



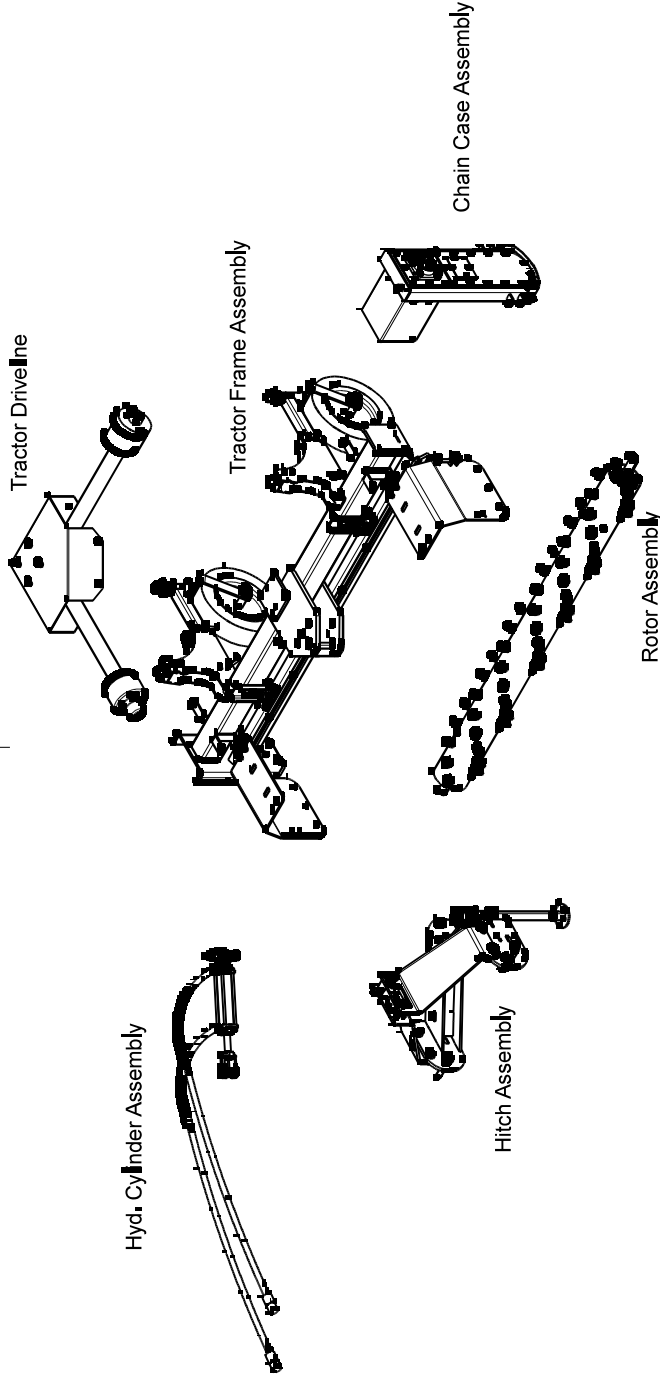
Raptor

SOIL PROCESSOR

Tractor Version Parts



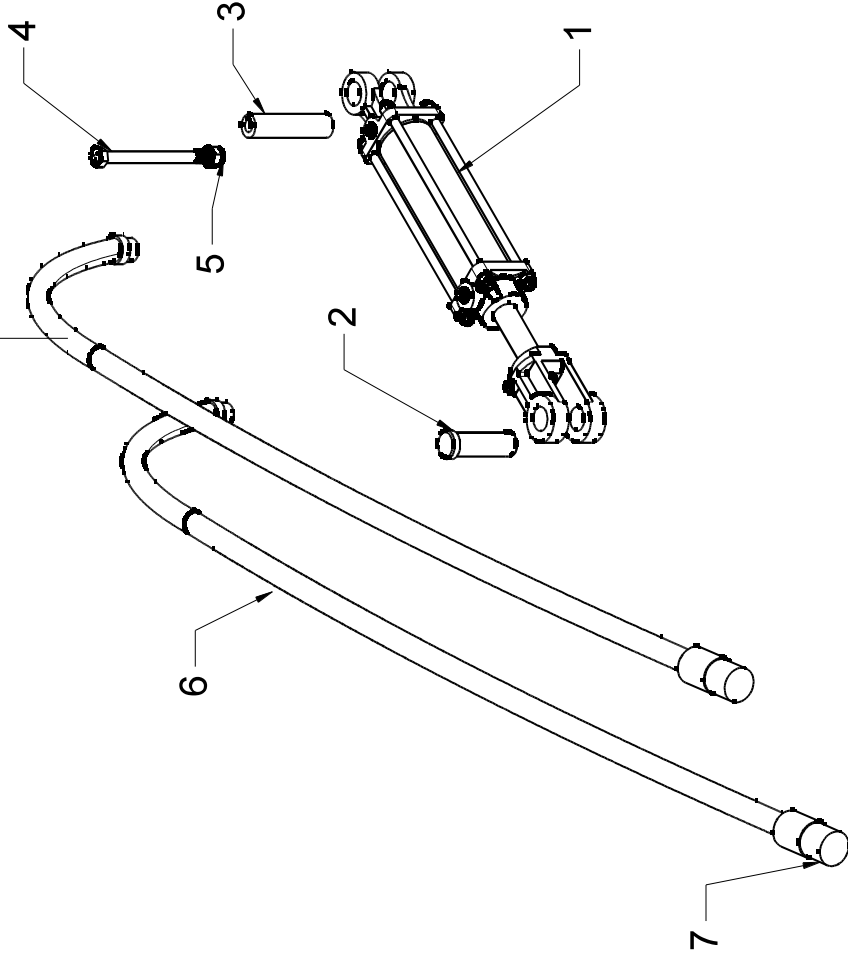
REVISIONS			
ZONE	REV	DESCRIPTION	DATE
APPROVED			



UNLESS OTHERWISE NOTED TOLERANCES ARE AS FOLLOWS .XX= ± .XXX= ± BENDS= ± 1° MATERIAL	DRAWN MWO	DATE 1/12/24	Nortec Equipment LLC 5311 Fuller St. Weston, WI 54476		
	CHECKED		Tractor Raptor Assembly		
	QA		SIZE A	FSCM NO.	DWG NO.
	MFG		SCALE	SHEET	1 OF 1
APPROVED					



REVISIONS			
ZONE	REV	DESCRIPTION	DATE
APPROVED			



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BENDS= ± 1°

MATERIAL

DRAWN

MWO

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QA

MFG

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DATE

1/12/24

Nortec Equipment LLC
5311 Fuller St.
Weston, WI 54476

TRACTOR HYDRAULIC CYLINDER ASSEMBLY

SIZE

A

FSCM NO.

DWG NO.

