# John Deere 643L-II Wheeled Feller Buncher Operation & Test Technical Manual (TM14327X19)

### 643L-II Wheeled Feller Buncher Diagnostic

(PIN: 1DW643L\_\_\_F690815--)



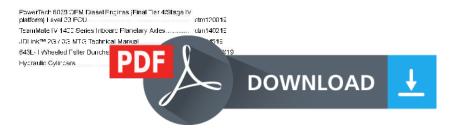
JOHN HARE



## OPERATION & TEST TECHNICAL MANUAL 643L-II Wheeled Feller Buncher

(PIN: 1DW643L\_\_\_F690815—) TM14327X19 30NOV19 (ENGLISH)

For complete service information also see:



Worldwide Construction and Forestry Division

**Covers:** 643L-II,1DW643L\_,\_F690815������

**Type:** Service Manual **Language:** English

**Pages:** 715 **Format:** PDF

**Features:** Bookmarked, searchable, printable **Compatibility:** Windows/Mac/Tablet/Mobile

This service manual contains important information for the maintenance, troubleshooting and servicing of

the John Deere 643L-II Wheeled Feller Buncher Operation & Test Technical Manual (TM14327X19)

In this manual you will find detailed specifications, illustrations, schematics, diagrams and step-by-step procedures to properly service and diagnose the machine to the manufacturer's standards.

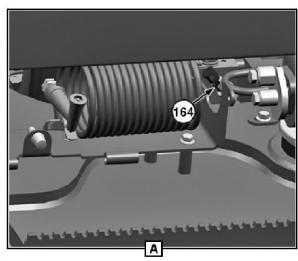
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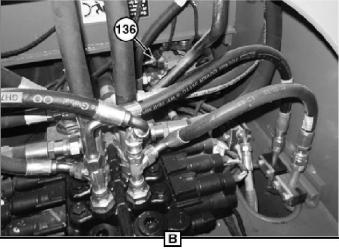
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Please note this manual is in <b>downloadable PDF format only.</b> If you have any questions about this product or would like to request sample pages, please contact us and reference the product name or SKU.	

#### **Hydraulic Test Port Locations**











TX1262280A UN: Hydrauic Test Port Locations LEGEND:

49-Accumulator Test Port

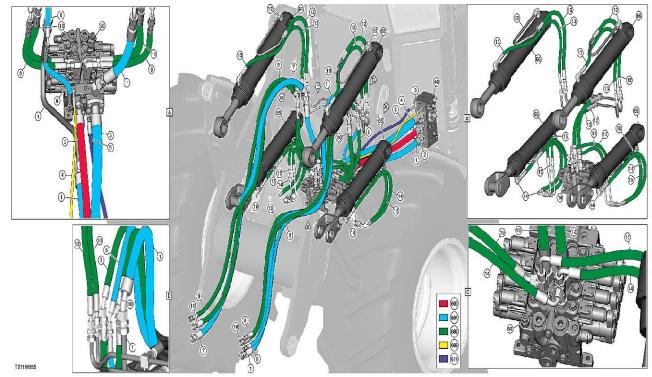
136-Park Brake Test Port

164-Differential Lock Pressure Test Port

Test ports (49, 136, and 164) are used to connect JT02156A Digital Pressure and Temperature Analyzer Kit. Ports are the same for the saw and shear machine. For more information on test port locations, see Hydraulic System Schematic—Saw or see Hydraulic System Schematic—Shear. (Group 9025-10.)

JM46292,00001D3-19-20180815

#### Main Control Valve and Boom Circuit Line Identification



TX1166365-UN: Main Control Valve and Boom Circuit \_ine Identification LEGEND:

1-Return Line (hydraulic pump manifold port 7-Return Line (saw motor port A to main 13-Tilt In Line (main control valve [4-spool] SAW MOTOR to saw motor port B)

2-High-Pressure Line (hydraulic pump manifold port P MAIN VALVE to main control valve [4-spool] port P)

3-Return Line (main control valve [4-spool] port T to hydraulic pump manifold port T1) 4-Pilot Line (hydraulic pump manifold port PILOT MAIN to main control valve [4-spool]) 5-Load Sense Line (hydraulic pump manifold port LS MAIN VALVE to main control valve [4-spool] port LS)

6-Case Drain Line (saw motor port T2 to main control valve [4-spool] port SUMP)

control valve [4-spool])

8-Accumulator Arm Close Line (main control valve [4-spool] port A to accumulator cylinder head end)

9-Accumulator Arm Open Line (main control valve [4-spool] port B to accumulator cylinder rod end)

10-Clamp Open Line (main control valve [4-spool] port A to clamp cylinder rod end) 11-Clamp Close Line (main control valve [4-spool] port B to clamp cylinder head end) 12-Tilt Out Line (main control valve [4-spool] port A to tilt cylinders head end)

port B to tilt cylinders rod end)

14-Boom Lower Line (main control valve [4-spool] port A to boom cylinders rod end) 15-Boom Lift Line (main control valve [4-spool] port B to boom cylinders head end) 40-Hydraulic Pump Manifold

50-Main Control Valve (4-spool) 65-Boom Cylinder (2 used)

66-Tilt Cylinder (2 used) 600-High-Pressure Oil 604-Return Oil

606-Trapped Oil 609-Pilot Oil 614-Load Sense Oil



Thank you very much for your reading.

Please click here to get more information.