

LIFT TRUCK SPECIFICATIONS



QUANTUM

RT50 2-Wheel Drive
4-Wheel Drive

RT60 2-Wheel Drive
4-Wheel Drive

RT80 2-Wheel Drive
4-Wheel Drive



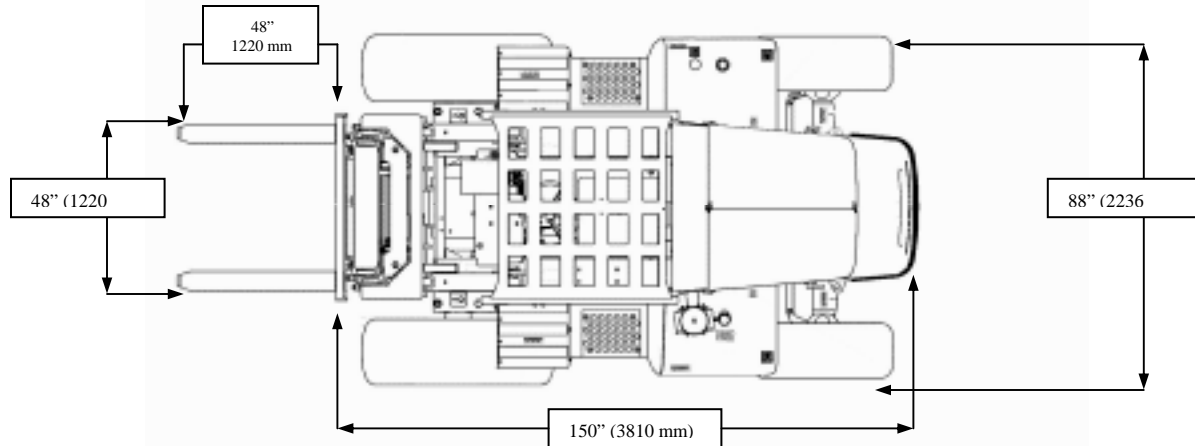
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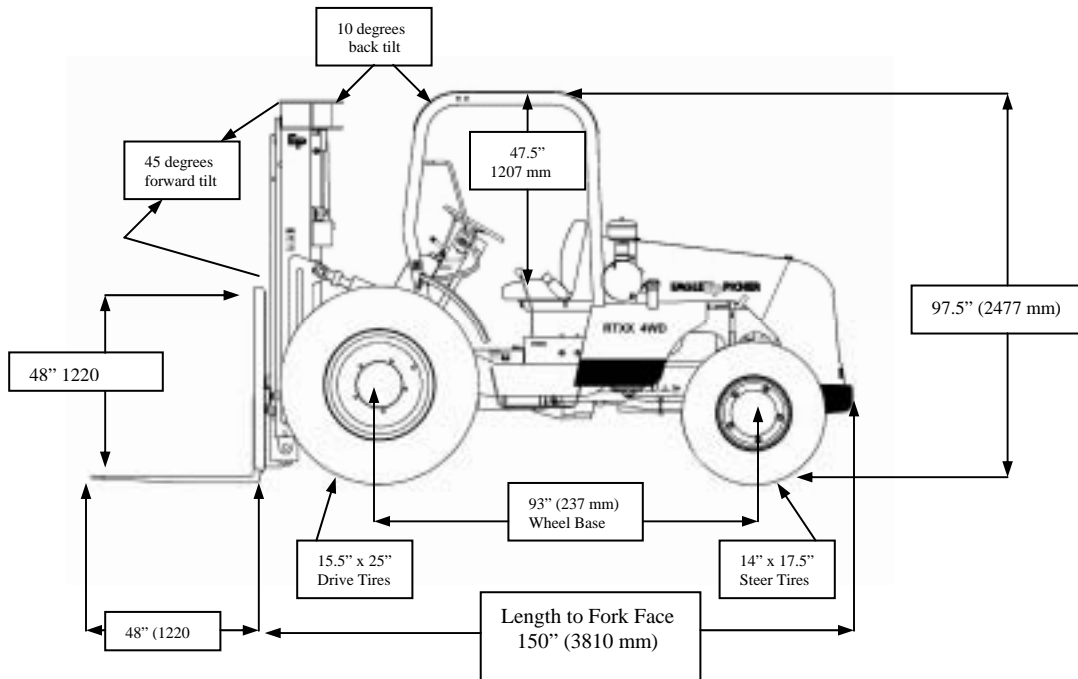
COMPONENT SPECIFICATIONS

