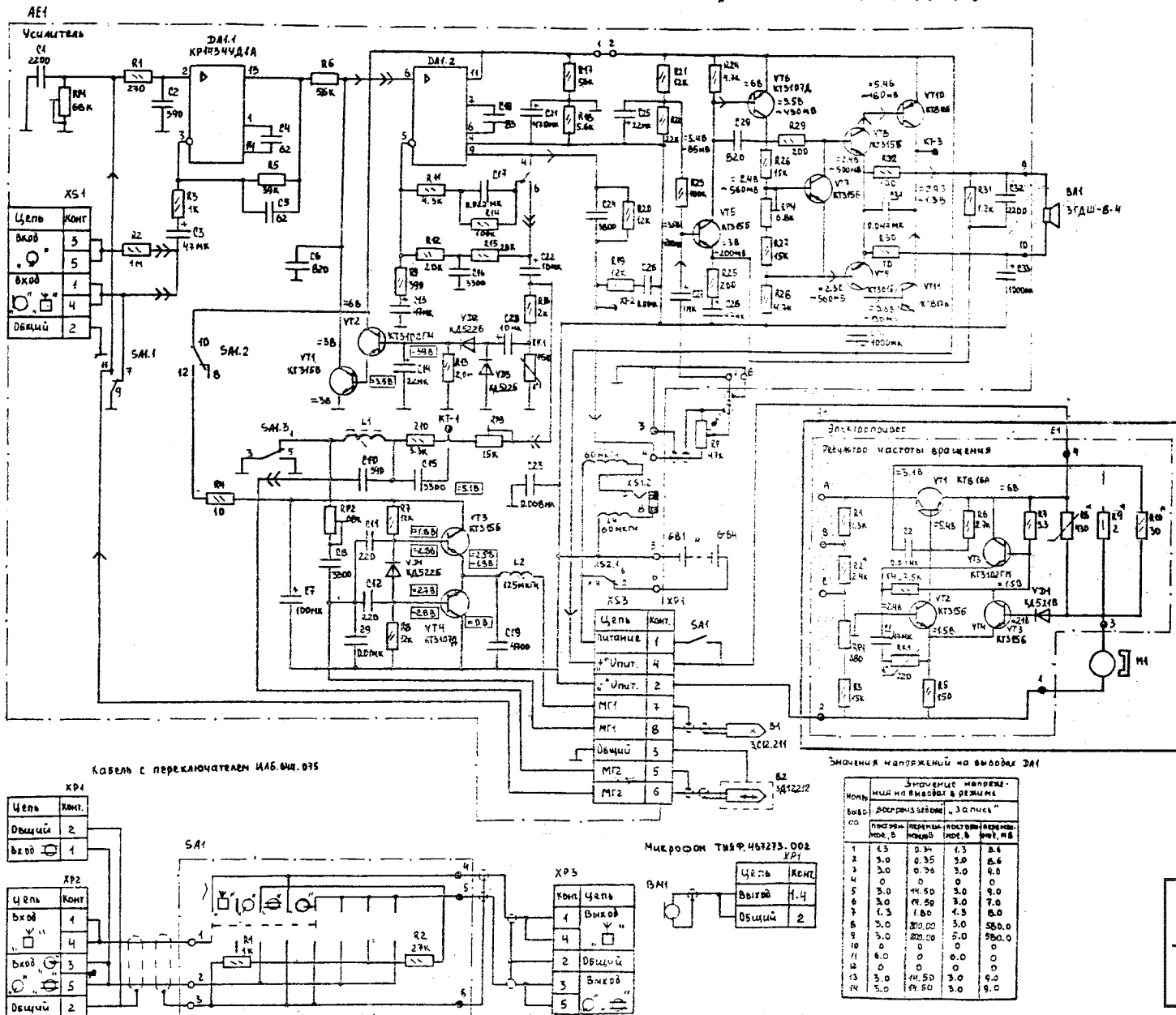


СХЕМА ЭЛЕКТРИЧЕСКАЯ ПРИНЦИПАЛЬНАЯ ИГРУШКИ „МАГНИТОФОН АЛИСА“



Переключатель SA1 усилителя AE1 показан в режиме «воспроизведения». Значения напряжений указаны в режиме «воспроизведения». Знаки \square отмечены значениями напряжений в режиме «Запись». Стрелкой \rightarrow показан состояние лампы при прохождении сигнала в режиме «воспроизведения», а стрелкой \leftarrow в режиме «Запись».

