

Hydraulic circuit diagram - travel drive

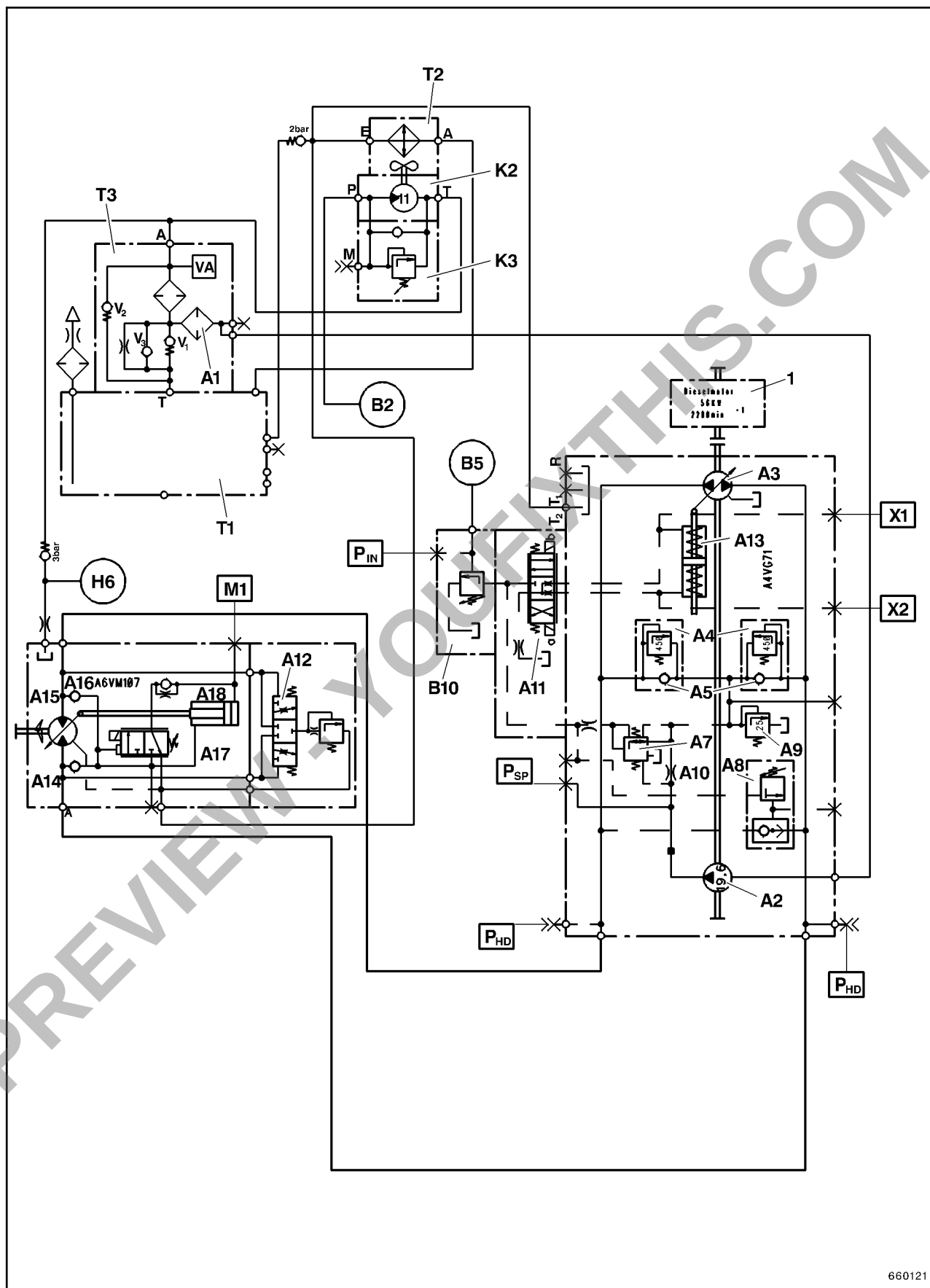
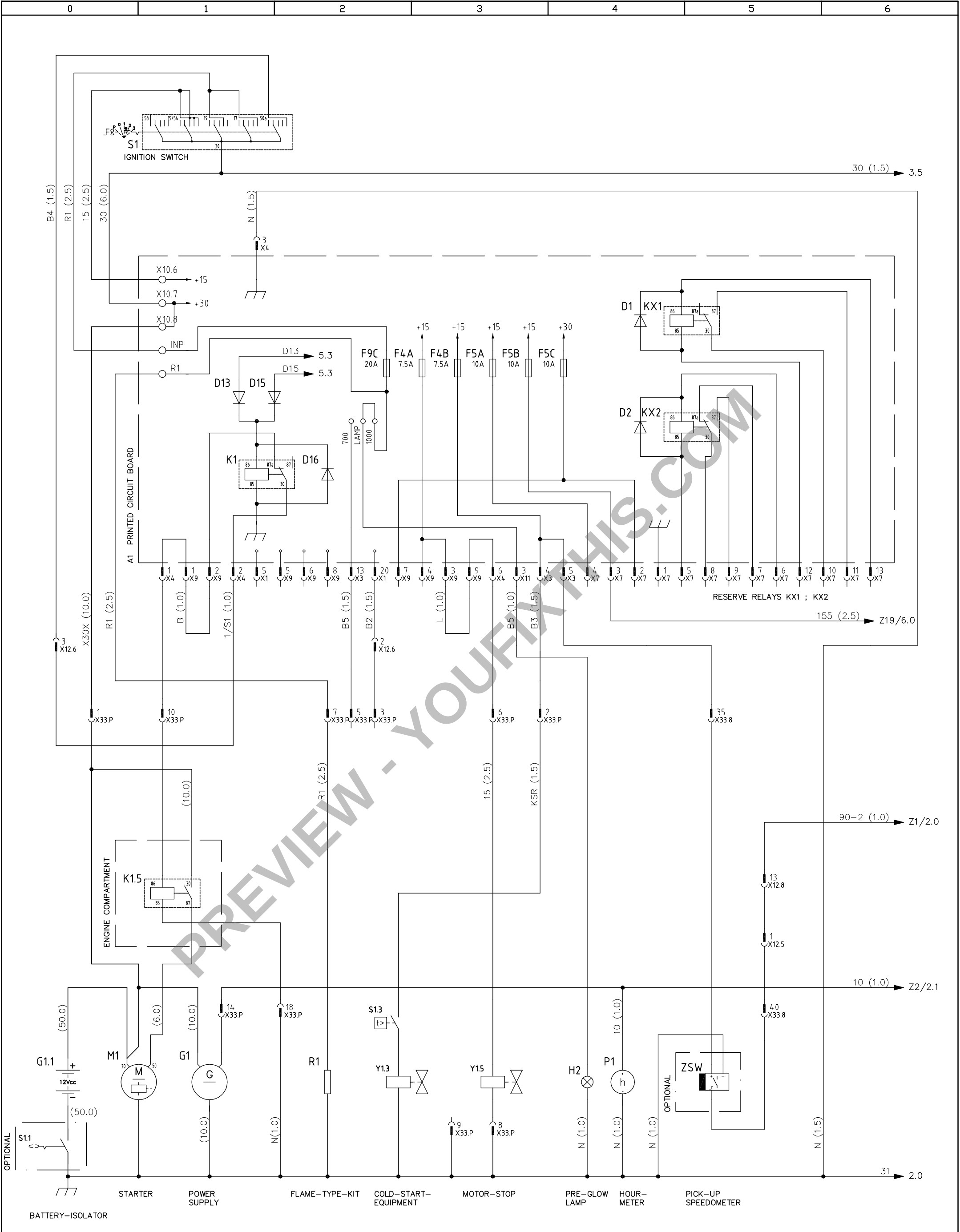


Fig. 2



04				Datum/Date	Name
04				Bearb./Written	04.08.00 SIK
02				Gepr./Checked	
01	---	02.05.01	SIK	Norm/St.Check	
Ind.	Änd.-Nr./Change-No	Datum/Date	Name	Bearb.Abt./Written department	G3350

958	32	050	50	 Drenstein & Koppel Aktiengesellschaft	Benennung/Description WIRING DIAGRAM ENGINE	Sach-Nr. Part-No 3004820	A4	Blatt Sheet 1
Typ	BG	UBG	CH				F.K. D.S.No	15 Blätter Sheets
80WKZ W80H				Urspr./Origin.	Full manual at youfixthis.com	Ers. für Substitut for	Ers. durch Substituted	

Adjusting work at the hydrostatic travel drive

2800479

For all testing and adjusting work on the travel drive, the hydraulic oil temperature must be ca. 60 - 70°C.

