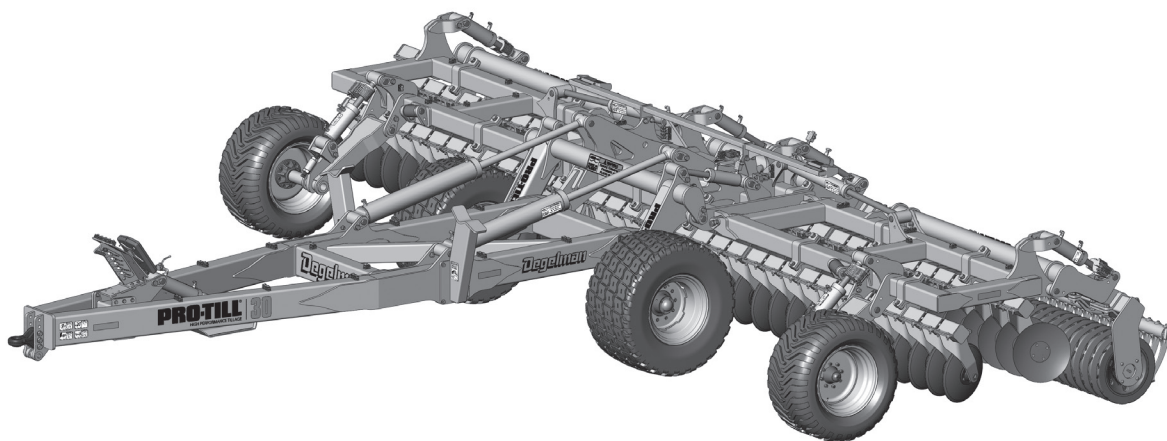


PRO-CAST 80

PRECISION GRANULAR APPLICATOR



PRO-TILL® 30 | 36

HIGH PERFORMANCE TILLAGE

143087 v1.1

DEGELMAN INDUSTRIES LP
BOX 830-272 INDUSTRIAL DRIVE,
REGINA, SK, CANADA, S4P 3B1
FAX 306.543.2140 PH 306.543.4447
1.800.667.3545 DEGELMAN.COM

PRO-CAST 80
PRO-TILL 30/36 DISTRIBUTION KIT

Overview of Mounting Pro-Cast Applicator

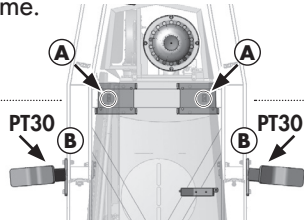
Mounting Steps

The following is an overview and suggested guide for mounting a Pro-Cast Applicator to a Pro-Till 30/36.

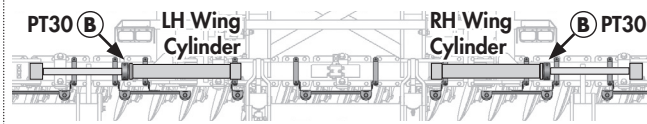
(Refer to the overview and part pages for general installation locations and component breakdowns.)

Pro-Till Preparation:

- A. On some earlier Pro-Till models, two center hose clamp weld plates will interfere with the front legs of the Pro-Cast and need to be cut off *(and the welds ground flush)*. The Pro-Cast legs can then be clamped properly to the Pro-Till frame. Hoses should be routed behind Pro-Cast legs.



- B. On **PT 30 models below SN: PTL5934 only**, the two **Wing Carrier Assemblies** need to be replaced with the new ones supplied. Also, a **Depth Stop** needs to be added to both of the **PT 30 Wing Cylinders** to limit stroke.



Pro-Cast to X-Frame Mounting:

1. Clean and prepare your Pro-Till, as desired, for mounting the Pro-Cast applicator & kit components.
2. Center the main Pro-Cast unit *(legs attached)* over the Pro-Till X-Frame and lower into place.
3. Secure the front legs with the appropriate front bolt plates and 1/2" x 12" bolts / hardware.
4. Secure the rear legs with the appropriate RH/LH bolt plates and 1/2" x 10" bolts / hardware.

Hydraulic Hoses and ISOBUS Cable Routing:

5. Hydraulic hoses and ISOBUS Cable will come installed. Secure hydraulic hoses and ISOBUS cable to the hitch frame with zip-ties. Follow existing hydraulic hose routing.

IMPORTANT: Ensure that the ISOBUS cable is supported as it comes out of the ECU and secured to the hitch frame so that it does not pull on the ECU.

Distribution Hose Routing Bar Bracket:

6. Center and install the Distribution Hose Routing Bar Bracket and also the SMV sign hose protector mounted on the rear beam of the Pro-Till X-Frame behind the Pro-Cast Applicator.

Center Frame Hose Slider Bracket:

7. Install the Center Frame Hose Slider Bracket onto the front beam of the center frame.

Wing Frame Slider Bars (LH & RH):

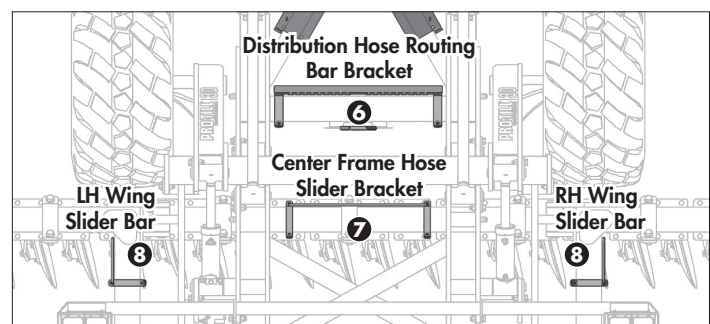
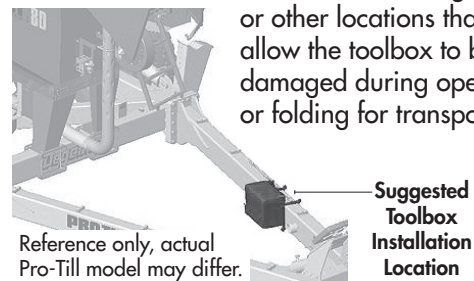
8. Install the Slider Bars on the LH & RH wing frames in position shown in reference image below. Install bracket towards front of frame to ensure it will not impact light bar when folding into transport.

