

Rattling/thumping noises from area of steering (simplified test method)

Topic number	LI46.20-P-053398
Version	1
Design group	46.20 Steering gear
Date	03-12-2012
Validity	Model 163, 164, 168, 171, 172, 203, 204, 207, 209, 210, 211, 212, 215, 216, 219, 220, 221, 251 with hydraulic steering system
Reason for change	Model series 172 now included.
Reason for block	

Complaint:

Rattling/thumping noises from the area of the steering on rough roads or when driving over road undulations.

Cause:

Possible cause: Excessive play between thrust piece and steering rack.

Remedy:

To quickly and easily ascertain whether the problem noise (rattling/thumping) comes from play between the thrust piece and steering rack, a simplified test method has been compiled.

1. Mark position of adjustment screw (initial position) in relation to the steering gear housing.
2. Turn the adjustment screw as far as it will go (torque 110 Nm), then turn it back approx. 1/8 of a turn (45°).  
Note: The breakaway torque may be briefly higher than this if the adjustment screw is turned further.
3. Check steering for ease of movement; to do this turn the steering from lock to lock without running the engine (wheels unloaded). It should not be possible to feel any resistance points. If resistance points are felt, slacken the adjustment screw a little more.
4. Perform a test drive.
5. If the noise has changed or can no longer be heard, adjust the play between the steering rack and the thrust piece.
6. If the noise can still be heard, turn the adjustment screw back to the marked position and check for other noise sources.

Symptoms
Steering system / Chattering/knocking / Steering noise / Chassis/suspension /
Steering system / Steering noise / Chassis/suspension / Clattering /

WIS-References			
Document number	Title	Note	Allocation
AR46.20-P-0601CW	Adjust play between thrust piece and steering rack	MODEL 172, 204, 207, 212, 216, 221	Remedy
AR46.20-P-0601A	Adjust play between thrust piece and steering rack	MODEL 210	Remedy

AR46.20-P-0601P	Adjust play between thrust piece and steering rack	MODEL 203, 209, 211, 215, 220	Remedy
AR46.20-P-0601TX	Adjust play between thrust piece and steering rack	MODEL 164, 171, 219, 251	Remedy
AR46.20-P-0601GH	Adjust play between thrust piece and steering rack	MODEL 163	Remedy
AR46.20-P-0601GC	Adjust play between thrust piece and steering rack	MODEL 168	Remedy

Validity		
Vehicle	Engine	Transmission
A (168)	*	*
C (203)	*	*
C (204)	*	*
CL (215)	*	*
CL (216)	*	*
CLK (209)	*	*
CLS (219)	*	*
E (207)	*	*
E (210)	*	*
E (211)	*	*
E (212)	*	*
GL (164)	*	*
GLK (204)	*	*
M (163)	*	*
M (164)	*	*
R (251)	*	*
S (220)	*	*
S (221)	*	*
SLK (171)	*	*
SLK (172)	*	*

Full model designation breakdown ( 1000 / 1195 )		
Vehicle	Engine	Transmission
163.113	612.963	716.644
163.113	612.963	722.661
163.128	628.963	722.666
163.128	628.963	722.673
163.136	111.977	717.461
163.136	111.977	722.660
163.154	112.942	722.662
163.157	112.970	722.673
163.157	112.970	722.674

# XENTRY

163.172	113.942	722.663
163.174	113.981	722.666
163.175	113.965	722.666
164.120	642.940	722.902
164.121	642.820	722.902
164.122	642.940	722.902
164.124	642.820	722.902
164.125	642.820	722.902
164.128	629.912	722.903
164.156	272.967	722.906
164.172	273.963	722.904
164.175	113.964	722.901
164.177	156.980	722.907
164.182	272.945	722.999
164.186	272.967	722.906
164.195	272.973	722.550
164.822	642.940	722.902
164.823	642.822	722.903
164.824	642.820	722.902
164.825	642.820	722.902
164.828	629.912	722.903
164.871	273.923	722.904
164.886	273.963	722.904
168.006	668.940	716.500
168.006	668.940	716.502
168.006	668.940	716.504
168.006	668.940	716.505
168.006	668.940	722.701
168.007	668.941	716.504
168.007	668.941	716.505
168.007	668.941	722.701
168.008	668.940	716.500
168.008	668.940	716.502
168.008	668.940	722.701
168.009	668.942	716.500
168.009	668.942	716.502
168.009	668.942	722.701
168.031	166.940	716.501
168.031	166.940	716.503
168.031	166.940	716.506
168.031	166.940	716.507
168.031	166.940	722.700
168.031	166.940	722.703