Mechanical zero position

The mechanical zero position is not normally self-adjusting. Control or adjustment is therefore necessary only when:

- the pump has been dismantled and reassembled,
- the operator complains that the loader, despite the travel direction switch being set to neutral position, is moving in one direction. In this case, however, the functioning of the travel direction switch and the electromagnetically activated switching valve (A11) should **first** be checked.

To check the mechanical zero position, a pressure gauge (measuring range 600 bars) must be connected to both measuring points for the high pressure at travelling (P_{HD}).

N.B.:

The machine must now be secured with appropriate measures against forward or reverse movement. The safety instructions must be observed.

The engine is started up, the travel direction switch is set to neutral.

The zero position is adjusted at the displacement cylinder (A13, Figs. 5 and 6).

After slackening the lock nut (A13, Part 9) the centering rod (A13, Part 5) is turned with a socket wrench 5 mm until the same pressure (in this case feed pressure) is read off at both measuring points (Fig. 5, P_{HD}).

After adjustment, the centering rod (A13, Part 5) must be secured with the lock nut (A13, Part 9).

The mechanical zero position is set.

Checking and adjusting high pressure at travelling

The high pressure at travelling (P_{HD}) is limited both by the high-pressure relief valves (A4) and by the pressure cutout (A8).

N.B.:

The maximum high pressure is attained only if the displacement switchover at the hydraulic motor (A15) is prevented. For this purpose the regulation threshold adjusting screw (A15, Part 2) must be **untuned** by ca. 3 turns. On completion of work, the regulation threshold of the hydraulic motor must be reset. For all high-pressure measurements, transmission range 2 (driving) must be selected at the travel direction lever.

If resetting of the regulation threshold of the engine is to be avoided, a pressure drop due to spinning wheels can generally also be avoided by applying the parking brake as far as the limit stop and preventing the travel drive from being switched off with the handbrake switch.

Schrauben mit Regelgewinde nach DIN 13 - 13**Bolts with standard thread DIN 13 - 13**

Gewinde- Nenn Ø Thread nominal Ø	Festigkeits- klasse Material quality	Anziehdrehmomente M _A in Nm Tightening torques M _A in Nm		
		gesamt total 0,10 ¹⁾	gesamt total 0,12 ²⁾	gesamt total 0,16 (L) ³⁾
M 5	8.8	4,9	5,5	6,5
	10.9	7,3	8,1	9,5
	12.9	8,5	9,5	11,2
M 6	8.8	8,5	9,5	11,2
	10.9	12,5	14	16,5
	12.9	14,5	16,5	19,5
M 8	8.8	20,5	23	27
	10.9	30	34	40
	12.9	35	40	47
M 10	8.8	41	46	55
	10.9	60	68	80
	12.9	71	79	94
M 12	8.8	71	79	94
	10.9	104	117	140
	12.9	195	215	260
M 16	8.8	170	195	230
	10.9	250	280	340
	12.9	300	330	400
M 20	8.8	350	390	470
	10.9	490	560	670
	12.9	580	650	780
M 24	8.8	600	670	800
	10.9	850	960	1140
	12.9	1000	1120	1350
M 30	8.8	1190	1350	1600
	10.9	1700	1900	2300
	12.9	2000	2250	2700
M 36	8.8	2100	2350	2800
	10.9	3000	3300	4000
	12.9	3500	3900	4700

¹⁾ Schraube und/oder Mutter galvanisch verzinkt (A3B).
Screw and/or nut electro-galvanized.

²⁾ Schraube schwarz vergütet oder phosphatiert, Gewinde geölt.
Screw black-plated or phosphatized, thread oiled.

³⁾ Schrauben mit flüssiger Schraubensicherung z.B. Loctite 242, 243.
Screws with liquid screw fixer, e.g. Loctite 242, 243.

SERVICE DATA W80

Engine

2905275

	Unit	W80 No. 513 061 -
Manufacturer and model		Perkins 1004.42
Rated output DIN 70 020 (at rated speed)	kW	56
Rated speed (at full load)	rpm	2200
Idling speed	rpm	860 ⁺⁵⁰
High idling speed	rpm	2350 ^{±50}
Firing sequence		1,3,4,2
Direction of rotation		Anti-clockwise when looking at flywheel
Valve clearance: inlet and exhaust (engine cold)	mm / mm	0.20 / 0.45
Compression pressure	bar	17.25 : 1
Oil pressure	bar	2.8

01 General

02 Service data

03 Engine

04 Travel drive

05 Axles

06 Steering

07 Brakes

08 Working hydraulic

09 Electrical system

10 Frame

11 Fittings, pipes and hoses

12 Sealing, protective, testing and cleaning agents

FUNDAMENTAL SAFETY INSTRUCTIONS

2800455

Warnings and symbols

The following signs are used in the manual to designate instructions of particular importance:

	Precautionary rules and measures designed to protect the machine operator and other persons from life-threatening danger or injuries and to prevent extensive damage.
	Information and precautionary measures designed to prevent damage to the machine or other property.

□

Danger in the event of non-observance of the safety instructions



This wheel loader has been built in accordance with state-of-the-art standards and the recognized safety rules.

However, operating the machine if a fault is suspected or has occurred, or carrying out repair work inexpertly may

- endanger the lives of persons in contact with it
- damage the machine and other property.

The wheel loader must be stopped immediately on any damage being suspected or occurring to ensure that the safety of the operator, of other persons at the place of use or of other material property is not compromised.

All components are carefully co-ordinated. Trouble-free operation and a long service life can only be achieved with original spare parts.

