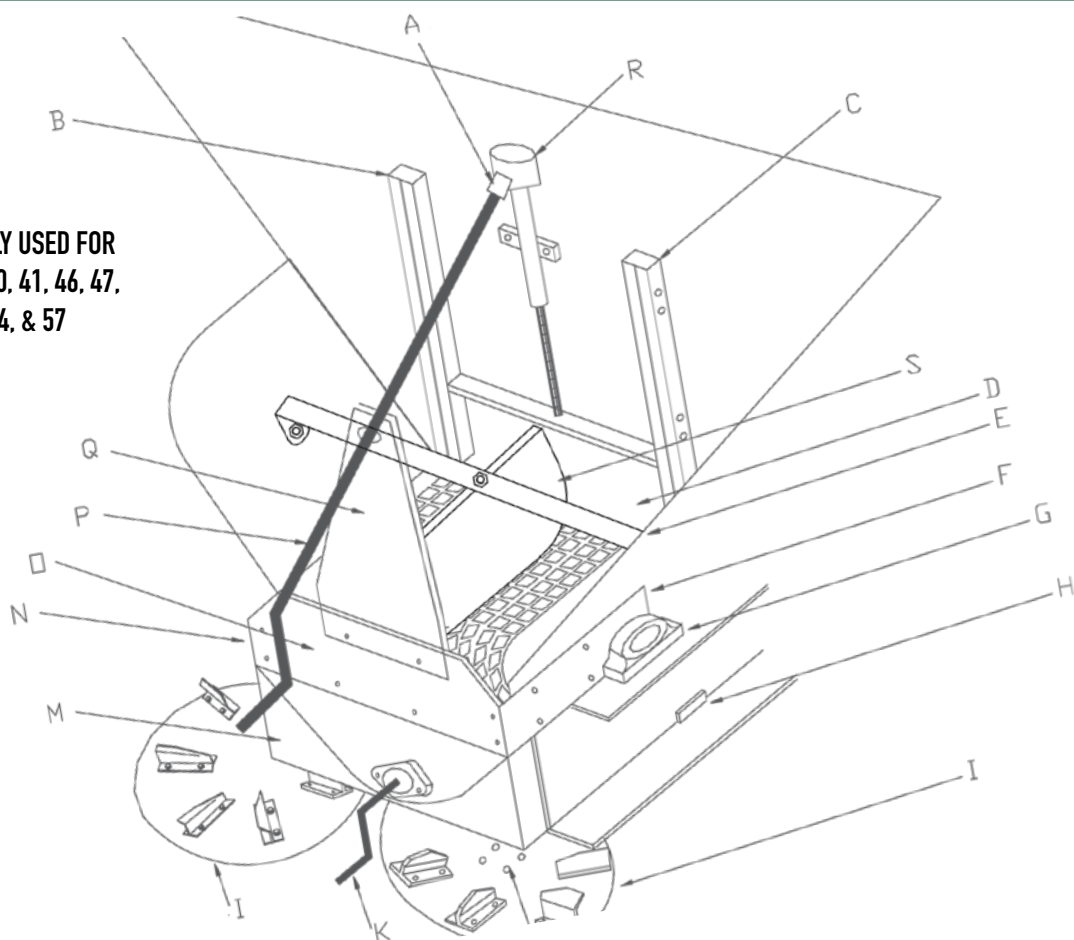


**COMMONLY USED FOR
MODELS 40, 41, 46, 47,
49, 54, & 57**



REAR PARTS FOR CHAIN CONVEYOR OR BELT-OVER-CHAIN CONVEYOR

Ref No.	16"	24"	24" BOC	Part No.	Description	Ref No.	16"	24"	24" BOC	Part No.	Description
A	1	1	1	JA-BB100002801A00 JA-SSBB100002801A	Gate Handle Universal Extension, MS Gate Handle Universal Extension, SS	M	1	-	-	NC-025008AAA	Chute Assy w/ Coupling, 16"
B	1	1	1	NC-025010ALH	Gate Slide, LH	M	-	1	1	NC-025008AO	Chute Assy w/ Coupling, 24"
C	1	1	1	NC-025010ARH	Gate Slide, RH	M1	1	1	1	CN-0"5008AWA	Chute Coupling w/ Grease Fitting * 1 = Mild, 2= Stainless Steel
D	1	-	-	NC-025010B	Metering Gate, 16"	N	1	1		NC-025008KLH	Chute, Side Bracket, LH
D	-	1	-	NC-025010C	Metering Gate, 24"	N	-	-	1	NC-025008BRLH	Chute, Side Bracket, LH, BOC
D	-	-	1	NC-025010AM	Metering Gate, 24" BOC	O	1	-	-	NC-025008A	Chute Bearing Bracket, 16"
E	-	-	-	"Conveyor Parts, 16" & 24"" on page 35 "Conveyor w/ controller, 16 & 24"" on page 36		O	-	1	-	NC-025008B	Chute Bearing Bracket, 24"
F	1	1	-	NC-025008KRH	Chute Side Bracket, RH	O	-	-	1	NC-025008BQ	Chute Bearing Bracket, BOC
F	-	-	1	NC-025008BRRH	Chute, Side Bracket, RH, BOC	P	1	1	1	NC-025010T	Gate Handle Extension
G	2	-	-	BR-PB112	Pillow Block Bearing, 1 ½"	P	1	1	1	NC-025010AL	Gate Handle Extension, Model 47 NC Spreadit
G	-	2	-	BR-PB200	Pillow Block Bearing, 2"	Q	1	1	1	NC-025011A	Gate Handle Extension Bracket
G	-	-	2	BR-PB200HD	Pillow Block Bearing, 2", HD	R	1	1	1	JA-620198	Gate Jack w/ Stubs,SS
H	1	1	1	SM-N147	Chute, Scale, Weld On	S	1	1	1	NC-025008CF	Chute Divider & Brace Assy Model 54 Only
I, J	-	-	-	"Spinner Dishes & Blades" on page 30							
K	1	1	1	NC-0"5008AP	Chute Screw w/ Bearing * 1 = Mild, 2= Stainless Steel						

NC SERIAL NUMBER: _____ (SERIAL NUMBER IS LOCATED NEAR LEFT HAND TIRE WHEN STANDING AT REAR OF UNIT.)

Serial Number aids NC Parts Department to retrieve information about how unit was manufactured.

PLEASE HAVE THESE MEASUREMENTS WHEN ORDERING PARTS:

REAR ROLLER	Shaft Diameter _____	Length _____	# of Teeth _____
Bed Chain	Width _____	Pin: Straight or Clinched	Length of Spreader Bed _____
Drive for Shaft	Gear Box _____	Ground Wheel Drive _____	
SPROCKETS	Bore Size _____	Teeth _____	Key _____
ROLLER CHAIN	Size _____	Length _____	Connectors _____

ROLLER AND HYDRAULIC PARTS

Part No.	Description	Part No.	Description
REAR ROLLERS (RR) FOR CLINCHED CHAINS		FRONT ROLLERS (FR)	
CN-015005CU	RR, 16", 1 1/2" X 26 1/2", Pull Type, 7 Spkt	NC-015005AA*	FR, 8" Split Straight Chain, 1 1/2" x 23", 2 Spkt
CN-015005CR	RR, 16", 1 1/2" X 27", Truck, 7 Spkt	NC-015005EE*	FR, 12" Split Straight Chain, 1 1/2" x 31", 2 Spkt
CN-015005DB	RR, 16", 2" x 28", Truck, 7 Spkt	CN-015005W	FR, 16" 1 1/2" x 22", 1" Ends, No Sprockets
CN-015005CO	RR, 24", 2" X 36", Truck, 11 Spkt	CN-015005R	FR, 16", 1 1/2" x 22", No Sprockets, Clinched/ Straight
CN-015005DD	RR, 24", 2" X 36", Pull Type, 11 Spkt	CN-015005M	FR, 24", 1 1/2" x 31", No Sprockets, Clinched/ Straight
REAR ROLLERS (RR) FOR STRAIGHT PIN CHAIN		NC-015005CH	FR, 24" Belt Over Chain, 1 1/2" x 31, 2 Spkt
NC-015005CC*	RR, 8" Split Straight Chain, 2" x 18 3/4", 4 Spkt	AIR VENT	
NC-015005EF*	RR, 12" Split Straight Chain, 2" x 22 3/4", 4 Spkts	NC-MDAIRVEN-TASSY	Air Vent Kit for Mid-Tech
CN-015005V	RR, 16", 1 1/2" X 26 1/2", Pull Type, 9 Spkt	Order 1 of each: BN-AHSH5161 CL-0600 HO-CT38BPVC TP-HB038	Air Vent for Raven Needs Below: Allen Head Screw, 3/16" x 1" Clamp, 3/8" Hose, 3 Feet Needed Hose Barb, 3/8"
CN-015005S	RR, 16", 1 1/2" X 27", Truck, 9 Spkt	GB-301040	Pressure Relief Plug for Gear Box
CN-015005AT	RR, 16", 1 1/2" x 45", Model 49 PT Only, 9 Spkt	FLOW CONTROL ALUMINUM BLOCK - PULL TYPE ONLY	
CN-015005T	RR, 16", 2" X 28", Truck, 9 Spkt	HH-848FSO0808	Hyd Fitting, 1/2" Male JIC, 1/2" O Ring (need 4)
CN-015005U	RR, 24", 2" X 36", Pull Type, 13 Spkt	HV-4LINEMANI-FOLD0	Flow Control Block
CN-015005CE	RR, 24", 2" x 36", Truck, 13 Spkt	HV-4LMANIFOLD-KNOB	Knob for Flow Control Block
REAR ROLLERS (RR) FOR HEAVY DUTY STRAIGHT PIN CHAIN		WHEN ORDERING REAR ROLLER FOR GEAR BOX:	
NC-015005EK	RR Assy, 24", 2" x 36" Rawson, HD Reinforced Straight Chain, 13 Spkt	- Rear Roller with 1 1/2" shaft is not machined and does not need a screw - Rear Roller with 2" shaft is machined down to fit into the gear box. The end that goes into the gear box drilled and tapped to fit a screw BN-AHSH5161)	
NC-015005EN	RR Assy, 24", 2" x 36" HD Reinforced Straight Chain, 13 Spkt	WHEN ORDERING REAR ROLLER FOR SPLIT CONVEYOR CHAIN:	
REAR ROLLER (RR) FOR BELT OVER CHAIN		Order 2 rear rollers and 2 front rollers	
NC-015005CI	RR, 24" BOC, 2" x 36", Truck, 2 Spkt		
REAR ROLLER COVER PLATE			
PM-025005J	SS, Rear Roller Cover Plate, 8" Split Chain		
PM-025005EK	SS, Rear Roller Cover Plate, 12" Split Chain		
PM-025005A	SS, Rear Roller Cover Plate, 16" Straight		
PM-025005CW	SS, Rear Roller Cover Plate, 16" Clinched		
PM-025005B	SS, Rear Roller Cover Plate, 24" Straight		
PM-025005CN	SS, Rear Roller Cover Plate, 24", Clinched		

GENERAL KNOWLEDGE:

- Spinner Dish Assemblies are blades mounted on dishes and do not contain spinner hubs
- Spinner Hubs found on *page 31*
- Dishes are slightly concave unless specified flat or special
- Right hand dishes rotate counter clockwise, require RH blades
- Left hand dishes rotate clockwise, require LH blades
- SS - 304 Stainless Steel, designated by 01 in part #
- MS - Mild Steel, designated by 02 in part #

24" STANDARD UNIVERSAL:

- Dish - 24" diameter dish, SS - 10 gauge, MS - $\frac{3}{16}$ "
- Blades - six blades, 6" long, SS - 10 gauge, MS - $\frac{3}{16}$ "
- Universal dish requires LH or RH blades to make dish LH or RH

24" HEAVY DUTY UNIVERSAL:

- Dishes manufactured of heavier gauges that stand up to lime spreading better.
- Dishes - 24" diameter, $\frac{3}{16}$ " thick SS or MS, 6 pair of holes
- Blades - six blades; 6" long, $\frac{1}{4}$ " thick SS or MS
- Placement of blades makes dish LH or RH

24" EXTENDED RANGE: (REQUIRES HIGHER RPM)

- Dishes and blades allow for spread patterns up to 80 feet
- Dishes - 24" diameter, $\frac{3}{16}$ " thick, universal LH or RH
- Blades - four blades; 9" long, $\frac{1}{4}$ " thick, 3 bolts, adjustable
- Placement of blades makes dish LH or RH

28" & 30" FLAT DISHES

- Flat Assemblies and dishes are not concave
- 28" & 30" flat dishes commonly used to spread litter & PLT
- Blades - six blades; $\frac{1}{4}$ " thick blades
- To use flat dishes, special requirements must be met
- Placement of blade makes dish LH or RH

28" DIAMETER - MODELS 30 & 31

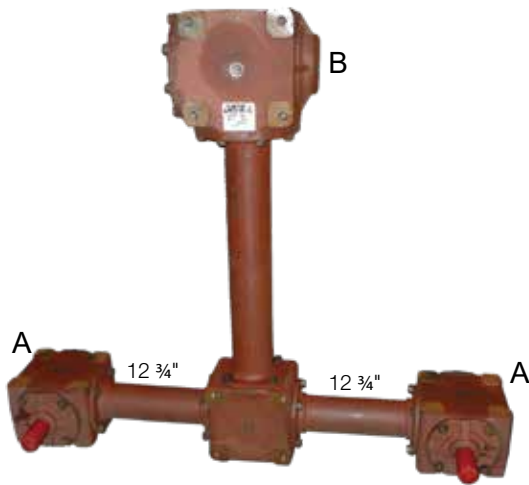
30" DIAMETER - MODELS 30, 31, 47PLT, & 54PLT

PART NO.	DESCRIPTION	# OF BLADES
28" DISH ASSEMBLIES/NO HUB		
NC-015006XRH	28" Flat Spinner Assy, MS, $\frac{1}{4}$ " Dish & Blade	6 RH
NC-015006XLH	28" Flat Spinner Assy, MS, $\frac{1}{4}$ " Dish & Blade	6 LH
28" DISHES ONLY		
PM-015006Y	28" Flat Spinner Dish, MS, $\frac{1}{4}$ " Universal	6
BLADES FOR 28" DISHES		
NC-015007XRH	10 $\frac{1}{4}$ " Spinner Blade, MS, $\frac{1}{4}$ ", 3 Hole, Litter	6 RH
NC-015007XLH	10 $\frac{1}{4}$ " Spinner Blade MS, $\frac{1}{4}$ ", 3 Hole, Litter	6 LH
30" DISH ASSEMBLIES/NO HUB		
NC-025006XRH	30" Flat Spinner Assy, SS, $\frac{1}{4}$ " Dish & (6) NC-025007URH	
NC-025006XLH	30" Flat Spinner Assy, SS, $\frac{1}{4}$ " Dish & (6) NC-025007ULH	
30" DISHES ONLY		
PM-025006S	30" Flat Spinner Dish, SS, $\frac{1}{4}$ " Universal	6
BLADES FOR 30" DISHES		
NC-025007URH	11 $\frac{1}{8}$ " Spinner Blade, SS, $\frac{1}{4}$ ", Straight, RH	6 RH
NC-025007ULH	11 $\frac{1}{8}$ " Spinner Blade, SS, $\frac{1}{4}$ ", Straight, LH	6 LH
NC-025007ABRH	11 $\frac{1}{8}$ " Spinner Blade, SS, $\frac{1}{4}$ ", Top Angle, RH	6 RH
NC-025007ABLH	11 $\frac{1}{8}$ " Spinner Blade, SS, $\frac{1}{4}$ ", Top Angle, LH	6 LH
BN-SSH5161	Bolt to Mount $\frac{1}{4}$ " Blade onto HD Dish	

24" DIAMETER

MODELS 30, 31, 41, 44, 47, 49, 54, & 57

PART NO.	DESCRIPTION	# OF BLADES
24" DISH ASSEMBLIES/NO HUB		
NC-025006MRH	Spinner Dish Assy, SS, 10 Gauge Dish & Blades	6 RH
NC-015006MRH	Spinner Dish Assy, MS, $\frac{3}{16}$ " Dish & $\frac{3}{16}$ " Blades	6 RH
NC-025006MLH	Spinner Dish Assy, SS, 10 Gauge Dish & Blades	6 LH
NC-015006MLH	Spinner Dish Assy, MS, $\frac{3}{16}$ " Dish & $\frac{3}{16}$ " Blades	6 LH
NC-025006PRH	HD Spinner Dish Assy, SS, $\frac{3}{16}$ " Dish & $\frac{1}{4}$ " Blades	6 RH
NC-015006ORH	HD Spinner Dish Assy, MS, $\frac{3}{16}$ " Dish & $\frac{1}{4}$ " Blade	6 RH
NC-025006PLH	HD Spinner Dish Assy, SS, $\frac{3}{16}$ " Dish & $\frac{1}{4}$ " Blades	6 LH
NC-015006OLH	HD Spinner Dish Assy, MS, $\frac{3}{16}$ " Dish & $\frac{1}{4}$ " Blade	6 LH
NC-025006VRH	HD Spinner Dish Assy, SS, $\frac{3}{16}$ " Dish & $\frac{1}{4}$ " Blades, Extended Range	4 RH
NC-015006VRH	HD Spinner Dish Assy, MS, $\frac{3}{16}$ " Dish & $\frac{1}{4}$ " Blades, Extended Range	4 RH
NC-025006VLH	HD Spinner Dish Assy, SS, $\frac{3}{16}$ " Dish & $\frac{1}{4}$ " Blades, Extended Range	4 LH
NC-015006VLH	HD Spinner Dish Assy, MS, $\frac{3}{16}$ " Dish & $\frac{1}{4}$ " Blade, Extended Range	4 LH
24" DISHES ONLY		
NC-025006A	Std Spinner Dish, SS, 10 Gauge, Universal,	6
NC-015006A	Spinner Dish, MS, $\frac{3}{16}$ ", Universal	6
NC-025006Q	HD Spinner Dish, SS, $\frac{3}{16}$ " Universal	6
NC-025006W	HD Spinner Dish, SS, $\frac{3}{16}$ " Extended Range, Adjustable, Universal	4
NC-015006W	HD Spinner Dish, MS, $\frac{3}{16}$ " Extended Range, Adjustable, Universal	4
BLADES FOR 24" DISHES		
NC-025007KRH	Std Spinner Blades, SS, 10 Gauge, RH	6 RH
NC-015007KRH	Spinner Blade, MS, $\frac{3}{16}$ ", RH	6 RH
NC-025007KLH	Std Spinner Blade, SS, 10 Gauge, LH	6 LH
NC-015007KLH	Spinner Blade, MS, $\frac{3}{16}$ ", LH	6 LH
NC-025007NRH	HD Spinner Blade, SS, $\frac{1}{4}$ ", RH	6 RH
NC-015007NRH	HD Spinner Blade, MS, $\frac{1}{4}$ ", RH	6 RH
NC-025007NLH	HD Spinner Blade, SS, $\frac{1}{4}$ ", LH	6 LH
NC-015007NLH	HD Spinner Blade, MS, $\frac{1}{4}$ ", LH	6 LH
NC-025007WRH	Spinner Blade, SS, $\frac{1}{4}$ ", Extended Range, RH	4 RH
NC-025007WLH	Spinner Blade, SS, $\frac{1}{4}$ ", Extended Range, LH	4 LH
BN-SSH5161	Bolt to Mount $\frac{1}{4}$ " Blade onto HD Dish	
BN-SSH51634	Bolt to Mount 10 Gauge Blade onto Dish	
BN-SSH516	Nut to Mount ALL Blades	



QUAD GEAR BOX, 16" OR 24" CHAIN

Ref No.	Qty	Part No.	Description
Unit	1	GB-920355	PT - NC Quad Box
A	2	GB-882514	L & R Spinner Box - 1" Shaft
B	1	GB-000413	413 Box Complete

COMMONLY ORDERED WITH REF A (GB-882514)

1	KE-14112	1/4" Key
1	NC-015006H	Spinner Hub - 1"
4	GB-410076	Cap Screw
1	GB-390005	Gasket, White, 0.015
2	GB-350096	Gasket, Clear, 0.003



NC-015006J



NC-015006H

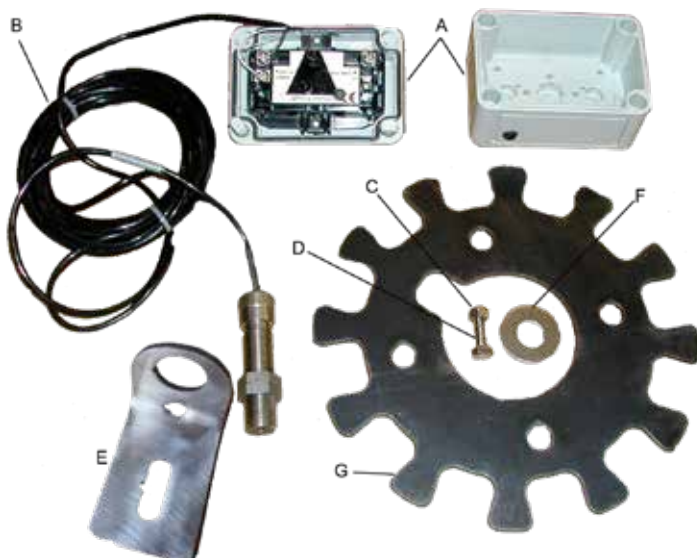
SPINNER HUBS

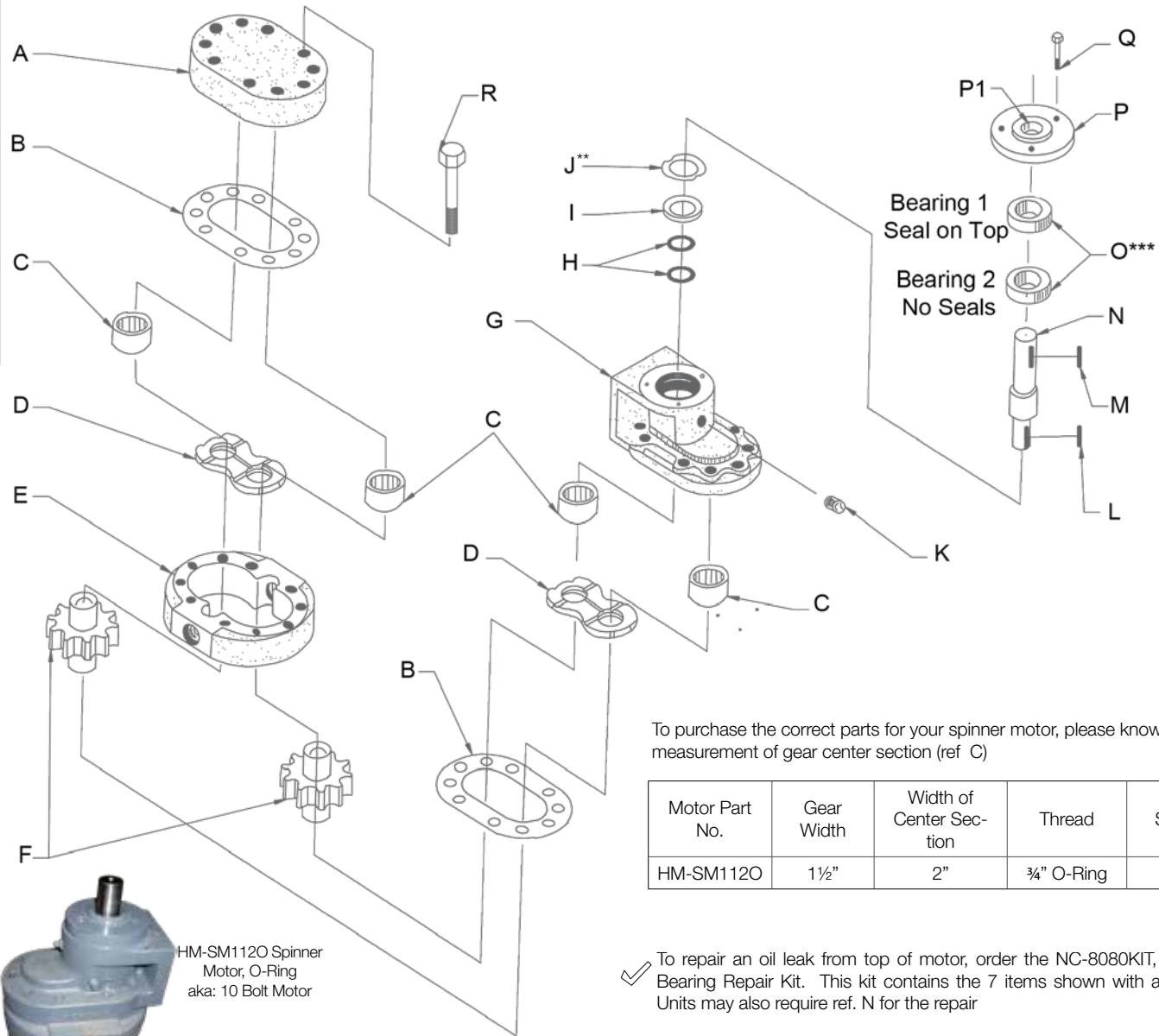
Qty.	Part No.	Description
2	NC-015006J	Spinner Hubs, w/ Seal, 1 1/4" Spinner Motors
2	NC-015006H	Spinner Hubs w/ Seal, 1", Spinner Motors
4	BN-SSHH516114	Bolt, Stainless, 5/16" x 1 1/4"
4	BN-SSHN516	Nut, Stainless, 5/16"
1	BN-SSSHSS381	Set Screw, Square Head 3/8" x 1"

SPINNER SPEED MONITOR

Ref No.	Qty	Part No.	Description
		NC-015103CKIT	NC Spinner Speed Monitor Kit, V3, includes ref A-G
A1	1	MS-SSMMONITORASSY	NC Spinner Speed Assembly, Monitor (V3) with 1-3 ON, Casing and Fittings
A2	1	MS-SSMMONITORCASE	NC Spinner Speed Case for Monitor V3 Only
A3	1	MS-SSMMONITORV3	NC Spinner Speed Monitor V3 Only with 1-3 ON
B	1	MS-SSMSENSOR	NC Spinner Speed Sensor Only
C	4	BN-SSHN516	Nut, 5/16" (Mount to Star)
D	4	BN-SSHH5161	Bolt, 5/16" x 1" (Mount to Star)
F	2	BN-SSFW58	Flat Washer, 5/8"
E	1	NC-025103B	NC Tach Bracket (Bent 90)
G	1	PM-025103A	NC Tach Star Counter
Bolts and Nuts to Mount on Spreader Sold Separately			
	4	BN-SSHH141	Bolt, 1/4" x 1" (Mount to Spreader)
	4	BN-SSFW14	Nut, 1/4" (Mount to Spreader)

Units before manufactured before 2013, require upgrade to V3 Monitor and Case





To purchase the correct parts for your spinner motor, please know the measurement of gear center section (ref C)

Motor Part No.	Gear Width	Width of Center Section	Thread	Shaft
HM-SM1120	1½"	2"	¾" O-Ring	1"

✓ To repair an oil leak from top of motor, order the NC-808OKIT, Double Bearing Repair Kit. This kit contains the 7 items shown with a check. Units may also require ref. N for the repair

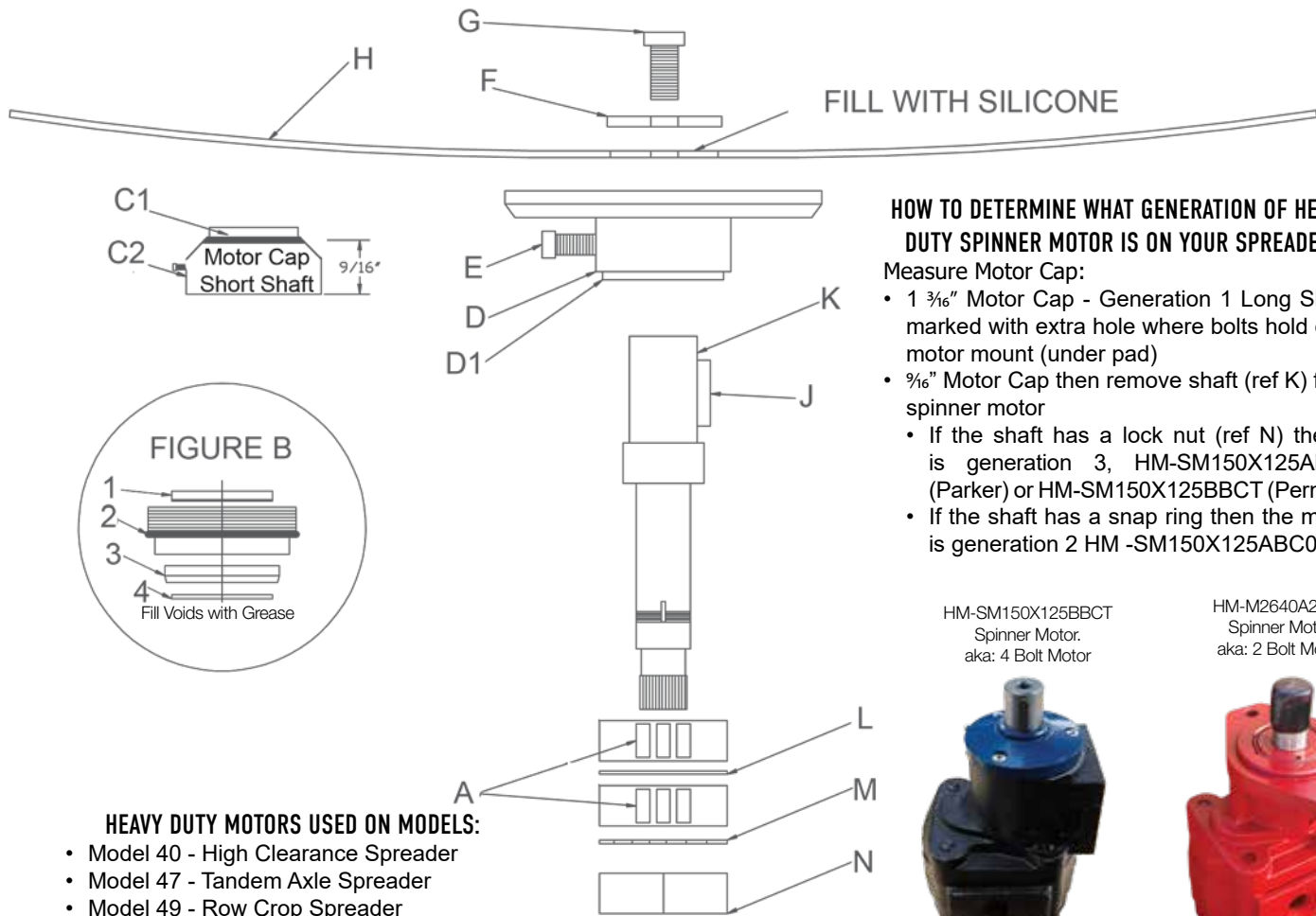
1" SHAFT SPINNER MOTORS FOR MODELS 41, 46, 47, 49, 54, 57

Ref	Qty 1½"	Part No.	Description
A	1	HM-J0592	Cover, End, Port
B	2	HM-A1014	Gasket
C	4	HM-J1032	Bearing, Gear
D	2	HM-J1058	Thrust Plate
E	1	HM-I05771533	Center Section, 1½" w/ O-Ring
F	1	HM-E1006M15	Gear Set, 1½" Center
G	1	HM-K0574NC	Cover, Shaft End
✓ H	2	HM-R300655*	O-Ring
✓ I	1	HM-X73371	Oil Seal
✓ J	1	HM-EA1669	Bearing, Spacer **

Ref	Qty 1½"	Part No.	Description
K	1	UJ-8000	Grease Fitting
✓ L	1	HM-X1020	Gear, Key
✓ M	1	HM-X1013	Shaft Key
N	1	HM-M113513	Shaft
✓ O	2	HM-X6940	Bearing, Shaft
P	1	NC-015092BG	Motor Cap w/ Seal
✓ P1	1	GB-300004	Seal, Motor Cap
Q	3	BN-SSFH1478	Screw, Flat Head, ¼" x ¾", 20UNC
R	10	BN-HH12414	Screw, Hex Head, ½" x 4 ¼", 13UNC
✓	1	NC-808OKIT	Double Bearing Repair Kit, Includes all ✓

* 2 slots to put O-Ring: on in top & bottom slot only
 ** Bearing Spacer is concave. Install concave side up.
 *** Ref O - Special installation. See note on drawing.





HOW TO DETERMINE WHAT GENERATION OF HEAVY DUTY SPINNER MOTOR IS ON YOUR SPREADER:

Measure Motor Cap:

- 1 3/16" Motor Cap - Generation 1 Long Shaft; marked with extra hole where bolts hold onto motor mount (under pad)
- 3/16" Motor Cap then remove shaft (ref K) from spinner motor
- If the shaft has a lock nut (ref N) then it is generation 3, HM-SM150X125ABCT (Parker) or HM-SM150X125BBCT (Permco)
- If the shaft has a snap ring then the motor is generation 2 HM -SM150X125ABC00

HM-SM150X125BBCT
Spinner Motor.
aka: 4 Bolt Motor

HM-M2640A2BF0
Spinner Motor
aka: 2 Bolt Motor

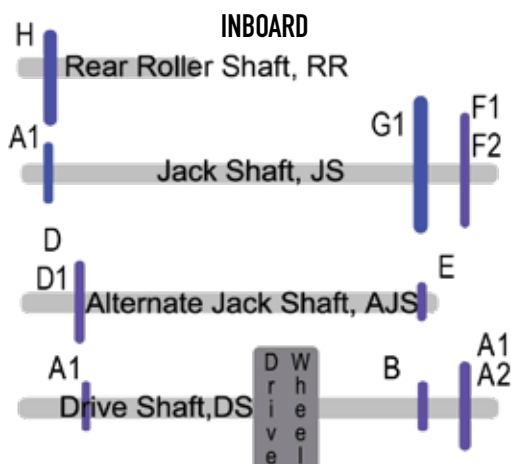


HD SPINNER MOTORS, 1.25" SHAFT WITH IMPROVED LOCK NUT - GENERATION 3

Ref	Qty	Part No.	Description	Ref	Qty	Part No.	Description
A	2	HM-W0157	Shaft Bearing for HD w/ Race 1 1/4"	F	1	PM-025005DY	Spinner Motor Washer, HD
B1	1	HM-3019301	Rubber Encased Seal, Outside	G	1	BN-SSH121	Bolt, SS 1/2" X 1"
B2	1	HM-3913384602	Spanner Nut, 1 1/4"	H	1	NC-025006A	Spinner Dish, NC Universal
B3	1	HM-OILSEALWSPRING	Oil Seal with Spring, 1 1/4"	J	1	HM-3911781141	Key .31" X .47" X 1.12"
B4	1	HM-K299547	O-Ring	K	1	HM-3031500511	Short Shaft for HD Motors, 1 1/4"
C1	1	GB-300020	Motor Cap Seal	L	1	HM-3913381007	Spacer
C2	1	NC-015092BO	Motor Cap for Short Shaft	M	1	HM-3913782289	Lock Washer
D	1	SE-17240	Seal, Spinner Hub (install flat up)	N	1	HM-3911451201	Lock Nut
D1	1	NC-015006J	Spinner Hub with Seal 1 1/4"	Entire Motor	1	HM-SM150X125BBCT	Spinner Motor, Heavy Duty, Permco Replaces Parker Motors
E	1	BN-SSSHSS381	Square Head Set Screw, SS 3/8" X 1"				

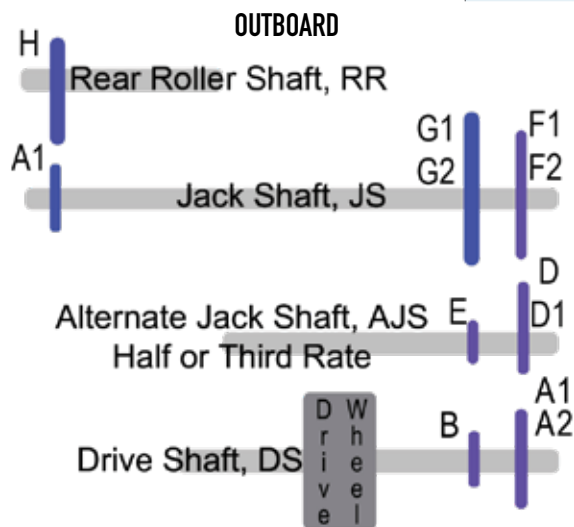
Note:

- HM-SM150X125BBCT (Permco) replace HM -SM150X125ABC00 and HM-SM150X125ABCT (Parker). All are short shaft motors with caps.
- Parts in Figure B and Ref C1, C2, D, D1, E, F, G are the same on both HM-SM150X125ABCT and HM-SM150X125BBCT
- Ref K and B2 will not interchange on HM-SM150X125ABC00
- Generation 1 Spinner Motors - 1 3/16" Motor Cap; Long Shaft; marked with extra hole where bolts hold onto motor mount (under pad).
- Generation 2 Spinner Motors - 3/16" Motor Cap; Short Shaft with snap ring.
- Generation 3 Spinner Motors (HM-SM150X125BBCT) - 3/16" Motor Cap; Short Shaft with lock nut.
- Generation 3 Spinner Motors (HM-M2640A2BF0) - 2 Bolt Up Side Down Motor requires a Universal Joint.
- Special fittings, including case drain, required.