REV

SCALE

SHEET

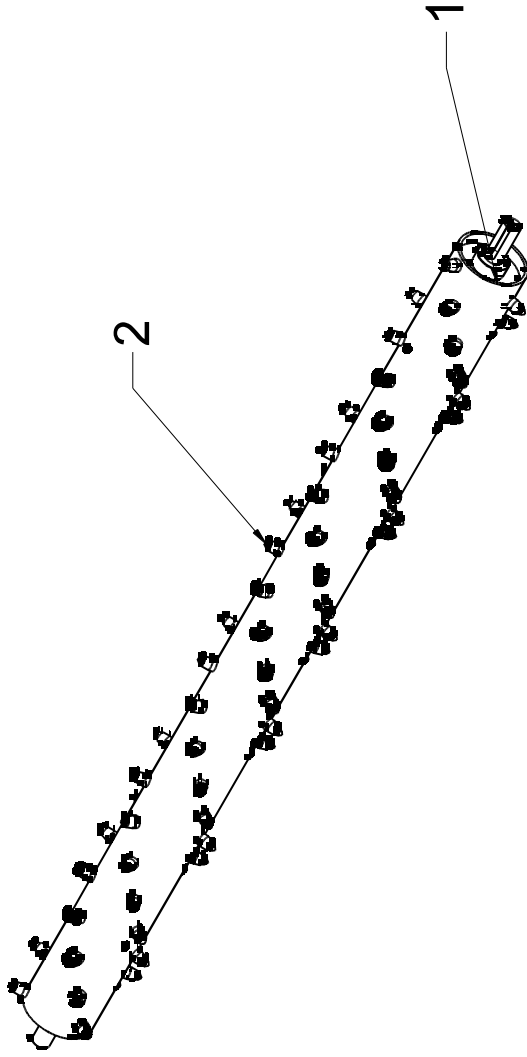
1 OF 1

Tractor Hydraulic Cylinder Assembly

Item #	Part Number	QTY	Description
1	NE-110002	1	Hyd Cyl. 2"bore 6" stroke
2	NE-110031	1	Hyd Cyl pin 1"
3	NE-300005	1	Hyd Cyl Pivot Tube
4	AC226	1	Hex Bolt 1/2-13 x 6.5 Gr5
5	CG030	1	Nylock Nut 1/2-13
6	NE-110047	2	Hyd Hose 1/4 x 72" -3/8npt male, 1/2npt male
7	NE-110020	2	Pioneer male 1/2npt



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	CHECKED		ROTOR ASSEMBLY		
	QA		SIZE A	FSCM NO.	DWG NO.
	MFG		SCALE	REV	
APPROVED			SHEET		1 OF 1



Rotor Assembly

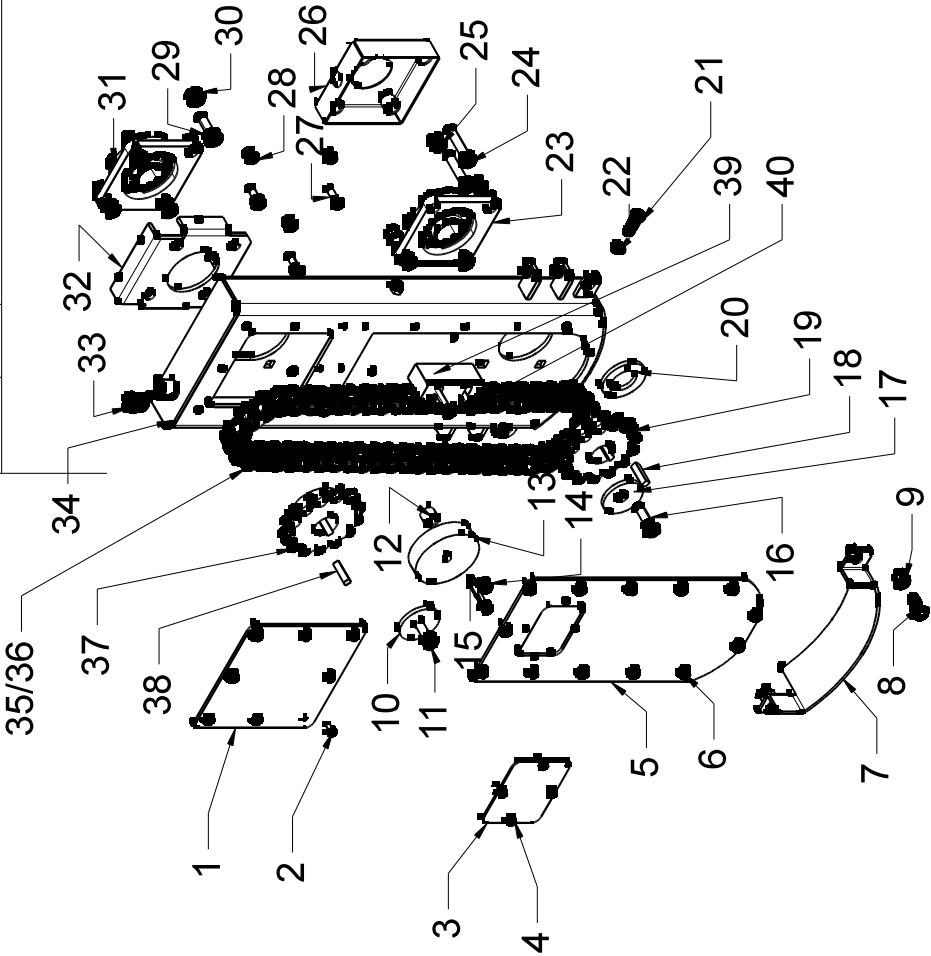
Item #	Part Number	QTY	Description
1	NE-800000-X	1	Rotor Welded complete
2	RPR5	Y	Agressor Tooth, Weld on

Rotor Length=X (ft length)

Y=number teeth

4ft	5ft	6ft	7ft	8ft	9FT
X=4	X=5	X=6	X=7	X=8	X=9
Y=48	Y=60	Y=72	Y=84	Y=96	Y=108
		10ft	12ft		
		X=10	X=12		
		Y=120	Y=144		

REVISIONS			
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			APPROVED



UNLESS OTHERWISE NOTED TOLERANCES ARE AS FOLLOWS .XX= ± .XXX= ± BENDS= ± 1° MATERIAL	DRAWN	DATE	Nortec Equipment LLC 5311 Fuller St. Weston, WI 54476		
	CHECKED		Compact Tractor Chain Case Assembly		
	QA				
	MFG		SIZE	FSCM NO.	DWG NO.
	APPROVED		A		
			SCALE	SHEET	1 OF 1

Compact Tractor Chain Case Assembly

Item #	Part Number	QTY	Description
1	NE-100001-37	1	Top Chain Case Cover
2	AI650040	8	Flange Bolt 1/4-28 x 1/2 Gr5
3	NE-100001-8	1	Inspection Cover
4	AI650040	4	Flange Bolt 1/4-28 x 1/2 Gr5
5	NE-100001-7	1	Bottom Chain Case Cover
6	AI650040	13	Flange Bolt 1/4-28 x 1/2 Gr5
7	NE-100001-42	1	Chain Case Shoe
8	AC205	2	Hex Bolt 1/2-13 x 1 Gr5
9	CG030	2	Nylock Nut 1/2-13
10	NE-100001-20	1	Washer
11	AG209	1	Hex Bolt 1/2-20 x 1-1/2 Gr5
12	NE-100001-24	1	Spacer
13	NE-100001-23	1	Compensator Wheel
14	CG024	1	Nylock Nut 3/8-16
15	BF352	1	Shoulder Bolt 1/2 x 1-1/2
16	AG209	1	Hex Bolt 1/2-20 x 1-1/2 Gr5
17	NE-100001-20	1	Washer
18	NE-100001-18	1	Key 3/8 Sq. x 1-1/2
19	NE-100001-15	1	Sprocket #80 14T
20	NE-100001-11	3	Spacer/ Washer
21	A3113	1	Hex Bolt 3/8-16 x 2-1/2 Gr5 Full Threads
22	CF106	1	Hex Nut 3/8-16
23	NE-100001-39	1	Flange Bearing 1-1/2 Lock Collar
24	BF564	4	Carr. Bolt 1/2-13 x 2-1/2 Gr5
25	CG030	4	Nylock Nut 1/2-13
26	NE-100001-14	1	Lower Bearing Cover
27	AC109	4	Hex Bolt 3/8-16 x 1-1/2 Gr5
28	CG024	4	Nylock Nut 3/8-16
29	BA5611	4	Carr. Bolt 1/2-13 x 2 Gr5
30	CG030	4	Nylock Nut 1/2-13
31	NE-100001-39	1	Flange Bearing 1-1/2 Lock Collar
32	NE-100001-53	1	Crossover Shield Mount
33	NE-100001-35	1	Chain Case Breather
34	NE-100001	1	Chain Case
35	NE-100001-16	1	Chain 80H (4.25ft, 51 links)
36	NE-100001-21	1	Chain Maser Link 80H
37	NE-100001-15	1	Sprocket #80 14T
38	NE-100001-18	1	Key 3/8 Sq. x 1-1/2
39	NE-100001-10	1	Chain Tensioner
40	BF334	2	Shoulder Bolt 3/8 x 1-3/4
41	NE-100001-54	1	Gasket Kit