# XENTRY

168.031	166.960	716.501
168.031	166.960	716.503
168.031	166.960	716.506
168.031	166.960	716.507
168.031	166.960	722.700
168.031	166.960	722.703
168.032	166.990	716.501
168.032	166.990	716.503
168.032	166.990	716.506
168.032	166.990	716.507
168.032	166.990	716.511
168.032	166.990	716.512
168.032	166.990	722.700
168.032	166.990	722.703
168.033	166.960	716.501
168.033	166.960	716.503
168.033	166.960	716.506
168.033	166.960	716.507
168.033	166.960	716.511
168.033	166.960	716.512
168.033	166.960	722.700
168.033	166.960	722.703
168.035	166.995	716.506
168.035	166.995	716.507
168.035	166.995	722.700
168.035	166.995	722.702
168.109	668.942	716.500
168.109	668.942	716.502
168.109	668.942	722.701
168.131	166.940	716.501
168.131	166.940	716.503
168.131	166.940	716.506
168.131	166.940	716.507
168.131	166.940	722.700
168.131	166.940	722.703
168.131	166.960	716.501
168.131	166.960	716.503
168.131	166.960	716.506
168.131	166.960	716.507
168.131	166.960	722.700
168.131	166.960	722.703
168.132	166.990	716.506
168.132	166.990	716.507

XENTRY

168.132	166.990	722.700
168.132	166.990	722.703
168.133	166.960	716.501
168.133	166.960	716.503
168.133	166.960	716.506
168.133	166.960	716.507
168.133	166.960	722.700
168.133	166.960	722.703
168.135	166.995	716.506
168.135	166.995	716.507
168.135	166.995	722.700
168.135	166.995	722.702
171.442	271.944	716.631
171.442	271.944	722.695
171.445	271.954	711.656
171.445	271.954	716.631
171.445	271.954	722.695
171.454	272.942	711.654
171.454	272.942	716.669
171.454	272.942	722.999
171.456	272.963	716.664
171.456	272.963	722.906
171.458	272.969	716.664
171.458	272.969	722.904
171.473	113.989	722.907
172.403	651.980	711.670
172.403	651.980	722.908
172.447	271.861	711.653
172.447	271.861	722.997
172.448	271.861	711.655
172.448	271.861	722.997
172.457	276.956	722.906
172.475	152.980	722.909
203.004	611.962	716.601
203.004	611.962	716.603
203.004	611.962	716.604
203.004	611.962	722.619
203.004	611.962	722.699
203.006	611.962	716.640
203.006	611.962	716.647
203.006	611.962	716.651
203.006	611.962	722.699
203.007	646.962	716.604

XENTRY

203.007	646.962	716.606
203.007	646.962	722.699
203.007	646.963	716.604
203.007	646.963	716.606
203.007	646.963	722.699
203.008	646.963	716.649
203.008	646.963	716.654
203.008	646.963	722.699
203.016	612.962	716.641
203.016	612.962	716.648
203.016	612.962	716.649
203.016	612.962	716.654
203.016	612.962	722.634
203.016	612.962	722.640
203.018	612.990	722.642
203.020	642.910	716.653
203.020	642.910	722.902
203.035	111.951	716.620
203.035	111.951	716.633
203.035	111.951	722.602
203.035	111.951	722.615
203.040	271.948	716.628
203.040	271.948	716.631
203.040	271.948	722.695
203.042	271.940	716.605
203.042	271.940	716.628
203.042	271.940	716.631
203.042	271.940	722.695
203.043	271.942	716.628
203.043	271.942	722.695
203.045	111.955	716.622
203.045	111.955	716.630
203.045	111.955	722.616
203.046	271.946	716.605
203.046	271.946	716.628
203.046	271.946	716.631
203.046	271.946	722.695
203.052	272.920	716.638
203.052	272.920	722.998
203.054	272.940	716.669
203.054	272.940	722.999
203.056	272.960	716.664
203.056	272.960	722.906

