SPECIFICATIONS

6466 Engine

Valve clearance, intake valve	0.45 mm (0.018 in.)
Valve clearance, exhaust valve	0.70 mm (0.028 in.)
Compression	2450 to 2850 kPa (24.5 to 28.5 bar; 355 to 415 psi)
Max. difference in compression pressure	

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REMOVE AIR CONDITIONING UNIT

1. Disconnect refrigerant hoses at connections under the grain tank near the hydraulic control valve.

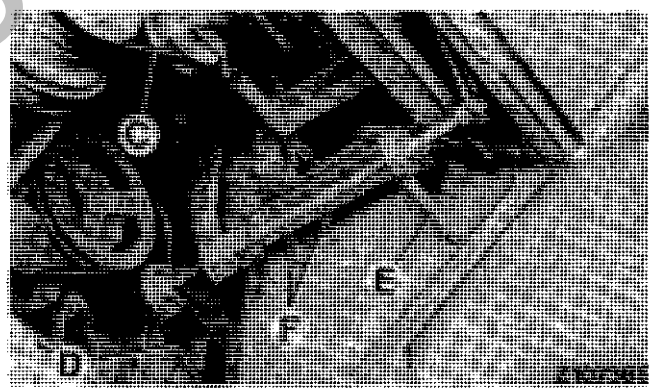
2. Separate wiring harness of air conditioning unit at connection (B).

3. Remove drive belts (C) and (D). Unhook spring (E).

4. Unscrew four attaching screws (F) of air conditioning unit. Use a suitable hoist to lift unit from combine.







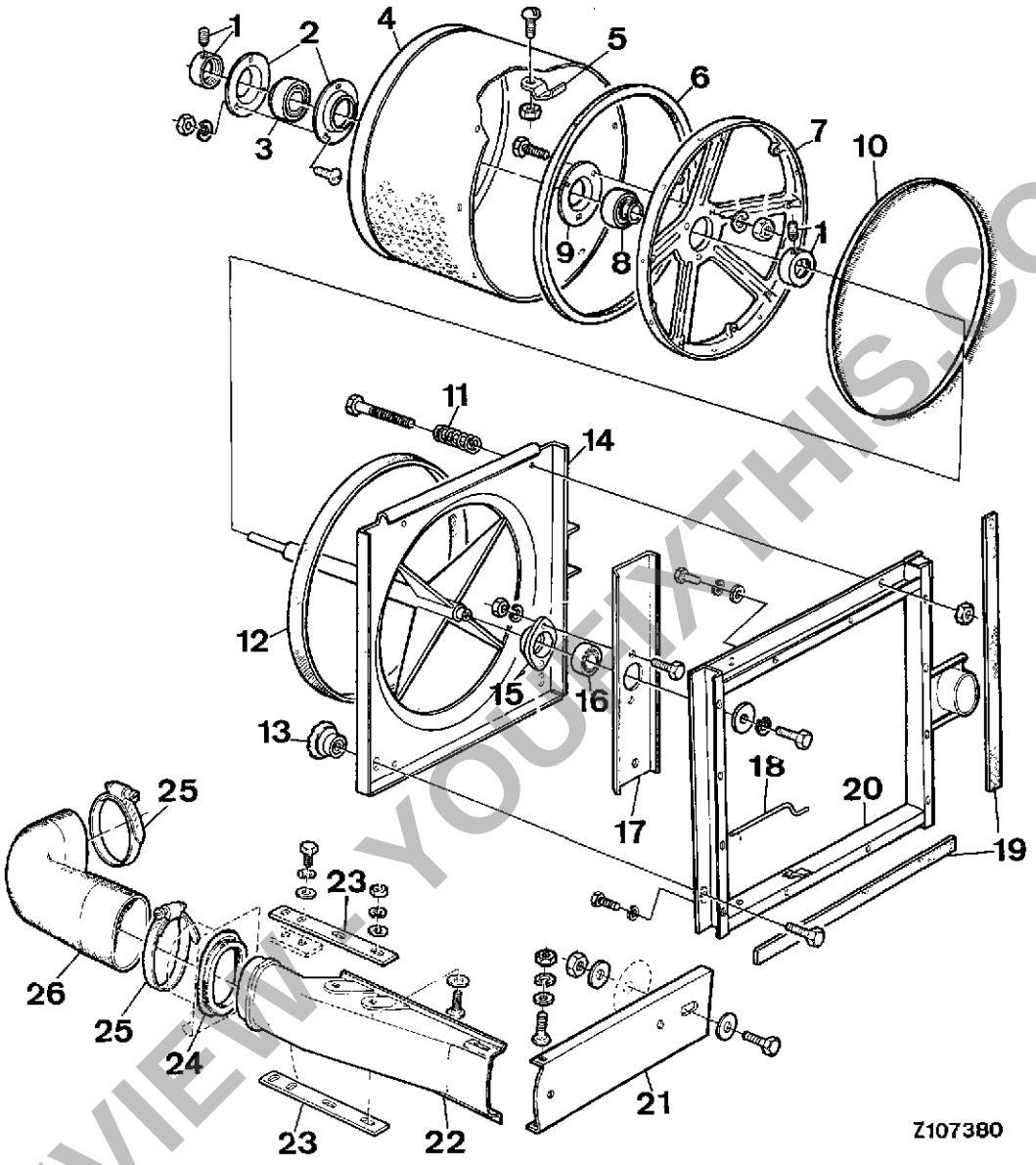
B – Connector – Wiring harness, air conditioner
C – Drive belt – Air conditioner
D – Drive belt – Blower drive
E – Spring
F – Attaching screws

