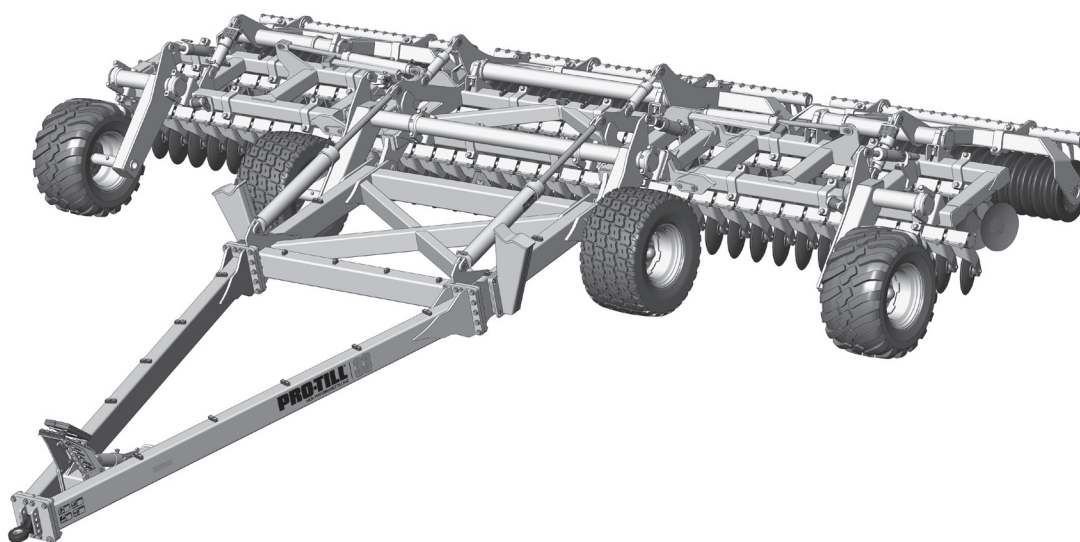


PRO-CAST 80

PRECISION GRANULAR APPLICATOR



PRO-TILL® 33 | 40

HIGH PERFORMANCE TILLAGE

143086 v2.0

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 33/40 DISTRIBUTION KIT

Overview of Mounting Pro-Cast Applicator

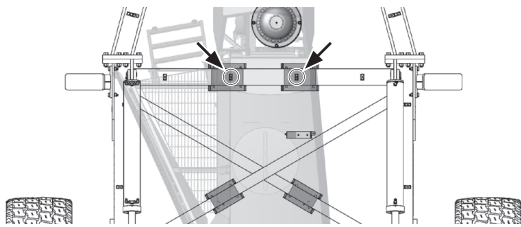
Mounting Steps

The following is an overview and suggested guide for mounting a Pro-Cast Applicator to a Pro-Till 33/40.

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

Pro-Till Frame Preparation:

On some Pro-Till models, there may be two welded plates located on the front center X-Frame beam (for hose clamps) that can interfere with the flush mounting of the Pro-Cast front support legs. These will need to be cut off and the welds ground flush so the front legs can clamp properly to the frame. The hyd hoses should be routed behind the Pro-Cast legs.



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.

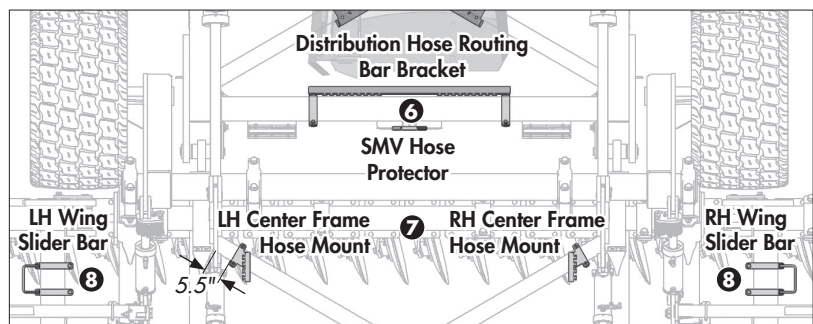
Hydraulic Hoses and ISOBUS Cable Routing:

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 Mount Brackets (LH & RH):

7. Install the LH & RH Hose Mount Routing Brackets onto the front corners of the center frame cross beams. (Approx 5.5" from the bracket edge to the nearest corner.)

Wing Frame Slider Brackets (LH & RH):

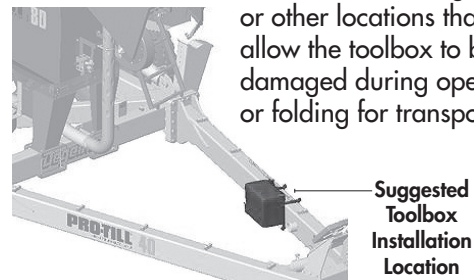
8. Install the Slider Brackets on the LH & RH wing frames in position shown in reference image below. Install bracket towards front of center frame to ensure it will not impact light bar when folding into transport.

Deflector Mounting Brackets:

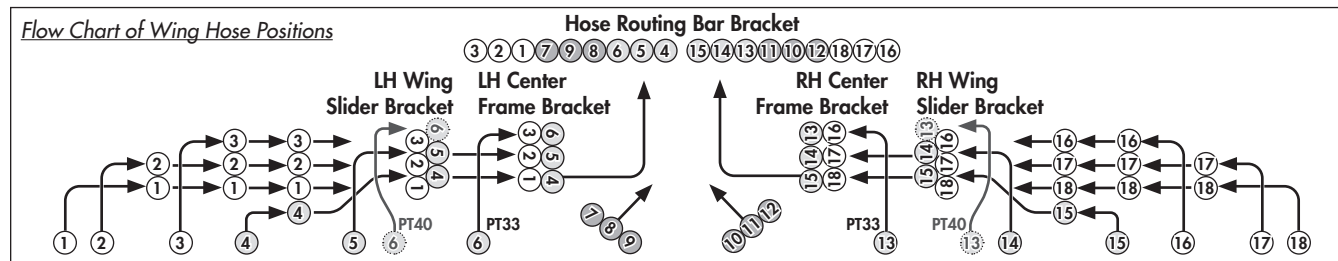
9. Pre-assemble and install the deflector bracket assemblies by attaching the correct clamp style (A or B) onto the correct deflector bracket bolt locations. The location overview pages show the positioning information for assembling these brackets and where they are to be installed on the Pro-Till. These brackets vary and are configured differently for the Pro-Till 33 and Pro-Till 40 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.



