

STRONGARM®

GAS CHARGED LIFT SUPPORTS

SPECIFICATION GUIDE



GAS SPRINGS

**MOUNTING
HARDWARE**

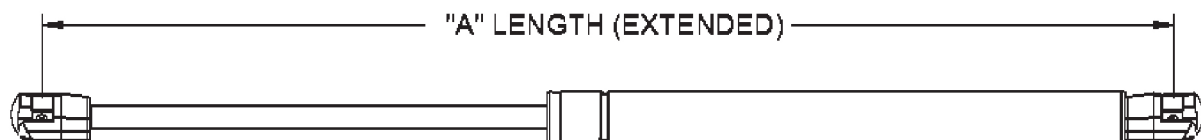
**UNIVERSAL
BRACKETS**

MULTI-PURPOSE SOLUTIONS

- Camper Shell Windows
- Canopies/Awnings
- Computer/Printer Covers
- Farm Machinery
- Garbage Containers
- Golf Carts
- Grills/Smokers
- Marine Hatches
- Overhead Bins
- RV-Windows/Doors
- Storage Containers
- Tanning Beds
- Tool Boxes
- Toy Boxes/Piano Benches
- Truck Tonneau Covers
- Utility Vehicles



Select the Extended Length of the Gas Spring



- Measure your existing gas spring from the center point of each end fitting – “A”
- Identify the connector type (eyelet/ball socket).
- Capture all markings on tube; specially noting pressure which is identified as xxx#’s or xxxN.
- Conversion from Newtons “N” to pounds “#” is (xxxN/4.45).
- Select part number that most closely matches information from specification chart.

What if you are missing some key information?

- Identify application type: tool box, truck cap, tonneau cover, sunbed, boat hatch, RV, etc.
- Identify the brand of application: Delta, Lear, Snug Top, Spectrum, Bayliner, Fleetwood, etc.
- Call StrongArm Technical Support Line at 888-565-9632.

MPS hardware completes the job.

- Designed with multiple attachment holes, and slotted mounting grooves
- Mix and match – perfect for new and retrofit applications
- Heavy gauge steel provides secure installation
- Can be purchased with or without lift supports

What makes StrongArm universal different?

- We have custom designed our parts to fit a range of lengths and pressures that maximize the efficiency of each size range; there is no need to have an exact match to an existing part.
- Choose a group size that most closely matches the length of your existing part number.
- Choose a pressure that is rounded up to the next pressure offering.
- Choose a connector that resembles your current connector type.

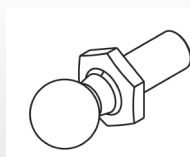
Important facts to remember:

- Gas springs can not always be compressed by hand.
- Replace in pairs where applicable.
- Install new lift supports in the same orientation as the ones being replaced.

BRACKETS

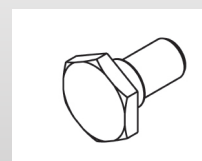


BALL STUD KITS



Ball stud kits; includes nuts and washers in two sizes 10 mm & 13 mm SA3000, SA3001