Deflector Mounting Brackets:

9. Pre-assemble and install the deflector bracket assemblies by attaching the correct clamp style (A or B) onto the correct deflector bracket bolt locations. The location overview pages show the positioning information for assembling these brackets and where they are to be installed on the Pro-Till. These brackets vary and are configured differently for the Pro-Till 30 and Pro-Till 36 models. Please pay attention to the configurations.

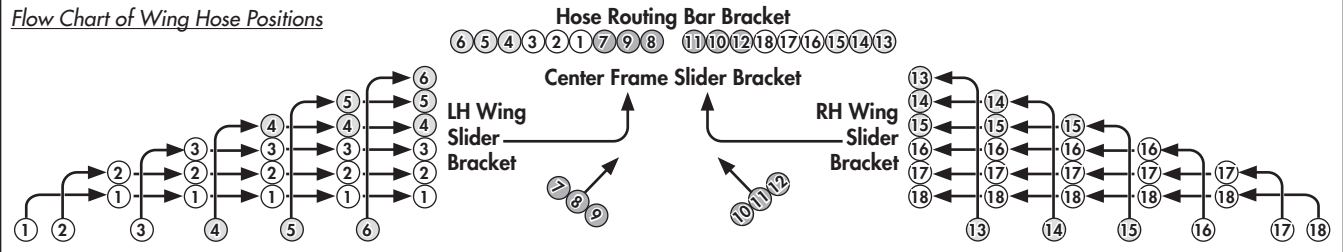
Toolbox Holder Bracket:

10. A suggested location to install the toolbox holder bracket and tool box is shown below. Customers may choose to locate the toolbox in a different location, but please be advised it is recommended to install facing inward as to avoid tractor wheel/track contact during turns, or other locations that may allow the toolbox to be damaged during operation or folding for transport.



Overview of Mounting Pro-Cast Applicator

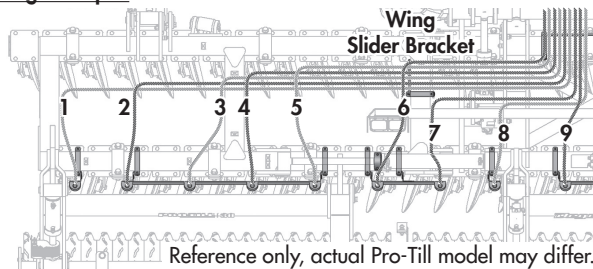
Flow Chart of Wing Hose Positions



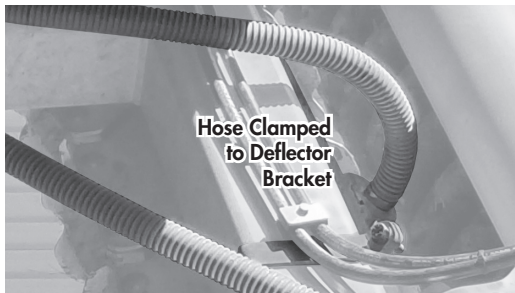
Distribution Hose Installation / Routing

The hose positions are numbered 1 thru 18 from left to right across the back of the machine. Hoses are rough cut and then trimmed to length at the distribution head. To optimize hose positions and avoid unnecessary crisscrossing, refer to the cross sectional hose routing diagrams which show how the hoses should be bundled together relative to each other. (Refer to [Location Overview Pages](#) for hose lengths.)

LH Wing Example:

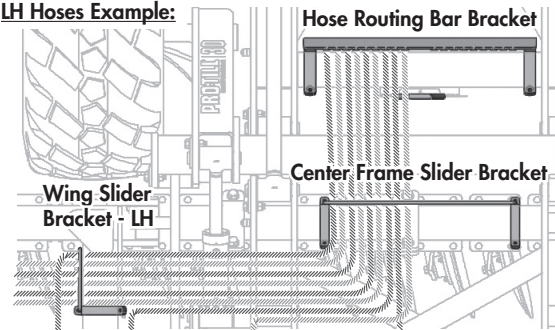


Secure the hoses in place on the **Deflector Mounting Brackets**, hoses 1-18 from left-to-right, and then route towards the front. (Refer to [Hose Routing Bracket details on the Location Overview Pages](#)).

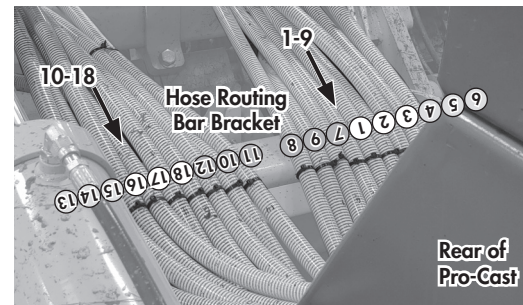
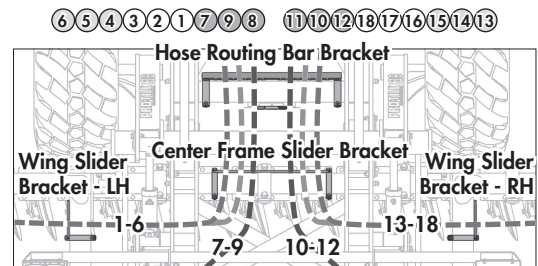


As the wing hoses are routed towards the center frame, groups of hoses, (1-6 on LH wing or 13-18 on RH wing), pass through a **Wing Slider Bracket** to prevent hoses from getting damaged when folding the Pro-Till into or out of transport position.

LH Hoses Example:

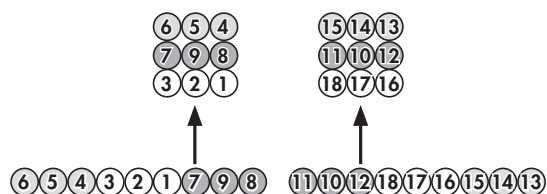
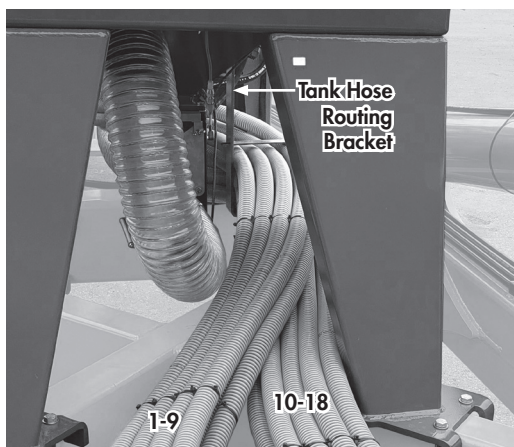


The hoses continue through a **Center Frame Slider Bracket** then on to the **Hose Routing Bar Bracket** and are attached with zip ties in a specific order as shown below.