Измерения проводились при помощи цифрового частотомера при подаче сигнала частотой 315 Гц напряжением 0,5 мВ в режиме «воспроизведения» на вход усилителя. Выходные сигналы микрофона DA1.1 и SA1 в режиме «Запись» на вход усилителя записи (выход 5 микрофона DA1).

Показанные значения напряжений измерены при питании магнитофона от внешнего источника постоянного тока напряжением 6 В.

Дальнейшие отклонения напряжений не обозначены.

Данные элементов схем

- Усилитель
 1. Конденсаторы: C1-типа К22-5; C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26-типа К10-30; C27, C28, C29, C30-типа К10-30; C31, C32, C33-типа К10-30; C34, C35-типа К10-30; C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C50-типа К10-30; C51, C52, C53-типа К10-30; C54, C55-типа К10-30; C56, C57, C58, C59, C60-типа К10-30; C61, C62, C63, C64, C65, C66, C67, C68, C69, C70-типа К10-30; C71, C72, C73, C74, C75, C76, C77, C78, C79, C80-типа К10-30; C81, C82, C83, C84, C85, C86, C87, C88, C89, C90-типа К10-30; C91, C92, C93, C94, C95, C96, C97, C98, C99, C100-типа К10-30; C101, C102, C103, C104, C105, C106, C107, C108, C109, C110-типа К10-30; C111, C112, C113, C114, C115, C116, C117, C118, C119, C120-типа К10-30; C121, C122, C123, C124, C125, C126, C127, C128, C129, C130-типа К10-30; C131, C132, C133, C134, C135, C136, C137, C138, C139, C140-типа К10-30; C141, C142, C143, C144, C145, C146, C147, C148, C149, C150-типа К10-30; C151, C152, C153, C154, C155, C156, C157, C158, C159, C160-типа К10-30; C161, C162, C163, C164, C165, C166, C167, C168, C169, C170-типа К10-30; C171, C172, C173, C174, C175, C176, C177, C178, C179, C180-типа К10-30; C181, C182, C183, C184, C185, C186, C187, C188, C189, C190-типа К10-30; C191, C192, C193, C194, C195, C196, C197, C198, C199, C200-типа К10-30; C201, C202, C203, C204, C205, C206, C207, C208, C209, C210-типа К10-30; C211, C212, C213, C214, C215, C216, C217, C218, C219, C220-типа К10-30; C221, C222, C223, C224, C225, C226, C227, C228, C229, C230-типа К10-30; C231, C232, C233, C234, C235, C236, C237, C238, C239, C240-типа К10-30; C241, C242, C243, C244, C245, C246, C247, C248, C249, C250-типа К10-30; C251, C252, C253, C254, C255, C256, C257, C258, C259, C260-типа К10-30; C261, C262, C263, C264, C265, C266, C267, C268, C269, C270-типа К10-30; C271, C272, C273, C274, C275, C276, C277, C278, C279, C280-типа К10-30; C281, C282, C283, C284, C285, C286, C287, C288, C289, C290-типа К10-30; C291, C292, C293, C294, C295, C296, C297, C298, C299, C300-типа К10-30; C301, C302, C303, C304, C305, C306, C307, C308, C309, C310-типа К10-30; C311, C312, C313, C314, C315, C316, C317, C318, C319, C320-типа К10-30; C321, C322, C323, C324, C325, C326, C327, C328, C329, C330-типа К10-30; C331, C332, C333, C334, C335, C336, C337, C338, C339, C340-типа К10-30; C341, C342, C343, C344, C345, C346, C347, C348, C349, C350-типа К10-30; C351, C352, C353, C354, C355, C356, C357, C358, C359, C360-типа