SHOULDER STUD KITS



Shoulder stud kits; includes nuts and washers SA3002

Part Number	Ext	Comp	Force	Shaft Connector
F4053	7.5	5.34	25	Ball Socket (Nylon) 10mm
F4054	7.5	5.34	35	Ball Socket (Nylon) 10mm
F4055	7.5	5.34	45	Ball Socket (Nylon) 10mm
F4056	7.5	5.34	65	Ball Socket (Nylon) 10mm
F6914	7.5	5.5	82	Ball Socket (Nylon) 10mm
F4057	10	6.6	25	Ball Socket (Nylon) 10mm
F4058	10	6.6	35	Ball Socket (Nylon) 10mm
F6915	10	6.75	45	Ball Socket (Nylon) 10mm
F4059	10	6.6	50	Ball Socket (Nylon) 10mm
F4060	10	6.6	60	Ball Socket (Nylon) 10mm
F6916	10	6.75	82	Ball Socket (Nylon) 10mm
F4061	10	6.6	85	Ball Socket (Nylon) 10mm
F4062	10	6.65	120	Ball Socket (Nylon) 10mm
F4671	10	6.75	26	Blade (.402 dia. hole)
F4036	10	6.75	40	Blade (.402 dia. hole)
F4672	10	6.75	51	Blade (.402 dia. hole)
F4037	10	6.75	60	Blade (.402 dia. hole)
F4673	10	6.75	71	Blade (.402 dia. hole)
F4038	10	6.75	80	Blade (.402 dia. hole)
F4674	10	6.75	90	Blade (.402 dia. hole)
F4039	10	6.75	100	Blade (.402 dia. hole)
F4698	10	6.75	110	Blade (.402 dia. hole)
E6917	11	7.42	26	Ball Socket (Nylon) 10mm
E6918	11	7.42	35	Ball Socket (Nylon) 10mm
E6919	11	7.42	72	Ball Socket (Nylon) 10mm
E4420	12	8.05	30	Ball Socket (Nylon) 10mm
E6920	12.05	7.9	35	Ball Socket (Nylon) 10mm
E4040	12	8.05	40	Ball Socket (Nylon) 10mm
E4488	12	8.05	54	Ball Socket (Nylon) 10mm
E4511	12	8.05	70	Ball Socket (Nylon) 10mm
E4041	12	8.05	80	Ball Socket (Nylon) 10mm
E4512	12	8.05	90	Ball Socket (Nylon) 10mm
E4042	12	8.05	100	Ball Socket (Nylon) 10mm
E4513	12	8.05	110	Ball Socket (Nylon) 10mm
E4125	13	8.4	25	Ball Socket (Nylon) 10mm
E4127	13	8.4	65	Ball Socket (Nylon) 10mm
E4128	13	8.4	100	Ball Socket (Nylon) 10mm
E4468	13.1	8.93	117	Ball Socket (Nylon) 10mm
E4129	13	8.4	155	Ball Socket (Nylon) 10mm
E6985	14	9	70	Ball Socket (Nylon) 10mm
E6922	14	8.75	123	Ball Socket (Nylon) 10mm
E6986	14	9	138	Ball Socket (Nylon) 10mm
E4043	14.5	9.25	25	Ball Socket (Nylon) 10mm
E4419	14.5	9.25	35	Ball Socket (Nylon) 10mm
E4464	14.5	9.25	40	Ball Socket (Nylon) 10mm
E4517	14.5	9.25	61	Ball Socket (Nylon) 10mm
E4044	14.5	9.25	90	Ball Socket (Nylon) 10mm
E4518	14.5	9.25	100	Ball Socket (Nylon) 10mm
E6923	15	9.4	30	Blade (.402 dia. hole)
E6924	15	9.34	26	Ball Socket (Nylon) 10mm