RT50 / RT60 / RT80 2-WD / 4-WD DIMENSIONAL DATA



Truck under clearances:

- Mast – 11.5" (292 mm)
- Drive Axle – 17.5" (445 mm)
- Center of Wheel Base – 16" (407 mm)
- First Step – 20" (508 mm)
- Counterweight:
Lowest Point – 11.5" (292 mm)

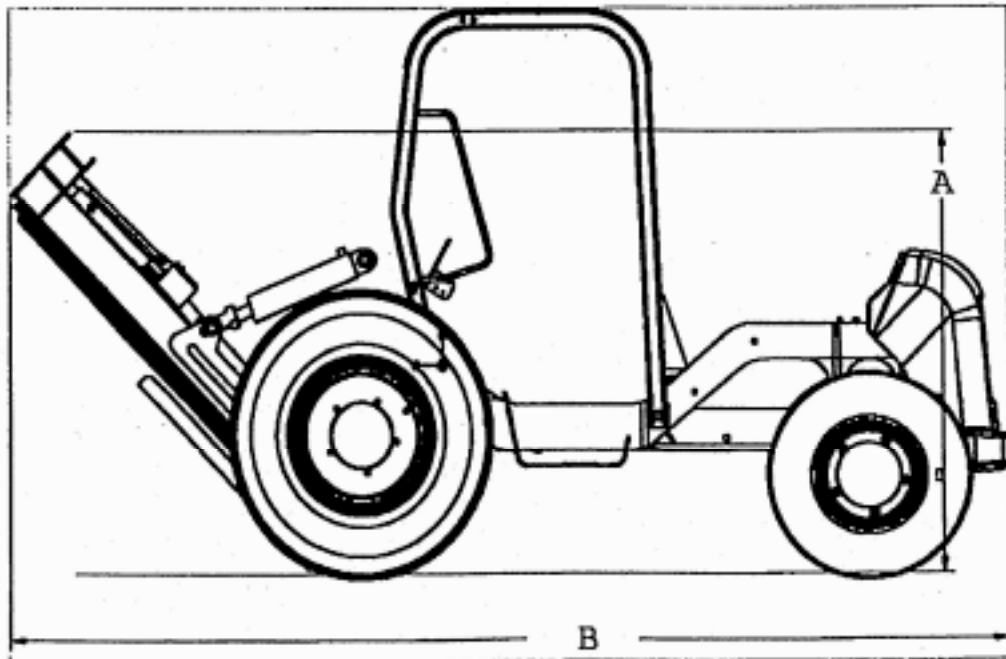


SHIPPING HEIGHTS

45 Degree Forward Tilt		"A" Dimension		"B" Dimension		Overhead Guard Dimension	
Model	Mast	in	mm	in	mm	in	mm
RT50	168 3-Stage	76.4	1939.7	183.5	4659.6	97.1	2466.7
RT50	216 3-Stage	87.7	2226.8	194.8	4947.2	97.1	2466.7
RT50	264 3-Stage	98.9	2514.2	206.1	5234.6	97.1	2466.7
RT60/80	120 2-Stage	84.2	2137.4	191.2	4857.7	97.1	2466.7
RT60/80	144 2-Stage	92.7	2353.1	199.7	5073.5	97.1	2466.7
RT60/80	168 2-Stage	101.1	2568.3	208.2	5288.7	97.1	2466.7
RT60/80	168 3-Stage	78.7	1999.6	185.8	4719.9	97.1	2466.7
RT60/80	216 3-Stage	90.1	2287	197.1	5007.3	97.1	2466.7
RT60/80	264 3-Stage	101.4	2574.3	208.5	5294.7	97.1	2466.7
RT60/80	312 3-Stage	112.7	2861.7	219.8	5582	97.1	2466.7
RT60/80	362 3-Stage	124.5	3161	231.6	5881.4	97.1	2466.7

"A" Height measured from Top Overhead Guard (tilted 45 degrees) to ground.

"B" Length of unit measured from Back of Counterweight to Front of Mast (tilted 45 degrees).