К10-30; C361, C362, C363, C364, C365, C366, C367, C368, C369, C370-типа К10-30; C371, C372, C373, C374, C375, C376, C377, C378, C379, C380-типа К10-30; C381, C382, C383, C384, C385, C386, C387, C388, C389, C390-типа К10-30; C391, C392, C393, C394, C395, C396, C397, C398, C399, C400-типа К10-30; C401, C402, C403, C404, C405, C406, C407, C408, C409, C410-типа К10-30; C411, C412, C413, C414, C415, C416, C417, C418, C419, C420-типа К10-30; C421, C422, C423, C424, C425, C426, C427, C428, C429, C430-типа К10-30; C431, C432, C433, C434, C435, C436, C437, C438, C439, C440-типа К10-30; C441, C442, C443, C444, C445, C446, C447, C448, C449, C450-типа К10-30; C451, C452, C453, C454, C455, C456, C457, C458, C459, C460-типа К10-30; C461, C462, C463, C464, C465, C466, C467, C468, C469, C470-типа К10-30; C471, C472, C473, C474, C475, C476, C477, C478, C479, C480-типа К10-30; C481, C482, C483, C484, C485, C486, C487, C488, C489, C490-типа К10-30; C491, C492, C493, C494, C495, C496, C497, C498, C499, C500-типа К10-30; C501, C502, C503, C504, C505, C506, C507, C508, C509, C510-типа К10-30; C511, C512, C513, C514, C515, C516, C517, C518, C519, C520-типа К10-30; C521, C522, C523, C524, C525, C526, C527, C528, C529, C530-типа К10-30; C531, C532, C533, C534, C535, C536, C537, C538, C539, C540-типа К10-30; C541, C542, C543, C544, C545, C546, C547, C548, C549, C550-типа К10-30; C551, C552, C553, C554, C555, C556, C557, C558, C559, C560-типа К10-30; C561, C562, C563, C564, C565, C566, C567, C568, C569, C570-типа К10-30; C571, C572, C573, C574, C575, C576, C577, C578, C579, C580-типа К10-30; C581, C582, C583, C584, C585, C586, C587, C588, C589, C590-типа К10-30; C591, C592, C593, C594, C595, C596, C597, C598, C599, C600-типа К10-30; C601, C602, C603, C604, C605, C606, C607, C608, C609, C610-типа К10-30; C611, C612, C613, C614, C615, C616, C617, C618, C619, C620-типа К10-30; C621, C622, C623, C624, C625, C626, C627, C628, C629, C630-типа К10-30; C631, C632, C633, C634, C635, C636, C637, C638, C639, C640-типа К10-30; C641, C642, C643, C644, C645, C646, C647, C648, C649, C650-типа К10-30; C651, C652, C653, C654, C655, C656, C657, C658, C659, C660-типа К10-30; C661, C662, C663, C664, C665, C666, C667, C668, C669, C670-типа К10-30; C671, C672, C673, C674, C675, C676, C677, C678, C679, C680-типа К10-30; C681, C682, C683, C684, C685, C686, C687, C688, C689, C690-типа К10-30; C691, C692, C693, C694, C695, C696, C697, C698, C699, C700-типа К10-30; C701, C702, C703, C704, C705, C706, C707, C708, C709, C710-типа К10-30; C711, C712, C713, C714, C715, C716, C717, C718, C719, C720-типа К10-30; C721, C722, C723, C724, C725, C726, C727, C728, C729, C730-типа К10-30; C731, C732, C733, C734, C735, C736, C737, C738, C739, C740-типа К10-30; C741, C742, C743, C744, C745, C746, C747, C748, C749, C750-типа К10-30; C751, C752, C753, C754, C755, C756, C757, C758, C759, C760-типа