Overview of Mounting Pro-Cast Applicator

The hoses continue between the rear mounting legs towards the tank mounted hose bracket (located on the RH side).



As the hoses are routed through the tank mounted hose bracket, the orientation of the hoses transitions into a square block of nine for both the RH & LH groups of hoses.

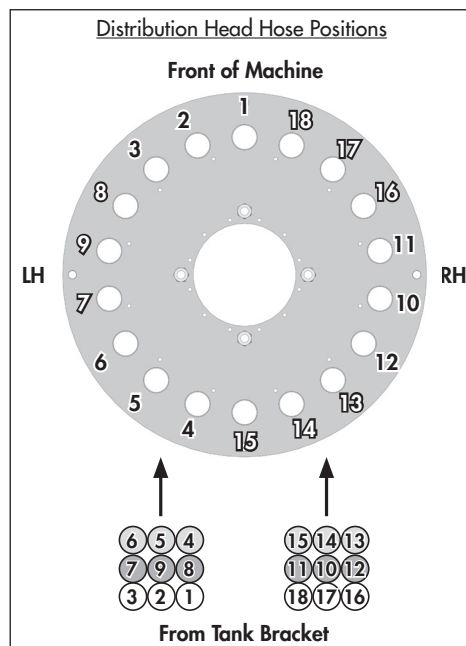


The hoses then continue through the front mounting legs up to the distribution head.

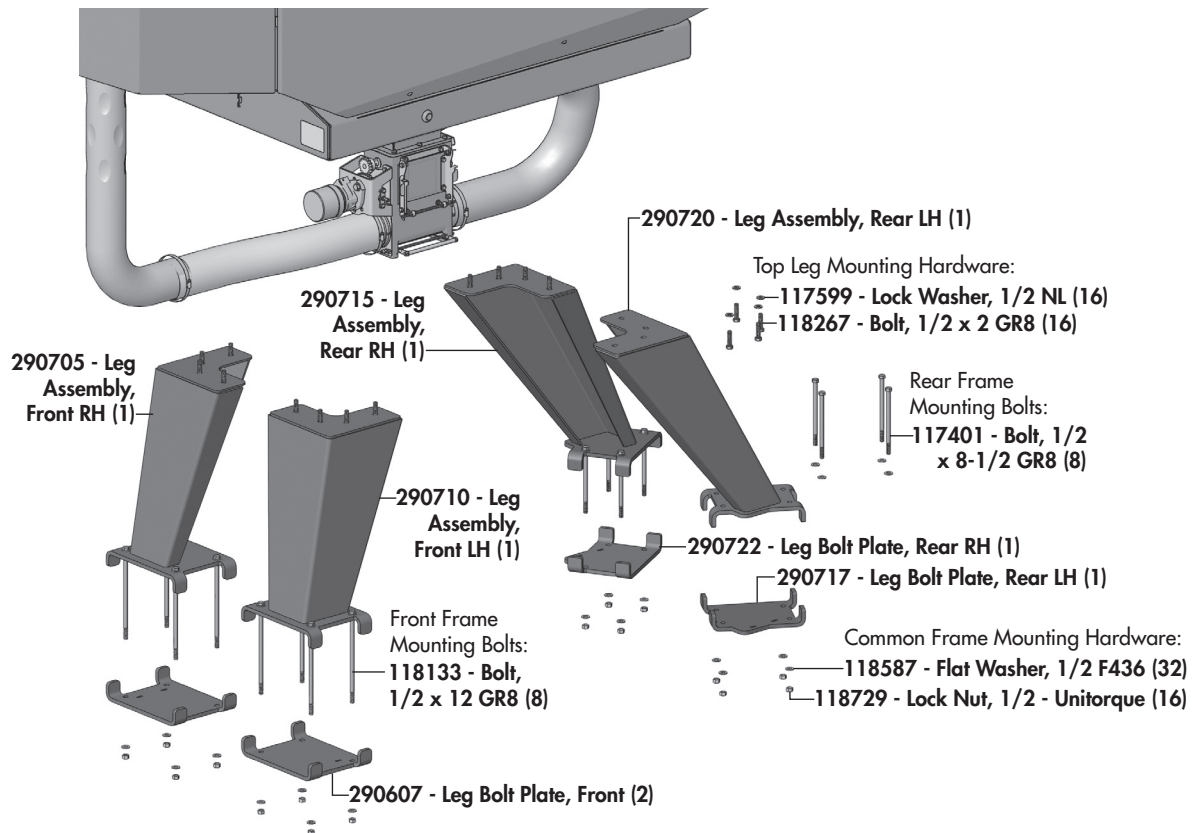
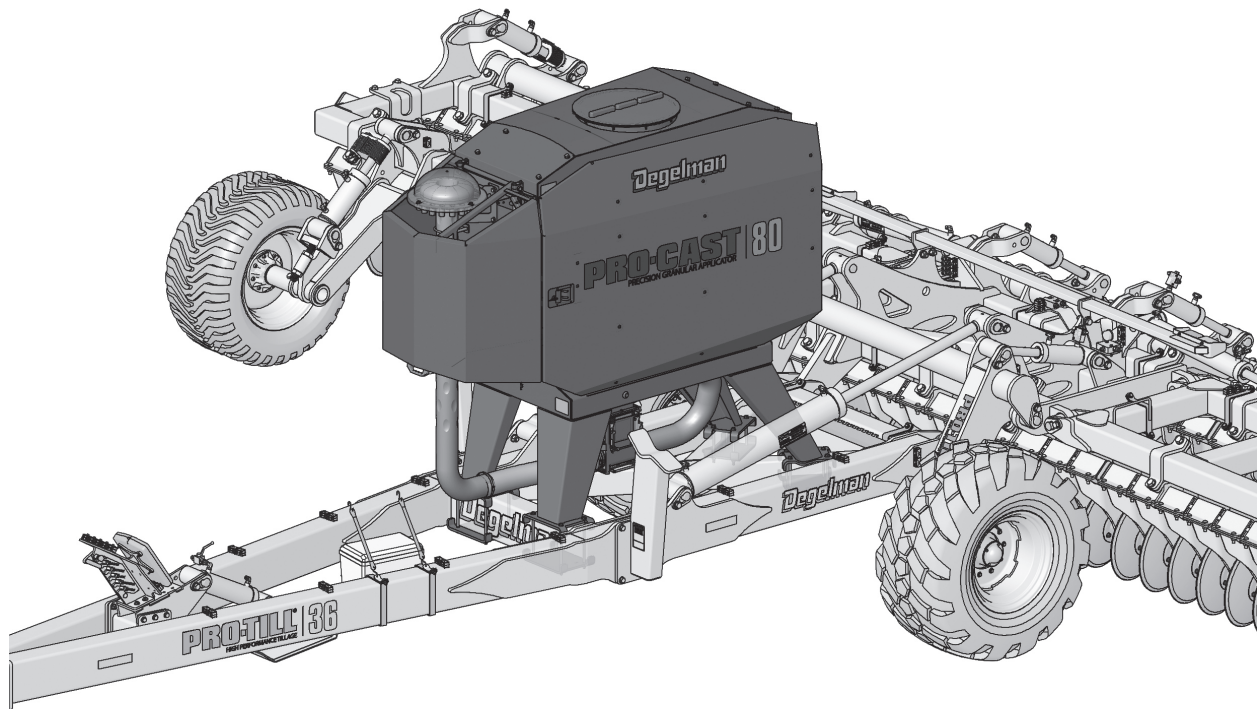
The distribution hoses have specific connection positions on the distribution manifold. Each hose (1-18) has a specific attachment location.