Chain 1: A1 on JS to H on RR does not move

Medium Fertilizer Rate	Low Fertilizer Half Rate	Low Fertilizer Third Rate	High Fertilizer or Lime Rate
Chain 2: B on DS to G1 on JS	Chain 2: A1 on DS to D on AJS	Chain 2: A1 on DS to D1 on AJS	Chain 2: A1 on DS to F1 on JS
	Chain 3: E on AJS to G1 on JS	Chain 3: E on AJS to G1 on JS	Or
			Chain 2: A2 on DS to F2 on JS



Chain 1: A1 on JS to H on RR does not move

Medium Fertilizer Rate	Low Fertilizer Half Rate	Low Fertilizer Third Rate	High Fertilizer or Lime Rate
Chain 2: B on DS to G1 on JS	Chain 2: A1 on DS to D on AJS	Chain 2: A1 on DS to D1 on AJS	Chain 2: A1 on DS to F1 on JS
or	Chain 3: E on AJS to G1 on JS	Chain 3: E on AJS to G1 on JS	without reduction rate kit
Chain 2: B on DS to G2 to JS			Chain 2: A2 on DS to F2 on AJS

TO ENSURE PROPER SPROCKETS ARE ORDERED, PLEASE NOTE:

- See Technical tips at newtoncrouch.com; Serial Number when ordering.
- Drawings shown as if standing by tongue looking toward rear of spreader.
- Inboard sprocket: Models 49 Row Crop; (Model 41 & 46 different setup)
- Outboard sprocket: Models 47 Spreadit Series and 57
- Half or third rate is usually found with a 24" conveyor and reduces the rate by half (24 spkt) or third (36 spkt). Requires 3 chains.

SPROCKET FOR MODELS 41, 46, 47, 49, AND 57

Ref No.	Part No.	Description
SPROCKETS FOR MODELS 47, 49, AND 57		
A1	SP-60B12X114	60B Sprocket, 12 Tooth 1¼" Bore
A2*	SP-60B22X114	60B Sprocket, 22 Tooth 1¼" Bore, Lime
B	SP-60B12X114	60B Sprocket, 12 Tooth 1¼" Bore, Fertilizer
D1	SP-60B36X114	60B Sprocket, 36 Tooth 1¼" Bore, Third Rate
D	SP-60B24X114	60B Sprocket, 24 Tooth 1¼" Bore, Half Rate
E	SP-60B12X114	60B Sprocket, 12 Tooth 1¼" Bore
F1	SP-60B24X114	60B Sprocket, 24 Tooth 1¼" Bore
F2*	SP-60B44X114	60B Sprocket, 44 Tooth 1¼" Bore, Lime
G1	SP-60B54X114	60B Sprocket, 54 tooth 1¼" Bore, Fertilizer
G2*	SP-60B80X114	60B Sprocket, 80 Tooth, 1¼" Bore
H	SP-60B36X200	60B Sprocket, 36 Tooth, 2" Bore

RATE KITS

- Half or third rate is usually found with a 24" conveyor and reduces the rate by half (24 spkt) or third (36 spkt).
- * Half or third rate on outboard cannot have a 22 DS, 44 JS or 80 JS
- Half Rate Kit (12-24 sprockets) and Third Rate Kit (12-36 sprockets) contain: sprockets, 3 roller chains, connector link, shaft, bearings, nuts, & bolts.
- Roller chain required. Cut to length. Order in 10 ft lengths.

Part No.	Description
NC-015049CB	Half Rate Kit, 12-24 Sprockets
NC-015049EY	Third Rate Kit, 12-36 Sprockets
NC-015049DB	PB Bearing Spacer for Rate Kit (2 Required)

ROLLER CHAIN - SIZES 50, 60, 80

CA-HL**	Half Link, SS or Nickle
CA-RC**	Roller Chain, SS or Nickle, Available in 10 ft lengths
CA-CL**	Connector Link, SS or Nickle

** specify size (50, 60, 80) and material (Stainless or Nickle)

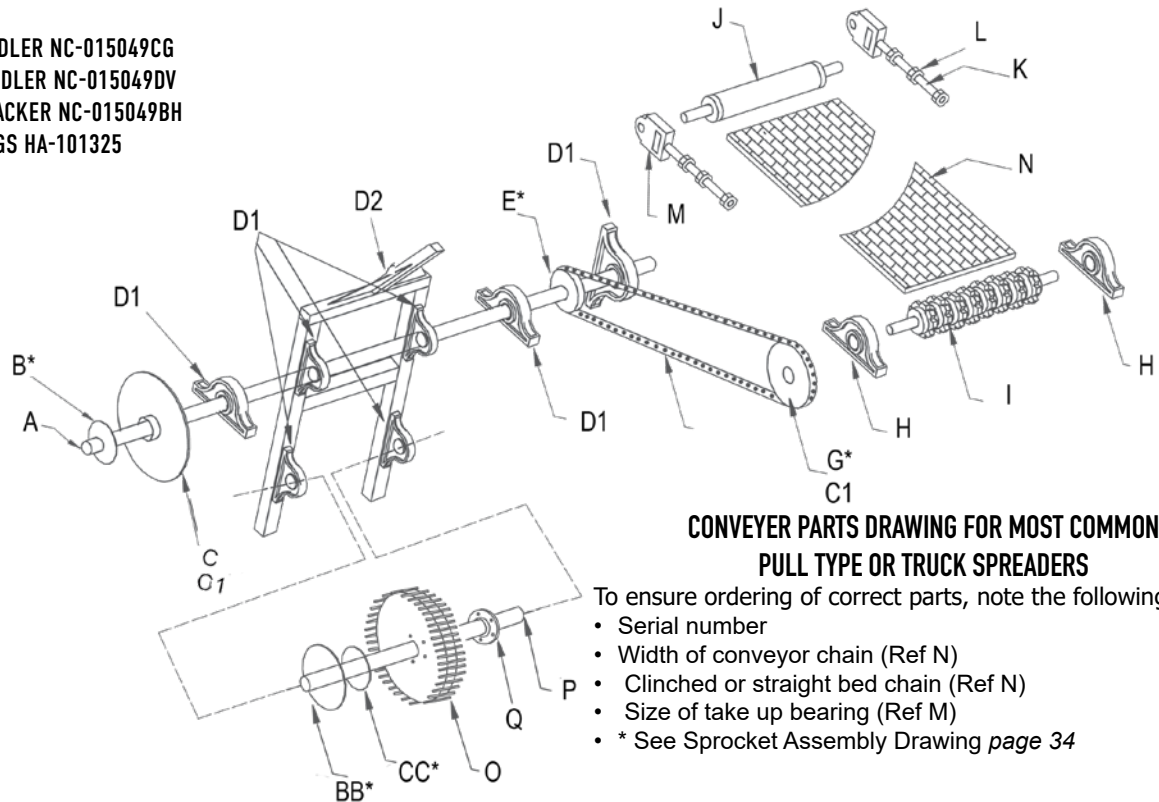
CHAIN IDLER PARTS

NC-015049CG	Chain Idler, Single Complete
NC-015049DV	Chain Idler, Double Complete
MS-P6364	Idler Rollers
SP-60B15X12	Idler Sprocket, 15 Tooth, ½" Bore

SCAN THIS QR CODE TO VISIT NC'S
YOUTUBE CHANNEL AND LEARN MORE
ABOUT SPROCKET RATIOS.



SINGLE IDLER NC-015049CG
DOUBLE IDLER NC-015049DV
IDLER BRACKER NC-015049BH
LUGS HA-101325



CONVEYER PARTS DRAWING FOR MOST COMMON PULL TYPE OR TRUCK SPREADERS

To ensure ordering of correct parts, note the following:

- Serial number
- Width of conveyor chain (Ref N)
- Clinched or straight bed chain (Ref N)
- Size of take up bearing (Ref M)
- * See Sprocket Assembly Drawing page 34

16" AND 24" CHAIN CONVEYOR PARTS FOR MODELS 41, 46, 47, 49, 54, AND 57

Ref	Qty 16"	Qty 24"	Part No.	Description	Ref	Qty 16"	Qty 24"	Part No.	Description
A	1	1	NC-015049U**	Jack Shaft, 1 1/4" x 36"	L	4	4	BN-SSAHN58	Nuts, SS, Acme Thread, 3/8"
A	1	1	NC-015092AH**	Jack Shaft, 1 1/4" x 40"	M	2	2	BR-TU112IMP ^o	Take Up Bearing, 1 1/2" (match FR)
A	1	1	NC-015092AI**	Jack Shaft, 1 1/4" x 45"	M	2	2	BR-TU100IMP ^o	Take Up Bearing, 1" (match FR)
C1 - on all spkts			KE-516112	Key, 5/16" x 1 1/2"	N	1	-	CA-CBCW16	Conveyor Chain, 16" Clinched
D1	3	3	BR-PB114 ^o	PB Bearing, 1 1/4" on Brackets	N	1	-	CA-BCW16	Conveyor Chain, 16" Straight
D1	4	4	BR-PB114 ^o	PB Bearing, 1 1/4" on H-Frame	N	-	1	CA-CBCW24	Conveyor Chain, 24" Clinched
D1	14	14	BN-SSHH122	Hex Head Bolt, 1/2" x 2", SS	N	-	1	CA-BC24	Conveyor Chain, 24" Straight
D1	14	14	BN-SSHN12	Hex Nut, 1/2", SS	N	-	1	CA-BCHD24	Conveyor Chain, HD 24" Straight, Reinforced
D1	14	14	BN-SSLW12	Lock Washer, 1/2", SS	-	1	-	CA-SP16	Splice Pin, 16"
D1	14	14	BN-SSFW12	Flat Washer, 1/2", SS	-	-	1	CA-SP24	Splice Pin, 24"
D2	1	1	NC-015049AZ	H Frame Assy Narrow	O	1	1	NC-015104G	Drive Wheel Assy, Single Paddle, Pull Type, 4.8 x 8
D2	1	1	NC-015049DA	H Frame Assy Universal	O	1	1	HA-101300	Bolts for Drive Wheel, Steel Wheel
D2	1	1	NC-015054A	H Frame Assy Truck w/ Top Link	O	1	1	WT-ASSY5X8X15LAMO	Laminated Tire, Pull Type, 4.8 x 8
F	10'	10'	CA-RC60SS	Roller Chain, SS, 60, Master & Half Link	O	5	5	HA-101325	Bolts for Laminated Air-filled Tire, 1 1/4"
H	2	-	BR-PB112 ^o	PB Bearing, 1 1/2" on RR Assy	O	1	1	WT-ASSY480X8B	Air Tire, Rubber Filled, Pull Type, 4.8 x 8
H	-	2	BR-PB200 ^o	PB Bearing, 2" on RR Assy	O	1	1	WT-ASSY205X8X1000	Air Tire, Truck, 20.5 x 8
H	4	4	BN-SSHH122	Hex Head Bolt, 1/2" x 2", SS	P	1	1	NC-015049AV	Drive Wheel Shaft, 1 1/4" x 20"
H	4	4	BN-SSHN12	Hex Nut, 1/2", SS	P	1	1	NC-015092AG	Drive Wheel Shaft, 1 1/4" x 24"
H	4	4	BN-SSLW12	Lock Washer, 1/2", SS	P	1	1	NC-015092BK	Drive Wheel Shaft, 1 1/4" x 27"
H	4	4	BN-SSFW12	Flat Washer, 1/2", SS	Q	1	1	CN-015049AY	Drive Wheel Hub, 1 1/4"
I or J			See page 29 for Roller Parts		Q	1	1	NC-015092BH	Clutch for Drive Wheel, Truck
K	2	2	NC-025005Q	Take Up Screw, 5/8" x 12"					

* See sprocket assembly drawing page 34

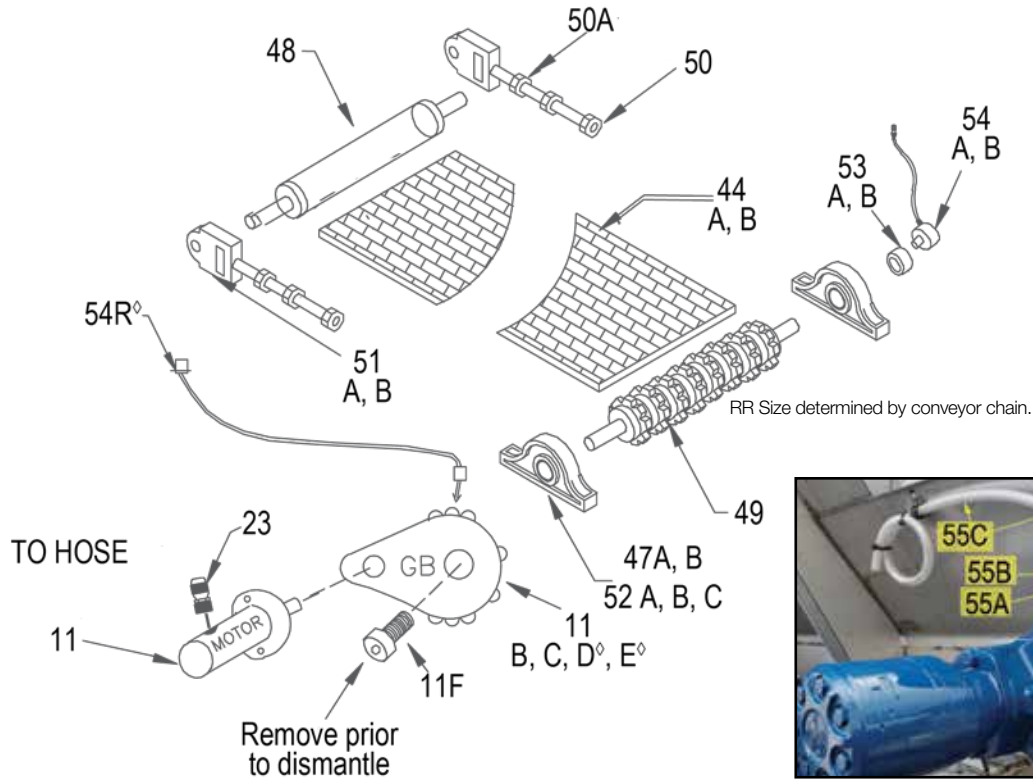
**Jack Shaft also offered in 1 1/2" - required change of bearings & sprockets



**NEWTON
CROUCH**

^o Offered in stainless steel.

^o Heavy Duty Bearings available but are not interchangeable. Bearings require specific shaft height.

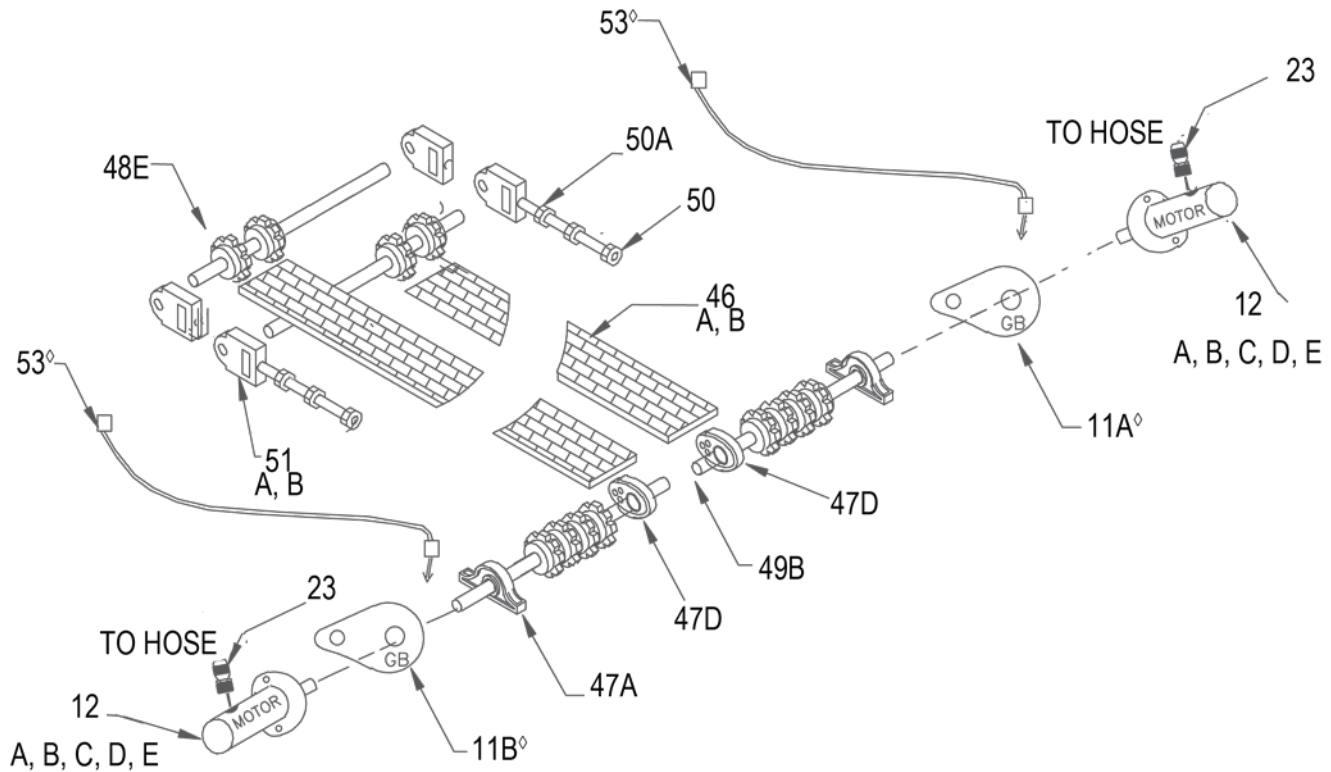


REAR PARTS FOR ALL HYDRAULIC WITH CONTROLLER, ALL SPREADER MODELS

Ref No	16"	24"	Part No.	Description	Ref No	16"	24"	Part No.	Description
11	1	1	HM-RE10 HM-RE10E	Hydraulic Motor, Parker, RE 10 Hydraulic Motor, Eaton, RE 10	48 and 49			See Roller Parts page 29	
11	1	1	HM-RE14 HM-RE14E	Hydraulic Motor, Parker, RE14 Hydraulic Motor, Eaton, RE14	50	2	2	NC-025005Q	Take Up Screw, ¾" x 12"
11	1	1	HM-RE18 HM-RE18E	Hydraulic Motor, Parker, RE18 Hydraulic Motor, Eaton, RE18	50A	2	2	BN-SSAHN58	Take Up Screw Nut, ¾"
11	1	1	HM-RE24 HM-RE24E	Hydraulic Motor, Parker, RE24 Hydraulic Motor, Eaton, RE24	51A	2	2	BR-TU112IMP**	Take Up Bearing, 1½"
11B	1	-	GB-301095S	Gear Box, 1½" LH, No Sensor	51B	2	2	BR-TU100IMP**	Take Up Bearing, 1"
11C	1	1	GB-301075S	Gear Box, 2" LH, No Sensor	52A	4	4	BN-SSHH122	Hex Head Bolt, ½" x 2"
11D [◊]	1	1	GB-301098S	Gear Box, 1½" LH, Sensor [◊]	52B	4	4	BN-SSHN12	Hex Nut, ½"
11E [◊]	1	1	GB-301091S	Gear Box, 2" LH, Sensor [◊]	52C	16	16	BN-SSFW12	Flat Washer, ½"
11F	1	1	BN-AHSH5161	Allen Head Screw, ⅝" x 1" (2" Shaft)	53A	1	1	NC-015005DNP	Rear Roller Adapter, 2" LH Slot Sensor
23	2	2	HH-848FSO1210	Fitting, Hydraulic, ¾ JIC x ⅜ O Ring	53B	1	1	NC-015005DVP	Rear Roller Adapter, 1½" LH Slot Sensor
44A	1	-	CA-BCW16	Conveyor Chain, 16" Straight	54A	1	1	RA-0630171443	Raven Slot Sensor, 25' Cable, NC Std
44A	1	-	CA-CBCW16	Conveyor Chain, 16" Clinched	54B	1	1	MD-1200009 MD-1200009A	Dickey John 360 Slot Senor, 25' Cable 360 Slot Sensor Adapter Cable
44B	-	1	CA-BC24	Conveyor Chain, 24" Straight		54R [◊]	1	1	MD-1605004KIT
44B	-	1	CA-BCHD24	Conveyor Chain, HD 24" Straight, Reinforced	Ref No. 54R [◊] Kit Includes			MD-4505114	Sensor Cable
44B	-	1	CA-CBCW24	Conveyor Chain, 24" Clinched				MD-1605000	Rate Sensor
47A	2	1	BR-PB112**	Pillow Block Bearing, 1½"				MD-5005007	MT Rate Sensor U-Cup Seal
47B	2	2	BR-PB200**	Pillow Block Bearing 2"				MD-6010000	Clamp, Loop, 304 SST
47B	2	2	BR-PB200HD	Heavy Duty Pillow Block Bearing, 2"	55A	1	1	TP-HB038	Hose Barb, ⅝"
					55B	1	1	CL-0600	Clamp, ⅝" Stainless Steel
					55C	1	1	HO-CT38BPVC	Hose, 3 Feet Needed

[◇] Ref 11D, 11E Gear Box Sensor requires MD-1605004KIT. (Ref No. 54R)

** Offered in Stainless Steel.



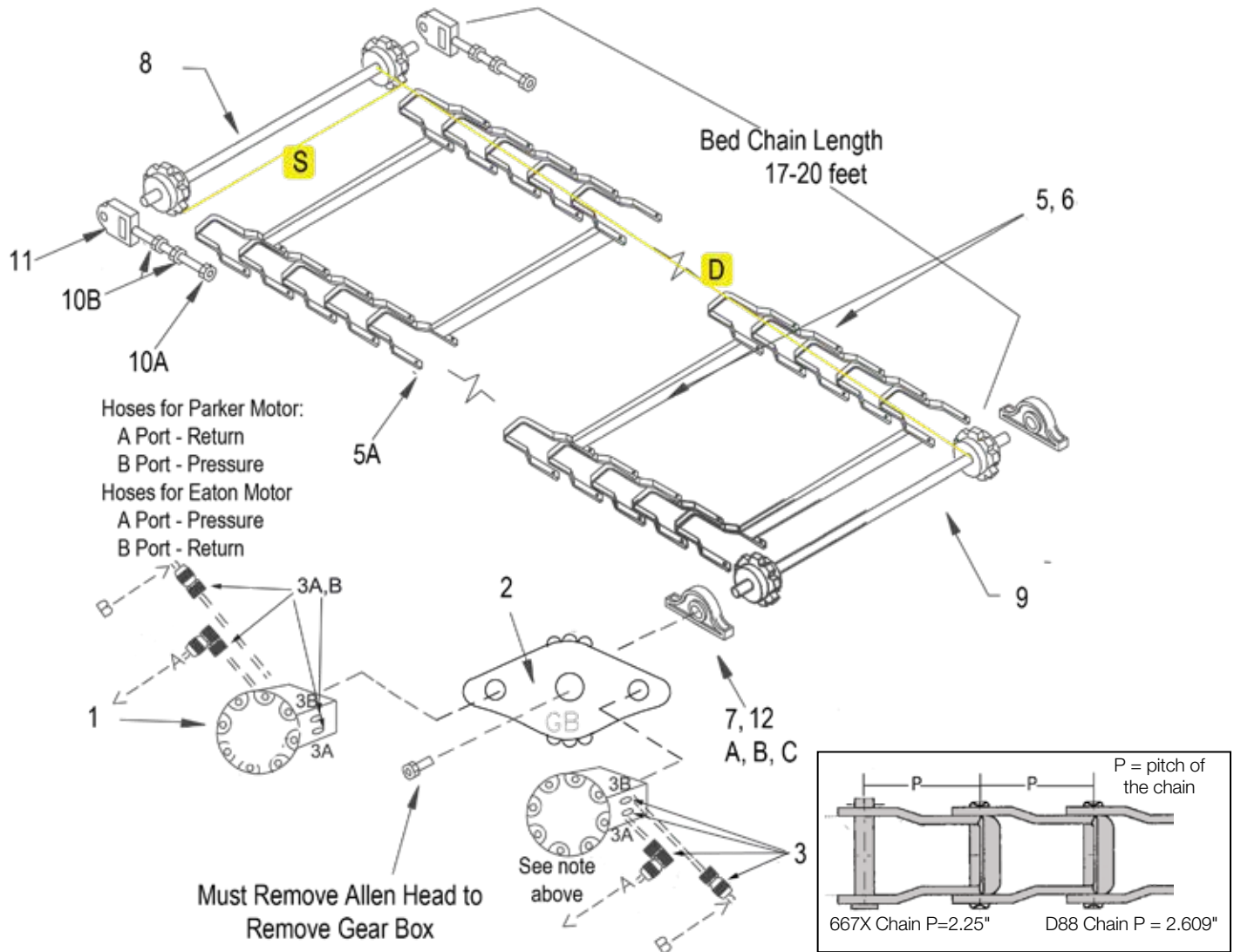
8" OR 12" SPLIT CHAIN CONVEYOR PARTS FOR MODELS 40, 41, 46, 47, 49, 54 & 57

Ref No.	Qty	Part No.	Description	Ref No.	Qty	Part No.	Description
11A [◊]	1	GB-301090S	Gear Box, 2" RH Sensor	47A	2	BR-PB200*	Bearing, Pillow Block 2 Bolt, 2"
11B [◊]	1	GB-301091S	Gear Box, 2" LH Sensor	47A	2	BR-PB200HD	Bearing, Heavy Duty Pillow Block, 2"
12A	2	HM-RE10 HM-RE10E	Hydraulic Motor, Parker, RE 10 Hydraulic Motor, Eaton, RE 10	47D	2	BR-3BF114P*	Bearing, 3 Bolt Flange, 1¼" Poly
12B	2	HM-RE12 HM-RE12E	Hydraulic Motor, Parker, RE12 Hydraulic Motor, Eaton, RE12	48E and 49B		See "Roller parts MODELS 40, 41, 46, 47, 49, 54, & 57" on page 29. Must order 2 front & 2 rear rollers for split chain conveyor. RR determined by conveyor chain.	
12C	2	HM-RE14 HM-RE14E	Hydraulic Motor, Parker, RE14 Hydraulic Motor, Eaton, RE14				
12D	2	HM-RE18 HM-RE18E	Hydraulic Motor, Parker, RE18 Hydraulic Motor, Eaton, RE18	50A	2	NC-025005Q	Take Up Screw, ¾ x 12"
12E	2	HM-RE24 HM-RE24E	Hydraulic Motor, Parker, RE24 Hydraulic Motor, Eaton, RE24	50B	4	BN-SSAHN58	Take Up Screw Nut, ¾
23	2	HH-848FSO1210	Fitting, ¾ JIC x ¾O Ring, Gear Box Single	51A	4	BR-TU112IMP*	Take Up Bearing 1½"
46A	2	CA-BC08	Conveyor Chain, 8" Straight, Specify Body Length	51B	4	BR-TU100IMP*	Take Up Bearing 1"
46B	2	CA-BC12	Conveyor Chain, 12" Straight, Specify Body Length	52A	14	BN-SSHH122	Hex Head Bolt, ½" x 2"
				52B	14	BN-SSHN12	Hex Nut, ½"
				52C	56	BN-SSFW12	Flat Washer, ½"
				53 [◊]	2	MD-1605004KIT	Mid-Tech Rate Sensor & Cable
				Ref No. 53 [◊] Kit Includes		MD-4505114	Sensor Cable
						MD-1605000	Rate Sensor
						MD-5005007	MT Rate Sensor U-Cup Seal
						MD-6010000	Clamp, Loop, 304 SST

◇ Ref 11 Gear Box Sensor requires MD-1605004KIT. (Ref No. 53)

* Offered in Stainless Steel

** Heavy Duty Bearings available but are not interchangeable. Bearings require specific shaft height.



CONVEYOR PARTS FOR MODELS 30 AND 31, DOUBLE MOTOR, ALL HYDRAULIC

Ref No.	Qty	Part No.	Description	Ref No.	Qty	Part No.	Description
1	2	HM-RE14 HM-RE14E	Hydraulic Motor, Parker, RE14 Hydraulic Motor, Eaton, RE14	5A	1	CA-D667XCPLERKIT0	Litter Chain, 667X Coupler Kit
2	2	GB-301033S	Tandem Gear Box, 2" LH	5A	1	CA-D88KXCPLERKIT0	Litter Chain, D88k Coupler Kit
3B	2	HH-848FSO1210 top	Fitting, Hydraulic, ¾ JIC x ¾ O Ring	6	34	PM-015031H	Bar Chain Slats
3A	2	HH-849FSO1210 bottom	Fitting, 90 Degree, Hydraulic, ¾ JIC x ¾ O Ring	7	2	BR-PB200HD	Pillow Block Bearing, 2" HD
5	1	CA-D667XEOL18FT CA-D88KEOL18FT	667X, Every Other Link, 10 Ft Sections D88K, Every Other Link, 10 Ft Sections	8	1	NC-015005CQ	Front Roller, 1½" x 41½", 2 Spkt
				9	1	NC-015005CP	Rear Roller, 2" x 45", 2 Spkt, Cold Rolled Shaft
				10A	2	NC-025005CM	Take Up Screw, 1" x 9"
				10B	4	BN-HN100	Take Up Screw Nut, Hex 1"
				11	2	BR-TU112IMP**	Take Up Bearing 1½"
				12A	4	BN-SSHH122	Hex Head Bolt, ½" x 2"
				12B	4	BN-SSHN12	Hex Nut, ½"
				12C	8	BN-SSFW12	Flat Washer, ½"

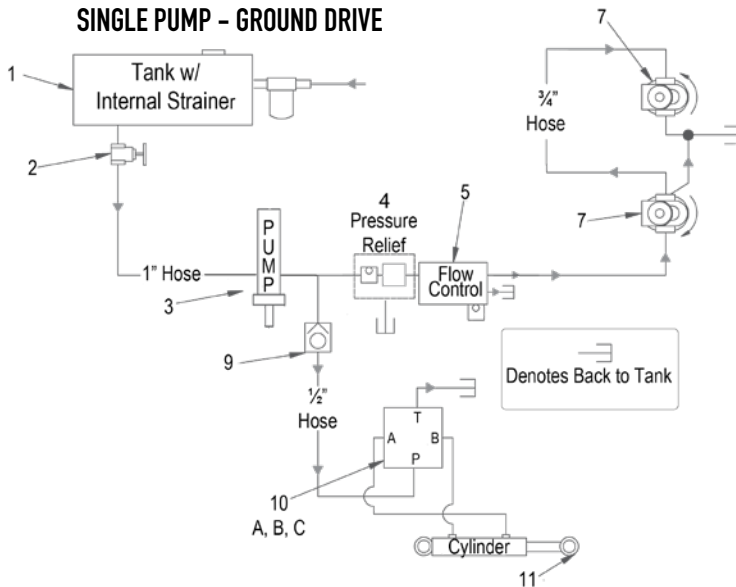
BAR CHAIN BUILT TO ORDER: (KNOW THE FOLLOWING)

- S. Distance CENTER to CENTER of Sprockets _____
- D. Distance center of REAR ROLLER to center of FRONT ROLLER _____
- Hull Length at Top of Spreader _____
- Bars Every Link _____
- Bars Every Other Link _____

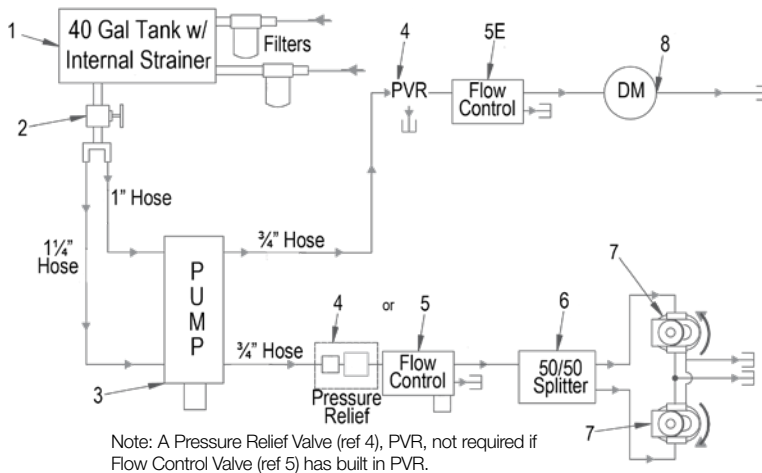
* Ensure size and manufacturer of hydraulic motors on unit. Cross reference checkout sheet in manual. Have serial number ready when ordering

** Offered in Stainless Steel

SINGLE PUMP - GROUND DRIVE



TANDEM PUMP - CONTROLLER



Note: A Pressure Relief Valve (ref 4), PVR, not required if Flow Control Valve (ref 5) has built in PVR.