# XENTRY

203.061	112.912	716.623
203.061	112.912	716.634
203.061	112.912	716.638
203.061	112.912	722.696
203.064	112.946	716.667
203.064	112.946	716.669
203.064	112.946	722.618
203.065	112.961	722.633
203.065	112.961	722.641
203.076	113.988	722.636
203.081	112.916	722.667
203.084	112.953	722.668
203.087	272.970	722.676
203.092	272.941	722.690
203.204	611.962	716.601
203.204	611.962	716.603
203.204	611.962	716.604
203.204	611.962	722.619
203.204	611.962	722.699
203.206	611.962	716.640
203.206	611.962	716.647
203.206	611.962	716.651
203.206	611.962	722.699
203.207	646.962	716.604
203.207	646.962	716.606
203.207	646.962	722.699
203.207	646.963	716.604
203.207	646.963	716.606
203.207	646.963	722.699
203.208	646.963	716.649
203.208	646.963	716.654
203.208	646.963	722.699
203.216	611.962	716.641
203.216	611.962	716.648
203.216	611.962	716.649
203.216	611.962	716.654
203.216	611.962	722.634
203.216	611.962	722.640
203.216	612.962	716.641
203.216	612.962	716.648
203.216	612.962	716.649
203.216	612.962	716.654
203.216	612.962	722.634

XENTRY

203.216	612.962	722.640
203.218	612.990	722.642
203.220	642.910	716.653
203.220	642.910	722.902
203.235	111.951	716.620
203.235	111.951	716.633
203.235	111.951	722.602
203.235	111.951	722.615
203.240	271.948	716.628
203.240	271.948	716.631
203.240	271.948	722.695
203.242	271.940	716.605
203.242	271.940	716.628
203.242	271.940	716.631
203.242	271.940	722.695
203.243	271.942	716.628
203.243	271.942	722.695
203.245	111.955	716.620
203.245	111.955	716.622
203.245	111.955	716.627
203.245	111.955	716.630
203.245	111.955	722.602
203.245	111.955	722.616
203.246	271.946	716.605
203.246	271.946	716.628
203.246	271.946	716.631
203.246	271.946	722.695
203.252	272.920	716.638
203.252	272.920	722.998
203.254	272.940	716.669
203.254	272.940	722.999
203.256	272.960	716.664
203.256	272.960	722.906
203.261	112.912	716.623
203.261	112.912	716.634
203.261	112.912	722.696
203.261	112.912	722.698
203.264	112.946	722.618
203.264	112.946	722.633
203.265	112.961	722.633
203.265	112.961	722.641
203.276	113.988	722.636
203.281	112.916	722.667

# XENTRY

203.284	112.953	722.668
203.287	272.970	722.676
203.292	272.941	722.690
203.706	611.962	716.640
203.706	611.962	716.647
203.706	611.962	716.651
203.706	611.962	722.699
203.707	646.962	711.655
203.707	646.962	716.604
203.707	646.962	716.606
203.707	646.962	722.699
203.707	646.963	711.655
203.707	646.963	716.604
203.707	646.963	716.606
203.707	646.963	722.699
203.708	646.963	711.653
203.708	646.963	716.649
203.708	646.963	716.654
203.708	646.963	722.699
203.718	612.990	722.642
203.730	271.921	716.605
203.730	271.921	716.631
203.730	271.921	722.695
203.731	271.911	711.655
203.731	271.911	716.605
203.731	271.911	722.695
203.735	111.951	716.620
203.735	111.951	716.633
203.735	111.951	722.602
203.735	111.951	722.615
203.740	271.948	716.605
203.740	271.948	716.628
203.740	271.948	716.631
203.740	271.948	722.695
203.741	271.957	711.656
203.741	271.957	716.605
203.741	271.957	716.631
203.741	271.957	722.695
203.742	271.940	716.605
203.742	271.940	716.628
203.742	271.940	716.631
203.742	271.940	722.695
203.743	271.942	716.628