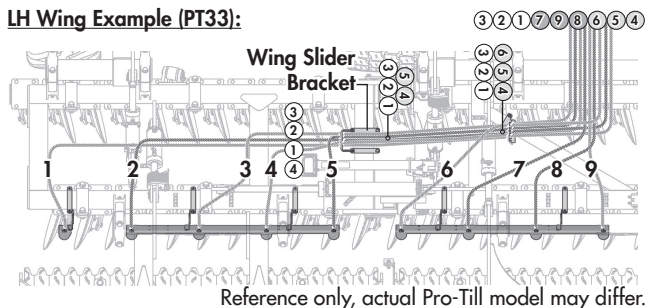
Overview of Mounting Pro-Cast Applicator



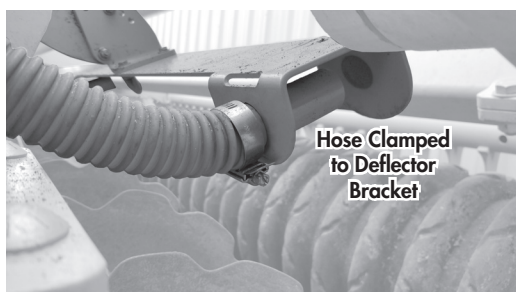
Distribution Hose Installation / Routing

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 (PT33):



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*).



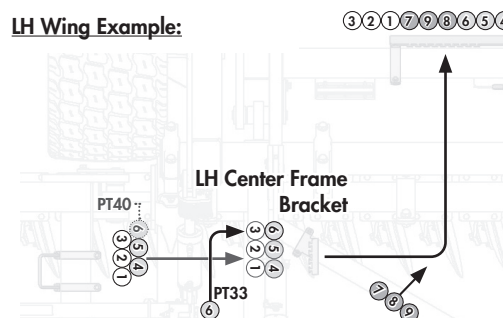
As the wing hoses are routed towards the center frame, groups of hoses **1-5** (1-6 PT40) on LH wing or **14-18** (13-18 PT40) on RH wing, pass through a Wing Slider Bracket to prevent hoses from getting damaged when folding the Pro-Till into or out of transport position.



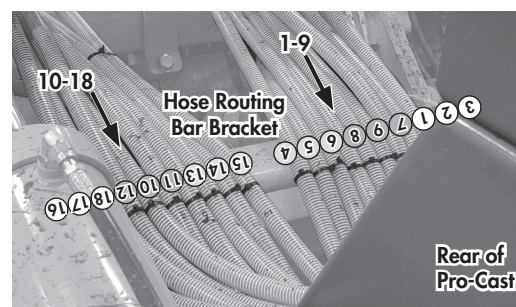
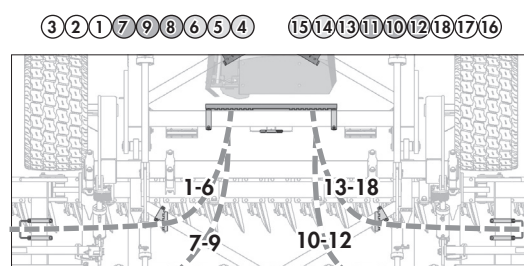
Reference only, actual Pro-Till model may differ.

After passing through the wing slider bracket, hose **6 -LH** or **13 -RH** (on the Pro-Till 33 models) join up with the group and are fastened to the LH or RH center frame brackets with zip ties in a specific order as shown.

LH Wing Example:

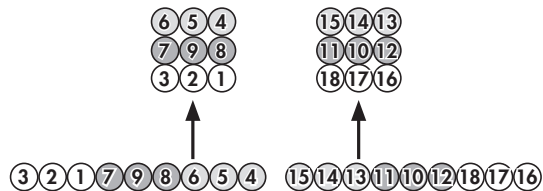
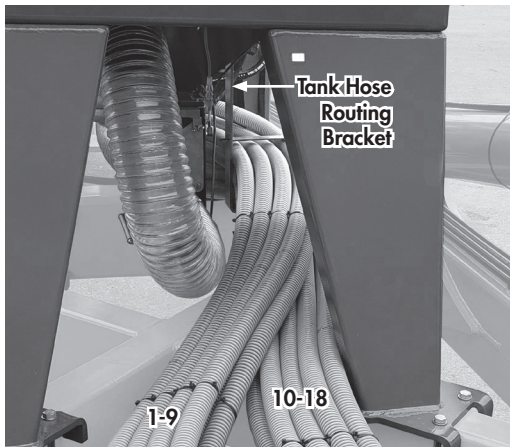


The hoses continue to the **Hose Routing Bar Bracket** and are attached with zip ties in a specific order as shown below.



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.

