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NTS-60 / NTS-72 / NTS-84

No Till Multi Crop Drill

Parts Manual



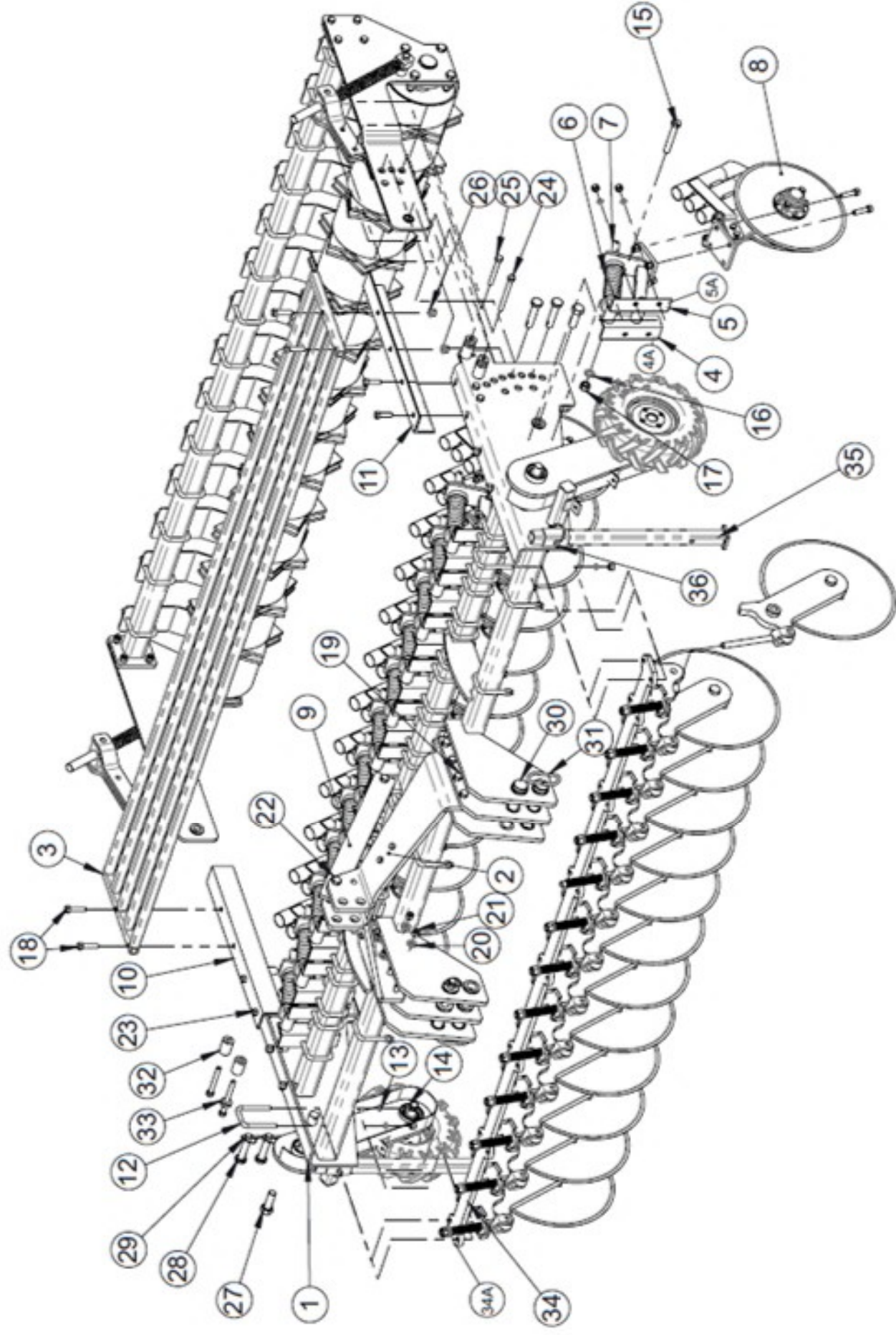
Seed Drill Specifications



Description	Model FKNTMCPHS-9	Model FKNTMCPHS-11	Model FKNTMCPHS-13
Main Frame	2.3" x 2.3" x 0.2" (T)	2.3" x 2.3" x 0.2" (T)	2.3" x 2.3" x 0.2" (T)
3-Point Linkage	Cat. I & Cat. II	Cat. I & Cat. II	Cat. I & Cat. II
Quick Hitch Compatible	Yes	Yes	Yes
No. of Fluted Roller	27	33	39
No. of Seed Distribution Pipes	27	33	39
No. of Row	9	11	13
Seed Disc Opener Spacing	7"	7"	7"
Actual Distance between Seeds	Continuous Type	Continuous Type	Continuous Type
Working Width	57"	69"	87"
Overall Dimensions	63" x 68" x 44"	63" x 84" x 44"	63" x 99" x 44"
Seed Box (Capacity Lbs.)	220	287	353
Seed Box Volume (1)	10984 in ³ (5.1 bushel)	13425 in ³ (6.24 bushel)	15866 in ³ (7.37 bushel)
Seed Box Volume (2)	-	-	-
Seed Box Volume (3)	3051 in ³ (1.41 bushel)	3661 in ³ (1.7 bushel)	4271.5 in ³ (1.98 bushel)
Drive Wheel Size	15"-16.5"	15"-16.5"	15"-16.5"
Wheel Type	Chain	Chain	Chain
Weight (Approx. Lbs.)	1763	1896	2028
Tractor HP	30-45	50-65	70-85

Main Frame Assembly

(Without Hopper)