□

PREVIEW - YOUFIXTHIS.COM

SERVICE DATEN ALLGEMEIN / SERVICE DATEN GENERAL

Nm	0	1	2	3	4	5	6	7	8	9
1410	1039.959	1040.697	1041.435	1042.172	1042.910	1043.647	1044.385	1045.122	1045.860	1046.597
1420	1047.335	1048.073	1048.810	1049.548	1050.285	1051.023	1051.760	1052.498	1053.236	1053.973
1430	1054.711	1055.448	1056.186	1056.923	1057.661	1058.398	1059.136	1059.874	1060.611	1061.349
1440	1062.086	1062.824	1063.561	1064.299	1065.036	1065.774	1066.512	1067.249	1067.987	1068.724
1450	1069.462	1070.199	1070.937	1071.675	1072.412	1073.150	1073.887	1074.625	1075.362	1076.100
1460	1076.837	1077.575	1078.312	1079.050	1079.788	1080.525	1081.263	1082.000	1082.738	1083.476
1470	1084.213	1084.951	1085.688	1086.426	1087.163	1087.901	1088.638	1089.376	1090.114	1090.851
1480	1091.589	1092.326	1093.064	1093.801	1094.539	1095.276	1096.014	1096.751	1097.489	1098.227
1490	1098.964	1099.702	1100.439	1101.177	1101.915	1102.652	1103.390	1104.127	1104.865	1105.602
1500	1106.340	1107.077	1107.815	1108.552	1109.290	1110.028	1110.765	1111.503	1112.240	1112.978
1510	1113.715	1114.453	1115.191	1115.928	1116.666	1117.403	1118.141	1118.878	1119.616	1120.354
1520	1121.091	1121.829	1122.566	1123.304	1124.041	1124.779	1125.516	1126.254	1126.991	1127.729
1530	1128.467	1129.204	1129.942	1130.679	1131.417	1132.155	1132.892	1133.630	1134.367	1135.105
1540	1135.842	1136.580	1137.317	1138.055	1138.792	1139.530	1140.268	1141.005	1141.743	1142.480
1550	1143.218	1143.955	1144.693	1145.430	1146.168	1146.906	1147.643	1148.381	1149.118	1149.856
1560	1150.594	1151.331	1152.069	1152.806	1153.544	1154.281	1155.019	1155.756	1156.494	1157.231
1570	1157.969	1158.707	1159.444	1160.182	1160.919	1161.657	1162.394	1163.132	1163.870	1164.607
1580	1165.345	1166.082	1166.820	1167.557	1168.295	1169.032	1169.770	1170.508	1171.245	1171.983
1590	1172.720	1173.458	1174.195	1174.933	1175.670	1176.408	1177.146	1177.883	1178.621	1179.358
1600	1180.096	1180.833	1181.571	1182.309	1183.046	1183.784	1184.521	1185.259	1185.996	1186.734
1610	1187.471	1188.209	1188.947	1189.684	1190.422	1191.159	1191.897	1192.634	1193.372	1194.109
1620	1194.847	1195.585	1196.322	1197.060	1197.797	1198.535	1199.272	1200.010	1200.748	1201.485
1630	1202.223	1202.960	1203.698	1204.435	1205.173	1205.910	1206.648	1207.385	1208.123	1208.861
1640	1209.598	1210.336	1211.073	1211.811	1212.549	1213.286	1214.024	1214.761	1215.499	1216.236
1650	1216.974	1217.711	1218.449	1219.187	1219.924	1220.662	1221.399	1222.137	1222.874	1223.612
1660	1224.349	1225.087	1225.824	1226.562	1227.300	1228.037	1228.775	1229.512	1230.250	1230.988
1670	1231.725	1232.463	1233.200	1233.938	1234.675	1235.413	1236.150	1236.888	1237.625	1238.363
1680	1239.101	1239.838	1240.576	1241.313	1242.051	1242.788	1243.526	1244.264	1245.001	1245.739
1690	1246.476	1247.214	1247.951	1248.689	1249.427	1250.164	1250.902	1251.639	1252.377	1253.114
1700	1253.852	1254.589	1255.327	1256.064	1256.802	1257.540	1258.277	1259.015	1259.752	1260.490
1710	1261.228	1261.965	1262.703	1263.440	1264.178	1264.915	1265.653	1266.390	1267.128	1267.865
1720	1268.603	1269.341	1270.078	1270.816	1271.553	1272.291	1273.028	1273.766	1274.503	1275.241
1730	1275.979	1276.716	1277.454	1278.191	1278.929	1279.667	1280.404	1281.142	1281.879	1282.617
1740	1283.354	1284.092	1284.829	1285.567	1286.304	1287.042	1287.780	1288.517	1289.255	1289.992
1750	1290.730	1291.467	1292.205	1292.943	1293.680	1294.418	1295.155	1295.893	1296.630	1297.368
1760	1298.105	1298.843	1299.581	1300.318	1301.056	1301.793	1302.531	1303.268	1304.006	1304.743
1770	1305.481	1306.219	1306.956	1307.694	1308.431	1309.169	1309.906	1310.644	1311.382	1312.119
1780	1312.857	1313.594	1314.332	1315.069	1315.807	1316.544	1317.282	1318.020	1318.757	1319.495
1790	1320.232	1320.970	1321.707	1322.445	1323.182	1323.920	1324.657	1325.395	1326.133	1326.870
1800	1327.608	1328.345	1329.083	1329.821	1330.558	1331.296	1332.033	1332.771	1333.508	1334.246
1810	1334.983	1335.721	1336.458	1337.196	1337.934	1338.671	1339.409	1340.146	1340.884	1341.622
1820	1342.359	1343.097	1343.834	1344.572	1345.309	1346.047	1346.784	1347.522	1348.260	1348.997
1830	1349.735	1350.472	1351.210	1351.947	1352.685	1353.422	1354.160	1354.897	1355.635	1356.373
1840	1357.110	1357.848	1358.585	1359.323	1360.061	1360.798	1361.536	1362.273	1363.011	1363.748
1850	1364.486	1365.223	1365.961	1366.698	1367.436	1368.174	1368.911	1369.649	1370.386	1371.124
1860	1371.861	1372.599	1373.337	1374.074	1374.812	1375.549	1376.287	1377.024	1377.762	1378.500
1870	1379.237	1379.975	1380.712	1381.450	1382.187	1382.925	1383.662	1384.400	1385.137	1385.875
1880	1386.613	1387.350	1388.088	1388.825	1389.563	1390.301	1391.038	1391.776	1392.513	1393.251
1890	1393.988	1394.726	1395.463	1396.201	1396.938	1397.676	1398.414	1399.151	1399.889	1400.626
1900	1401.364	1402.101	1402.839	1403.576	1404.314	1405.052	1405.789	1406.527	1407.264	1408.002
1910	1408.740	1409.477	1410.215	1410.952	1411.690	1412.427	1413.165	1413.902	1414.640	1415.377
1920	1416.115	1416.853	1417.590	1418.328	1419.065	1419.803	1420.540	1421.278	1422.016	1422.753
1930	1423.491	1424.228	1424.966	1425.703	1426.441	1427.178	1427.916	1428.654	1429.391	1430.129
1940	1430.866	1431.604	1432.341	1433.079	1433.816	1434.554	1435.292	1436.029	1436.767	1437.504
1950	1438.242	1438.979	1439.717	1440.455	1441.192	1441.930	1442.667	1443.405	1444.142	1444.880
1960	1445.617	1446.355	1447.093	1447.830	1448.568	1449.305	1450.043	1450.780	1451.518	1452.255
1970	1452.993	1453.730	1454.468	1455.206	1455.943	1456.681	1457.418	1458.156	1458.894	1459.631
1980	1460.369	1461.106	1461.844	1462.581	1463.319	1464.056	1464.794	1465.531	1466.269	1467.007
1990	1467.744	1468.482	1469.219	1469.957	1470.695	1471.432	1472.170	1472.907	1473.645	1474.382
2000	1475.120	1475.857	1476.595	1477.333	1478.070	1478.808	1479.545	1480.283	1481.020	1481.758
2010	1482.495	1483.233	1483.970	1484.708	1485.446	1486.183	1486.921	1487.658	1488.396	1489.134
2020	1489.871	1490.609	1491.346	1492.084	1492.821	1493.559	1494.296	1495.034	1495.771	1496.509
2030	1497.247	1497.984	1498.722	1499.459	1500.197	1500.934	1501.672	1502.409	1503.147	1503.885
2040	1504.622	1505.360	1506.097	1506.835	1507.573	1508.310	1509.048	1509.785	1510.523	1511.260
2050	1511.998	1512.735	1513.473	1514.210	1514.948	1515.686	1516.423	1517.161	1517.898	1518.636
2060	1519.374	1520.111	1520.849	1521.586	1522.324	1523.061	1523.799	1524.536	1525.274	1526.011
2070	1526.749	1527.487	1528.224	1528.962	1529.699	1530.437	1531.174	1531.912	1532.649	1533.387
2080	1534.125	1534.862	1535.600	1536.337	1537.075	1537.812	1538.550	1539.288	1540.025	1540.763
2090	1541.500	1542.238	1542.975	1543.713	1544.450	1545.188	1545.926	1546.663	1547.401	1548.138
2100	1548.876	1549.613	1550.351	1551.089	1551.826	1552.564	1553.301	1554.039	1554.776	1555.514