XENTRY

203.743	271.942	722.695
203.745	111.955	716.622
203.745	111.955	716.627
203.745	111.955	716.630
203.745	111.955	722.616
203.746	271.946	711.656
203.746	271.946	716.605
203.746	271.946	716.628
203.746	271.946	716.631
203.746	271.946	722.695
203.747	111.981	716.632
203.747	111.981	716.662
203.747	111.981	716.663
203.747	111.981	716.668
203.747	111.981	722.616
203.752	272.920	711.656
203.752	272.920	716.638
203.752	272.920	722.998
203.756	272.960	711.654
203.756	272.960	716.664
203.756	272.960	722.906
203.764	112.946	716.667
203.764	112.946	716.669
203.764	112.946	722.618
204.000	651.913	711.653
204.000	651.913	716.656
204.000	651.913	722.694
204.000	651.913	722.996
204.001	651.913	711.653
204.001	651.913	716.656
204.001	651.913	722.694
204.001	651.913	722.996
204.002	651.911	711.653
204.002	651.911	716.656
204.002	651.911	722.646
204.002	651.911	722.908
204.003	651.911	711.670
204.003	651.911	722.646
204.003	651.911	722.908
204.006	646.812	716.608
204.006	646.812	722.699
204.007	646.811	716.608
204.007	646.811	716.655

XENTRY

204.007	646.811	722.699
204.008	646.811	716.657
204.008	646.811	722.640
204.022	642.960	711.670
204.022	642.960	722.902
204.023	642.834	711.670
204.023	642.834	722.903
204.025	642.830	711.670
204.025	642.830	722.902
204.031	274.910	711.655
204.031	274.910	722.995
204.034	274.920	711.655
204.034	274.920	722.995
204.041	271.950	711.656
204.041	271.950	716.607
204.041	271.950	716.635
204.041	271.950	722.695
204.041	271.950	722.997
204.044	271.910	711.655
204.044	271.910	716.635
204.044	271.910	722.695
204.045	271.910	711.655
204.045	271.910	716.607
204.045	271.910	722.695
204.046	271.952	716.607
204.046	271.952	716.635
204.046	271.952	722.695
204.046	271.952	722.997
204.047	271.860	716.656
204.047	271.860	722.618
204.047	271.860	722.997
204.048	271.820	711.653
204.048	271.820	711.655
204.048	271.820	716.607
204.048	271.820	716.612
204.048	271.820	722.696
204.048	271.820	722.997
204.048	271.860	711.653
204.048	271.860	711.655
204.048	271.860	716.607
204.048	271.860	716.612
204.048	271.860	722.696
204.048	271.860	722.997

# XENTRY

204.049	271.820	711.653
204.049	271.820	711.655
204.049	271.820	716.607
204.049	271.820	716.612
204.049	271.820	722.696
204.049	271.820	722.997
204.052	272.921	711.656
204.052	272.921	716.636
204.052	272.921	722.998
204.054	272.947	711.654
204.054	272.947	716.671
204.054	272.947	722.999
204.055	276.957	722.906
204.056	272.961	722.906
204.057	276.957	722.906
204.065	272.982	722.906
204.077	156.985	722.907
204.077	156.985	722.930
204.080	276.957	722.960
204.081	272.948	722.964
204.082	651.912	722.965
204.085	272.911	711.656
204.085	272.911	716.636
204.085	272.911	722.963
204.087	272.971	722.960
204.088	276.957	722.960
204.089	642.961	722.962
204.092	642.832	722.962
204.200	651.913	711.653
204.200	651.913	716.656
204.200	651.913	722.694
204.200	651.913	722.996
204.201	651.913	711.653
204.201	651.913	716.656
204.201	651.913	722.694
204.201	651.913	722.996
204.202	651.911	711.653
204.202	651.911	716.656
204.202	651.911	722.646
204.202	651.911	722.908
204.203	651.911	711.670
204.203	651.911	722.646
204.203	651.911	722.908

XENTRY

204.207	646.811	716.608
204.207	646.811	716.655
204.207	646.811	722.699
204.208	646.811	716.657
204.208	646.811	722.640
204.222	642.960	711.670
204.222	642.960	722.902
204.223	642.834	711.670
204.223	642.834	722.903
204.225	642.830	711.670
204.225	642.830	722.902
204.231	274.910	711.655
204.231	274.910	722.995
204.234	274.920	711.655
204.234	274.920	722.995
204.241	271.950	711.656
204.241	271.950	716.635
204.241	271.950	722.695
204.241	271.950	722.997
204.245	271.910	711.655
204.245	271.910	716.607
204.245	271.910	722.695
204.246	271.952	716.635
204.246	271.952	722.695
204.246	271.952	722.997
204.247	271.860	716.656
204.247	271.860	722.618
204.247	271.860	722.997
204.248	271.860	711.653
204.248	271.860	711.655
204.248	271.860	716.607
204.248	271.860	716.612
204.248	271.860	722.696
204.248	271.860	722.997
204.249	271.820	711.653
204.249	271.820	711.655
204.249	271.820	716.607
204.249	271.820	716.612
204.249	271.820	722.696
204.249	271.820	722.997
204.252	272.921	711.656
204.252	272.921	716.636
204.252	272.921	722.998

# XENTRY

204.254	272.947	711.654
204.254	272.947	716.671
204.254	272.947	722.999
204.256	272.961	722.906
204.257	276.957	722.906
204.277	156.985	722.907
204.277	156.985	722.930
204.282	651.912	722.965
204.289	642.961	722.962
204.292	642.832	722.962
204.302	651.911	711.653
204.302	651.911	716.656
204.302	651.911	722.646
204.302	651.911	722.908
204.303	651.911	711.670
204.303	651.911	722.646
204.303	651.911	722.908
204.331	274.910	711.655
204.331	274.910	722.995
204.347	271.860	722.618
204.347	271.860	722.997
204.349	271.820	711.653
204.349	271.820	711.655
204.349	271.820	716.612
204.349	271.820	722.997
204.357	276.957	722.906
204.377	156.985	722.907
204.377	156.985	722.930
204.388	276.957	722.960
204.901	651.913	711.653
204.901	651.913	716.658
204.901	651.913	722.908
204.901	651.913	722.996
204.901	651.916	711.653
204.901	651.916	716.658
204.901	651.916	722.908
204.901	651.916	722.996
204.902	651.916	711.653
204.902	651.916	716.658
204.902	651.916	722.908
204.904	651.912	722.965
204.956	272.991	722.906
204.981	272.948	722.964

# XENTRY

204.982	651.912	722.965
204.983	642.961	722.962
204.984	651.912	722.965
204.987	272.971	722.960
204.988	276.957	722.960
204.992	642.832	722.962
204.993	642.835	722.966
204.997	651.912	722.965
207.302	651.911	711.653
207.302	651.911	716.656
207.302	651.911	722.646
207.302	651.911	722.908
207.303	651.911	711.670
207.303	651.911	722.646
207.303	651.911	722.908
207.322	642.836	722.902
207.323	642.838	722.903
207.347	271.860	722.618
207.347	271.860	722.997
207.348	271.860	711.655
207.348	271.860	716.607
207.348	271.860	716.612
207.348	271.860	722.696
207.348	271.860	722.997
207.355	276.957	722.906
207.356	272.961	722.906
207.356	272.988	722.906
207.357	272.982	722.906
207.357	272.984	722.906
207.359	276.957	722.906
207.372	273.966	722.904
207.373	278.922	722.909
207.388	276.957	722.960
207.402	651.911	711.653
207.402	651.911	716.656
207.402	651.911	722.646
207.402	651.911	722.908
207.403	651.911	711.670
207.403	651.911	722.646
207.403	651.911	722.908
207.422	642.836	722.902
207.423	642.838	722.903
207.447	271.860	722.618

XENTRY

207.447	271.860	722.997
207.448	271.860	711.655
207.448	271.860	716.612
207.448	271.860	722.696
207.448	271.860	722.997
207.455	276.957	722.906
207.456	272.961	722.906
207.456	272.988	722.906
207.457	272.984	722.906
207.459	276.957	722.906
207.472	273.966	722.904
207.473	278.922	722.909
209.308	646.966	716.654
209.308	646.966	722.699
209.316	612.962	716.649
209.316	612.962	716.654
209.316	612.962	722.634
209.316	612.962	722.640
209.316	612.967	716.649
209.316	612.967	716.654
209.316	612.967	722.634
209.316	612.967	722.640
209.320	642.910	716.653
209.320	642.910	722.902
209.341	271.955	716.631
209.341	271.955	722.695
209.342	113.994	716.628
209.342	113.994	716.631
209.342	113.994	722.649
209.342	113.994	722.695
209.342	271.940	716.628
209.342	271.940	716.631
209.342	271.940	722.649
209.342	271.940	722.695
209.343	271.942	716.424
209.343	271.942	716.628
209.343	271.942	722.695
209.354	272.940	716.669
209.354	272.940	722.999
209.356	272.960	716.664
209.356	272.960	722.906
209.361	112.912	716.623
209.361	112.912	716.634

XENTRY

209.361	112.912	716.638
209.361	112.912	722.696
209.365	112.955	722.618
209.372	273.967	722.904
209.375	113.968	722.633
209.375	113.968	722.901
209.376	113.987	722.636
209.376	113.987	722.907
209.376	113.988	722.636
209.376	113.988	722.907
209.377	156.982	722.907
209.420	642.910	716.653
209.420	642.910	722.902
209.441	271.955	716.631
209.441	271.955	722.695
209.442	271.940	716.424
209.442	271.940	716.628
209.442	271.940	716.631
209.442	271.940	722.695
209.454	272.940	716.669
209.454	272.940	722.999
209.456	272.960	716.664
209.456	272.960	722.906
209.461	112.912	716.424
209.461	112.912	716.623
209.461	112.912	716.634
209.461	112.912	716.638
209.461	112.912	722.696
209.465	112.955	722.618
209.472	273.967	722.904
209.475	113.968	722.633
209.475	113.968	722.901
209.476	113.987	722.636
209.476	113.987	722.907
209.476	113.988	722.636
209.476	113.988	722.907
209.477	156.982	722.907
210.003	604.917	717.416
210.003	604.917	717.418
210.003	604.917	722.602
210.003	604.917	722.603
210.004	604.912	717.416
210.004	604.912	717.418

# XENTRY

210.004	604.912	722.441
210.004	604.912	722.602
210.004	604.912	722.603
210.006	611.961	716.640
210.006	611.961	716.647
210.006	611.961	716.649
210.006	611.961	716.651
210.006	611.961	717.466
210.006	611.961	722.614
210.006	611.961	722.699
210.007	611.961	716.601
210.007	611.961	716.603
210.007	611.961	716.604
210.007	611.961	717.466
210.007	611.961	722.614
210.007	611.961	722.699
210.010	605.912	717.417
210.010	605.912	722.442
210.010	605.912	722.601
210.010	605.912	722.602
210.015	605.962	717.460
210.015	605.962	717.466
210.016	612.961	716.641
210.016	612.961	716.648
210.016	612.961	716.649
210.016	612.961	722.608
210.016	612.961	722.634
210.017	602.982	717.460
210.017	602.982	717.466
210.017	602.982	722.605
210.017	602.982	722.613
210.020	606.912	717.446
210.020	606.912	722.438
210.020	606.912	722.600
210.025	606.962	722.608
210.026	613.961	722.626
210.035	111.942	716.620
210.035	111.942	717.417
210.035	111.942	717.418
210.035	111.942	722.443
210.035	111.942	722.602
210.035	111.942	722.615
210.037	111.970	717.417

# XENTRY

210.037	111.970	722.440
210.037	111.970	722.600
210.045	111.947	716.622
210.045	111.947	717.460
210.045	111.947	722.605
210.045	111.947	722.616
210.045	111.974	716.622
210.045	111.974	717.460
210.045	111.974	722.605
210.045	111.974	722.616
210.048	111.957	716.622
210.048	111.957	716.630
210.048	111.957	722.616
210.053	104.945	717.441
210.053	104.945	717.460
210.053	104.945	722.424
210.053	104.945	722.510
210.053	104.945	722.604
210.055	104.995	722.328
210.055	104.995	722.329
210.055	104.995	722.509
210.055	104.995	722.605
210.055	104.995	722.629
210.061	112.911	716.621
210.061	112.911	717.463
210.061	112.911	722.609
210.061	112.911	722.698
210.062	112.914	716.623
210.062	112.914	716.634
210.062	112.914	722.696
210.062	112.914	722.698
210.063	112.921	716.623
210.063	112.921	716.634
210.063	112.921	717.462
210.063	112.921	722.606
210.063	112.921	722.617
210.065	112.941	722.607
210.065	112.941	722.618
210.070	113.940	722.623
210.070	113.940	722.632
210.072	119.980	722.625
210.072	119.980	722.627
210.072	119.985	722.625

