



SKI-DOO 2018-4 Suspension Spring Chart_133199_SER11Y018S08_en

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Language

English ▼

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Product:	Ski-Doo
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Publication date:	May 2017
Subject:	Suspension Spring Chart

YEAR	MODEL
2018	All Ski-Doo

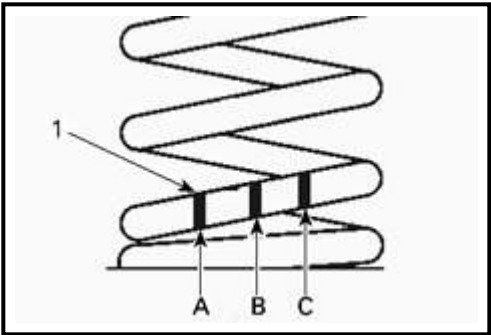
This bulletin is divided into 3 main sections:

Section 1: Spring Identification
- Spring identification guideline. Gives information on color codes, part number and spring shape.
Section 2: Spring Applications
- Quick reference chart which provides authorized spring application for each Ski-Doo model. It contains the standard spring part number (in gray shading) as installed at the factory, as well as 1 softer spring and 1 harder spring recommendation.
Section 3: Spring Specifications
- Refers to spring specifications table.

SECTION 1: SPRING IDENTIFICATION

Coil Spring Identification

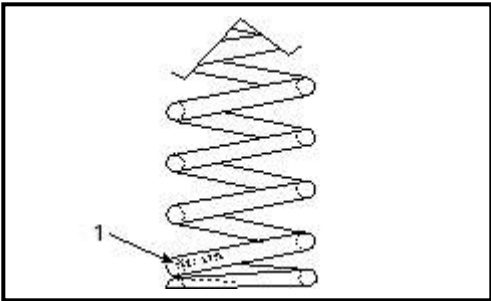
Spring identification is done by color code stripes **or** by its part number printed on the spring with white ink within the first 1-1/4 coils.



IDENTIFICATION BY COLOR STRIPES

1. Color stripes when spring is upright with the stripes down

- A. 1st stripe
- B. 2nd stripe
- C. 3rd stripe



IDENTIFICATION BY THE SPRING PART NUMBER

1. Part number

Color Code Legend

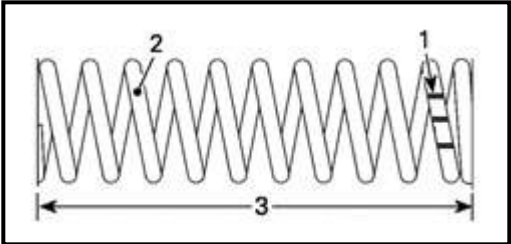
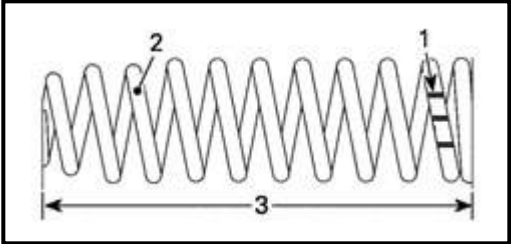
COLOR CODE					
BL	—	BLUE	PI	—	PINK
BK	—	BLACK	RD	—	RED

GD	—	GOLD	SI	—	SILVER	Translate
GN	—	GREEN	WH	—	WHITE	
OR	—	ORANGE	YL	—	YELLOW	

Coil Spring Types

All call-outs below each following illustrations (except torsion springs) refer to:

1. Color code stripes
2. Wire diameter
3. Free length
4. Positioning tab (where applicable).

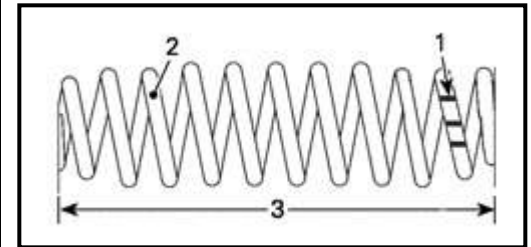
Spring type		
<div>Type R</div> <div>(straight at both ends)</div>	<div>Single Rate</div> <div>Spring</div>	
<div>Type S</div> <div>(barrel shape at one end)</div>	<div>Single Rate</div> <div>Spring</div>	