MAST PERFORMANCE & CAPACITY TABLE

Model	Mast MFH		Mast OAL		Mast Stages	Wheel Drive	Weight Approx.	Capacity	
	in	(mm)	in	(mm)				Ibs.	(kg)
RT502	120	3050	106	2695	2-Stage	2-WD	11,174	5,000	(2500)
	144	3660	118	2998	2-Stage	2-WD	11,324	5,000	(2500)
	168	4270	130	3302	2-Stage	2-WD	11,475	5,000	(2500)
	168	4270	96	2440	3-Stage	2-WD	12,680	4,200	(2100)
	216	5490	113	2872	3-Stage	2-WD	12,825	3,500	(1750)
	264	6710	128	3252	3-Stage	2-WD	13,109	3,000	(1500)
RT504	120	3050	106	2995	2-Stage	4-WD	11,494	5,000	(2500)
	144	3660	118	2998	2-Stage	4-WD	11,644	5,000	(2500)
	168	4270	130	3302	2-Stage	4-WD	11,795	5,000	(2500)
	168	4270	96	2440	3-Stage	4-WD	13,000	4,200	(2100)
	216	5490	113	2872	3-Stage	4-WD	13,145	3,500	(1750)
	264	6710	128	4252	3-Stage	4-WD	13,429	3,000	(1500)
RT602	120	3050	107	2720	2-Stage	2-WD	12,817	6,000	(3000)
	144	3660	120	3050	2-Stage	2-WD	12,968	6,000	(3000)
	168	4270	130	3305	2-Stage	2-WD	13,124	6,000	(3000)
	168	4270	99	2515	3-Stage	2-WD	13,750	5,200	(2600)
	216	5490	115	2925	3-Stage	2-WD	14,075	5,000	(2500)
	264	6710	131	3330	3-Stage	2-WD	14,400	4,400	(2200)
RT604	120	3050	107	2720	2-Stage	4-WD	13,137	6,000	(3000)
	144	3660	120	3050	2-Stage	4-WD	13,288	6,000	(3000)
	168	4270	130	3305	2-Stage	4-WD	13,444	6,000	(3000)
	168	4270	99	2515	3-Stage	4-WD	14,070	5,200	(2600)
	216	5490	115	2925	3-Stage	4-WD	14,395	5,000	(2500)
	264	6710	131	3330	3-Stage	4-WD	14,720	4,400	(2200)
RT802	120	3050	107	2720	2-Stage	2-WD	14,713	8,000	(4000)
	144	3660	120	3050	2-Stage	2-WD	14,864	8,000	(4000)
	168	4270	130	3305	2-Stage	2-WD	15,020	8,000	(4000)
	168	4270	99	2515	3-Stage	2-WD	15,646	7,500	(3750)
	216	5490	115	2925	3-Stage	2-WD	15,971	6,800	(3400)
	264	6710	131	3330	3-Stage	2-WD	16,296	6,200	(3100)
	312	7920	148	3760	3-Stage	2-WD	16,654	5,000	(2500)
	362	9195	164	4170	3-Stage	2-WD	17,028	3,300	(1650)
	362	9195	164	4170	3-Stage	4-WD	17,028	3,300	(1650)
RT804	120	3050	107	2720	2-Stage	4-WD	15,033	8,000	(4000)
	144	3660	120	3050	2-Stage	4-WD	15,184	8,000	(4000)
	168	4270	130	3305	2-Stage	4-WD	15,340	8,000	(4000)
	168	4270	99	2515	3-Stage	4-WD	15,966	7,500	(3750)
	216	5490	115	2925	3-Stage	4-WD	16,291	6,800	(3400)
	264	6710	131	3330	3-Stage	4-WD	16,616	6,200	(3100)
	312	7920	148	3760	3-Stage	4-WD	16,974	5,000	(2500)
	362	9195	164	4170	3-Stage	4-WD	17,348	3,300	(1650)
	362	9195	164	4170	3-Stage	4-WD	17,348	3,300	(1650)

Note: Any changes to Forklift such as Mast, Carriage, Forks (other than the Standard) and Attachments Requires a new Capacity Plate from the manufacturer. Reference ASME B56.6A-1994 Part II 5.2

RT50 / 60 / 80 2-WD & 4-WD SPECIFICATIONS

RT DRAWBAR PULL (2-WD / 4-WD)