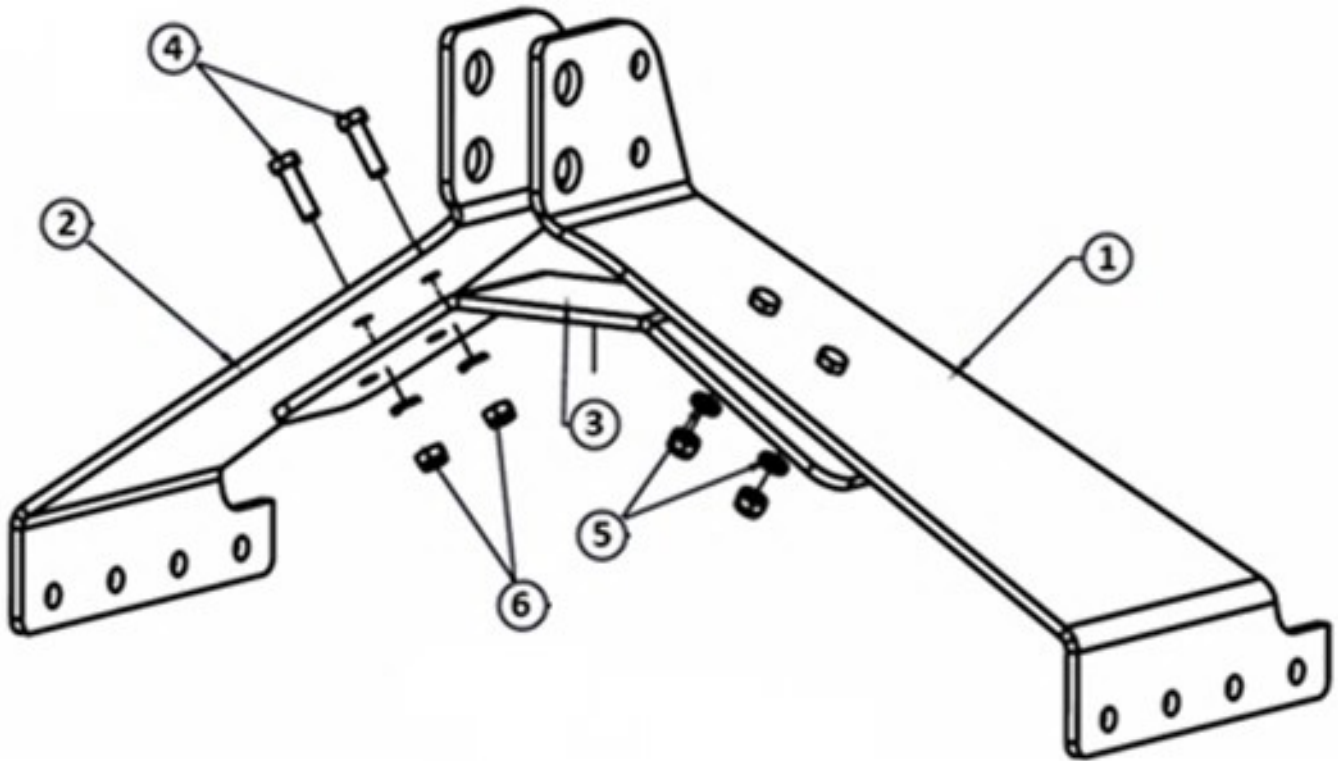
Main Frame Assembly

(Without Hopper)

Item	Part No.	Description	Qty		
			NTS-60	NTS-72	NTS-84
1	FK78550153	MAIN FRAME ASSEMBLY (9-TYNE)	1	-	-
	FK78550102	MAIN FRAME ASSEMBLY (11-TYNE)	-	1	-
	FK78550152	MAIN FRAME ASSEMBLY (13-TYNE)	-	-	1
2	FK78550053	THREE POINT LINKAGE	1	1	1
3	FK78550027	OPERATOR STAND ASSEMBLY (9-TYNE)	1	1	1
	FK78550028	OPERATOR STAND ASSEMBLY (11-TYNE)	1	1	1
	FK78550029	OPERATOR STAND ASSEMBLY (13-TYNE)	1	1	1
4	FK78390142	TYNE HOLDING ANGLE – LH	9	11	13
5	FK78390143	TYNE HOLDING ANGLE – RH	9	11	13
6	FK10210200	SPRING 9.5 WD, 50mm O.D., 12 Coils, 172mm-Length	9	11	13
7	FK10160118	SPRING ROD ASSEMBLY	9	11	13
8	FK78550094	TYNE ASSEMBLY COMPLETE	9	11	13
9	FK78550124	THREE POINT LINKAGE FLAT ASSEMBLY	1	1	1
10	FK78550141	OPERATOR STAND SUPPORT ANGLE – LH	1	1	1
11	FK78550142	OPERATOR STAND SUPPORT ANGLE – RH	1	1	1
12	FK10220028	U-BOLT CLAMP 100 X 62 X 12mm	26	30	34
13	FK10270003	LOCKWASHER M12	48	58	68
14	FK10280025	NYLOCK NUT M12	52	62	72
15	FK10260366	HH BOLT M16 X 110 X 2 (8.8)	18	22	26
16	FK10270020	FLATWASHER M16	24	28	32
17	FK10280005	NYLOCK NUT M16 X 2	24	28	32
18	FK10260363	HH BOLT M12 X 50 X 1.75 (8.8)	44	48	52
19	FK10260386	HH BOLT M14 X 50 X 2	9	9	9
20	FK10270030	FLATWASHER M16	9	9	9
21	FK10280090	NYLOCK NUT M14 X 2	9	9	9
22	FK10260377	HH BOLT M16 X 120 X 2 (8.8) Half Thread	6	6	6
23	FK10260355	HH BOLT M12 X 1.75 X 40 (8.8) 30mm Thread	4	4	4
24	FK10260336	HH BOLT M12 X 1.75 X 125 (8.8) Half Thread	2	2	2
25	FK10260448	HH BOLT M12 X 1.75 X 100 (8.8)	2	2	2
26	FK10270010	FLATWASHER M12	12	12	12
27	FK10020343	THREADED PIN FOR PACKER ROLLER MOUNT	2	2	2
28	FK10020026	PIN 19 X 90mm	4	4	4
29	FK10020022	LYNCH PIN 10mm	6	6	6
30	FK78370005	PIN 42 X 28 X 22 X 200mm (L)	2	2	2
31	FK10020047	TILLER PIN 28 X 145mm WITH HANDLE	2	2	2
32	FK10070348	BUSHING 32 X 13 X 10 LONG	6	6	6
33	FK10070349	BUSHING 32 X 13 X 10 LONG	4	4	4
34	FK78720016	COULTER HOLDING ASSEMBLY (9-TYNE)	1	-	-
	FK78720010	COULTER HOLDING ASSEMBLY (11-TYNE)	-	1	-
	FK78720011	COULTER HOLDING ASSEMBLY (13-TYNE)	-	-	1
35	FK78550157	STAND ASSEMBLY	2	2	2
36	FK10020465	WIRE LOCK PI 12 X 80 (D-Type)	2	2	2

