

SPECIFICATIONS**MAXIMUM LIFT CAPACITY – ALL MODELS**

Test results to OECD criteria—links horizontal, maximum hydraulic pressure:

Without Assist Ram

610 mm (24 in.) to rear of ball ends	4425 Kg
	9755 lb

With 1 Assist Ram

610 mm (24 in.) to rear of ball ends	5530 kg
	12190 lb

With 2 Assist Rams

610 mm (24 in.) to rear of ball ends	6475 kg
	14275 lb

VALVE SETTINGS

Lift Cylinder Relief Valve (located in EDC Valve)	2850–3050 lbf/in ² (197–210 bar)
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HYDRAULIC LIFT COVER (120 to 155 Models Only)

Hydraulic Lift Cylinder Bore Diameter	115.036 – 115.071 mm	4.528 – 4.530 in
Hydraulic Lift Cylinder Piston Diameter	114.978 – 115.000 mm	4.526 – 4.527 in
Hydraulic Lift Cylinder to Piston Clearance	0.036 – 0.093 mm	0.0014 – 0.0037 in
Hydraulic Lift Cross Shaft End Float (with lift arms installed)	0.2 – 1.4 mm	0.0079 – 0.0551 in

GASKET SEALER

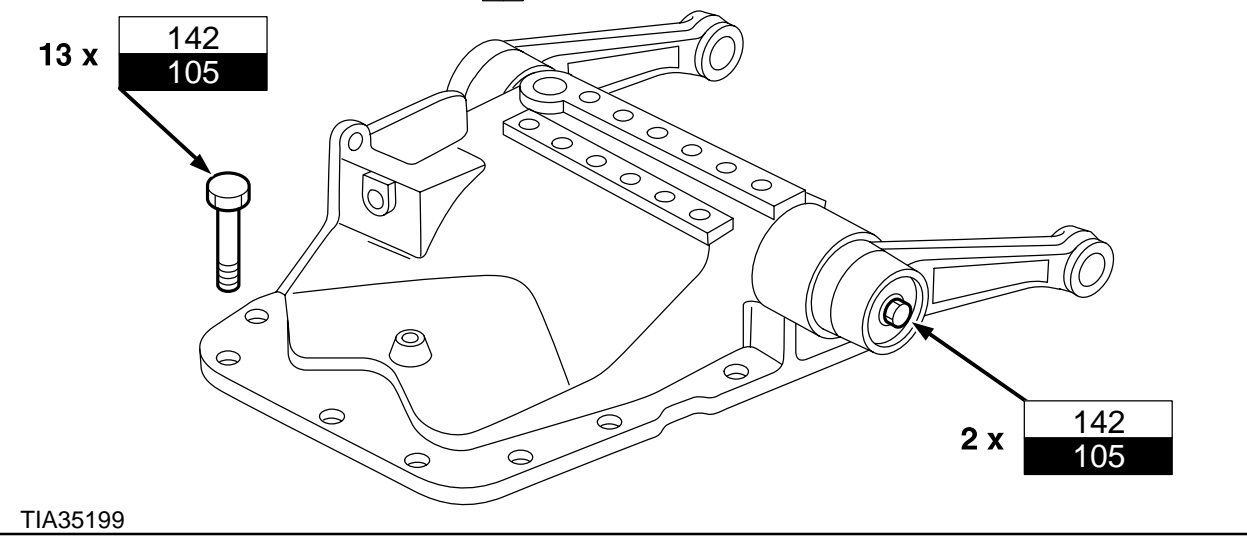
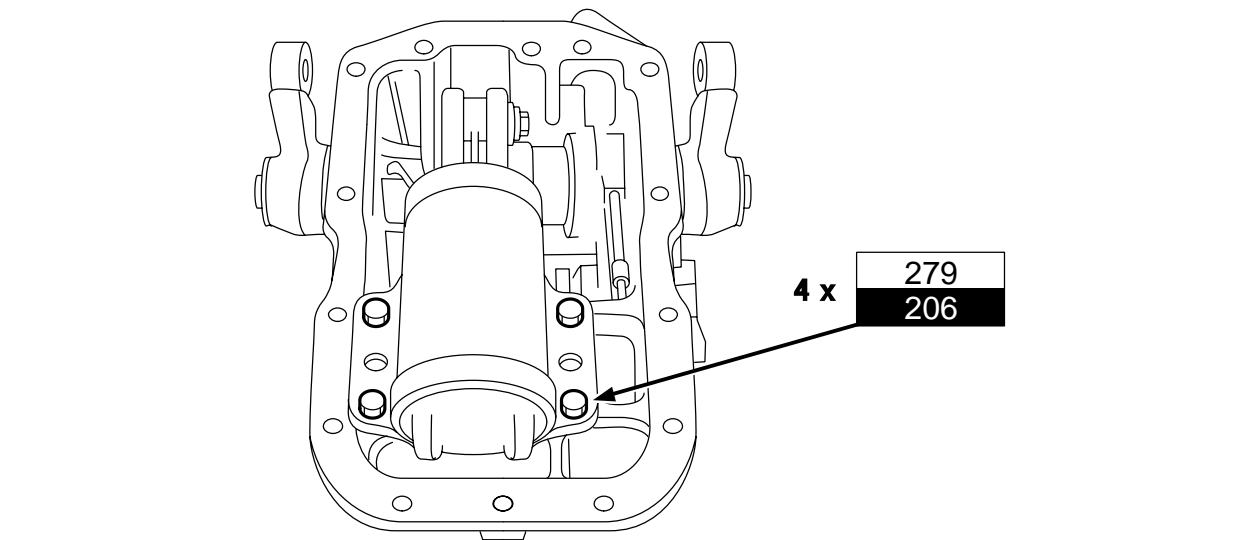
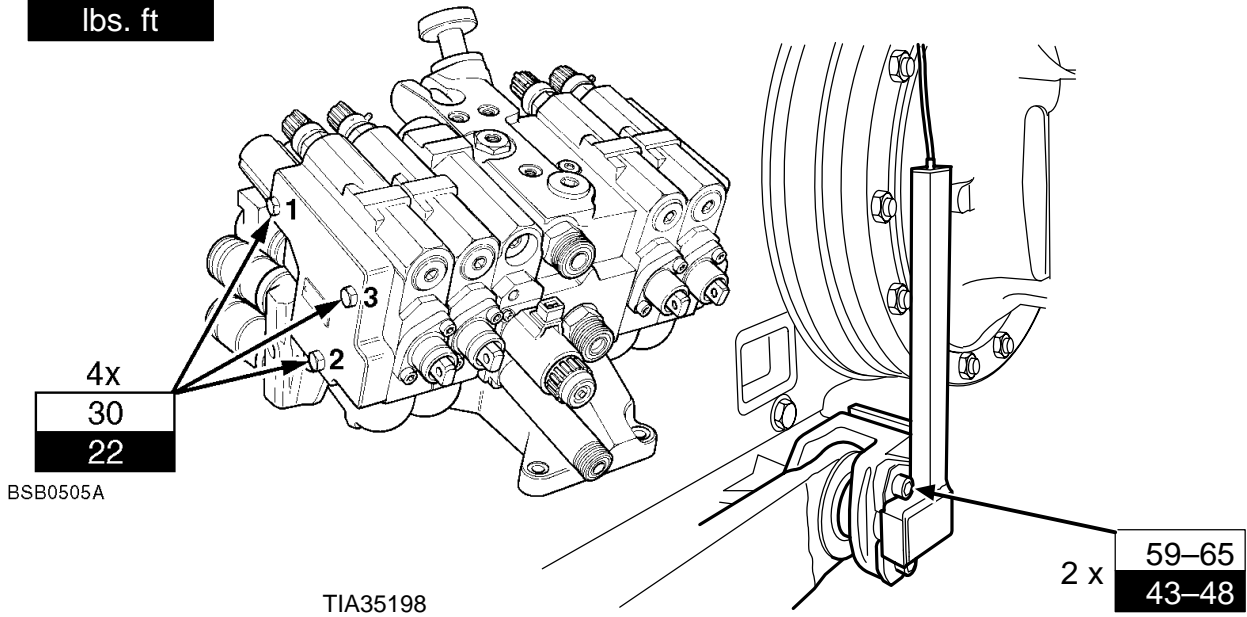
Flexible Gasket Sealant	Loctite 574
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SPECIAL TOOLS

