "Use w/Screw-In Tach Drive (5)"                    |                                |   |   |   | C |
|                                                                                     | 8   | 551113 | Tappet                                                      |                                |   |   |   | C |
|    | 4   | 451111 | STD Exhaust Valve (6)                                       |                                | V |   | B |   |
|                                                                                     | 4   | 451113 | STD Intake Valve (7)                                        |                                | V |   | B |   |
|    | 8   | 451531 | Exhaust Service Repair Valve Guide (.502 OD / 2.390" OAL)   |                                |   |   |   |   |
|                                                                                     | 8   | 451532 | Intake Service Repair Valve Guide (.502 OD / 2.209" OAL)    |                                |   |   |   |   |
|                                                                                     | 8   | 451115 | Valve Spring                                                |                                | V |   | B |   |
|                                                                                     | 8   | 451116 | Rotator                                                     |                                | V |   |   |   |
|                                                                                     | 16  | 451117 | Keeper (Half)                                               |                                | V |   | B |   |
|    | 4   | 451126 | Ex Seat, OEM Dubuque (1.345-T-1.482 x 1.695 x .242) (8)     |                                |   |   |   |   |
|                                                                                     | 4   | 451119 | Ex Seat, OEM Saran (1.345-T-1.482 x 1.697 x .243)           |                                |   |   |   |   |
|                                                                                     | 4   | 451127 | In Seat, OEM Dubuque (1.550-T-1.650 x 1.857 x .257) (9)     |                                |   |   |   |   |
|                                                                                     | 4   | 451122 | In Seat, OEM Saran (1.550-T-1.650 x 1.859 x .257)           |                                |   |   |   |   |
|  | 8   | 451124 | Rocker Arm, Early (Socket Type Adj Screw) "Use w/551122"    |                                |   |   |   |   |
|                                                                                     | 8   | 451533 | Rocker Arm, Late (Ball Type Adj Screw) "Use w/551123"       |                                |   |   |   |   |
|                                                                                     | 1   | 451254 | Rocker Arm Shaft "Rocker Arm Shaft Plug - 451165"           |                                |   |   |   |   |
|  | 1   | 551137 | Cam Gear (48 Helical Teeth) "Spur Gear - 551114"            |                                |   |   |   |   |
|                                                                                     | 1   | 551138 | Crank Gear (24 Helical Teeth) "Spur Gear - 551115"          |                                |   |   |   |   |
|                                                                                     | 1   | 551139 | Upper Idler Gear (55T Helical / 23 Notches) "Bush - 551142" |                                |   |   |   |   |
|                                                                                     | 1   | 551141 | Lower Idler Gear (45T Helical) "Bush - 551143 (.750" Wide)" |                                |   |   |   |   |
|                                                                                     | 8   | 551122 | Push Rod (2-Ball Tips / 10.63" OAL)                         |                                |   |   |   |   |
|                                                                                     | 8   | 551123 | Push Rod, Late Style (1-Socket 1-Ball / 10.43" OAL)         |                                |   |   |   |   |
|  | 1   | 651145 | Oil Pump, Early (2.000" Gears) "Oil Pump Kit - 651149"      |                                |   |   |   |   |
|                                                                                     | 1   | 651128 | Oil Pump, Late (1.625" Gears) "Oil Pump Kit - 651131"       |                                |   |   |   |   |
|                                                                                     | 1   | 651269 | Oil Cooler Element: Except Below (2.375" Core Diameter)     |                                |   |   |   |   |
|                                                                                     | 1   | 651271 | Oil Cooler Element: 4045TF Codes 5902, 5903 (3.375" Core)   |                                |   |   |   |   |
|                                                                                     | 1   | 651258 | Oil Cooler: 4045TF Saran, Tractors (8 Plate Doughnut)       |                                |   |   |   |   |
|  | 1   | 751116 | Crankshaft (Long 60MM Nose)                                 |                                |   |   |   |   |
|                                                                                     | 4   | 751347 | Connecting Rod (1.625" Pin)                                 |                                |   |   |   |   |
|                                                                                     | 1   | 751343 | LH Balancer Shaft Assembly (Bolt-On Weights)                |                                |   |   |   |   |
|                                                                                     | 1   | 751344 | RH Balancer Shaft Assembly (Bolt-On Weights)                |                                |   |   |   |   |
|                                                                                     | 1   | 851188 | Fuel Pump (Threaded Ports) "w/Vert Hose Barbs - 851342"     |                                |   |   |   |   |
|                                                                                     | 2   | 851174 | Thermostat, Except Saran (180°) "Some Engs Use Only 1"      |                                |   |   |   |   |
|                                                                                     | 1   | 851249 | Block Heater                                                |                                |   |   |   |   |
|                                                                                     |     |        | (10) Water Pumps (11) Pump Kits (12) Pump Kits wo/Impeller  |                                |   |   |   |   |

(5) Late Screw-In Tach Drive: Shaft Type - 551136 / Gear Type (.541 Gear Length) - 551146 / Gear Type (.711 Gear Length) - 551147

(6).015 - 451112 / .030 - 451528 (7).015 - 451114 / .030 - 451529 (8)Oversize Ex Seat - 451121 (9)Oversize In Seat - 451123

(10)6400, 6400L, 6500, 6500L - 851354 / 440D, 540D - 851356 / 4045TF Codes 2001, 2004; 555G, 650G - 851345

(10)4045TF Code 2016 - 851331 / 4045TF Code 2017, 2019 - 851334

(11)6400, 6400L, 6500, 6500L - 851362 / 4045TF Codes 2017, 2019 - 851352 / 4045TF Codes 2016, 2020, 2021 - 851321

(11)4045TF Codes 2001, 2002, 2004, 2009, 2023, 2029; 440D, 444E, 450G, 455G, 490E, 540D, 550G, 555G, 650G - 851332

(12)344G, 444G, 495D, 540E, 548E, 590D, 595D - 851328 / 410C, 410D, 510C, 510D - 851329