Spring type

[Translate](#)

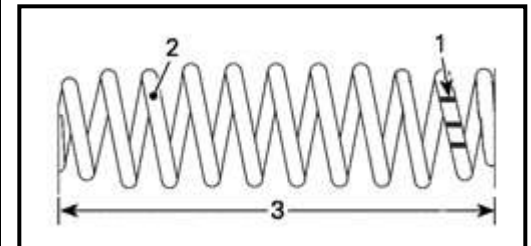
Type T
(barrel shape at both ends)

Single Rate
Spring



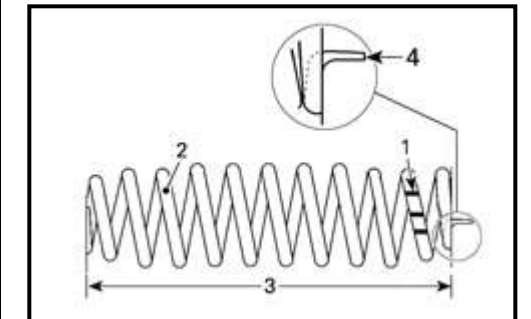
Type V
(barrel shape at both ends)

Single Rate
Spring



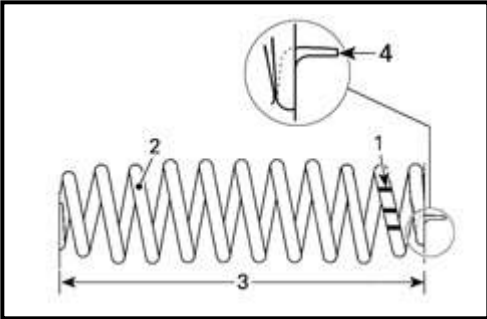
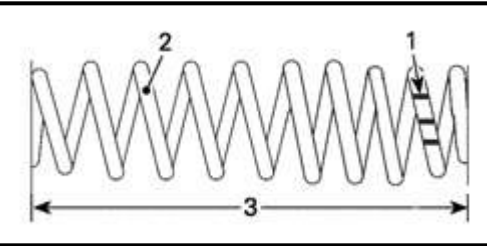
Type Y
(barrel shape at both ends with positioning tab at the identification code coils end)

Single Rate
Spring

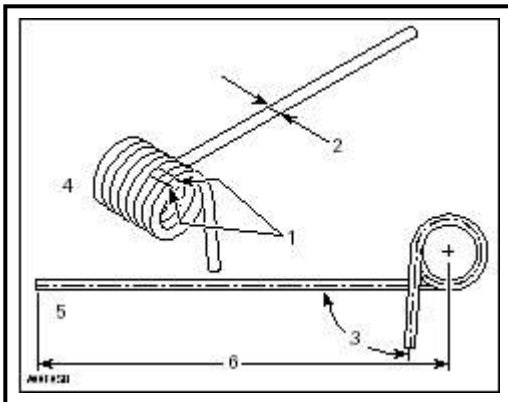


Spring type

[Translate](#)

<p>Type Z (barrel shape at both ends with positioning tab at identification code coils end and 2 different diameter ends)</p>	<p>Single Rate Spring</p>	
<p>Type 2 (barrel shape at both ends)</p>	<p>Dual Rate Spring</p>	

Torsion Spring Identification



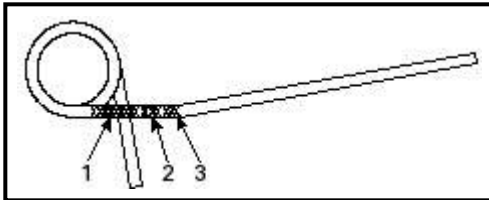
IDENTIFICATION BY COLOR STRIPES

1. Color code stripes
2. Wire diameter
3. Opening angle (°)

4. Left hand (LH)
5. Right hand (RH)
6. Length

[Translate](#)

Spring identification is done by color code stripes (as shown above) **or** by its part number printed on the spring with white ink (as shown below).