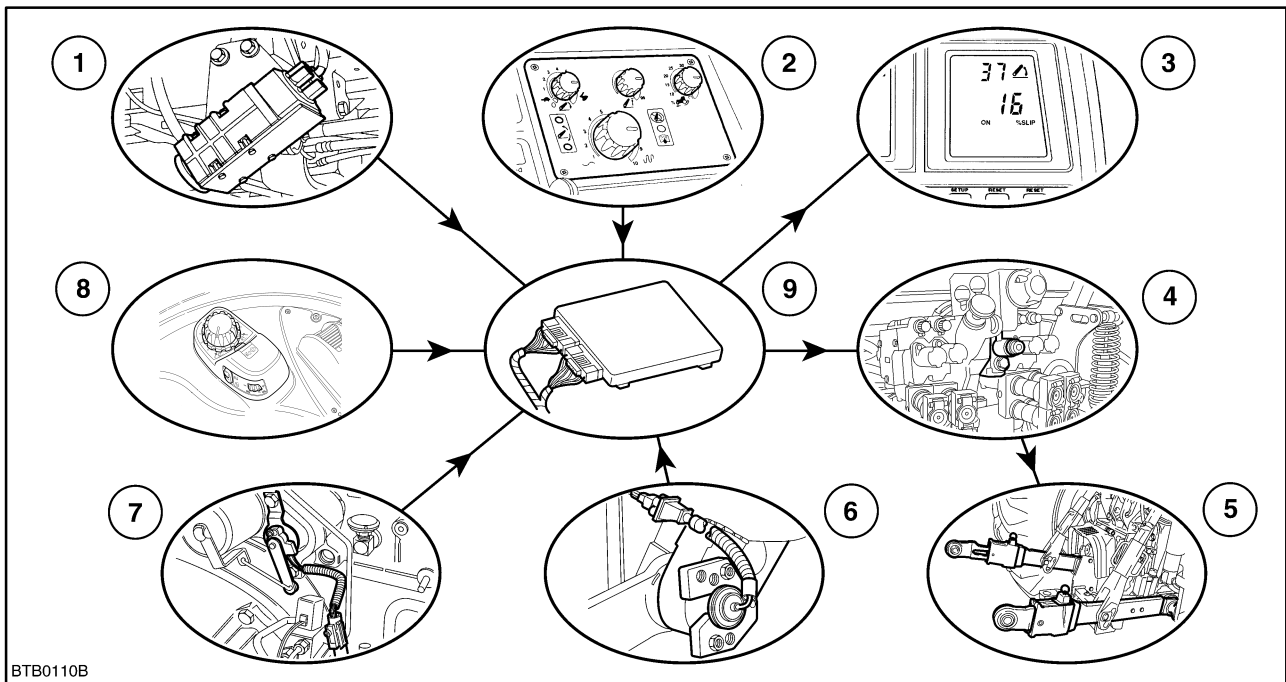
	Tool Part No.	
Hydraulic Lift Bracket	380000473	
Hydraulic Lift Lifting Hook	380000224	
Lift Piston Installation Ring (optional)	380000467	
Lift Cross Shaft Seal Installer	380000474	
Electrical Repair Kit	380030042	
Test Probe Kit	380050010	
Flowmeter	Suitable for measuring 0–120 ltrs/min	–
Flowmeter Hoses	Procure locally to suit Flowmeter used	–

TORQUES

Nm
lbs. ft



DESCRIPTION AND OPERATION



BTB0110B

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Position/Draft Control Schematic

- | | |
|-----------------------------------|--|
| 1. Performance Monitor Radar | 6. Load Sensing Pins |
| 2. Control Panel | 7. Lift Arm Position Sensing Potentiometer |
| 3. Instrument Panel | 8. Implement Depth/Draft Controls |
| 4. Electronic Draft Control Valve | 9. Microprocessor |
| 5. Hydraulic Lift | |

Principal of Draft Control

One method of providing a more constant depth control is to take advantage of the fact that draft loading increases with implement depth. If a fixed implement draft is maintained a fixed implement depth will result, providing the tractor speed and type of soil being worked remain constant.