Note: Nortec Part Number NE-100001-17 may be substituted for NE-100001-39.
NE-100001-17 does not have a lock collar, instead two set screws.



REVISIONS								
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					UNLESS OTHERWISE NOTED TOLERANCES ARE AS FOLLOWS •XX= ± •XXX= ± BENDS= ± 1°			
					MATERIAL			
					DRAWN MWO			
					CHECKED			
DATE 1/12/24								
Nortec Equipment LLC 5311 Fuller St. Weston, WI 54476								
Tractor Chain Case Assembly								
SIZE A								
FSCM NO.								
DWG NO.								
SCALE								
SHEET 1 OF 1								

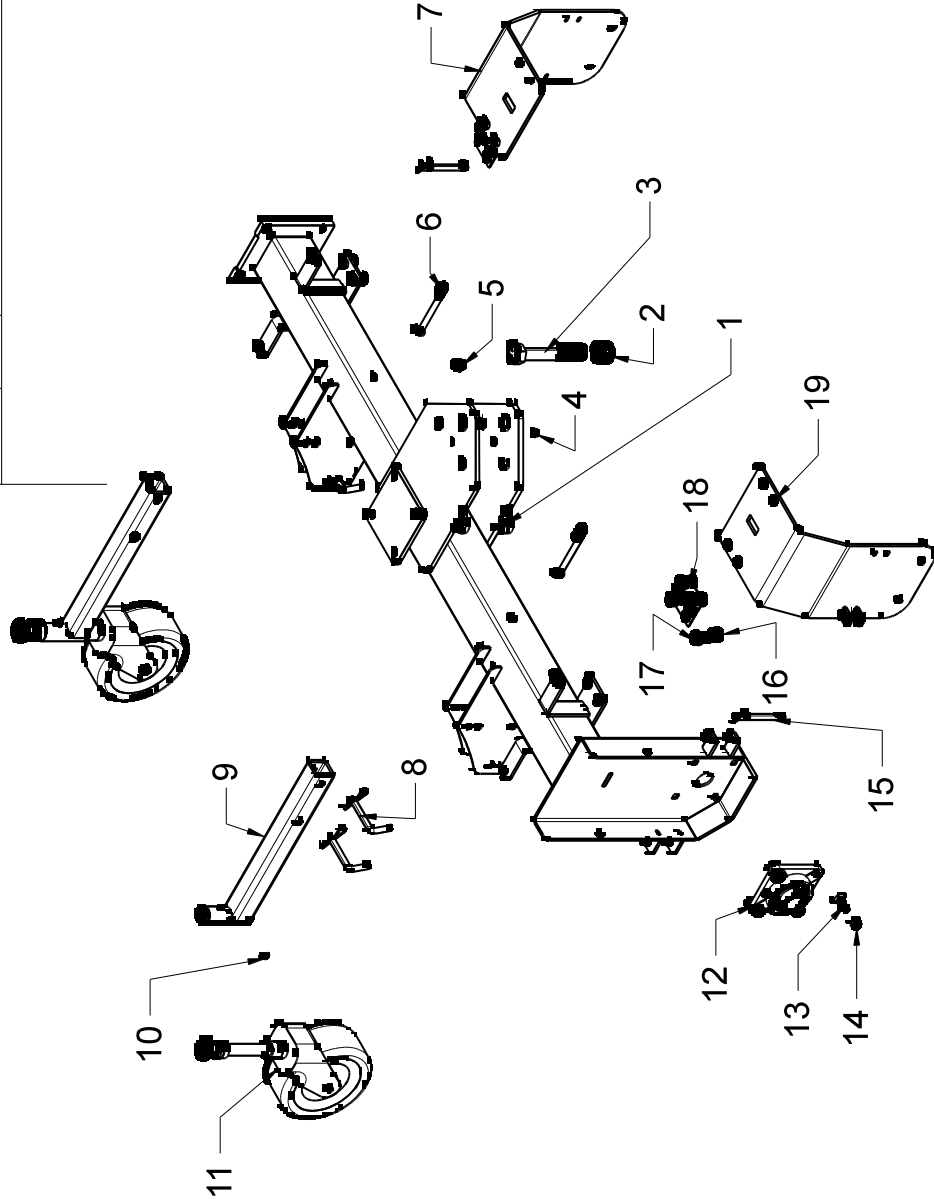
Tractor Chain Case Assembly

Item #	Part Number	QTY	Description
1	NE-100001-9	1	Tractor Top Chain Case Cover
2	AI650040	8	Flange Bolt 1/4-28 x 1/2 Gr5
3	NE-100001-39	1	Flange Bearing 1-1/2 Lock Collar
4	AC209	4	Hex Bolt 1/2-13 x 1-1/2 Gr5
5	CG030	4	Nylock Nut 1/2-13
6	CG024	1	Nylock nut 3/8-16
7	NE-100001-24	1	Spacer
8	BF352	1	Shoulder Bolt 1/2 x 1-1/2
9	NE-100001-23	1	Compensator Wheel
10	NE-100001-7	1	Bottom Chain Case Cover
11	AI650040	13	Flange Bolt 1/4-28 x 1/2 Gr5
12	NE-100001-8	1	Inspection Cover
13	AI650040	4	Flange Bolt 1/4-28 x 1/2 Gr5
14	NE-100001-42	1	Chain Case Shoe
15	AC205	2	Hex Bolt 1/2-13 x 1 Gr5
16	CG030	2	Nylock Nut 1/2-13
17	AG209	1	Hex Bolt 1/2-20 x 1-1/2 Gr5
18	NE-100001-20	1	Washer
19	NE-100001-18	1	Key 3/8 Sq. x 1-1/2
20	NE-100001-15	1	Sprocket #80 14T
21	BF334	2	Shoulder Bolt 3/8 x 1-3/4
22	NE-100001-10	1	Chain Tensioner
23	A3113	1	Hex Bolt 3/8-16 x 2-1/2 Gr5 Full Threads
24	CF106	1	Hex Nut 3/8-16
25	NE-100001-39	1	Flange Bearing 1-1/2 Lock Collar
26	NE-100001-14	1	Lower Bearing Cover
27	BF564	4	Carr. Bolt 1/2-13 x 2-1/2 Gr5
28	CG030	4	Nylock Nut 1/2-13
29	AC109	4	Hex Bolt 3/8-16 x 1-1/2 Gr5
30	CG024	4	Nylock Nut 3/8-16
31	AI650040	6	Flange Bolt 1/4-28 x 1/2 Gr5
32	NE-100001-22	1	Chain Case PTO Cover
33	CG030	4	Nylock Nut 1/2-13
34	BA5611	4	Carr. Bolt 1/2-13 x 2 Gr5
35	NE-100001-39	1	Flange Bearing 1-1/2 Lock Collar
36	NE-100001-13	1	Chain Case PTO Cover Mount
37	NE-100001-35	1	Chain Case Breather
38	NE-100001	1	Chain Case
39	NE-100001-12	1	chain case tractor top shaft
40	NE-100001-18	1	Key 3/8 Sq. x 1-1/2
41	NE-100001-15	1	Sprocket #80 14T
42	NE-100001-16	1	Chain 80H (4.25ft, 51 links)
43	NE-100001-21	1	Chain Maser Link 80H
44	NE-100001-11	1	Spacer/ Washer
45	NE-100001-54	0	Gasket Kit