К10-30; C761, C762, C763, C764, C765, C766, C767, C768, C769, C770-типа К10-30; C771, C772, C773, C774, C775, C776, C777, C778, C779, C780-типа К10-30; C781, C782, C783, C784, C785, C786, C787, C788, C789, C790-типа К10-30; C791, C792, C793, C794, C795, C796, C797, C798, C799, C800-типа К10-30; C801, C802, C803, C804, C805, C806, C807, C808, C809, C810-типа К10-30; C811, C812, C813, C814, C815, C816, C817, C818, C819, C820-типа К10-30; C821, C822, C823, C824, C825, C826, C827, C828, C829, C830-типа К10-30; C831, C832, C833, C834, C835, C836, C837, C838, C839, C840-типа К10-30; C841, C842, C843, C844, C845, C846, C847, C848, C849, C850-типа К10-30; C851, C852, C853, C854, C855, C856, C857, C858, C859, C860-типа К10-30; C861, C862, C863, C864, C865, C866, C867, C868, C869, C870-типа К10-30; C871, C872, C873, C874, C875, C876, C877, C878, C879, C880-типа К10-30; C881, C882, C883, C884, C885, C886, C887, C888, C889, C890-типа К10-30; C891, C892, C893, C894, C895, C896, C897, C898, C899, C900-типа К10-30; C901, C902, C903, C904, C905, C906, C907, C908, C909, C910-типа К10-30; C911, C912, C913, C914, C915, C916, C917, C918, C919, C920-типа К10-30; C921, C922, C923, C924, C925, C926, C927, C928, C929, C930-типа К10-30; C931, C932, C933, C934, C935, C936, C937, C938, C939, C940-типа К10-30; C941, C942, C943, C944, C945, C946, C947, C948, C949, C950-типа К10-30; C951, C952, C953, C954, C955, C956, C957, C958, C959, C960-типа К10-30; C961, C962, C963, C964, C965, C966, C967, C968, C969, C970-типа К10-30; C971, C972, C973, C974, C975, C976, C977, C978, C979, C980-типа К10-30; C981, C982, C983, C984, C985, C986, C987, C988, C989, C990-типа К10-30; C991, C992, C993, C994, C995, C996, C997, C998, C999, C1000-типа К10-30; C1001, C1002, C1003, C1004, C1005, C1006, C1007, C1008, C1009, C1010-типа К10-30; C1011, C1012, C1013, C1014, C1015, C1016, C1017, C1018, C1019, C1020-типа К10-30; C1021, C1022, C1023, C1024, C1025, C1026, C1027, C1028, C1029, C1030-типа К10-30; C1031, C1032, C1033, C1034, C1035, C1036, C1037, C1038, C1039, C1040-типа К10-30; C1041, C1042, C1043, C1044, C1045, C1046, C1047, C1048, C1049, C1050-типа К10-30; C1051, C1052, C1053, C1054, C1055, C1056, C1057, C1058, C1059, C1060-типа К10-30; C1061, C1062, C1063, C1064, C1065, C1066, C1067, C1068, C1069, C1070-типа К10-30; C1071, C1072, C1073, C1074, C1075, C1076, C1077, C1078, C1079, C1080-типа К10-30; C1081, C1082, C1083, C1084, C1085, C1086, C1087, C1088, C1089, C1090-типа К10-30; C1091, C1092, C1093, C1094, C1095, C1096, C1097, C1098, C1099, C1100-типа К10-30; C1101, C1102, C1103, C1104, C1105, C1106, C1107, C1108, C1109, C1110-типа К10-30; C1111, C1112, C1113, C1114, C1115, C1116, C1117, C1118, C1119, C1120-типа К10-30; C1121, C1122, C1123, C1124, C1125, C1126, C1127, C1128, C1129, C1130-типа К10-30; C1131, C1132, C1133, C1134, C1135, C1136, C1137, C1138, C1139, C1140-типа К10-30; C1141, C1142, C1143, C1144, C1145, C1146, C1147, C1148, C1149, C1150-типа