IDENTIFICATION BY THE SPRING PART NUMBER

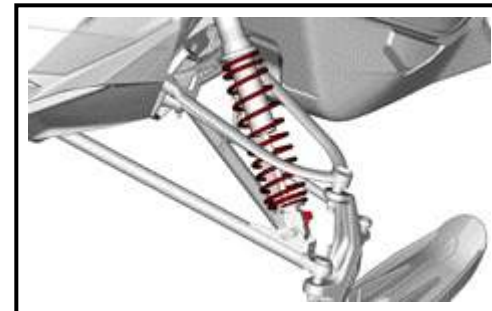
1. Spring Part Number
2. Spring rate
3. Angle dimension

Color Code Legend

COLOR CODE					
BL	—	BLUE	PI	—	PINK
BK	—	BLACK	RD	—	RED
GD	—	GOLD	SI	—	SILVER
GN	—	GREEN	WH	—	WHITE
OR	—	ORANGE	YL	—	YELLOW

SECTION 2: SPRING APPLICATIONS

FRONT SPRINGS



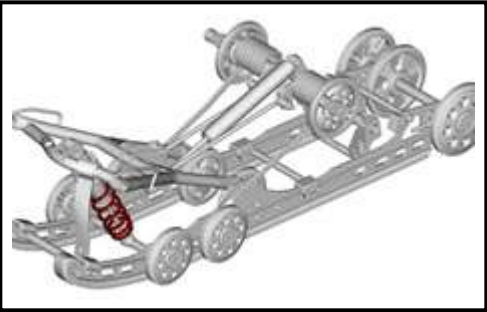
MODEL	(PART NUMBER) SOFTER	(PART NUMBER) STANDARD	(PART NUMBER) Translate
FREERIDE SERIES			
Freeride 137 - 146 - 154 HCE - 154 s38	505074293	505074309	N.A.
Freeride 154 (Except HCE and s38) - 165	N.A.	505074049	505074309
Grand Touring Series			
Grand Touring Sport	505072897	505073521	505072518
Grand Touring LE 600 HO E-TEC	505072792	505072119	505072767
Grand Touring LE 900 ACE / SE 900 ACE	505072119	505072767	505072993
Grand Touring LE 1200 4-TEC / SE 1200 4-TEC	505072767	505072993	N.A.
MX Z Series			
MX Z Sport	505072763	505073265	505072116
MX Z TNT 600 HO E-TEC / Blizzard 600 HO E-TEC	505072526	505072537	505072528
MX Z TNT 900 ACE / Blizzard 900 ACE	505072537	505073332	505072528
MX Z TNT 1200 4-TEC / Blizzard 1200 4-TEC	505072537	505072528	N.A.
MX Z X 1200 4-TEC	505072741	505072761	N.A.
MX Z X 600 HO E-TEC	505072846	505072741	505072761

MX Z X 850 E-TEC (CAN / US) / TNT 850 E-TEC / Blizzard 850 E-TEC	N.A.	505074046	505072761
MX Z X-RS 850 E-TEC	505074293	505074309	N.A.
MX Z X-RS 600 HO E-TEC	505072760	505073315	N.A.
Renegade Series			
Renegade Sport (CAN / US)	505072763	505073265	505072993
Renegade Adrenaline 600 HO E-TEC / Enduro E-TEC	505072526	505072537	505072528
Renegade Adrenaline 900 ACE (CAN / US) / Enduro 900 ACE / Sport 600 ACE (EUR)	505072537	505073332	505072528
Renegade Adrenaline 1200 4- TEC / Enduro 1200 4-TEC	505072537	505072528	N.A.
Renegade X-RS	505074293	505074309	N.A.
Renegade Backcountry 600 HO E-TEC (CAN / US)	505072532	505072526	505072537

Renegade Backcountry 600 HO E-TEC (EUR)	505072526	505072537	505072528
Renegade X 600 HO E-TEC / Backcountry 850 E-TEC / Backcountry X 850 E-TEC	505072846	505072741	505072761
Renegade Adrenaline 850 E-TEC / X 850 E-TEC	N.A.	505074046	505072761
Renegade Adrenaline 900 ACE (EUR) / X 1200 4-TEC	505072741	505072761	N.A.
SUMMIT Series			
Summit Sport	505072792	505072763	505072791
Summit SP 600 HO E-TEC	N.A.	505072792	505072119
Summit SP 850 E-TEC	N.A.	505074049	505074309
Summit x 850 E-TEC	N.A.	505074048	505074046
Expedition Series			