Ref.	Qty	Part No.	Description
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OIL TANKS - SEE SCHEMATIC DRAWING PAGE 42 FOR FILTERS/FITTINGS

1	1	NC-015015P	20 Gallon, Mild Steel, Round
1	1	NC-025015P	20 Gallon, Stainless Steel, Round
1	1	NC-015015AW	40 Gallon, Mild Steel, Round
1	1	NC-025015AW	40 Gallon, Stainless Steel, Round

GATE VALVES

2	1	VL-GV114BR	Gate Valve, 1 1/4", Brass
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PUMPS - SEE PAGE 40

3	Pump Selection from facts to operate in desired RPM window		
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PRESSURE RELIEF

4	1	HV-OWJL752000	Pressure Relief, 2000 PSI, O Ring
4	1	HV-OWJL752500	Pressure Relief, 2500 PSI, O Ring
4	-	HV-WJL752000	Pressure Relief, 2000 PSI, Older Units
4	-	HV-WJL752500	Pressure Relief, 2500 PSI, Older Units

Ref.	Qty	Part No.	Description
FLOW CONTROL VALVE			
5	1	HV-FCB5112SAE	Flow Control Valve w/ PSI Relief & O-Ring Ports - Set Pressure
5	1	HV-DFCB5112S	Flow Control Valve w/ PSI Relief & O-Ring Ports - Set Pressure
5	1	HV-FC5134	Brand Flow Control w/o PRV*
5	1	HV-FC5134KNOB	Knob for Brand Flow Control Valve*
5E	1	MD-3502123	Valve, 15 GPM EXR IV
5E	1	MD-8792030	Valve, 30 GPM
-	-	MD-8792030KIT	O-Ring Repair Kit for MD-872030
5E	1	RA-0630171842	Valve, 10 GPM PWM
5E	1	RA-0630171843	Valve, 15 GPM PWM
5E	1	RA-0630171846	Valve, 30 GPM PWM

Single: choose 1 Part No. from Ref No. 5

Tandem: choose 1 Part No. from Ref No. 5 & 1 Part No. from Ref No. 5E

SPLITTERS - TANDEM PUMP ONLY

6	1	HV-OPD755050	Valve, Splitter 5/8", O Ring
6	1	HV-PD755050	Valve, Splitter 5/8"

SPINNER MOTORS (SCHEMATIC DRAWING PAGE 32 & PAGE 33)

7	1	HM-SM112O	Spinner Motor w/ O Ring, 1"
7	1	HM-SM150X125BBCT	HD Spinner Motor Permco, Short Shaft, 1 1/2" GW x 1 1/4" Shaft (Gen 3)
7	1	HM-SM150X125ABCT	HD Spinner Motor Parker, Short Shaft, 1 1/2" GW x 1 1/4" Shaft (Gen 3)
-	1	HH-38ORING-PLUG000	O Ring Plug, 3/8"
-	1	HH-1ORINGPLUG000	O Ring Plug, 1"

DRIVE MOTORS

8	1	HM-RE10**	RE 10 Hydraulic Motor
8	1	HM-RE12**	RE 12 Hydraulic Motor
8	1	HM-RE14**	RE 14 Hydraulic Motor
8	1	HM-RE18**	RE 18 Hydraulic Motor
8	1	HM-RE24**	RE 24 Hydraulic Motors

CHECK VALVES - SINGLE PUMP ONLY

9	1	HV-OLT5000N	Check Valve, 1/2", O Ring
9	1	HV-OLT7500N	Check Valve, 3/4", O Ring
9	1	HV-LT5000N	Check Valve, 1/2"
9	1	HV-LT7500N	Check Valve, 3/4"

WHEEL CONTROL - SINGLE PUMP ONLY

10	See Schematic Drawing on Page 37		
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HYDRAULIC CYLINDERS - SINGLE PUMP ONLY

11	1	HC-3020	Hydraulic Cylinder, 3" x 2"
11	1	SR-9120	Spring, 9 1/2", Boom & Cylinder

* PVR (Pressure Relief Valve) required on flow controls without relief.
Pressure dependant on motor type.

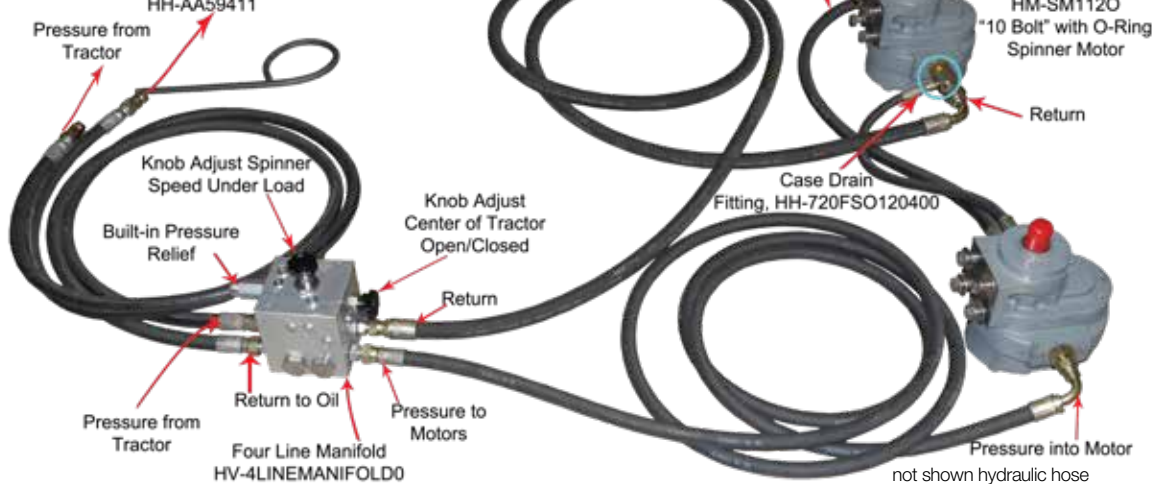
** Add E to end of part number to indicate Eaton Motor

HYDRAULIC PUMPS & CYLINDERS

- Self Contained Spreader uses a 540 PTO with special fittings
- A variety of pumps can be special ordered. Please call a NC representative for more information



**HYDRAULIC HOSE KIT SHOWN (HO-HOSEASSYKIT000)
MODELS 41, 47, 49, 57 WITH STANDARD HM-SM1120
SPINNER MOTORS (NOT INCLUDED)
*REQUIRES 720 O-RING TEE**



*720 O-Ring Tee (Required)



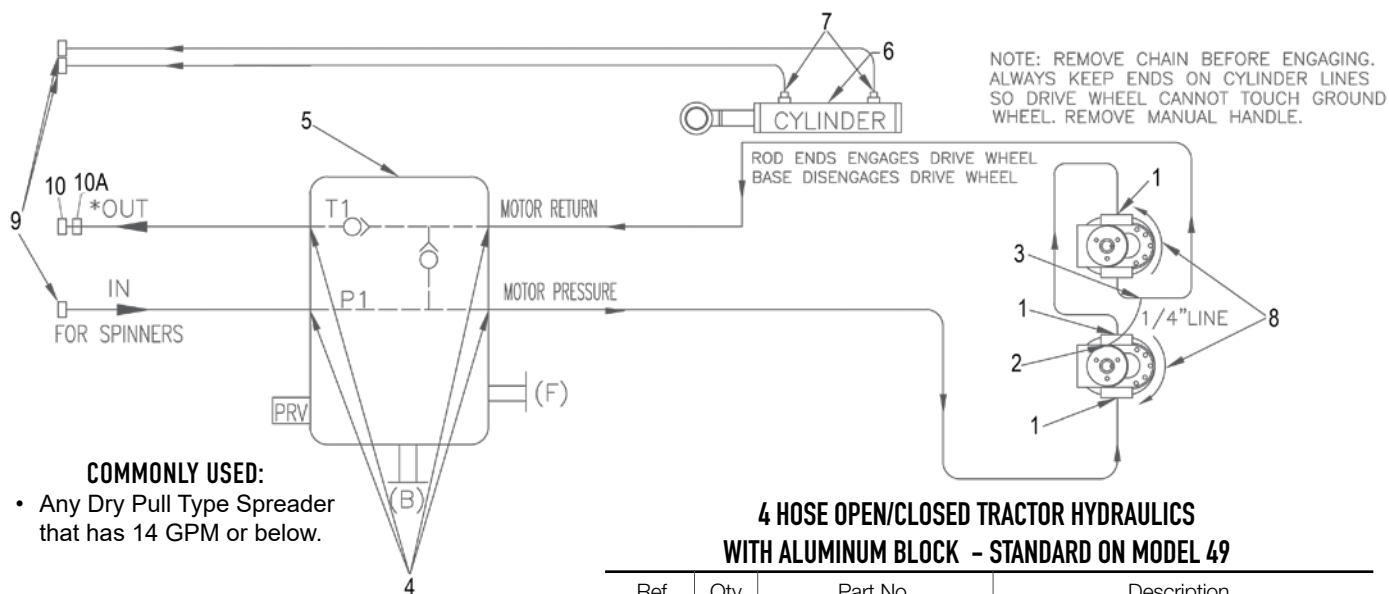
Hydraulic Quick Connect

HYDRAULIC HOSE KITS FOR ALL DRY SPREADERS

PART NO.	DESCRIPTION
HO-HOSEASSYKIT000	Hose Kit with O-Ring Return: 8 Hoses (Hydraulic Cylinder Hoses Not Shown) Fittings Included; Spreader Pull Type Models 41, 47, 49, 57
HO-HOSEASSYKIT40	Hose Kit with O-Ring Return: 8 Hoses (Hydraulic Cylinder Hoses Not Shown) Fittings Included; Model 40
HO-HOSEASSYKIT54	Hose Kit with O-Ring Return: 8 Hoses (Hydraulic Cylinder Hoses Not Shown) Fittings Included; Model 54
HH-720FSO12041200*	720 O Ring Tee with 3/4 SAE x 3/4 JIC x 1/4 JIC, 1 Required
HH-12HYDQCM	Hydraulic Quick Connect 1/2 Male NPT, 3 Required
HH-AA59411	Quick Connect Universal Fitting; Must Mount to O-Ring, Return, 1 Required
HH-640508080	Adapter from NPT to O-Ring, if needed
HV-4LINEMANIFOLD0	4 Line Manifold, 1 required

Various sizes of hydraulic hose available for individual purchase

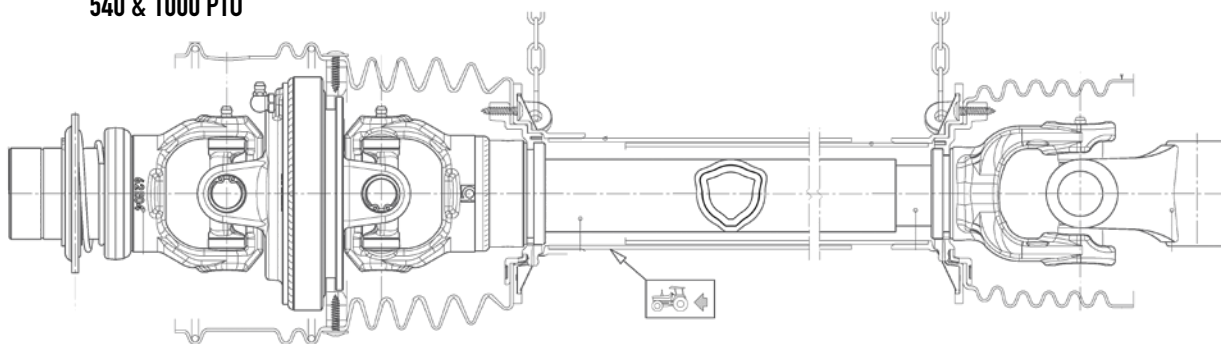
PART NO.	DESCRIPTION
PTO PUMP FOR SELF CONTAINED SPREADERS	
HM-PTO1A	540 Tractor PTO Pump; 1 3/8" 21, 540 RPM, Requires both fittings below and special flow control
HH-9SS12M012F012V	3/4" Swivel Adapter w/ Viton O Ring
HH-9SS16M016F016V	1" Swivel Adapter w/ Viton O Ring
TRUCK MOUNT SPREADER PTO PUMP W/ 13 SPLINE	
AP-TP200100OR	2" x 1" Pump with O-Ring
AP-TP134100OR	1 3/4" x 1" Pump with O-Ring
LITTER SPREADER PUMP W/ SOLID 1 1/4" SHAFT	
HM-P2500175X175XX	1 1/4" Shaft - 1 3/4" x 1 3/4" GW - P2500 Pump
CYLINDERS COMMONLY USED	
HC-2080	Hydraulic Cylinder, 8" x 2" Liquid Equipment
HC-3020	Hydraulic Cylinder, 3"x2" Dry Spreaders - Drive Wheel



4 HOSE OPEN/CLOSED TRACTOR HYDRAULICS WITH ALUMINUM BLOCK - STANDARD ON MODEL 49

Ref	Qty	Part No.	Description
1	3	HH-848FS00812	Hydraulic Fitting, 1/2" Male JIC, 3/4" O-Ring
2	1	HH-848FS0402	Hydraulic Fitting
3	1	HH-720FS012041200	720 O Ring Tee with 3/4 SAE x 3/4 JIC x 1/4 JIC
4	4	HH-848FS00808	Hydraulic Fittings, 1/2" Male JIC, 1/2" O-Ring
5	1	HV-4LINEMANIFOLD	Flow Control Block
6	1	HC-3020	Hydraulic Cylinder
7	2	HH-849FS0808	Hydraulic Fitting 90°, 1/2" Male JIC, 1/2"
8	2	HM-SM112O	1 1/2 Spinner Motors, O-Ring
9	3	HH-12HYDQCM	Quick Disconnect 1/2 Male NPT
10	1	HH-AA59411	JD Quick Disconnect, O-Ring
10A	1	HH-64050808	1/2" M x 1/2" FP STR (adapter for JD QD)

540 & 1000 PTO



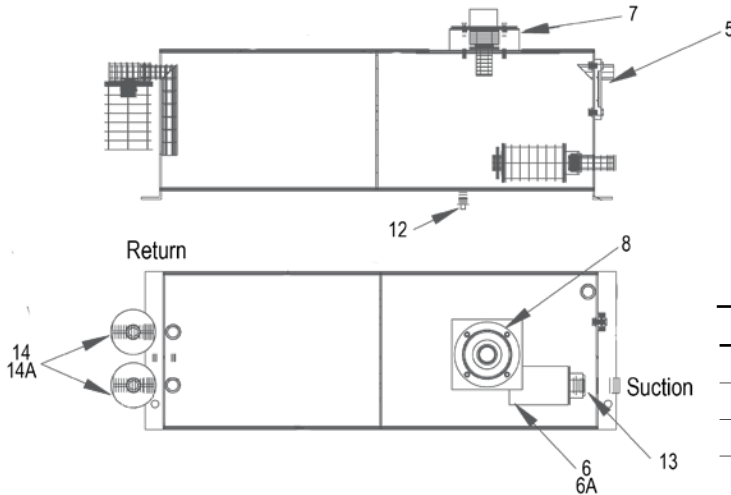
540 & 1000 PTO

Part No.	Description
GB-540PTOCAT4	PTO 540 Spline, 1 1/4" Round, .312" Keyed Yoke, Standard
GB-540PTOCAT4CV	PTO 540 Spline, 1 1/4" Round, .312" Keyed Yoke with CV
GB-1000PTOCAT4	PTO 540 Spline, 1 1/4" Round, .312" Keyed Yoke
GB-1000PTOCAT4CV	PTO 540 Spline, 1 1/4" Round, .312" Keyed Yoke with CV



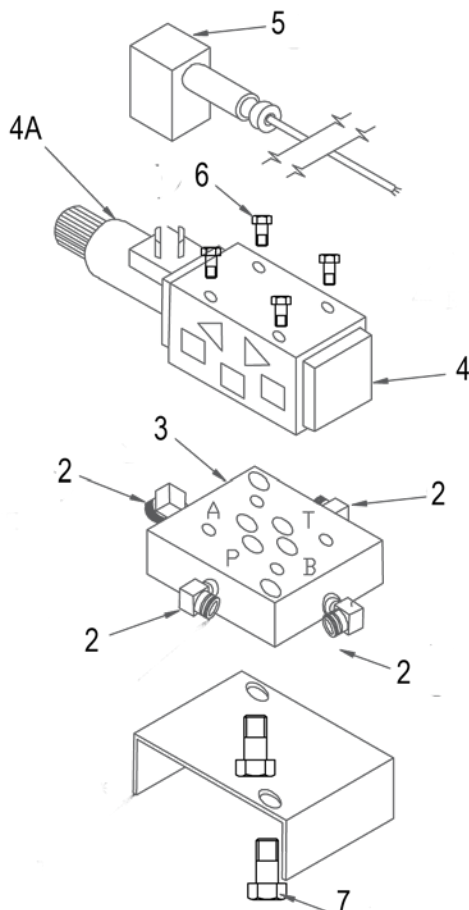
COMMONLY USED:

- Model 31 Litter Pull Type
- Other Pull Type Spreaders with PTO



End View with
Sight Gauge

40 Gallon Stainless
Oil Tank



OIL TANK NOTES:

- Model 30 use 40 Gallon Oil Tank
- Model 49 Drive Wheel use 20 Gallon Oil Tank
- Models 31 and 41 use special Oil Tank (call for info)
- 40 Gallon and 20 Gallon Oil Tank have same parts except for Ref. 14.
- Model 54 - single pump in series (20 gallon); single pump in tandem (40 gallon)
- 40 Gallon Oil Tank requires 2 external oil filters
- 20 Gallon Oil Tank requires 1 external filter

OIL TANK

Ref.	SS	Part No.	Description
5	1	HF-FL213	Sight Gauge
6	1	HF-FST2151TB	Internal Filter Complete
6A	1	HF-K23001	Internal Filter Only
7	1	HF-CFTA4080C80	Breather Cap Assy; Includes- Cap, Screen 2 Gas- kets, 4 SS Bolts w/ Lock Nuts
8	1	MS-CPA56	Cover Plate Assy
12	1	FB-SP34BK	3/4" Plug
13	1	FB-RB112114BK	1 1/4" x 1 1/2" Reducer Flush- ing
14	2	HF-FSP2121EF- NN000	External Filter Complete
14A	2	HF-K23018	External Filter Only
NC-015015P		20 Gallon, Mild Steel, Round	
NC-025015P		20 Gallon, Stainless Steel, Round	
NC-015015AW		40 Gallon, Mild Steel, Round	
NC-025015AW		40 Gallon, Stainless Steel, Round	

Mild steel oil tank and parts available.

DRIVE WHEEL CONTROL: ELECTRIC & MANUAL MODEL 54

Ref	Qty	Part No.	Description
NC Standard is now with a O Ring. Must order fittings to convert older models.			
-	1	HV-NASAG01A3ZD1E2	Electric Wheel Control Valve
-	1	HV-SPCEM4NR	Manual Wheel Control Valve
2	4	HH-849FSO0806	Hyd Fitting, 1/2" MJIC X 3/8" Moring
2A*	1	HV-OLT5000N	Check Valve, 1/2", O-Ring
3	1	HV-OADO3SPS6P	Subplate, Vickers O-Ring
4	1	HV-NASAG01A3ZD1E2	Electric Wheel Control Valve
4A	1	HV-CK186027430120	Coil for Elec Wheel Control Valve
-	1	HV-COILNUT	Coil Nut, Replacement
5	1	HV-MSUD24908	Connector with 5 m Cord**
6	4	BN-SHC1024X114000	1 9/16" x 1 1/4" Bolt; Connect Ref No. 3 & 4
7	2	BN-SSH1434	1/4" x 3/4" Bolt; Connect Ref No. 3 & Catwalk

* Requires check valve in pressure line. 2A at the tee from pump connected by hose with female JIC fittings (not shown on diagram)

**Blue wire is hot, brown is ground. All other wires will be clipped.



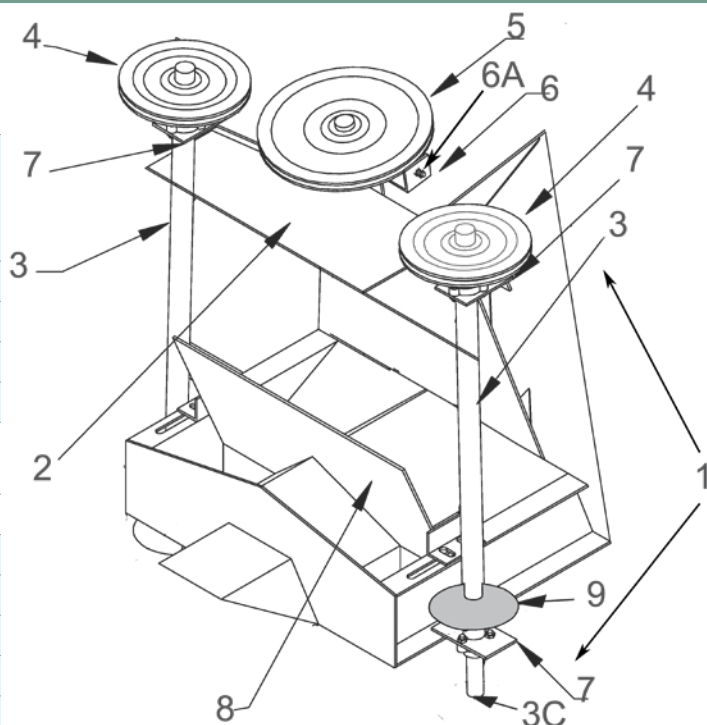
PLT PARTS FOR PULL TYPE

Ref No.	Qty	Part No.	Description	Ref No.	Qty	Part No.	Description
1	1	WT-ASSY20581005C	Air Tire Assembly	17	2	UJ-2205002205000	Universal, 1" x 1 1/4"
2	1	CN-015049AY	Drive Wheel Hub, 1 1/4"	18	2	HM-M2640A2BFO	Spinner Motor, HD, O-Ring Ports, 2 BLT Flange
3	8	BR-PB114	1 1/4" Pillow Block Bearing	19	1	NC-025010T	Gate Handle Extension
4	1	NC-015092BK	Drive Wheel Shaft, 1 1/4" x 27"	20	1	JA-SSB-B100002801A	Gate Handle Extension Universal
5	1	NC-015049AU	Jack Shaft, 1 1/4" x 36"	21	1	JA-620198	Gate Jack
6	1	SP-60B44X114	60B Sprocket, 44 tooth, 1 1/4" Bore	22	1	NC-025008AP	Chute Screw with Bearing, SS
7	1	SP-60B36X200	60B Sprocket, 36 Tooth, 2" Bore	23	1	CN-025008AWA	Chute Coupler with Grease Fitting, SS
8	1	SP-60B12X114	60B Sprocket, 22 Tooth, 1 1/4" Bore	24A	1	TR-SRTSTSLP90120	SRT STS TARP KIT 90" X 120"
9	1	SP-60B22X114	60B Sprocket, 22 Tooth, 1 1/4" Bore	24B	1	TR-SRTSTSTP90120	SRT STS TARP 90" X 120"
10	2	SP-60B15X12	60B Idler Sprocket, 15 tooth, 1/2" Bearing	25	1	LW-1492161	Light Bar, Spot-Flood Combo, 2RS 24 LED, Clear
11	10'	CA-RC60SS	Roller Chain, 10'	26	2	LW-ZV417KR2	Light DOT
12A	6	NC-025007ABLH	11 1/4" Spinner Blade, SS, 1/4" Top Angle, LH	27	2	LW-5627511	3/4" Red Marker, Red with Grommet & Plug
12B	6	NC-025007ABRH	11 1/4" Spinner Blade, SS, 1/4" Top Angle, RH	28	1	NC-015005EN	Rear Roller Assembly, 24" 2" X 36", HD Chain 13 Sprocket
13	2	PM-025006S NC-025006S	30" Flat Spinner Dish, SS, 1/4" Universal 30" Bent Spinner Dish, SS, 1/4" Universal	29	2	BR-PB200	Bearing, 2" Pillow Block
14	2	NC-015092BJ	Spinner Shaft, 1 1/4" x 31" INV MTR	30	1	CA-BCHD2423	SS, Welded, 24" x 23' Bed Chain, HD
15	2	PP-PVC114	PVC 1 1/4" SCH 40 Pipe				
16	2	NC-015006J	Spinner Hubs without Seal, 1 1/4"				

CHUTE ASSEMBLY, MODEL 48 NC SERIES

CHUTE ASSEMBLY, MODEL 48

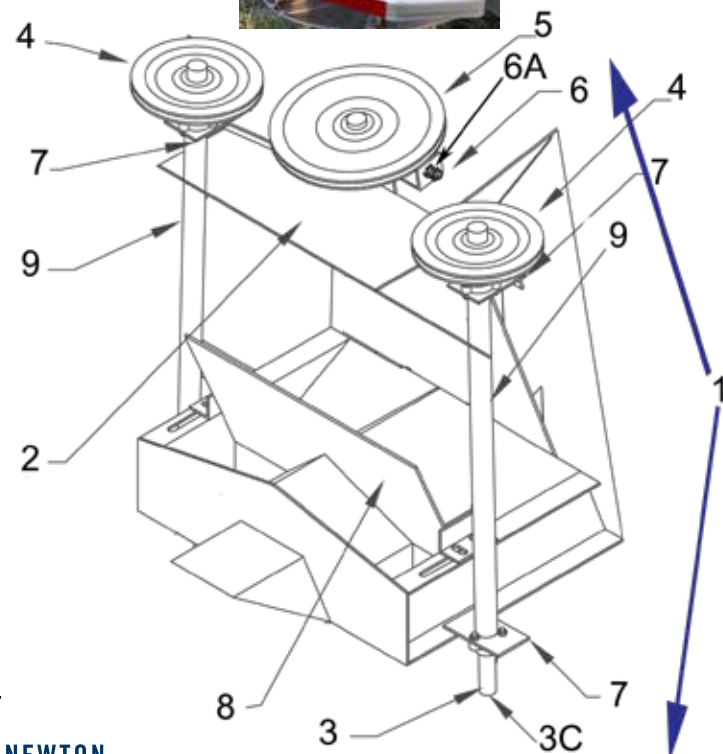
Ref No	Qty	Part No.	Description
1	1	NC-025008AM NC-025008BZ	Chute Assembly, Dual Spinners Chute Assembly, Single Spinner Both Assemblies Include: Ref 2,3,6,7,8,9 (pulleys not included)
2	1	NC-025079H	Upper Bearing Mounting Plate
3A	2	NC-015092P	Spinner Shafts
3B	2	PP-PVC100	PVC for Spinner Shafts
3C	1	KE-14112	Key, 1/4" x 1 1/2"
4	2	PU-DB965010**	Pulley, Single Groove 6", 1" Bore 540 RPM or 1000 RPM
5	1	PU-BV110801**	Idler Pulley, 6 1/2" x 3/8" Bore
6	1	NC-025077H	Belt Guide Assembly
6A	1	NC-025008CD	Belt Tension Adjustment, 3/8" Rod
7	4	BR-3BF100	Flange Bearing 1", 3 Bolt
8	1	NC-025008AA	Chute Material Deflector
9	2	SE-013713593	Clipper Oil Seal, 1 3/8"
		BT-BB122	Belt for Dual Spinners, 540
		BT-BB116	Belt for Dual Spinners, 1000
		BT-BB111	Belt for Single Spinners



PICTURE SHOWS
MODEL NC5000
CHUTE ASSEMBLY WITH
STAINLESS ENCLOSURES

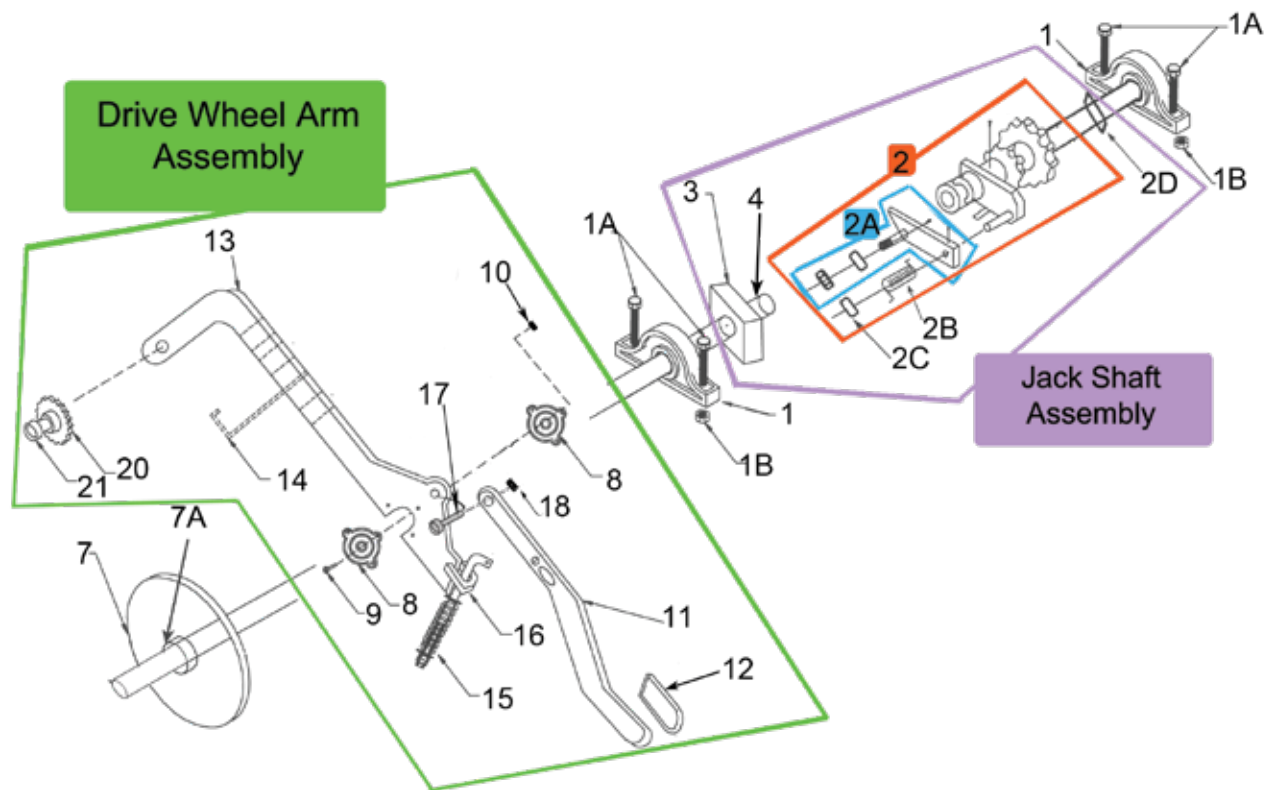
CHUTE ASSEMBLY WITH STAINLESS ENCLOSURES MODEL 48

Ref No	Qty	Part No.	Description
1	1	NC-025008AMSS	Chute Assembly Parts: Includes Ref 2,3,6,7,8,9 Pulleys not included
2	1	NC-025079T	Upper Bearing Mounting Plate
3	2	NC-015092P	Spinner Shafts
3C	1	KE-14112	Key, 1/4" x 1 1/2"
4	2	PUDB96501**	Pulley, Single Groove 6" x 1" Bore Not in Assembly
5	1	PU-BV110801**	Idler Pulley, 6 1/2" x 3/8" Bore Not in Assembly
6	1	NC-025077H	Belt Guide
6A	1	NC-025008CD	Belt Tension Adjustment, 3/8" Rod
7	4	BR-SS3BF100 BR-3BF100	3 Bolt Flange Bearing, 1" SS 3 Bolt Flange Bearing, 1"
8	1	NC-025008AA	Chute Material Deflector
9*	2	NC-025079S	Spinner Shaft Enclosures w/o Bearings
		BT-BB122	Belt for Dual Spinners, 540
		BT-BB116	Belt for Dual Spinners, 1000
		BT-BB111	Belt for Single Spinners



**NC uses solid pulleys. Riveted pulleys not recommended.

JACK SHAFT ASSEMBLY, MODEL 48 NC SERIES



Ref.	Qty	Part No.	Description
1	1	BR-PB100IMP	Pillow Block Bearing, 1"
1A	4	BN-SSHH38112	Bolt, $\frac{3}{8}$ " x 1 $\frac{1}{2}$ "
1B	4	BN-SSLN38	Lock Nut, $\frac{3}{8}$ "
	1	NC-015081F	Jack Shaft Assembly Regular or Wide Track Includes Ref 2A,2B,2C,2D,3,4
	1	NC-015081G	Jack Shaft Assembly Narrow Track Includes Ref 2A,2B,2C,2D,3,4
2	1	NC-015081H	NC Series Cluster Assembly Includes Ref 2A,2B,2C
2A	1	NC-015081A	Engage Finger Assembly w/ Roller Bushing & Grease Fitting
2B	1	SR-9287K97M	$\frac{1}{2}$ " Torsion Spring, Modified Cut & Bent
2C	1	CL-500M	$\frac{1}{2}$ " Set Collar Modified $\frac{1}{8}$ " Hole
2D	1	NC-015092D	Bushing, MS, 1 $\frac{1}{4}$ " x $\frac{1}{4}$ " Wide
3	1	NC-015081A	NC Series Ratchet
4	1	NC-015092A	Ground Drive Jack Shaft, Narrow
4	1	NC-015092M	Ground Drive Jack Shaft, 72" Wide
7	1	SP-50B54X100	Sprocket, 54 Tooth
7A	1	KE-14112	Key

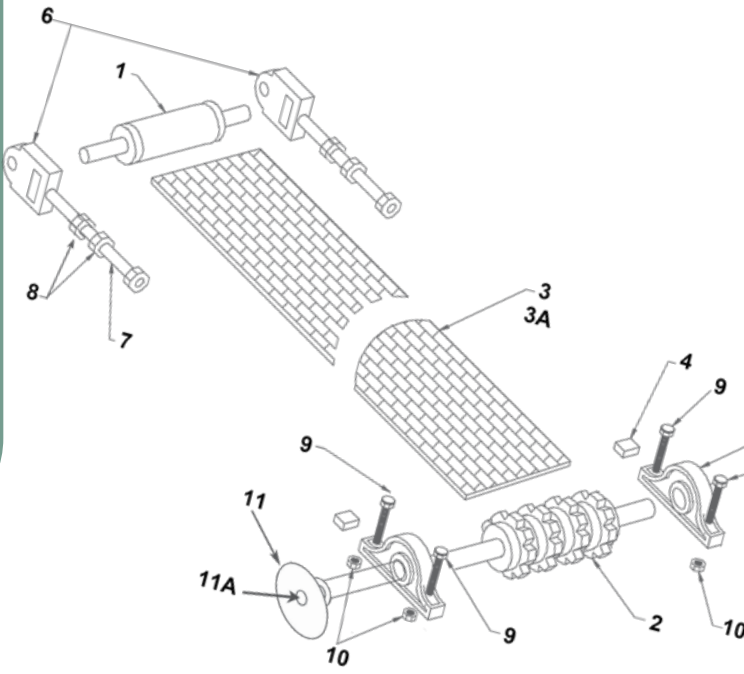
NOTE:

- Assemblies are commonly ordered parts grouped together. These parts often need to be replaced simultaneously.
- Even though the jack shaft is show within all colored boxes, it is only purchased individually (ref 4) or through the Jack Shaft Assembly
- Pillow Block Bearing is not included in any assembly.