Part Number	Ext	Comp	Force	Shaft Connector
E6925	15	9.34	35	Ball Socket (Nylon) 10mm
E6926	15	9.34	45	Ball Socket (Nylon) 10mm
E6927	15	9.34	65	Ball Socket (Nylon) 10mm
E6928	15	9.38	130	Ball Socket (Nylon) 10mm
E6921	16	10	35	Ball Socket (Nylon) 10mm
D6929	16	10	65	Ball Socket (Nylon) 10mm
D6949	16	10	112	Ball Socket (Nylon) 10mm
D4423	17.2	11	30	Ball Socket (Nylon) 10mm
D4418	17.2	10.6	40	Ball Socket (Nylon) 10mm
D4514	17.2	10.6	55	Ball Socket (Nylon) 10mm
D4482	17.2	10.6	70	Ball Socket (Nylon) 10mm
D6931	17.2	10.6	85	Ball Socket (Nylon) 10mm
D4515	17.2	10.6	100	Ball Socket (Nylon) 10mm
D4516	17.2	10.6	125	Ball Socket (Nylon) 10mm
D6930	17.2	10.6	145	Ball Socket (Nylon) 10mm
D6950	17.56	10.81	180	Blade (.340 dia. hole)
D6932	18.5	11.25	30	Ball Socket (Nylon) 10mm
D6933	18.5	11.25	45	Ball Socket (Nylon) 10mm
D6934	18.5	11.25	60	Ball Socket (Nylon) 10mm
D6935	18.5	11.25	75	Ball Socket (Nylon) 10mm
D6936	18.5	11.25	96	Ball Socket (Nylon) 10mm
D6937	18.5	11.25	115	Ball Socket (Nylon) 10mm
D6948	19.12	11.7	112	Ball Socket (Nylon) 10mm
D4317	19.25	10.8	0	None
D4247	19.7	11.8	51	Ball Socket (Nylon) 10mm
D4248	19.7	11.8	65	Ball Socket (Nylon) 10mm
D6938	19.7	11.8	75	Ball Socket (Nylon) 10mm
D4279	19.7	11.8	95	Ball Socket (Nylon) 10mm
D4280	19.7	11.8	151	Ball Socket (Nylon) 10mm
D6961	20	12	150	Ball Socket (Nylon) 10mm
C6947	23	14	112	Ball Socket (Nylon) 10mm
C6940	26	15.1	60	Ball Socket (Nylon) 10mm
C6941	26	15.1	80	Ball Socket (Nylon) 10mm
C4567	26.32	16.1	85	Ball Socket (Steel) 13mm
B6942	28	16.8	96	Ball Socket (Steel) 13mm
B6943	28	16.8	115	Ball Socket (Steel) 13mm
B6944	28	16.8	145	Ball Socket (Steel) 13mm
B6980	28	16.8	260	Ball Socket (Steel) 13mm
B6951	28.62	20.6	184	Ball Socket (Nylon) 10mm
B4571	28.9	21.7	70	Ball Socket (Nylon) 10mm
B4570	29.05	25.2	114	Ball Socket (Nylon) 10mm
B4568	29.5	17.5	85	Ball Socket (Steel) 13mm
A4281	35.25	19.9	84	Ball Socket (Nylon) 10mm
SA3000				10mm Ball Stud Kit
SA3001				13mm Ball Stud Kit
SA3002				Shoulder Stud Kit
SA3100				3 Hole Bracket
SA3101				2 Hole Bracket
SA3102				Flush Mount Bracket

TOOLBOX REPLACEMENT LINE

Part Number	SA Number	Ext	Comp	Force	End Fitting
CONTICO/TRADESMAN					
0863UC	N/A	12.8	8.1	30	10mm Ball Socket
3332PC	F6915	10	7	40	10mm Ball Socket
5511RI	F6915	10	7	40	10mm Ball Socket
6083RK	E4128	13.1	8.6	58	10mm Ball Socket
7495QQ	F4060	10	6.7	63	10mm Ball Socket
7835PB	F6915	10	7	40	10mm Ball Socket
7981IM	F6915	10	7	40	10mm Ball Socket
CONTINENTAL					
4325QI	F4673	10	6.9	69	10mm Ball Socket
7292SK	F6915	10	7	40	10mm Ball Socket
8321QX	F4673	10	6.9	69	10mm Ball Socket
DEE ZEE					
4409ti	F6915	10	7	40	10mm Ball Socket
4411tp	F4673	10	6.9	69	10mm Ball Socket
DELTA					
0305UJ	F6916	10	6.9	80	10mm Ball Socket
1518UU	E6918	11	7.2	35	10mm Ball Socket
3901TV	E6917	11	7	25	10mm Ball Socket
3904TG	E6180	10.8	7.3	71	10mm Ball Socket
7921SI	E4127	13.1	8.6	58	10mm Ball Socket
8096SX	N/A	12.8	9.1	130	10mm Ball Socket
8097SS	E4126	13.1	8.6	58	10mm Ball Socket
8767SO	E4539	13.1	9	121	10mm Ball Socket
8979SL	F6915	10	7	40	10mm Ball Socket
9008SF	F6915	10	7	40	10mm Ball Socket
9009SA	F6915	10	7	40	10mm Ball Socket
9022SX	F6915	10	7	40	10mm Ball Socket
9023SS	F6915	10	7	40	10mm Ball Socket
10229	F4671	10	7	25	Eyelets
10079	F4672	10	7	45	Eyelets
10078	F4673	10	7	60	Eyelets
10088	F4674	10	7	80	Eyelets
10159-01	E4129	13	9.5	150	10mm Ball Socket
10159-02	E4128	13	9.5	97	10mm Ball Socket
10159-03	E4126	13	9.5	50	10mm Ball Socket
10159-04	E4127	13	9.5	60	10mm Ball Socket
10159-05	D4449	17.2	11	120	Eyelets
KNAACK					
1205IC	D4886	17.1	10.9	22	10mm Ball Socket
1575EJ	E4420	12	8.5	27	10mm Ball Socket
1591ER	D4423	17.2	11	27	10mm Ball Socket
2146BA	D4423	17.2	11	27	10mm Ball Socket
3148MT	E6533	12.4	8.4	85	10mm Ball Socket
3268PP	N/A	12.8	8.8	73	10mm Ball Socket
3355HH	D4423	17.2	11	27	10mm Ball Socket
3471HI	D4418	17.2	11	43	10mm Ball Socket
4197LR	D4886	17.1	10.9	22	10mm Ball Socket