Expedition Sport 550F / 600 ACE	505072668	505072897	505072518
Expedition Sport 900 ACE (CAN / US)	505072897	505073521	505072518
Expedition Sport 900 ACE (EUR)	505073521	505072518	N.A.
Expedition LE 600 HO E-TEC / SE 600 HO E-TEC	N.A.	503192286	505072882
Expedition Xtreme	505072846	505072741	505072761
Expedition LE 900 ACE (EUR) / SE 1200 4-TEC (EUR)	505073265	505074329	N.A.
Expedition LE 900 ACE (CAN / US) / SE 900 ACE / LE 1200 4-TEC / SE 1200 4-TEC (CAN / US)	N.A.	505073827	N.A.
Skandic Series			
Skandic WT 550F / SWT 550F	N.A.	505072557	505072745

Skandic SW 600 HO E-TEC / 600 ACE / 900 ACE / SWT 600 HO E-TEC / 900 ACE	505072557	505072745	505073204
TUNDRA Series			
Tundra LT 550F / Sport 550F	N.A.	505072557	505072745
Tundra Sport 600 ACE / LT 600 ACE (CAN / US)	505072557	505072745	505073327
Tundra LT 600 ACE (EUR) / Xtreme	505072745	505073327	505073204

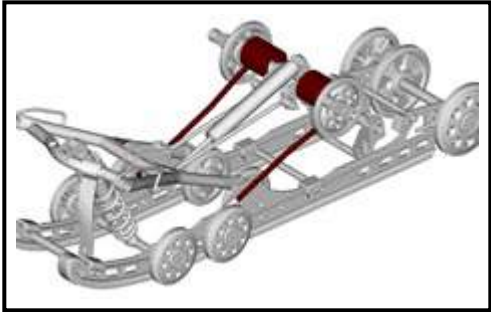
CENTER SPRINGS	
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MODEL	(PART NUMBER) SOFTER	(PART NUMBER) STANDARD	(PART NUMBER) Translate
FREERIDE SERIES			
Freeride 137 - 146 - 154 HCE - 154 s38	N.A.	503193479 503193065	503192724 503192744
Freeride 154 (except hce and s38) - 165	N.A.	503194789	N.A.
Grand Touring Series			
Grand Touring Sport 600 ACE	503191879	503191882	503191880
Grand Touring LE 600 HO E-TEC	N.A.	503193837 503193067	503191343 503192279
Grand Touring LE 900 ACE / 1200 4-TEC / SE 900 ACE / 1200 4-TEC	503193480 503193067	503193837 503193160	503191343 503192279
MX Z Series			
MX Z Sport 600	503191476	503191329	503191879
MX Z Sport 600 ACE	503191329	503191879	503191882
MX Z TNT E-TEC / 900 ACE / MX Z X E-TEC / MX Z Blizzard E-TEC / 900 ACE	N.A.	503193837 503193067	503191343 503192279
MX Z TNT 1200 4-TEC / MX Z X 1200 4-TEC / Blizzard 1200 4-TEC	503193480 503193067	503193837 503193160	503191343 503192279
MX Z X-RS	N.A.	503193479 503193065	503192724 503192744
Renegade Series			

Renegade Sport / Backcountry 600 HO E-TEC	503191879	503191882	503191880
Renegade Adrenaline E-TEC / 900 ACE (CAN / US) / Enduro E- TEC / 900 ACE / RENEGADE X E-TEC / Backcountry 850 E-TEC / backcountry x	N.A.	503193837 503193067	503191343 503192279
Renegade Adrenaline 900 ACE (EUR) / 1200 4-TEC / Renegade X 1200 4-TEC / Enduro 1200 4- TEC	503193480 503193067	503193837 503193160	503191343 503192279
Renegade X-RS	N.A.	503193479 503193065	503192724 503192744
SUMMIT Series			
Summit Sport / SP except 175"	503191879	503191882	503191880
Summit sp 175"	503191882	503191880	503189686
Summit X except 175"	N.A.	503194182	N.A.
Summit x 175"	503194182	503194990	N.A.