<i>Gear</i>	<i>lbs.</i>	<i>From</i>	
1	13,750		Test
2	9,160		Calculated
3	4,860		Calculated
4	2,650		Calculated

RT GRADEABILITY (2-WD / 4-WD)

<i>Gear</i>	<i>Grade</i>	
1		67%
2		46%
3		24%
4		15%

TOP RT TRAVEL SPEEDS (2-WD / 4-WD)

<i>Gear</i>	<i>mph</i>	
1		3.5
2		5.5
3		10.0
4		18.0

REFILL CAPACITIES

Compartment or System	Measures	
	Quarts / Gallons	Metric
Radiator / Cooling System	3 quarts	(2.9 liters)
Brake System	1.26 quarts	(1.2 liters)
Engine Crankcase with filter	10 quarts	(9.5 liters)
Hydraulic & Power Steering System	26 gallons	(98 liters)
Transmission	3.17 gallons	(12 liters)
Drive Axle	6.07 gallons	(23 liters)
Steer Axle	3.5 gallons	(13 liters)
Drive and Steer Hubs	0.5 gallons	(1.9 liters)
Fuel Tank	26 gallons	(98 liters)

Subject to Change without Notice

-Tab 4-4-

COMPONENT SPECIFICATIONS



**COMPONENT
SPECIFICATIONS**



RT50 2WD
with optional Turf Tires,
Floodlights & Strobe

COMPONENT SPECIFICATIONS

VEHICLE SPECIFICATIONS

MODELS - RT50, RT60 AND RT80

DRIVE OPTIONS - 2- and 4-Wheel Drive

MAST / CARRIAGE - 2- or 3-Stage with Dual Cylinders, Dual Chains

FREE LIFT - 2- or 3-Stage Masts have 12" Free Lift

SIDE SHIFT- Entire Mast Side Shifts

LIFT CAPACITY - RT50: 5,000 lbs.
(168" 2-Stage Mast) RT60: 6,000 lbs.
RT80: 8,000 lbs.

ENGINE

Model Perkins 1104C-44 diesel, 4-Cylinder / Tier II Compliant
Horsepower 82 HP @ 2200 rpm
SAE Net Torque @ 1,400 RPM – 209 ft. lbs.
Low Idle 800 rpm
High Idle 2200 rpm **Caution: Do not tamper with High Idle rpm Setting! Doing so will void Perkins Engine Warranty!**

Displacement - 244 in
Net Engine HP - 82 HP
Maximum Net Torque - 213 ft/lbs.
Thermo. - Shut Off

TRANSMISSION

Transmission - Manual 4-Speed Forward / Reverse

CHASSIS

Chassis - Welded Monocoque design

ELECTRICAL

ELECTRICAL - 12 Volt system / Alternator Rating - 65 amp hours
150 AMP HR. Battery @ 80 degrees f
900 CCA @ 0 degrees f
860 CCA @ 32 degrees f.

Note: Battery Box Dimensions – 7.5" Wide x 13.2" Length

Floodlight Wattage – 55 watts

COMPONENT SPECIFICATIONS

SERVICE BRAKES

SERVICE BRAKES - Self adjusting oil-cooled five-plate disk;
Multi-plate / mineral oil immersed

PARKING BRAKE

PARKING BRAKE - Drive line disk brake, lever operated

HYDRAULIC SYSTEM

HYDRAULIC SYSTEM -

Open loop gear pump – 23 gpm @ 2200 rpm
Main Relief Valve Setting – 3,000 psi
Full Flow Filtration, Filter Surface Area – 476 in² / Hydraulic Oil Filter – 10 microns

HYDRAULIC PUMP – Beam Type / Sunstrand

Liters per Minute – (Flow) - 40 liters/minute (25 liters/minute – RT50 ONLY)

GENERAL INFORMATION

SIDE SHIFT - 3.8” Left / 3.8” Right

STEER AXLE OSCILLATION - 18”

TRAVEL SPEED - 18 mph

STEERING WHEEL ROTATION - 4 Turns Right / 5 Turns Left (Turns Lock to Lock)

HYDRAULIC SYSTEM PRESSURES

HYDRAULIC SYSTEM PRESSURES

Pump Capacity - 25 gpm @ 2200 rpm
System Pressure - 3,000 psi

Steering Circuit - 1,800 psi maximum
Mast Circuit - 3,000 psi maximum

VEHICLE DIMENSIONS AND WEIGHTS

OVERALL DIMENSIONS

Width	88”
Length to Fork Face	150”
Load Moment Constant (from center of front axle to fork face)	32.5”
Height to Top of Overhead Guard	97.5”
Seat Height	49”
Head Clearance	47.5”