PREVIEW - YOUFIXTHIS.COM

High-pressure relief valve (A4), deblockable

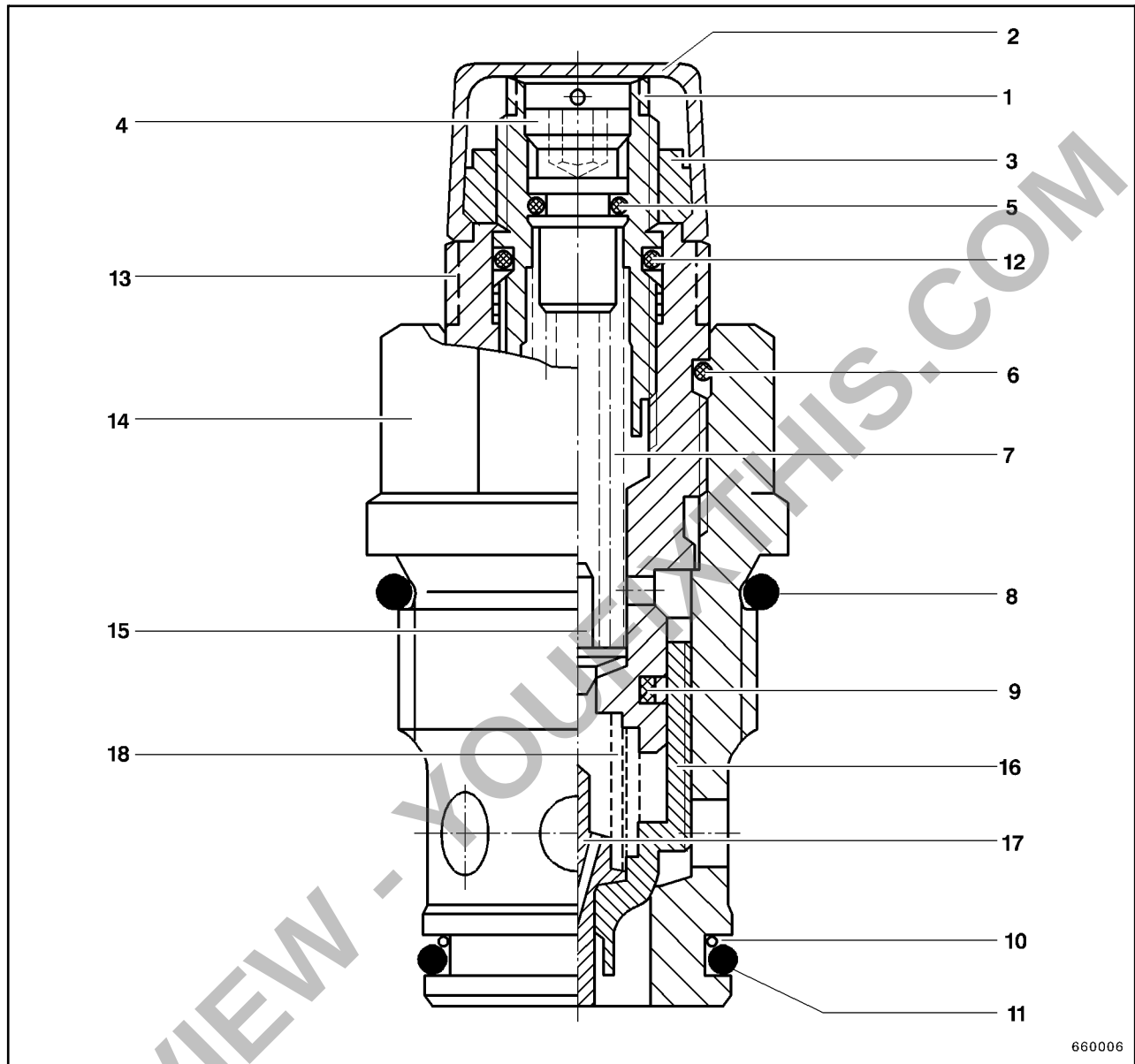
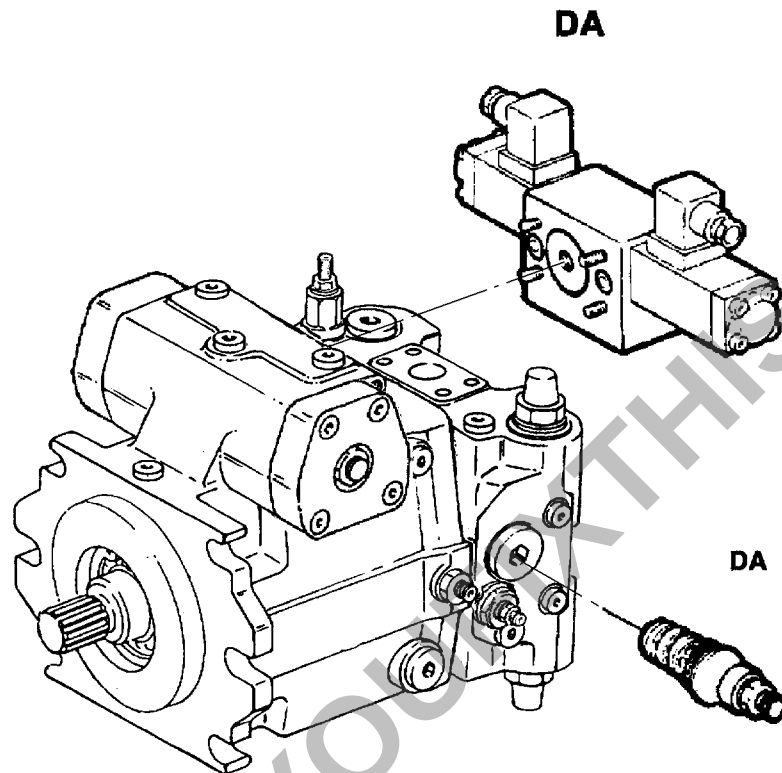


Fig. 7

Parts Fig. 7

- | | | | |
|------|--|------|------------------------------|
| 1 - | Adjusting screw SW 11 | 12 - | O-Ring |
| 2 - | Cap | 13 - | Screw plug SW 22 / 100 Nm |
| 3 - | Lock nut SW 19 / 20 Nm | 14 - | Valve housing SW 32 / 150 Nm |
| 4 - | Bypass set screw loosen by 3 turns with tool size SW 4 / 10 Nm | 15 - | Pilot piston |
| 5 - | O-ring | 16 - | Piston |
| 6 - | Sealing ring | 17 - | Restrictor needle |
| 7 - | Spring | 18 - | Spring |
| 8 - | O-ring | | |
| 9 - | Piston seal | | |
| 10 - | Retaining ring | | |
| 11 - | O-ring | | |

□



Ansteuergerät abbauen.

Remove control device.