(Refer to [Location Overview Pages](#) for hose lengths.)

NOTE: Before trimming the hoses to length, fold the machine to ensure no changes are required. Use caution and observe pinch points while folding. Inspect hose connections, routings and appearances. Once satisfied, trim hoses as required.

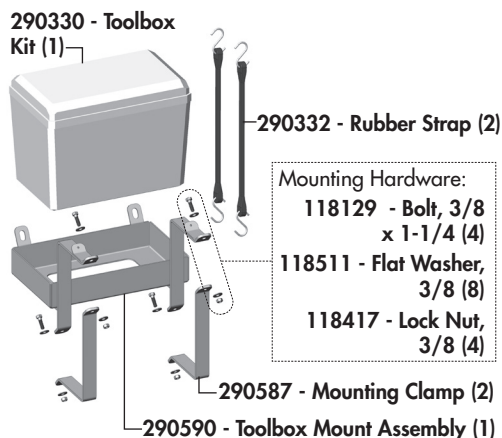


Pro-Cast Leg Component & Mounting Location

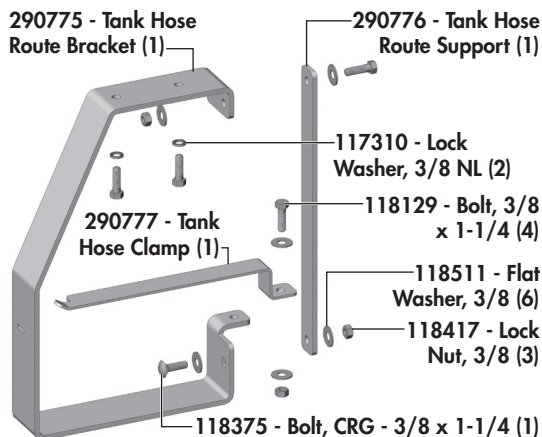


Common Bracket Components

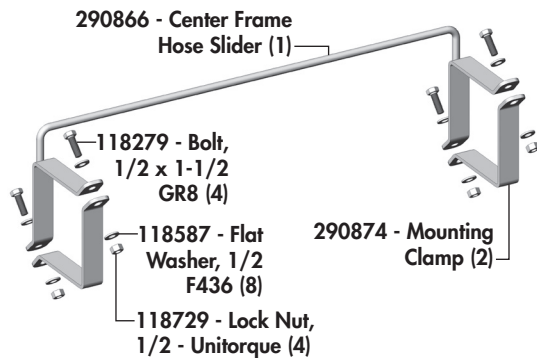
Toolbox Kit and Bracket Components



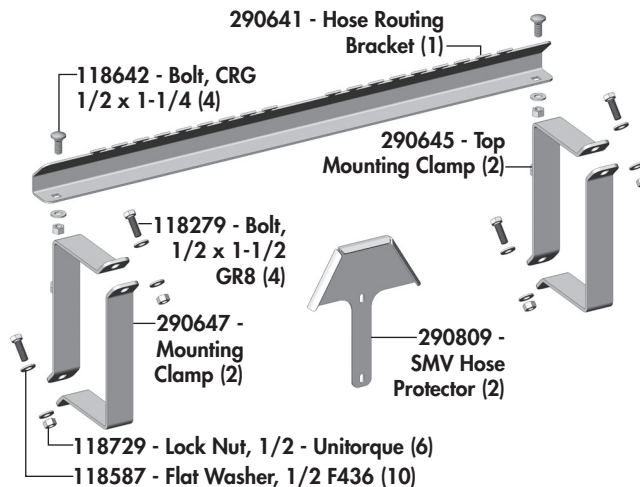
Tank Mounted Hose Routing Bracket



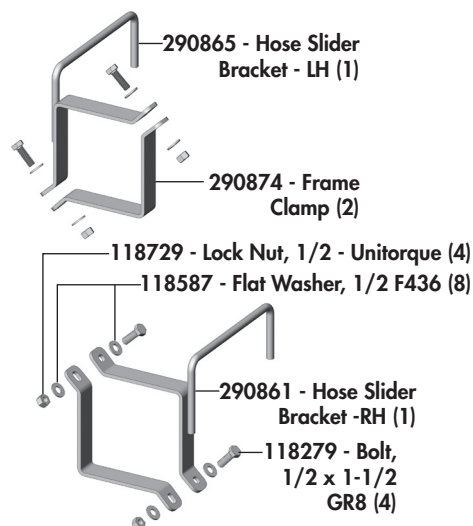
Center Frame Hose Slider Assembly



Distribution Hose Routing Bar Bracket

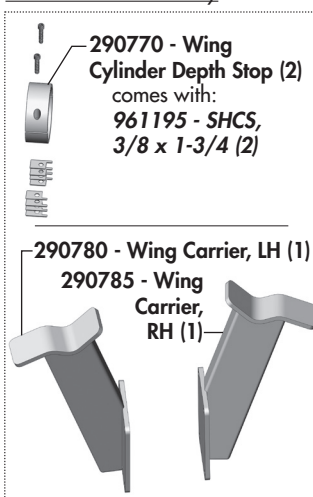


Wing Frame Slider Brackets



Other Components

Pro-Till 30 Models Only



290138 - Distribution Head Assembly (1)