3-Point Linkage

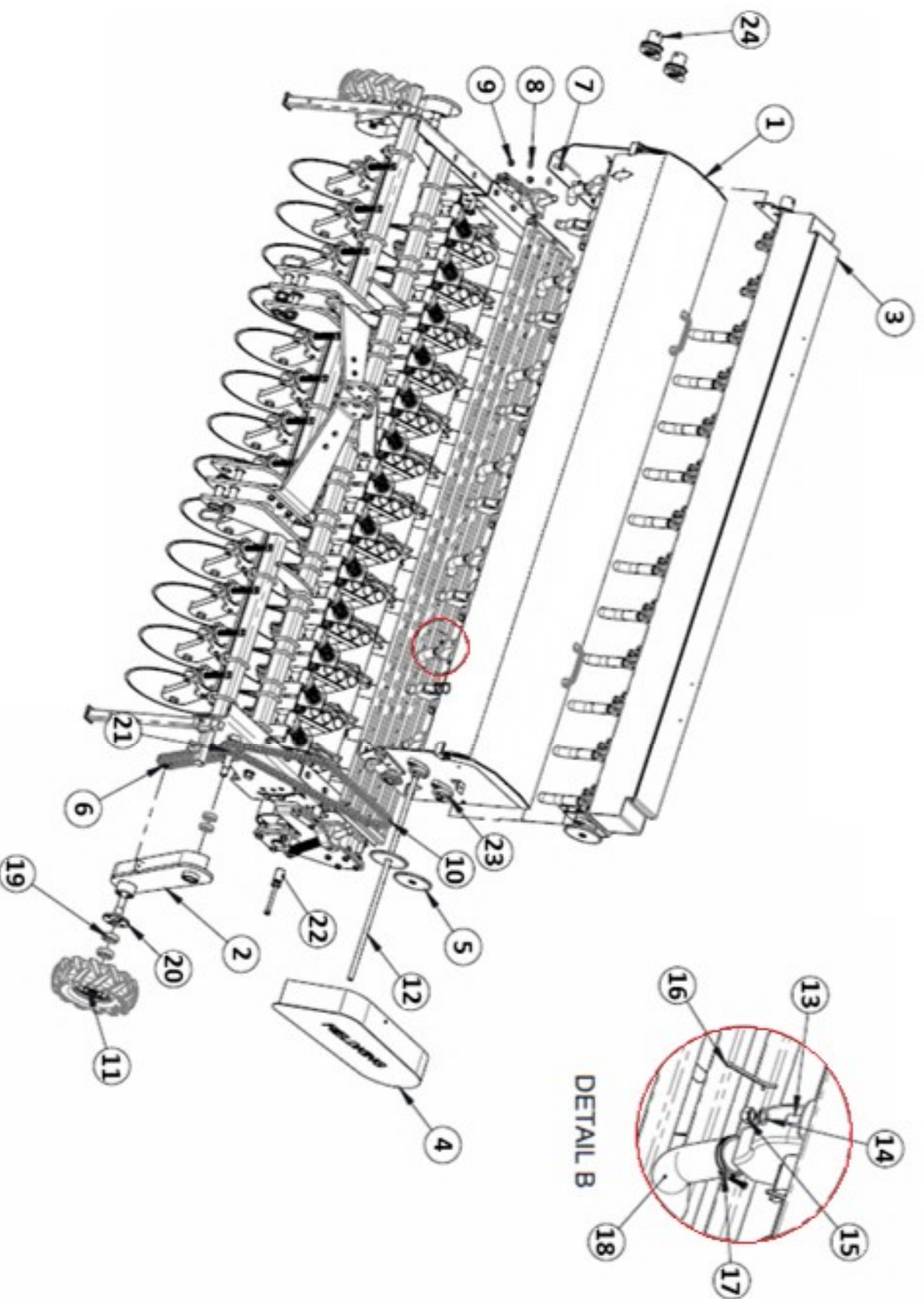
(A-Frame)



Item	Part No.	Description	Qty		
			NTS-60	NTS-72	NTS-84
1	FK78550120	LEVER PLATE – RH	1	1	1
2	FK78550121	LEVER PLATE – LH	1	1	1
3	FK78550122	MID-SUPPORT PLATE	1	1	1
4	FK10260353	HH BOLT M10 X 1.5 X 35	4	4	4
5	FK10270002	LOCKWASHER M10	4	4	4
6	FK10280002	NYLOCK NUT M10 X 1.5	4	4	4
FK78550053		COMPLETE A-FRAME	1	1	1

(WITH HOPPER)