Ref.	Qty	Part No.	Description
All Parts Within Green box	1	NC-015080AC	Drive Wheel Arm Assembly NC1500 & NC2000 Includes Ref 8-21
	1	NC-015080AB	Drive Wheel Arm Assembly NC5000 Includes Ref 8-21
	1	NC-015080AS	Drive Wheel Arm Assembly NC6000, NC8000 Includes Ref 8-21
8	2	BR-3BF100	3 Bolt Flange Bearing, 1"
9	3	BN-SSHH516134	SS, Bolt, $\frac{5}{16}$ " x 1 $\frac{3}{4}$ "
10	3	BN-SSLN516	SS, Lock Nut, $\frac{5}{16}$ "
11	1	NC-025080Q	Handle Drive
12	1	FP-250HANDLE- COVER	Handle Cover
13	1	NC-015080P	Drive Wheel Arm (NC1500, NC2000)
13	1	NC-015080A	Drive Wheel Arm (NC5000)
13	1	NC-015080AR	Drive Wheel Arm (NC6000, NC8000)
14	1	NC-025080V	Chain Support
15	1	NC-025080AJ	Engagement Arm Spring Tension Bolt
16	1	PM-015080F	Drive Wheel Arm Spring Plate
17	1	BN-SSHH342	SS, Bolt, $\frac{3}{4}$ " x 2"
18	1	BN-SSLN34	SS, Lock Nut, $\frac{3}{4}$ "
20	1	SP-50B17X58	Sprocket, 17 Tooth x $\frac{5}{8}$ " Bore
21	1	BN-HH582UNF	Bolt, $\frac{5}{8}$ " x 2"

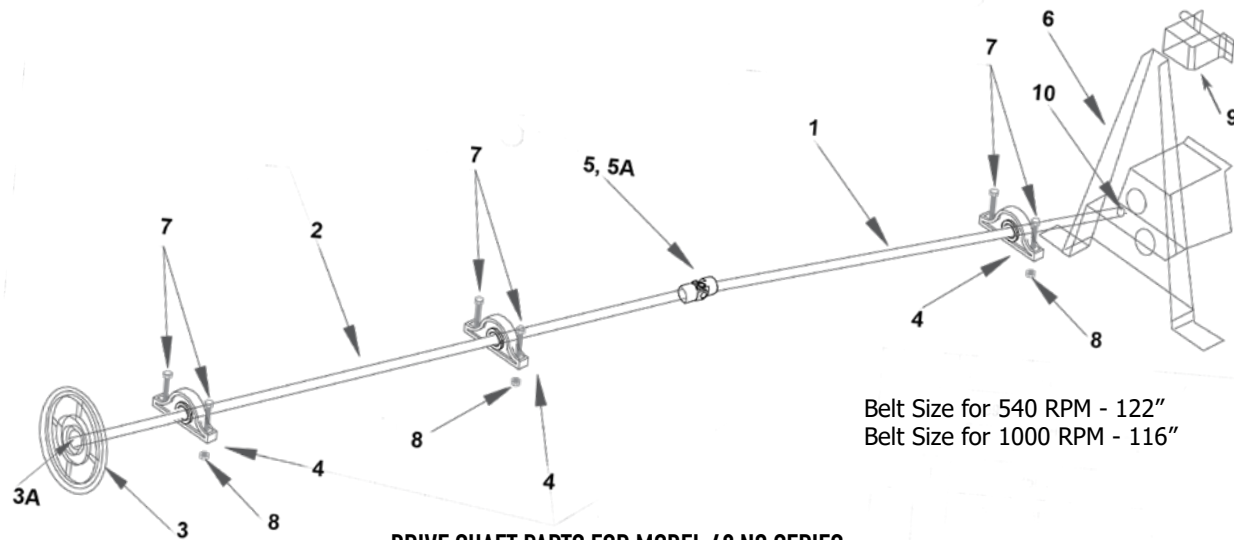
CONVEYOR PARTS FOR MODEL 48 NC SERIES

Ref No.	Qty	Part No.	Description
1	1	CN-015005AB	Front Roller, 1" x 12, No Spkt
2	1	CN-015005AC	Rear Roller, 1" x 14½", 4 Spkt
-	1	PM-025005CT	Rear Roller Cover Plate
3		CA-BC07	Bed Chain, 7" x 14' NC1500, NC 2000
3		CA-BC07	Bed Chain 7"x 16', NC5000
3		CA-BC07	Bed Chain, 7"x 20' NC6000, NC8000
3A	-	CA-SP07	Splice Pin, 7"
4	2	KE-516112	Bearing Stops, ⅝" x 1 ½"
5	2	BR-PB100IMP	Bearing 1", Pillow Block
6	2	BR-TU100IMP	Bearing 1", Take Up
7	2	NC-025005Q	Screw, Take Up
8	4	BN-SSAHN58	Acme Nut, SS, ⅜"
9	4	BN-SSHH38112	Bolt, ⅜" x 1 ½"/"
10	4	BN-SSLN38	Lock Nut, ⅜"
11	1	SP-205030X2050400	Transmission Sprocket, 40 & 30, 1" Bore
11A	1	KE-SK042112	Key, ⅝" x ¼"



MODEL 48 NC SERIES COMMONLY ORDERED PARTS

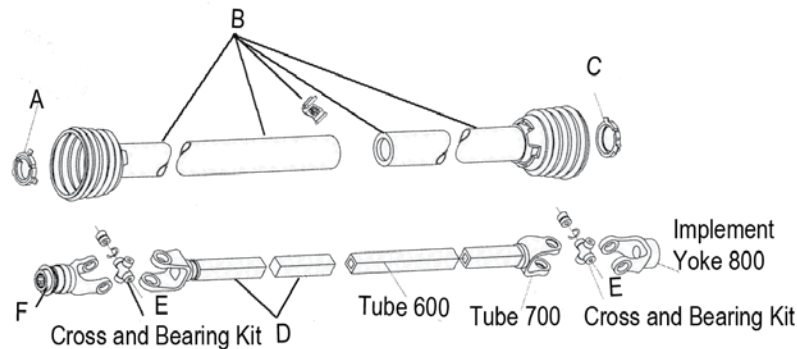
Part No.	Description	Part No.	Description	Part No.	Description
NC-025077K	Belt Guard Assembly	CA-HL50SS	Offset Link, 50, SS	SPINNER DISHES AND BLADES	
NC-025010L	Gate Handle	CA-RCA2050XSS	Roller Chain, A2050, SS	NC-025006NRH	Spinner Dish Assy, SS, 10 Ga Dish & Blades, RH
SM-GS148	Gate Scale	CA-CLA2050SS	Connector Link, A2050, SS	NC-025006NLH	Spinner Dish, Assy, SS, 10 Ga Dish & Blades, LH
NC-025010AF	Gate Bracket Assy w/ Brackets & Gate	NC-015006H	Spinner Hubs, 1", Belt, NC Series	NC-025006MLH	Spinner Dish Assy, SS, 10 Gauge Dish & Blades, Single Spinner
NC-025010KLH	Gate Slide, Left Side	NC-025022M	Baffle Plate Assembly (NC Series)	NC-025006CRH	Spinner Dish Only, SS, 10 Ga, RH
NC-025010KRH	Gate Slide, Right Side	NC-025022K	Bumper, Regular Track	NC-025006CLH	Spinner Dish Only, SS, 10 Ga, LH
UJ-3930103930	Std Universal for Drive Shaft, 1"R x 1"R	NC-025022J	Bumper, Narrow Track	NC-025007KRH	Spinner Blade, SS, 10 Ga, RH
UJ-3930101230	Std Universal for Drive Shaft, 1"R x 1¼"R, ⅝"	NC-025032I	Chain Guard	NC-025007KLH	Spinner Blade, SS, 10 Ga, LH
MS-WOODROLL-ER	2" x 3 ½", Wood Tension Block	NC-025032D	Chain Guard, Narrow Track	BN-SSHH51634	Bolt, SS, ⅝" x ¾", 2 per Blade Needed
NC-025010S	Wing Nut, Stainless	MS-4590	Slow Moving Vehicle Placard	BN-SSHN516	Nut, SS, ⅝", 2 per Blade Needed
BN-SSCB38412	Carriage Bolt, SS ⅝" x 4 ½"	TR-92X96FIT	Tarp for NC5000		
BN-SSLN38	Locknut, ⅜" -16 UNC SS	TR-92X120FIT	Tarp for NC6000 or NC8000		
BN-SSFW12	Flat Washer, ½", SS	MS-BUNGEECORD	Bungee Cord for Tarp		
SP-50B54X100	Sprocket, 54 Tooth 1" Bore	NC-025082H	Inverted "V" Assy, NC5000		
CA-RC50SS	Roller Chain, 10' Roll, 50, SS	NC-025082I	Inverted "V" Assy, NC6000 & NC8000		
CA-CL50SS	Connector Link, 50, SS				



Belt Size for 540 RPM - 122"
Belt Size for 1000 RPM - 116"

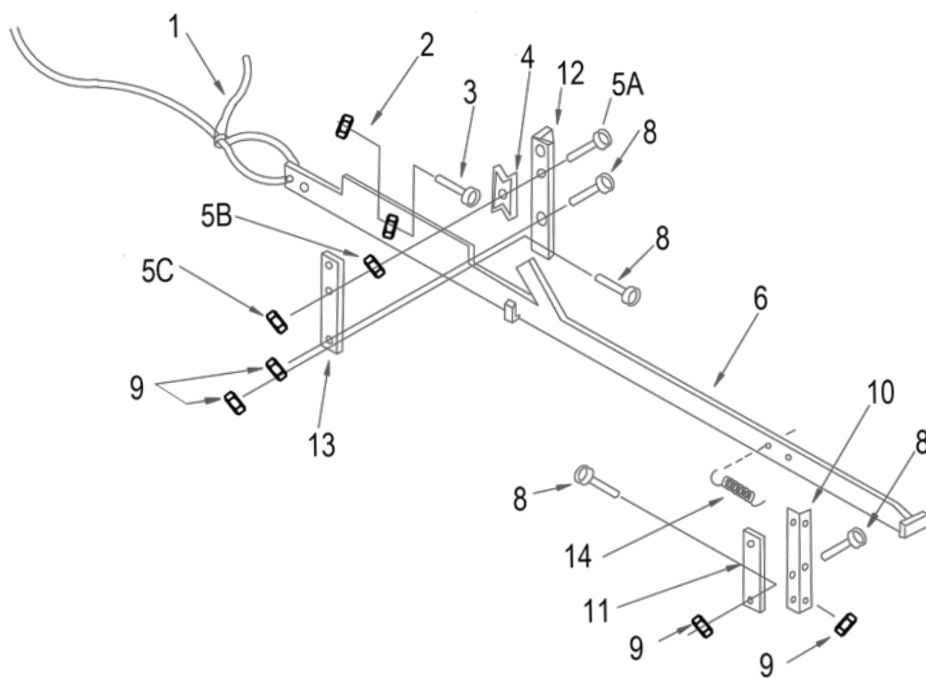
DRIVE SHAFT PARTS FOR MODEL 48 NC SERIES

Ref. No.	540 RPM	1000 RPM	Part No.	Description	Ref. No.	540 RPM	1000 RPM	Part No.	Description
1	1	1	NC-015005AD	Front Drive Shaft (NC15000, NC2000, & NC5000)	3A	1	1	KE-14112	Key, 1/4" x 1 1/2"
1	1	1	NC-015005AG	Front Drive Shaft (NC6000 & NC8000)	4	3	3	BR-PB100IMP	Pillow Block Bearing, 1"
2	1	1	NC-015005AE	Rear Drive Shaft (NC1500 & NC2000)	5	1	1	UJ-393010393	STD Universal, 1"R x 1"R
2	1	1	NC-015005AF	Rear Drive Shaft (NC5000)	5A	2	2	KE-K15N	Woodruff Key, 1/4" x 1
2	1	1	NC-015005AH	Rear Drive Shaft (NC6000 & NC 8000)	6	1	1	NC-025079L	PTO Support Assembly
3	1	-	PU-DB128501	Pulley Single Groove 8", 1" Bore 540RPM	6	1	1	NC-025079Q	PTO Support Assy, Narrow Track
3	-	1	PU-DG412X100	Pulley Single Groove 4.5", 1" Bore 1000RPM	7	6	6	BN-SSH38112	Bolt 3/8" x 1 1/2"
					8	6	6	BN-SSLN38	Lock Nut, 3/8"
					9	1	1	NC-025079M	PTO Locking Assembly
					10	1	1	KE-14112	Key, 1/4" x 1 1/2"

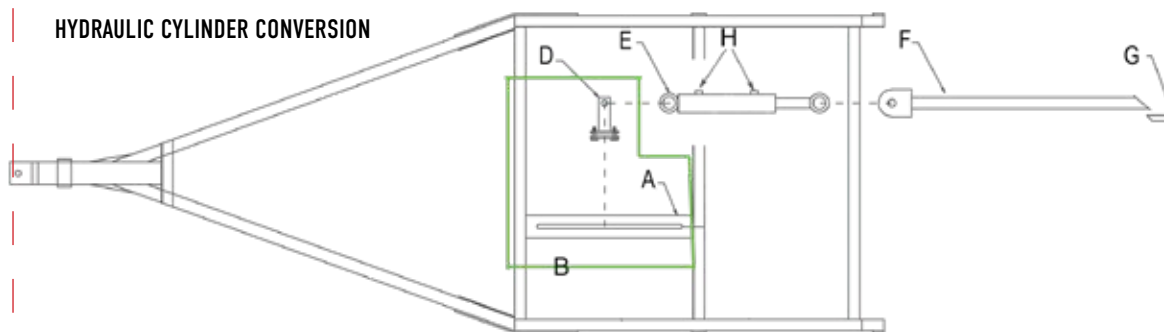


540 PTO SHAFT PARTS FOR MODEL 48 NC SERIES NC6000 & NC8000

Ref. No.	Qty.	Part No.	Description	Ref. No.	Qty.	Part No.	Description
-	-	GB-TR6QDP38	PTO Shaft Assembly, 3/8", 6 Spline	B	1	GB-9002560	Shield, 250, Plastic, x 60 in
-	-	GB-TR6QDP38M	PTO Shaft Assy, 3/8", 6 Spline, Modified	C	1	GB-0415169	Bushing, AS250
-	-	GB-9721154	Outer Guard	D	1	GB-10000648	Assy., 6, Yoke, & Shaft x 48
-	-	GB-9621154	Inner Guard	E	2	GB-2000600	Cross and Bearing Kit, 6R
A	1	GB-9210600	Kit, Nylon 6, Easy Lock	F	1	GB-1020606	Yoke, 6, Trac, QD 1 3/8" x 6



HYDRAULIC CYLINDER CONVERSION



DRIVE ENGAGER FOR MODEL 48 NC SERIES

Ref. No.	Qty	Part No.	Description
1	1	MS-38ROPE	Nylon Rope, 3/8" x 20'
2	1	BN-SSLN12	SS, Lock Nut, 1/2"
3	1	BN-SSHH122	SS, Bolt, 1/2" x 2"
4	1	PM-025080C	Drive Engager Lock
5A	1	BN-SSHH516114	SS, Bolt, 5/16" x 1 1/4"
5B	1	BN-SSFW516	SS, Flat Washer, 5/16"
5C	1	BN-SSLN516	SS, Lock Nut, 5/16"
6	1	NC-025080Z	Rope Drive Engager, Various Sizes: Model Required
8	6	BN-SSHH38112	SS, Bolt, 3/8" x 1 1/2"
9	6	BN-SSLN38	SS, Lock Nut, 3/8"
10	1	NC-025080J	Rear Guide
11	1	PM-025080K	Rear Guide Strap
12	1	NC-025080H	Front Guide

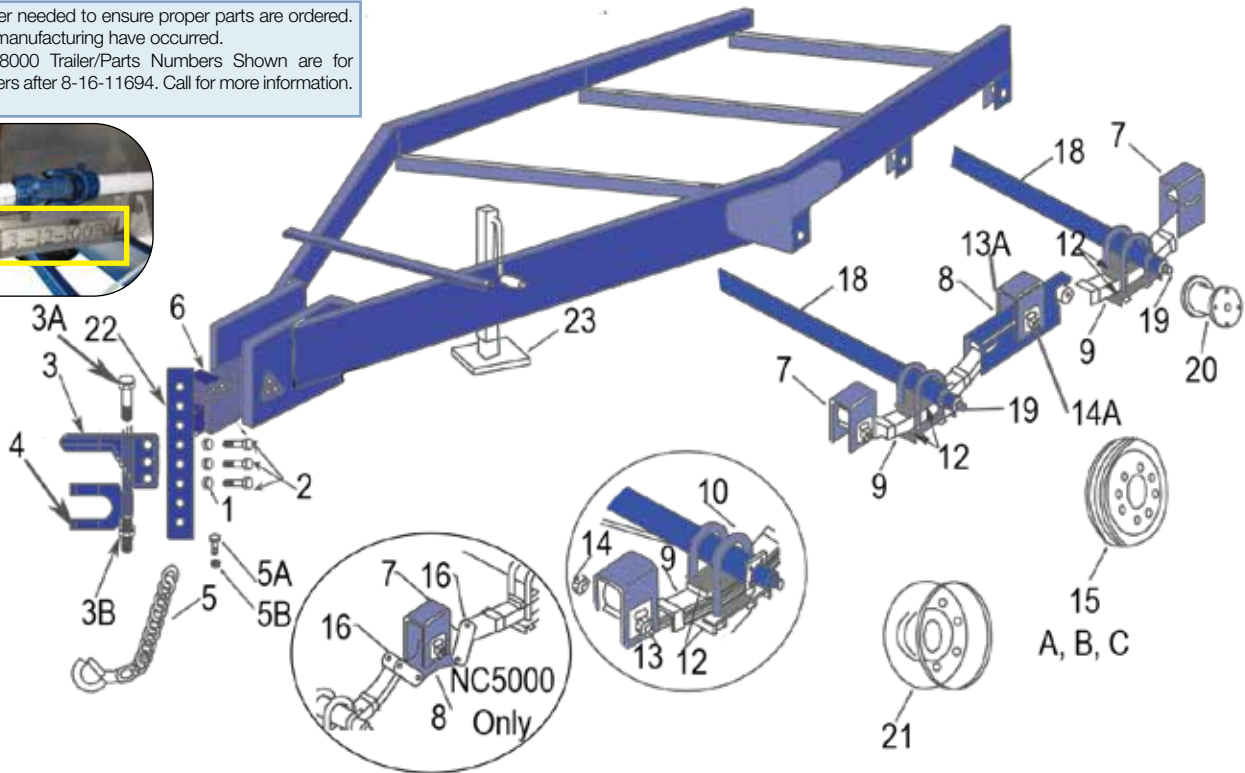
Ref. No.	Qty	Part No.	Description
13	1	PM-025080I	Front Guide Strap
14	1	SR-N235028	Engaging Lever Detention Spring

TO CONVERT TO HYDRAULIC CYLINDER ENGAGEMENT

A	1	NC-025080AN	Hydraulic Cylinder Platform
B	1	NC-025080AI	Hydraulic Cylinder Platform Assembly (Includes Ref A & D)
D	1	NC-015049AT	Hydraulic Cylinder Adjustment Bracket w/ plate and bolts
E	1	HC-3020	Hydraulic Cylinder
F	1	NC-025080AG	Hydraulic Engager Arm Kit Various Sizes: Model Required
H	2	HH-849FS0808	Fitting, 1/2" NPT 1/2" JIC 90°
I	4	BN-SSHH38112	Bolt, 3/8"
	4	BN-SSLM38	Lock Nut, 3/8"

48 NC5000, NC6000, NC8000 SERIES TRAILER

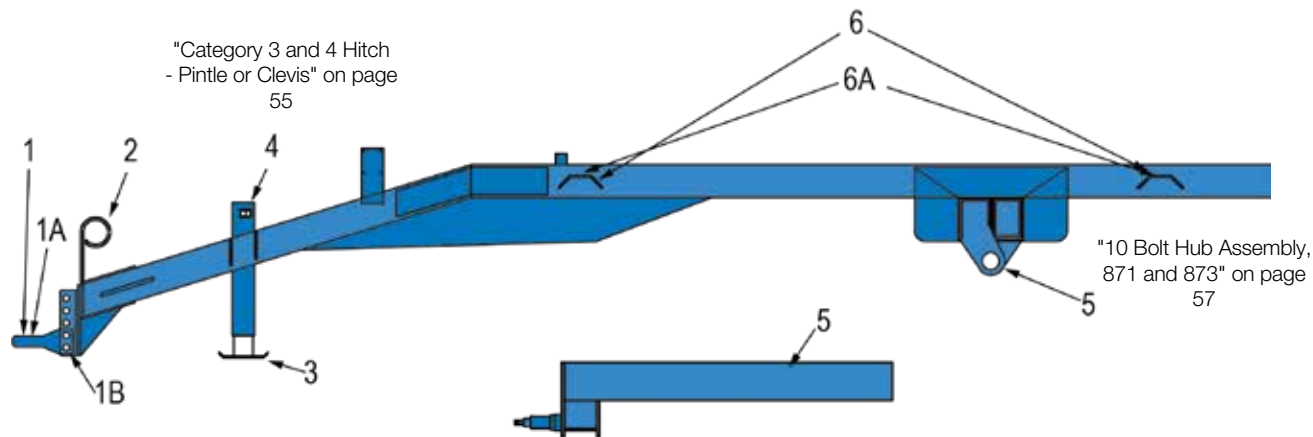
Serial Number needed to ensure proper parts are ordered. Changes in manufacturing have occurred. NC6000/NC8000 Trailer/Parts Numbers Shown are for Serial Numbers after 8-16-11694. Call for more information.



Ref No.	NC5000	NC6000	NC8000	NC8000 Brakes	Part No.	Description	Ref No.	NC5000	NC6000	NC8000	NC8000 Brakes	Part No.	Description
1	3	3	3		BN-LNGC34	Lock Nut, 3/4" Grade 8	13	6	-	-		HA-916312	Suspension Bolt & Nut
2	3	3	3		BN-HHG8347	Bolt, 3/4" x 7" Grade 8	14	6	-	-		HA-916312LN	1/2" x 3 1/2"
3	1	1	1		DI-CATEGORY3HITCH	Category 3 Hitch	13	-	4	4		HA-00726400	Spring Eye Bolt, 10K, 3/4"
3A	1	1	1		DI-CATEGORY3BOLT0	Category 3 Bolt	14	-	4	4		HA-00611300	Lock Nut, 3/4"
3B	1	1	1		DI-CATEGORY3NUT00	Category 3 Nut	13A	-	2	2		HA-00713602	Equalizer Bolt, 10K, 1"
4	1	1	1		DI-CATEGORY3CLEVIS	Category 3 Clevis	14A	-	2	2		HA-006112000	x 5 1/4"
5	2	2	2		CA-3FTSAFETYCHAIN	Safety Chain	15A	-	-	2		HA-608DRUM	Brake Drum, 13"
5A	2	2	2		BN-HH121234L9	Bolt, 1/2" x 1 1/4" L9	15B	-	-	1		DI-9651	Brake Plate, 13" RH
5B	2	2	2		BN-LN12L9	Lock Nut, 1/2" L9	15C	-	-	1		DI-9652	Brake Plate, 13" LH
6	-	-	1		DI-18117	Actuator w/o Clevis	16	8	-	-		PM-015047B	Shackle
7	6	-	-		BB-721585	Hanger	18	2	-	-		ST-TRC312212	Axle Tubing, 3 1/2" x 1/2" x 58 7/8"
7	-	1	1		HA-10GDH34K1	Hanger Kit Single	18	-	2	2		ST-TRC334500	Axle Tubing, 3 3/4" x 1/2" x 73 1/4"
8	2	-	-		HX-091301	Center Equalizer	19	4	-	-		HA-2873200L155000	Spindle
8	1	-	-		HX-091401	Bushing 5/8" NC5000	19	-	4	4		HA-608SPINDLE	Spindle
8	-	1	1		HA-10GDH34K248	Hanger Kit Multi	20	1	-	-		NC-015083I	Sprocket Carrier
9	4	-	-		HX-093160	Double Eye Spring 8 Leaf	20	-	1	1		NC-015083F	Measurement Needed
9	-	4	4		HA-D07208001	Slipper Spring, 2 1/2"	21	1	-	-		WT-ASSY11X6LUG00	11L Tire x 6 Lug
10	8	-	-		BN-UB1218	U Bolt, 1/2"	21	1	-	-		WT-ASSY12X6LUG000	12L Tire x 6 Lug
10	-	8	8		BN-UBRD5820	U Bolt w/ Nuts, 3 3/4"	21	-	1	-		WT-ASSY165LX8LUG0	16.5 Tire x 8 Lug
12	8	-	-		PM-015058D	Axle Tie Down Plate*	21	-	-	1		WT-ASSY19LX8LUG00	19L Tire x 8 Lug
12	-	8	8		PM-015058E	Axle Tie Down Plate*	22	1	1	1		NC-015031F	Cat 3 Clevis Channel
							23	1	1	1		JA-190500M	Tongue Jack, 7000 lb Top
												JA-190510M	Tongue Jack, 7000 lb Side

*8 Axle plates per trailer - 4 axle plates are welded to the axle, 4 axle plates are loose.

NC1500, NC2000, NC3000 have the same Hubs, Spindles, Jack, and Hitch as the NC 5000. Other parts differ. Call NC parts for assistance. Units designed for field use only.



MODEL 40 HIGH CLEARANCE TRAILER

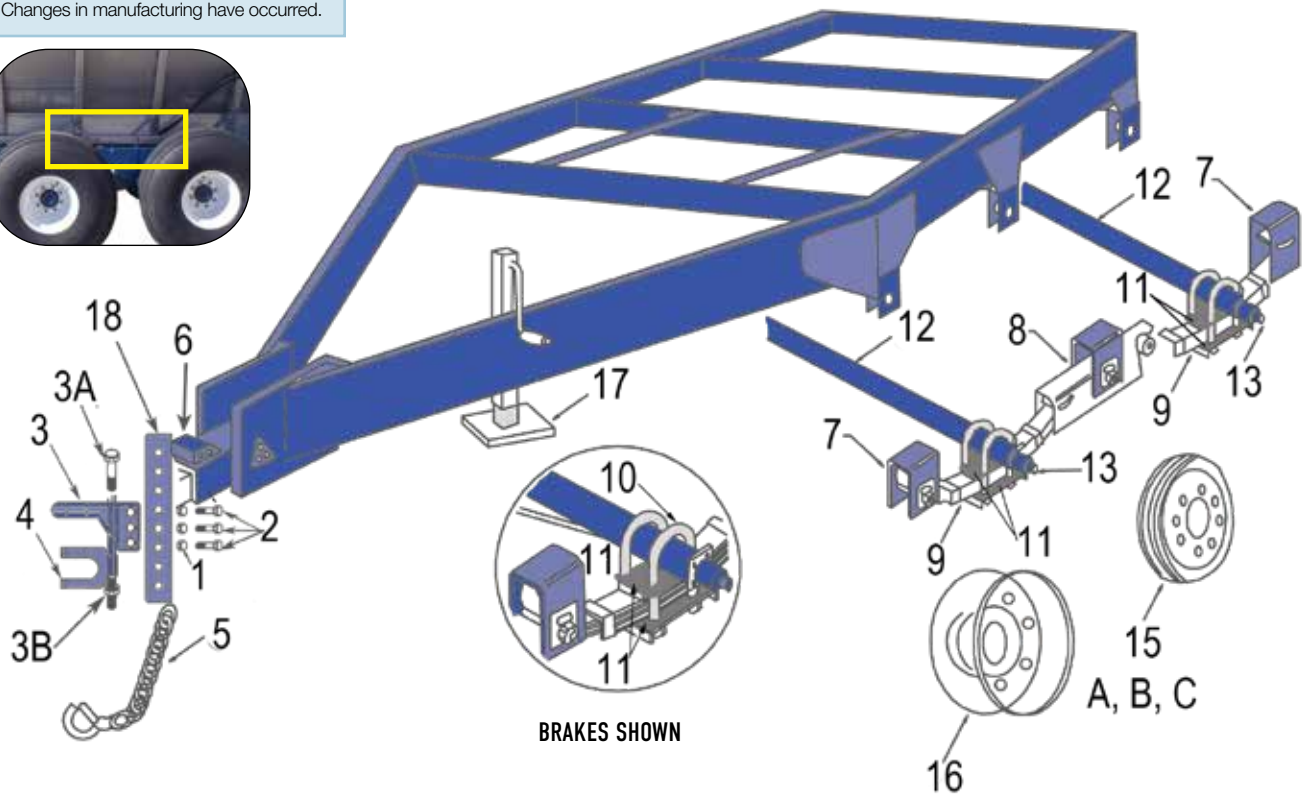
Ref No.	Qty	Part No.	Description	Ref No.	Qty	Part No.	Description
1	1	DI-CATEGORY-4CLEVIS	Clevis, Category 4	5	2	NC-015040N	Leg Assembly, Adjustable Axle
1A	1	DI-CAT4KIT	Cat 4 Perfect Hitch Kit	6	4	NC-015049BG	Tie Down Bracket
1B	1	NC-015031G	Clevis Channel, Cat 4	6A	4	BN-HHG834412 BN-HNG834	Bolt, ¾" x 4 ½" Grade 8 Hex Nut, Grade 8 Inspect & Replace Often or as Needed
1C	2	BN-HHG81X7 BN-LNG81	Bolt, Grade 8, 1" x 7" Lock Nut, Grade 8, 1"				Serial Number & Hub Face to Hub Face measurement needed to order replacement parts
2	1	NC-015049K	Pigtail, MS Rod ½" x 30"				Call NC Parts for Information for Other Tires & Rims
3	1	JA-182400M	Jack, 12,000 lb				
4	1	JA-015181	Jack Handle				



LEARN ABOUT HOW TO PERFORM A SPREAD PATTERN TEST BY VISITING
NEWTON CROUCH'S YOUTUBE CHANNEL.

47 SPREADIT SERIES TRAILER

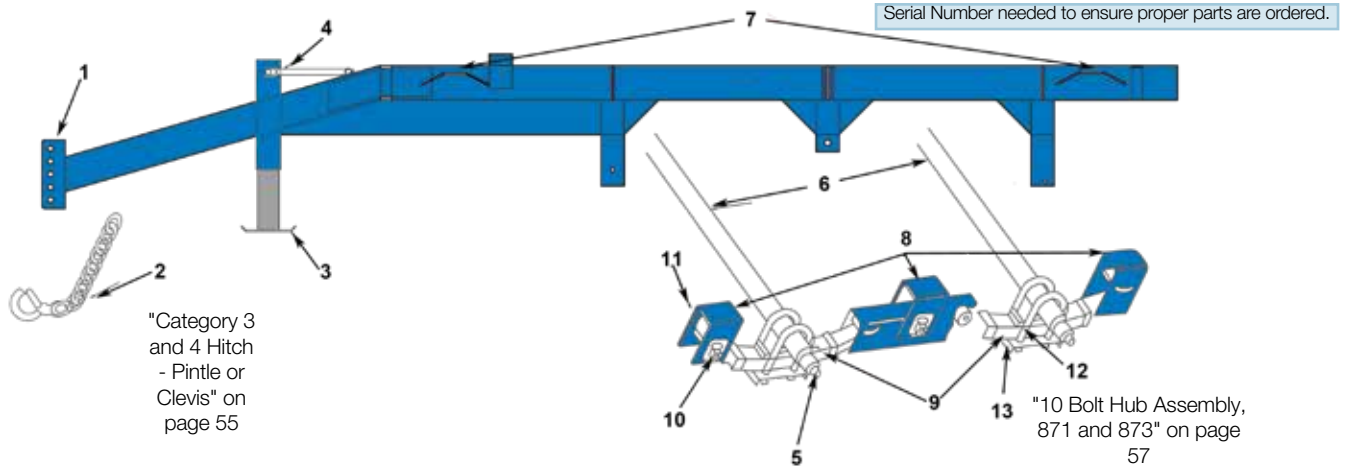
Serial Number needed to ensure proper parts are ordered. Changes in manufacturing have occurred.



COMMON NC PARTS

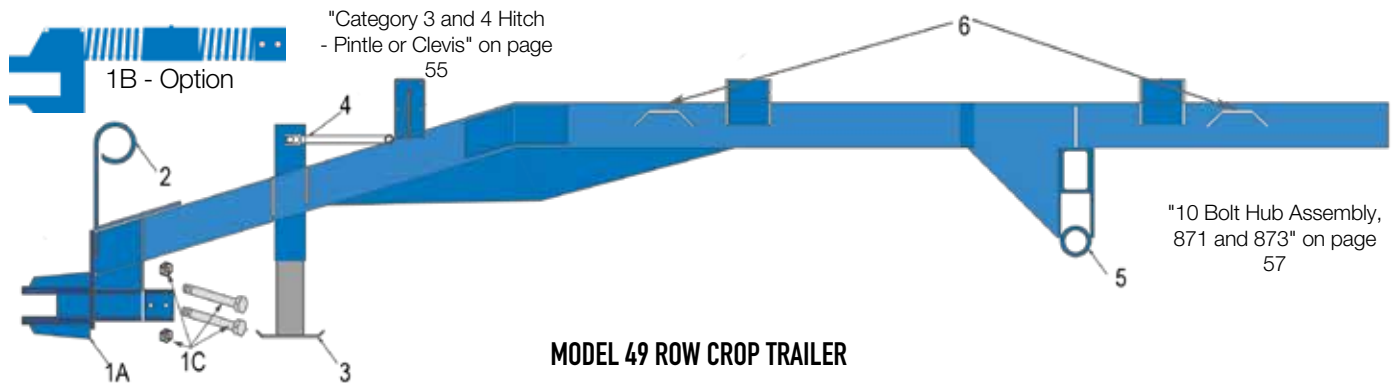
MODELS 47 SPREADIT SERIES W/ 60-8 HUBS

Ref No.	Spreadit No Brakes	Spreadit Brakes	Spreadit Jr No Brakes	Part No.	Description	Ref No.	Spreadit No Brakes	Spreadit Brakes	Spreadit Jr No Brakes	Part No.	Description
1	3	3	3	BN-LNGC34	Lock Nut, 3/4" Grade 8	11	8	8	-	PM-015058F	Axle Plate Tie Down, Spreadit
2	3	3	3	BN-HHG8347	Bolt, 3/4" x 7" Grade 8	11	-	-	8	PM-015058E	Axle Plate Tie Down, Spreadit Jr
3	1	1	1	DI-CATEGORY3HITCH	Category 3 Hitch	12	-	-	2	ST-TRC334500	Axle Tubing, 3 3/4" x 1/2" x 69" Long
3A	1	1	1	DI-CATEGORY3BOLTO	Category 3 Bolt	13	4	4	4	HA-608SPINDLE	60-8 Spindle
3B	1	1	1	DI-CATEGORY-3NUT00	Category 3 Nut	15A	-	2	-	HA-608DRUM	Brake Drum, 13"
4	1	1	1	DI-CATEGOY3CLEVIS	Category 3 Clevis	15B	-	1	-	DI-9651	Brake Plate, 13", RH
5	2	2	2	CA-3FTSAFETYCHAIN	Safety Chain	15C	-	1	-	DI-9652	Brake Plate, 13", LH
6	-	1	-	DI-18117	Actuator	16	4	4	-	WT-ASSY19LX-8LUG00	19L Tire, 8 Lug Wheel
7	-	-	1	HA-10GDH34K1	Hanger Kit, Single, Spreadit Jr	16	-	-	4	WT-ASSY165LX-8LUG0	16.5L x 16.1 Tire, 8 Lug Wheel
7	1	1	-	HA-DHAP10300	Hanger Kit Single, Spreadit	17	1	1	1	JA-190500M JA-190510M	Tongue Jack, 7000 lb Top Wind Tongue Jack, 7000 lb Side Wind
8	-	-	1	HA-10GDH34K242	Hanger Kit Multi, Spreadit Jr	18	1	1	1	NC-015031F	Cat 3 Clevis Channel
8	1	1	-	HA-DHAP20303	Hanger Kit Multi, Spreadit						
9	-	-	4	HA-D07208001	Slipper Spring, Spreadit Jr						
9	4	4	-	HA-D07204401	Slipper Spring, Spreadit						
10	8	8	8	BN-UBRD5820	U Bolts w/ Nuts, 3/4"						



MODEL 47H TRAILER, CATEGORY 3

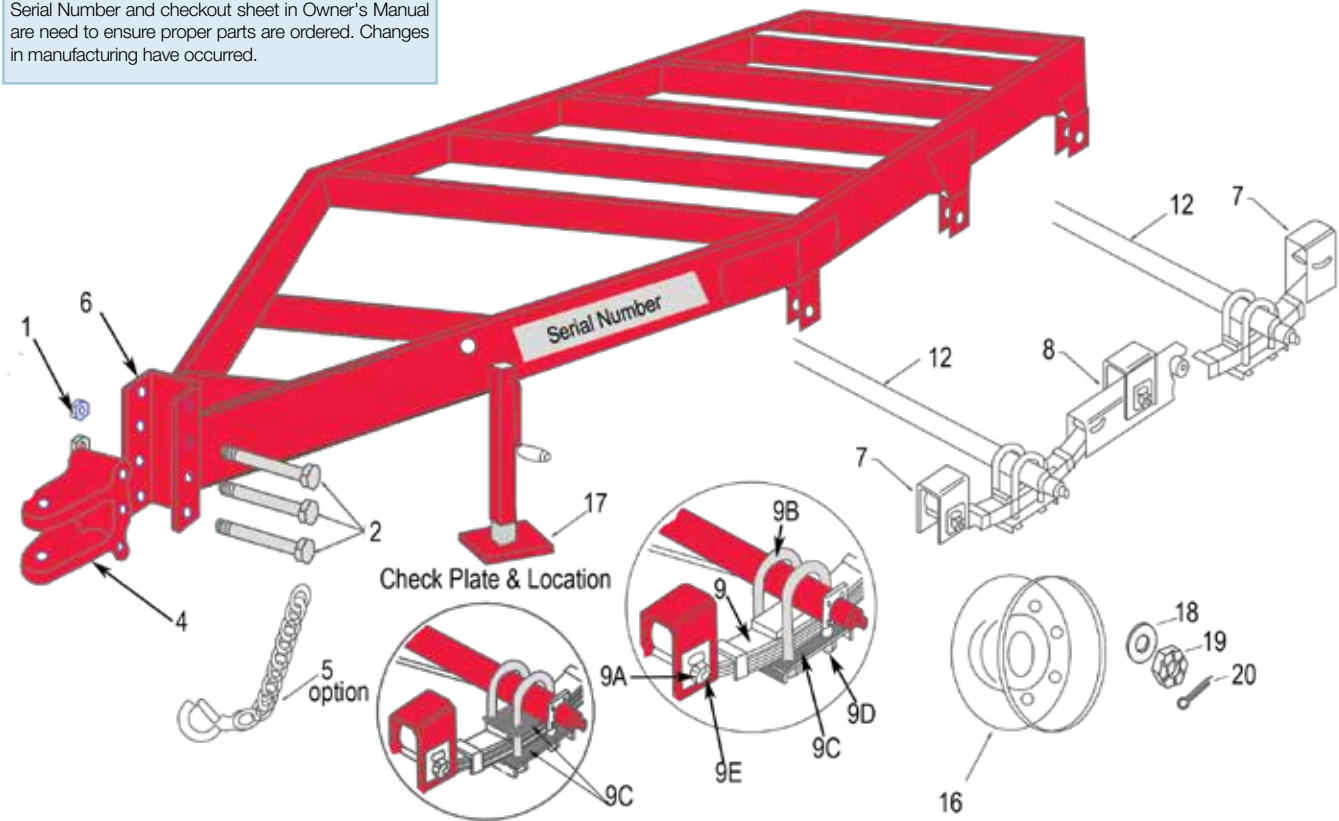
Ref No.	Qty	Part No.	Description	Ref No.	Qty	Part No.	Description
1	1	NC-015031F	Clevis Channel, Cat 3 "Category 3 and 4 Hitch - Pintle or Clevis" on page 55	8	1	HA-AP-T1025HD48500	Hanger Kit, 12,000 LB, Tandem Axle
2	1	CA-5FTSAFE-TYCHAIN	Safety Chain, Bolt On, 5 Ft	9	4	HA-4361600	Slipper Springs, 6,000 LB
3	1	JA-182400M	Jack, 12,000 lb, 47NC Spreader	10	4	HA-34412	Bolt for Slipper Springs, ¾" x 4 ½"
4	1	JA-015181	Jack Handle	11	4	HA-34LN	Lock Nut, ¾"
5	2	CN-015049AE	Spindle	12	8	BN-UBRD5824	U Bolt with Nuts
6	2	ST-TRC418500	Axle Tubing	13	8	PM-015058A	Axle Tie Down Plate
7	4	NC-015049BG	Spreader Tie Down Bracket	WT-ASSY19L10LUG		19L x 16.1 Tire and 10 Lug Wheel	



MODEL 49 ROW CROP TRAILER

Ref No.	Qty	Part No.	Description	Ref No.	Qty	Part No.	Description
1A	1	NC-015049AD	Swivel Hitch Assy w/ Collar Shaft	6	4	NC-015049BG	Tie Down Bracket
1B	1	NC-015049DF	Swivel Hitch Double Spring Assy	6A	4	BN-HHG834412	Bolt, ¾" x 4 ½" Grade 8
1C	2	BN-HH58512L9	Bolt, ¾", Grade 9		8	BN-HNG834	Hex Nut, Grade 8
	2	BN-LN58L9	Locking Nut, ¾"				Inspect & Replace Often or as Needed
Bolts and Nuts MUST be checked often for wear and replaced regularly				WT-11252412		11.25 x 28, 12 Ply Tire - NC Standard	
2	1	NC-015049K	Pigtail, MS Rod ½" x 30"	WT-81706		10 Lug Wheel, 11.25 x 28, 3" Offset	
3	1	JA-182400M	Jack, 12,000 lb, 49 Spreader	WT-ASSY1125X10LUG		11.25 x 28 Tire & 10 Lug Wheel Assy	
4	1	JA-015181	Jack Handle	WT-18426TURFTIRE0		18.4 x 26, 10 Ply Tire - Turf Tire	
5	Serial Number & Hub Face to Hub Face measurement needed to order replacement parts			Call NC Parts for Information for Other Tires & Rims		10 Lug Wheel for 18.4 x 26, 0 Offset	

Serial Number and checkout sheet in Owner's Manual are need to ensure proper parts are ordered. Changes in manufacturing have occurred.