101044 - Hose Clamp (18)



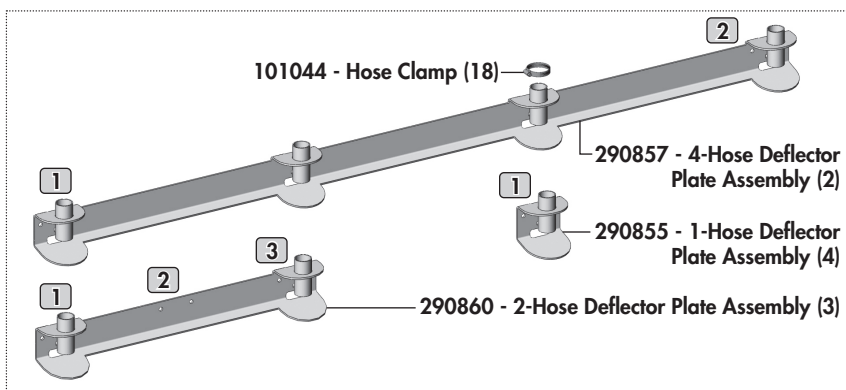
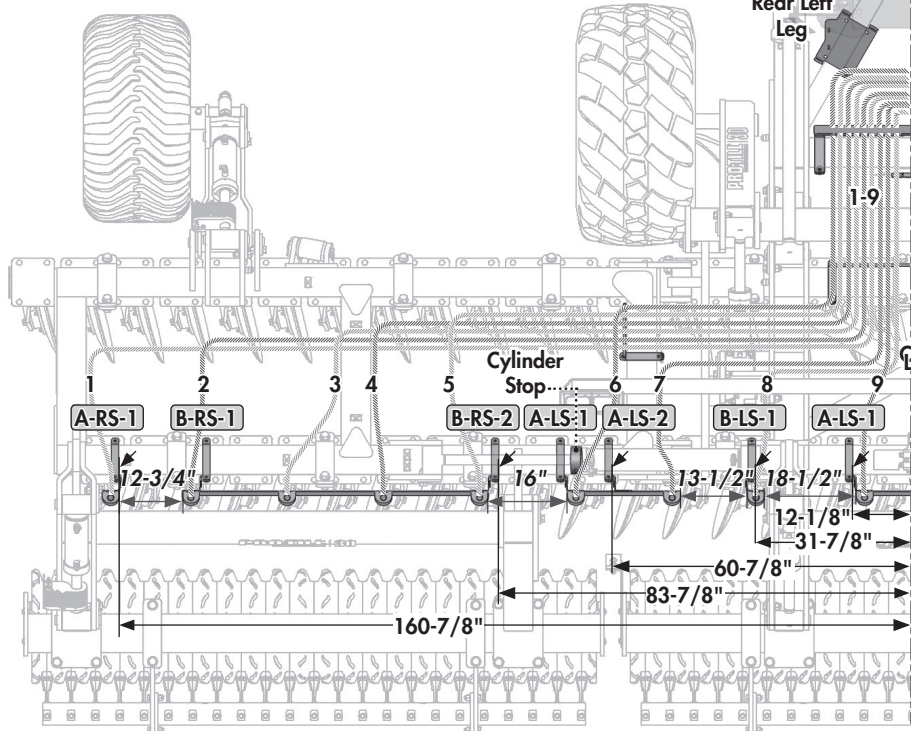
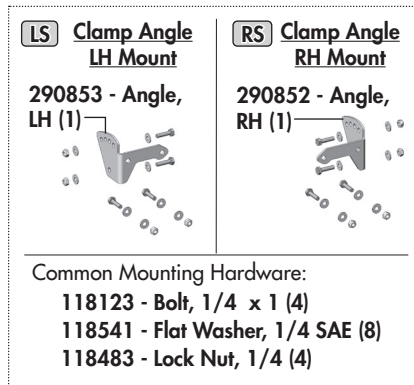
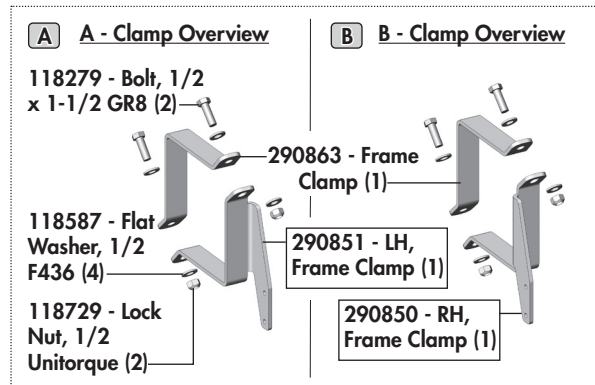
143451 - Rate Decal, Pro-Till 30 (1)

Pro-Till 30		Rate Decal	
Model	Rate	Model	Rate
30-100	100	30-100	100
30-125	125	30-125	125
30-150	150	30-150	150
30-175	175	30-175	175
30-200	200	30-200	200
30-225	225	30-225	225
30-250	250	30-250	250
30-275	275	30-275	275
30-300	300	30-300	300

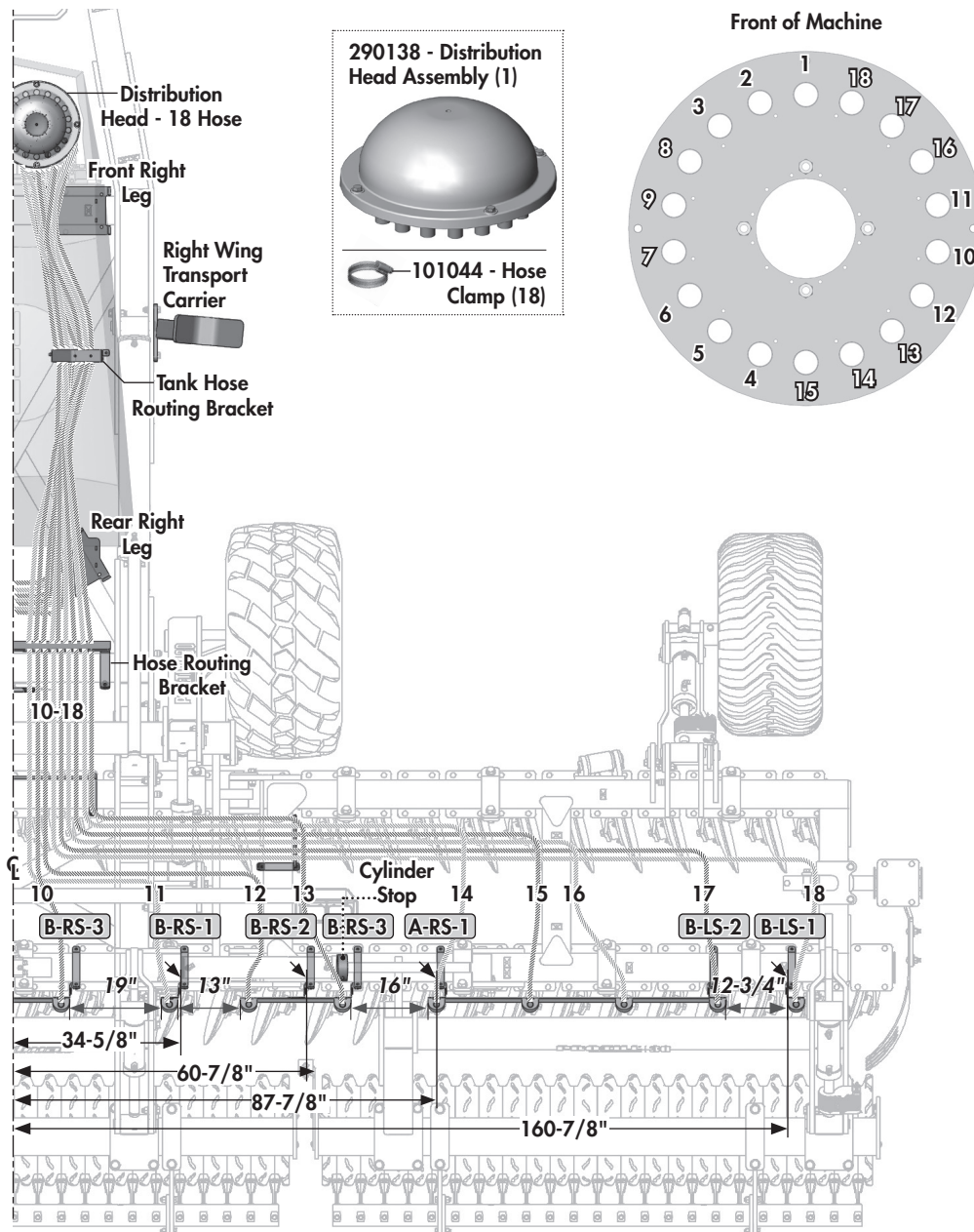
143453 - Rate Decal, Pro-Till 36 (1)

Pro-Till 36		Rate Decal	
Model	Rate	Model	Rate
36-100	100	36-100	100
36-125	125	36-125	125
36-150	150	36-150	150
36-175	175	36-175	175
36-200	200	36-200	200
36-225	225	36-225	225
36-250	250	36-250	250
36-275	275	36-275	275
36-300	300	36-300	300

Pro-Till 30/Pro-Cast Location Overview (LH)



Pro-Till 30/Pro-Cast Location Overview (RH)

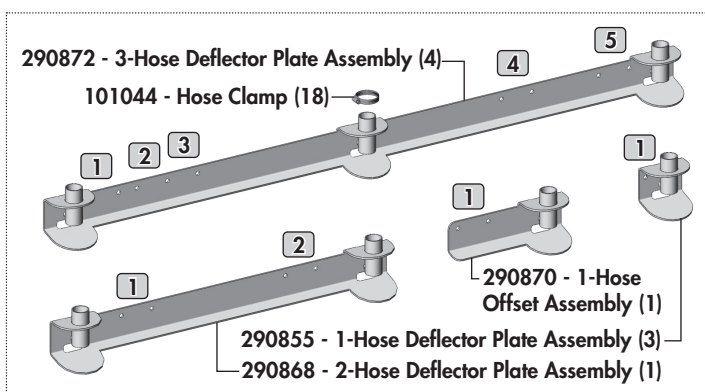
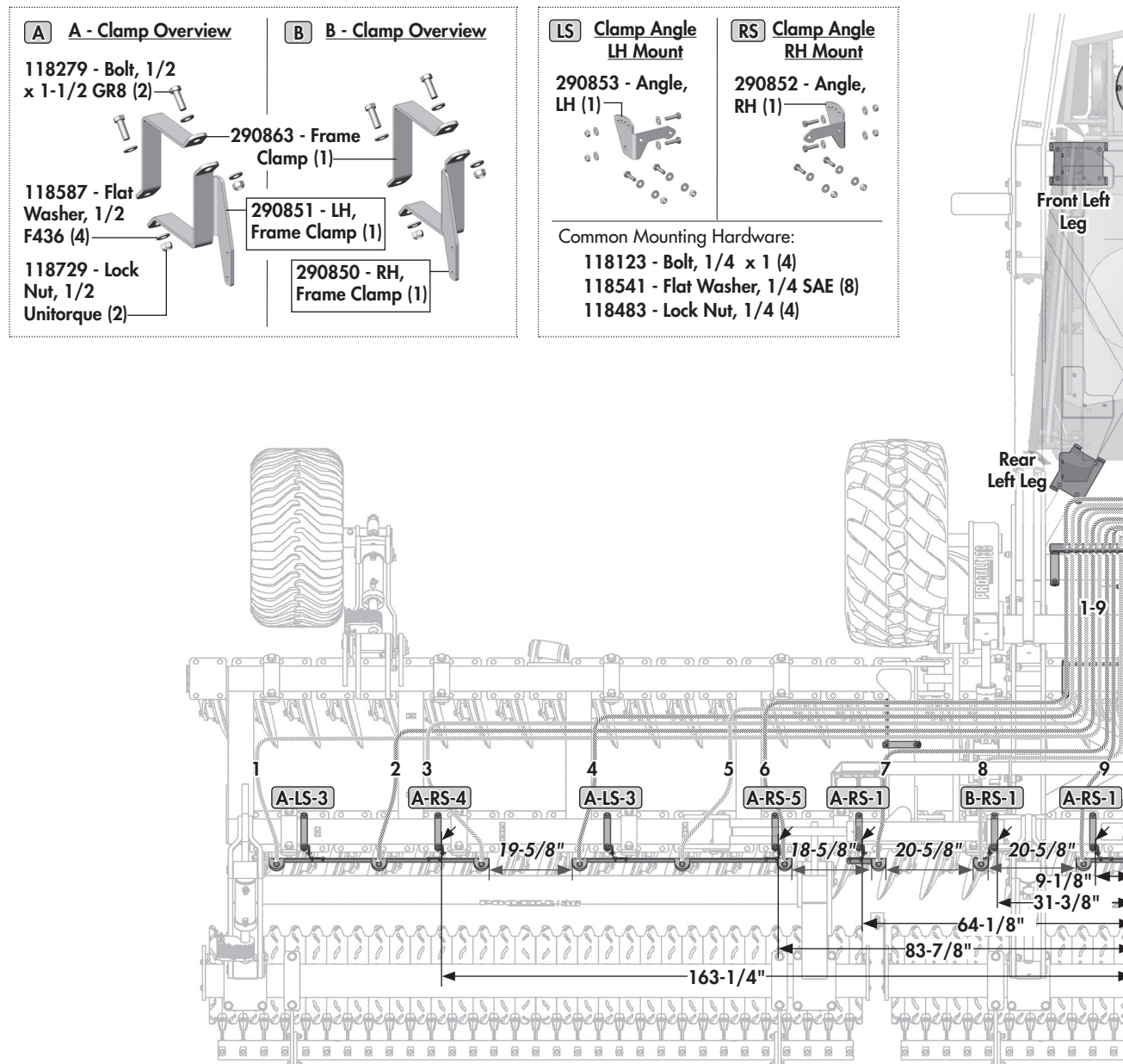


Approx. Hose Lengths PT30

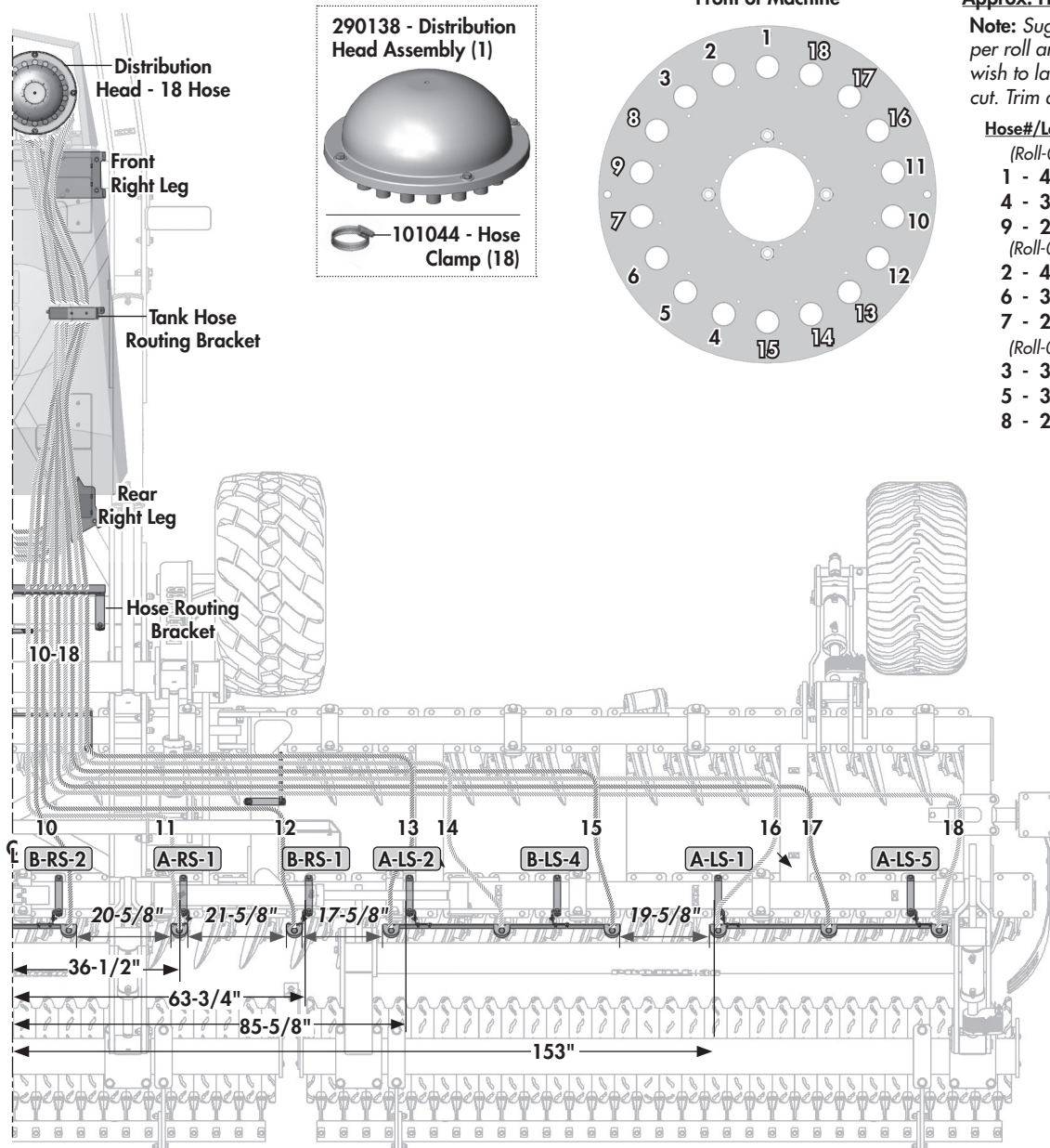
Note: Suggested hose cut lengths per roll are listed below. You may wish to label hoses as they are cut. Trim as required once routed.