Expedition Series			
Expedition Sport 550F	503191879	503191882	503191880
Expedition Sport 600 ACE / 900 ACE (CAN / US)	503191882	503191880	503189686
Expedition Sport 900 ACE (EUR)	503190476 503190478	503191343 503192279	503190982 503190854
Expedition LE 600 HO E-TEC / Expedition SE 600 HO E-TEC / Expedition Extreme 800R E-TEC	503191882	503191880	503189686
Expedition LE 900 ACE / 1200 4-TEC / Expedition SE 900 ACE / 1200 4-TEC	503191880	503189686	N.A.
Skandic Series			
Skandic WT / SWT	503191882	503191880	503189686
TUNDRA Series			
Tundra LT 550F/ Tundra Sport 550F	503191879	503191882	503191880

Tundra Sport 600 ACE / Tundra LT 600 ACE	503191882	503191880	503189686
Tundra Xtreme	503190476 503190478	503191343 503192279	503190982 503190854

<p>REAR SPRINGS</p>			
MODEL	(PART NUMBER) SOFTER	(PART NUMBER) STANDARD	(PART NUMBER) HARDER
FREERIDE SERIES			
Freeride 137	503192137 (right) 503192136 (left)	503192104 (right) 503192105 (left)	503192270 (right) 503192271 (left)

Freeride 146 - 154 HCE - 154 s38	503192080 (right) 503192081 (left)	503192137 (right) 503192136 (left)	503192270 (right) 503192271 (left)
Freeride 154 (Except HCE and s38) / 165	503193637 (right) 503193636 (left)	503193002 (right) 503193003 (left)	503192270 (right) 503192271 (left)
Grand Touring Series			
Grand Touring Sport (CAN / US)	503191287 (right) 503191289 (left)	503192270 (right) 503192271 (left)	503191247 (right) 503191249 (left)
Grand Touring LE / Grand Touring Sport (EUR)	503192270 (right) 503192271 (left)	503193538 (right) 503193539 (left)	503191481 (right) 503191483 (left)
Grand Touring SE	503193159 (right) 503193158 (left)	503192270 (right) 503192271 (left)	503193538 (right) 503193539 (left)
MX Z Series			
MX Z Sport	N.A.	503191612 (right) 503191613 (left)	503191614 (right) 503191615 (left)
MX Z X-RS 600 HO E-TEC / 850 E-TEC (EUR)	503193159 (right) 503193158 (left)	503192104 (right) 503192105 (left)	503192270 (right) 503192271 (left)

MX Z X / TNT / MX Z X-RS 850 E-TEC (CAN / US) / Blizzard	503192080 (right) 503192081 (left)	503193159 (right) 503 193158 (left)	503192270 (right) 503192271 (left)
Renegade Series			
Renegade Sport (CAN / US)	N.A.	503192080 (right) 503192081 (left)	503192270 (right) 503192271 (left)
Renegade Sport (EUR)	503193159 (right) 503193158 (left)	503192270 (right) 503192271 (left)	503193538 (right) 503193539 (left)
Renegade Adrenaline (CAN / US) / Backcountry (CAN / US) / Backcountry X (CAN / US) / X (CAN / US)	503192080 (right) 503192081 (left)	503193159 (right) 503193158 (left)	503192270 (right) 503192271 (left)
Renegade Adrenaline (EUR) / X (EUR) / backcountry (EUR) / Backcountry X (EUR) / X-RS	503193159 (right) 503193158(left)	503192104 (right) 503192105 (left)	503192270 (right) 503192271 (left)
Renegade Enduro	503193637 (right) 503193636 (left)	503192080 (right) 503 192 081 (left)	503192104 (right) 503192105 (left)
SUMMIT Series			

Summit Sport / SP / X	503193637 (right) 503193636 (left)	503193002 (right) 503193003 (left)	503192270 (right) 503192271 (left)
Expedition Series			
Expedition Sport 550F / 600 ACE / 900 ACE (CAN / US)	503191287 (right) 503191289 (left)	503192270 (right) 503192271 (left)	503191247 (right) 503191249 (left)
Expedition Sport 900 ACE (EUR)	503192270 (right) 503192271 (left)	503193538 (right) 503193539 (left)	503191481 (right) 503191483 (left)
Expedition LE / SE	503194340 (right) 503194341 (left)	503192377 (right) 503192378 (left)	503192910 (right) 503192911 (left)
Expedition Extreme	N.A.	503194340 (right) 503194341 (left)	503192377 (right) 503192378 (left)
Skandic Series			
Skandic WT	503194340 (right) 503194341 (left)	503192377 (right) 503192378 (left)	503192910 (right) 503192911 (left)
Skandic SWT	503192377 (right) 503192378 (left)	503192910 (right) 503192911 (left)	N.A.
TUNDRA Series			