XENTRY

210.072	119.985	722.627
210.074	113.980	722.624
210.074	113.980	722.636
210.081	112.921	722.665
210.082	112.941	722.664
210.082	112.941	722.665
210.083	113.940	722.669
210.083	113.940	722.670
210.206	611.961	716.640
210.206	611.961	716.647
210.206	611.961	716.651
210.206	611.961	717.466
210.206	611.961	722.614
210.206	611.961	722.699
210.210	605.912	717.417
210.210	605.912	722.601
210.215	605.962	717.460
210.215	605.962	717.466
210.216	612.961	716.641
210.216	612.961	716.648
210.216	612.961	716.649
210.216	612.961	722.608
210.216	612.961	722.634
210.217	602.982	717.460
210.217	602.982	717.466
210.217	602.982	722.605
210.217	602.982	722.613
210.225	606.962	722.608
210.226	613.961	722.626
210.235	111.942	716.620
210.235	111.942	717.417
210.235	111.942	717.418
210.235	111.942	722.602
210.235	111.942	722.615
210.237	111.970	717.417
210.237	111.970	722.600
210.245	111.947	716.622
210.245	111.947	717.460
210.245	111.947	722.605
210.245	111.947	722.616
210.248	111.957	716.622
210.248	111.957	716.630
210.248	111.957	722.616

# XENTRY

210.261	112.911	716.621
210.261	112.911	717.463
210.261	112.911	722.609
210.261	112.911	722.698
210.262	112.914	716.623
210.262	112.914	716.634
210.262	112.914	722.696
210.262	112.914	722.698
210.263	112.921	716.623
210.263	112.921	716.634
210.263	112.921	722.617
210.265	112.941	722.607
210.265	112.941	722.618
210.270	113.940	722.623
210.270	113.940	722.632
210.272	119.985	722.622
210.272	119.985	722.625
210.274	113.980	722.624
210.274	113.980	722.636
210.281	112.921	722.665
210.282	112.941	722.664
210.283	113.940	722.669
210.283	113.940	722.670
210.606	605.912	717.466
210.606	605.912	722.614
210.606	605.912	722.699
210.606	611.961	717.466
210.606	611.961	722.614
210.606	611.961	722.699
210.610	605.912	717.417
210.610	605.912	722.601
210.610	605.912	722.605
210.616	612.961	722.634
210.617	602.982	717.460
210.617	602.982	717.466
210.617	602.982	722.605
210.617	602.982	722.613
210.663	112.921	716.623
210.663	112.921	717.462
210.663	112.921	722.606
210.663	112.921	722.617
211.004	646.951	716.604
211.004	646.951	716.606

XENTRY

211.004	646.951	722.699
211.006	646.961	716.649
211.006	646.961	722.699
211.007	646.820	716.654
211.007	646.820	722.699
211.007	646.821	716.654
211.007	646.821	722.699
211.008	646.821	716.654
211.008	646.821	722.640
211.016	647.961	716.649
211.016	647.961	716.654
211.016	647.961	722.640
211.020	642.920	716.646
211.020	642.920	716.653
211.020	642.920	722.902
211.022	642.920	722.902
211.023	648.961	722.640
211.024	642.920	722.902
211.026	648.961	722.626
211.028	628.961	722.639
211.029	629.910	722.903
211.041	271.956	716.628
211.041	271.956	716.631
211.041	271.956	722.695
211.042	271.941	716.628
211.042	271.941	716.631
211.042	271.941	722.695
211.052	272.922	716.634
211.052	272.922	716.638
211.052	272.922	722.998
211.054	272.943	716.667
211.054	272.943	716.669
211.054	272.943	722.999
211.056	272.964	716.665
211.056	272.964	716.666
211.056	272.964	722.906
211.057	272.985	716.665
211.057	272.985	716.666
211.057	272.985	722.906
211.061	112.913	716.623
211.061	112.913	716.634
211.061	112.913	722.696
211.065	112.949	722.618