Note: Nortec Part Number NE-100001-17 may be substituted for NE-100001-39.
NE-100001-17 does not have a lock collar, instead two set screws.



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UNLESS OTHERWISE NOTED TOLERANCES ARE AS FOLLOWS •XX= ± •XXX= ± BENDS= ± 1° MATERIAL	DRAWN MWO	DATE 10/7/24	Nortec Equipment LLC 5311 Fuller St. Weston, WI 54476			
	CHECKED		COMPACT TRACTOR FRAME ASSEMBLY			
	QA					
	MFG		SIZE A	FSCM NO.	DWG NO.	REV
	APPROVED		SCALE		SHEET	1 OF 1

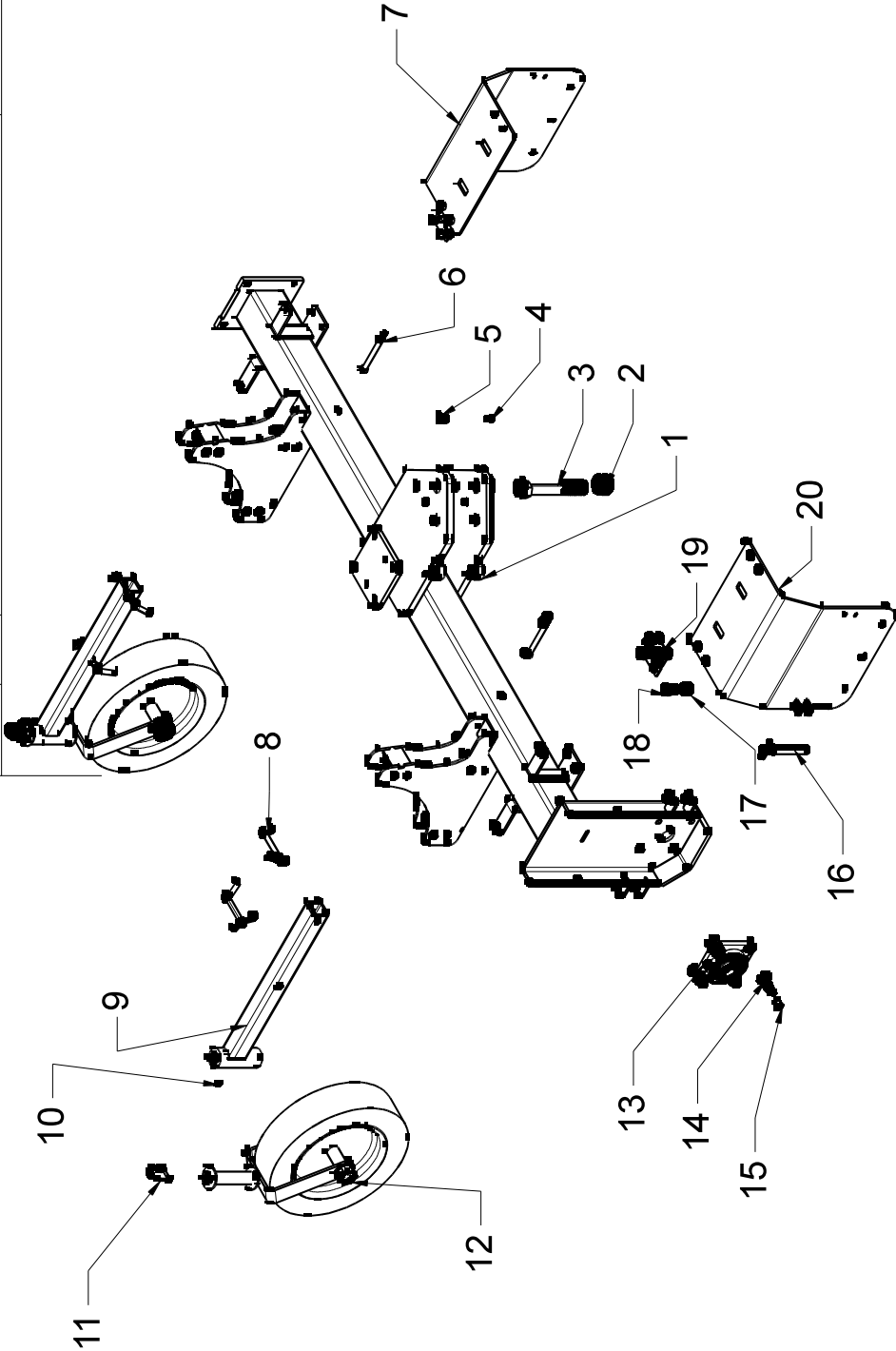
Compact Tractor Frame Assembly

Item #	Part Number	QTY	Description
1	NE-440000-X	1	Compact Tractor Frame
2	CG0458	1	Nylock Nut 1-8 Gr8
3	AE476	2	Hex Bolt 1-8 x 6.5 Gr8
4	F0102	1	Grease Zerk 1/8 NPT Straight
5	F0104	1	Grease Zerk 1/8 NPT 90°
6	AC223	2	Hex Bolt 1/2-13 x 5 Gr5
7	NE-620000	1	Left Side End Shield
8	NE-110032	4	1/2 Bent Pin 4"w/Clip
9	NE-710000	2	Tractor Guidwheel Arm
10	F0102	2	Grease Zerk 1/8 NPT Straight
11	NE-700005	2	Compact Guide Wheel Assembly
12	NE-100001-39	1	Flange Bearing 1-1/2 Lock Collar
13	BA5591	4	Carr. Bolt 1/2-13 x 1-1/2 Gr5
14	CG030	4	Nylock Nut 1/2-13
15	NE-600003	2	Shield Lock Pin (1/2")
16	CG030	8	Nylock Nut 1/2-13
17	AC205	8	Hex Bolt 1/2-13 x 1 Gr5
18	NE-600002	2	Shield Hinge
19	NE-610000	1	Right Side End Shield