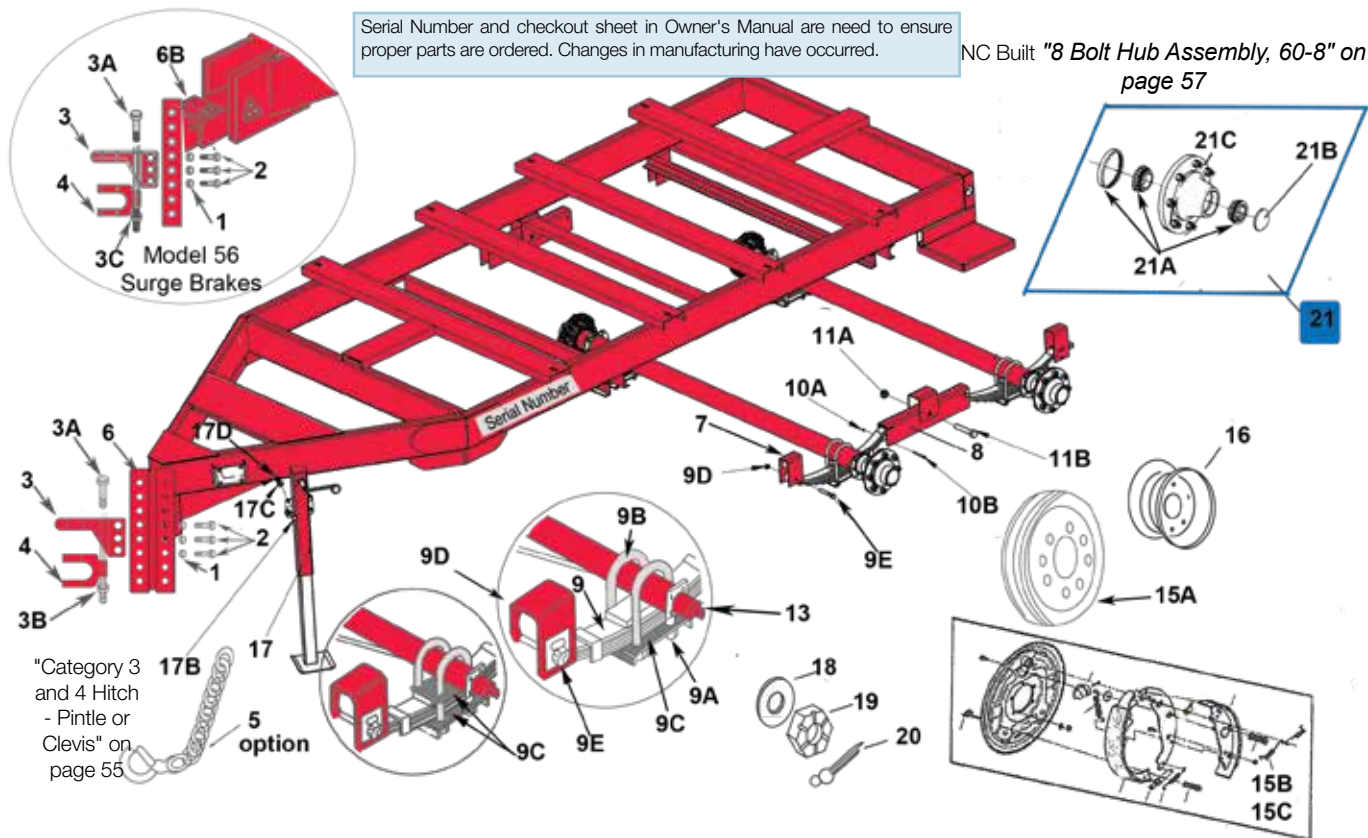


MODEL 56 NURSE TANK TRAILER - 1025 GALLON NC BUILT TRAILER OR BENKE BUILT TRAILER

Ref No.	NC	Benke	Part No.	Description	Ref No.	NC	Benke	Part No.	Description
1	3	3	BN-LN58L9	Lock Nut, 5/8" L9	12	2	-	HA-DD60	Axle Assy w/ Springs, NC Includes 9A, 9B, 9D, 9E, & 6 Bolt Hub Assy
2	3	3	BN-HH58412L9	Bolt, 5/8" x 4 1/2" L9	12	-	2	81078	Axle Beam Only, Benke
4	1	1	DI-18078	Clevis Hitch	16	4	-	WT-ASSY11LX6LUG00	11L Tire and 6 Lug Wheel
5			CA-3FTSAFTEYCHAIN	Safety Chain w/ Bolt, Option	16	4	-	WT-ASSY12LX6LUG000	12L Tire and 6 Lug Wheel
6	1	-	NC-1234	Clevis Channel, 1025 Gal	17	1		JA-158452	Tongue Jack, 2000 lb, NC
7	1	-	HA-DHGR238	Hanger Kit, 1025 Gal, NC	17	-	1	81057	Swivel Jack, Benke
8	1	-	HA-DAP216	Part Kit, 1025 Gal, NC	18	-	4	81202	Washer, Benke
8	-	1	81079	Center Equalizer, Benke	19	-	4	81203	Castle Nut, 1" x 16 UNF, Benke
9	-	4	81013	Slipper Spring 5 Leaf, Benke	20	-	4	81204	Cotter Pin, 1/8" x 2"
9A	-	4	81045	Hex Lock Nut, 5/8" x 18, Benke					
9B	-	8	81081	U Bolt, 1/2" x 7", Benke					
9C	8	-	PM-015058D	Axle Tie Down Plate, NC					
9C	-	4	81080	Axle Tie Down Plate, Benke					
9D	-	16	81082	Nut, 20 Fine Thread, 1/2", Benke					
9E	-	4	81015	Suspension Bolt, 5/8" x 3 1/2", Benke					

Please have your serial number ready when calling NC Parts.

Serial Number is welded on the Nurse Tank Trailer and also on the Check Out Sheet in your Equipment Manual.



Serial Number and checkout sheet in Owner's Manual are need to ensure proper parts are ordered. Changes in manufacturing have occurred.

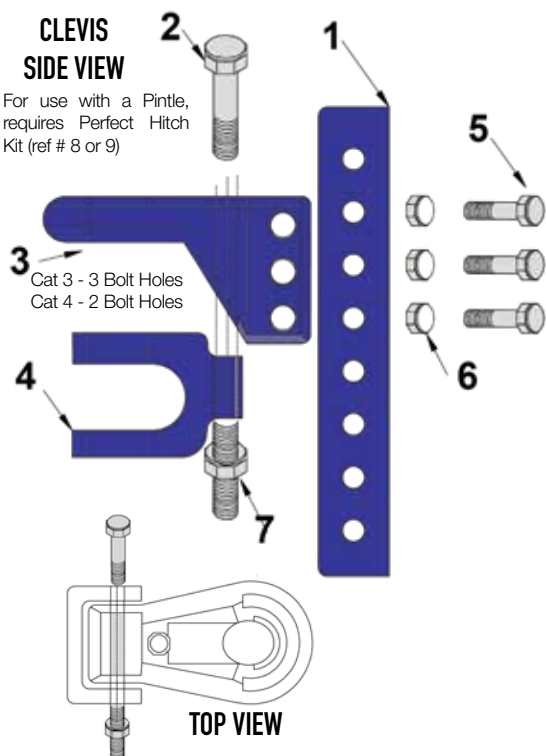
NC Built "8 Bolt Hub Assembly, 60-8" on page 57

MODEL 56 NURSE TANK TRAILER - 1635 GALLON NC & BENKE BUILT

Ref No.	NC	Benke	Part No.	Description	Ref No.	NC	Benke	Part No.	Description
1	3	3	BN-LNGC34	Lock Nut, 3/4" Grade 8	11B	-	2	81085	Bolt, 1/8" x 5", Benke
2	3	3	BN-HHG8347	Bolt, 3/4" x 7" Grade 8	13	4	-	HA-608SPINDLE	60-8 Spindle
3	1	1	DI-CATEGORY3HITCH	Category 3 Hitch	15A	2	-	HA-608DRUM	13" Brake Drum
3A	1	1	DI-CATEGORY3BOLT0	Category 3 Bolt	15B	1	-	DI-9651	13" RH Brake Plate
3B	1	1	DI-CATEGORY3NUT00	Category 3 Nut	15C	1	-	DI-9652	13" LH Brake Plate
4	1	1	DI-CATEGYOY3CLEVIS	Category 3 Clevis	16	4	4	WT-ASSY19LX8LUG00	19L Tire and 8 Lug Wheel
5			CA-3FTSAFTEYCHAIN	Safety Chain w/ Bolt, Option	17	1	-	JA-190500MS	Jack, 7000 lb, 6 1/2 Down, NC
6	1	-	NC-015031F	Cat 3 Clevis Channel, NC	17	-	1	81089/Varies	Jack, TJD-700S-BEI-H, Benke
6B	1	-	DI-18117	Actuator, Brakes Only, NC	17B	-	4	25083	Bolt, 1/2" - 11 x 1 1/2"
7	1	-	HA-DHAP10500	Hanger Kit Single, NC	17C	-	4	25230	Flat Washer, 1/2"
8	1	-	HA-DHAP20503	Hanger Kit Multi, NC	17D	-	4	25095	Hex Nut, 1/2" - 11
8	-	1	810094	Center Equalizer, 9K, Benke	18	-	4	81202	Washer, 1", Benke
9	-	4	81084	Slipper Spring 6 Leaf, Benke	19	-	4	81203	Castle Nut, 1" Benke
9A	-	16	81088	Bolt Hex Lock Nut, 5/8", Benke	20	-	4	81204	Cotter Pin, 1", Benke
9B	-	8	24475	U Bolt, 5/8" x 11", Benke	21	4	-	HA-608HUBBASSY	Hub Assy, 8 Bolt, Complete w/ Bearing, Includes 21A, 21B, 21C
9C	8	-	PM-015058E	Axle Tie Down Plate, NC	21	-	4	81031	Hub Assy, 8 Bolt, Complete w/ Bearing, Includes 21A, 21B, 21C
9C	-	4	21149	Axle Tie Down Plate, Benke	21A	-	4	81029	Bearing and Seal Only, Benke
9D	-	4	25095	Nut, 5/8" x 11, Benke	21B	-	4	81028	Dust Cap Only, Benke
9E	-	4	81087	Suspension Bolt, 5/8" x 4", Benke	21C	-	4	81032	Hub Only, 8 Bolt
10A	-	4	81090	Hex Nut, 5/16" - 18, Benke	Have serial number ready when calling NC Parts.				
10B	-	4	81091	Bolt, 5/16" - 18 x 3 1/4", Benke					
11A	-	2	81086	Hex Nut, 1-8, Benke					

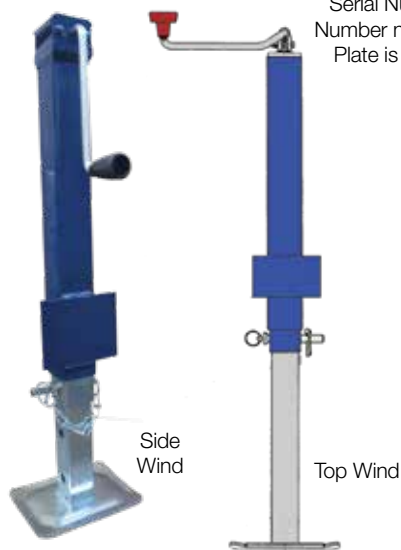
CLEVIS SIDE VIEW

For use with a Pintle,
requires Perfect Hitch
Kit (ref # 8 or 9)



TOP VIEW

Serial Number and/or Model
Number needed to ensure Jack
Plate is welded on correctly



CATEGORY 3 HITCH

- Vertical mounting hitch
- Vertical load 6,600 lb
- 3 Bolt
- Max drawpin size 1.5" for 40° of roll

CATEGORY 4 HITCH

- Vertical mounting hitch
- Vertical load 7,500 lb
- 2 Bolt
- Max drawpin size 2" for 40° of roll

CATEGORY 3 AND 4 HITCH - PINTLE OR CLEVIS

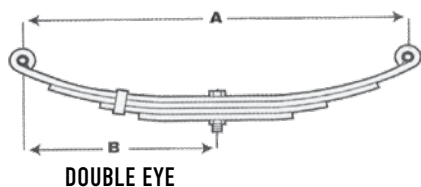
Ref No.	Cat 3	Cat 4	Part No.	Description
1	1	-	DI-CATEGORY3BRKT	Clevis Channel w/ Brakes, Cat 3
1	1	-	NC-015031F	Clevis Channel w/o Brakes, Cat 3
1	-	1	NC-015031G	Clevis Channel, Cat 4
2	1	1	DI-CATEGORY3BOLT0	Bolt, Category 3 or 4
3	1	-	DI-CATEGORY3HITCH	Hitch, Category 3 (Shown)
3	-	1	DI-CATEGORY4HITCH	Hitch, Category 4 (Two Holes)
4	1	-	DI-CATEGORY3CLEVIS	Clevis, Category 3
4	-	1	DI-CATEGORY4CLEVIS	Clevis, Category 4
5	3	-	BN-HHG8347	Bolt, ¾" x 7" Grade 8, Cat 3
5	-	2	BN-HH1XG8	Bolt, 1" x 8", Grade 8, Cat 4
6	3	-	BN-LNGC34	Lock Nut, ¾" Grade 8, Cat 3
6	-	2	BN-LNG81	Lock Nut, 1", Grade 8, Cat 4
7	1	1	DI-CATEGORY3NUT00	Nut, Category 3 or 4
	1	-	DI-CAT3KIT	Perfect Hitch Kit, Cat 3
	-	1	DI-CAT4KIT	Perfect Hitch Kit, Cat 4

JACKS

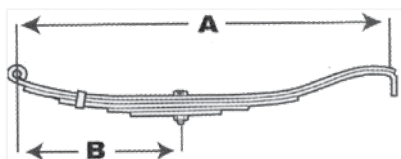
Part No.	Description	Model	Attach to Trailer
JA-158452	2,000 lb Tongue Jack	561025, NC	Swivel
81057	2,000 lb Tongue Jack	561025, Benke	Swivel
JA-190500M	7,000 lb Tongue Jack, Topwind	45300,45500, 46, 47NC, 48, 57	Slide Plate
JA-190500MS	7,000 lb Tongue Jack, Various	561635, NC	Bolt, 6 ½ Down
81089/Varies	7,000 lb Tongue Jack, Various	561635, Benke	Bolt On
JA-190510M	7,000 lb Tongue Jack, Sidewind	58TB	Slide Plate
JA-182400	12,000 lb Jack, 63" Full Extension Drop Leg	31, 41	Welded On
JA-182400M	12,000 lb Jack, 63" Full Extension Drop Leg w/ Plate	40, 47H, 49; Plate Placement Dependant on Model	Bolt On
JA-015181	12,000 lb Jack Handle	31, 40, 41, 47H, 49	Bolt onto Jack

SLIPPER SPRINGS AND EYE SPRINGS

Part No.	Model	Hopper	No of Leaves	Capacity	A	B	Width	Eye Diameter
HA-D07208001	47 Spreadit JR	6 Ton	5	5000 lb	30"	13 ½"	2 ½"	¾"
HA-D07204401	47 Spreadit	8 Ton	6	6000 lb	30"	13 ¾"	3"	1"
HX-093160	48 NC5000	6 Ton	5	3300 lb	24 ¾"	12 ¾"	1 ¾"	Two ¾"
HA-D07208001	48 NC6000 48 NC8000	6 Ton 8 Ton	5	5000 lb	30"	13 ½"	2 ½"	¾"
BB-81013	561025 Benke	1025 Gal	5	-	26 ½"	11 ½"	2"	½"
HA-D07201002	561635	1635 Gal	6	4500 lb	30"	13 ½"	2"	¾"



DOUBLE EYE



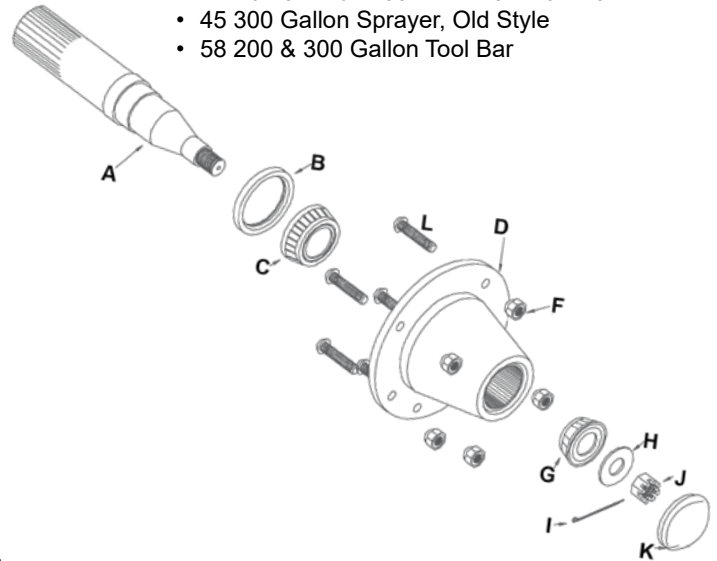
SINGLE EYE

5 BOLT HUB ASSEMBLY

Ref	Qty	Part No.	Description
A	1	CN-015045DS	Spindle
B	1	HA-9062951	Hub Seal
C	1	HA-9102621	Bearing Inner
D	1	HA-2810100	Hub Assembly
D	1	HA-2810100M	Hub Assembly (Must be Turned Down to Fit Sprocket Carrier)
F	5	HA-913549	Lug Nuts
G	1	HA-9102591	Bearing Outer
H	1	HA-9136071	Spindle Washer
I	1	HA-9059368	Cotter Pin
J	1	HA-9129531	Spindle Nut
K	1	HA-9099051	Hub Cap
L	5	HA-943536	LD Stud for Tool Bar

5 BOLT HUB ASSEMBLY FOR MODELS:

- 45 300 Gallon Sprayer, Old Style
- 58 200 & 300 Gallon Tool Bar

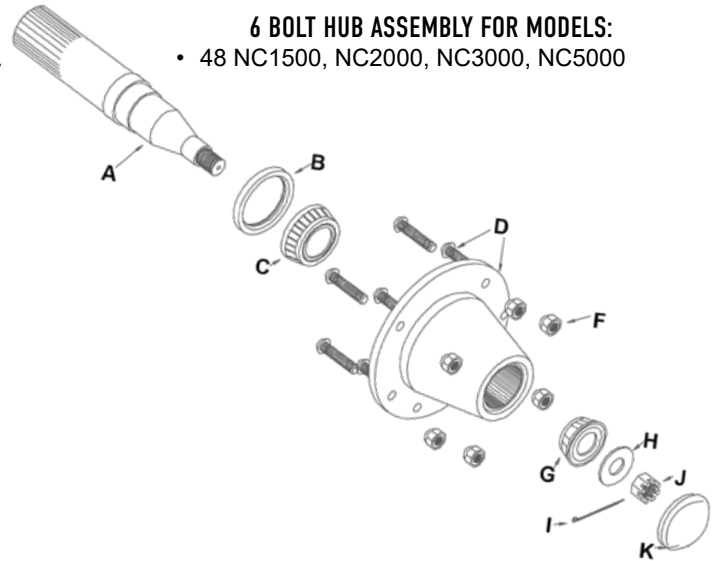


6 BOLT HUB ASSEMBLY

Ref	Qty	Part No.	Description
A	1	HA-2873200L155000	Spindle
B	1	SE-CR22368	Seal
C	1	HA-9102731	Bearing Inner
D	1	HA-2878900	Hub
D	1	HA-2878800	Hub Drilled & Tapped for Brake Drum
D	1	TI-44047	Brake Drum, 6 Bolt, 12"
F	6	BN-9129271	Lug Nuts
G	1	HA-9102591	Bearing Outer
H	1	HA-9136071	Spindle Washer
I	1	HA-9059368	Cotter Pin
J	1	HA-9129521	Spindle Nut
K	1	HA-9099051	Hub Cap

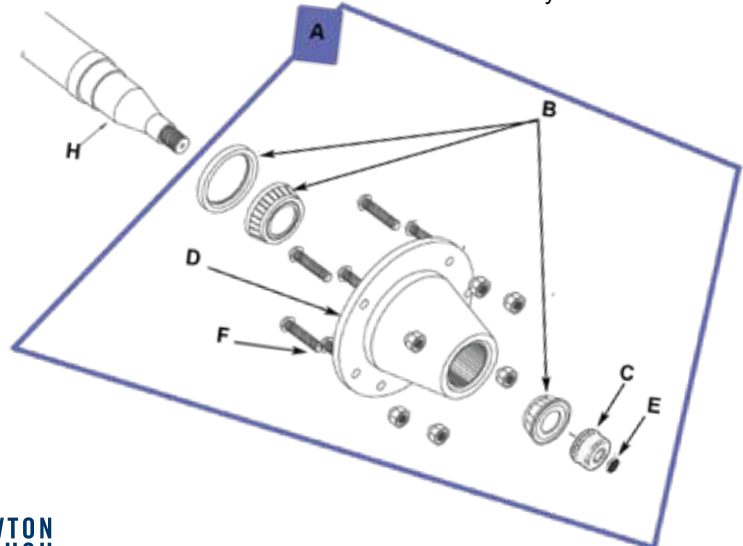
6 BOLT HUB ASSEMBLY FOR MODELS:

- 48 NC1500, NC2000, NC3000, NC5000



6 BOLT HUB ASSEMBLY FOR MODELS:

- 56 Nurse Trailer 1025 Gallon Built by Benke



6 BOLT HUB ASSEMBLY, BENKE

Ref	Qty	Part No.	Description
A	1	81023	Hub, 6 Bolt Complete w/ Bearing includes B-F
B	1	81027	Bearings and Seal Only
C	1	81024	Dust Cap Only
D	1	81026	Hub, 6 Bolt Only
E	1	81025	Rubber Insert for Cap
F	6	81046	Lug Bolt, 3/8"
H	1	81078	Axle Beam Only

8 BOLT HUB ASSY, PARTS ONLY

Ref	Qty	Part No.	Description
A	1	CN-01504AS	LD Spindle
B	1	SE-CR25091	LD Seal
C	1	BR-3780	LD Bearing
D	8	HA-9135481	LD Lug Studs
E	1	HA-2806700	LD Hub Assy, 8 Bolt
F	8	HA-913549	LD Lug Nut
G	1	BR-2790	LD Bearing
H	1	HA-9136831	LD Spindle Washer
I	1	HA-9059368	LD Cotter Pin
J	1	HA-9129521	LD Spindle Nut
K	1	HA-9099820	LD Hub Cap

8 BOLT HUB ASSEMBLY, 60-8

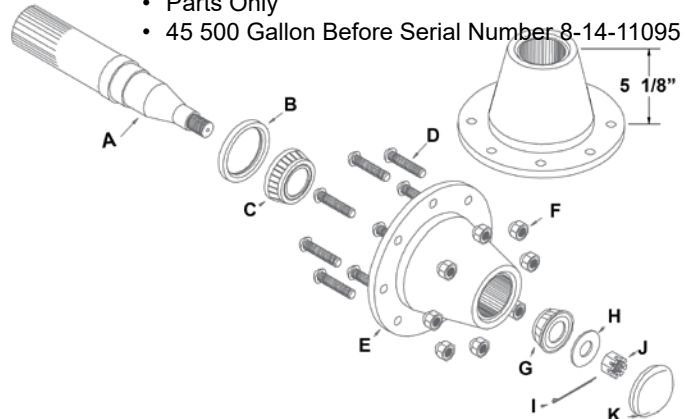
Ref	Qty	Part No.	Description
A	1	HA-608SPINDLE	60-8 Spindle
B	1	HA-608SEAL	60-8 Seal
C	1	HA-608BEARI	60-8 Bearing, Inner
D	1	HA-608HUBB	60-8 Hub w/ Studs
F	8	HA-608LUGNUT	60-8 Lug Nut
G	1	HA-608BEARO	60-8 Bearing, Outer
H	1	HA-608758SPINWASO	60-8 & 75-8 Spindle Washer
I	1	HA-608758SPINPINO	60-8 & 75-8 Cotter Pin
J	1	HA-608758SPIN-NUTO	60-8 & 75-8 Spindle Nut
K	1	HA-608HUBCAP	60-8 Hub Cap
		HA-608INNERRACE	Inner Race
		HA-608OUTERRACE	Outer Race

10 BOLT HUB ASSEMBLY, 871 AND 873

Ref	Qty	871 Part No.	873 Part No.	Description
A	1	CN-015049AE	HA-873SPINDLE	Heavy Duty Spindle
B	1	SE-30087	SE-33772CR	Heavy Duty Seal
C	1	BR-39585	BR-33275	Heavy Bearing, Inner
D	1	HA-9135641	HA-9135641	Heavy Duty Lug Studs
E	1	HA-2891300	HA-873HUBAS-SY	Heavy Duty Assy, 10 Bolt
F	10	HA-9129351	HA-9129351	Heavy Duty Lug Assy
G	1	BR-4600	BR-4600	Heavy Duty Bearing, Outer
H	1	HA-9136321	HA-9136321	Heavy Duty Spindle Washer
I	1	HA-9059441	HA-9059441	Heavy Duty Cotter Pin
J	1	HA-9129691	HA-9129691	Heavy Duty Spindle Nut
K	1	HA-9099831	HA-9099831	Heavy Duty Hub Cap
L	4	HA-9052098	HA-9052098	Heavy Duty Hub Cap Bolts
M	1	BR-453A	BR-453A	Heavy Duty Bearing Race, Outer
N	1	BR-39520	HA-33462	Heavy Duty Bearing Race, Inner

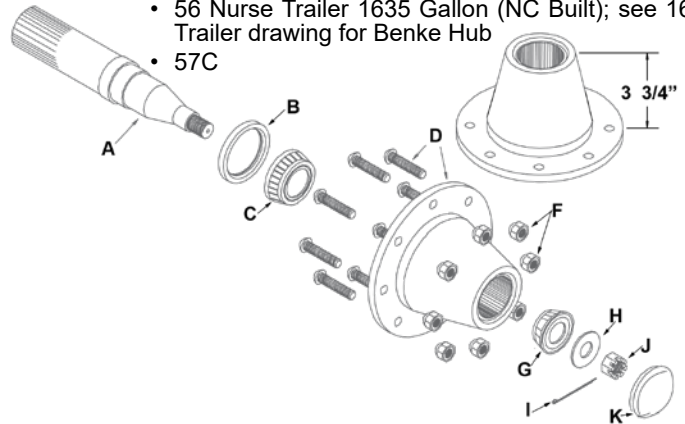
8 BOLT HUB ASSEMBLY (OLD STYLE) FOR:

- Parts Only
- 45 500 Gallon Before Serial Number 8-14-11095



8 BOLT HUB ASSEMBLY, 60-8 FOR MODELS:

- 41 Grove Spreader - 8 Foot
- 45 Pull Type Sprayers, 500 Gal & 1000 Tandem
- 46 Orchard / Forestry
- 47 Spreadit & Spreadit Junior
- 48 NC6000, 48 NC8000
- 56 Nurse Trailer 1635 Gallon (NC Built); see 1635 Trailer drawing for Benke Hub
- 57C

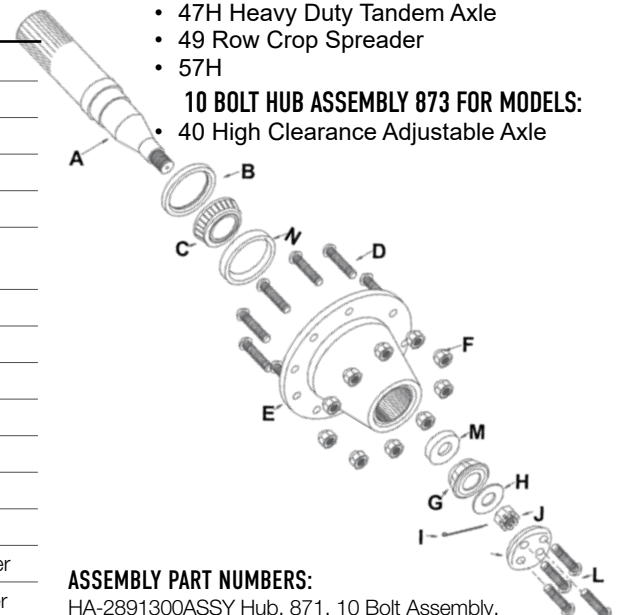


10 BOLT HUB ASSEMBLY 871 FOR MODELS:

- 41 Grove Spreader - 10 Foot
- 45 1000 Gallon Sprayer
- 47H Heavy Duty Tandem Axle
- 49 Row Crop Spreader
- 57H

10 BOLT HUB ASSEMBLY 873 FOR MODELS:

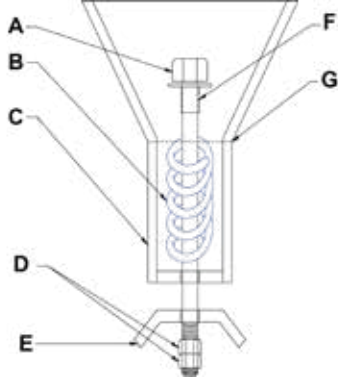
- 40 High Clearance Adjustable Axle



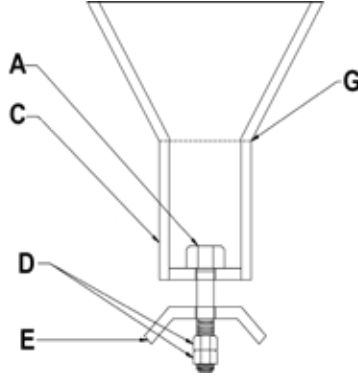
ASSEMBLY PART NUMBERS:

HA-2891300ASSY Hub, 871, 10 Bolt Assembly, HD (ref B,C,D,E,F, G, K,L,M,N)
HA-2891300SK Spindle Kit Assembly (ref H,I,J)

FORWARD MOUNT



REAR MOUNT



SINGLE "V" TIE DOWN

Ref No.	Qty	Part No.	Description
A	1	BN-HHG8347	Grade 8 Bolt, 3/4" x 7"
A1	1	BN-HHG834412	Grade 8 Bolt, 3/4" x 4 1/2"
B	1	NC-015040I	Spring, 3 1/2"
C	2	NC-0*5040D	Tie Down
D	2	BN-HNG834	Hex Nut, 3/4"
E	1	NC-0*5049BG	Tie Down Bracket, RC
F	1	MS-TV103	Spring Insert
G	1	PM-0*5040N	Tie Down Spacer Plate
		NC-0*5040L	Single Front Tie Down Assy
		NC-0*5040M	Single Rear Tie Down Assy

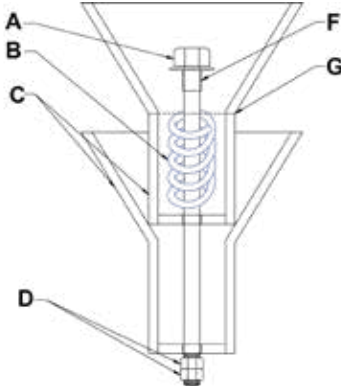
* Specify Mild or Stainless Steel. Replace * with 1=Mild Steel or 2= Stainless

DOUBLE "V" TIE DOWN

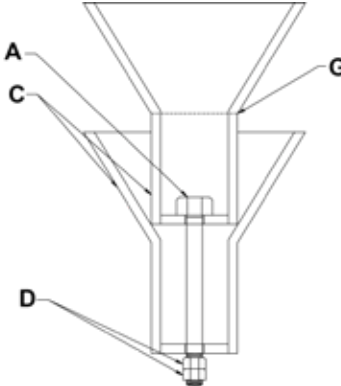
Ref No.	Qty	Part No.	Description
A	1	BN-HHG8349	Grade 8 Bolt, 3/4" x 9"
A1	1	BN-HHG834412	Grade 8 Bolt, 3/4" x 11"
B	1	NC-015040I	Spring, 3 1/2"
C	2	NC-0*5040D	Tie Down
D	2	BN-HNG834	Hex Nut, 3/4"
F	1	MS-TV103	Spring Insert
G	1	PM-0*5040N	Tie Down Spacer Plate
		NC-0*5040J	Double Front Tie Down Assy
		NC-0*5040K	Double Rear Tie Down Assy

* Specify Mild or Stainless Steel. Replace * with 1=Mild Steel or 2= Stainless

FORWARD MOUNT



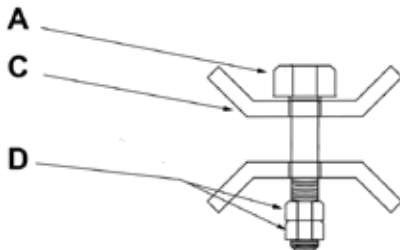
REAR MOUNT



PULL TYPE TIE DOWNS

Ref No.	Qty	Part No.	Description
A	1	BN-HHG834412	Bolt, 3/4" x 4 1/2" Grade 8
C	2	NC-015049BG	Tie Down Bracket, 47, 49
D	2	BN-HNG834	Hex Nut, Grade 8

* Specify Mild or Stainless Steel. Replace * with 1=Mild Steel or 2= Stainless



BOLTS AND NUTS MUST BE INSPECTED FOR WEAR REGULARLY.
REPLACE WITH SIGNS OF WEAR OR ON A YEARLY BASIS.