Z106626,Z107364,Z107365-ZI32005AE-001085

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ROTARY SCREEN COMPONENTS

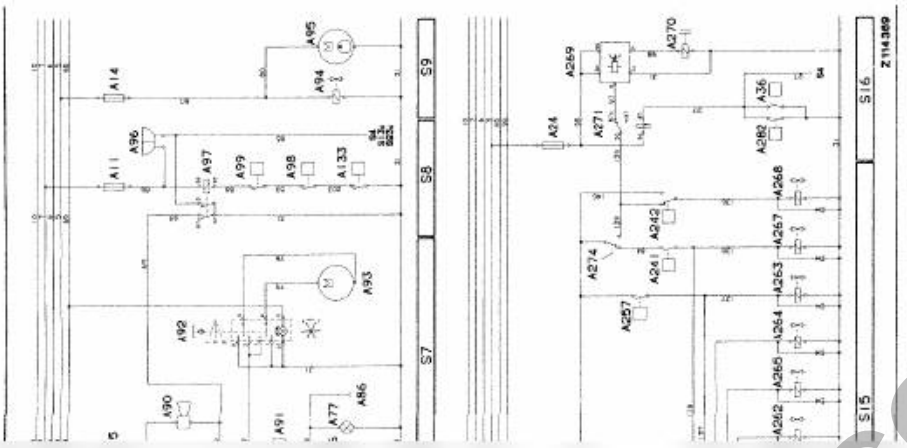


1 – Clamping ring
2 – Bearing housing
3 – Ball bearing
4 – Rotary screen
5 – Clamp
6 – Seal
7 – Spoked hub
8 – Ball bearing
9 – Bearing housing
10 – Brush
11 – Spring (2 used)
12 – Seal
13 – Knob (2 used)
14 – Frame
15 – Bearing housing
16 – Ball bearing
17 – Fan blade
18 – Lock pin
19 – Sealing strip
20 – Frame
21 – Cover plate
22 – Suction tube
23 – Strap
24 – Seal ring
25 – Hose clamp
26 – Suction hose

Disassemble rotary screen as far as necessary, replace defective parts and reassemble.

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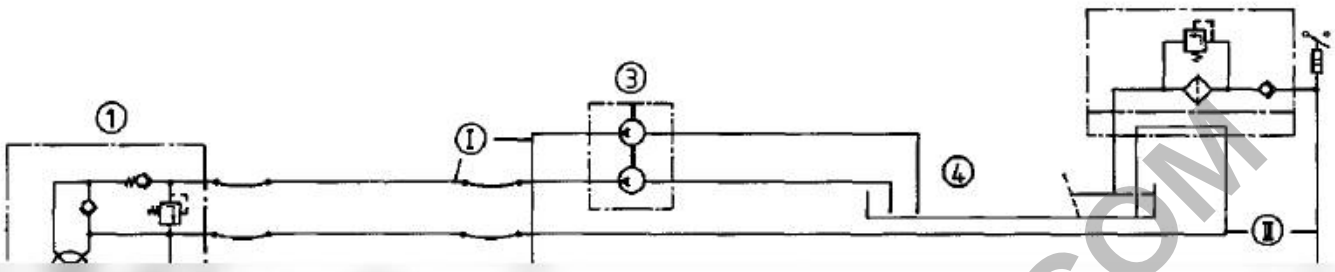


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HYDRAULIC CIRCUIT (WITH MECH. SEVEN-SPOOL CONTROL VALVE)



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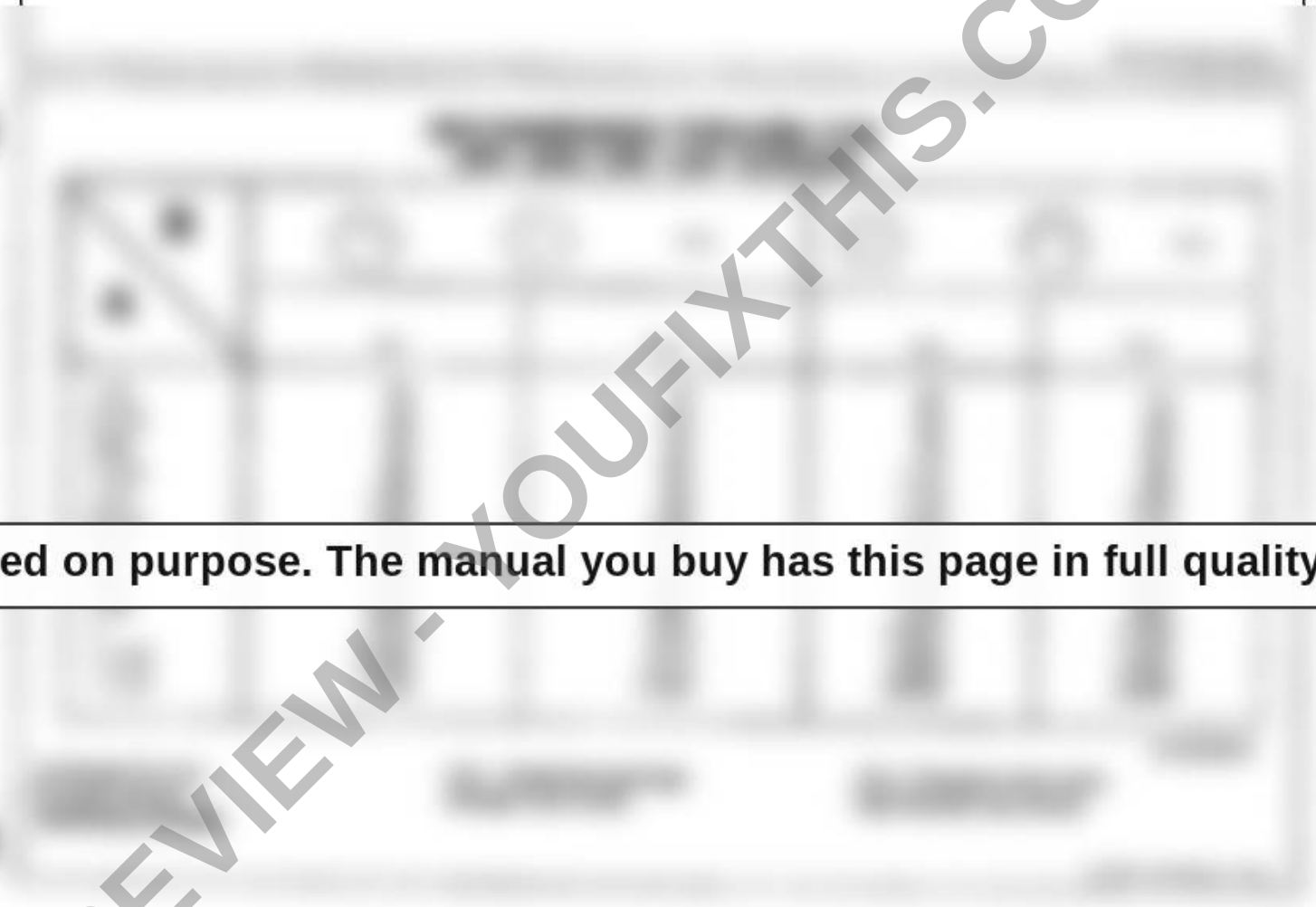
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STANDARD TORQUES – GENERAL

All specified torques are only valid for non-greased or non-oiled threads.