Subject to Change without Notice

-Tab 4-8

COMPONENT SPECIFICATIONS

GROUND CLEARANCE

At Center of Wheel Base - 16"
Drive Axle - 17.5"
At Lowest Point - 11.5"
First Step - 20"

WHEEL BASE - 93"

TIRES

Drive - 15.5" x 25"
Manufacturer – Goodyear
Construction – Bias Nylon Cord
Ply Rating – 12 Ply

Steer - 14" x 17.5"
Manufacturer – Goodyear
Construction – Bias Nylon Cord
Ply Rating – 8 Ply

STEERING

STEERING - Hydrostatic Power Steering
Double Acting
Bore - 70.0 mm
Rod Diameter - 30.0 mm
Stroke - 238.0 mm

MAST

MAST FUNCTIONS –
Type Circuit – Open Loop, Manual Operation
Maximum System Pressure – 20700 kPa

CYLINDERS –
Lift – Single Acting

MAST TILT

MAST TILT - 8 Degrees Forward / 10 Degrees Back
(Tilt bypass allows Tilt to 45 Degrees for Transporting RT)
Double Acting
Bore - 114.3 mm
Rod Diameter - 50.8 mm
Stroke - 360.7 mm

RIGHT ANGLE STACKING

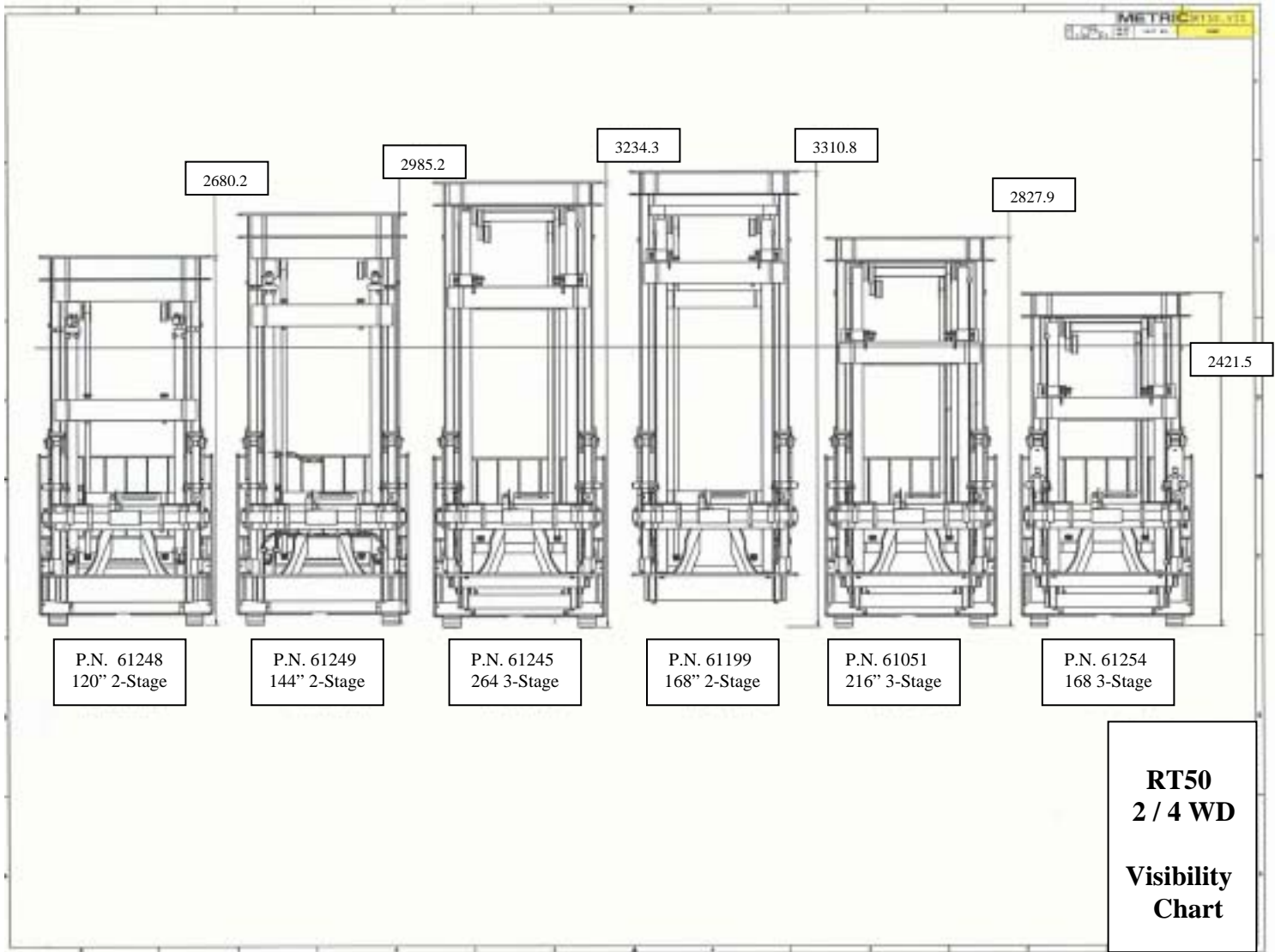
Basic minimum aisle for Right Angle Stacking (plus load length):
2-Wheel Drive - 222"
4-Wheel Drive - 228"