Standard Machine Length= X

4ft	5ft	6ft
X-4	X=5	X=6

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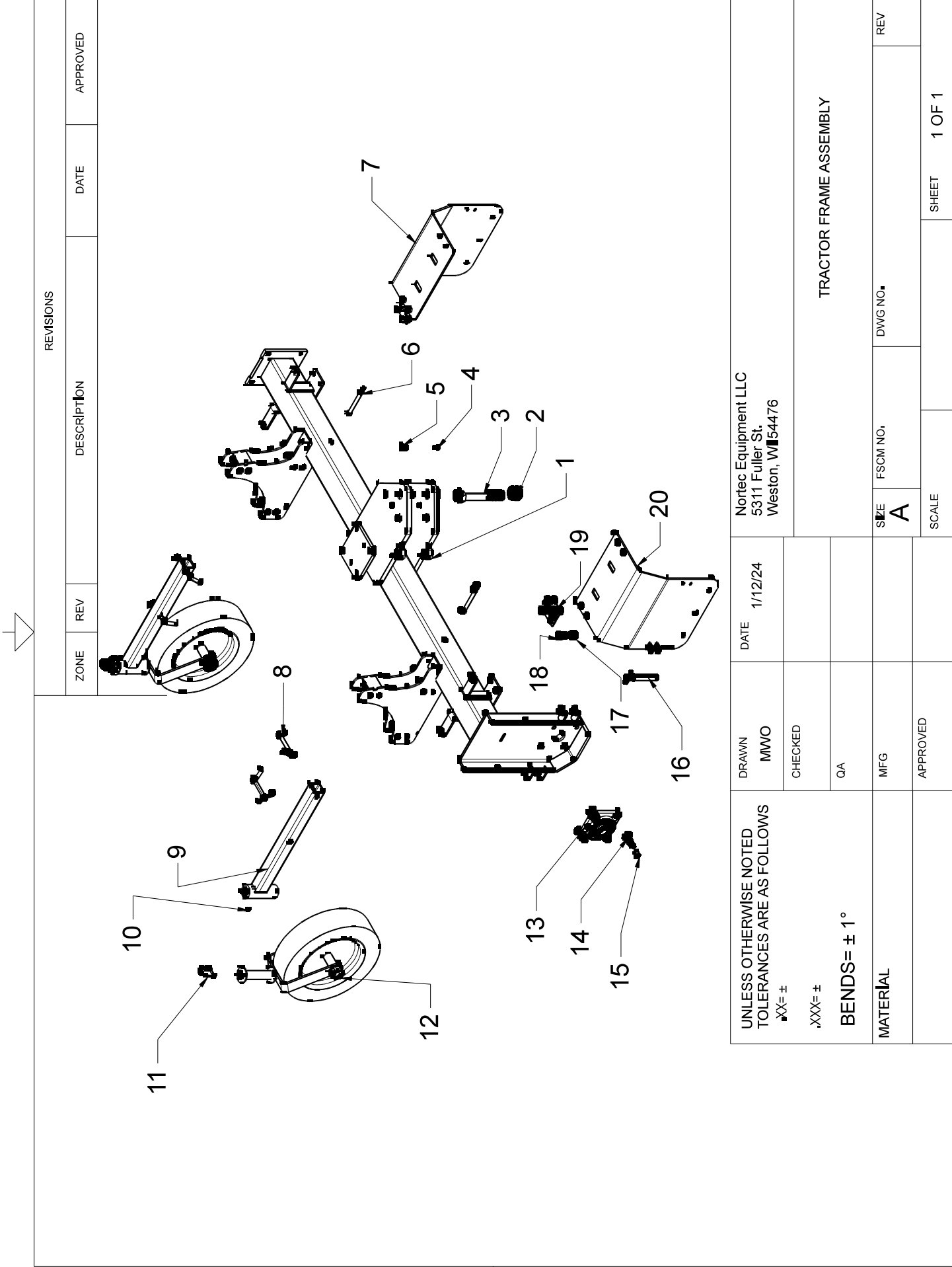
UNLESS OTHERWISE NOTED TOLERANCES ARE AS FOLLOWS .XX= ± .XXX= ± BENDS= ± 1°		DRAWN MWO	DATE 1/12/24	Nortec Equipment LLC 5311 Fuller St. Weston, WI 54476	
		CHECKED		TRACTOR FRAME ASSEMBLY	
MATERIAL		QA		SIZE A	FSCM NO.
		MFG		DWG NO.	REV
	APPROVED			SCALE	SHEET 1 OF 1

Standard Tractor Frame Assembly

Item #	Part Number	QTY	Description
1	NE-400000-X	1	Standard Tractor Frame
2	AE477	1	Hex Bolt 1-8 x 7.0 Gr8
3	CG0458	1	Nylock Nut 1-8 Gr8
4	F0102	1	Grease Zerk 1/8 NPT Straight
5	F0104	1	Grease Zerk 1/8 NPT 90°
6	AC223	2	Hex Bolt 1/2-13 x 5 Gr5
7	NE-600001	1	Left Side End Shield
8	NE-110032	4	1/2 Bent Pin 4"w/Clip
9	NE-700000	2	Tractor Guidwheel Arm
10	F0102	2	Grease Zerk 1/8 NPT Straight
11	NE-700004	2	Tail Wheel PIN 5/16 x 2.25
12	NE-70006	2	Guide Wheel Assembly
13	NE-100001-39	1	Flange Bearing 1-1/2 Lock Collar
14	BA5611	4	Carr. Bolt 1/2-13 x 2 Gr5
15	CG030	4	Nylock Nut 1/2-13
16	NE-600003	2	Shield Lock Pin (1/2")
17	CG030	8	Nylock Nut 1/2-13
18	AC205	8	Hex Bolt 1/2-13 x 1 Gr5
19	NE-600002	2	Shield Hinge
20	NE-600000	1	Right Side End Shield

Standard Machine Length= X

6ft	7ft
X=6	X=7



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ZONE	REV	DESCRIPTION	DATE
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UNLESS OTHERWISE NOTED TOLERANCES ARE AS FOLLOWS XX= ± XXX= ± BENDS= ± 1° MATERIAL			
DRAWN MWO		DATE 1/12/24	TRACTOR FRAME ASSEMBLY
CHECKED			
QA			
MFG			
APPROVED			SHEET 1 OF 1
			SCALE
			DWG NO.
			FSCM NO.
			SIZE A
			REV
			Nortec Equipment LLC 5311 Fuller St. Weston, WI 54476