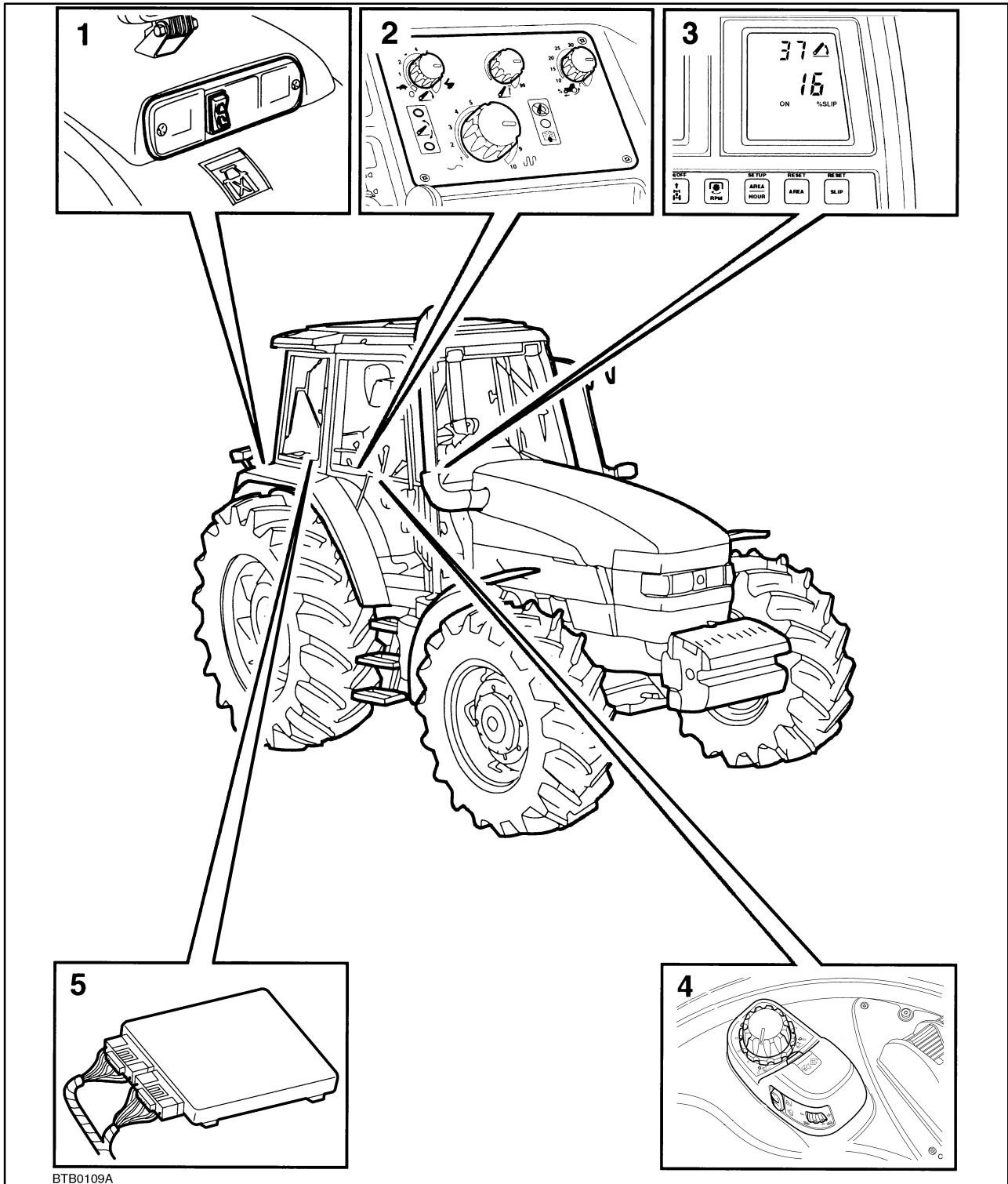
The hydraulic lift electronic draft control system provides a means of accurately controlling implement draft and soil penetration depth on fully or semi mounted implements.

The principle of electronic draft control, is to sense draft variations through two load sensing pins in the

lower links and using a microprocessor translate these variations into electrical signals for controlling the draft loading and working depth of an implement.

The smoothness and accuracy provided during operation gives this system a clear advantage over conventional mechanical systems.

In addition to providing draft control, it is also necessary to provide a system where the hydraulic links can be maintained at a position relative to the tractor regardless of draft forces on the implement. This method of maintaining the implement position is called position control.