A variation of ± 10% is permissible for all torques specified below.



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TROUBLE SHOOTING

Raising Cutting Platform Slowly Not Operating
Raising Cutting Platform Fast Not Operating

– Solenoid M0 not activated; no pressure build-up.
Check relay box, line to solenoid, connector with diode, solenoid and ground connection.

– Solenoid M1 not activated; no pressure build-up; pressure relief valve operating.
Check relay box, line to solenoid, connector with diode, solenoid and ground connection.

– Solenoid M0, M1 and M5 not activated.
Check complete circuit, fuse A17, switch in multi-function lever, connectors, relay box and lines to solenoids.

Raising Cutting Platform Slowly Operating
Raising Cutting Platform Fast Not Operating

Solenoid M5 not activated; flow divider does not switch over.
Check second stage of switch in multi-function lever, connectors, relay box, lines to solenoid, solenoid and ground connection.

Raising Cutting Platform Slowly Not Operating
Raising Cutting Platform Fast Operating

Fault in hydraulic system, for example oil flow to electro-magnetic control valve less than 23 l/min (6 gpm).

Lowering Cutting Platform Slowly Not Operating
Lowering Cutting Platform Fast Not Operating

– Solenoid M3 not activated.
Check fuse A17, switch in multi-function lever, connectors, relay box, line to solenoid with diode in connector, solenoid and ground connection.

Lowering Cutting Platform Slowly Operating
Lowering Cutting Platform Fast Not Operating

Check second stage of switch in multi-function lever, connectors, relay box, line to solenoid with diode in connector, solenoid and ground connection.

Reverser Not Operating

– Solenoid M0 not activated; no pressure build-up.
Check relay box, line to solenoid, connector with diode, solenoid and ground connection.

– Solenoid M2 not activated; no pressure build-up; pressure relief valve operating.
Check relay box, line to solenoid, connector with diode, solenoid and ground connection.

– Solenoid M0, M2 and M5 not activated.
Check complete circuit, fuse A17, reverser switch A257, connectors, relay box and lines to solenoids.

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Combines 1166, 1169H, 1174, 1177, 1177 Hydro/4, 1188, 1188 Hydro/4 TECHNICAL MANUAL TM4452 (Apr-90)

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Group 10 – Electrical system components
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Group 40 – Hydrostatic drive, oil cooler
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SECTION 60 – BRAKES, REAR AXLE AND STEERING

Group 05 – Parking brake
Group 10 – Brake operating assembly
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Group 30 – Rear axle (sidehill combine)

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CAPACITIES

Engine lubrication system	
– 1177 Hydro/4, 1188, 1188 Hydro/4	20 liters (5.3 U.S.gal.)
– 1177	17 liters (4.5 U.S.gal.)
– 1166, 1174, 1169H	13 liters (3.4 U.S.gal.)
Hydrostatic ground speed drive	24 liters (6.3 U.S.gal.)
Transmission with differential	6.6 liters (1.75 U.S.gal.)
Final drive (each)	2.2 liters (0.6 U.S.gal.)
Complete hydraulic system	25 liters (6.6 U.S.gal.)
Clutch and brake operating assembly	1.5 liters (0.4 U.S.gal.)
Chain transmission (cutting platform drive)	0.5 liters (0.13 U.S.gal.)
Hydrostatic reel drive	12 liters (3.17 U.S.gal.)
Cylinder drive reduction gear	1.9 liters (0.5 U.S.gal.)
Engine cooling system	
– 1177 Hydro/4, 1188, 1188 Hydro/4	34 liters (9.0 U.S.gal.)
– 1166, 1169H, 1174, 1177	30 liters (8.0 U.S.gal.)
Refrigerant capacity (air conditioning)	1950 g (68.8 oz.)
Compressor oil charge	320 cm^3 (19.5 cu.in.)
Fuel tank capacity	300 liters (80 U.S.gal.)

SPECS-ZI4IIIAE-010788

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SPECIFICATIONS

Sensor colour code at cross shaker	blue
Sensor colour code at tailings elevator	yellow
Sensor colour code at clean grain elevator	yellow
Sensor colour code at fan	green
Sensor colour code at straw chopper	red
Distance between sensor and sending unit	1 to 3 mm (0.04 to 0.12 in.)
Alarm at a shaft speed of less than:	
– Fan	300 rpm
– Tailings elevator	300 rpm
– Clean grain elevator	300 rpm
– Cross shaker	230 rpm
– Straw chopper	2175 rpm

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CONTENTS OF THIS SECTION (CONTD.)