Hinweis:

NG 71: Abdichtung der Ansteuergeräte wie NG 40 - 56
mit Flachdichtung.

Achtung!

Korrekte hydraulische Nullageneinstellung überprüfen.

Note:

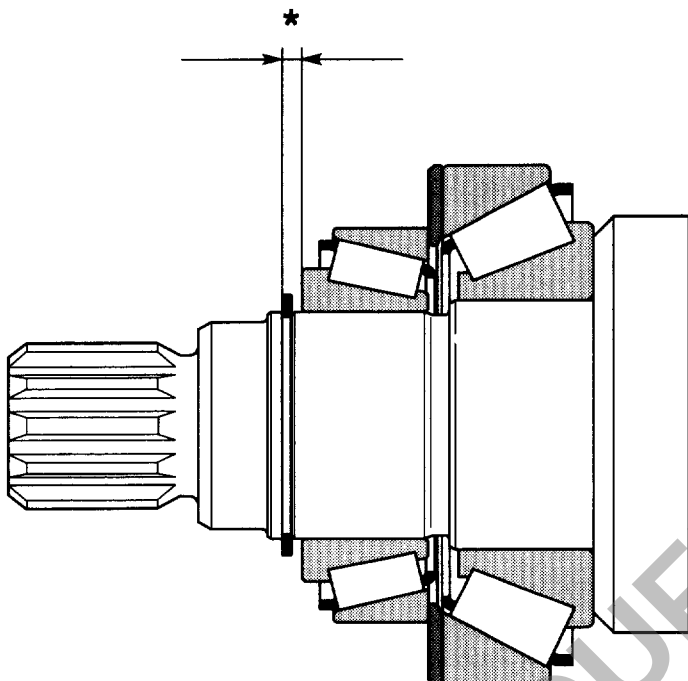
Size 71: Sealing of control device as size 40 - 56
with flat seal.

Attention!

Check correct hydraulic 0-position.

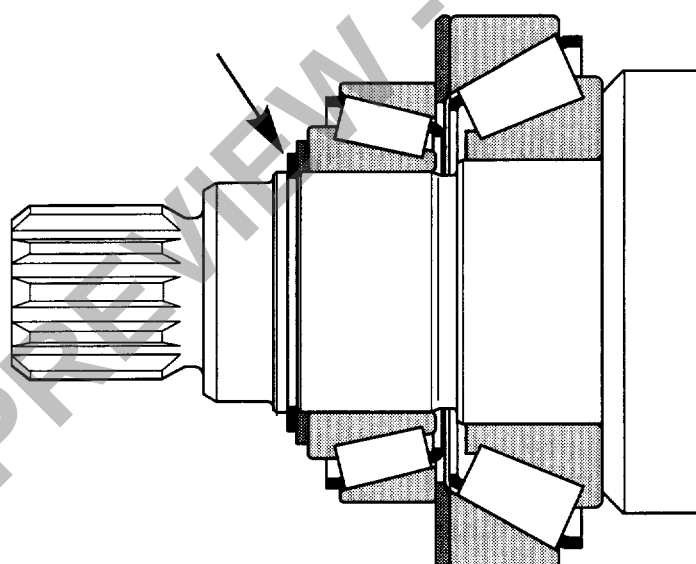
PREVIEW - YOUFIXTHIS.COM

Triebwelle: mechanischer Teil
Rotary group: mechanical part



Sicherungsring montieren.
Maß * für Abstimmsscheibe mit
Endmaßen ermitteln (überkreuz).

Assemble safety ring.
Determine dimension for
adjustment disc with final
dimensions (crossover).



Abstimmsscheibe einbauen.
Sicherungsring montieren.
Triebwelle einbaufertig.

Install adjustment disc.
Assemble safety ring.
Drive shaft ready for assembly.