Tundra Sport	503193637 (right) 503193636 (left)	503192080 (right) 503192081 (left)	503192270 (right) 503192271 (left)
Tundra LT / Xtreme	503192080 (right) 503192081 (left)	503192137 (right) 503192136 (left)	503192270 (right) 503192271 (left)

SECTION 3: SPRING SPECIFICATIONS

Coil Springs Specifications

(PART NUMBER)	TYPE	SPRING RATE (lb/in) ± 10	FREE LENGTH (mm) ± 3	WIRE DIAMETER (mm) $\pm .05$	COLOR CODE	COLOR OF SPRING
503189686	T	200	242	9.19	RD/SI/YL	BLACK
503190476	R	210	64.6	6.65	BL/SI/YL	BLACK
503190478	S	240	178	9.19	GN/SI/YL	BLACK
503190854	R	325	189	8.84	SI/WH/YL	BLACK
503190982	R	319	72	7.14	GD/YL/RD	BLACK

(PART NUMBER)	TYPE	SPRING RATE (lb/in) ±10	FREE LENGTH (mm) ±3	WIRE DIAMETER (mm) ±.05	COLOR CODE	COLOR OF SPRING
503191329	T	110	242	6.95	GD/RD/RD	BLACK
503191343	R	223	56	5.94	SI/RD/RD	BLACK
503191476	T	90	242	6.65	GD/RD/GN	BLACK
503191879	T	135	242	7.49	detail "A" WH/WH/OR	BLACK
503191880	T	180	242	8.25	detail "A"	BLACK
503191882	T	150	242	7.77	detail "A"	BLACK
503192279	T	275	184	8.71	detail "A"	BLACK
503192724	S	275	155	9.19	detail "A"	BLACK
503192744	R	222	59	6.17	detail "A"	BLACK
503192286	T	300	80	7.49	—	FULL MOON
503193065	S	190	162	8.25	detail "A"	BLACK
503193067	S	190	189	7.92	detail "A"	BLACK
503193160	V	275	189	9.19	detail "A"	BLACK
503193479	R	197	52	5,94	—	BLACK
503193480	R	175	51	5.54	—	BLACK
503193657	Z	150	242	7,49	detail "A"	BLACK
503193837	R	178	51	5,94	—	BLACK
503194182	Z	150	242	7.49	—	BLACK

(PART NUMBER)	TYPE	SPRING RATE (lb/in) ±10	FREE LENGTH (mm) ±3	WIRE DIAMETER (mm) ±.05	COLOR CODE	COLOR OF SPRING
503194789	V	150	218	7.92	—	BLACK
503074990	V	180	242	8.25	detail "A"	BLACK
505071842	T	90	280	7.77	WH/GD/RD	FULL MOON
505071849	T	105	280	7.77	GD/WH/RD	FULL MOON
505072116	T	125	280	7.77	OR/SI/BL	BLACK
505072119	T	90	280	7.77	WH/SI/BL	BLACK
505072414	T	80	280	7.14	WH/BK/GD	FULL MOON
505072518	T	120	280	8.25	detail "A"	FULL MOON
505072526	Y	80	280	7.14	detail "A"	BLACK
505072528	Y	120	280	8.25	detail "A"	BLACK
505072537	Y	90	280	7.49	detail "A"	BLACK
505072557	T	70	263	5.94	detail "A"	BLACK
505072668	T	80	300	7.49	—	FULL MOON
505072726	Z	75	280	7.14	detail "A"	BLACK
505072741	Z	90	280	7.49	detail "A"	BLACK
505072745	T	60	263	6.17	detail "A"	BLACK
505072760	V	90	280	7.49	detail "A"	BLACK
505072761	Z	120	280	8.25	detail "A"	BLACK