Main Frame Assembly

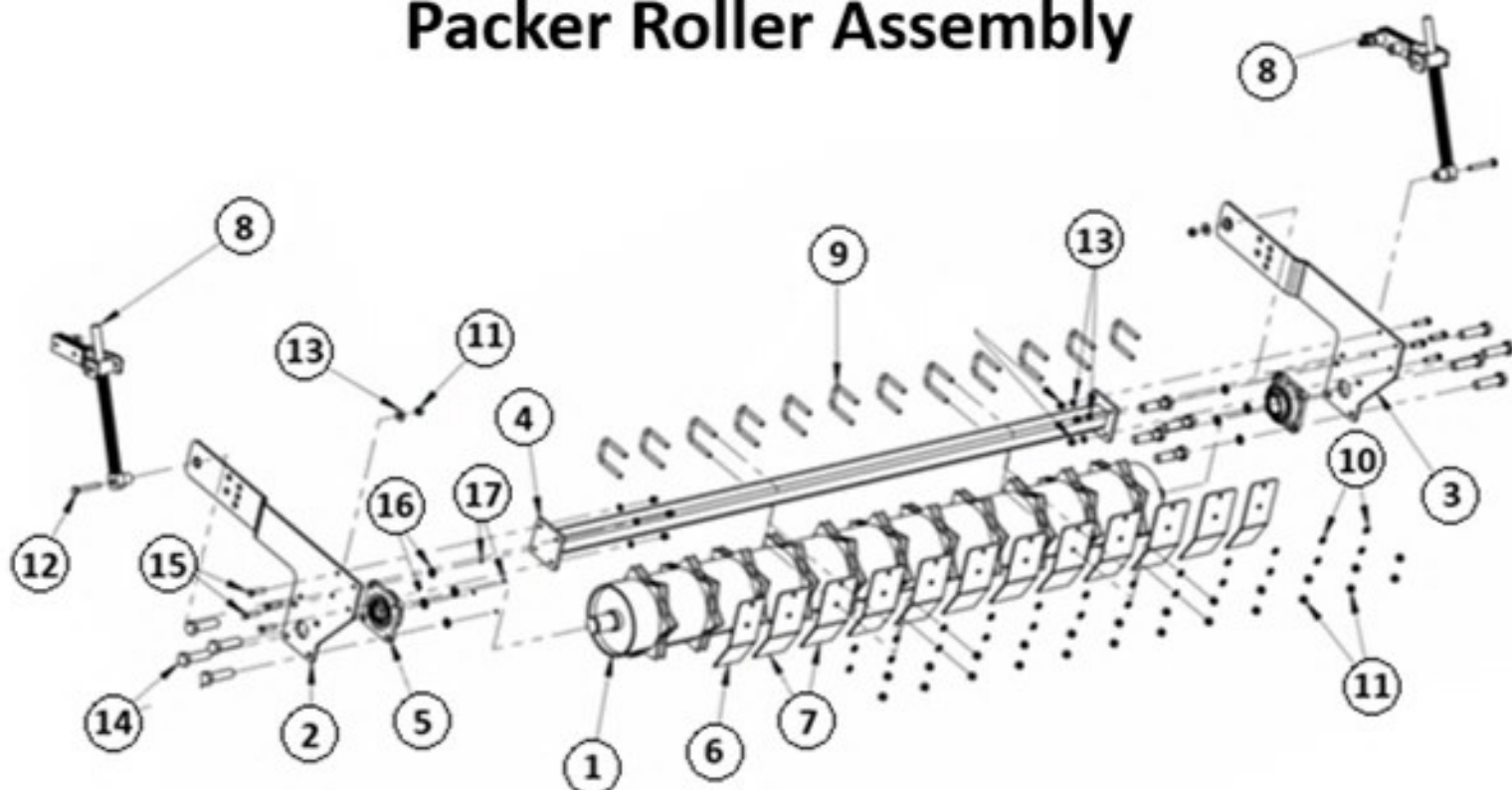


Main Frame Assembly

(With Hopper)

Item	Part No.	Description	Qty		
			NTS-60	NTS-72	NTS-84
1	FK78390192	HOPPER ASSEMBLY (9-TYNE)	1	-	-
	FK78390190	HOPPER ASSEMBLY (11-TYNE)	-	1	-
	FK78390194	HOPPER ASSEMBLY (13-TYNE)	-	-	1
	FK78390154	SS HOPPER ASSEMBLY (11-TYNE) Special	-	1	-
2	FK78550130	WHEEL ARM	2	2	2
3	FK78390193	SMALL SEED HOPPER ASSEMBLY (9-TYNE)	1	-	-
	FK783901915	SMALL SEED HOPPER ASSEMBLY (11-TYNE)	-	1	-
	FK78390195	SMALL SEED HOPPER ASSEMBLY (13-TYNE)	-	-	1
	FK78390155	SS SMALL SEED HOPPER ASSEMBLY (11-TYNE) Special	-	1	-
4	FK78390137	CHAIN COVER ASSEMBLY	1	1	1
5	FK10170075	SPROCKET 28-T SUB ASSEMBLY	3	3	3
6	FK10170071	SPROCKET 11-T X 6 SPLINE (Drive Shaft)	1	1	1
7	FK10260386	HH BOLT 14 X 2 X 50	4	4	4
8	FK10280090	NYLOCK NUT M14 X 2	4	4	4
9	FK10270030	FLATWASHER M14	4	4	4
10	FK10140053	CHAIN 10B (40 Links)	2	2	2
11	FK11030049	WHEEL , TIRE 4.00-8 & TUBE	2	2	2
12	FK10160121	SEED PISTOL MOUNTING ROD (9-TYNE)	3	-	-
	FK10160120	SEED PISTOL MOUNTING ROD (11-TYNE)	-	3	-
	FK10160122	SEED PISTOL MOUNTING ROD (13-TYNE)	-	-	3
13	FK10260373	HH BOLT M8 X 1.25 X 40	54	66	78
14	FK10270008	FLATWASHER M8	54	66	78
15	FK10280027	NYLOCK NUT M8 X 1.25	54	66	78
16	FK10020097	SPLIT PIN 1/8" X 2-1/2"	27	33	39
17	FK10301146	HOSE PIPE CLAMP 1"	27	33	39
18	FK10200056	PVC FLEXIBLE WATER SUCTION HOSE 36 O.D. X 31 I.D.	27	33	39
19	FK10050091	BEARING 6305 2Z	4	4	4
20	FK10290259	TIRE AXLE SHAFT ASSEMBLY	2	2	2
21	FK10170107	SPROCKET ASSEMBLY OF 16-T FOR DRIVE WHEEL	1	1	1
22	FK10070323	SPACER 25 X 13.5mm	1	1	1
23	FK10050352	UCFL BEARING 205	3	3	3
24	FK10301891	SEED METERING MECHANISM ASSEMBLY	3	3	3