Heavy Duty Tractor Frame Assembly

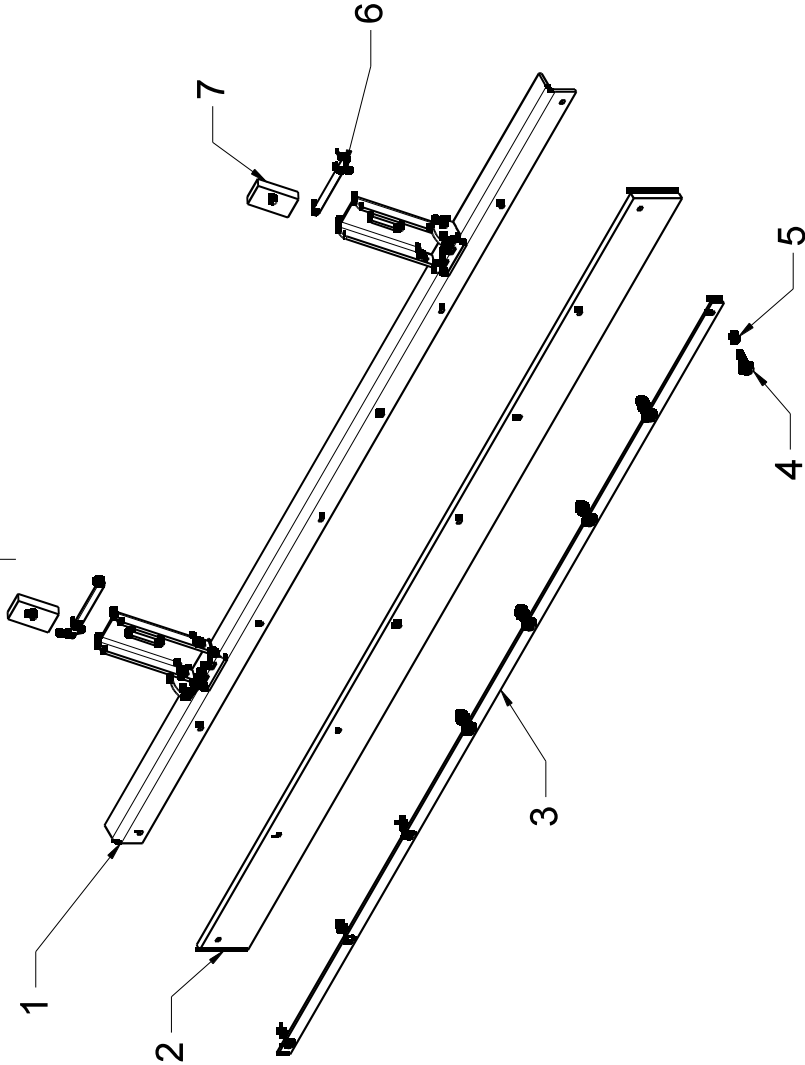
Item #	Part Number	QTY	Description
1	NE-410000-X	1	Heavy Duty Tractor Main Frame
2	AE477	1	Hex Bolt 1-8 x 7.0 Gr8
3	CG0458	1	Nylock Nut 1-8 Gr8
3	F0102	1	Grease Zerk 1/8 NPT Straight
4	F0104	1	Grease Zerk 1/8 NPT 90°
5	AC223	2	Hex Bolt 1/2-13 x 5 Gr5
6	NE-600001	1	Left Side End Shield
7	NE-110032	4	1/2 Bent Pin 4"w/Clip
8	NE-700000	2	Tractor Guidwheel Arm
9	F0102	2	Grease Zerk 1/8 NPT Straight
10	NE-700004	2	Tail Wheel PIN 5/16 x 2.25
11	NE-70006	2	Guide Wheel Assembly
12	NE-100001-39	1	Flange Bearing 1-1/2 Lock Collar
13	BA5611	4	Carr. Bolt 1/2-13 x 2 Gr5
14	CG030	4	Nylock Nut 1/2-13
15	NE-600003	2	Shield Lock Pin (1/2")
16	CG030	8	Nylock Nut 1/2-13
17	AC205	8	Hex Bolt 1/2-13 x 1 Gr5
18	NE-600002	2	Shield Hinge
19	NE-600000	1	Right Side End Shield

Heavy Duty Machine Length= X

6ft	7ft	8Ft
X=6	X=7	X=8



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UNLESS OTHERWISE NOTED TOLERANCES ARE AS FOLLOWS XX= ± XXX= ± BENDS= ± 1° MATERIAL	DRAWN MWO	DATE 1/12/24	Nortec Equipment LLC 5311 Fuller St. Weston, WI 54476		
	CHECKED		TRACTOR MATERIAL BAR ASSEMBLY		
	QA		SIZE A	FSCM NO.	DWG NO.
	MFG		SCALE	SHEET	1 OF 1
APPROVED					

Tractor Material Bar Assembly

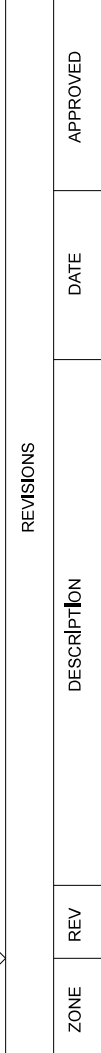
NE-500000-X

Item #	Part Number	QTY	Description
1	NE-500001-X	1	Skid Material Bar Frame
2	NE-500003-X	1	Material Bar Rubber
3	NE-500002-X	1	Washer Plate
4	NE-500004	2	Bar Mount Washer/nut
5	BA2591	Y	Carr. Bolt 5/16-18 x 1-1/2 Gr5
6	CG021	Y	Nylock Nut 5/16-18

Machine Length=X

Y=Quantity

4ft	5ft	6ft	7ft	8ft X
X=4	X=5	X=6	X=7	X=8
Y=6	Y=8	Y=8	Y=9	Y=11



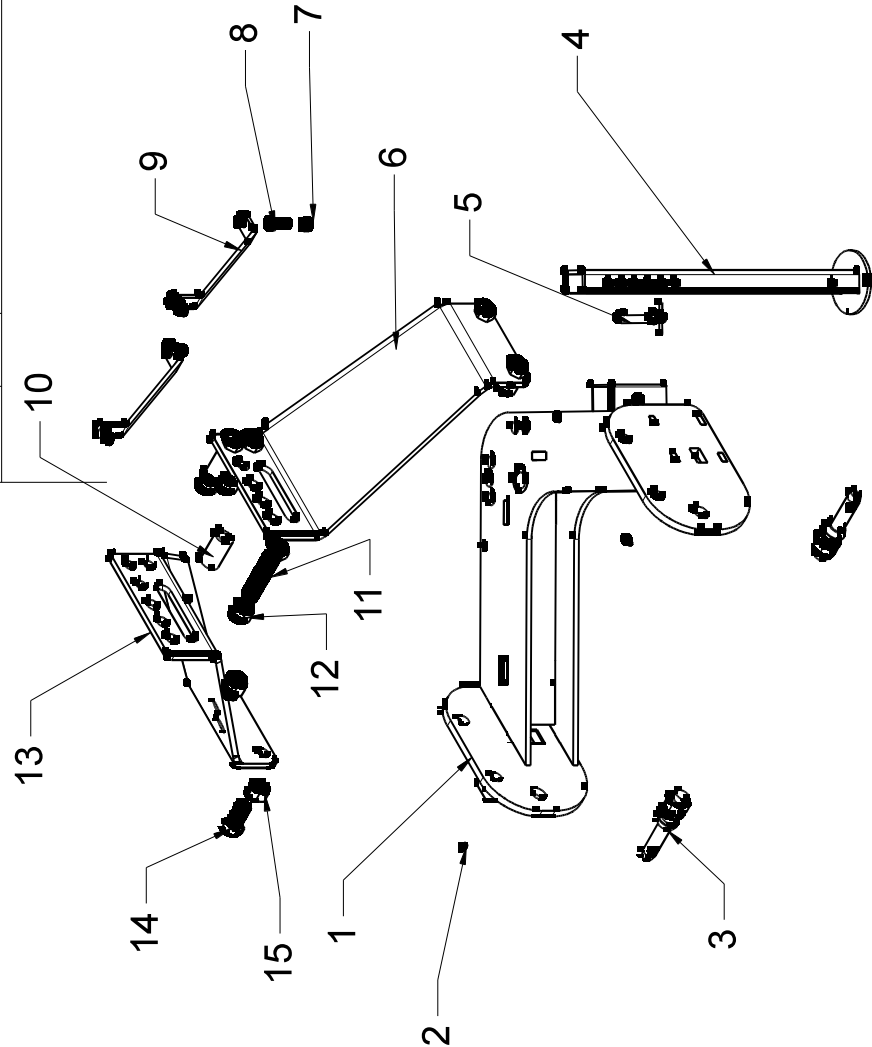
UNLESS OTHERWISE NOTED TOLERANCES ARE AS FOLLOWS •XX= ± •XXX= ± BENDS= ± 1°	DRAWN MWO	DATE 10/7/24	Nortec Equipment LLC 5311 Fuller St. Weston, WI 54476			
	CHECKED		COMPACT CAT 1 HITCH ASSEMBLY			
	QA					
MATERIAL	MFG		SIZE A	FSCM NO.	DWG NO. NE-240000	REV
	APPROVED		SCALE		SHEET	1 OF 1