Hose#/Length	Hose#/Length
(Roll-01)	(Roll-04)
1 - 41 ft	18 - 41 ft
4 - 34 ft	15 - 34 ft
9 - 25 ft	10 - 25 ft
(Roll-02)	(Roll-05)
2 - 40 ft	17 - 40 ft
6 - 31 ft	13 - 31 ft
7 - 28 ft	12 - 28 ft
(Roll-03)	(Roll-06)
3 - 38 ft	16 - 38 ft
5 - 34 ft	14 - 34 ft
8 - 28 ft	11 - 28 ft

Pro-Till 36/Pro-Cast Location Overview (LH)



Pro-Till 36/Pro-Cast Location Overview (RH)

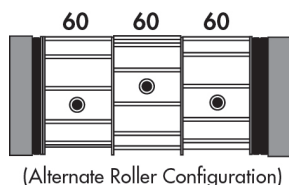
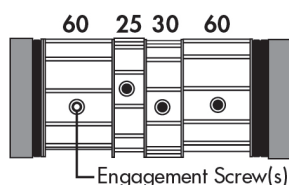


Approx. Hose Lengths PT36

Note: Suggested hose cut lengths per roll are listed below. You may wish to label hoses as they are cut. Trim as required once routed.

Hose#/Length	Hose#/Length
(Roll-01)	(Roll-04)
1 - 41 ft	18 - 41 ft
4 - 34 ft	15 - 34 ft
9 - 25 ft	10 - 25 ft
(Roll-02)	(Roll-05)
2 - 40 ft	17 - 40 ft
6 - 31 ft	13 - 31 ft
7 - 28 ft	12 - 28 ft
(Roll-03)	(Roll-06)
3 - 38 ft	16 - 38 ft
5 - 34 ft	14 - 34 ft
8 - 28 ft	11 - 28 ft

Metering Reference Charts



CALIBRATION FACTOR CHART	Product Density - lbs/bu (lbs/ft ³)						
	30 (24)	35 (28)	40 (32)	45 (36)	50 (40)	55 (44)	60 (48)
Roller Configuration	Calibration Factor - lbs/rev						
25	0.07	0.08	0.1	0.11	0.12	0.13	0.14
30	0.12	0.14	0.17	0.19	0.21	0.23	0.25
25 + 30	0.2	0.23	0.26	0.29	0.33	0.36	0.39
60	0.25	0.29	0.33	0.37	0.41	0.46	0.5
60 + 25	0.32	0.37	0.43	0.48	0.53	0.59	0.64
60 + 30	0.37	0.43	0.5	0.56	0.62	0.68	0.75
60 + 30 + 25	0.44	0.52	0.59	0.67	0.74	0.82	0.89
60 + 60	0.5	0.58	0.66	0.75	0.83	0.91	0.99
60 + 60 + 25	0.57	0.66	0.76	0.85	0.95	1.04	1.14
60 + 60 + 30	0.62	0.72	0.83	0.93	1.04	1.14	1.24
60 + 60 + 30 + 25	0.69	0.81	0.92	1.04	1.16	1.27	1.39
60 + 60 + 60	0.75	0.87	0.99	1.12	1.24	1.37	1.49

Pro-Till 30	Product Density - lbs/bu (lbs/ft ³)						
	30 (24)	35 (28)	40 (32)	45 (36)	50 (40)	55 (44)	60 (48)
Roller Configuration	Application Rate Range - lbs/acre (values shown are with implement speed at 10mph)						
25	5 - 9	6 - 10	7 - 12	8 - 13	9 - 15	10 - 16	11 - 18
30	9 - 15	11 - 18	12 - 20	14 - 23	15 - 26	17 - 28	18 - 31
25 + 30	15 - 24	17 - 28	19 - 32	22 - 36	24 - 40	27 - 45	29 - 49
60	18 - 31	22 - 36	25 - 41	28 - 46	31 - 51	34 - 56	37 - 61
60 + 25	24 - 40	28 - 46	32 - 53	36 - 60	40 - 66	44 - 73	48 - 79
60 + 30	28 - 46	32 - 54	37 - 61	42 - 69	46 - 77	51 - 85	55 - 92
60 + 30 + 25	33 - 55	39 - 64	44 - 73	50 - 83	55 - 92	61 - 101	66 - 110
60 + 60	37 - 61	43 - 72	49 - 82	55 - 92	61 - 102	68 - 113	74 - 123
60 + 60 + 25	42 - 70	49 - 82	56 - 94	63 - 106	70 - 117	77 - 129	84 - 141
60 + 60 + 30	46 - 77	54 - 90	61 - 102	69 - 115	77 - 128	85 - 141	92 - 154
60 + 60 + 30 + 25	51 - 86	60 - 100	69 - 114	77 - 129	86 - 143	94 - 157	103 - 172
60 + 60 + 60	55 - 111	65 - 129	74 - 148	83 - 166	92 - 184	101 - 203	111 - 221

For speeds other than 10mph, use **Target Application Rate x (Speed / 10mph)** then use this value for selection above.

Pro-Till 36	Product Density - lbs/bu (lbs/ft ³)						
	30 (24)	35 (28)	40 (32)	45 (36)	50 (40)	55 (44)	60 (48)
Roller Configuration	Application Rate Range - lbs/acre (values shown are with implement speed at 10mph)						
25	4 - 7	5 - 9	6 - 10	7 - 11	7 - 12	8 - 14	9 - 15
30	8 - 13	9 - 15	10 - 17	12 - 19	13 - 21	14 - 23	15 - 26
25 + 30	12 - 20	14 - 24	16 - 27	18 - 30	20 - 34	22 - 37	24 - 40
60	15 - 26	18 - 30	20 - 34	23 - 38	26 - 43	28 - 47	31 - 51
60 + 25	20 - 33	23 - 39	26 - 44	30 - 50	33 - 55	36 - 61	40 - 66
60 + 30	23 - 38	27 - 45	31 - 51	35 - 58	38 - 64	42 - 70	46 - 77
60 + 30 + 25	28 - 46	32 - 54	37 - 61	41 - 69	46 - 76	50 - 84	55 - 92
60 + 60	31 - 51	36 - 60	41 - 68	46 - 77	51 - 85	56 - 94	61 - 102
60 + 60 + 25	35 - 59	41 - 68	47 - 78	53 - 88	59 - 98	65 - 108	70 - 117
60 + 60 + 30	38 - 64	45 - 75	51 - 85	58 - 96	64 - 107	70 - 117	77 - 128
60 + 60 + 30 + 25	43 - 71	50 - 83	57 - 95	64 - 107	71 - 119	79 - 131	86 - 143
60 + 60 + 60	46 - 92	54 - 108	61 - 123	69 - 138	77 - 154	85 - 169	92 - 184

For speeds other than 10mph, use **Target Application Rate x (Speed / 10mph)** then use this value for selection above.