К10-30; C1151, C1152, C1153, C1154, C1155, C1156, C1157, C1158, C1159, C1160-типа К10-30; C1161, C1162, C1163, C1164, C1165, C1166, C1167, C1168, C1169, C1170-типа К10-30; C1171, C1172, C1173, C1174, C1175, C1176, C1177, C1178, C1179, C1180-типа К10-30; C1181, C1182, C1183, C1184, C1185, C1186, C1187, C1188, C1189, C1190-типа К10-30; C1191, C1192, C1193, C1194, C1195, C1196, C1197, C1198, C1199, C1200-типа К10-30; C1201, C1202, C1203, C1204, C1205, C1206, C1207, C1208, C1209, C1210-типа К10-30; C1211, C1212, C1213, C1214, C1215, C1216, C1217, C1218, C1219, C1220-типа К10-30; C1221, C1222, C1223, C1224, C1225, C1226, C1227, C1228, C1229, C1230-типа К10-30; C1231, C1232, C1233, C1234, C1235, C1236, C1237, C1238, C1239, C1240-типа К10-30; C1241, C1242, C1243, C1244, C1245, C1246, C1247, C1248, C1249, C1250-типа К10-30; C1251, C1252, C1253, C1254, C1255, C1256, C1257, C1258, C1259, C1260-типа К10-30; C1261, C1262, C1263, C1264, C1265, C1266, C1267, C1268, C1269, C1270-типа К10-30; C1271, C1272, C1273, C1274, C1275, C1276, C1277, C1278, C1279, C1280-типа К10-30; C1281, C1282, C1283, C1284, C1285, C1286, C1287, C1288, C1289, C1290-типа К10-30; C1291, C1292, C1293, C1294, C1295, C1296, C1297, C1298, C1299, C1300-типа К10-30; C1301, C1302, C1303, C1304, C1305, C1306, C1307, C1308, C1309, C1310-типа К10-30; C1311, C1312, C1313, C1314, C1315, C1316, C1317, C1318, C1319, C1320-типа К10-30; C1321, C1322, C1323, C1324, C1325, C1326, C1327, C1328, C1329, C1330-типа К10-30; C1331, C1332, C1333, C1334, C1335, C1336, C1337, C1338, C1339, C1340-типа К10-30; C1341, C1342, C1343, C1344, C1345, C1346, C1347, C1348, C1349, C1350-типа К10-30; C1351, C1352, C1353, C1354, C1355, C1356, C1357, C1358, C1359, C1360-типа К10-30; C1361, C1362, C1363, C1364, C1365, C1366, C1367, C1368, C1369, C1370-типа К10-30; C1371, C1372, C1373, C1374, C1375, C1376, C1377, C1378, C1379, C1380-типа К10-30; C1381, C1382, C1383, C1384, C1385, C1386, C1387, C1388, C1389, C1390-типа К10-30; C1391, C1392, C1393, C1394, C1395, C1396, C1397, C1398, C1399, C1400-типа К10-30; C1401, C1402, C1403, C1404, C1405, C1406, C1407, C1408, C1409, C1410-типа К10-30; C1411, C1412, C1413, C1414, C1415, C1416, C1417, C1418, C1419, C1420-типа К10-30; C1421, C1422, C1423, C1424, C1425, C1426, C1427, C1428, C1429, C1430-типа К10-30; C1431, C1432, C1433, C1434, C1435, C1436, C1437, C1438, C1439, C1440-типа К10-30; C1441, C1442, C1443, C1444, C1445, C1446, C1447, C1448, C1449, C1450-типа К10-30; C1451, C1452, C1453, C1454, C1455, C1456, C1457, C1458, C1459, C1460-типа К10-30; C1461, C1462, C1463, C1464, C1465, C1466, C1467, C1468, C1469, C1470-типа К10-30; C1471, C1472, C1473, C1474, C1475, C1476, C1477, C1478, C1479, C1480-типа К10-30; C1481, C1482, C1483, C1484, C1485, C1486, C1487, C1488, C1489, C1490-типа К10-30; C1491, C1492, C1493, C1494, C1495, C1496, C1497, C1498, C1499, C1500-типа К10-30; C1501, C1502, C1503, C1504, C1505, C1506, C1507, C1508, C1509, C1510-типа