Front Axle Drawing

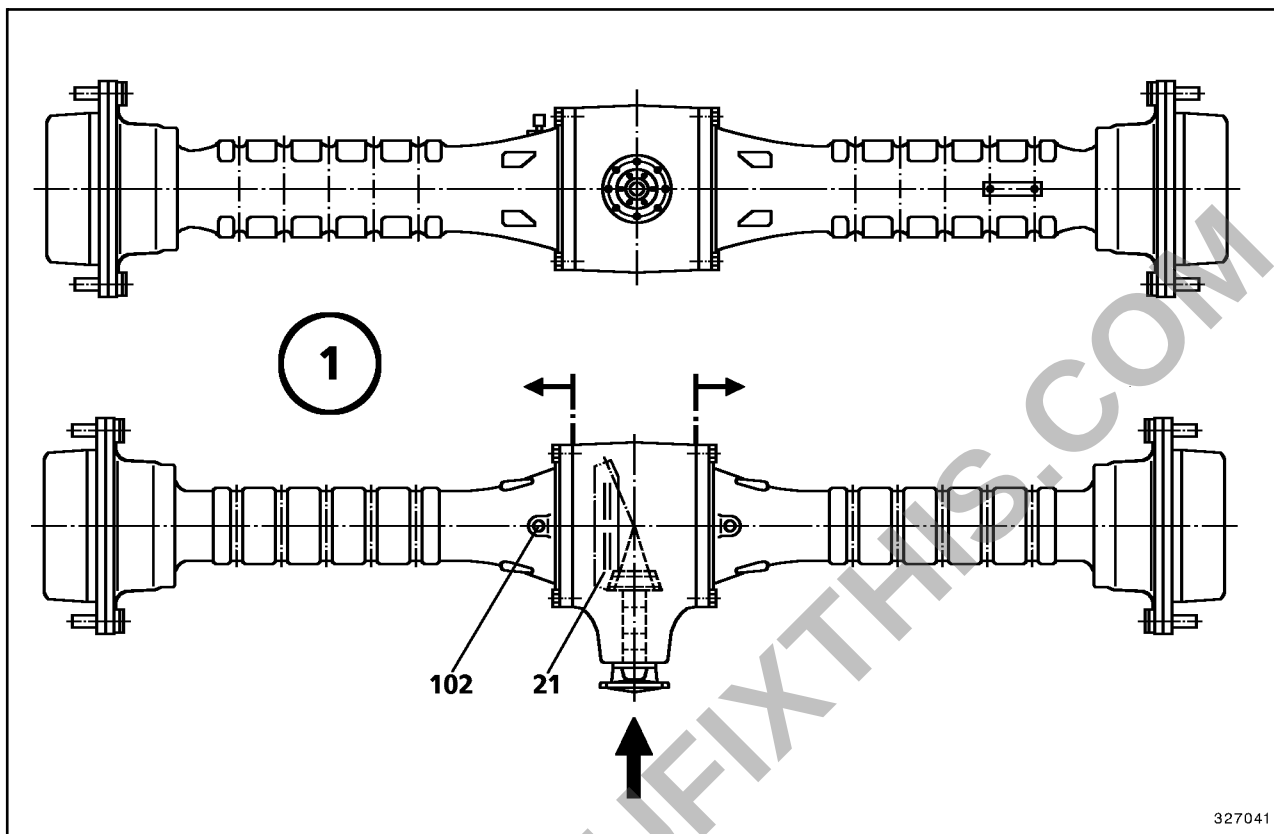


Fig. 9

Rear Axle Drawing

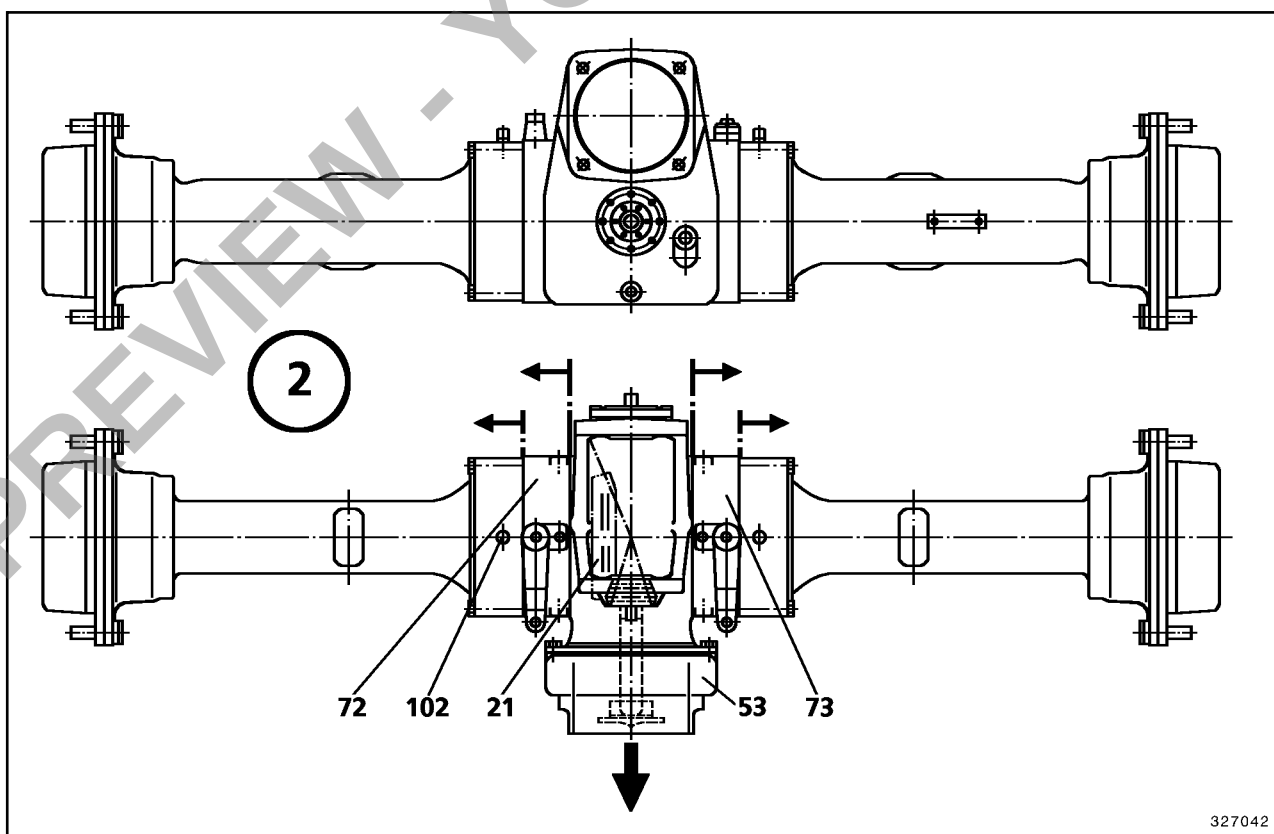


Fig. 10

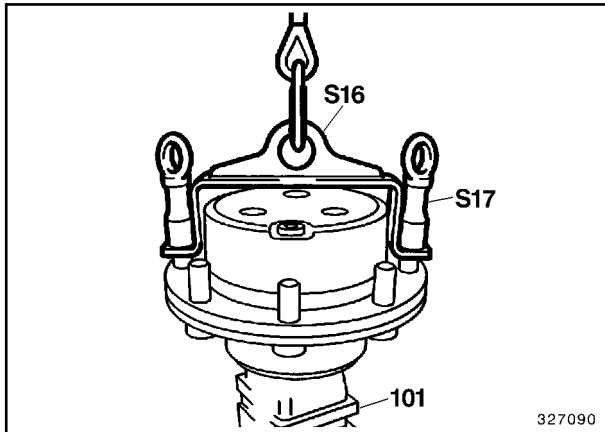


Fig. 60

Lift right-hand axle tube (101) with pre-assembled wheel hub.

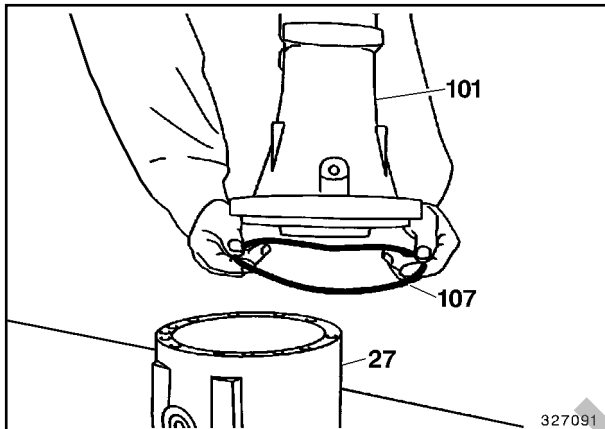


Fig. 61

Put O-ring (107) on flange of axle tube (101).

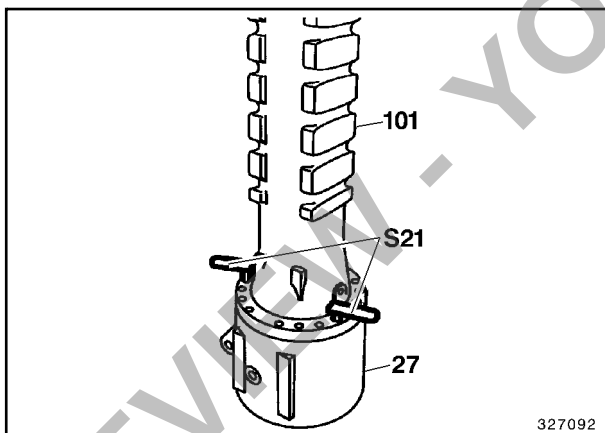


Fig. 62

Slip over axle tube (101). Prior to dismantling, mind marks made on axle housing (27) and axle tube (101).

Align axle tube (101) with two guide pins (S21) so that mounting surfaces will later be in parallel with second axle tube.

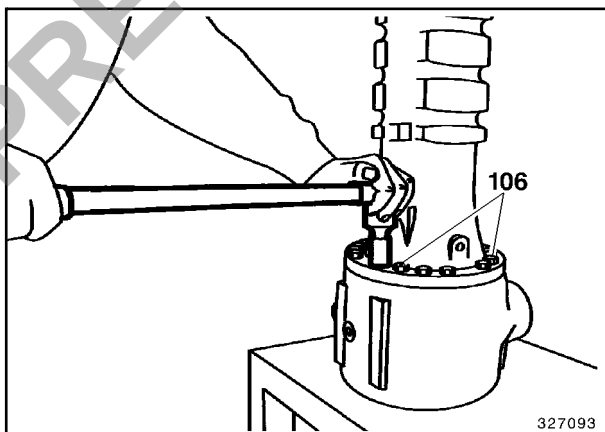


Fig. 63

Crosswise tighten hex screws (106).

Tightening torque $M_A = 120 \text{ Nm}$ (89 lbft).

Remove guide pins (S21) and turn in screws (106).