505072763	T	80	300	7.49	detail "A"	BLACK
505072767	T	105	280	7.92	—	BLACK
505072791	T	90	300	7.92	detail "A"	YELLOW
505072792	T	75	280	7.14	detail "A"	BLACK
505072846	Z	80	280	7.14	detail "A"	BLACK
505072879	T	105	300	8	—	BLACK
505072882	T	90	300	8	—	BLACK
505072897	T	90	300	7.92	detail "A"	FULL MOON
505072993	T	120	280	8.25	detail "A"	BLACK
505073204	T	88	266	6.65	detail "A"	BLACK
505073265	T	90	280	7.92	detail "A"	BLACK
505073315	V	105	280	7.92	detail "A"	BLACK
505073327	T	80	266	6,65	detail "A"	BLACK
505073332	Y	105	280	7,92	detail "A"	BLACK
505073521	T	105	300	8,25	detail "A"	FULL MOON
505073783	Z	75	280	6,81	detail "A"	BLACK
505073827	T	160	300	8	—	FULL MOON
505074046	Z	105	280	8.25	detail "A"	BLACK
505074048	Z	80	280	7.29	detail "A"	BLACK
505074049	V	80	280	7.49	detail "A"	BLACK
505074293	V	90	280	7.92	detail "A"	BLACK
505074329	T	105	300	8	—	BLACK

Torsion Springs Specifications

Torsion Springs for SC-5M, cMotion, tMotion and rMotion Suspensions

(PART NUMBER)	WIRE DIAMETER (MM)	OPENING ANGLE $\pm 7^\circ$	COLOR CODE	COLOR OF SPRING	CONSTANT (N•mm / DEGREE)
503191247 (Right) 503191249 (Left)	11.0 x 9.25 (rectangular)	90°	WH/YL	BLACK	1.99
503191287 (Right) 503191289 (Left)	9.525 (square)	80°	GN/YL/YL	BLACK	1.44
503191481 (Right) 503191483 (Left)	11.0 x 9.25 (rectangular)	100°	WH/BL	BLACK	2.30
503192080 (Right) 503192081 (Left)	8.85 (square)	80°	detail "B"	BLACK	1.27
503192104 (Right) 503192105 (Left)	9.525 (square)	90°	detail "B"	BLACK	1.50
503192137 (Right) 503192136 (Left)	9.0 (square)	80°	detail "B"	BLACK	1.35
503192270 (Right) 503192271 (Left)	9.86 (square)	80°	detail "B"	BLACK	1.66
503193002 (Right) 503193003 (Left)	8.46 (square)	80°	detail "B"	BLACK	1.27
503193159 (Right) 503193158 (Left)	9.14 (square)	80°	detail "B"	BLACK	1.35
503193538 (Right) 503193539 (Left)	11.0 x 9,25 (Rectangular)	90°	detail "B"	BLACK	1.94

(PART NUMBER)	WIRE DIAMETER (MM)	OPENING ANGLE $\pm 7^\circ$	COLOR CODE	COLOR OF SPRING	CONSTANT (N•mm / DEGREE)
503193637 (Right) 503193636 (Left)	8.46 (square)	90°	detail "B"	BLACK	1,13

Torsion Springs for SC-5 Suspension (MX Z Sport)

(PART NUMBER)	WIRE DIAMETER (MM)	OPENING ANGLE $\pm 7^\circ$	COLOR CODE	COLOR OF SPRING	CONSTANT (N•mm / DEGREE)
503191612 (Right) 503191613 (Left)	8.85 (square)	95°	GN/RD/YL	BLACK	1.28
503191614 (Right) 503191615 (Left)	9.53 (square)	100°	GN/BL/YL	BLACK	1.56

Torsion Springs for SC-5U Suspension (Skandic and Expedition LE / SE / Extreme)

(PART NUMBER)	WIRE DIAMETER (MM)	OPENING ANGLE $\pm 7^\circ$	COLOR CODE	COLOR OF SPRING	CONSTANT (N•mm / DEGREE)
503192377 (Right) 503192378 (Left)	11 x 9.25 (rectangular)	75°	detail "B"	BLACK	1.92
503192910 (Right) 503192911 (Left)	11 x 11 (square)	75°	detail "B"	BLACK	2.45
503194340 (right) 503194341 (left)	11 x 9.25 (rectangular)	90°	detail "B"	BLACK	1.88