COMPONENT SPECIFICATIONS

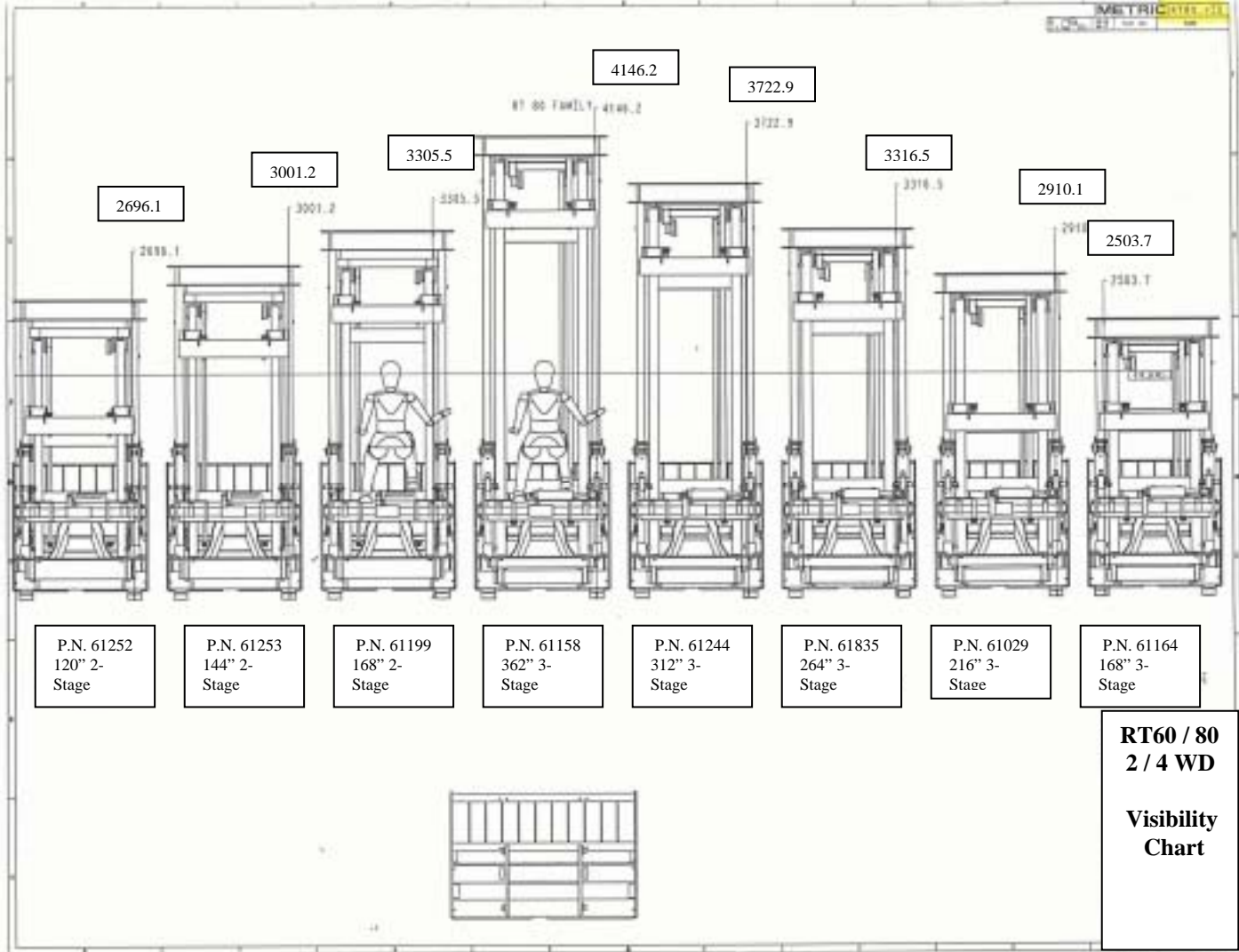


RT80 2-Wheel Drive

COMPONENT SPECIFICATIONS



COMPONENT SPECIFICATIONS



COMPONENT SPECIFICATIONS

RECOMMENDED SPARE PARTS LIST

Part Number	Description	Quantity
1201174	BATTERY - 12V	1
63741	FILTER - HYD	1
63001	FILTER - TRANS	1
EP056036	FILTER - ENGINE OIL	1
57248	FILTER - AIR - PRIMARY	1
57249	FILTER - AIR - SECONDARY	1
62260	FILTER - FUEL	1
63365	BELT - FAN	2
61120	HOSE - LOWER RADIATOR (LARGE)	1
61116	HOSE - LOWER RADIATOR (4 EXIT)	1
61123	HOSE - UPPER RADIATOR	1
61125	TEMP SWITCH - ENGINE COOLANT	1
61105	TEMP SWITCH - TRANS OIL	1
61111	PRESSURE SWITCH - TRANS OIL	1
6T1546	PRESSURE SWITCH - ENGINE OIL	1
63303	SWITCH - PARKING BRAKE	1
63113	KIT - PARKING BRAKE PADS	1
57023	THERMOSTAT	1
57022	THERMOSTAT O-RING	1
61865	RELAY	5
62574	FUSE - 10A	1
62575	FUSE - 15A	7
62665	BULB - FLOODLIGHT	3
63920	BULB - BRAKE & TURN	4
EP054558	SIDESHIFT CYL SEAL KIT	1
63678	LIFT CYL SEAL KIT (168" 2-Stage)	1
63537	STEER CYL SEAL KIT	1
EP054652	TILT CYL SEAL KIT	1
61789	MAST MOUNTING PIN BUSHING	2
60516	KIT - CONTROL VALVE SEALS (SECT.)	1