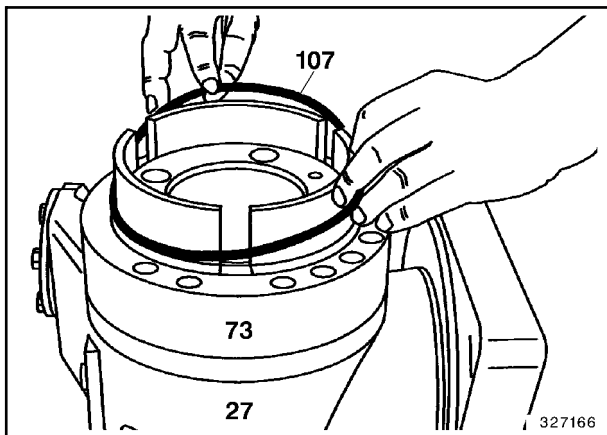


Fig. 66

Put on brake carrier (73). Mind marks made during dismantling.

Put on O-ring (107).

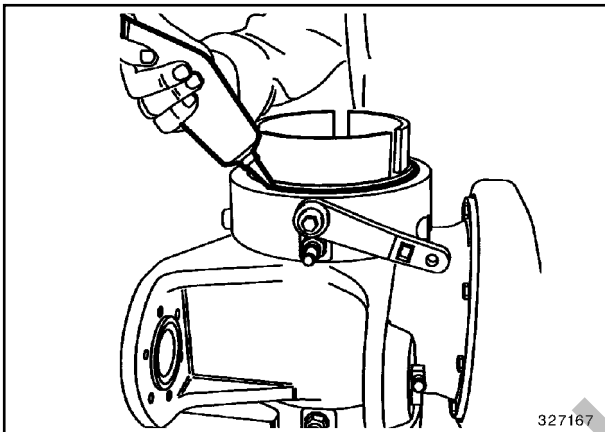


Fig. 67

Apply sealing compound.

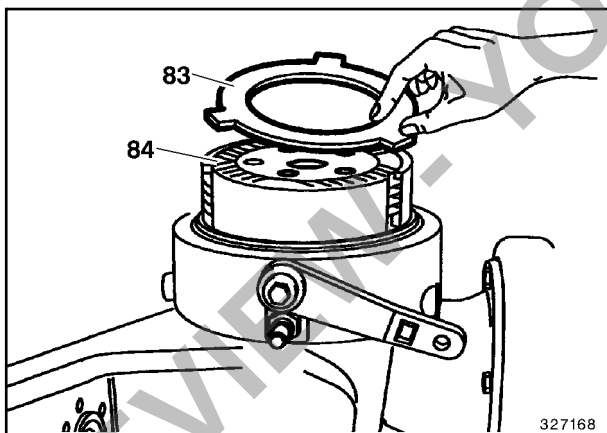


Fig. 68

Alternately insert 6 outer disks (83) and 5 inner disks (84), beginning with an outer disk (83).

Bring teeth of inner disks (84) and five oil exchange holes into perfect congruence.

Put new inner disks (84) in LS 5-90 gear oil for 30 minutes before inserting.

(Air gap = 0.16 mm/friction surface.)

(Air gap = 0.16 mm/brake.)

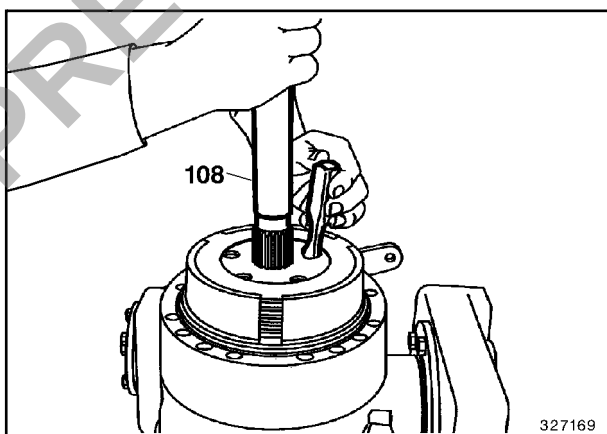


Fig. 69

Insert drive shaft (108).

Installing the steering system

Parts Fig. 8

- 1 - Steering column, top
- 2 - Steering column, bottom
- 3 - Pin
- 4 - Washer
- 5 - Shaft, bottom
- 6 - Universal joint
- 7 - Screw M 8 x 35
- 8 - Nut M 8
- 9 - Screw M 6
- 10 - Bracket
- 11 - Locking nut M 6
- 12 - Gas spring
- 13 - Pin
- 14 - Washer
- 15 - Spacer
- 16 - Screw M 3 x 45
- 17 - Washer
- 18 - Nut M 3
- 19 - Multifunct. lever
- 20 - Bracket plate
- 21 - Screw M 5 x 45
- 22 - Washer
- 23 - Cable harness
- 24 - Washer
- 25 - Nut M 5
- 26 - Clamp
- 27 - Gasket
- 28 - Damper
- 29 - Spacer
- 30 - Screw M 10 x 30
- 31 - Washer
- 32 - Washer
- 33 - Screw M 10 x 25
- 34 - Washer
- 35 - Paneling
- 36 - Screw M 6 x 20
- 37 - Nylon washer
- 38 - Spring
- 39 - Paneling
- 40 - Control panel
- 41 - Paneling
- 42 - Self-tapping screw M 3,9 x 9
- 43 - Steering wheel complete
- 44 - Steering wheel
- 45 - Cap
- 46 - Button
- 47 - Woodruff key
- 48 - Washer
- 49 - Screw M 18 x 1,5, $M_A = 40 \text{ Nm}$

□

Control block (H6)