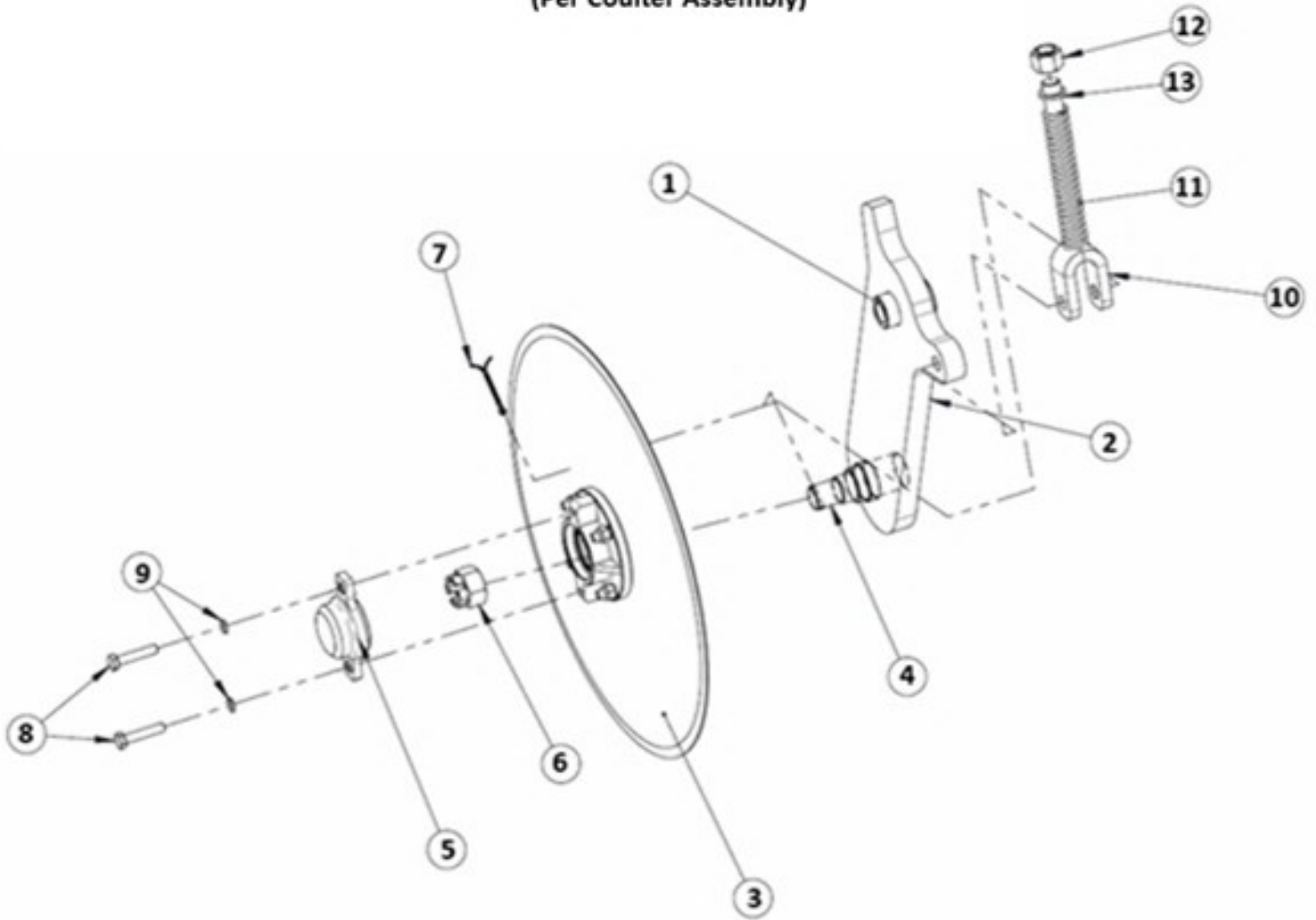
Packer Roller Assembly



Item	Part No.	Description	Qty		
			NTS-60	NTS-72	NTS-84
1	FK78550149	PACKER ROLLER ASSEMBLY (9-TYNE)	1	-	-
	FK78550150	PACKER ROLLER ASSEMBLY (11-TYNE)	-	1	-
	FK78550151	PACKER ROLLER ASSEMBLY (13-TYNE)	-	-	1
2	FK78550133	PACKER ROLLER SIDE MOUNTING PLATE – RH	1	1	1
3	FK78550134	PACKER ROLLER SIDE MOUNTING PLATE – LH	1	1	1
4	FK78550034	PACKER ROLLER SUPPORT PIPE ASSEMBLY (9-TYNE)	1	-	-
	FK78550035	PACKER ROLLER SUPPORT PIPE ASSEMBLY (11-TYNE)	-	1	-
	FK78550036	PACKER ROLLER SUPPORT PIPE ASSEMBLY (13-TYNE)	-	-	1
5	FK10050031	UC BEARING F210	1	1	1
6	FK78550147	PACKER ROLLER SCRAPER PLATE (100mm)	1	1	1
7	FK78550148	PACKER ROLLER SCRAPER PLATE (120mm)	8	10	12
8	FK73180001	SHOCK ASSEMBLY	2	2	2
9	FK10220028	U-BOLT CLAMP	10	12	14
10	FK10270003	LOCKWASHER M12	20	24	28
11	FK10280025	NYLOCK NUT M12 X 1.75	30	34	38
12	FK10260448	HH BOLT M16 X 1.75 X 100 (8.8)	2	2	2
13	FK10270010	FLATWASHER M12	10	10	10
14	FK10260454	HH BOLT M16 X 2 X 55 (8.8)	8	8	8
15	FK10260427	HH BOLT M12 X 1.75 X 45 (8.8)	8	8	8
16	FK10270020	FLATWASHER M16	8	8	8
17	FK10280005	NYLOCK NUT M16 X 2	8	8	8
	FK78390185	COMPLETE SCRAPER KIT	1	-	-
	FK78390186	COMPLETE SCRAPER KIT	-	1	-
	FK78390187	COMPLETE SCRAPER KIT	-	-	1

Coulter Wheel Assembly

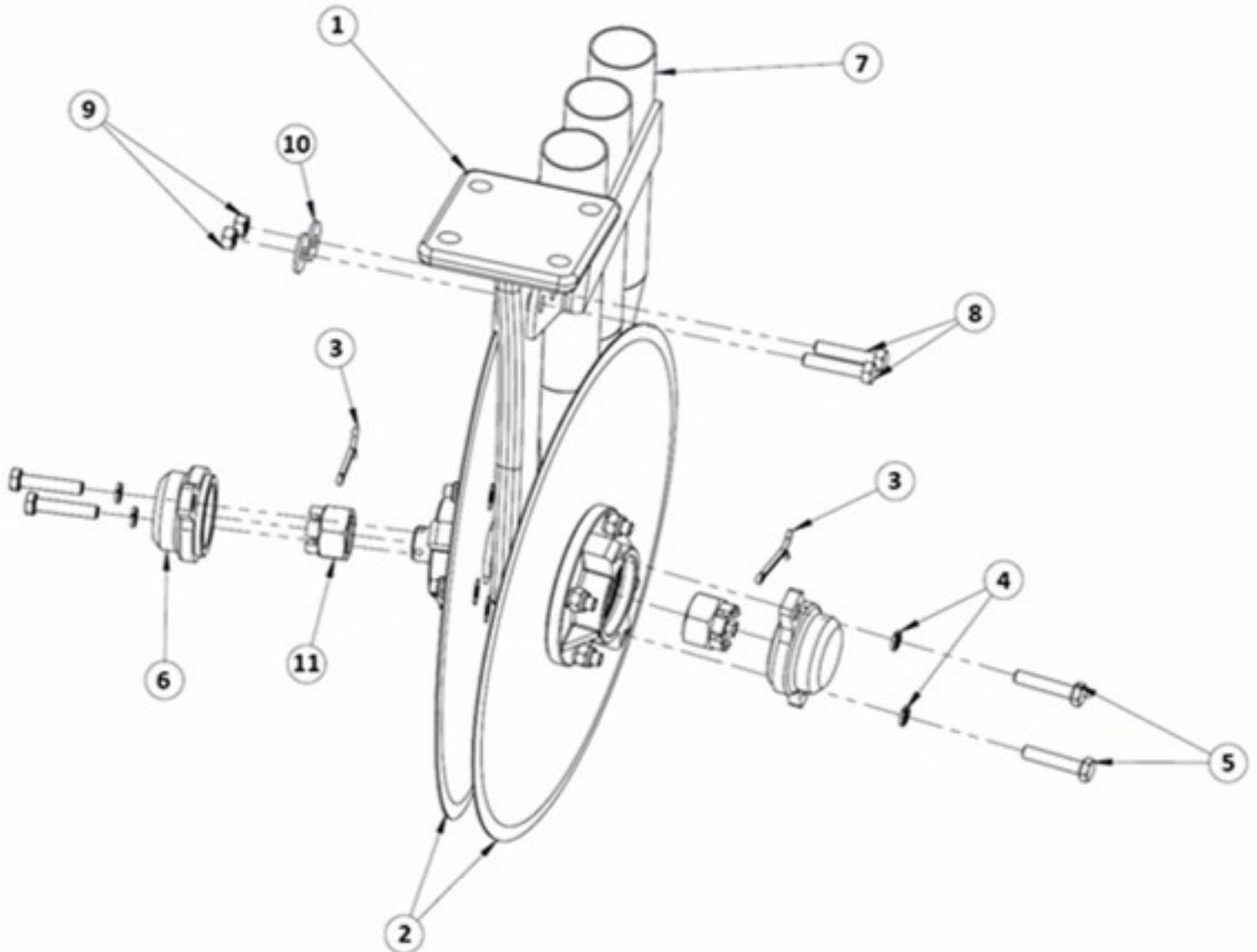
(Per Coulter Assembly)



Item	Part No.	Description	Qty		
			NTS-60	NTS-72	NTS-84
1	FK78720009	TYNE BUSHING	1	1	1
2	FK78720006	COULTER HOLDING TYNE	1	1	1
3	FK78550075	DISC SUB ASSEMBLY	1	1	1
4	FK78720007	PIN FOR DISC ASSEMBLY W/CASTLE NUT	1	1	1
5	FK1240002	REAR DISC HUB CAP	1	1	1
6	FK10280123	CASTLE NUT M22 X 1.5	1	1	1
7	FK10020097	SPLIT PIN 1/8" X 2-1/2"	1	1	1
8	FK10260360	HH BOLT M8 X 1.25 X 25 (8.8) - 17mm Thread Length	2	2	2
9	FK10270001	LOCKWASHER M8	2	2	2
10	FK78720003	U-BOLT ASSEMBLY	1	1	1
11	FK10210203	COULTER SPRING	1	1	1
12	FK10280005	NYLOCK NUT M16 X 2	1	1	1
13	FK10270005	LOCKWASHER M16	1	1	1

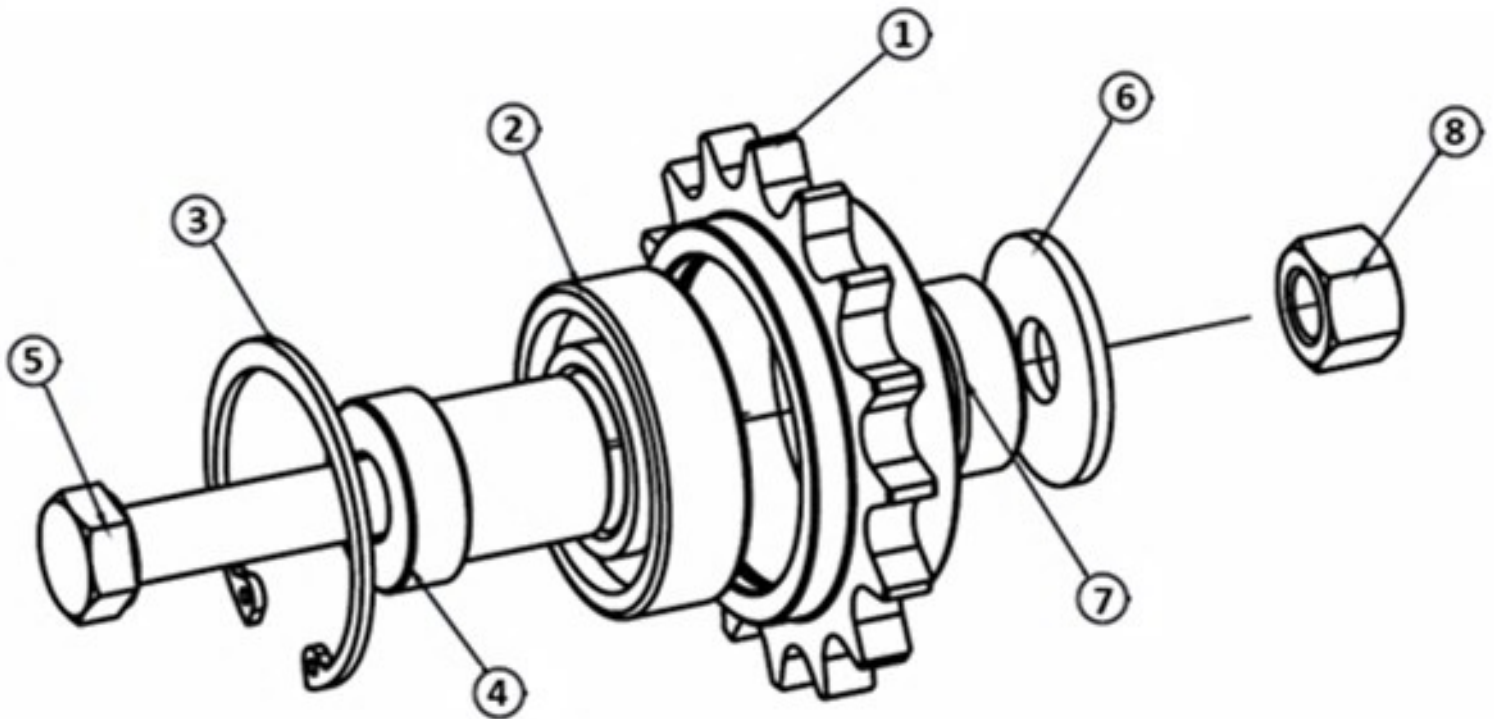
Front Tyne Assembly

(Breakdown per Tyne)



Item	Part No.	Description	Qty		
			NTS-60	NTS-72	NTS-84
1	FK10330054	TYNE FOR DISC ASSEMBLY	1	1	1
2	FK78550075	DISC SUB ASSEMBLY	2	2	2
3	FK10020097	SPIT PIN 1/8" X 2-1/2"	2	2	2
4	FK10270001	LOCKWASHER M8	4	4	4
5	FK10260360	HH BOLT M8 X 1.25 X 25 (8.8)	4	4	4
6	FK1240002	REAR DISC HUB CAP	2	2	2
7	FK78550132	PIPE ASSEMBLY FOR CASTING TYNE	1	1	1
8	FK10260005	HH BOLT M10 X 1.5 X 45 (8.8)	2	2	2
9	FK10280002	NYLOCK NUT M10 X 4.5	2	2	2
10	FK10270002	LOCKWASHER M10	2	2	2
11	FK10280123	CASTLE NUT M22 X 1.5	2	2	2
FK78550094			9	11	13
			COMPLETE TYNE ASSEMBLY		

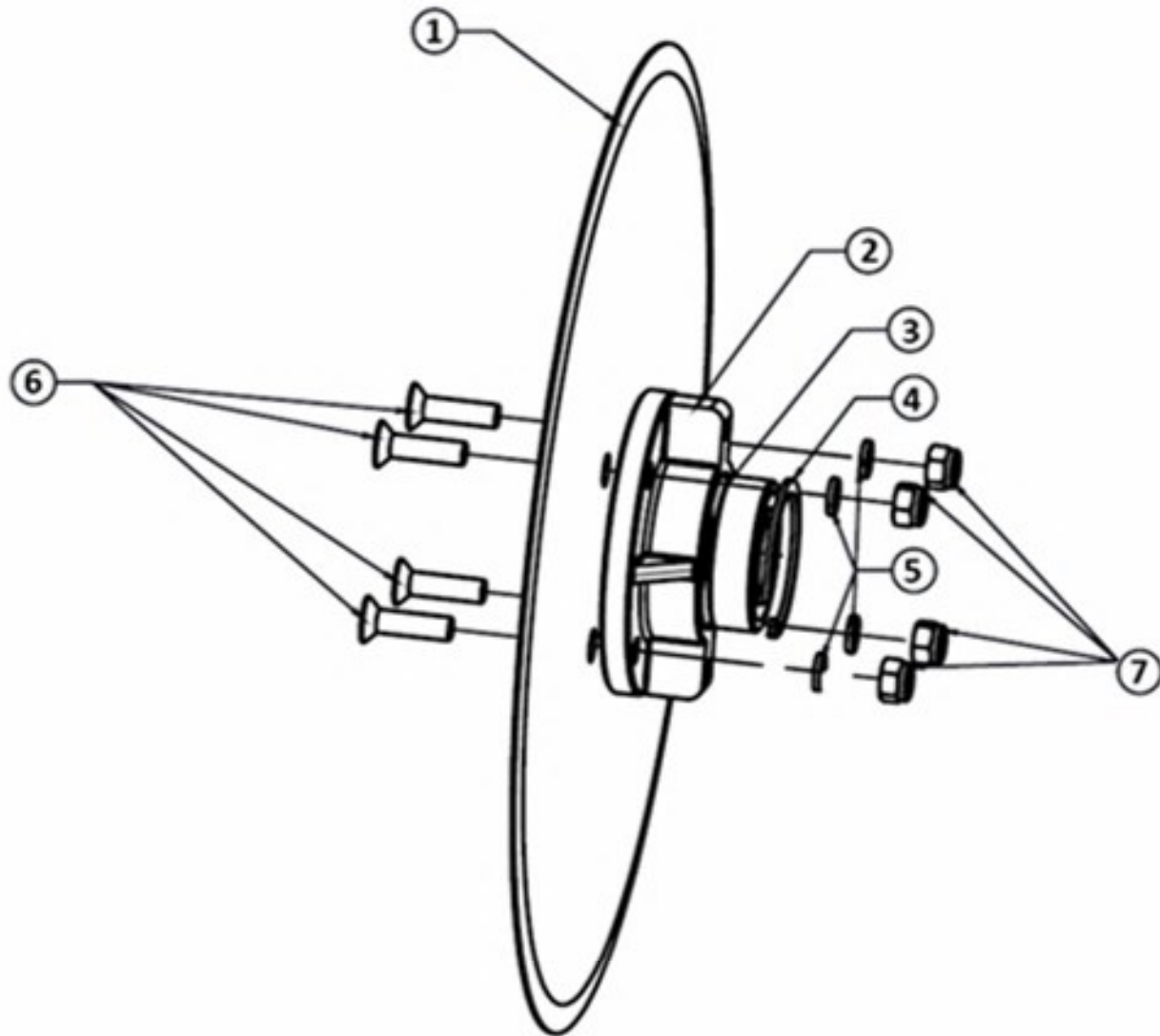
Chain Tightener Assembly



Item	Part No.	Description	Qty		
			NTS-60	NTS-72	NTS-84
1	FK10170072	SPROCKET 16-T FOR CHAIN ADJUSTER	1	1	1
2	FK10050155	BEARING 6205-ZZ	1	1	1
3	FK10390041	INTERNAL CIRCLIP 52mm	1	1	1
4	FK10070166	BUSHING FOR CHAIN ADJUSTER	1	1	1
5	FK10260364	HH BOLT M12 X 1.75 X 90 (8.8) – Half Thread	1	1	1
6	FK10270010	FLATWASHER M12	2	2	2
7	FK10070165	BUSHING FOR CHAIN ADJUSTER	1	1	1
8	FK10280028	HEX NUT M12 X 1.75	1	1	1
FK10170073			1	1	1
CHAIN TIGHTENER ASSY WITH SPROCKET					

Disc Sub-Assembly

(Breakdown per Disc)



Item	Part No.	Description	Qty		
			NTS-60	NTS-72	NTS-84
1	FK10240117	FLAT DISC 14" X 3mm	1	1	1
2	FK1240001	DISC HUB	1	1	1
3	FK10050155	BEARING 6205ZZ	1	1	1
4	FK10390083	INTERNAL CIRCLIP 52mm	1	1	1
5	FK10261036	CSK BOLT M8 X 1.25 X 30	4	4	4
6	FK10270001	LOCKWASHER M8	4	4	4
7	FK10280027	NYLOCK NUT M8 X 1.25	4	4	4
FK78550075		DISC SUB ASSEMBLY	1	1	1

CALIBRATION CHART

SPREADING CHART FOR SEEDS CALIBRATION (LBS. / ACRE, LBS. / HECTARE)

SEEDS RATE	1	2	3	4	5	6	7	8	9	10
SEEDS QTY. Lbs. / Acre	17	33	59	75	90	105	123	139	154	169
SEEDS QTY. Lbs. / Hectare	42	81	146	185	222	260	304	343	380	417
QTY. KG/ACRE (WHEEL)										
ACRE SIZE= 220 (L) X 198 (W) FEET										
MACHINE SPREADING WIDTH (mm) / 1496 (9R) /1802 (11R) /2222 (13R)										
WHEEL SIZE 16.1" = 1 ROUND 4.2 FEET AREA COVER										
NOTE-TRACTOR SPEED KM/H N/A										

SEED RATE CHART FOR SMALL GRASS SEEDS

MODEL	SEED RATE	1	2	3	4	5	6	7	8	9	10
9 TYNE	SEED QTY LBS./ACRE	11	19	27	35	54	73	99	126	139	152
	SEED QTY LBS./HECTARE	28	47	67	87	134	182	249	316	348	379
11 TYNE	SEED QTY LBS./ACRE	14	23	33	42	66	89	122	154	170	185
	SEED QTY LBS./HECTARE	34	58	82	106	164	222	304	386	424	463
13 TYNE	SEED QTY LBS./ACRE	16	27	39	50	77	105	144	183	201	219
	SEED QTY LBS./HECTARE	40	68	97	125	194	262	359	456	502	547