

HIGH PICK ATTACHMENT FOR AUTOMATIC CLOTH ADVANCE SYSTEMS

The high pick system has been designed to work in conjunction with your existing AVL automatic cloth advance system. When installed, it will slow down the advancement of the cloth, thereby allowing for a higher pick count. Use the following instructions to modify your automatic cloth advance system to the high pick mode. Refer to the drawings in your original instructions for help with terminology.

Tools Required: 1/2" wrench and 1/8" allen wrench

First, you need to change the lower sprocket on the main automatic advance unit.

- 1.) Loosen the two bolts that hold the automatic advance housing to the loom frame.
- 2.) Remove the clip at the end of the main shaft.
- 3.) Remove the drive arm and attached pawl from the main shaft.
- 4.) Slide off the pick wheel assembly including the chain and sprocket.
- 5.) Locate the new pick wheel mount (it is the black plate about 3" long with a tube and small sprocket [9 teeth] welded onto it).
- 6.) Now locate the new (longer) chain and place it around the small sprocket on the new pick wheel mount.
- 7.) Place this new chain and pick wheel mount assembly onto the main shaft of the automatic advance housing.
- 8.) Replace the drive arm and clip on the main shaft.
- 9.) Now leave this assembly for the time being.

Next, it is necessary to modify the top drive assembly.

- 1.) Loosen the set screw on the hub of the large sprocket (48 teeth) and remove it from the loom.
- 2.) Place the new 60 tooth sprocket on the outer end of the new shaft and tighten securely in place. Make sure to locate the set screw on the flat part of the shaft.

Once the top drive assembly has been modified, you can install the chain, tension it, and tighten the automatic advance housing to the loom frame.

You can now refer to the following pick charts to obtain your desired pick count. Please note that mixing sprockets is possible to obtain even more variations in picks per inch.

Automatic Cloth Advance Pick Chart (inch)

Low Hybrid Automatic Advance Mode

Sprocket Configuration: 48 Tooth x 9 Tooth with Short Chain

Picks Per Inch	Pick Wheel #	Pin Position	Increment Click
5	18	8	6
5	22	8	6
5.5	26	8	7
5.75	20	8	5
5.75	24	8	6
5.75	32	8	8
6	30	7	7
6.5	22	7	5
6.75	24	7	5
6.75	28	7	6
7.5	26	5, 6	5
7.5	32	6	6
8	28	5	5
8.75	18	5, 6	3
8.75	30	4, 5	5
10.5	22	4, 5	3
11.5	24	3, 4	3
11.5	32	4, 5	4
12.25	26	3	3
13	18	2, 3, 4	2
13.5	28	3	3
14.5	20	4, 5	2
14.5	20	1, 2	2
15.25	32	2, 3	3
21.75	30	2	2
23.25	32	1	2
32	22	1, 2	1
34.75	24	1	1
37.75	26	1, 2	1
40.5	28	1	1
43.5	30	1	1

Automatic Cloth Advance Pick Chart (inch)

Regular Automatic Advance Mode

Sprocket Configuration: 48 Tooth x 13 Tooth with Short Chain

Picks Per Inch	Pick Wheel #	Pin Position	Increment Click
3.5	18	8	6
3.5	22	8	6
3.75	26	8	7
4	20	8	5
4	24	8	6
4	32	8	8
4.25	30	7	7
4.5	22	7	5
4.75	24	7	5
4.75	28	7	6
5.25	26	5, 6	5
5.25	32	6	6
5.5	28	5	5
6	18	5, 6	3
6	30	4, 5	5
7.25	22	4, 5	3
8	24	3, 4	3
8	32	4, 5	4
8.5	26	3	3
9	18	2, 3, 4	2
9.25	28	3	3
10	20	4, 5	2
10	20	1, 2	2
10.5	32	2, 3	3
15	30	2	2
16	32	1	2
22	22	1	1
24	24	1	1
26	26	1	1
28	28	1	1
30	30	1	1

Automatic Cloth Advance Pick Chart (inch)

High Pick Automatic Advance Mode

Sprocket Configuration: 60 Tooth x 9 Tooth with Long Chain

Picks Per Inch	Pick Wheel #	Pm Position	Increment Click
6.5	18	8	5
6.5	22	8	6
7	26	8	7
7.5	20	8	5
7.5	24	8	6
7.5	32	8	8
8	30	7	7
8.25	22	7	5
8.75	24	7	5
8.75	28	7	6
9.75	26	5, 6	5
9.75	32	6	6
10	28	5	5
11	18	5, 6	3
11	30	4, 5	5
13.5	22	4, 5	3
14.75	24	3, 4	3
14.75	32	4, 5	4
15.75	26	3	3
16.75	18	2, 3, 4	2
17	28	3	3
18.5	20	4, 5	2
18.5	20	1, 2	2
19.5	32	2, 3	3
27.75	30	2	2
29.6	32	1	2
40.75	22	1, 2	1
44.5	24	1	1
48	26	1, 2	1
51.75	28	1	1
55.5	30	1	1

Automatic Cloth Advance Pick Chart (inch)

High Hybrid Automatic Advance Mode

Sprocket Configuration: 60 Tooth x 13 Tooth with Long Chain

Picks Per Inch	Pick Wheel #	Pin Position	Increment Click
4	18	8	5
4	22	8	6
4.5	26	8	7
4.75	20	8	5
4.75	24	8	6
4.75	32	8	8
5.5	22	7	5
5.75	24	7	5
5.75	28	7	6
5.75	30	7	7
6.25	26	5, 6	5
6.25	32	6	6
6.5	28	5	5
7.25	18	5, 6	3
7.25	30	4, 5	5
8.75	22	4, 5	3
9.5	24	3, 4	3
9.5	32	4, 5	4
10.25	26	3	3
10.75	18	2, 3, 4	2
11	28	3	3
12	20	1, 2	2
12	20	4, 5	2
12.5	32	2, 3	3
18	30	2	2
19.25	32	1	2
26.5	22	1, 2	1
28.75	24	1	1
31.25	26	1, 2	1
33.5	28	1	1
36	30	1	1

Automatic Advance High Pick Kit

- _____ 60 Tooth Upper Sprocket
- _____ 9 Tooth Ratchet Mount
- _____ High Pick Chain PDL FDL
- _____ High Pick Instructions with **ALL** Pick Charts

Packed by: _____

Date: _____

- 1.) Check upper sprocket with top drive shaft. Must spin freely. Ream sprocket if necessary.
- 2.) Check Ratchet Mount with pick wheels for screw hole alignment.
- 3.) Check Chain against 9 Tooth Ratchet Mount.