2800944

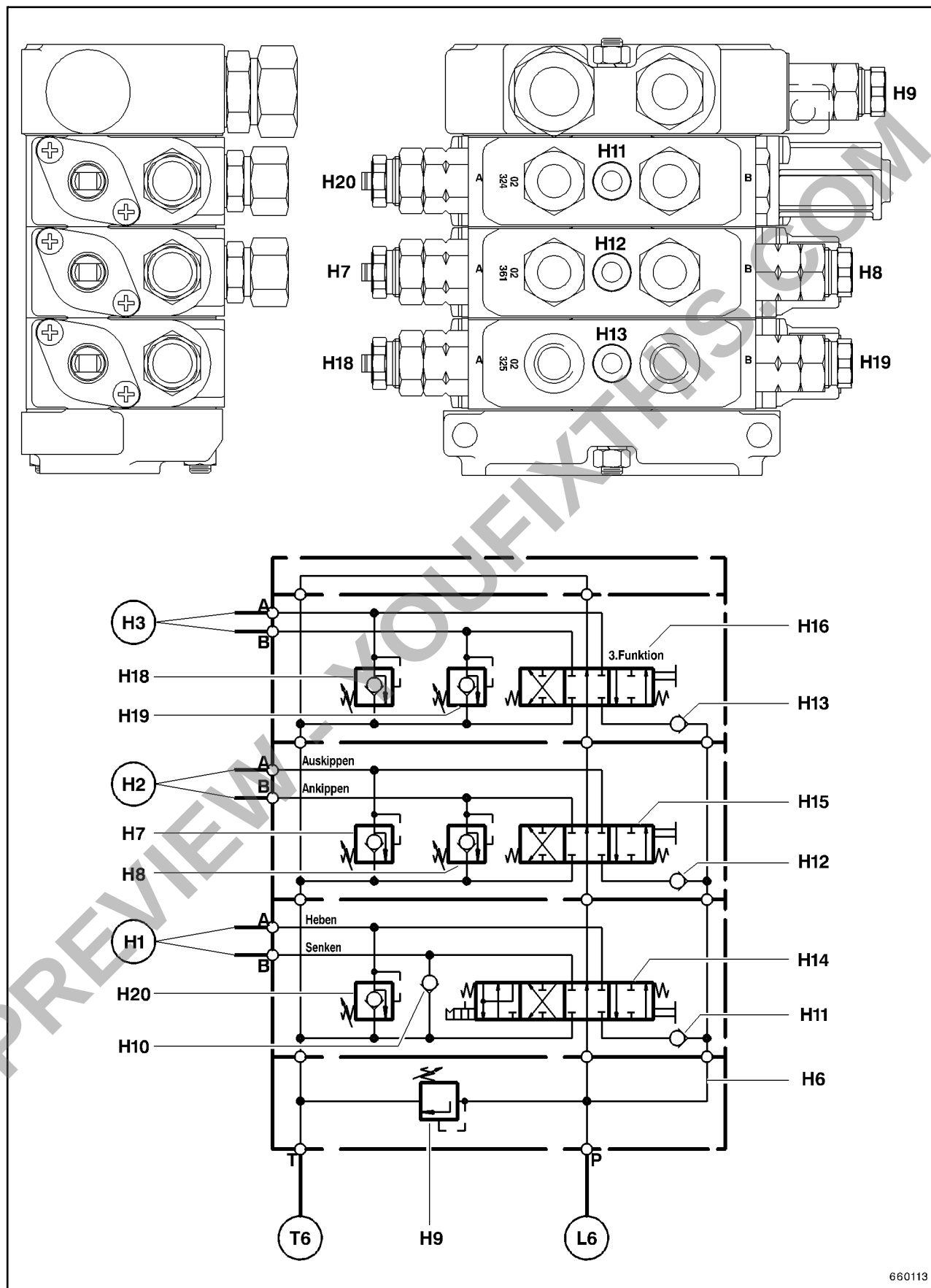


Fig. 3

Mixing fresh battery acid

Important:

When mixing new battery acid, care must be taken that concentrated sulphuric acid is always poured into the distilled water and never the other way round to avoid back-splashing of sulphuric acid. Wear goggles and protective clothes and observe the accident prevention rules.

The volumetric ratio of concentrated sulphuric acid (96 %) to distilled water is set out in the table below.

Mixing instructions

Desired acid density kg/l	Volumetric ratio of concentrated sulphuric acid (96 %) to distilled water
1.23	1 : 3,8
1.26	1 : 3,2
1.28	1 : 2,8
1.30	1 : 2,6
1.34	1 : 2,3

Maintenance

The term "maintenance" encompasses all measures of battery care required for an optimal function of the battery over its whole lifetime.

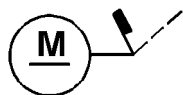
- Topping up the electrolyte level
- Periodic recharging during storage
- Immediate recharging after discharges
- Avoiding overcharging
- Avoiding exhaustive discharging



Alternator with rectifier set (3-phase alternating current generator)



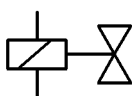
Symbol for motors, starters (motor vehicles)



Windscreen wiper with motor drive



A.c. motor



Solenoid valve



Horn



Electrical fan



Buzzer



Operating-hours meter



Electrical clock



Spark gap, e.g. spark plug

328086

Switches, contacts

	Closer
	Opener
	Main contact, 3 poles, closer
	Alternating contact
	Button, press to close
	Button, press to open
	Switch, turn to close / lock
	Switch, turn to open / lock
	Switch, press to close / lock
	Switch, press to open / lock
	Key switch, closer
	Key switch, opener
	Foot switch, closer
	Foot switch, opener
	Carn switch, closer
	Carn switch, opener
	Main switch, 3 poles
	Impact switch, Emergency OFF

Hydraulic and pneumatic equipment

Check all lines, hoses and screwed connections regularly for leaks and obvious damage. Repair damage immediately. Splashed oil may cause injury and fire.

Depressurize all system sections and pressure pipes (hydraulic system, compressed-air system) to be removed in accordance with the specific instructions for the unit concerned before carrying out any repair work.

Hydraulic and compressed-air lines must be laid and fitted properly. Ensure that no connections are interchanged. The fittings, lengths and quality of the hoses must comply with the technical requirements.

Noise

During operation, all sound baffles of the machine must be closed.

Always wear the prescribed ear protectors.

Oil, grease and other chemical substances

When handling oil, grease and other chemical substances, observe the product-related safety regulations.

Be careful when handling hot consumables (risk of burning or scalding).

TRANSPORTING AND TOWING - RECOMMISSIONING

The machine must be towed, loaded and transported only in accordance with the operating instructions.

For towing the machine observe the prescribed transport position, admissible speed and itinerary.

Use only appropriate means of transport and lifting gear of adequate capacity.

The recommissioning procedure must be strictly in accordance with the operating instructions. □

Assembly:

1. Prepare pipe for assembly.
2. Oil bolts (5, Fig. 2) and inner contour of flange (4).
3. Push F-ring (7) and flange (4) onto pipe.
4. Place seal ring (2) into groove. If necessary, fit a second seal ring (2) and centre disk (8).
5. Push hydraulic hose (10) up against pipe (6) with F-ring (7) and fit the two flange halves (9) into position.
6. Insert bolts (5), fit nuts (11) and tighten up bolts as far as possible by hand.



Flanges (4, 9) must be at right angles to pipe or hose axes, and must be parallel to one another. Permissible deviation from parallel = 0.3 mm.

Check visually.

7. Tighten bolts (5) diagonally and evenly to prescribed torque. The tightening torques required can be found in Table 2 (final torques). It is not necessary to check the gap dimension.

In case of leakage:

Tighten up bolts (5) to prescribed torque. Otherwise change seal ring (2).

Z-system

Fig. 4 shows:

- 2 - Seal ring
- 4 - Flange (one-part)
- 5 - Double-hex bolt
- 6 - Pipe
- 7 - Z-ring (wedge ring) without seal groove
- 9 - Flange half
- 10 - Hydraulic hose with SAE flange fitting
- 11 - Hex. nut

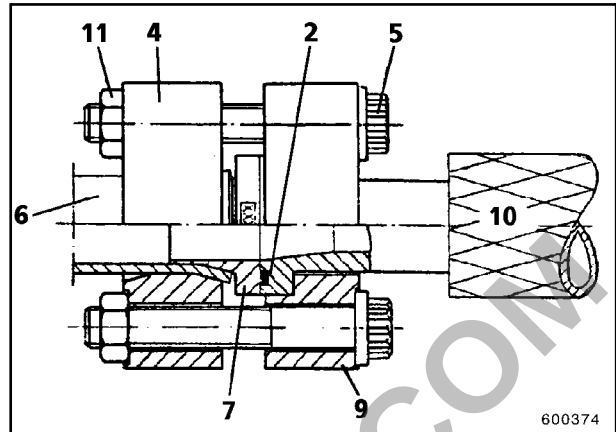


Fig. 4

Assembly:

1. Prepare pipe for assembly (see "Inserting the Z-ring")
2. Oil bolts (5) and inner contour of flange (4)
3. Fit seal ring (2) into seal groove
4. Press hydraulic hose (10) up against pipe (6) with Z-ring (7) and fit both flange halves (9).
5. Fit bolts (5), add nuts (11) and tighten bolts as far as possible by hand.



Flanges (4 + 9) must be at right angles to the pipe or hose axes. Permissible deviation from parallel = 0.3 mm.

Check visually.

6. Tighten bolts (5) evenly and diagonally. Tightening torque = 250 Nm (185 lbft) (final torque) It is not necessary to check the gap dimension.

PREVIEW ONLY

You're viewing 25 of 568 pages

The full manual includes:

- All 568 pages, complete
 - Searchable PDF (find any keyword)
 - No watermarks
 - Instant download
 - Print-ready quality
-

GET FULL MANUAL NOW

Fiat Kobelco W80 Technical Manual



Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual