Service Manual

515-40

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Section A - Attachments
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Section D - Controls
Section E - Hydraulics
Section F - Transmissions
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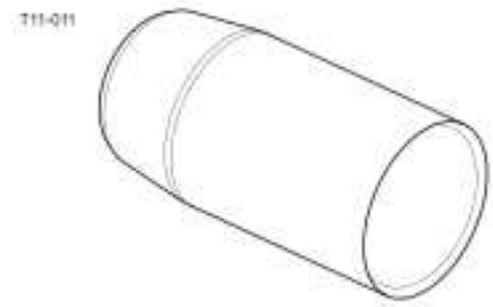


Fig 49. Ram Protection Sleeves

892/01016	For 25 mm Rod Diameter
892/01017	For 30 mm Rod Diameter
892/01018	For 40 mm Rod Diameter
892/01019	For 50 mm Rod Diameter
892/01020	For 50 mm Rod Diameter (slew ram)
892/01021	For 60 mm Rod Diameter
892/01022	For 60 mm Rod Diameter (slew ram)
892/01023	For 65 mm Rod Diameter
892/01024	For 70 mm Rod Diameter
892/01025	For 75 mm Rod Diameter
892/01026	For 80 mm Rod Diameter
892/00167	For 90 mm Rod Diameter



Fig 50. 892/00334 Ram Seal Fitting Tool



Fig 51. Hexagon Spanners for Ram Pistons and End Caps

992/09300	55mm A/F
992/09400	65mm A/F
992/09500	75mm A/F
992/09600	85mm A/F
992/09700	95mm A/F
992/09900	115mm A/F
992/10000	125mm A/F

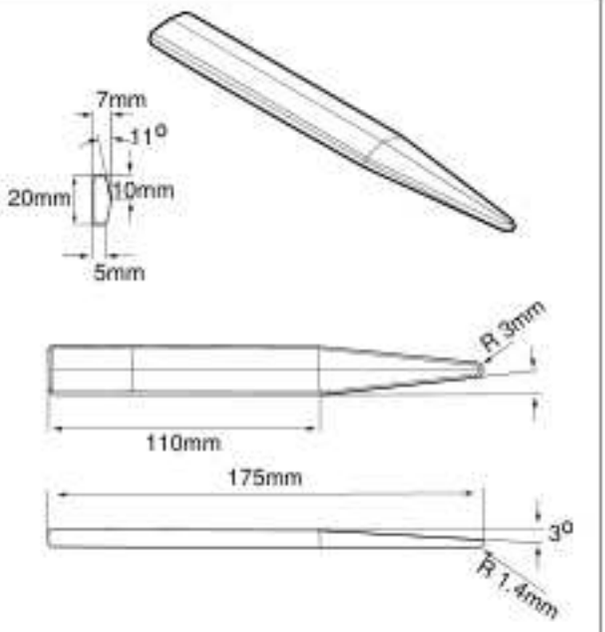


Fig 52. 892/01027 Piston Seal Assembly Tool

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Mainframe 332/U9467 Issue 1

Table 15. Key to Connectors

M001	Cab harness connector 1
M002	Cab harness connector 2
M006	Road light harness connector
M007	Reverse alarm
M008	Two speed solenoid
M009	Primary fuses 1 and 3
M010	Primary fuses 2 and 4
M011	Charge switch press
M012	Front washer pump
M013	Fan diode
M014	Earth
M015	LMI
M016	Air filter
M017	Right front road lights
M019	Forward solenoid
M020	Reverse solenoid
M021	Oil pressure switch
M022	Glow plugs
M023	Start solenoid
M024	Cold start sw
M025	Electrical Shut Off Solenoid (ESOS)
M026	Cold start solenoid
M027	Water temp switch
M028	Alternator B+
M029	Alternator D+ and lamp
M030	Start B+
M031	Rear washer pump
M032	Engine fan

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Main Relief Valve (MRV) Operation

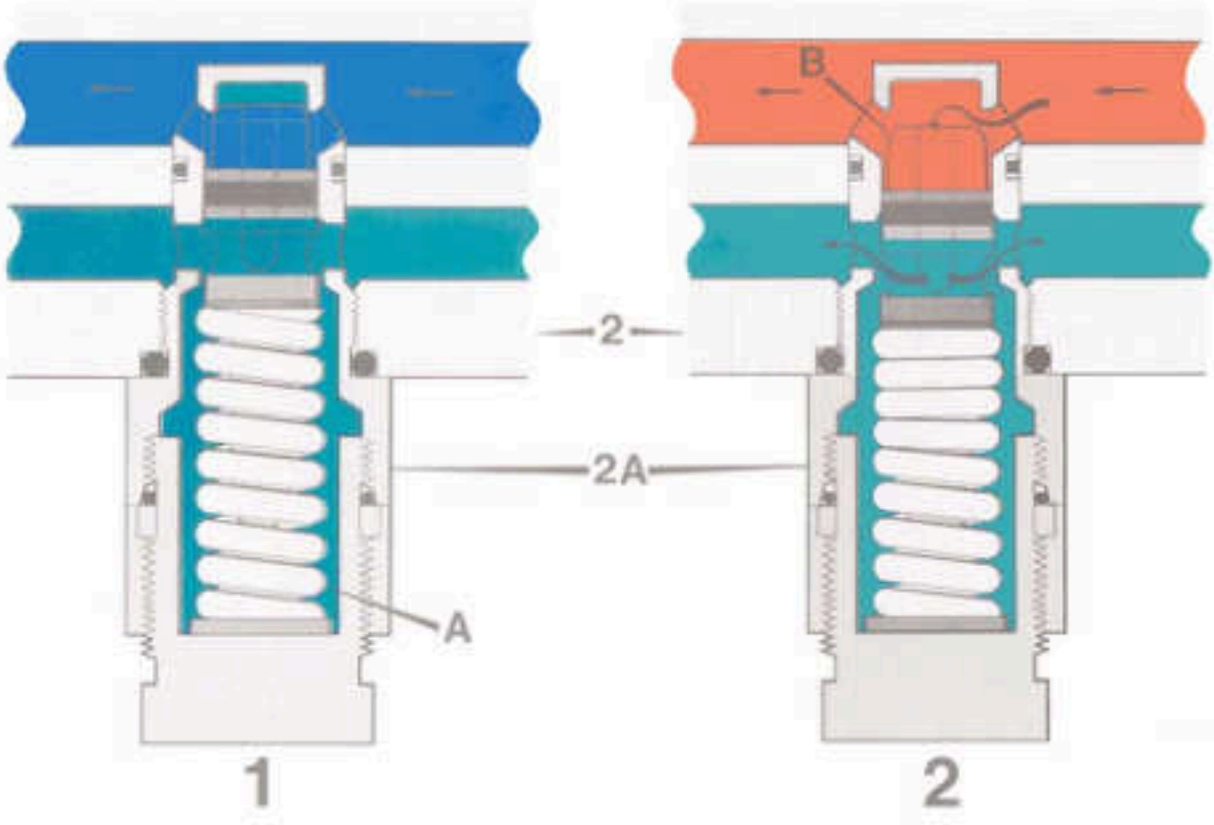


Fig 5.

The main relief valve (MRV) **2A** is situated in the control valve **2**, bridging the neutral and exhaust galleries, and is designed to prevent the circuitry from damage that could be caused by excessive pressures.

1 Valve at Rest:

The services are in neutral and pressure in the neutral gallery (blue) is not sufficient to operate the MRV which is held closed by its spring **A.**

2 Poppet Opens:

A service has been selected and the pressure generated exceeds the setting of the MRV Pressure acts on the periphery of the hollow poppet **B** which is forced downwards against the spring, venting pressure into the exhaust gallery (green).

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MM2	Interior light
MR	Earth
MS1	Roof wiper
MS2	Roof wiper

Table 6. Cab Roof Harness (rear work light option)

Key to Connectors:	
MA	Panel harness
MB	Panel harness speaker
MC1	Right speaker
MC2	Right speaker
MD1	Left speaker
MD2	Left speaker
ME	Rear wiper motor
MF	Beacon
MG	Left front work light
MH	Right front work light
MJ	Horn
MM1	Interior light
MM2	Interior light
MP	Right rear work light
MR	Earth
MS1	Roof wiper
MS2	Roof wiper
MW	Reverse light

AM06	Cab harness connector
AM07	Battery

Table 8. Cab Air Con Harness

Key to Connectors:	
AC01	Condenser fan relays
AC02-1	Thermostat 1
AC02-2	Thermostat 2
AC03	Air conditioning switch
AC04	Heater switch
AC05	Roof fans
AC06	Mainframe harness connector
AC07	Earth

Table 9. 'S' Splices

SA	⇨ *Fig 7. (C-12)*
SB	⇨ *Fig 4. (C-9)*
SC	⇨ *Fig 4. (C-9)*
SC01	⇨ *Fig 2. (C-7)*
SC02	⇨ *Fig 1. (C-6)*
SC03	⇨ *Fig 2. (C-7)*
SC04	⇨ *Fig 7. (C-12)*
SC05	⇨ *Fig 7. (C-12)*
SC06	⇨ *Fig 7. (C-12)*
SC07	⇨ *Fig 4. (C-9)*
SC08	⇨ *Fig 4. (C-9)*
SC09	⇨ *Fig 4. (C-9)*
SC10	⇨ *Fig 4. (C-9)*
SC11	⇨ *Fig 3. (C-8)*
SC12	⇨ *Fig 4. (C-9)*
SC13	⇨ *Fig 3. (C-8)*
SC14	⇨ *Fig 1. (C-6)*
SC15	⇨ *Fig 4. (C-9)*
SC16	⇨ *Fig 3. (C-8)*
SC17	⇨ *Fig 4. (C-9)*
SC18	⇨ *Fig 4. (C-9)*
SE	⇨ *Fig 5. (C-10)*
SM01	⇨ *Fig 1. (C-6)*
SM03	⇨ *Fig 4. (C-9)*
SM04	⇨ *Fig 4. (C-9)*
SM05	⇨ *Fig 1. (C-6)*
SM06	⇨ *Fig 7. (C-12)*
SM07	⇨ *Fig 7. (C-12)*
SM08	⇨ *Fig 7. (C-12)*
SM12	⇨ *Fig 1. (C-6)*
SM13	⇨ *Fig 3. (C-8)*
SR01	⇨ *Fig 4. (C-9)*
SR02	⇨ *Fig 4. (C-9)*
SR03	⇨ *Fig 4. (C-9)*
SR04	⇨ *Fig 4. (C-9)*
SR05	⇨ *Fig 4. (C-9)*
SR06	⇨ *Fig 4. (C-9)*
SR07	⇨ *Fig 7. (C-12)*

Table 7. Mainframe Air Con Harness

Key to Connectors:	
AM01-1	Binary switch 1
AM01-2	Binary switch 2
AM02	Compressor
AM04	Condenser fan 1
AM05	Condenser fan 2

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