Compact Cat 1 Hitch

NE-240000

Item #	Part Number	QTY	Description
1	NE-240001	1	Compact CAT 1 BEAM
2	F0102	2	Grease Zerk 1/8 NPT Straight
3	NE-200008	2	CAT 1 PIN
4	NE-200002	1	JACKSTAND
5	NE-600003	1	Lock Pin (1/2")
6	NE-240005	1	Compact CAT 1 Left Upright Frame
7	CG024	4	Nylock nut 3/8-16
8	AC109	4	Hex Bolt 3/8-16 x 1-1/2 Gr5
9	NE-200003	2	Cat 1 Rear Strap
10	NE-240006	3	Compact Cat 1 Upright Spacer
11	AC217	3	Hex Bolt 1/2-13 x 3.5 Gr5
12	CG030	3	Nylock nut 1/2-13
13	NE-240004	1	Compact Cat 1 Right Upright Frame
14	AC211	4	Hex Bolt 1/2-13 x 2 Gr5
15	CG039	4	Nylock nut 1/2-13

REVISIONS			
ZONE	REV	DESCRIPTION	DATE
			APPROVED

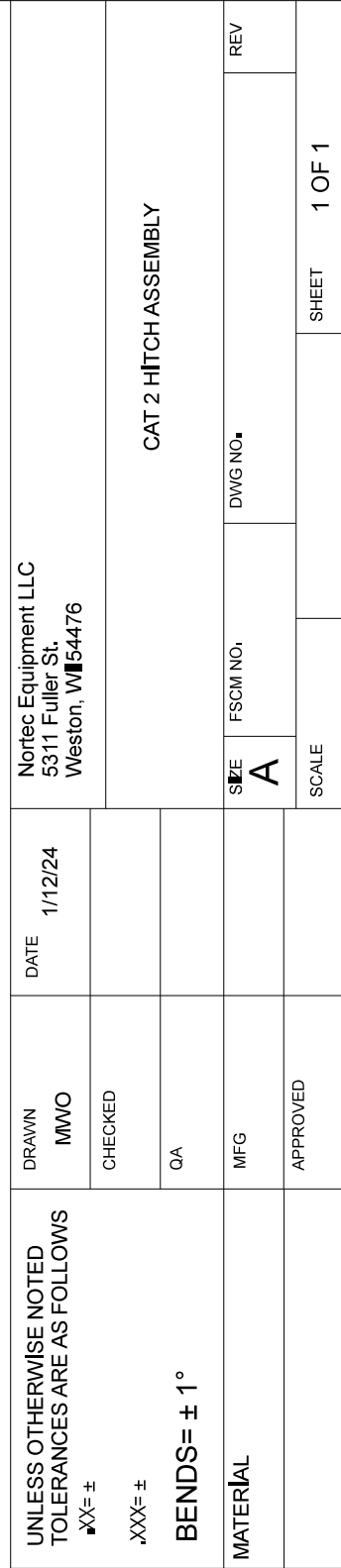


UNLESS OTHERWISE NOTED TOLERANCES ARE AS FOLLOWS .XX= ± .XXX= ± BENDS= ± 1° MATERIAL	DRAWN MWO	DATE 1/12/24	Nortec Equipment LLC 5311 Fuller St. Weston, WI 54476	
	CHECKED		STANDARD CAT 1 HITCH ASSEMBLY	
	QA		SIZE A	FSCM NO. DWG NO.
	MFG		SCALE	REV
APPROVED			SHEET	1 OF 1

STANDARD Cat 1 Hitch

NE-200000

Item #	Part Number	QTY	Description
1	NE-200001	1	CAT 1 BEAM
2	F0102	2	Grease Zerk 1/8 NPT Straight
3	NE-200008	2	CAT 1 PIN
4	NE-200002	1	JACKSTAND
5	NE-600003	1	Lock Pin (1/2")
6	NE-200005	1	CAT 1 Left Upright Frame
7	CG024	4	Nylock nut 3/8-16
8	AC109	4	Hex Bolt 3/8-16 x 1-1/2 Gr5
9	NE-200003	2	Cat 1 Rear Strap
10	NE-200006	3	Cat 1 Upright Spacer
11	AC369	3	Hex Bolt 3/4-10 x 4 Gr5
12	CG039	3	Nylock nut 3/4-10
13	NE-200004	1	Cat 1 Right Upright Frame
14	AC361	4	Hex Bolt 3/4-10 x 2 Gr5
15	CG039	4	Nylock nut 3/4-10



Cat 2 Hitch

NE-210000

Item #	Part Number	QTY	Description
1	NE-210001	1	CAT 1 BEAM
2	F0102	2	Grease Zerk 1/8 NPT Straight
3	NE-200007	2	Dual Cat 1/Cat 2 Pin
4	NE-200002	1	JACKSTAND
5	NE-600003	1	Lock Pin (1/2")
6	NE-210005	1	CAT 2 Left Upright Frame
7	CG024	4	Nylock nut 3/8-16
8	AC109	4	Hex Bolt 3/8-16 x 1-1/2 Gr5
9	NE-210003	2	Cat 2 Rear Strap
10	NE-210006	3	Cat 2 Upright Spacer
11	AC374	3	Hex Bolt 3/4-10 x 5-1/2 Gr5
12	CG039	3	Nylock nut 3/4-10
13	NE-210004	1	Cat 2 Right Upright Frame
14	AC361	4	Hex Bolt 3/4-10 x 2 Gr5
15	CG039	4	Nylock nut 3/4-10