XENTRY

211.070	113.967	722.633
211.070	113.967	722.901
211.072	273.960	722.904
211.076	113.990	722.643
211.077	156.983	722.907
211.080	112.917	722.667
211.082	112.954	722.668
211.083	113.969	722.672
211.084	642.921	722.689
211.087	272.972	716.665
211.087	272.972	716.666
211.087	272.972	722.676
211.089	642.921	722.689
211.090	273.962	722.677
211.092	272.944	716.665
211.092	272.944	716.666
211.092	272.944	722.690
211.206	646.961	716.649
211.206	646.961	722.699
211.207	646.821	716.654
211.207	646.821	722.640
211.207	646.821	722.699
211.208	646.821	716.654
211.208	646.821	722.640
211.216	647.961	716.649
211.216	647.961	716.654
211.216	647.961	722.640
211.220	642.920	716.646
211.220	642.920	716.653
211.220	642.920	722.902
211.222	642.920	722.902
211.223	648.961	722.640
211.226	648.961	722.626
211.241	271.956	716.628
211.241	271.956	716.631
211.241	271.956	722.695
211.242	271.941	716.628
211.242	271.941	716.631
211.242	271.941	722.695
211.252	272.922	716.634
211.252	272.922	722.998
211.254	272.943	716.667
211.254	272.943	716.669

XENTRY

211.254	272.943	722.999
211.256	272.964	716.665
211.256	272.964	716.666
211.256	272.964	722.906
211.257	272.985	716.665
211.257	272.985	716.666
211.257	272.985	722.906
211.261	112.913	716.623
211.261	112.913	716.634
211.261	112.913	722.696
211.265	112.949	722.618
211.270	113.967	722.633
211.270	113.967	722.901
211.272	273.960	722.904
211.276	113.990	722.643
211.277	156.983	722.907
211.280	112.917	722.667
211.282	112.954	722.668
211.283	113.969	722.672
211.284	642.921	722.689
211.287	272.972	716.665
211.287	272.972	716.666
211.287	272.972	722.676
211.289	642.921	722.689
211.290	273.962	722.677
211.292	272.944	716.665
211.292	272.944	716.666
211.292	272.944	722.690
211.606	646.961	722.699
211.608	646.821	722.640
211.616	647.961	722.640
211.620	642.920	722.902
212.002	651.924	711.653
212.002	651.924	716.656
212.002	651.924	722.646
212.002	651.924	722.908
212.003	651.924	711.670
212.003	651.924	722.646
212.003	651.924	722.908
212.005	651.925	711.653
212.005	651.925	716.656
212.005	651.925	722.694
212.005	651.925	722.996

XENTRY

212.020	642.850	711.670
212.020	642.850	722.902
212.021	642.852	711.670
212.021	642.852	722.903
212.023	642.852	711.670
212.023	642.852	722.903
212.024	642.850	711.670
212.024	642.850	722.902
212.025	642.850	711.670
212.025	642.850	722.902
212.025	642.856	711.670
212.025	642.856	722.902
212.041	271.958	722.695
212.047	271.860	722.618
212.047	271.860	722.997
212.048	271.860	711.655
212.048	271.860	722.696
212.048	271.860	722.997
212.052	272.923	716.636
212.052	272.923	722.998
212.053	272.980	722.906
212.054	272.952	711.654
212.054	272.952	722.999
212.055	276.952	722.906
212.056	272.980	722.906
212.057	272.983	722.906
212.059	276.952	722.906
212.072	273.971	722.904
212.073	278.922	722.909
212.074	157.981	722.931
212.077	156.985	722.930
212.080	276.952	722.960
212.082	651.924	722.965
212.087	272.977	722.960
212.088	276.952	722.960
212.089	642.856	722.962
212.090	273.970	722.961
212.091	278.922	722.967
212.093	642.858	722.966
212.095	276.952	724.206
212.098	651.924	724.208
212.147	271.860	722.618
212.147	271.860	722.997

# XENTRY

212.148	271.860	711.655
212.148	271.860	722.696
...	...	...