Guidance



"SCS Controllers" on page 97



"VIPER 4+" on page 94



"TeeJet Guidance System Guide" on page 99



"Sprayer Control" on page 103

"VisaGage II flow monitor" on page 174

"Applicator Tank and Saddle Assemblies" on page 70

"Piston Pumps" on page 163

"Valves" on page 80

"Boom Parts" on page 65

"HOSE & TUBING - order by the foot" on page 90

"HOSE & TUBING - order by the foot" on page 90

"8 Bolt Hub Assembly, 60-8" on page 57

"Hinge and Shock Assembly" on page 65

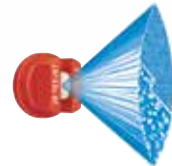
"Jacks" on page 55

"Category 3 and 4 Hitch - Pintle or Clevis" on page 55

Spray Tips page 113



"Quick TeeJet Nozzle Bodies" on page 136



"Caps" on page 117

Hose Drops page 137
Spray Tips page 113

Foam Markers page 187

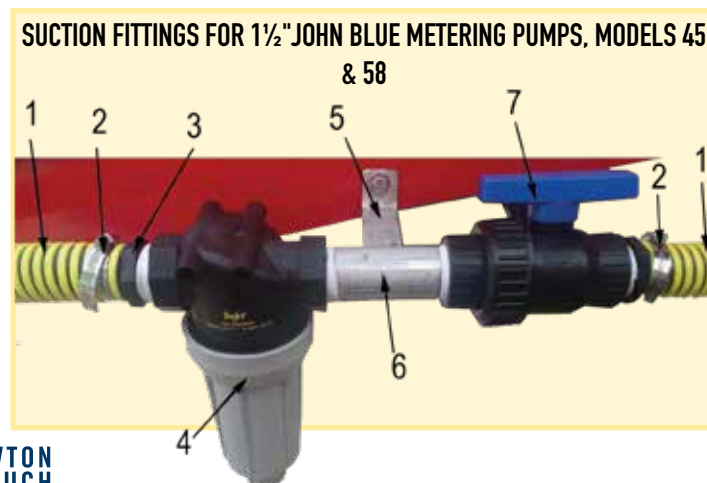
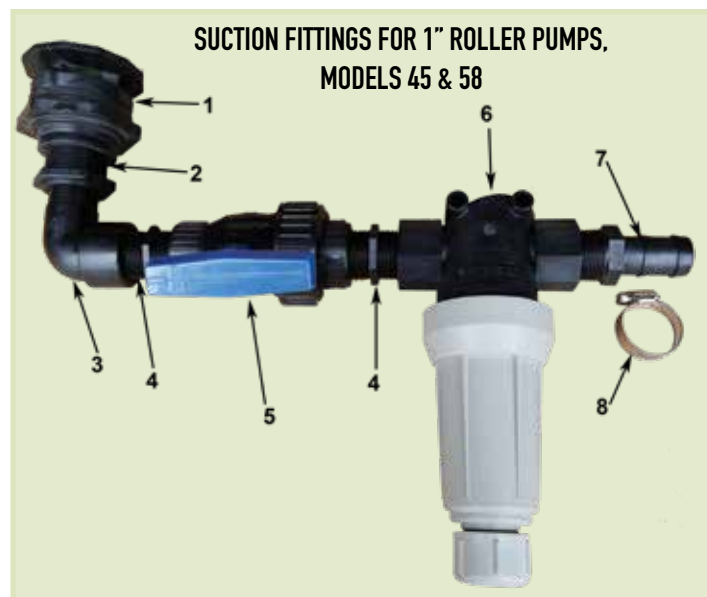
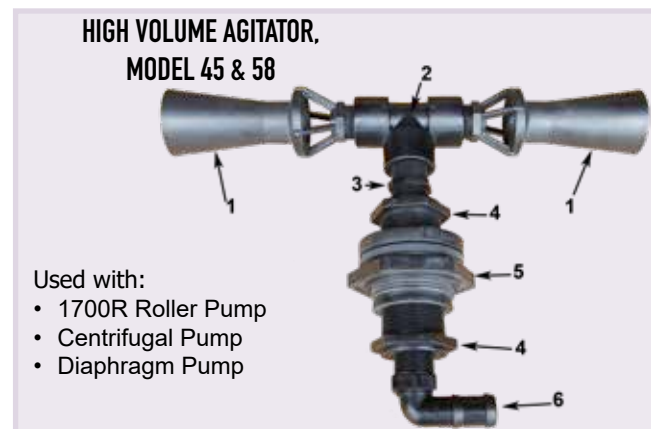
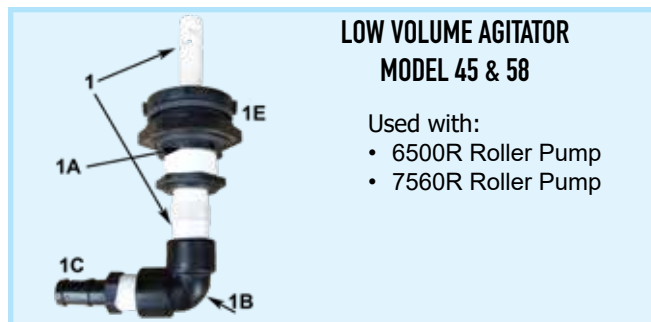


REF	QTY	PART NO.	DESCRIPTION
LOW VOLUME AGITATOR			
1	1	HY-CP33710019	Agitator, Low Volume
1A	1	TP-RB125075	1 1/4" to 3/4" Reducer
1B	1	TP-EL07590	3/4" Elbow
1C	1	TP-HB075	3/4" Hose Barb
1E	1	TK-CP60403	Tank Bulkhead Fitting, 1 1/4"
-	1	CL-1200	3/4" Hose Clamp

HIGH VOLUME AGITATOR			
1	2	HY-CP33710028	Agitator, High Volume, Bar-reled
2	1	TP-TEE075	3/4" Tee
3	1	TP-NIP075SH	3/4" Nipple
4	2	TP-RB125075	1 1/4" to 3/4" Reducer
5	1	TP-CP60403	Tank fitting
6	1	TP-HB07590	3/4" Hose Barb 90°
-	1	CL-1200	3/4" Hose Clamp

SUCTION FITTINGS FOR 1" ROLLER PUMP			
1	1	TK-CP63065	Tank Fitting, 1 1/4" Anti-Vortex
2	1	TP-RB125100	1 1/4" to 1" Reducer
3	1	TP-SL10090	1" Street Elbow 90°
4	2	TP-NIP100SH	1" Nipple
5	1	VL-BV60411	1" Union Ball Valve
6	1	SS-AA126ML450	1" Line Strainer
7	1	TP-HB100	1" Hose Barb
8	1	CL-1600	1" Hose Clamp

SUCTION FITTINGS JOHN BLUE 1 1/2" METERING PUMPS			
1		HO-SHBB112	1 1/2" Suction Hose, Helix
2	3	CL-3200	1 1/2" Hose Clamp
3	1	TP-HB150	1 1/2" Hose Barb
4	1	SS-AA126ML650	1 1/2" Line Strainer 50 Mesh Red
4	1	SS-AA126ML630	1 1/2" Line Strainer 30 Mesh Yellow
5	1	NC-025045FF-SS	Strainer Bracket
6		FS-M1125SS	1 1/2" x 5" Nipple, Stainless
7	2	VL-BV60413	1 1/2" Union Ball Valve



ROLLER PUMP - 1700C OR 1500C - RELIEF VALVE, MANUAL AGITATION, (2) 863T 2-WAY, PRESSURE GAUGE

Ref	Qty	Part No.	Description
1	1	AR-45551	Manual Pressure Relief Valve
2	1	AR-463T074	Manual Propor Valve, T5M, 150L/M
3	2	AR-863T001	Electric Valve 863T, T5, T3
4	1	GA-GG160	2" Liquid Filled Pressure Gauge
5	1	AR-219350N	Pressure Gauge Adapter, T5M
6	2	AR-1091320	Hose Tail, 3/4" T3M
7	2	AR-1191520	Elbow, 3/4" T5M
8	5	CI-1200	Hose Clamp, 3/4" Stainless

With Roller Pump 7560 or smaller, omit manual prop valve and use PRV for agitation.

DIAPHRAGM W/ RELIEF OR CENTRIFUGAL - MANUAL AGITATION, STRAINER, MANUAL ON/OFF, (3) 863T 2-WAY ON/OFF, REGULATOR, PRESSURE GAUGE

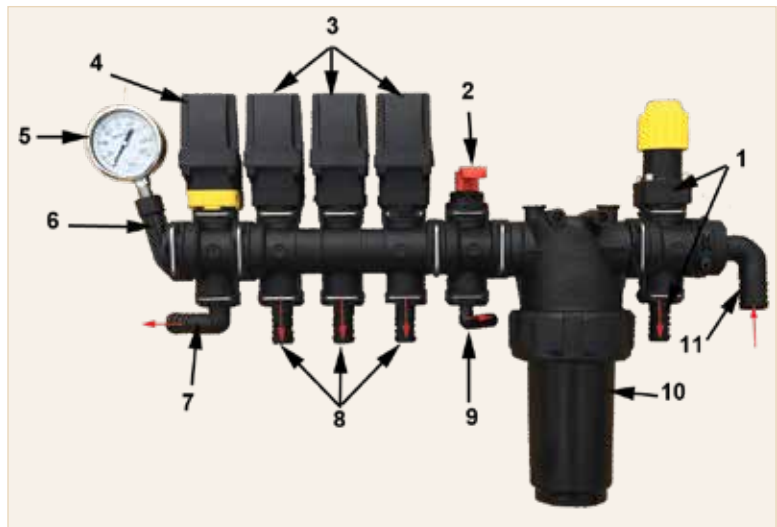
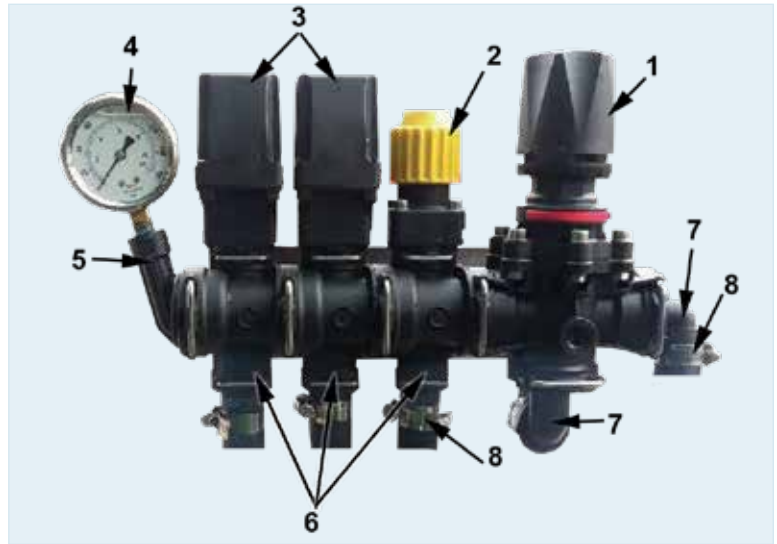
Ref	Part No.	Description
1	AR-463T074	Manual Prop Valve, T5M, 3/4" or 1"
2	AR-463T051	1-Way Manual Selection Valve for Handgun, Optional
3	AR-863T003	Valve Assembly, T5, T3
4	AR-863T020	Regulator, 100 L/M
5	GA-GG160	2" Gauge with Brass Stem
6	AR-219350N	Pressure Gauge Adapter, T5M
7	AR-1191320	Elbow, 3/4" T3M
8	AR-1091320	Hose Tail, 3/4" T3M
9	AR-1191313	Elbow, 1/2" T3M
10	AR-32620M3	Fork Coup Standard Line Strainer, 50 Mesh, 290 PSI, 55 GPM, T5M/T5F
11	AR-1191525	Elbow T5M D.25-1"
NS	AR-475551	Manual Pressure Relief Valve Required with Roller Pump

DIAPHRAGM W/O RELIEF OR ROLLER PUMP - 1700C OR 1500C - RELIEF VALVE, STRAINER, MANUAL AGITATION, (5) 863T ON/OFF 2-WAY, ELECTRIC REGULATOR, PRESSURE GAUGE

Ref	Qty	Part No.	Description
1	2	AR-1191525	Elbow T5M D.25-1"
2	1	AR-475552	Manual Pressure Relief Valve
3	1	AR-32620M3	Line Filter T5M/T5F, 50 Mesh
4	1	AR-463T074	Manual Propor Valve, 150 L/M 1"
5	1	AR-863T003	3-Way Electric Valves (3)
6	2	AR-863T001	3-Way Electric Valve (1)
7	1	AR-863T020	Prop. Electric Valve, 100 L/M
8	1	AR-219350G	Pressure Gauge Adapter, T5M
9	5	AR-1091320	Hosetail T3M D.20, 3/4"
10	1	AR-1191320	Elbow T3M D.20, 3/4"
NS	1	AR-91031001	Control Box, P50 H20, 3 Wires (Optional, Not Shown)

IMPORTANT NOTES ABOUT ARAG BOOM VALVE ELECTRIC:

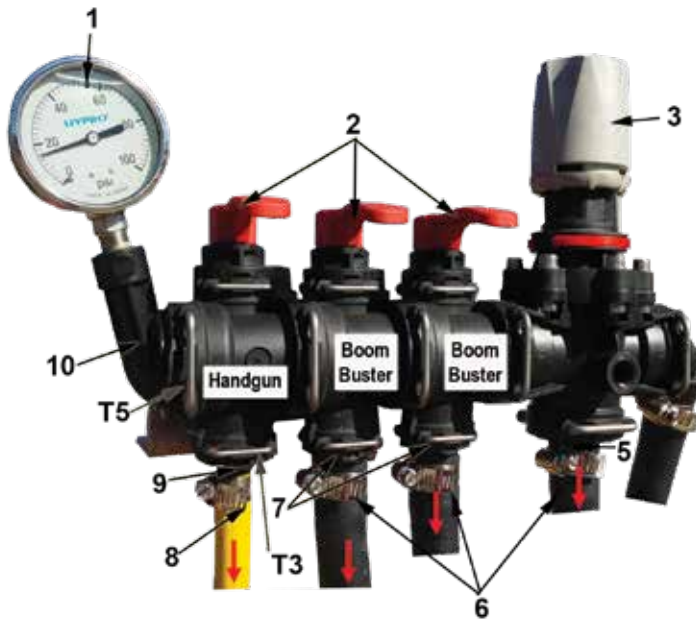
- Require matched switch box.
- Can be configured to various needs - within GPM limits.
- Up to five 863T electric 2-way or 3-way valves can be configured with manual agitation, strainer and relief valve.





DIGITAL PRESSURE GAUGE KIT

REF	PART NO.	DESCRIPTION
1	AR-46683B	Digital Pressure Gauge Kit
2	LW-44224	On/Off Switch with Chrome Handle
3	NC-025051	NC Mounting Bracket, Stainless
4	AR-91031001	Master 3 On/Off for 3 Wire Motor Regulator Control
-	AR466112X200 AR-219350G	Pressure Transducer 290 PSI Adapter for Pressure Transducer
-	AR-901208	2 On/Off for 3 Wire Motor Regulator Control
-	AR-9190493	Extension Cable, 9 Ft, for P50



ROLLER PUMP 6500C OR 7560C W/ RELIEF, (3) 2-WAY MANUAL VALVES, PRESSURE GAUGE

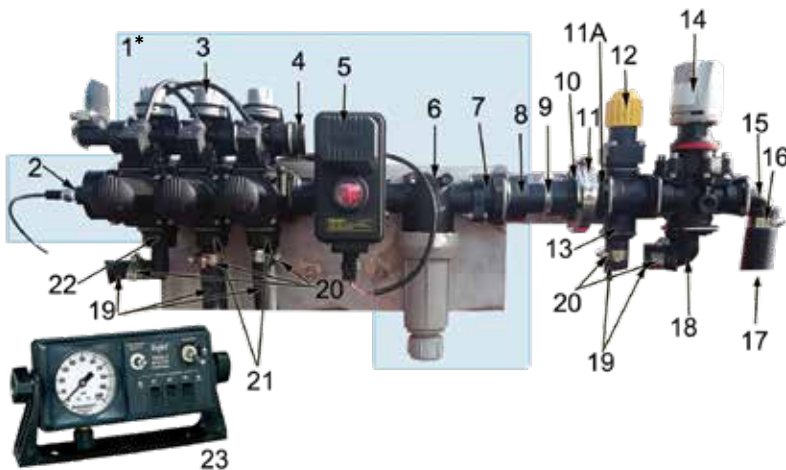
REF	PART NO.	DESCRIPTION
1	GA-GGSS100	100 PSI Liquid Filled Pressure Gauge, SS
2	AR-463T051	2-Way Manual Selection Valve, T5, T3
3	AR-475552	Manual Pressure Relief Valve, T5F, Reg 290 PSI
4	AR-1191520	Hose Tail, 3/4" 90°, T5M
5	AR-1091520	Hose Tail, 3/4", T5M
6	HO-34200 CL-1200	Spray Hose, 3/4" Hose Clamp, 3/4" Stainless
7	AR-1091320	Hose Tail, 3/4", T3M
8	HO-38600 CL-0600	Spray Hose, 3/8" Yellow, 600 PSI Hose Clamp, 3/8" Stainless
9	AR-1091310	Hose Tail, 3/8", T3M
10	AR-219350N	Pressure Gauge Adapter, T5M

ARAG FORKS & GASKETS

AR-010003	Fork, 3/4" T3 Fork
AR-010005	Fork, T5 Fork
Gaskets are located at each connection point internally. Gasket cannot be seen in schematic pictures.	
AR-G11058V	T3 Gasket Viton
AR-G11058	T3 Gasket (Not Shown)
AR-G11063	T5 Gasket (Not Shown)

COMMONLY USED ON APPLICATORS WITH DIAPHRAGM PUMP W/O RELIEF OR HYPRO 1500 /1700 ROLLER PUMP

* Reference 1 (SS-9860218433EC3-433) includes all Ref # within the blue box.



MD-9002439MD, Required for the valve configuration shown above. See "Sprayer Control" on page 103 for more information on the 744A Kit.

COMMONLY USED ON MODEL 45 APPLICATORS/SPRAYERS WITH DIAPHRAGM PUMP WITH RELIEF VALVE OR CENTRIFUGAL PUMP FOR 433A

* Reference 1 (SS-433EC2DA) includes all Ref numbers within the green box.



MD-9002439MD, Required for the valve configuration shown above. See "Sprayer Control" on page 103 for more information on the 744A Kit.

TEEJET 433 3-WAY METERED VALVES W/ ELECTRIC REGULATOR, STRAINER, ARAG MANUAL PROPORTIONAL VALVE, RELIEF VALVE

REF	PART NO.	DESCRIPTION
1*	SS-9860218433EC3-433	433 3-Way Metered Manifold Valves with Electric Regulator & Strainer
2	SS-5845614	Gauge Port, 1/4" LQC
3	SS-433EC3D	Valves, 433
4	SS-B45529P	Plug
5	SS-344BRLB01CCS	Electric Regulator
6	SS-AA12ML450	Strainer, 1"
7	CP-98497PP	Bolted Flange, M'LQC
8	SS-584561	LQC c 1" F'Kit
9	FS-M100SS	Nipple, Stainless, 1" x 1/2"
10	TP-M200PLG100	Flange Plug 2" with 1" Female
11	TP-FC220 TP-200G	Flange Clamp, 2" FP Gasket
11A	AR-279157	Clamp Fit, 2" Adapter T5M STD Port
12	AR-463T070	Man Propo. Valve, 100L/M, 3/4" Out
13	AR-1091320	Hose Tail, 3/4", T3M
14	AR-475552	Manual Pressure Relief Valve, 290 PSI
15	AR-1191525	Hose Barb Elbow, T5M 1"
16	CL-1600	Hose Clamp, 1" Stainless
17	HO-100200	Hose, 1"
18	AR-1191520	Hose Barb Elbow, T5M, 3/4"
19	HO-34200	Spray Hose, 3/4"
20	CL-1200	Hose Clamp, 3/4" Stainless
21	SS-4552934	Hose Barb Outlet, 3/4"
22	SS-455299034	Hose Barb, 3/4" x 90°
23	MD-9002439MD MD-9002580UX	744A Kit, 100 PSI w/o Regulator Valve 744A Kit, 100 PSI with Regulator Valve

TEEJET 433 2-WAY VALVES W/ ELECTRIC REGULATOR, STRAINER, ARAG MANUAL PROPORTIONAL VALVE

REF	PART NO.	DESCRIPTION
1*	SS-433EC2DA	433EC 2-Way Manifold Valves with Electric Regulator & Adapters
2	FS-M100SS	Nipple, 1" x 1/2" Stainless
3	TP-FC220+TP-200G	2" FP Flange Clamp & Gasket
4	AR-463T074	Manual Proportional Valve, 100 L/M, 1" Out
5	AR-1190525	Elbow, T5F 1" HB
6	SS-126ML450	Strainer, 1"
7	MD-9002439MD MD-9002580UX	744A Kit, 100 PSI w/o Regulator Valve 744A Kit, 100 PSI with Regulator Valve

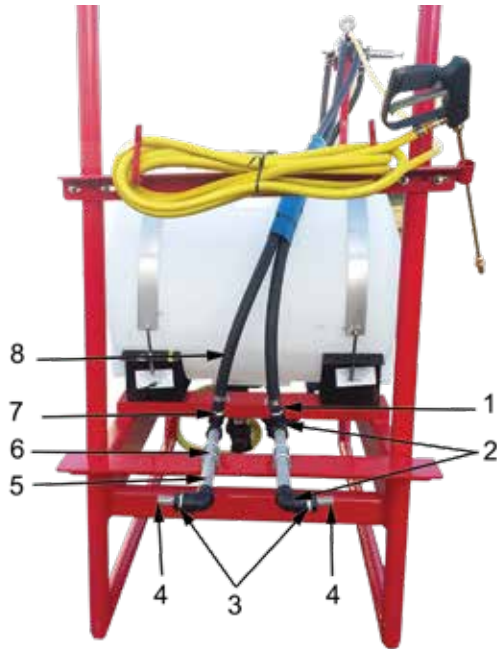


DUAL PRESSURE READ FOR INSIDE AND OUTSIDE THE CAB

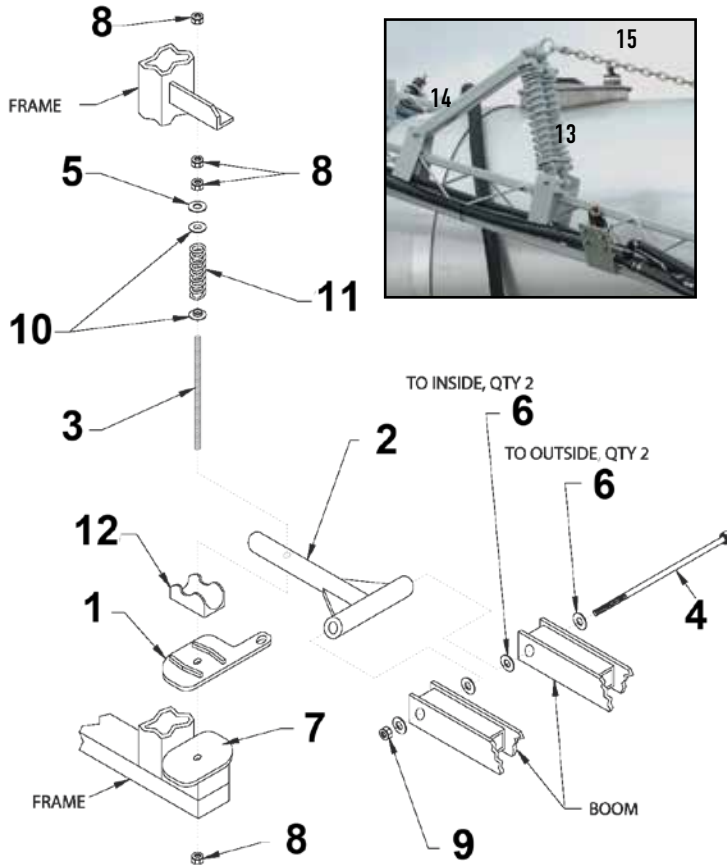
REF	PART NO.	DESCRIPTION
1*	GA-GG100	Liquid Pressure Gauge, 100 PSI
2	TP-TEE025	Tee, 1/4"
3	TP-NIP025SH	Nipple, 1/4"
4	SS-5845614	Gauge Port, 1/4"
5	744AKIT	744Kit, 1/8" Tubing for In-Cab PSI Reading
6	FS-SE14SS TP-RB025018	Street Elbow, 1/4" Stainless Steel Reducer, 1/4" x 1/8"

BOOM BUSTER

REF	QTY	PART NO.	DESCRIPTION
1	2	CL-1200	Hose Clamp, 3/4" Stainless
2	4	TP-EL07590	Pipe Elbow, 3/4", 90°
3		TP-RB075038	Reducer 3/4" x 3/8"
4	2	MS-BB187	Boom Buster Nozzle
5	4	BN-UB04	U-Bolt with Nut, 1" x 1/4"
6	2	NC-025094BE	Pipe, Threaded, Stainless, 3/4" x 12"
7	2	TP-HB075	3/4" MPT x 3/4" HB
8		HO-34200	Spray Hose, 3/4"



STANDARD & HEAVY DUTY TRIPOD, HYDRAULIC BOOMS 6 TO 12 ROW



HINGE AND SHOCK ASSEMBLY

STANDARD & HD TRIPOD, HYDRAULIC BOOMS 6-12 ROW

Ref	Qty STD	Qty HD	Part No.	Description
1	1	1	NC-015045BJRH	Boom Hinge, "P", LH
1	1	1	NC-015045BJLH	Boom Hinge, "P", RH
2	-	1	NC-015045FA	Tee Hinge, Boom Heavy Duty
3	1	1	BN-AT346	3/4" x 20", All Thread Rod
4	-	1	BN-HHG8588	Bolt, Hex Head, GR8, 5/8" x 8" Heavy Duty
5	1	1	BN-FW34	Flat Washer, 3/4"
6	-	4	BN-SSFW58	Flat Washer, 5/8" Heavy Duty, SS
7	1	1	PM-015045BKB	Boom Hinge, Bottom Plate
8	4	4	BN-SSHN34	SS, Nut, Hex Head, 3/4"-10UNC-2B
9	-	1	BN-LN58L9	Lock Nut, 5/8" L9
10	-	2	MS-TV103	Collar Spring, 3 Point Hitch
11	-	1	SR-2570	Spring, Boom
12	-	1	BL-CPL1603A	Spring Trip
13	1	1 2	MS-J610	Individual Shock for Tripod Boom 1 for single, 2 for double
13	1	1 2	SR-7041304	Shock Spring Kit: 2 springs/kit 1 for single, 2 for double (1 spring/shock/side)
14	1	1	NC-1331	Shock Arm Pull Type /3 Point Hitch
15	-	-	BC-140	Boom Chain, 1/4" for Pull Type/3 Point Hitch
15	-	-	BC-516	Boom Chain, 5/8" for Truck

AG BOOM PARTS, 6 TO 8 ROW, LIGHT DUTY

NC-1307	Breakaway Boom Hinge, 200 Gallon
BN-HH12312	Breakaway Boom Hex Head Bolt, 1/2" x 3 1/2"
BN-LN12	Breakaway Boom Nut
NC-1305	Boom Support Bracket, Center, 55-200 Gallon
NC-8212	Adjustable Valve Mount, 12 Row Boom
BC-316	Boom Chain, 3/8" for Ag Boom

PUMP MOUNTING BAR

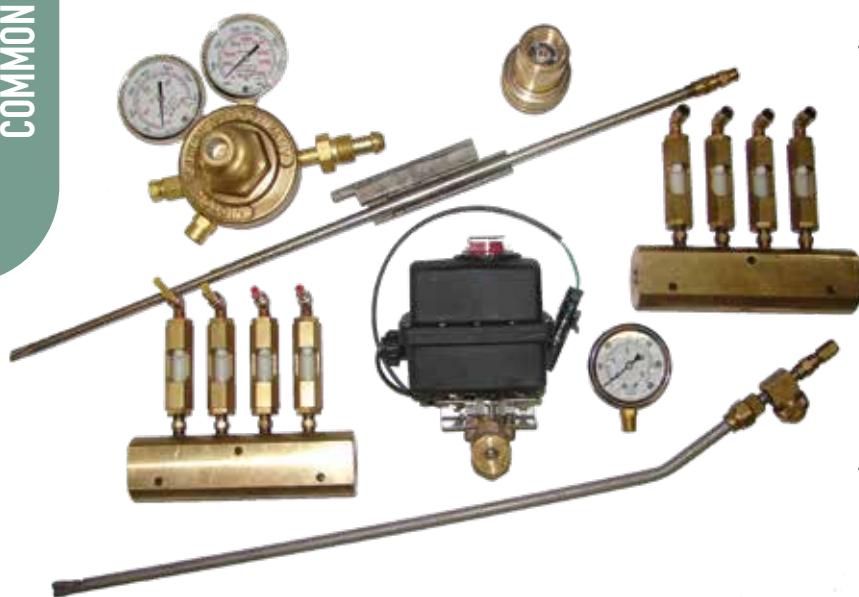
Part No.	Qty	Description
NC-025060A	1	Bracket PTO Pump Mounting
BN-HH51634	2	Hex Head Bolt, 5/8" x 3/4" (Pump Bar to Pump)
BN-HH516112	1	Hex Head Bolt, 5/8" x 1 1/2"
BN-FW516	4	Flat Washer, 5/8"
BN-LW516	3	Lock Washer, 5/8"
CA-PC316	16"	Small Boom Chain 3/8"
CA-3079T33	1	Spring Snap on Booms



Telone®, a product manufactured by Dow AgroSciences, is an industry leader in the control of nematodes in:



- **Vegetables:** tomatoes, peppers, melons, pole crops, strawberries
- **Field Crops:** cotton, peanuts, tobacco
- **Fruit and Nut Trees:** pecans, apples, peaches
- **Vineyards:** grapes and muscadines
- **Nursery Crops**



6-ROW BASIC TELONE PRESSURE KIT

Kit Part No.	Description
TL-KIT6RBASP	Maintenance parts (6-row pressurized system) that are often replaced. Kit Part No. Includes:
	1 - Manifold, 6 Port
	6 - Drops, 24 In, Stainless Steel
	6 - Ball Valve, 3/4 In, Brass
	1 - Hose Kit w/ Brass Quick Locks
	1 - Strainer Assembly
	1 - Cut-Off Valve, KZ, Electric
	1 - Bottle Regulation Kit
	1 - Pressure Gauge
	Miscellaneous Brass Fittings

Note: Hose length will vary by system and must be determined by customer. Hose is priced per foot which will vary the cost of the kit slightly.

TELONE PARTS SOLD SEPARATELY

Part No.	Description
TL-06000014	Release Valve
TL-07810543	Regulator
TL-07819135	Regulator
TL-808	Delrin Ball
TL-80812	Row Sight O-Ring/Viton
TL-84B50KO	Regulating Valve
TL-84B60AM1	On/Off Brass Valve
TL-DFM406	Turbine Meter, SS 3/4"
TL-MAN04	Manifold, 4 Port
TL-MAN06	Manifold, 6 Port
TL-PL18	Quick Coupler, 3/8"
TL-PLF18	Quick Lock, Female 3/8"
TL-REDTUBE	Red Tube
TL-RVS18	Sight View
TL-YELLOWTUBE	Yellow Tube

Telone is a Restricted Use Pesticide. In Florida, refer to the 24(c). Telone product specimen label for restrictions in certain countries. Telone is labeled under FIFRA 24(c) for nematode suppression in cotton and as an at-plant application only in the state of Georgia. Telone is not registered for sale or use in all states. Contact your state pesticide regulatory agency to determine if a product is registered for sale or use in your state. Always read and follow label directions. L12-018-016 (11/09) BR 010-32918 DAAGTLON9056 EPI305320



DIVERSE TANK SELECTION:
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TANKS

NORWESCO

**Sii SNYDER
INDUSTRIES, INC.**



Huge Variety of Cone Bottom Tanks



Premium and Heavy Weight
Vertical Storage Tanks



Flat Bottom, Utility
and PCO Tanks



Water Only
Vertical Storage Tanks



Large Variety of Horizontal and Elliptical Leg Tanks

Catalog shows only a small selection of tanks available. Many specialty tanks and other sizes not shown.

Norwesco manufactures an extensive line of tanks. More capacities than listed may be available, please contact a NC representative.

ALBANY - 1-800-624-7931

**NC NEWTON
CROUCH**

SEBRING - 1-877-605-0273

Not all tanks are manufactured at every Norwesco location so freight may vary.

GRIFFIN 1-800-241-1350

VERTICAL STORAGE TANKS

Premium Weight, White Part No.	Heavy Weight, Blue Part No.	Gallon Capacity	Diameter (in)	Overall Height (in)	Fill Opening (in)
45192	-	65	23	43	8
41861	-	100	28	43	8
40281	-	165	31	56	16
41856	-	200	30	72	8
47401	-	210	32	67	16
40213	-	300	35	79	16
40302	-	305	46	50	16
40148	40150	500	48	73	16
40023	-	550	67	44	16
40606	-	750	48	103	16
42241	-	850	48	118	16
40152	40154	1000	64	80	16
40070	40081	1100	87	53	16
40144	40146	1500	64	116	16
40235	40236	1550	87	67	16
40178	40241	2100	87	89	16
40051	40052	2500	95	91	16
40754	40755	3000	95	109	16
40164	40166	5000	102	152	16
40659	40661	6100	119	140	16
42315	42317	6500	120	147	16
47618	47620	6502	102	196	16
44395	44397	8400	120	187	16
47638	47640	10500	130	202	16
44015	44017	13000	144	198	22
43821	43823	15000	165	186	22
44009	44011	16000	144	167	22

Vertical storage tanks are most frequently used for bulk storage. Norwesco vertical tanks feature tie-down slots, built-in graduated gallon indicators, an offset fill opening and a self-vented, slosh-proof lid. See tank specifications for fittings, sizes, and location, if applicable. Specification drawings are available at norwesco.com. Many other tank sizes are available. Please inquire.