REVISIONS			
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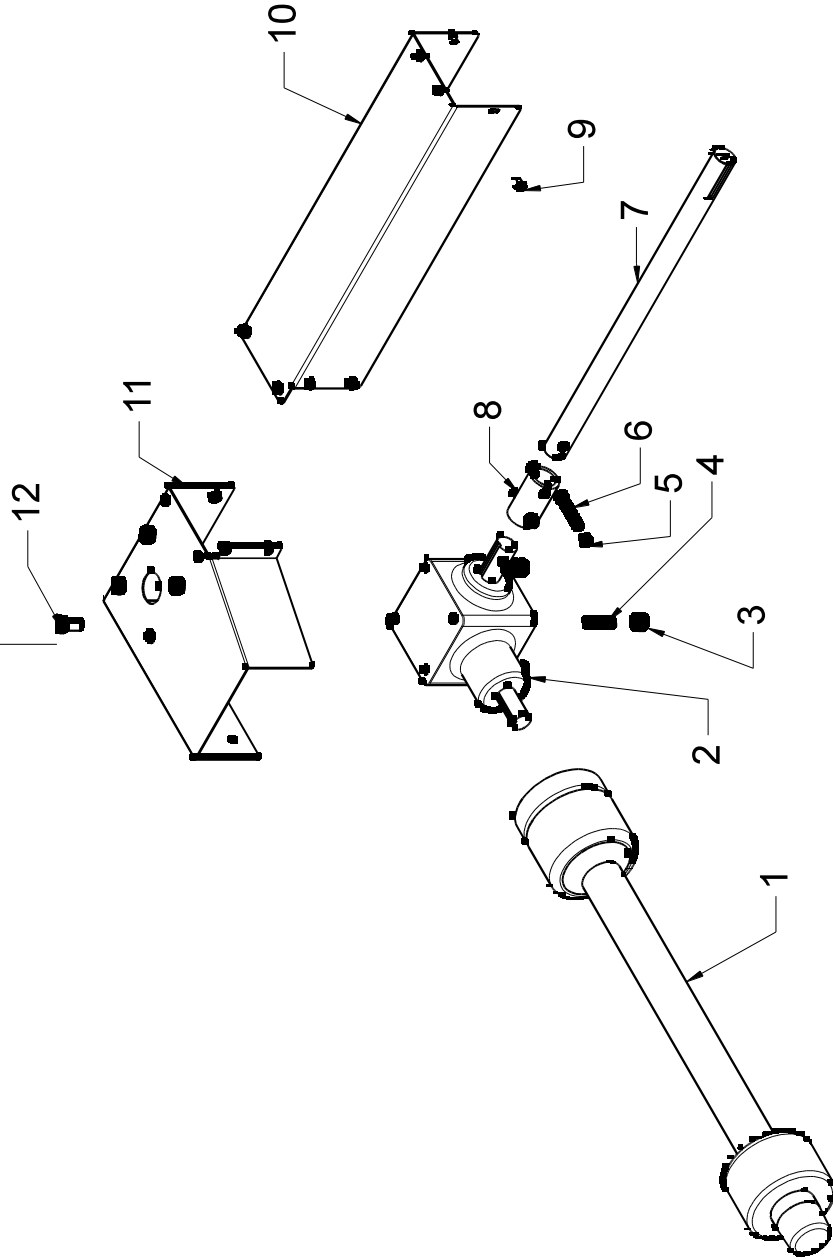
APPROVED

DATE

DESCRIPTION

REV

ZONE



UNLESS OTHERWISE NOTED
TOLERANCES ARE AS FOLLOWS

•XX= ±

•XXX= ±

BENDS= ± 1°

MATERIAL

DRAWN
MWO

CHECKED

QA

MFG

APPROVED

DATE
10/8/24

Nortec Equipment LLC
5311 Fuller St.
Weston, WI 54476

COMPACT TRACTOR RAPTOR DRIVELINE

SIZE
A

FSCM NO.

DWG NO.

REV

SCALE

SHEET

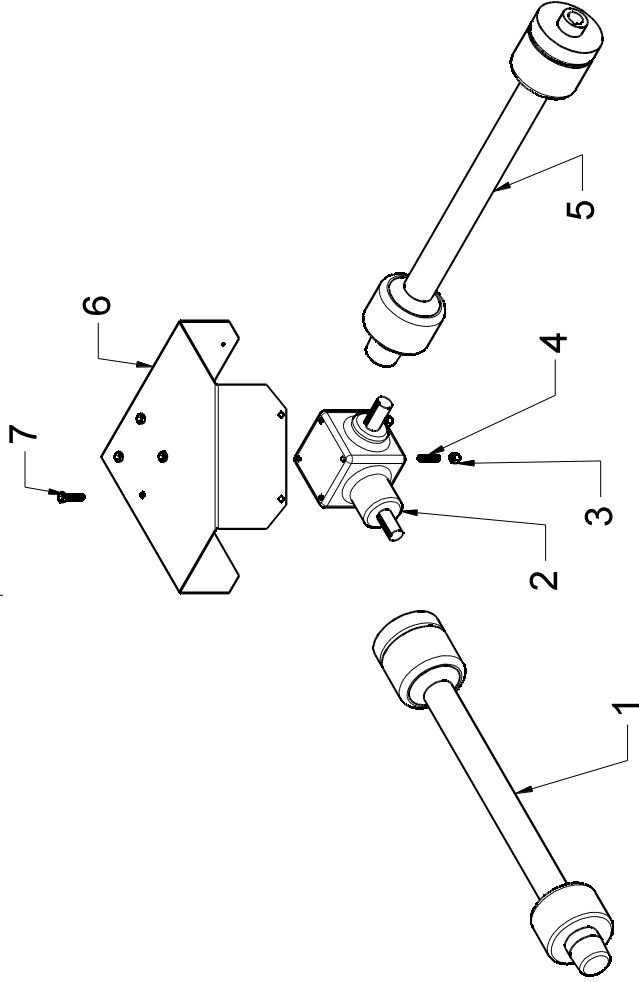
1 OF 1

Compact Tractor Driveline

	Item #	Part Number	QTY	Description
	1	NE-110006	1	540 PTO Shaft_Slip Clutch, 34-44.2
	2	NE-300006	1	Compact Gearbox
	3	CG030	4	Nylock Nut 1/2-13
	4	SC0684	4	Stud 1/2-13 x 2-1/4 Z
	5	CG024	2	Nylock nut 3/8-16
	6	AC116	2	Hex Bolt 3/8-16 x 3.25 Gr5 Partial THRD
4FT	7	NE-100001-40-4	1	4FT Crossover Shaft
5FT	7	NE-100001-40-5	1	5FT Crossover Shaft
6FT	7	NE-100001-40-6	1	6FT Crossover Shaft
	8	NE-100001-52	1	COMPACT COUPLER
	9	AI650040	9	Flange Bolt 1/4-28 x 1/2 Gr5
4FT	10	NE-440006-4	1	Compact Crossover Shield
5FT	10	NE-440006-5	1	Compact Crossover Shield
6FT	10	NE-440006-6	1	Compact Crossover Shield
	11	NE-440005	1	Compact Gearbox PTO Shield
	12	AC211	4	Hex Bolt 1/2-13 x 2 Gr5



REVISIONS			
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.XXX= ±

BENDS= ± 1°

MATERIAL

DRAWN
MWO

CHECKED

QA

MFG

APPROVED

DATE
1/12/24

Nortec Equipment LLC
5311 Fuller St.
Weston, WI 54476

Tractor Driveline

SIZE A	FSCM NO.	DWG NO.	REV
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SCALE	SHEET 1 OF 1
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Tractor Driveline

	Item #	Part Number	QTY	Description
	1	NE-110005	1	540 PTO Shaft, 40.39-51.9
	2	NE-300006	1	STD/HD Gearbox
	3	CG030	4	Nylock Nut 1/2-13
	4	SC0684	4	Stud 1/2-13 x 2-1/4 Z
6FT	5	NE-110006	1	540 PTO Shaft Slip Clutch **must cut to length**
7FT	5	NE-110006	1	540 PTO Shaft Slip Clutch **must cut to length**
8FT	5	NE-110008	1	540 PTO Shaft Slip Clutch **must cut to length**
	6	NE-300004	1	Gearbox PTO Shield
	7	AC211	4	Hex Bolt 1/2-13 x 2 Gr5