Part Number	SA Number	Ext	Comp	Force	End Fitting
KNAACK (Continued)					
5079KW	D4418	17.2	11	43	10mm Ball Socket
647152	N/A	12.8	8.8	73	10mm Ball Socket
647160	D6930	17	10.3	146	10mm Ball Socket
647179	D6930	17	10.3	146	10mm Ball Socket
7381IA	E4420	12	8.5	27	10mm Ball Socket
7387IY	E4420	12	8.5	27	10mm Ball Socket
7389IO	E4488	12	8.5	54	10mm Ball Socket
7391IV	E4488	12	8.5	54	10mm Ball Socket
7467IC	E4040	12.5	8.4	35	10mm Ball Socket
7468IY	E4488	12.5	7.9	49	10mm Ball Socket
7469IT	E4511	12.4	7.7	67	10mm Ball Socket
7472IV	E4511	12.4	7.7	67	10mm Ball Socket
7473IQ	E4128	12.7	8.6	101	10mm Ball Socket
748307	E6533	12.4	8.4	85	10mm Ball Socket
7577IQ	D4886	17.1	10.9	22	10mm Ball Socket
7856IM	E4420	12.2	11	27	10mm Ball Socket
8232IY	D6930	17	10.3	146	10mm Ball Socket
8233IT	D6930	17	10.3	146	10mm Ball Socket
864137	E4040	12.5	8.4	35	10mm Ball Socket
SNAP-ON					
1585ED	E4464	14.5	9.5	43	10mm Ball Socket
1586EZ	E4464	14.5	9.5	43	10mm Ball Socket
1592EM	D4418	17.2	11	43	10mm Ball Socket
7088KF	E6604	14	9	26	10mm Ball Socket
752819	E6921	15.9	9.5	34	10mm Ball Socket
754722	E6604	14	9	26	10mm Ball Socket
8264IX	E6604	14	9	26	10mm Ball Socket
8267II	E6604	14	9	26	10mm Ball Socket
8268ID	N/A	14	8.6	65	10mm Ball Socket
STELLAR					
0696UK	E4420	12	8.5	27	10mm Ball Socket
0697UF	E4420	12	8.5	27	10mm Ball Socket
3656NL	E4420	12	8.5	27	10mm Ball Socket
4191WD	E4420	12	8.5	27	10mm Ball Socket
5375RU	D4886	17.2	11	27	10mm Ball Socket
6625UJ	D4418	17.2	11	43	10mm Ball Socket
UWS					
5239RE	E4683	14.9	9.6	79	10mm Ball Socket
8322IV	F6915	10	7	40	10mm Ball Socket
8363IV	E4683	14.9	9.6	79	10mm Ball Socket