Norwesco's water tanks are manufactured using resins that meet FDA specifications to ensure safe storage of potable water. The black or dark green color limits light penetration which may reduce the growth of water-borne algae. These tanks are rated at 9 pounds per gallon, which means that they are for **WATER STORAGE ONLY**. They should not be used for chemicals, fertilizers or any other product. Water only tanks are also available in additional sizes. Please inquire.

BLACK/DARK GREEN VERTICAL WATER TANKS

Water Only, Black Part No.	Water Only, Dark Green Part No.	Gallon Capacity	Diameter (in)	Overall Height (in)	Fill Opening (in)	Bottom Fitting (in)	Top Fitting (in)
40702	40863	305	46	50	16	2	1.5
43101	43105	500	48	73	16	2	1.5
40703	40864	550	67	44	16	2	1.5
40704	40865	1100	87	53	16	2	1.5
40627	40866	1550	87	67	16	2	1.5
40631	40867	2500	95	91	16	2	1.5
40635	40868	3000	95	109	16	2	1.5
40641	40870	5000	102	152	16	2	1.5



Used primarily for transport and nursing applications, Norwesco's leg tanks feature molded-in legs that act as "baffles" to reduce sloshing. With the broadest leg tank line available, Norwesco manufactures a size that will fit your needs. Other tank capacities available. Many sizes available in black. Please inquire.



HORIZONTAL LEG TANKS AND BANDS

Premium Weight, White Part No.	Heavy Weight, Blue Part No.	Gallon Capacity	Diameter (in)	Overall Height (in)	Tank Length (in)	Fill Opening (in)	Outlet/ Drain (in)	Band Part No.	Band Qty	A (in)	B (in)	C (in)
45223	-	35	20	23	29	5	0.75	60520	2 opt	18.50	18.50	21.375
45191	-	65	23	26	43	5	0.75	61745	2 opt	22.00	22.00	26.5
40298	-	125	32	35	41	8	2	61744	2 opt	30.75	30.50	35
40299	-	225	38	41	49	8	2	60478	2 opt	36.50	36.00	42
40217	-	325	38	43	68	16	2	60478	2 opt	36.50	36.00	42
42016	-	425	49	54	60	16	2	60057	2 opt	47.75	46.25	52.25
40181	40193	525*	49	54	71	16	2	60057	2 opt	47.75	46.25	52.25
40180	40194	725**	49	54	101	16	2	60057	3 req	47.75	46.25	52.25
40089	40131	1025**	49	54	139	16	2	60057	4 req	47.75	46.25	52.25

* Requires full length support

** Requires full length support and bands

This elliptical tank style is designed to provide the greatest capacity with the lowest center of gravity, making it the best design available for transporting larger volumes. Norwesco elliptical tanks feature molded-in legs that act as "baffles" to reduce sloshing and provide increased stability during transport. All Norwesco elliptical leg tanks require full length bottom support as well as support bands. Other tank capacities are available. Many sizes available in black.



ELLIPTICAL LEG TANK AND BANDS

Premium Weight, White Part No.	Heavy Weight, Blue Part No.	Gallon Capacity	Width (in)	Overall Height (in)	Length (in)	Fill Opening (in)	Outlet/ Drain (in)	Band Part No.	Band Qty Required	A (in)	B (in)	C (in)
42339	-	335	48	33	71	16	2	63546	2	29	46.5	52.5
42353	-	535	57	39	80	16	2	63547	2	35	55.5	61.5
40191	40192	1035	79	54	89	16	2	60325	3	47.25	77	83
42927	42929	1335	66	55	126	16	2	63642	3	49.75	63.5	69.5
40387	40388	1635**	71	58	142	16	2	64191	4	51.75	68	74
40618	40623	2035**	84	56	142	16	2	63840	4	51.25	81.50	86.75
40547	40283*	2635**	90	72	140	16	3 / 2	60353	4	65.25	87.50	94
40686	40688*	3135**	88	80	150	16	3 / 2	62097	4	75.25	85.50	92
41267	41269*-	4035	92	75	192	16	3 / 2	62832	4	70.25	89.50	96

"Ladder Kit for Elliptical Tanks" on page 72

** FOB Griffin, Georgia

Norwesco manufactures an extensive line of tanks. More capacities than listed may be available, please contact a NC representative.



Not all tanks are manufactured at every Norwesco location so freight may vary.

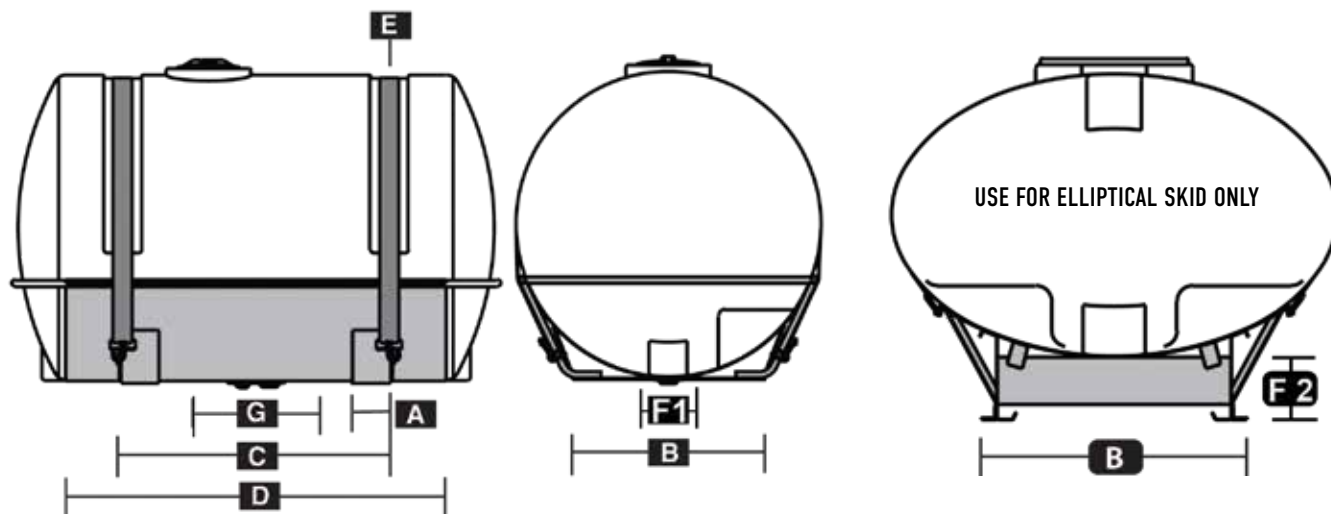
ALBANY - 1-800-624-7931

SEBRING - 1-877-605-0273

GRIFFIN 1-800-241-1350

All Norwesco applicator tanks feature a lid which threads directly into the fill-opening of the tank to help prevent sloshing or leaking of tank contents during transport or application. Norwesco saddles include polyester straps, buckles and bolts to secure tanks. Other tank sizes are available. Please inquire

Elliptical Applicator Tanks are designed for larger volume applicator needs. The Norwesco elliptical tanks feature a low profile design and a low center of gravity for excellent visibility in the field and increased stability when towed. A deep sump permits complete drainage. Other sizes available. All saddles and skid purchased separately.



APPLICATOR TANK AND SADDLE ASSEMBLIES

Premium Weight Part No.	Gallon Capacity	Tank Diameter (in)	Overall Height (in)	Tank Length (in)	Fill Opening (in)	Outlet/ Drain (in)	Saddle Part No.	A (in)	B (in)	C (in)	D (in)	E (in)	F1 (in)	G (in)
41799	30	23	26	21	5	0.75	60321	3	19	13.50	13.50	2x54	8	7.75
45193	55	23	27	34	5	0.75	60303	6	18.13	24	24	2x48	-	12
45105	85	23	26	52	5	0.75	60303	6	18.13	24	24	2x48	-	12
60204*	100	24	28	57	8	0.75	-							
45053	110	30	34	41	8	1.25 x 1.25	60315	12	23.75	28.75	34.75	2x72	-	10.75
40648	150	30	33	58	8	1.25 x 1.25	60315	12	23.75	28.75	34.75	2x72	-	10.75
45117	150	32	35	46	8	1.25 x 1.25	60315	12	23.75	28.75	34.75	2x72	-	10.75
45059	200	32	35	62	8	1.25 x 1.25	63019	6	24.88	36	60	2x96	8	13.25
45061	200	38	42	47	8	1.25 x 1.25	63020	6	24.75	34	42	2x96	-	13.25
40135	300	38	41	68	8	1.25 x 1.25	63021	6	24.75	34	60	3x96	8	12
40274	500	48	51	75	8	1.25 x 1.25	63023	6	30.13	42.50	60	3x132	8	12
40777*	150 Slim Line	28	41	50	8	1.25 x 1.25	No Saddle Available							
40780*	200 Slim Line	31	46	48	8	1.25 x 1.25								

ELLIPTICAL APPLICATOR TANK & SKIDS

Consist of black skids, appropriate bands, and hardware. Pre-cut hole designed for Norwesco sumps.

Premium Weight Part No.	Gallon Capacity	Tank Diameter (in)	Overall Height (in)	Sump Depth (in)	Tank Length (in)	Fill Opening (in)	Outlet/ Drain (in)	Skid Part No.	A (in)	B (in)	C (in)	D (in)	E (in)	F2 (in)	G (in)
41252	200	40	30	¾	66	8	1.25 x 1.25	63015	4	24	52	57	2x68	8	NA
40327	300	48	36	3	70	16	1.25 x 1.25	63016	4	34	46.25	54.25	2x76	8	NA
40328	500	57	44	2	82	16	1.25 x 1.25	63018	4	34	60	68	2x94	8	NA
40329	750	69	48	3	88	16	2	60371	4	38	69.50	78	2x112	8	NA
40330	1000	78	55	3	90	16	2	60372	4	46	60	72	2x130	8	NA

When complete drainage is necessary, these are the tanks of choice. They are designed primarily for use on fertilizer and chemical nurse trailers. All Norwesco drainable leg tanks require skids adapted to their use, full length bottom support as well as support bands. Other tank capacities are available. FOB MN & OH



DRAINABLE LEG TANK AND BANDS

Premium Weight, White Part No.	Heavy Weight, Blue Part No.	Gallon Capacity	Width (in)	Overall Height (in)	Length (in)	Fill Opening (in)	Outlet/ Drain (in)	Band Part No.	Band Qty Required	A (in)	B (in)	C (in)
40393	40395	1010*	47	58	140	16	2	60584 short 60585 long	2 2	46.25 48	45 45	51
41871	41872	1310	66	75	99	16	N/A	63282	3	64	64	70
40806	40808	1610	69	63	140	16	N/A	62434	4	49	66	72
43651	43652	2010	69	74	140	16	N/A	63846	4	59	66	72
41382	41383	2610*	90	79	140	16**	N/A	63044 short 63045 long	2 2	58 62	87.5 87.5	91.88 91.88
40822	40824	3210*	92	75	178	16**	N/A	62347 short 62348 long	2 2	56 60	89.5 89.5	92.75 92.75

* 1010, 2610, 3210 Gallon tank requires 4 bands total: 2 short & 2 long

**16" hinged lid

Designed to fit full-size, American made pickups, the 325 and 425 sizes have low profiles for better rear vision. They feature fill openings offset to the side of the tank for safety and easy access. A tough circular design adds strength. The 210 gallon tank fits both "mini" pickups and full-size models depending on tank position.

PICKUP TRUCK TANKS

Premium Weight, White Part No.	Gallon Capacity	Top Width/ Diameter (in)	Bottom Width/ Diameter (in)	Overall Height (in)	Fill Opening (in)	Outlet/ Drain (in)
40300	210	60 1/2	49 3/4	29	8	2
40160	325	62	49	33	8	2
40102	425	65	49	39	8	2



Norwesco manufactures an extensive line of tanks. More capacities than listed may be available, please contact a NC representative.

ALBANY - 1-800-624-7931

 **NEWTON CROUCH**

SEBRING - 1-877-605-0273

Not all tanks are manufactured at every Norwesco location so freight may vary.

GRIFFIN 1-800-241-1350

The spot sprayers feature threaded inserts on the bottom of the tank for mounting purposes, on one side for wand or gun placement and on the top for a 12 volt pump.

SPOT SPRAYER TANKS

Premium Weight Part No.	Gallon Capacity	Tank Diameter (in)	Tank Height (in)	Tank Length (in)	Fill Opening (in)
45115	14	14	15	31	5
62080	25	18	18	36	5



Inductor tanks are ideal for mixing applications. the conical bottom enables complete drainage. Stands, sold separately, are designed to provide necessary support for the inductor tanks during use and are supplied with all necessary hardware. See Norwesco.com for stand dimensions.

INDUCTOR TANKS AND STANDS

Pre-mium Weight Part No.	Inductor Stand Part No.	Gallon Capacity	Diam-eter (in)	Tank Height (in)	Fill Open-ing (in)	Outlet/ Drain (in)
60214	60313	15	19	23	8	2
42064	63397	15	24	21	16	2
42065	63397	30	24	28	16	2
45098	65517	35	23	29	8	2
62205	62204	60	31	32	16	2
42066	63397	60	24	42	16	2
47190	-	80	32	37	16	2



The loaf tanks are designed for a variety of applications. Its rectangular shape allows for placement within pickup beds or it may be mounted on various equipment trailers for use as a mobile water supply. This line of tanks may also be used in a variety of stationary storage applications. Not available FOB Griffin, GA.

LOAF TANKS

Premium Weight Part No.	Gallon Capacity	Width (in)	Overall Height (in)	Length (in)	Fill Opening (in)
43610	50	27	17	41	8
43611	100	27	30	41	8
43612	200	36	29	48	8
43613	300	42	30	63	8
43843	500	48	31	92	8



TANK REPAIR KIT

Part No.	Description
60221	Poly Welding Gun & Rod
61879	Poly Welding Rod, Natural/White 30'
64160	Poly Welding Rod, Black 30'

LADDER KIT FOR ELLIPTICAL TANKS

Part No.	Description
60354	Ladder for 2635, 3135 Gallon
62301	Ladder Adaptor Kit for 3135
63033	Ladder for 4035 Gallon

Norwesco offers a full range of cone bottom tanks designed for a variety of applications. The conical bottoms enable quick and complete drainage. As with all Norwesco tanks, the cone bottom tanks are molded of rugged, high density polyethylene and are both impact and chemical resistant. See chart below for availability of polyethylene or steel stands on certain tanks. Visit Norwesco.com for specification, stand availability and cone to ground clearances.

CONE BOTTOM TANKS

Premium Weight Part No.	Heavy Weight Part No.	Gallon Capacity	Tank Diameter (in)	Overall Height (in)	Slope	Fill Opening (in)	Outlet/ Drain (in)
60113	-	175 w/ Stand*	43	49	30°	16	2
62343	-	300 w/ Stand*	49	61	30°	16	2
62441	-	310 w/ Stand*	43	72	30°	8	2
40289	-	500 w/ Stand*	49	87	30°	16	2
40356	-	1050	72	75	20°	16	2
40359	-	1050 w/ Stand*	73	86	20°	16	2
40817	40819	1600	88	84	30°	16	2
40813	40815	1600 w/ Stand*	89	96	30°	16	2
40066	40129	2500	96	105	30°	16	2
40672	40674	2500 w/ Stand*	99	116	30°	16	2
40170	40172	3000	96	123	30°	16	2
40797	40799	3000 w/ Stand*	99	134	30°	16	2
45141	45242	3000	91	120	15°	16	2
40549	40316	5500	119	148	30°	16	3
40931	40933	6000	102	195	15°	16	3
40551	40409	7500	141	149	30°	16	3
44103	44105	10000	141	190	30°	16	3

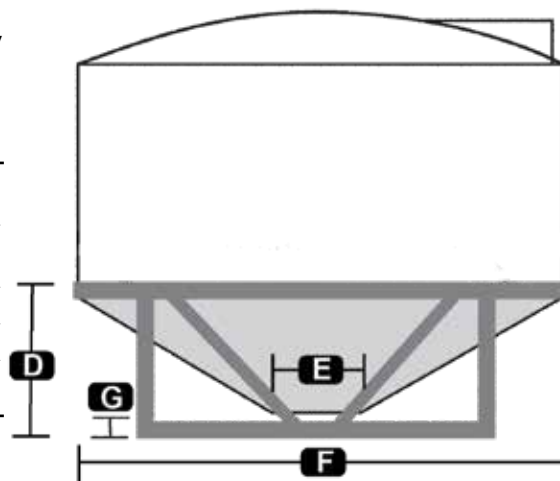
* Polyethylene Stand but Steel Stand Available



Norwesco cone bottom stands are manufactured from structural steel. Many other sizes available.

STEEL CONE BOTTOM STANDS

Stand Part No.	Tank Capacity	D (in)	E (in)	F (in)	G (in)
64076	2500 or 3000 30°	43	18	97	19
60358	5500 30°	45	11	119	14
62473	6000 15°	25	13	102	13
64070	7500 & 10000 30°	61	25	142	24



A multi-purpose tank, the PCO is well suited for nursery, agricultural and lawn care applications. These tanks feature self-supporting legs and do not require any saddles or steel supports. Flat spots are molded into both ends to provide mounting areas for agitation equipment. PCO tanks do not have sittings installed. Other sizes and smooth side wall options available.

PCO TANK

Premium Weight White Part No.	Gallon Capacity	Width (in)	Overall Height (in)	Length (in)	Fill Opening (in)
42834	50	19	23	38	8
42835	100	30	30	38	8
42836	150	37	29	48	16
42837	200	37	37	48	16
41381*	300*	36	37	69	16

* Smooth Sides



The Flat Bottom Utility tank are all purpose tanks. It is the perfect choice when looking for a tank to put in the bed of a pickup truck. The tank may be used with or without bands depending on application. Bands are sold separately. Other sizes available.

FLAT BOTTOM UTILITY TANK

Premium Weight White Part No.	Band Part No.	Gallon Capacity	Width (in)	Overall Height (in)	Length (in)	Fill Opening (in)	Outlet/Drain (in)	No. of Bands Optional	A (in)	B (in)	C (in)
42341	63351	50	19	23	38	8	1	2	19	18.5	23
42343	63552	100	27	29	43	8	1	2	24	25	29.5
42349	NA	110 low profile	35	18	48	5	1	NA	-	-	-
42345	63553	150	36	29	48	8	1	2	24	34.5	39
42347	63554	200	36	38	48	8	1	2	33	34.5	39



When needing tanks that provide complete drainage, these tanks are the perfect choice. The fitting is installed in the bottom of the tank.

TOTAL DRAIN TANKS

Premium Weight White Part No.	Gallon Capacity	Width (in)	Overall Height (in)	Length (in)	Fill Opening (in)	Outlet/Drain (in)
42321	5	11	18	11	8	1.25
42351	10	13	21	13	8	1.25
60521	12	14	15	18	5	0.75



These free standing tanks have been specifically designed with residential and commercial applications in mind. Its dimensions allow it to fit through conventional doorways. The design of these freestanding/self-supporting tanks eliminate the need for a steel support frame. Other sizes available.

FREE STANDING WATER ONLY TANK

Part No.	Gallon Capacity	Width (in)	Height (in)	Length (in)	Fill Opening (in)	Outlet/Drain Spec
42337	250	29	44	62	16	1.25
44330	300	29	50	66	16	1.25
43856	400	29	70	66	16	1.25
43616	500	31	70	74	16	1.25



FREE STANDING

These low profile tanks may be used for storage or transport. They are an excellent choice when height limitations are a factor and are the perfect height for putting under your house, cottage, or cabin. The following are FOB OH, OK, TX, MN.

SPECIALTY WATER HAULING TANKS

Part No.	Gallon Capacity	Width (in)	Height (in)	Length (in)	Fill Opening (in)	Outlet/Drain (in)
40756	1250 Low Profile	81	38	130	16	2
43011	1275 Low Profile	84	36	126	16	2
41392	1500 Low Profile	81	44	130	16	2
43013	1600 Low Profile	84	42	126	16	2
40912	2400 Box	90	53	150	16	2



LOW PROFILE



HORIZONTAL BOX

Norwesco's below-ground water cisterns feature the same rugged, ribbed design found in their septic tanks. Norwesco's water storage cisterns are produced with 100% virgin resin which meets FDA specifications for potable water. Where applicable, Norwesco's cisterns have been certified under ANSI/NSF Standard 61. Please inquire. The following are FOB Norwesco Griffin, Georgia.

LOW PROFILE WATER STORAGE CISTERNS

Part No.	Gallon Capacity	Width (in)	Height (in)	Length (in)	Man Hole Covering (Part No)
44827	225 Sphere	48 diameter	50	-	1-20" (63672)
44405	1175	60	51	127	2-20" (63672)
43549	1450	60	51	157	2-20" (63672)
43550	1750	69	51	157	2-20" (63672)



LOW PROFILE WATER CISTERN



LEGACY 600 GALLON CISTERN

LEGACY BELOW GROUND WATER CISTERN TANKS

Part No.	Gallon Capacity	Length (in)	Width (in)	Height (in)	Manhole Diameter (in)
41321	325 Sphere	-	54	54	20
41328	600	101	51	47	20
41329	1200	102	60	63	two 20
4130	1700	135	55	70	two 20



LEGACY 1700 GALLON CISTERN

Norwesco manufactures an extensive line of tanks. More capacities than listed may be available, please contact a NC representative.



SEBRING - 1-877-605-0273

ALBANY - 1-800-624-7931

Not all tanks are manufactured at every Norwesco location so freight may vary.

GRIFFIN 1-800-241-1350

PLASTICADE LIQUID - SURGE STABILIZERS

Designed to stabilize the movement of liquid cargo in partially loaded tankers during transport - eliminates the "wave" that can form inside the tank from the liquid surging back and forth when the truck stops or starts, preventing the dangerous push of the truck in the direction the wave is moving significantly improves the handling of the vehicle during acceleration, braking, and lane changes

FEATURES:

- Reduces tank stress
- 3 high strength plastic interlocking rings, creates a hollow core sphere
- Simple, no tool assembly
- No attachment to tank or retrofit
- Compatible with metal, poly, and fiberglass tanks
- Designed for tanks with or without fixed baffles or compartments
- Fits 16" manways or larger
- System packs flat for low cost shipping
- Not recommended for flammable or food grade liquids

Part Number	Description	US Gallons	Approximate # of Baffles	Displacement (lbs.)
TK-BBLSS1575	One Surge Stabilizer	250	26	48
		500	53	95
		600	63	115
		750	79	143
		1000	105	191
		1500	158	286



STAINLESS STEEL TANKS

Variety of steel tanks available. Please call Equipment Sales for information and details.
All steel tanks are custom.



MODEL 8690



NC MODEL 64 TRUCK WITH
1250 GALLON STEEL TANK



NC RAINWATER HARVESTING KITS

A 1000 square foot roof receiving one inch of rain twice a month can collect 1,248 gallons of water. That is 14,976 gallons of water per year. Harvested Rainwater can be used for landscaping, livestock, gardening, and other approved uses.



305 GALLON RAINWATER TANK KIT

- 305 gallon Norwesco Black or Dark Green Tank (height 50 in)
- Vented lid and strainer basket
- Bulkhead fitting installed in dome for overflow
- Ball valve assembly to use with garden hose.

500 GALLON RAINWATER TANK KIT

- 500 gallon Norwesco Black or Dark Green (height 73 in)
- Vented lid and strainer basket
- Bulkhead fitting installed in dome for overflow
- Ball valve assembly to use with garden hose.

OPTIONS:

- Various tank sizes available
- Pump assembly with 12V or 115V to ensure constant water pressure. Assembly has quick connect couplings for easy use with multiple tanks.
- Overflow fittings
- Filtering system
- Premium weight Norwesco Tank
- Flexible Gutter not included in kit.

Figure out how much water you could collect:

Length of Roof	x	Width of Roof	=	Your Roof size in sq ft	x	0.624 gal/ sq ft per inch of rain	=	Total Gallons Collected
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Standard Ball Valve with Hose Fitting



Strainer Basket



12 V Pump



115 V Pump



**NEWTON
CROUCH**

CAM LEVER COUPLERS

CAM LEVER COUPLERS

	Banjo Part No.	Norwesco Part No.	Size (in)
	A Couplers		
	TP-075A12	QC-050A	½
	TP-075A34	QC-075A	¾
	TP-100A	QC-100	1
	TP-125A	QC-125A	1 ¼
	TP-150A	QC-150A	1 ½
	TP-150A90	QC-150LA	1 ½, 90°
	TP-200A	QC-200A	2
	TP-200A90	QC-200LA	2, 90°
	TP-300A	QC-300A	3
	TP-400A	QC-400A	4
	B Couplers		
	TP-075B12	QC-050B	½
	TP-075B34	QC-075B	¾
	TP-100B	QC-100B	1
	TP-125B	QC-125B	1 ¼
	TP-150B	QC-150B	1 ½
	TP-200B	QC-200B	2
	TP-300B	QC-300B	3
	TP-400B	QC-400B	4
	C COUPLERS		
	TP-050C	QC-050C	½
	TP-075C	QC-075C	¾
	TP-100C	QC-100C	1
	TP-125C	QC-125C	1 ¼
	TP-150C	QC-150C	1 ½
	TP-150C90	QC-150LC	1 ½, 90°
	TP-200C	QC-200C	2
	TP-200C90	QC-200LC	2, 90°
	TP-300C	QC-300C	3
	D COUPLERS		
	TP-050D	QC-050D	½
	TP-075D	QC-075D	¾
	TP-100D	QC-100D	1
	TP-125D	QC-125D	1 ¼
	TP-150D	QC-150D	1 ½
	TP-150D90	QC-150LC	1 ½, 90°
	TP-200D	QC-200D	2
	TP-200D90	QC-200LD	2, 90°
	TP-300D	QC-300D	3
	TP-400D	QC-400D	4

CAM LEVER COUPLERS

	Banjo Part No.	Norwesco Part No.	Size (in)
	E COUPLERS		
	TP-050E	QC-050E	½
	TP-075E	QC-075E	¾
	TP-100E	QC-100E	1
	TP-125E	QC-125E	1 ¼
	TP-150E	QC-150E	1 ½
	TP-200E	QC-200E	2
	TP-300E	QC-300E	3
	TP-400E	QC-400E	4
	F COUPLERS		
	TP-050F	QC-050F	½
	TP-075F	QC-075F	¾
	TP-100F	QC-100F	1
	TP-125F	QC-125F	1 ¼
	TP-150F	QC-150F	1 ½
	TP-150F90	QC-150LF	1 ½, 90°
	TP-200F	QC-200F	2
	TP-200F90	QC-200LF	2, 90°
	G COUPLER CAPS FOR MALE ADAPTOR		
	TP-075DC	QC-075DC	½
	TP-075DC	QC-075DC	¾
	TP-100DC	QC-100DC	1
	TP-125DC	QC-125DC	1 ¼
	TP-150DC	QC-150DC	1 ½
	TP-200DC	QC-200DC	2
	TP-300DC	QC-300DC	3
	TP-400DC	QC-400DC	4
	H COUPLER PLUG FOR FEMALE ADAPTER		
	TP-075DP	QC-075DP	½
	TP-075DP	QC-075DP	¾
	TP-100DP	QC-100DP	1
	TP-125DP	QC-125DP	1 ¼
	TP-150DP	QC-150DP	1 ½
	TP-200DP	QC-200DP	2
	TP-300DP	QC-300DP	3
	TP-400DP	QC-400DP	4

NC Part Numbers may differ from Banjo's or Norwesco's.

STRAINERS

Y LINE STRAINER

Banjo Part No.	Norwesco Part No.	Pipe Size (in)	Mesh
LS05040	-	½ x ½	40
LS07540	61476	¾ x ¾	40
LS10040	-	1 x 1	40
LS12540	-	1-¼ x 1-¼	40
LS15020	61488	1-½ x 1-½	20
-	61489	1-½ x 1-½	40
LS15050	-	1-½ x 1-½	50
LS15080	61490	1-½ x 1-½	80
-	61494	2 x 2	40
LS20080	61495	2 x 2	80
LS30004	-	3 x 3	6
-	62340	3 x 3	40

2" MANIFOLD Y STRAINER

Banjo Part No.	Mesh
MLS20020	20
MLS20030	30
MLS20050	50
MLS20080	80
MLS300120	120

Mesh Size	Old Rib Color	ISO Color NEW!!!
6	White	White
8	Blue	Zinc Yellow
12	Black	Black
16	Gray	Brown Red
20	Beige	Beige
30	Yellow	Flame Red
40	Brown	Brown
50	Red	Gentian Blue
60	Orange	Gentian Blue
80	Blue	Zinc Yellow
100	Green	Traffic Green
120	Black	Black
150	White	Pure Orange

T LINE STRAINERS, NYLON, HYPRO

Part No.	Threads	Cap	Bowl	Screen	Mesh	Gasket
33500079F	¼" ID (F)	33510022	33510020	38000046	50 SS	17000065 Viton

T LINE STRAINER

Nowesco Poly Part No.	TeeJet Nylon Part No.	TeeJet Poly Part No.	TeeJet Poly Compact Part No.	Pipe Size (in)	Mesh
-	-	-	AA12212PP16	½ x ½	16
-	-	-	AA12212PP30	½ x ½	30
-	-	-	AA12234PP16	¾ x ¾	16
61465	-	-	-	¾ X ¾	40
-	AA12A34NYB50	AA124A34PP50	AA12234PP50	¾ X ¾	50
61470	-	-	-	1 x 1	40
-	AA124A1NYB50	AA124A1PP50	-	1 x 1	50
-	AA124114NYB50	-	-	1-¼ x 1-¼	50
-	AA124112NYB50	-	-	1-½ x 1-½	50

Compact Strainer, TeeJet

AA122 LINE STRAINERS & AA126PP FLUSH OUT STRAINER



Strainer Part No. add mesh size to complete	Pipe NPT F (in)	Material		Screen Part No.	Mesh Size
		Head	Bowl		
AA12212PP-____ AA122ML12PP-____ 3727012212PP-____	½	Poly	Poly	CP231741304SS CP231742304SS	16 30
AA12234PP-____ AA122ML34PP-____ 3727012234PP-____	¾	Poly	Poly	CP451023SSPP* CP451024SSPP* CP451025SSPP*	50 80 100
AA126MLF50-____	50 Series Flange	Poly	Poly	CP169031SSPP* CP169033SSPP* CP169034SSPP* CP169035SSPP* CP169036SSPP* CP169037SSPP*	16 30 50 80 100 200
AA126ML3-____	¾ NPT				
AA126ML4-____	1 NPT				
AA126ML5-____	1-¼" NPT			CP159411SSPP	16
AA126ML6-____	1-½" NPT	Poly	Poly	CP159412SSPP CP159413SSPP CP159414SSPP CP159415SSPP	30 50 80 100

* with polypropylene frame. Colors changed to ISO color chart in September 2016.
All strainers are available with BSPT connection

VALVES

MANIFOLD FLANGE BALL VALVES

	Banjo Part No.	Description	Max PSI	Pipe Size	Opening Thru Ball
	MV100CF	1" Flange Ball Valve	150	1"	1"
	MV200CF	2" Flange Ball Valve	150	2"	1 ½"
	MV220CF	2" Full Port Flange Ball Valve	150	2"	2"
	MV300	3" Std Flange Ball Valve	100	3"	2 ½"
	MV300CF	3" Full Port Flange Ball Valve	100	3"	3"

3-WAY MANIFOLD FLANGED BALL VALVE

	Banjo Part No.	Description	Max PSI	Flange Size	Opening Thru Ball
 T Handle	MV100BL	1" Valve, T Handle, 4 Bolt	100	1"	1"
	MV200BL	2" Valve, T Handle, 4 Bolt	100	2"	1 ½"
 Long Handle	MV220BL	2" Full Port Valve, Straight Handle, 4 Bolt	100	2"	2"
	MV300BL	3" Full Port Valve, Straight Handle, 6 Bolt	100	3"	3"

UNION BALL VALVES

	Banjo Part No.	Blue Handle Part No.	Pipe Size
	TP-UV050FP	60409	½"
	TP-UV075FP	60410	¾"
	TP-UV100FP	60411	1"
	TP-UV125FP	60412	1 ¼"
	TP-UV150FP	60413	1 ½"
	TP-UV200FP	60414	2"
	-	60415	3"

MULTI-PORT BALL VALVES

	Blue Handle Part No.	Description
	60417	¾" True Union
	60418	2" Multi-port

BOLT VALVES

4-Bolt Valve			
Banjo Part No.	Blue Handle Part No.	Port	Pipe Size
TP-V050	60540	Full Port	½"
TP-V075	60541	Full Port	¾"
TP-V100	60542	Std Port	1"
TP-V100FP	60543	Full Port	1"
TP-V125	61734	Std Port	1 ¼"
TP-V125FP	60527	Full Port	1 ¼"
TP-V150	60526	Full Port	1 ½"
TP-V200	60529	Std Port	2"
6 Bolt Valves			
Banjo Part No.	Part No.	Port	Pipe Size
TP-V200FP	60528	Full Port	2"
TP-V300FP	61720	Full Port	3"
TP-V400	62787	Full Port	4"

NOZZLE VALVES

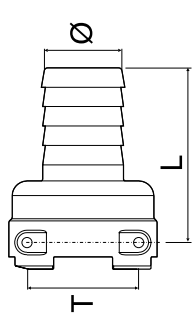
Banjo Part No.	Blue Handle Part No.	Yellow Handle Part No.	Description
TP-VA150	60544	61125	1 ½" Full Port Nozzle
TP-VA200	-	61126	2" Standard Port Nozzle
TP-VA200FP	60546	61127	2" Full Port Nozzle
TP-UVA100FP	60479	-	1" 45° Nozzle Valve

COMPACT VALVES

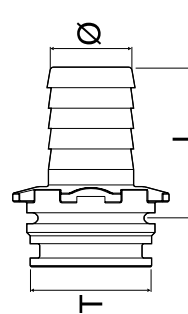
Banjo Part No.	Blue Handle Part No.	Yellow Handle Part No.	Description
TP-VSMT204FP	62286	62308	2" Full Port M x F
TP-V204FP	62287	62309	2" Full Port F x F
TP-VFMT204FP	62288	62310	2" Full Port M x M Coupler
TP-VSFMT-204FP	62314	62313	2" Full Port F x M Coupler
TP-VSMT200	62046	-	2" Standard Port M x F
TP-VSMT204FP	61876	-	2" Full Port M x F
TP-VSMT300	62047	-	3" Full Port M x F

ARAG NYLON FITTINGS W/ FORK COUPLINGS

STRAIGHT HOSE FITTING WITH FEMALE CONNECTOR

	Code	T	Ø	L	Fork Code
	109 0113	T1	13	45	10001
	109 0116		16	45	
	109 0310	T3	10	48	10003
	109 0313		13	48	
	109 0316		16	48	
	109 0320		20	53	
	109 0325	T4	25	53	10004
	109 0413		13	49	
	109 0416		16	49	
	109 0420		20	54	
	109 0425		25	54	
	109 0430	T5	30	59	10005
	109 0513		13	51	
	109 0516		16	51	
	109 0520		20	56	
	109 0525		25	56	
	109 0530	T6	30	61	10006
	109 0532		32	61	
	109 0535		35	63	
	109 0538		38	69	
	109 0540	T7	40	69	10007
	109 0625		25	60	
	109 0630		30	65	
	109 0632		32	65	
	109 0635	T8	35	67	10008
	109 0638		38	73	
	109 0640		40	73	
	109 0650		50	81	
	109 0740	T9	40	80	10009
	109 0745		45	82	
	109 0750		50	84	
	109 0752		52	84	
	109 0760	T10	60	99	10010
	109 0960		60	103	
	109 0975		75	113	