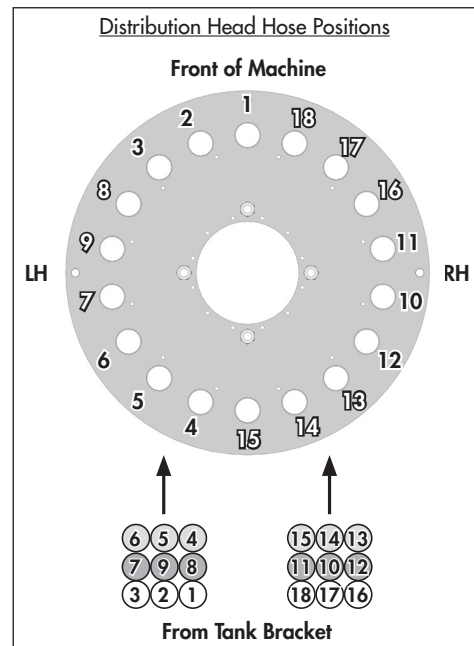


The hoses then continue through the front mounting legs up to the distribution head.

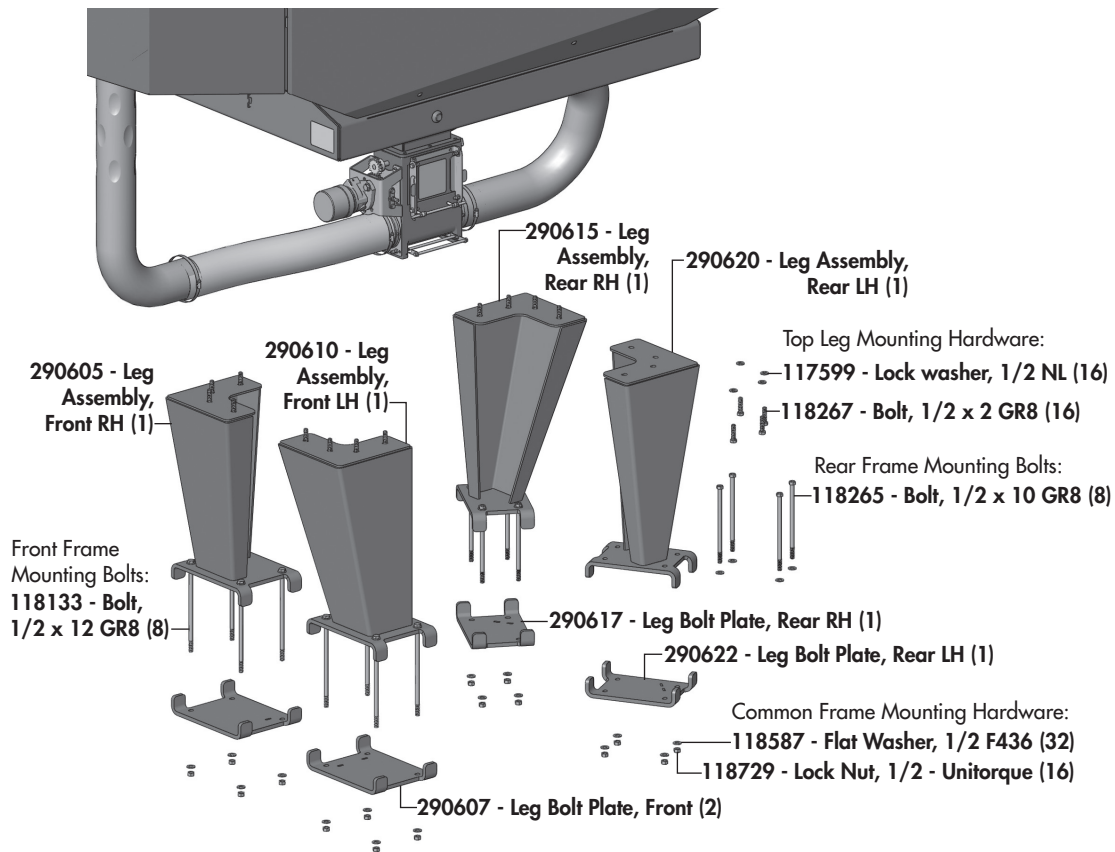
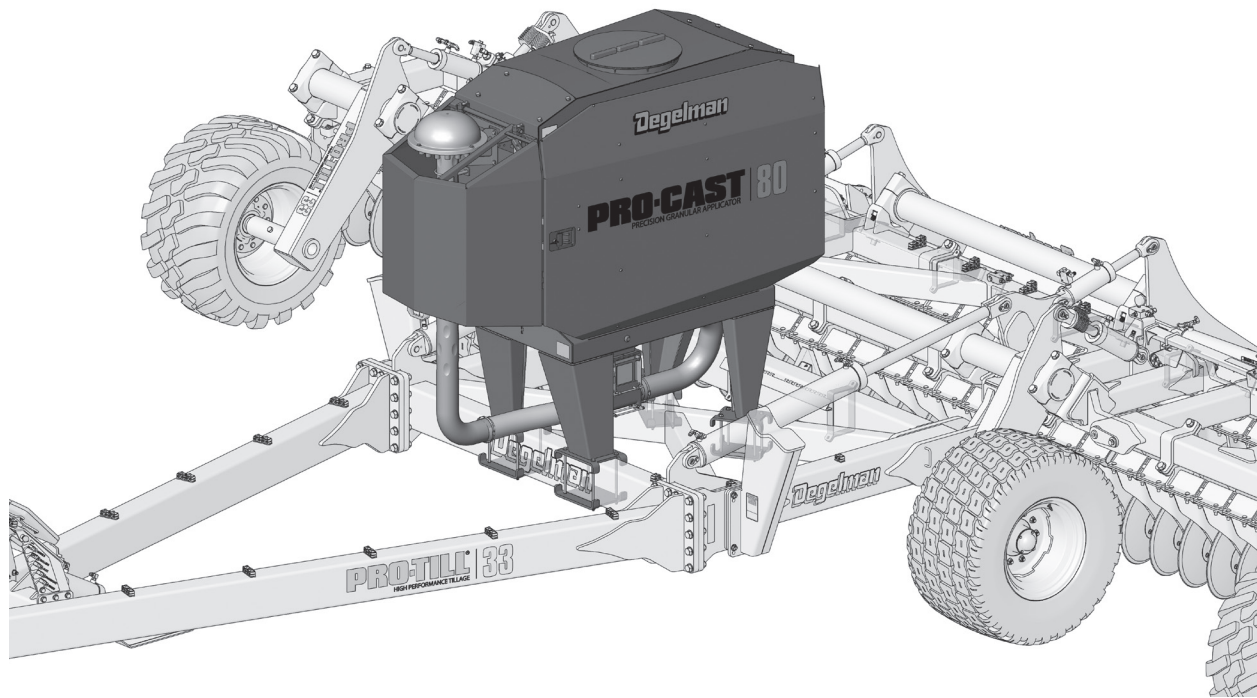
The distribution hoses have specific connection positions on the distribution manifold. Each hose (1-18) has a specific attachment location.

(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.

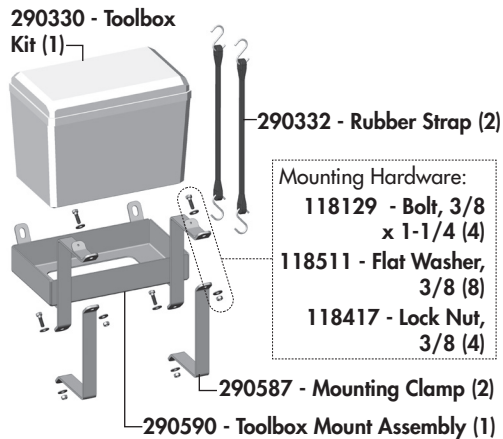


Pro-Cast Leg Component & Mounting Location

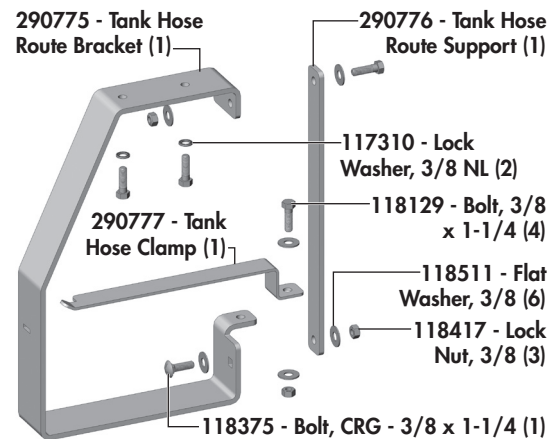


Common Bracket Components

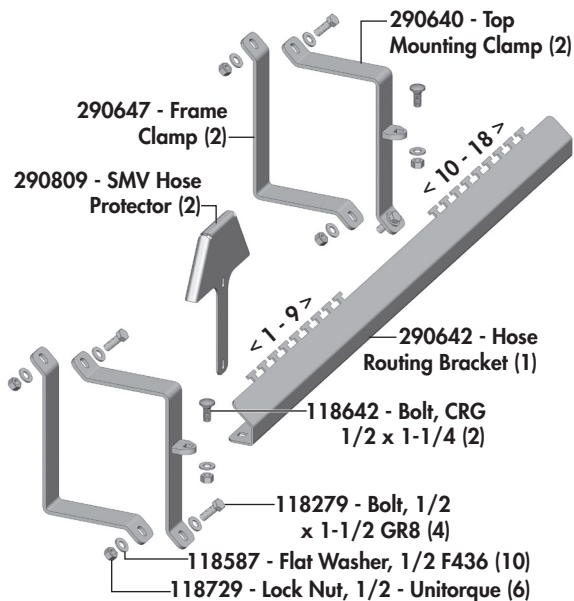
Toolbox Kit and Bracket Components



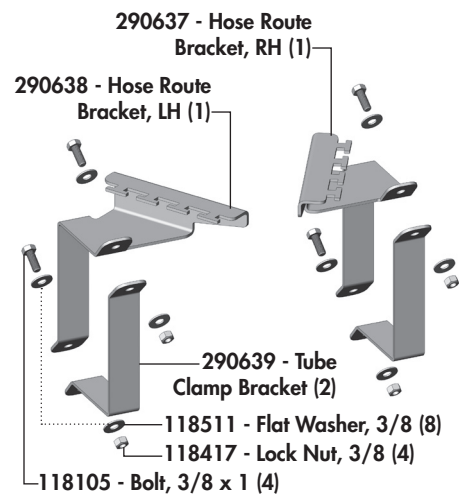
Tank Mounted Hose Routing Bracket



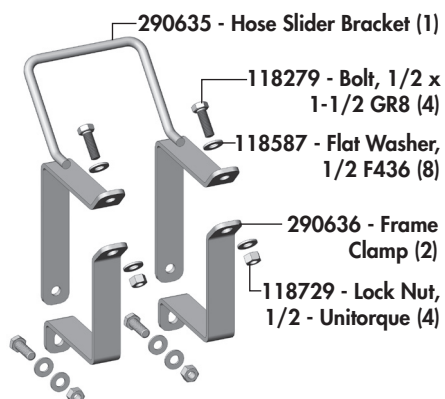
Distribution Hose Routing Bar Bracket



Center Frame Hose Brackets (LH & RH)



Wing Frame Slider Brackets (2)



Other Components



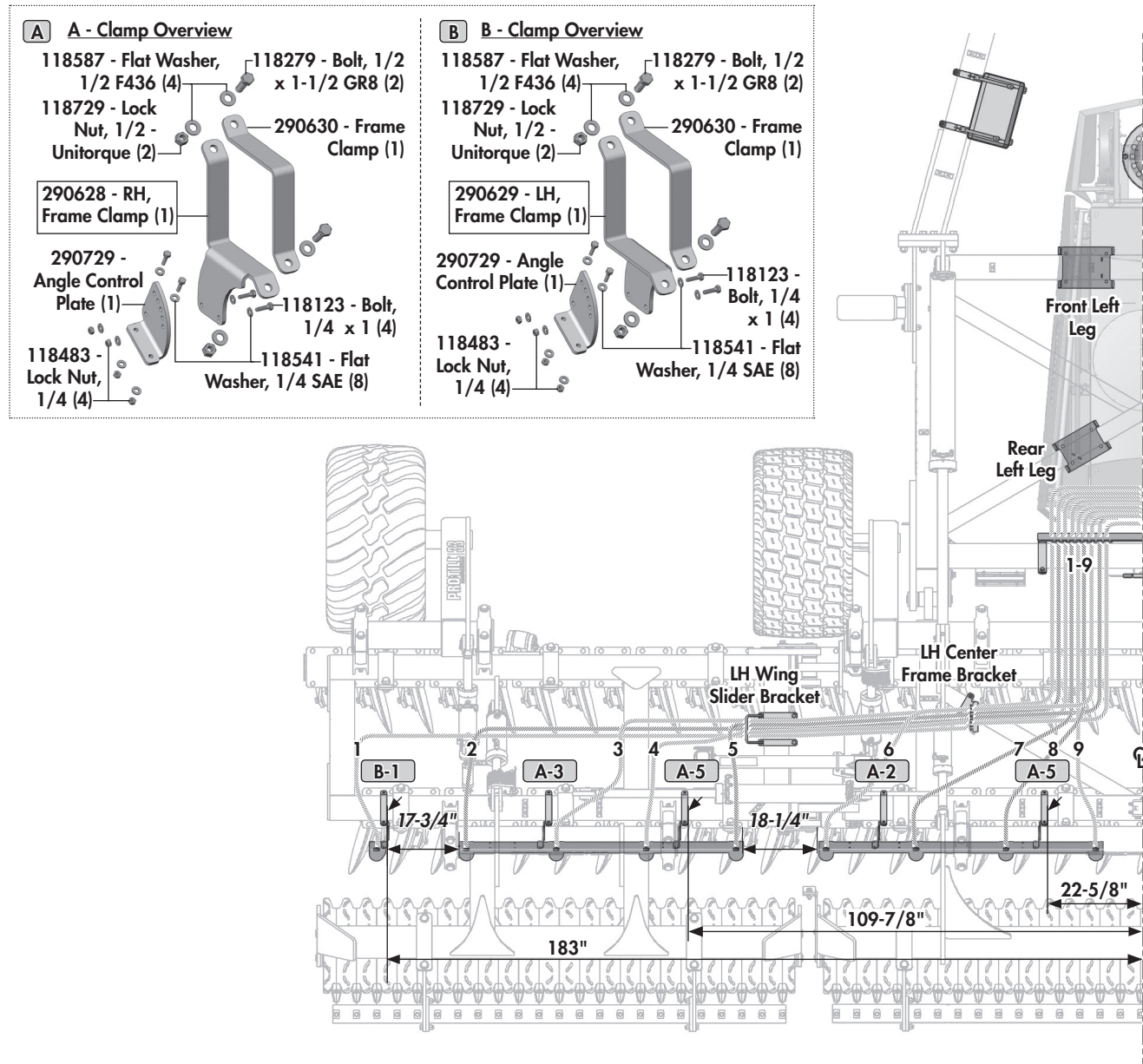
143452 - Rate Decal, Pro-Till 33 (1)

		Pro Fit 53					
		Available Seating: 50/50/50/50/50/50					
Reference Configuration		200 USD	250 USD	300 USD	400 USD	55 USD	60 USD
 (Reference Configuration)	200	250	300	400	55	60	12
	200	250	300	400	55	60	12
	200	250	300	400	55	60	12
	200	250	300	400	55	60	12
 (50/50/50/50/50)	200	250	300	400	55	60	12
	200	250	300	400	55	60	12
	200	250	300	400	55	60	12
	200	250	300	400	55	60	12
 (50/50/50/50/50)	200	250	300	400	55	60	12
	200	250	300	400	55	60	12
	200	250	300	400	55	60	12
	200	250	300	400	55	60	12
 (50/50/50/50/50)	200	250	300	400	55	60	12
	200	250	300	400	55	60	12
	200	250	300	400	55	60	12
	200	250	300	400	55	60	12

143454 - Rate Decal, Pro-Till 40 (1)

[illegible]

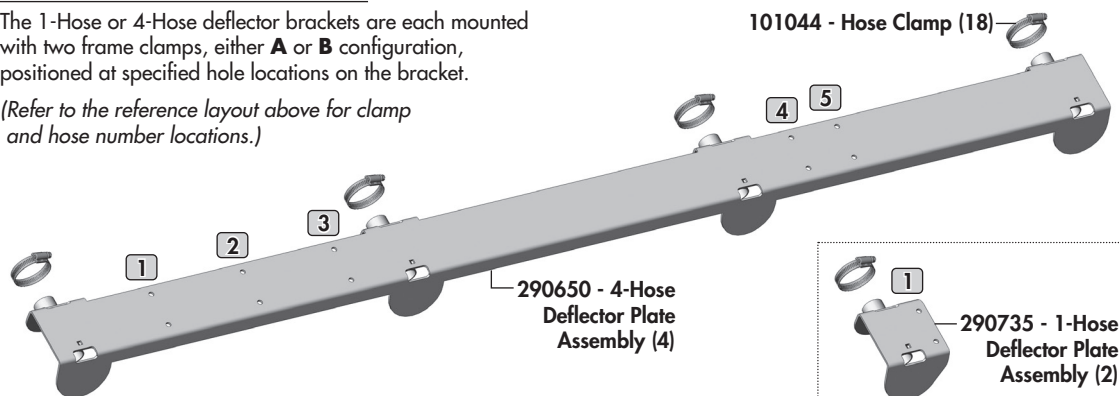
Pro-Till 33/Pro-Cast Location Overview (LH)



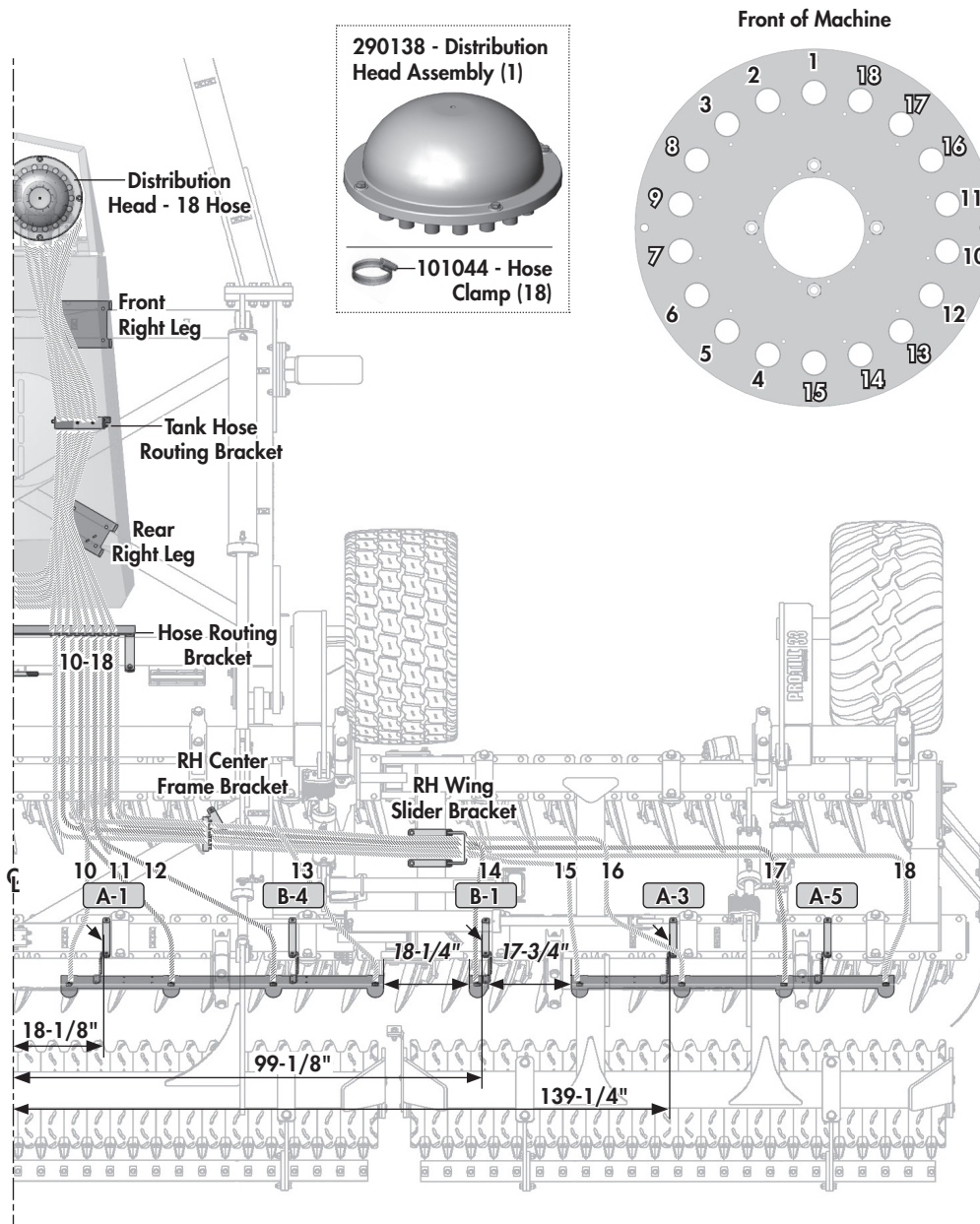
Distribution Brackets - Pro-Till 33

The 1-Hose or 4-Hose deflector brackets are each mounted with two frame clamps, either **A** or **B** configuration, positioned at specified hole locations on the bracket.

(Refer to the reference layout above for clamp and hose number locations.)



Pro-Till 33/Pro-Cast Location Overview (RH)

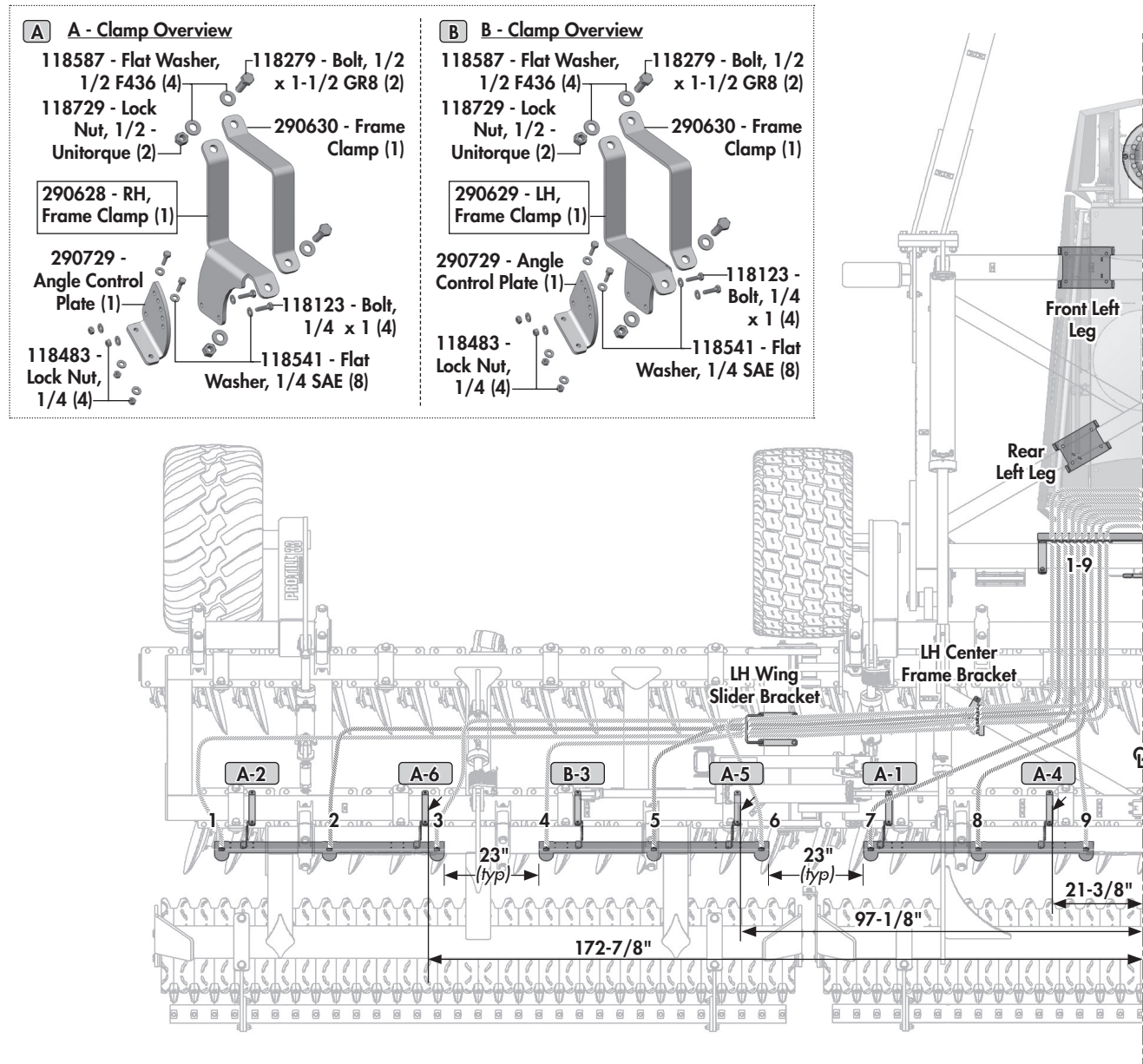


Approx. Hose Lengths PT33

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 - 42 ft	18 - 42 ft
4 - 35 ft	15 - 35 ft
9 - 23 ft	10 - 23 ft
(Roll-02)	(Roll-05)
3 - 39 ft	16 - 39 ft
6 - 32 ft	13 - 32 ft
7 - 29 ft	12 - 29 ft
(Roll-03)	(Roll-06)
2 - 41 ft	17 - 41 ft
5 - 33 ft	14 - 33 ft
8 - 26 ft	11 - 26 ft

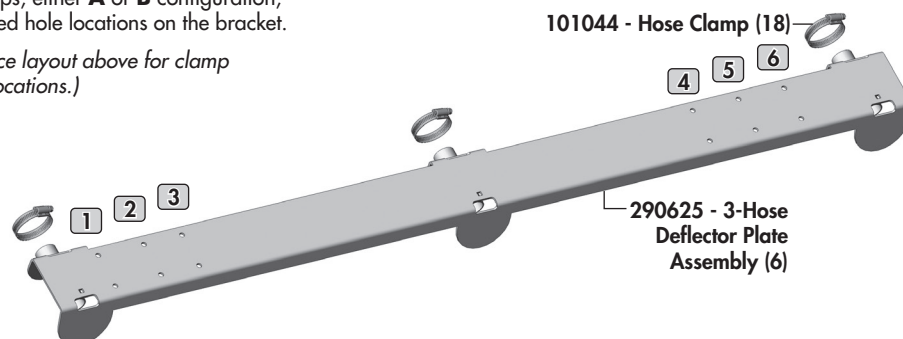
Pro-Till 40/Pro-Cast Location Overview (LH)



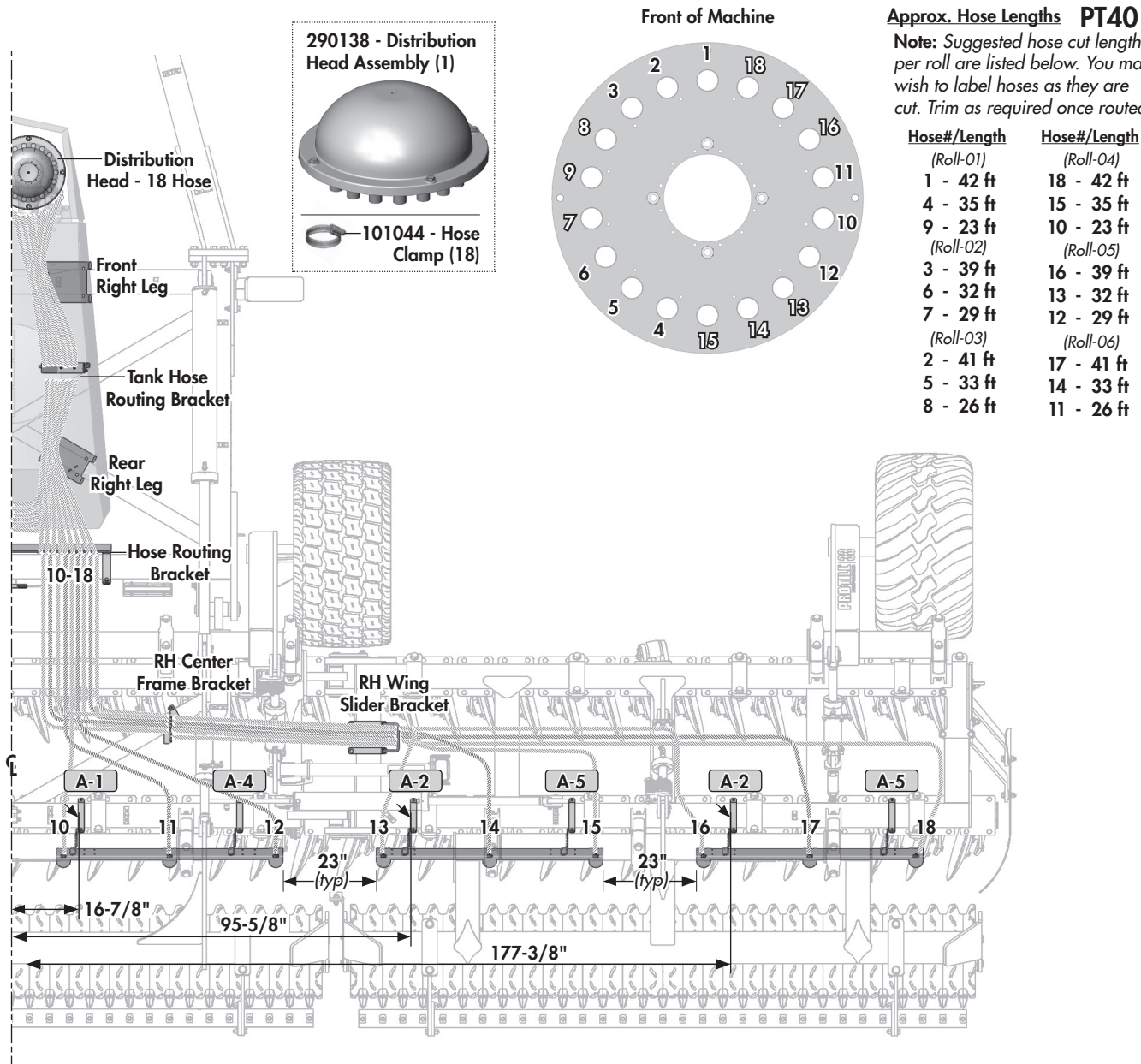
Distribution Brackets - Pro-Till 40

The 3-Hose deflector brackets are each mounted with two frame clamps, either **A** or **B** configuration, positioned at specified hole locations on the bracket.

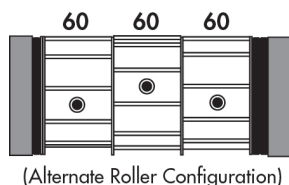
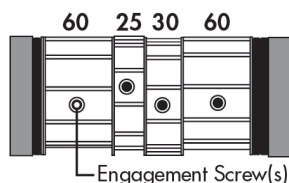
(Refer to the reference layout above for clamp and hose number locations.)



Pro-Till 40/Pro-Cast Location Overview (RH)



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 33	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 - 8	6 - 9	6 - 11	7 - 12	8 - 14	9 - 15	10 - 16
30	8 - 14	10 - 16	11 - 19	13 - 21	14 - 23	15 - 26	17 - 28
25 + 30	13 - 22	15 - 26	18 - 29	20 - 33	22 - 37	24 - 40	27 - 44
60	17 - 28	20 - 33	22 - 37	25 - 42	28 - 47	31 - 51	34 - 56
60 + 25	22 - 36	25 - 42	29 - 48	32 - 54	36 - 60	40 - 66	43 - 72
60 + 30	25 - 42	29 - 49	34 - 56	38 - 63	42 - 70	46 - 77	50 - 84
60 + 30 + 25	30 - 50	35 - 58	40 - 67	45 - 75	50 - 83	55 - 92	60 - 100
60 + 60	34 - 56	39 - 65	45 - 75	50 - 84	56 - 93	61 - 102	67 - 112
60 + 60 + 25	38 - 64	45 - 75	51 - 85	58 - 96	64 - 107	70 - 117	77 - 128
60 + 60 + 30	42 - 70	49 - 82	56 - 93	63 - 105	70 - 116	77 - 128	84 - 140
60 + 60 + 30 + 25	47 - 78	55 - 91	62 - 104	70 - 117	78 - 130	86 - 143	94 - 156
60 + 60 + 60	50 - 101	59 - 117	67 - 134	75 - 151	84 - 168	92 - 184	101 - 201

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

Pro-Till 40	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 - 8	5 - 9	6 - 10	7 - 11	7 - 12	8 - 13
30	7 - 12	8 - 13	9 - 15	10 - 17	12 - 19	13 - 21	14 - 23
25 + 30	11 - 18	13 - 21	15 - 24	16 - 27	18 - 30	20 - 33	22 - 36
60	14 - 23	16 - 27	18 - 31	21 - 35	23 - 38	25 - 42	28 - 46
60 + 25	18 - 30	21 - 35	24 - 40	27 - 45	30 - 50	33 - 55	36 - 60
60 + 30	21 - 35	24 - 40	28 - 46	31 - 52	35 - 58	38 - 63	42 - 69
60 + 30 + 25	25 - 41	29 - 48	33 - 55	37 - 62	41 - 69	45 - 76	50 - 83
60 + 60	28 - 46	32 - 54	37 - 61	42 - 69	46 - 77	51 - 85	55 - 92
60 + 60 + 25	32 - 53	37 - 62	42 - 70	48 - 79	53 - 88	58 - 97	63 - 106
60 + 60 + 30	35 - 58	40 - 67	46 - 77	52 - 86	58 - 96	63 - 106	69 - 115
60 + 60 + 30 + 25	39 - 64	45 - 75	51 - 86	58 - 97	64 - 107	71 - 118	77 - 129
60 + 60 + 60	42 - 83	48 - 97	55 - 111	62 - 125	69 - 138	76 - 152	83 - 166

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