К10-30; C1511, C1512, C1513, C1514, C1515, C1516, C1517, C1518, C1519, C1520-типа К10-30; C1521, C1522, C1523, C1524, C1525, C1526, C1527, C1528, C1529, C1530-типа К10-30; C1531, C1532, C1533, C1534, C1535, C1536, C1537, C1538, C1539, C1540-типа К10-30; C1541, C1542, C1543, C1544, C1545, C1546, C1547, C1548, C1549, C1550-типа К10-30; C1551, C1552, C1553, C1554, C1555, C1556, C1557, C1558, C1559, C1560-типа К10-30; C1561, C1562, C1563, C1564, C1565, C1566, C1567, C1568, C1569, C1570-типа К10-30; C1571, C1572, C1573, C1574, C1575, C1576, C1577, C1578, C1579, C1580-типа К10-30; C1581, C1582, C1583, C1584, C1585, C1586, C1587, C1588, C1589, C1590-типа К10-30; C1591, C1592, C1593, C1594, C1595, C1596, C1597, C1598, C1599, C1600-типа К10-30; C1601, C1602, C1603, C1604, C1605, C1606, C1607, C1608, C1609, C1610-типа К10-30; C1611, C1612, C1613, C1614, C1615, C1616, C1617, C1618, C1619, C1620-типа К10-30; C1621, C1622, C1623, C1624, C1625, C1626, C1627, C1628, C1629, C1630-типа К10-30; C1631, C1632, C1633, C1634, C1635, C1636, C1637, C1638, C1639, C1640-типа К10-30; C1641, C1642, C1643, C1644, C1645, C1646, C1647, C1648, C1649, C1650-типа К10-30; C1651, C1652, C1653, C1654, C1655, C1656, C1657, C1658, C1659, C1660-типа К10-30; C1661, C1662, C1663, C1664, C1665, C1666, C1667, C1668, C1669, C1670-типа К10-30; C1671, C1672, C1673, C1674, C1675, C1676, C1677, C1678, C1679, C1680-типа К10-30; C1681, C1682, C1683, C1684, C1685, C1686, C1687, C1688, C1689, C1690-типа К10-30; C1691, C1692, C1693, C1694, C1695, C1696, C1697, C1698, C1699, C1700-типа К10-30; C1701, C1702, C1703, C1704, C1705, C1706, C1707, C1708, C1709, C1710-типа К10-30; C1711, C1712, C1713, C1714, C1715, C1716, C1717, C1718, C1719, C1720-типа К10-30; C1721, C1722, C1723, C1724, C1725, C1726, C1727, C1728, C1729, C1730-типа К10-30; C1731, C1732, C1733, C1734, C1735, C1736, C1737, C1738, C1739, C1740-типа К10-30; C1741, C1742, C1743, C1744, C1745, C1746, C1747, C1748, C1749, C1750-типа К10-30; C1751, C1752, C1753, C1754, C1755, C1756, C1757, C1758, C1759, C1760-типа К10-30; C1761, C1762, C1763, C1764, C1765, C1766, C1767, C1768, C1769, C1770-типа К10-30; C1771, C1772, C1773, C1774, C1775, C1776, C1777, C1778, C1779, C1780-типа К10-30; C1781, C1782, C1783, C1784, C1785, C1786, C1787, C1788, C1789, C1790-типа К10-30; C1791, C1792, C1793, C1794, C1795, C1796, C1797, C1798, C1799, C1800-типа К10-30; C1801, C1802, C1803, C1804, C1805, C1806, C1807, C1808, C1809, C1810-типа К10-30; C1811, C1812, C1813, C1814, C1815, C1816, C1817, C1818, C1819, C1820-типа К10-30; C1821, C1822, C1823, C1824, C1825, C1826, C1827, C1828, C1829, C1830-типа К10-30; C1831, C1832, C1833, C1834, C1835, C1836, C1837, C1838, C1839, C1840-типа К10-30; C1841, C1842, C1843, C1844, C1845, C1846, C1847, C1848, C1849, C1850-типа К10-30; C1851, C1852, C1853, C1854, C1855, C1856, C1857, C1858, C1859, C1860-типа К10-30; C1