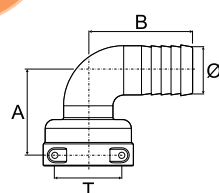
STRAIGHT HOSE FITTING WITH MALE CONNECTOR

	Code	T	Ø	L	O-Ring	
					EPDM	Viton
	109 1108	T1	8	30	G11056	G11056V
	1091110A		10	35		
	109 1113A		13	35		
	109 1310	T3	10	37	G11058	G11058V
	109 1313		13	39		
	109 1316		16	39		
	109 1320		20	44		
	109 1325		25	44		
	109 1330	T4	30	48	G11054	G11054V
	109 1413		13	40		
	109 1416		16	40		
	109 1420		20	45		
	109 1425		25	45		
	109 1430	T5	30	49	G11063	G11063V
	109 1513		13	40		
	109 1516		16	40		
	109 1520		20	45		
	109 1525		25	45		
	109 1530	T6	30	50	G11023	G11023V
	109 1532		32	50		
	109 1535		35	52		
	109 1538		38	58		
	109 1540		40	58		
	109 1625	T7	25	48	G11017 x2	G11017V x2
	109 1630		30	53		
	109 1632		32	53		
	109 1635		35	55		
	109 1638		38	61		
	109 1640	T8	40	61	G11067 x2	G11067V x2
	109 1740		40	62		
	109 1745		45	64		
	109 1750		50	69		
	109 1752		52	69		
	109 1760	T9	60	84		
	109 1960		60	86		
	109 1975		75	96		

STYLE		TYPE		SIZE		HOSE SIZE		PSI
109	Straight	1	Male	T1	⅜"			290
119	45° or 90°	0	Female	T3	¾"	10	⅜"	
				T4	1"	13	½"	
				T5	1 ¼"	20	¾"	
				T6	1 ½"	25	1"	
Example Code: 109 1310 • 109 = Straight • 1 = Male • T3 = ¾" • 10 = ⅜" Hose				T7	2"	32	1 ¼"	120
				T9	3"			70

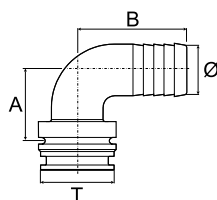
ARAG NYLON FITTINGS W/ FORK COUPLINGS

90° HOSE FITTING W/ FEMALE CONNECTOR



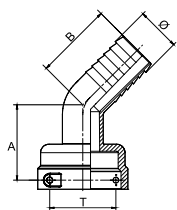
Code	T	Ø	A	B	Fork Code
119 0310	T3	10	34	35	10003
119 0313		13	34	45	
119 0316		16	34	48	
119 0320		20	34	53	
119 0325		25	43	53	
119 0413	T4	13	35	45	10004
119 0416		16	35	48	
119 0420		20	35	53	
119 0425		25	44	53	
119 0430		30	45	60	
119 0513	T5	13	37	45	10005
119 0516		16	37	48	
119 0520		20	37	53	
119 0525		25	50	57	
119 0530		30	50	74	
119 0532		32	50	74	
119 0535		35	55	80	
119 0538		38	55	85	
119 0540		40	55	85	
119 0625	T6	25	54	57	10006
119 0630		30	54	74	
119 0632		32	54	74	
119 0635		35	59	80	
119 0638		38	59	85	
119 0640	T7	40	59	85	10007
119 0740		40	63	85	
119 0745		45	69	83	
119 0750		50	84	92	
119 0752		52	84	92	
119 0760	T9	60	99	120	10009
119 0960		60	102	120	
119 0975		75	102	125	

90° HOSE FITTING WITH MALE CONNECTOR



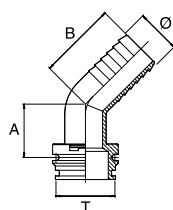
Code	T	Ø	A	B	O-Ring	
					EPDM	Viton
119 1310	T3	10	25	35	G11058	G11058V
119 1313		13	25	45		
119 1316		16	25	48		
119 1320		20	25	53		
119 1325		25	34	53		
119 1413	T4	13	25	45	G11054	G11054V
119 1416		16	25	48		
119 1420		20	25	53		
119 1425		25	34	53		
119 1430		30	35	60		
119 1513	T5	13	26	45	G11063	G11063V
119 1516		16	26	48		
119 1520		20	26	53		
119 1525		25	39	57		
119 1530		30	39	74		
119 1532		32	39	74		
119 1535		35	44	80		
119 1538		38	44	85		
119 1540		40	44	85		
119 1625	T6	25	42	57	G11023	G11023V
119 1630		30	42	74		
119 1632		32	42	74		
119 1635		35	47	80		
119 1638		38	47	85		
119 1640	T7	40	47	85	G11017 x2	G11017V x2
119 1740		40	48	85		
119 1745		45	54	83		
119 1750		50	59	92		
119 1752		52	59	92		
119 1760	T9	60	79	120	G11067 x2	G11067V x2
119 1960		60	84	120		
119 1975		75	84	125		

45° HOSE FITTING WITH FEMALE CONNECTOR



Code	T	Ø	A	B	Fork Code
119 2430	T4	30	47	55	10004
119 2525	T5	25	50	50	10005
119 2530		30	50	55	
119 2630	T6	30	54	55	10006
119 2635		35	54	55	
119 2640		40	54	60	
119 2750	T7	50	60	70	10007

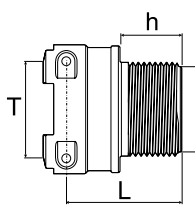
45° HOSE FITTING WITH MALE CONNECTOR



Code	T	Ø	A	B	O-Ring	
					EPDM	Viton
119 3525	T5	25	38	50	G11063	G11063V
119 3530		30	38	55		
119 3535		35	38	55		
119 3630	T6	30	41	55	G11023	G11023V
119 3635		35	41	55		
119 3640		40	41	60		
119 3760	T7	60	37	82	G11017 x2	G11017V x2

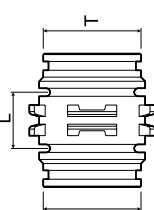
ARAG NYLON FITTINGS W/ FORK COUPLINGS

MALE THREADED WITH FEMALE CONNECTION



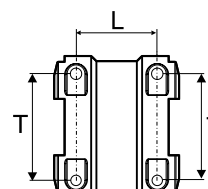
Code	T	F	L mm	h mm	Fork Code
249 033	T3	G ¾ M	40	22	10003
249 044	T4	G 1 M	41	22	10004
249 055	T5	G 1 ¼ M	46	24	10005
249 064	T6	G 1 M	46	22	10006
249 065		G 1 ¼ M	48	24	
249 066		G 1 ½	49	24	
249 067		G 2 M	47	27	
249 074	T7	G 1 M	51	22	10007
249 075		G 1 ¼ M	53	24	
249 076		G 1 ½ M	53	24	
249 077		G 2 M	59	27	

MALE/ MALE NIPPLE



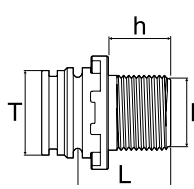
Code	T	L mm	O-Ring	
			EPDM	Viton
259 133	T3	17	G11058	G11058V
259 144	T4	19	G11054	G11054V
259 155	T5	20	G11063	G11063V
259 166	T6	28	G11023	G11023V
259 177	T7	28	G11017 x2	G11017V x2
259 199	T9	31	G11067 x2	G11067V x2

FEMALE/ FEMALE COUPLING



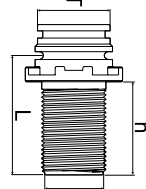
Code	T	L mm	Fork Code
259 033	T3	27	10003
259 044	T4	30	10004
259 055	T5	32	10005
259 066	T6	41	10006
259 077	T7	47	10007
259 099	T9	54	10009

MALE THREADED WITH MALE CONNECTION



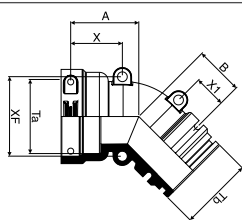
Code	T	F	L mm	h mm	O-Ring	
					EPDM	Viton
249 133	T3	G ¾ M	33	22	G11058	G11058V
249 144	T4	G 1 M	33	22	G11054	G11054V
249 155	T5	G 1 ¼ M	37	24	G11063	G11063V
249 166	T6	G 1 ½ M	42	24	G11023	G11023V
249 177	T7	G 2 M	45	27	G11017 x2	G11017V x2
249 199	T9	G 3 M	54	35	G11067 x2	G11067V x2

BULKHEAD MALE THREADED WITH MALE CONNECTION



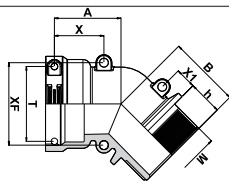
Code	T	F	O-Ring	
			EPDM	Viton
249 1551	T5	G 1 ¼ M	G11063	G11063V
249 1661	T6	G 1 ½ M	G11023	G11023V
249 1771	T7	G 2	G11017 x2	G11017V x2

45° FITTINGS WITH FEMALE/MALE FORK CONNECTION



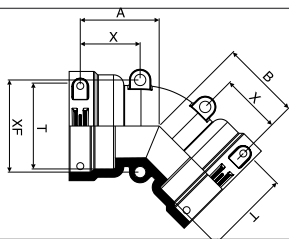
Code	Ta	a Fork	Tb	O-Ring b		X mm	X1 mm	A mm	B mm	XF mm
				EPDM	Viton					
129 555	T5	10005	T5	G11063	G11063V	31	20	41	30	48
129 566	T6	10006	T6	G11023	G11023V	35	22	46	33	54
129 577	T7	10007	T7	G11017 x2	G11017V x2	39	24	53	37	65
129 599	T9	10009	T9	G11067 x2	G11067V x2	44	25	64	45	95

45° FITTINGS MALE THREADED WITH FEMALE FORK CONNECTION



Code	T	M (BSP)	h mm	X mm	X1 mm	A mm	B mm	XF mm	a Fork Code
119 27B7	T7	G2	27	39	16.5	52.5	57	65	10007

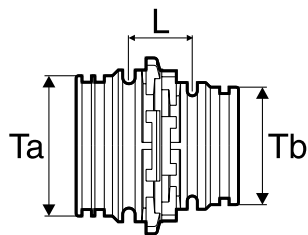
45° FITTING WITH FEMALE/FEMALE FORK CONNECTION



Code	T	X mm	A mm	B mm	XF mm	Fork Code
129 355	T5	31	41	41	48	10005
129 366	T6	35	46	46	54	10006
129 377	T7	39	53	53	65	10007
129 399	T9	44	64	64	95	10009

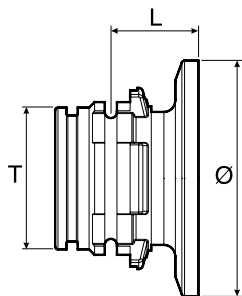
ARAG NYLON FITTINGS W/ FORK COUPLINGS

MALE/MALE ADAPTER



Code	L mm	Ta	O-Ring a		Tb	O-Ring b	
			EPDM	Viton		EPDM	Viton
259 134	18	T4	G11054	G11054V	T3	G11058	G11058V
259 145	19	T5	G11063	G11063V	T4	G11054	G11054V
259 156	23	T6	G11023	G11023V	T5	G11063	G11063V
259 167	27	T7	G11017 x2	G11017V x2	T6	G11023	G11023V
259 179	30	T9	G11067 x2	G11067V x2	T7	G11017 x2	G11017V x2

FLANGED MALE ADAPTER

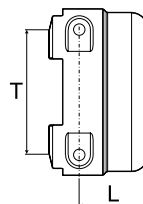


TIGHTENING CLAMP WITH SCREW AND SEAL

Code	Ø
2790 00.100	1" Full port
2790 00.200	2" Std. port
2790 00.220	2" Full port

BLANKING CAP

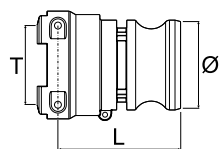
Code	L	Ta	Fork Code	Tb	Fork Code
259	29	T4	10004	T3	10003
259	31	T5	10005	T4	10004
259	37	T6	10006	T5	10005
259	44	T7	10007	T6	10006



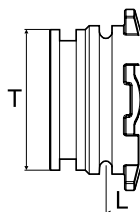
Code	T	L mm	Fork Code
219 010	T1	14	10001
219 030	T3	18	10003
219 040	T4	19	10004
219 050	T5	21	10005
219 060	T6	24	10006
219 070	T7	29	10007
219 090	T9	33	10009

CAMLOCK ADAPTER WITH FEMALE CONNECTION

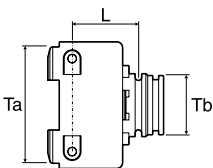
Code	T	Ø	L mm	Fork Code
181 06L	T6	1" ½	80	10006
181 07L	T7	2"	88	10007
181 09L	T9	3"	100	10009



MALE PLUG

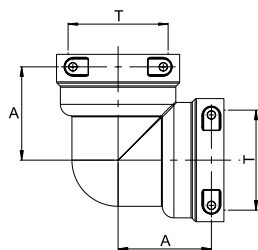


Code	L	Ta	a Fork	Tb	O-Ring b	
					EPDM	Viton
259 263	34	T6		T3	G11058	G11058V
259 267	40			T7	G11017 x2	G11017V x2



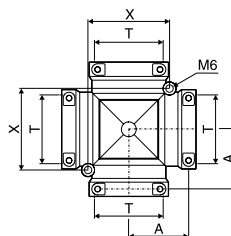
ARAG NYLON FITTINGS W/ FORK COUPLINGS

90° FEMALE/FEMALE ELBOW



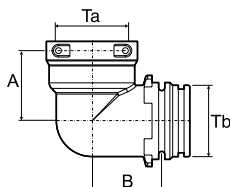
Code	T	A mm	Fork Code
129 033	T3	32	10003
129 044	T4	36	10004
129 055	T5	41	10005
129 066	T6	49	10006
129 077	T7	57	10007
129 099	T9	75	10009

90° 4-WAY FITTING WITH FEMALE CONNECTOR



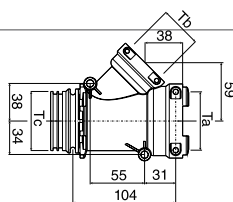
Code	T	A	X mm	Fork Code
159	T3	32	44	10003
159	T5	41	59	10005
159	T6	49	67	10006
159	T7	57	77	10007
159	T9	75	108	10009

90° FEMALE/MALE ELBOW



Code	A	B	Ta	a Fork Code	Tb	b O-Ring	
						EPDM	Viton
129 266	54	49	T6	10006	T6	G11023	G11023V
129 277	57	52	T7	10007	T7	G11017 x2	G11017V x2

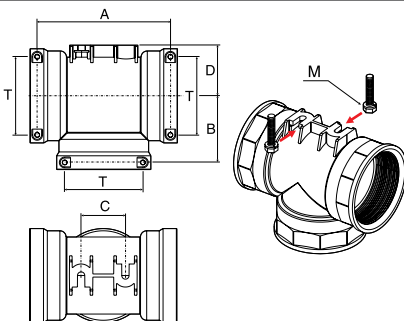
3-WAY MANIFOLD



Code	Ta	a Fork	Tb	b Fork	Tc	b O-Ring	
						EPDM	Viton
179 275	T7		T5		T7	G11017 x2	G11017V x2

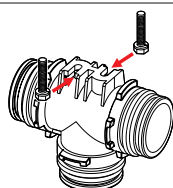
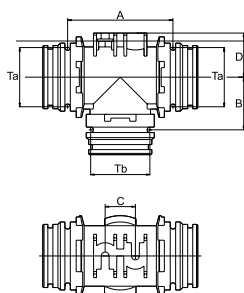
TEE FITTING WITH FEMALE CONNECTION

ARAG T-Shaped fittings with fork couplings can be fixed to a surface by means of two hexagonal-head screws to be fitted in the slots located on fittings upper side.



Code	T	A (mm)	B (mm)	C (mm)	D (mm)	M	Fork Code
139 033	T3	63	32	14	25	M5	10003
139 044	T4	71	36	14	27	M5	10004
139 055	T5	81	41	16	32	M6	10005
139 066	T6	97	49	24	35	M6	10006
139 077	T7	113	57	32	41	M6	10007
139 099	T9	150	75	50	57	M8	10009

TEE FITTING WITH MALE CONNECTION



Code	A (mm)	B (mm)	C (mm)	D (mm)	Ta	a O-Ring		Tb	b O-Ring	
						EPDM	Viton		EPDM	Viton
139 165	84	38	24	35	T6	G11023	G11023V	T5	G11063	G11063V
139 166	84	42	24	35	T6	G11023	G11023V	T6	G11023	G11023V

STYLE		TYPE		SIZE		HOSE SIZE	
109	Straight	1	Male	T3	3/4"	10	3/8"
119	45° or 90°	0	Female	T4	1"	13	1/2"
				T5	1 1/4"	20	3/4"
				T6	1 1/2"	25	1"
				T7	2"	32	1 1/4"
				T9	3"		

Example Code: 109 1310
 • 109 = Straight
 • 1 = Male
 • T3 = 3/4"
 • 10 = 3/8" Hose

POLYPROPYLENE FITTINGS

BUSHING REDUCING MPT X FPT

Banjo Part No.	Part No.	Male Thread (in)	Female Thread (in)
N/A	PF-RB3818	3/8	1/8
TP-RB038025	PF-RB3814	3/8	1/4
TP-RB050018	PF-RB1218	1/2	1/8
TP-RB050025	PF-RB1214	1/2	1/4
TP-RB050038	PF-RB1238	1/2	3/8
TP-RB075018	PF-RB3418	3/4	1/8
TP-RB075025	PF-RB3414	3/4	1/4
TP-RB075038	PF-RB3438	3/4	3/8
TP-RB075050	PF-RB3412	3/4	1/2
TP-RB100050	PF-RB10012	1	1/2
TP-RB100075	PF-RB10034	1	3/4
TP-RB125075	PF-RB11434	1-1/4	3/4
TP-RB125100	PF-RB114100	1-1/4	1
TP-RB150075	PF-RB11234	1-1/2	3/4
TP-RB150100	PF-RB112100	1-1/2	1
TP-RB150125	PF-RB112114	1-1/2	1-1/4
TP-RB200075	PF-RB20034	2	3/4
TP-RB200100	PF-RB200100	2	1
TP-RB200125	PF-RB200114	2	1-1/4
TP-RB200150	PF-RB200112	2	1-1/2
TP-RB300200	PF-RB300200	3	2

ELBOW STREET, FPTX MPT

Banjo Part No.	Part No.	Female Thread (in)	Male Thread (in)
TP-SL02590	PF-SE14	1/4	1/4
TP-SL05090	PF-SE12	1/2	1/2
TP-SL07590	PF-SE34	3/4	3/4
TP-SL10090	PF-SE100	1	1
TP-SL12590	PF-SE114	1-1/4	1-1/4
TP-SL15090	PF-SE112	1-1/2	1-1/2
TP-SL20090	PF-SE200	2	2

ELBOW, HB X HB

Banjo Part No.	Part No.	Hose Barb (in)	Hose Barb (in)
N/A	PF-EB1414	1/4	1/4
N/A	PF-EB3814	3/8	1/4
N/A	PF-EB3838	3/8	3/8
N/A	PF-EB1214	1/2	1/4
N/A	PF-EB1238	1/2	3/8
N/A	PF-EB1212	1/2	1/2
N/A	PF-EB5858	5/8	5/8
N/A	PF-B3458	3/4	5/8
N/A	PF-EB3434	3/4	3/4
TP-HBEL10090	PF-EB1010	1	1
N/A	PF-EB114	1-1/4	1-1/4
N/A	PF-EB112	1-1/2	1-1/2
N/A	PF-EB200	2	2

HOSE MENDER HB X HB

Banjo Part No.	Part No.	Hose Barb (in)	Hose Barb (in)
TP-HM025	PF-SHM14	1/4	1/4
TP-HM038	PF-SHM38	3/8	3/8
TP-HM050	PF-SHM12	1/2	1/2
N/A	PF-SHM1238	1/2	3/8
N/A	PF-SHM1258	1/2	5/8
N/A	PF-SHM58	5/8	5/8
TP-HM075	PF-SHM34	3/4	3/4
TP-HM100	PF-SHM100	1	1
TP-HM125	PF-SHM114	1-1/4	1-1/4
TP-HM150	PF-SHM112	1-1/2	1-1/2
TP-HM200	PF-SHM200	2	2

POLYPROPYLENE FITTINGS



HOSE BARB X MPT			
Banjo Part No.	Part No.	Male Thread (in)	Hose Barb (in)
-	PF-A1814	1/8	1/4
-	PF-A1838	1/8	3/8
TP-HB025	PF-A140	1/4	1/4
TP-HB025038	PF-A1438	1/4	3/4
TP-HB025050	PF-A1412	1/4	1/2
TP-HB038025	PF-A3814	3/8	1/4
TP-HB038	PF-A380	3/8	3/8
TP-HB038050	PF-A3812	3/8	1/2
TP-HB050025	PF-A1214	1/2	1/4
TP-HB050038	PF-A1238	1/2	3/8
TP-HB050	PF-A120	1/2	1/2
N/A	PF-A1258	1/2	5/8
TP-HB050075	PF-A1234	1/2	3/4
N/A	PF-A12100	1/2	1
N/A	PF-A3414	3/4	1/4
TP-HB075038	PF-A3438	3/4	3/8
TP-HB075050	PF-A3412	3/4	1/2
TP-HB075058	PF-A3458	3/4	5/8
TP-HB075	PF-A340	3/4	3/4
TP-HB075100	PF-A34100	3/4	1
TP-HB100075	PF-A10034	1	3/4
TP-HB100	PF-A100	1	1
TP-HB100125	PF-A100114	1	1-1/4
TP-HB125075	PF-A11434	1-1/4	3/4
TP-HB125100	PF-A114100	1-1/4	1
TP-HB150025	PF-A114	1-1/4	1-1/4
TP-HB125150	PF-A114112	1-1/4	1-1/2
TP-HB150125	PF-A112114	1-1/2	1-1/4
TP-HB150	PF-A112	1-1/2	1-1/2
TP-HB200	PF-A200	2	2

BALL CHECK VALVE			
Part No.	Pipe Thread (in)		PSI
PF-NBC10	1/16 M X 1/16 F		10

If you do not see a fitting or size that you need, please call a NC representative for further assistance. Fittings shown in catalog are the most commonly sold.

POLYPROPYLENE FITTINGS

NIPPLES MPT X MPT			
Banjo Part No.	Part No.	Male Pipe Thread (in)	Male Pipe Thread (in)
TP-NIP025SH	PF-M1400	¼	¼
TP-NIP038SH	PF-M3800	⅜	⅜
TP-RN050038	PF-M3812	⅜	½
TP-NIP050SH	PF-M1200	½	½
N/A	PF-M1214	½	¾
TP-NIP075SH	PF-M3400	¾	¾
N/A	PF-M3438	¾	1
TP-RN075050	PF-M3412	¾	1½
TP-NIP100SH	PF-M1000	1	1
TP-NIP124SH	PF-M1140	1¼	1¼
TP-NIP150SH	PF-M1120	1½	1½
TP-NIP200SH	PF-M2000	2	2

PLUG, MPT		
Banjo Part No.	Part No.	Male Thread (in)
N/A	PF-F1800	⅝
TP-PLUG025	PF-F1400	¼
TP-PLUG038	PF-F3800	⅜
TP-PLUG050	PF-F1200	½
TP-PLUG075	PF-F3400	¾
TP-PLUG100	PF-F1000	1
TP-PLUG125	PF-F1014	1¼
TP-PLUG150	PF-F112	1½
TP-PLUG200	PF-F200	2

BANJO MANIFOLD POLY FITTINGS



FLANGE X FLANGE 90°		
Part No.	Flange (in)	Flange (in)
M100CPG90	1	1
M200CPG90	2	2
M200CP-G90SH	2 Std.	2 Std.
M220CPG90	2 Full	2 Full
M300CPG90	3	3
M200CPG45	2	2" 45°



FLANGE X BARB, 90° ELBOW		
Part No.	Flange (in)	Barb (in)
M10075BRB90	1	¾
M100BRB90	1	1
	1	1-¼
	2 Std.	1
	2 Std.	1-¼
	2 Std.	1-½
M200BRB90	2 Std.	2
	2 Full	1-½
M220BRB90	2 Full	2
	3	2
M300BRB90	3	3

If you do not see a fitting or size that you need, please call a NC representative for further assistance. Fittings shown in catalog are the most commonly sold. Others are available.

TEE, FPT X FPT X FPT					
Banjo Part No.	Part No.	Female Thread (in)	Female Thread (in)	Female Thread (in)	
TP-TEE025	PF-TT14	¼	¼	¼	
TP-TEE050	PF-TT12	½	½	½	
TP-TEE075	PF-TT34	¾	¾	¾	
TP-TEE100	PF-TT100	1	1	1	
TP-TEE125	PF-TT114	1¼	1¼	1¼	
TP-TEE150	PF-TT112	1½	1½	1½	
TP-TEE200	PF-TT200	2	2	2	

BANJO MANIFOLD POLYPROPYLENE FITTINGS

	CLAMPS & ACCESSORIES		
	Banjo Part No.	Description	
	TP-FC100	1" Worm Screw Clamp	
	TP-FC200	2" Std. Worm Screw Clamp	
	TP-FC220	2" Full Worm Screw Clamp	
	TP-FC300	3" Worm Screw Clamp	
	TP-M100G	1" EDPM Gasket	
	TP-M100GV	1" Viton Gasket	
	TP-150G	2" Std. EPGM Gasket	
	TP-150GV	2" Std. Viton Gasket	
	TP-200G	2" Full EPGM Gasket	
	TP-200GV	2" Full Viton Gasket	
	TP-300G	3" EPGM Gasket	
	TP-300GV	3" Viton Gasket	
	TP-UB100	1" Mounting U-Bolt, SS	
TP-UB200	2" Std. Mounting U-Bolt, SS		
	COUPLING, 45°		
	Part No.	Flange	
	TP-M100CPG45	1" Flange	
	TP-M200CPG45	2" Std. Port	
	TP-M220CPG45	2" Full Port	
	COUPLINGS, FLANGE		
	Part No.	Flange (in)	
	TP-M100CPG	1 x 1	
	TP-M200CPG	2 x 2 Std.	
	TP-M220CPG	2 x 2 Full Port	
TP-M300CPG	3 x 3		
	REDUCING COUPLING, FLANGE		
	Part No.	Flange	Reducer (in)
	TP-M200100CPG	2" Std.	1
	TP-M220100CPG	2" Full	1
	TP-M220200CPG	2" Full	2 Std.
	TP-M300200CPG	3" Std.	2 Std.
TP-M300220CPG	3" Full	2 Full	
	CONNECT, MALE THREAD X FLANGE		
	Part No.	Flange (in)	Male Thread (in)
	TP-M100075MPT	1	¾
	TP-M100MPT	1	1
	TP-M100125MPT	1	1-¼
	TP-M200125MPT	2 Std.	1-¼
	TP-M200150MPT	2 Std.	1-½
	TP-M200MPT	2 Std.	2
TP-M220MPT	2 Full	2	
TP-M300MPT	3	3	

	CONNECT, FLANGE X FEMALE PIPE THREAD		
	Part No.	Flange (in)	Thread (in)
	TP-M100050FPT	1	½
	TP-M100075FPT	1	¾
	TP-M100FPT	1	1
TP-M200FPT	2 Std.	2 Std.	
	FLANGE X BARB		
	Part No.	Flange (in)	Barb (in)
	TP-M100075BRB	1	¾
	TP-M100BRB	1	1
	TP-M100125BRB	1	1-¼
	TP-M200100BRB	2 Std.	1
	TP-M200150BRB	2 Std.	1-¼
	TPM200125BRB	2 Std.	1-½
	TP-M200BRB	2 Std.	2
	TP-M220150BRB	2 Full	1-½
	TP-M220BRB	2 Full	2
	TP-M300220BRB	3	2
	TP-M300BRB	3	3
	FLANGE X MALE ADAPTER		
	Part No.	Adapter (in)	Flange (in)
	TP-M220A	2	2
TP-M300A	3	3	

	CROSS, FLANGE	
	Part No.	Description
	TP-M100CR	1" Flange Cross
	TP-M200CR	2" Std. Port Flange Cross
	TP-M220CR	2" Full Port Flanged Cross
TP-M300CR	3" Flanged Cross	

	TEE	
	Part No.	Description
	TP-M100TEE	1" Flange Tee
	TP-M101TEE	1" Flange Tee, Long
	TP-M200100TEE	2" Std. Port x 1" Flange Tee
	TP-M200TEE	2" Std Port Flange Tee
	TP-M220TEE	2" Full Port Flange
	TP-M300TEE	3" Flange Tee
	FLANGE WITH INDUCTOR	
	Part No.	Description
	TP-M200TEEV075	2" Std. Flange Tee with ¾" Inductor
	TP-M100075BRBV	1" Flange x Smooth ¾" Barb



**NEWTON
CROUCH**

HOSE & TUBING - ORDER BY THE FOOT

WIRE REINFORCED EPDM SUCTION/ DISCHARGE HOSE - Wire helix with textile ply wrapped with smooth cover - Safe for variety of liquid requiring elevated pressure - Sold by the foot. Specify length when ordering	Part No.	ID (in)	PVC BUMBLE BEE HD SUCTION HOSE - Used on NC Liquid Equipment - Flexible with good adhesion between soft wall and helix - Safe for water & light chemical solutions - Ridged exterior, not transparent	Part No.	ID (in)
	HO-SH114EPDM	1-1/4		HO-SHBB100	1
	HO-SH112EPDM	1-1/2		HO-SHBB114	1-1/4
	HO-SH200EPDM	2		HO-SHBB112	1-1/2
	HO-SH300EPDM	3		HO-SHBB200	2
	HO-SH400EPDM	4		1/2" Hose Part No.	PSI
EVA TUBING - Semi-translucent tubing made of ethyl vinyl acetate - Ideal for herbicide, pesticide, anhydrous ammonia applicator hose; vacuum hose, sight gauge	Part No.	ID (in)	AG SPRAY HOSE - Safe for water discharge in residential, agricultural, and industrial applications - NC commonly stocks 1/2", 3/4", 1-1/2", 2" 3/4" Hose used on NC liquid equipment between nozzles 2" hose used on NC liquid equipment on to protect booms	HO-12150	150PSI
	HO-12EVA	1/2"		HO-12300	300 PSI
	HO-34EVA	3/4"		HO-12600	600 PSI
	HO-38EVA	3/8"		HO-12800	800 PSI
CLEAR VINYL TUBING - High gloss clear tubing made of non-toxic crystal PVC - Ideal for water, weak chemicals and acids, sight gauge, drainage, air lines - NSF-51 and NSF-61 certified material	Part No.	ID (in)		3/4" Hose Part No.	PSI
	HO-CT14PVC	1/4		HO-34150	150 PSI
	HO-CT38PVC	3/8, 1/16" wall		HO-34200	200 PSI
	HO-CT38PVCTW	3/8, 1/8" wall		HO-34300	300 PSI
	HO-CT12PVC	1/2, 1/16" wall		HO-34600	600 PSI
	HO-CT12PVCTW	1/2, 1/8" wall		HO-34800	800 PSI
	HO-CT58PVC	5/8		1-1/2" Hose Part No.	PSI
	HO-CT34PVC	3/4		HO-122150	150
	HO-CT100PVC	1		2" Hose Part No.	PSI
	HO-CT112PVC	1-1/2		HO-200150	150
NYLON AIR LINE TUBING UNBRAIDED: Ideal for pneumatic lines, instrumentation systems, lubrication, fuel, oil, and refrigerant line	Unbraided Part No.	ID (in)	REINFORCED FERTILIZER SOLUTION HOSE - A reinforced, flexible suction/ discharge hose. - Resistant to diluted herbicides/ pesticides - EPDM tube with polyethylene helix and a high tensile fabric reinforcement	PART NO.	ID X OD
	DF-KO348	1/4		HO-SH114FERT	1 1/4" x
	Braided 1/16" wall Part No.	ID (in)		HO-SH112FERT	1 1/2" x
	HO-CT38BPVC	3/8		HO-SH200FERT	2" x
Braided: Ideal for material handling, water, light chemical solutions	HO-CT12BPVC	1/2		HO-SH300FERT	3" x
			HYDRAULIC HOSE - Variety of sizes used on NC dry equipment 1/2" commonly used on NC liquid equipment	Part No.	ID (in)
PVC LAY FLAT DISCHARGE HOSE - Used as a protective barrier for other hoses on NC Equipment - Resistant to abrasion and aging - Safe for water discharge	Part No.	ID (in)		HH-HFS204	1/4
	HO-200065PVC	2		HH-HFS208	1/2
	HO-30065PVC	3		HH-HFS212	3/4
				HH-HFS216	1
				HH-HFS220	1 1/4
PVC STANDARD DUTY SUCTION HOSE - Previously used on NC liquid equipment; now use PVC Bumble Bee because of ease of use - Flexible with good adhesion between soft wall and helix - Safe for water & light chemical solutions - Clear, smooth surfaces	Part No.	ID (in)			
	HO-SH34PVC	3/4			
	HO-SH100PVC	1			
	HO-SH114PVC	1-1/4			
	HO-SH112PVC	1-1/2			
	HO-SH200PVC	2			
	HO-SH300PVC	3			
	HO-SH400PVC	4			

CLAMPS & HOSE REEL

T BOLT HOSE CLAMP - Stainless steel bolt with silver plated nut to prevent seizing 360 degree sealing surface - Ideal for high torque applications - Many other sizes available 	Part No.	ID (in)	Diameter Range (in)	CLAMP Stainless steel housing 	Part No.	ID (in)
	TP-TC218	2	2.18-2.5		CL-0400	¼
	TP-TC331	3	3.31-3.62		CL-0600	¾
	TP-TC343	3	3.43-3.75		CL-0800	½
					CL-1200	¾
					CL-1600	1
					CL-3200	2
					CL-4000	2-½

Please call NC Parts for further information



TITAN MODELS 4312H, 4318H, 4312E, 4318E

- Heavy duty aluminum frame
- Super swivel with ball bearing support and grease fitting
- Aluminum Disks. PVC spool. Plated steel hardware. Carbon steel manifold
- 2- vane semi open impeller
- Spring loaded pin-lock - 4312H, 4318H
- Switch and solenoid are mounted on a SS plate and wired to 12 volt electric motor - 4312E, 4318E

TITAN MODEL 3012

- Economical steel reel
- Black powder coated
- Dimensionally identical to 4312H



SUMMIT FEATURES

- ½" or 1" inlet/outlet available
- Capacity up to 650' of ¾" hose
- All reels pressure treated, power coated

SM SERIES

- Steel crank handle with free turning hand grip

SME SERIES

- ½ HP 12 volt DC motor
- Pre-wired heavy duty push button switch
- Solenoid included & Mounted



TITAN 4312H



TITAN 4312E WITH
OPTIONAL HOSE GUIDE



SUMMIT SM SERIES

Full Frame Part No.	Electric Rewind Part No.	Hose ID in Inches					Inlet/ Outlet NPT	Spool Width (in)	Spool Dia. (in)
		¼	⅝	½	¾	1			
TITAN HOSE REELS									
4312H	4312E	425	300	200	150	--	½	12	6
4318H	4318E	625	450	325	225	--	½	18	6
3012	-	425	300	200	150	-	½	12	6
SUMMIT HOSE REELS									
HR-SM12	-	400	250	175	100	70	½ or 1	12	6
HR-SM60	-	175	100	75	40	--	½ or 1	6	6
HR-SM80	-	200	140	100	60	--	½ or 1	8	6
-	HR-SME18	600	400	300	150	125	½ or 1	18	6
		Length of Hose in Feet							