	1166	1169H	1174	1177	1177HY4	1188	1188HY4
Group 35 – Hydrostatic Drive, Fixed-Displacement Motor (Sauer)							
Special tools 50-35-1					x		x
Torques for hardware 50-35-3					x		x
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Preparations for disassembly 50-35-5					x		x
Valve block components 50-35-5					x		x
Disassembly 50-35-6					x		x
Repair 50-35-8					x		x
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Preparations for assembly 50-35-10					x		x
Assembly 50-35-10					x		x
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Group 36 – Hydrostatic Drive, Fixed-Displacement Motor (Eaton)							
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Torques for hardware 50-36-4					x		x
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Repair fixed-displacement motor 50-36-11					x		x
Assemble fixed-displacement motor 50-36-11					x		x
Check drive shaft axial play 50-36-12					x		x
Group 40 – Hydrostatic Drive, Oil Cooler							
Repair 50-40-1					x		x

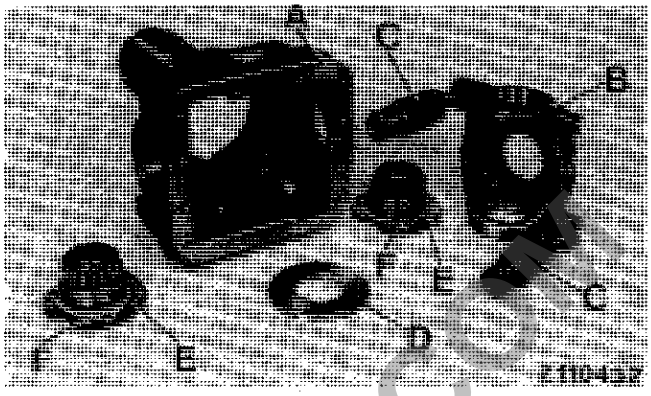
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REMOVING SWASHPLATE WITH SERVO PISTONS

A–Pump housing
B–Swashplate
C–Servo piston
D–Thrust plate
E–Trunnions
F–Spacers



Z110432-ZI45030AE-011187

REPAIRING VARIABLE PUMP

When repairing variable pump, observe the following points:

– Check shaft seal assembly for scores at sliding surfaces. Replace all O-rings.

– Always use a new gasket between charge pump and end cap.
If charge pump is defective, replace complete pump.

– Check valve plate and bearing plate for damage and replace, if necessary. Always use new O-rings and gaskets.

– Check thrust plate surface for serviceability and replace thrust plate, if necessary.

– Check drive shaft bearing area and bearings as well as trunnions for roughness and discoloration and replace, if necessary.

– Check cylinder block and pistons with slippers for damage. Pistons may be replaced individually.

– Thoroughly clean all parts prior to assembly.

– Before assembling parts, coat all bearing surfaces with hydraulic oil. Grease O-rings with vaseline.

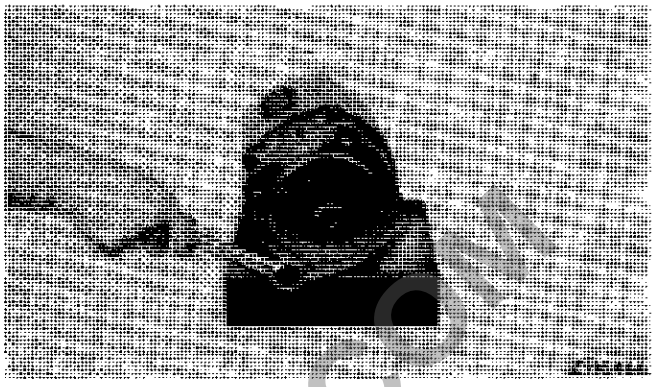
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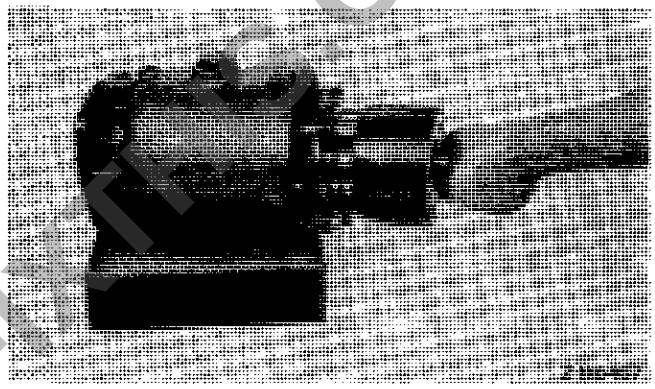
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REMOVE SWASHPLATE

Remove the two hex. socket screws and take swashplate with drive shaft and cylinder block out of motor housing.



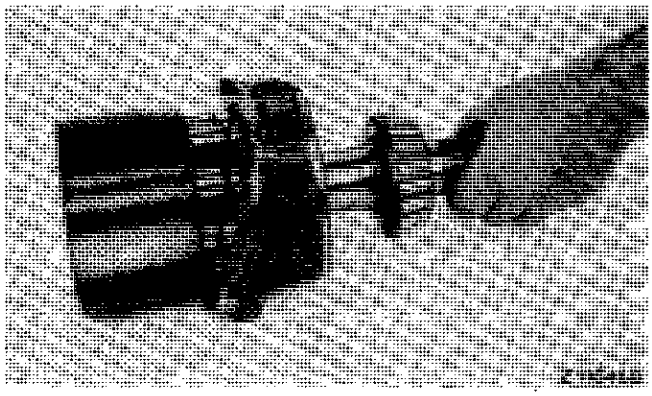


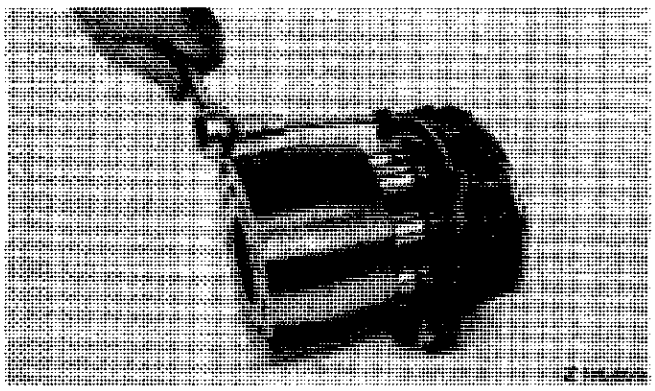
Z116466,Z116467-ZI55045AE-111189

DISASSEMBLE SWASHPLATE PARTS

Remove drive shaft from swashplate assembly.

IMPORTANT: Do not damage shaft sealing surface.





Z116468,Z116469-ZI55045AE-111189

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CONTENTS OF THIS SECTION (CONTINUED)

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Specifications	60-18-3		x					
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Removing brake booster	60-18-5		x					
Disassembling brake booster	60-18-6		x					
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Removing master cylinder	60-18-8		x					
Master cylinder – exploded view	60-18-9		x					
Removing pressure equalizing valve	60-18-10		x					
Removing brake pads of brake disk	60-18-10		x					
Removing brake disk and operating cylinder	60-18-11		x					
Bleeding brake booster system	60-18-12		x					
Bleeding foot brake system	60-18-13		x					
Group 20 – Hydrostatic Steering								
Special tools	60-20-1	x	x	x	x	x	x	x
Steering unit:								
Removal	60-20-2	x	x	x	x	x	x	x
Disassembly	60-20-3	x	x	x	x	x	x	x
Exploded view	60-20-7	x	x	x	x	x	x	x
Repair	60-20-8	x	x	x	x	x	x	x
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Check safety valves	60-20-16	x	x	x	x	x	x	x
Adjust safety valves	60-20-16	x	x	x	x	x	x	x
Check pressure control valve	60-20-17	x	x	x	x	x	x	x
Adjust pressure control valve	60-20-17	x	x	x	x	x	x	x
Install steering unit	60-20-18	x	x	x	x	x	x	x
Bleeding steering system	60-20-18	x	x	x	x	x	x	x
Remove steering cylinder	60-20-19	x	x	x	x	x	x	x
Repair steering cylinder	60-20-19	x	x	x	x	x	x	x

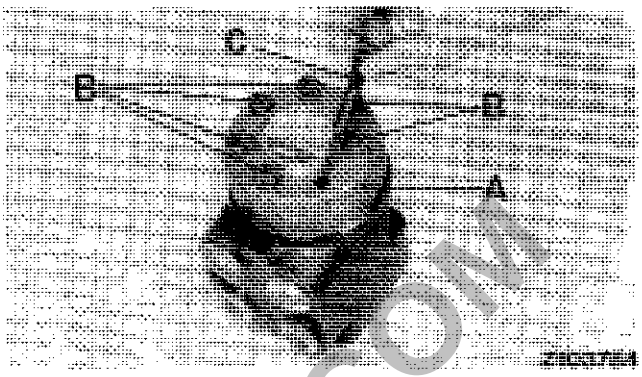
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Install Cover

Attach cover (A) with seven cap screws (B). Install cap screw with roll pin (C) in correct bore. Tighten cap screws to 30 to 35 Nm (22 to 25 ft-lb).



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SPECIFICATIONS

Hydraulic Pump

O.D. of gear shaft journals	17.40 mm (0.685 in.)
I.D. of gear shaft bearings	17.55 mm (0.691 in.)
Max. scoring on face of backplate	0.05 mm (0.002 in.)
I.D. of gear pocket in pump body	43.66 mm (1.719 in.)
Gear width	34.9 mm (1.374 in.)

HYDR-ZI37030AE-001085

TORQUES FOR HARDWARE

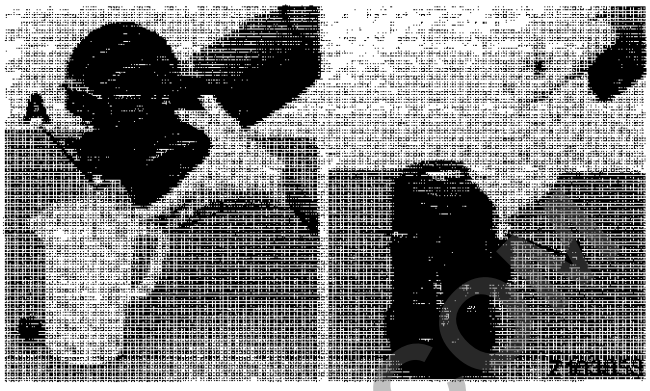
Special screws of hydrostatic reel drive motor	70 Nm (50 ft-lb)
Hydraulic pump screws	30 Nm (23 ft-lb)

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CHECK COMPRESSOR CHARGE



Compressor Oil Charge

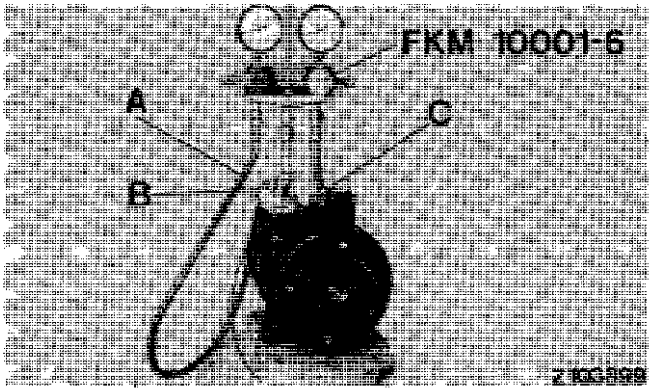
1. Drain compressor oil from suction port (A).

2. On a compressor, which has not been disassembled previously, fill 120 to 150 ml (4 to 5 fl.oz.) of refrigerant oil.
On a compressor, which has been disassembled previously, fill 150 to 180 ml (5 to 6 fl.oz.) of refrigerant oil.
Fill refrigerant oil into suction port (A).

3. Tip compressor to front and rear, then slowly roll compressor for 30 seconds.

Z103853-ZI29015AE-011084

Connect Manifold Gauge Set to Compressor



1. Clamp compressor as shown. Remove dust cap from drive pulley.

2. Remove valve caps from suction and discharge ports and install Adapter JT 03195 (C) and Adapter JT 03182 (B).

3. Connect low side hose (A) (blue) of manifold gauge kit to high side connection of compressor.
Suction port of the compressor remains open. Open the low pressure valve of gauge set.

NOTE: The low pressure gauge is connected to the high side for better pressure readings.

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REMOVING CUTTERBAR DRIVE CASE

The knife is driven by an enclosed "wobble joint" drive. All moving parts in the drive are enclosed and operate in 0.95 L (1 U.S. qt.) of John Deere SAE HD 85-140 Gear Lubricant.

1. Loosen belt (A) and slip it off drive case sheave.

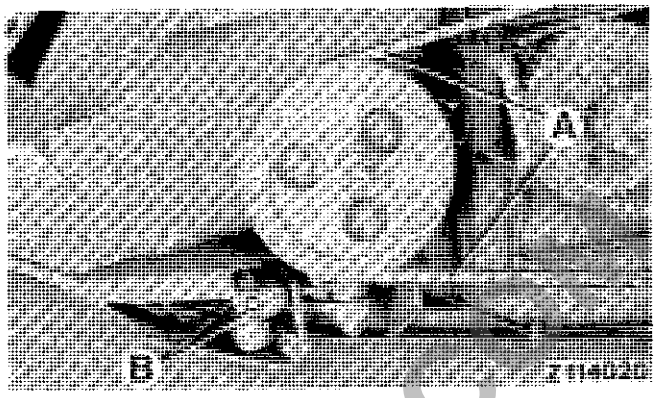
2. Remove two cap screws (B) attaching knife head to drive arm.

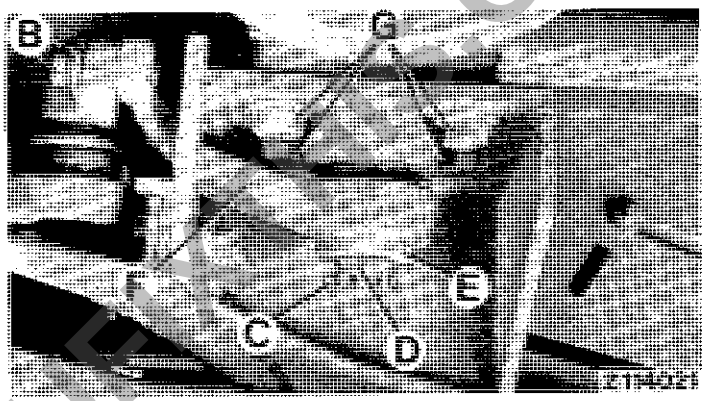
3. Remove cotter pin (C), slotted nut (D) and washer (E) and use a puller to pull drive arm (F) from shaft.

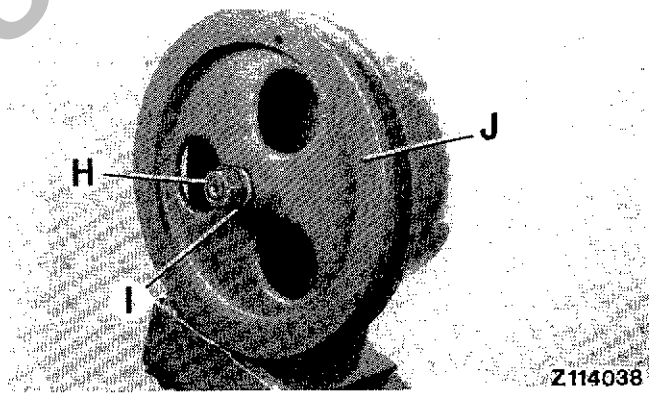
4. Remove four cap screws (G) and remove drive case from mounting.

5. Remove locking nut (H) and washer (I) and use a puller to pull sheave (J) from wobble shaft.

A–Belt
B–Cap screws
C–Cotter pin
D–Slotted nut
E–Washer
F–Drive arm
G–Hex. nuts
H–Locking nut
I–Washer
J–Sheave







Z114020,Z114021,Z114038-ZI410005AE-011187

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REMOVE UPPER UNIT

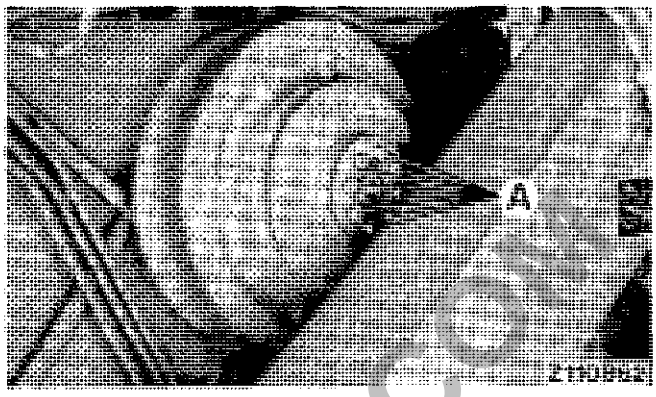
1. Loosen tailings elevator attaching screws and pull elevator away from combine as far as necessary.

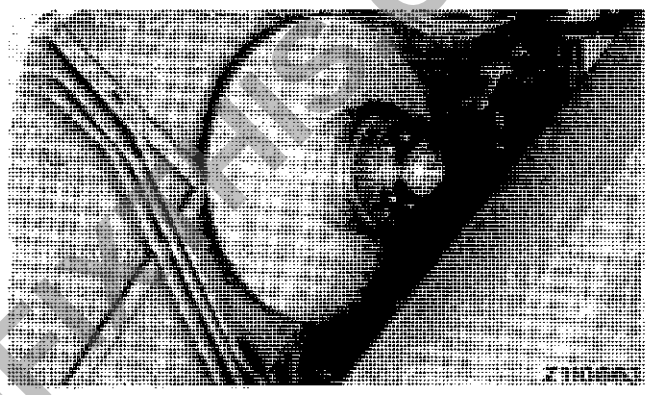
2. Remove drive belt.

3. Loosen attaching screws (A). Remove outer sheave half.

4. Unlock and remove shaft nut.

5. Remove remaining parts from shaft.





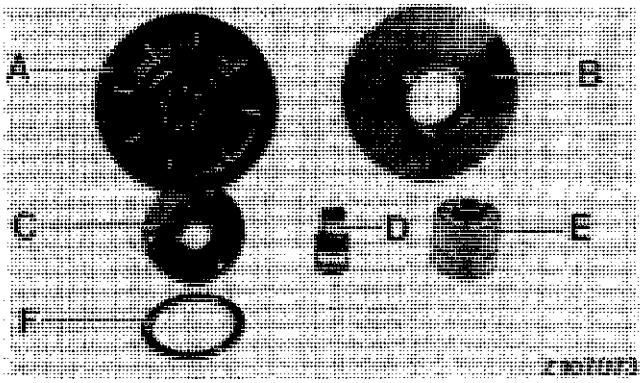
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REPAIR UPPER UNIT

Check sheaves and sliding surfaces of wiper seals for wear. Replace parts as necessary.
Check splines of hub and inner sheave half.

Make sure that sheave cylinder oil bore is not clogged.

IMPORTANT: Replace wiper seals, spiral back-up rings as well as sheave cylinder and bushings each time upper unit is disassembled for repair.



A–Outer sheave half
B–Inner sheave half
C–Piston
D–Sheave cylinder
E–Hub
F–Ring

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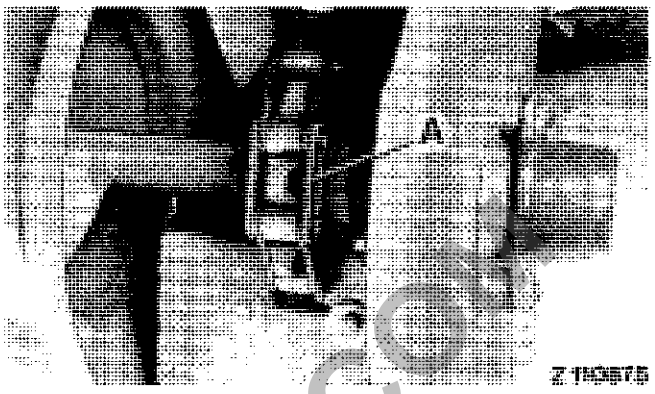
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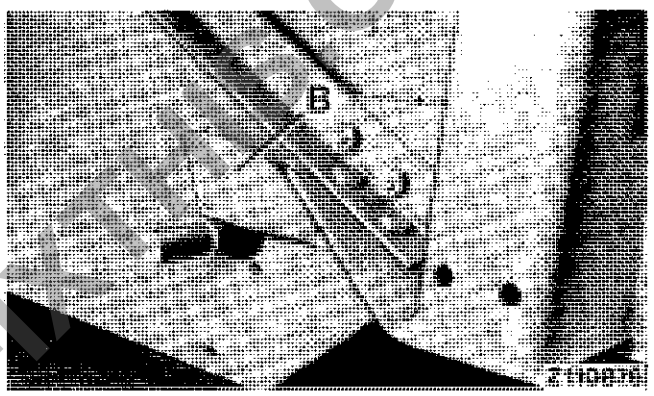
REMOVE LOWER TAILINGS AUGER

1. Slacken and remove elevator chain.

2. Remove clamping ring bearing with housing on right- and left-hand side.

3. Turn out tailings auger (B) to the left-hand side and at the same time pull off the chain sprocket from the shaft.



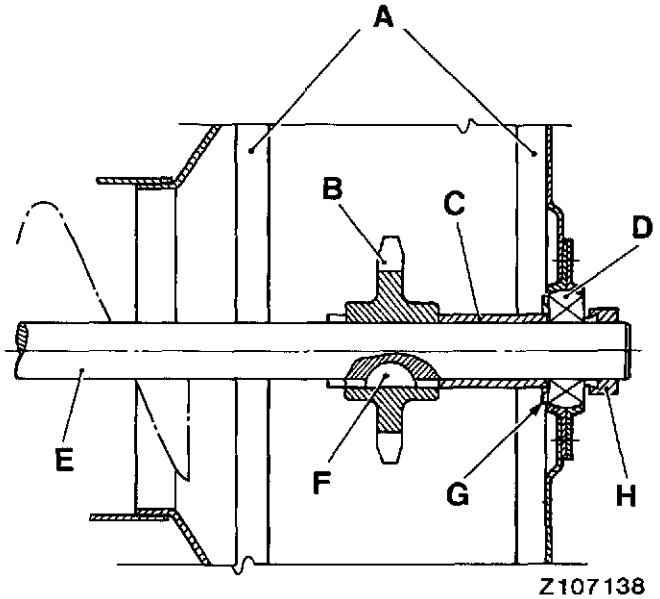


A – Chain connecting link
B – Tailings auger

Z110875,Z110876-ZI413005AE-001187

INSTALL LOWER TAILINGS AUGER

Install lower tailings auger in reverse sequence of removal and in accordance with illustration. Check that sprocket is centered in tailings elevator housing.



Z107138

A – Elevator housing
B – Sprocket
C – Spacer bushing
D – Bearing
E – Auger shaft
F – Key
G – Nilos-ring
H – Lock ring

Z107138-ZI313005AE-011085

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COMPONENTS IN CIRCUIT PLAN AND WIRING DIAGRAM, NUMERICAL (Contd.)