60517	KIT - CONTROL VALVE SEALS (SPG/CAP.)	1
60518	KIT - CONTROL VALVE SEALS (COMPL.)	1
60519	KIT - CONTROL VALVE SEALS (CHECK.)	1
60231	ACTUATOR - CONTROL VALVE	2
62521	DRAW LATCH - HOOD	2
63598	CAP - RESERVOIR TANK	1
314965	SHIMS - CHANNEL ROLLER	5
372723	SHIMS - CHANNEL ROLLER	5
352197	SHIMS - SIDE THRUST ROLLER	5
352198	SHIMS - SIDE THRUST ROLLER	5
372724	SHIMS - SIDE THRUST ROLLER	5
684726	SHIMS - CARRIAGE WEAR PAD	5
61351	THRUST WASHER - MAST SIDESHIFT	4
542755	TILT LIMIT CONTROL VALVE	1
63011	TRANS VALVE SOLENOID	1
57024	ALTERNATOR	1

COMPONENT SPECIFICATIONS



Right Angle View of RT60 2-Wheel Drive with Optional Harris Cab and Full Free Triple Mast & Side shift Carriage

NOTES:

COMPONENT SPECIFICATIONS



Rear Angle View of RT60 2-Wheel Drive
With Optional Harris Cab, Full Free Triple
Mast and Side shift Carriage

NOTES:

COMPONENT SPECIFICATIONS



Side View of RT60 2-Wheel Drive with
Optional Harris Cab, Full Free Triple Mast
and Side shift Carriage

NOTES:

COMPONENT SPECIFICATIONS



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COMPONENT SPECIFICATIONS



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