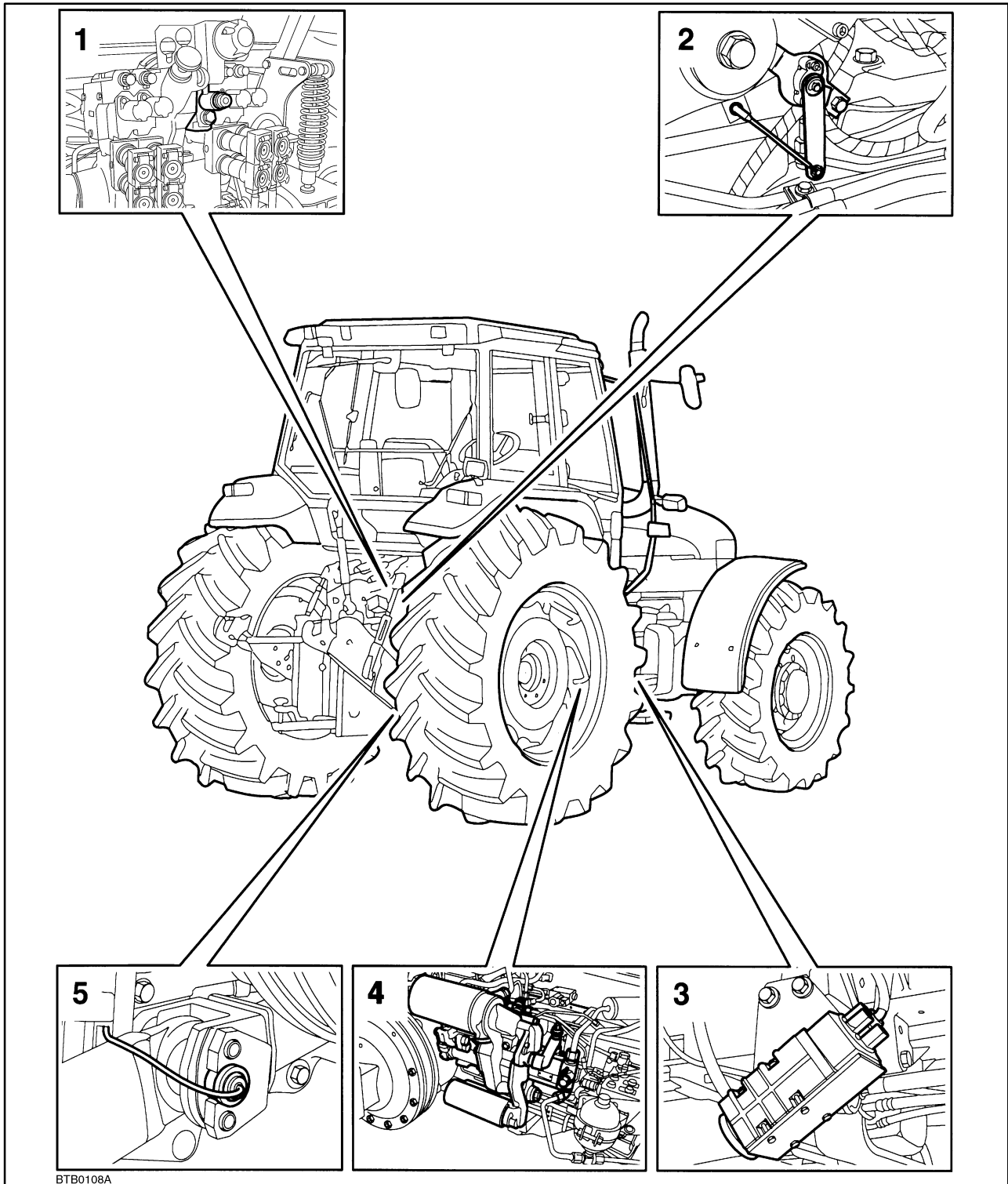


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Electronic Draft Control Component Layout

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|---|-----------------------------------|
| 1. Rear Fender External Lift/Lower Switch | 4. Implement Depth/Draft Controls |
| 2. Draft Sensitivity and Drop Rate Controls | 5. EDC Microprocessor |
| 3. Instrument Cluster | |



Electronic Draft Control Component Layout – Continued

- | | |
|--|---|
| 1. Electronic Draft Control Valve | 4. Variable Displacement Hydraulic Pump (120–155 Model shown) |
| 2. Lift Arm Position Sensing Potentiometer | 5. Load Sensing Pin |
| 3. Performance Monitor Radar | |