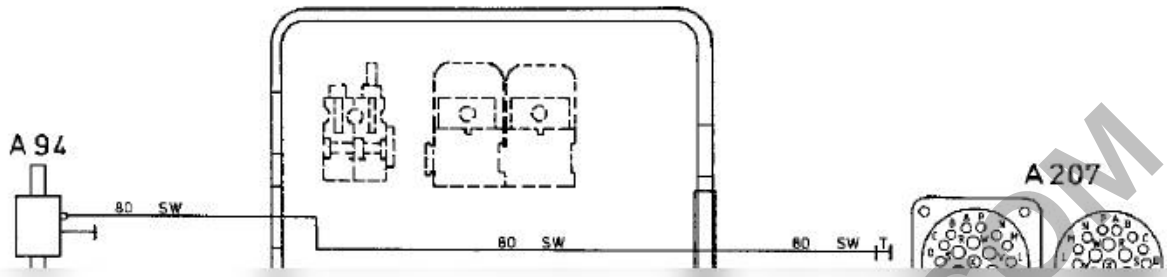
A151	Disconnect point (2 terminals), straw warning device, straw walkers (K1)
A153	Disconnect point (2 terminals), variable reel drive (K2)
A154	Disconnect point (2 x 12 terminals), platform wiring harness (K1, K2)
A155	Harvest performance monitor scale (S22; K5)
A156	Pre-amplifier (S22; K4)
A157	Straw walker sensor, r.h. (S22; K4)
A158	Straw walker sensor, l.h. (S22; K4)
A159	Sieve sensor, r.h. (S22; K4)
A160	Sieve sensor, l.h. (S22; K4)
A161	Indicator lights, grain tank (S23A; K5)
A162	Disconnect point (1 terminal), Dial-A-Matic (K7, K12)
A163	Disconnect point (1 terminal), ether starting aid switch (K7)
A164	Disconnect point (2 terminals), hydrostatic drive safety switch (K7)
A165	Ground terminal Dial-A-Matic
A166	Sending unit, grain tank filling gauge, 1/2 full (S23A; K1)
A167	Sending unit, grain tank filling gauge, 3/4 full (S23A; K1)
A168	Sending unit, grain tank filling gauge, full (S23A/B; K1)
A169	Time relay, grain tank filling gauge, (S23A; K1)
A170	Connector (5 terminals), light bar, sidehill (K1)
A171	Indicator lights, sidehill leveling system on combines with cab (S24A; K5)
A172	Indicator lights, sidehill leveling system on combines without cab (S24A; K8)
A173	Disconnect point (3 terminals), air conditioning system (K9)
A174	Pressure switch, brake booster (S24A; K8)
A175	Sidehill switch, manual/automatic control (S24A; K7)
A176	Sidehill switch, right/left (S24A; K7)
A177	Sidehill tilt limit switch, l.h. (S24A; K8)
A178	Sidehill tilt limit switch, r.h. (S24A; K8)
A179	Leveling system hydraulic valve, r.h. (S24A; K8)
A180	Leveling system hydraulic valve, l.h. (S24A; K8)
A181	Sidehill leveling control box (S24A; K8)
A182	Ground, engine distributor box (K9)
A183	Disconnect point (2 terminals), stop light switch (K2)
A184	Ground connection, fuse box (K1)
A185	Four wheel drive switch (S24B; K7)
A186	Solenoid, four wheel drive (S24B; K1)
A187	Disconnect point (2 terminals), starting aid (K9)
A188	Disconnect point (1 terminal), hydraulic oil filter sending unit (K9)
A189	Positive connection, engine distributor box (K9)
A190	Disconnect point (4 terminals), grain tank filling gauge (K1)
A191	Disconnect point (2 terminals), revolving hazard warning light (K1)
A192	Disconnect point (2 terminals), revolving hazard warning light (K1)
A193	Disconnect point (2 terminals), work light, grain tank (K1)
A194	Disconnect point (2 terminals), lighting according to local regulations (K1)
A195	Cab ground terminal (K6)
A196	Disconnect point (2 terminals), work light, r.h. (K2)
A197	Disconnect point (2 terminals), work light, l.h. (K2)
A198	Disconnect point (6 terminals), Dial-A-Matic (K12)
A199	Disconnect point (8 terminals), sidehill (K1, K8)
A200	Disconnect point (21 terminals), dash (K1, K7)

ELEK-ZI424010DE-010788

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DIAGRAM – FUEL TRANSFER PUMP, FUEL INJECTION PUMP (S9)



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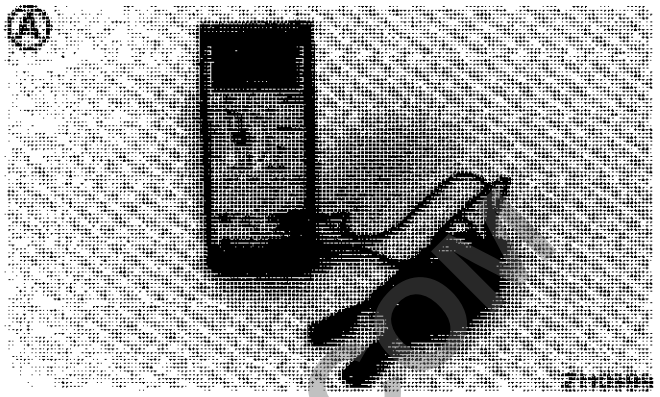
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CHECKING LOW SHAFT SPEED MONITOR SYSTEM

SPECIAL TOOLS

A–JT05682 Multimeter



Z110999-ZI424030AE-011187

SPECIFICATIONS

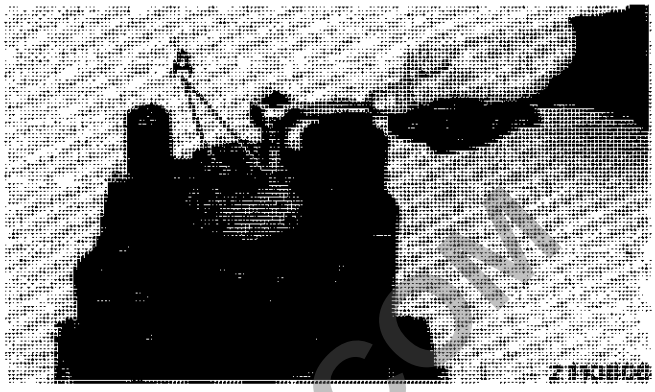
Sensor colour code at cross shaker	blue
Sensor colour code at tailings elevator	yellow
Sensor colour code at clean grain elevator	yellow
Sensor colour code at fan	green
Sensor colour code at straw chopper	red
Distance between sensor and sending unit	1 to 3 mm (0.04 to 0.12 in.)
Alarm at a shaft speed of less than:	
– Fan	300 rpm
– Tailings elevator	300 rpm
– Clean grain elevator	300 rpm
– Cross shaker	230 rpm
– Straw chopper	2175 rpm

DREHZ-ZI44015AE-011187

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DIAGNOSING MALFUNCTIONS



Combine Moves in One Direction Only

– Control linkage out of adjustment
– Defective high pressure relief valves
– Defective charge circuit check valves (A)
– Defective servo control valve
– Defective shuttle valve

Combine Will Not Move in Either Direction

– Adjusting cable of servo control valve loose or broken
– Drive shafts disconnected from transmission
– Oil level in reservoir too low
– Pump drive belt slipping
– Charge pressure too low

No Neutral Position

– Control linkage out of adjustment
– Defective servo control valve
– Defective variable pump

Insufficient Acceleration

– Oil filter clogged
– Charge pressure too low
– Defective servo control valve

Oil in Hydrostatic System Overheating

– Cooling system not working properly
– Oil level in reservoir too low
– High pressure relief valves activated too often

Z110808-ZI425025AE-011187

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PRESSURE RELIEF UNIT – NEUTRAL POSITION



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