

In-line injection pump parts

Example of spare parts list for U650 tractor pump application:

IN LINE INJECTION PUMP RO-PES 4A 90 D4 10 RS2240

0 810 894 002

Item	Description	Qty	Part Number
1	Delivery valve holder	4	1 413 372 075
2	Compression spring	4	1 414 613 013
3	Delivery valve	4	1 418 522 055
4	Plunjer and barrel assy	4	1 418 325 095
5	Control sleeve assy	4	1 816 336 014
5.1	Gear segment	1	1 816 336 015
5.2	Control sleeve (driver)	1	1 410 326 030
5.3	Screw (old type)	1	2 510 010 120
	Screw (new type)	1	1 813 417 002
5.4	Lock washer N4	1	4 916 680 005
7	Compression spring	4	1 414 618 005
8	Roller tappet ass.	4	1 418 720 023
8.1	Tappet	1	1 418 720 007
8.2	Hexagon nut	1	1 413 300 028
8.3	Hexagon screw	1	1 413 450 010
8.4	Straight pin	1	1 413 100 012
8.5	Roller	1	1 410 202 006
8.6	Roller sleeve	1	1 410 300 042
8.7	Sliding piece	1	1 413 120 090
9	Bearing 30204 (20x47x14 DIN 720)	1	1 900 910 202
11	Camshaft	1	1 416 124 311
12	Control rod	1	1 416 024 007
13	Overflow valve	1	1 417 413 012
14	Gasket	1	1 411 015 053
15	Gasket kit	1	1 819 014 000
15.1	Gasket	2	2 916 710 609
15.2	"O" Ring 17x2 mm	4	1 530 210 003
15.3	Gasket*	4	1 410 105 001
15.4	Gasket	7	2 916 710 602
15.5	Shaft sealing ring	1	1 818 282 000
15.6	Sealing gasket	1	1 811 075 000
15.7	"O" Ring 75x3 mm	1	1 900 210 163
15.8	Sealing gasket	1	1 411 073 000
15.9	Gasket	2	2 916 710 605
16	Pump housing ass.	1	1 815 124 005
17	Reducer	1	2 443 355 010
18	Protective cap	1	1 820 521 001
19	Closing assy.cover	1	1 415 624 158
20	Air filter ass.	1	1 857 104 001
21	Bearing and plate ass.	1	1 815 522 023
22	Clamping jaw	2	1 810 023 000
23	Clamping jaw	2	1 810 023 001
24	Threaded pin	3	1 413 502 000
25	Screw plug	1	1 413 461 010
26	Reducer	1	1 413 350 160
27	Delivery valve stop	4	1 413 121 009
28	Spring seat	4	1 410 114 022
29	Stotted washer	4	1 410 120 071
30	Capsule	4	1 410 551 036
31	Torx fillister screw	1	1 413 417 012
32	Woodruff key	1	NK1/6
	Equivalent Bosch	1	1 900 023 007
33	Hexagon nut 14x1,5 gr.8	1	2 915 020 004
34	Lock washer N 14	1	4 916 680 012
35	Screw M 6x16 gr. 8,8	4	2 910 022 197
36	Lock washer N 6	7	4 916 680 007
37	Hexagon nut M 6	3	2 915 012 007
38	Screw M 6x30 (Hollow bolt)	2	2 910 012 205
39	Screw	2	1 813 453 000
40	Stop ring	1	1 410 202 034
41	Stop ring	1	1 410 202 042
42	Shim 0,10 mm	*	1 410 102 625
42	Shim 0,12 mm	*	1 410 102 626
42	Shim 0,14 mm	*	1 410 102 627
42	Shim 0,16 mm	*	2 410 102 628
42	Shim 0,18 mm	*	3 410 102 629
42	Shim 0,50 mm	*	4 410 102 630
43	Shim 0,10 mm	**	1 410 101 610
43	Shim 0,12 mm	**	1 410 101 612
43	Shim 0,14 mm	**	1 410 101 614
43	Shim 0,16 mm	**	1 410 101 616
43	Shim 0,18 mm	**	1 410 101 618
43	Shim 0,50 mm	**	1 410 101 620
43	Shim 1,00 mm	**	1 410 101 630
43	Shim 0,30 mm	**	1 230 101 608
351	Protectiv cap	4	1 900 508 011
352	Protectiv cap	1	1 900 508 008
608	Protective sleeve	1	6 000 830 068
609	Protective sleeve	1	1 819 830 002

\* Depending on necessities. Must be replaced in acse of interventions at delivery valve element or connector.

\*\* Depending on necessities. Must be replaced in case of interventions at camshaft.

Item	Description	Qty	Part Number
1	Ass. Governor housing	1	1 825 121 009
1.1	Governor housing	1	1 825 121 000
1.2	Threaded sleeve	1	1 410 365 003
1.3	Bearing 30203 (DIN 720)	1	1 900 910 201
3	Governor cover complete assy	1	1 825 621 008
3.1	Governor cover assy.	1	1 825 621 001
3.2	Threaded pin M 6x50	1	1 423 400 024
3.3	Hexagon nut M6	2	2 915 012 007
3.4	Adjusting screw	1	1 823 410 011
		1	1 423 410 011
3.5	Tensioning lever	1	1 422 031 006
3.6	Spring retainer	1	1 420 506 101
3.7	Hexagon nut	1	1 423 300 030
3.8	Fork lever assy	1	1 421 933 048
3.9	Lever shaft	1	1 423 000 005
3.1	Capsule	2	1 420 505 040
3.11	Fulcrum lever assy	1	1 421 901 036
3.12	Locking washer	2	2 916 080 007
3.13	Sliding piece	1	1 423 200 020
3.14	Compression spring	1	1 424 641 001
3.15	Headless setscrew	1	1 423 401 000
3.16	Hexagon nut	1	1 423 300 020
3.17	Strap assy	1	1 421 901 152
3.18	Swivelling lever assy	1	1 422 013 036
3.18.1	Swivelling lever	1	1 422 013 035
3.18.2	Adjusting screw	1	1 423 413 000
3.18.3	Fork lever	1	1 421 933 129
3.18.4	Shaft	1	1 423 100 025
3.19	Bushing	2	1 820 328 011
3.2	Locking washer	2	2 916 080 015
3.21	Extension spring	1	1 424 650 005
3.22	Plain washer	1	2 916 012 014
3.23	Spring lock washer	1	4 916 680 007
3.24	Plain washer 1 mm	2	1 420 101 030
3.25	Control lever assy	1	C 420 360 052
3.26	Hex.screw M 6x20 8,8	1	2 911 062 201
3.27	Capsule	1	1 420 500 005
3.28	Cap nut	1	1 423 317 044
3.29	Cap nut	1	1 423 317 043
20	Flyweight ass.	1	1 828 194 004
21	Spring lock washer	1	1 420 151 001
22	Round nut	1	1 423 341 027
23	Slidind sleeve assy	1	1 420 322 026
24	Extension spring	1	1 424 650 009
25	Ass. Closing cover	1	1 821 060 002
26	Screw plug M 10x11	1	1 413 461 010
28	Gaskets Kit	1	1 829 011 000
28.1	Gasket	2	2 916 710 602
28.2	"O" ring 15x2,5 mm	2	1 900 210 013
28.3	"O" ring 11x3,4 mm	1	1 420 210 010
28.4	Gasket	2	2 916 710 607
28.5	Protective tube	2	1 420 707 001
28.6	Seal ring 52x3,4 mm	1	1 420 206 001
28.7	Gasket	1	2 916 710 605
28.8	Gasket 0,5 mm	1	1 421 015 007
28.9	Gasket 0,5 mm	1	1 429 999 001
28.1	Gasket	1	2 916 710 505
29	Threaded pin M 6x55	1	1 423 400 012
30	Hexagon nut M6	1	2 915 012 007
31	Woodruffkey 3x6,5	1	1 900 023 007
32	Strap	1	1 421 323 000
33	Washer UN 8 spring	1	4 916 680 009
34	Screw M 8x20 gr.58	1	2 910 010 242
35	Protective cap	1	1 420 524 000
36	Washer		
36.1	Shim 0,2 mm		1 520 101 603
36.2	Shim 0,3 mm	as required	1 520 101 607
36.3	Shim 0,4 mm		1 520 101 609
36.4	Shim 1 mm		1 420 101 635
37	Cheese head screw M 6x25-5.8	4	2 910 012 203
38	Cheese head screw M 6x40-5.8	2	2 910 011 209
39.1	Hex. Screw M 6x10 S-5.8	2	2 911 172 191
39.2	Hex. Screw M 6x10-5.8	2	2 911 052 191
40	Screw plug M 22x9,5	1	1 423 462 099

Item	Description	Qty	Part Number
1	Hand primer	1	1 847 222 001
2	Compression spring	2	2 444 615 006
3	Valve body	2	2 443 123 021
4	Compression spring	1	2 444 617 010
5	Ass. Pump housing	1	2 445 103 058
6	Ass. Roller tappet	1	1 842 120 004
7	Fitting	1	2 443 355 000
8	Gasket kit	1	1 849 011 000
8.1	Seal ring	1	2 440 105 000
8.2	Gasket	2	1 230 203 001
8.3	"O" Ring 5x1,5 mm (sec item 13)	1	1 900 210 100
9	Retainer	1	2 444 601 000
10	Pump plunjer	1	2 440 520 022
11	Screw plug	1	2 443 462 014
12	Pressure sprindle	1	2 443 100 000
13	"O" Ring 5x1,5 mm	1	1 900 210 100
14	Protective cap	2	1 900 508 008