

Wright Mower Belt Application Guide

Deck Size (in)	Sentar (WSE)			Sentar Sport (WSES) & Stander RH (WSR)			Stander-Small Frame (WS&WSS)			Stander-Large Frame (WS)					Stander X (WSTX)			Stander ZK (WSZK)			Velke Pistol Grip Drive (WVG)			Velke Quad-Lever (WVQL)			Wright Z (MMZ)		
	Pre 19729	19729 to 26979	31423 & Higher	Pre 20303	20303 to 28287	28288 & Higher	Pre 12000	12000 to 20244	20245 to 49704	49705 & Higher	53014 & Higher	43747 & Higher	32274 & Higher	27543 & Higher	20448 to 28214	28215 & Higher	20448 to 28214	27543 & Higher	20448 to 28214	28215 & Higher	32274 & Higher	27543 & Higher	20448 to 28214	28215 & Higher	31897 & Higher	28215 & Higher	31897 & Higher		
Hydro Belt	71480034	71480041	71480064	71480023	71480034	71480033	71480001	71480033	71480064	71480064	71480118	71480068	71480068	71480068	71480034	71480068	71480068	71480068	71480034	71480068	71480068	71480068	71480068	71480068	71480068	71480068	71480068	71480068	
Trans Belt	ALL																												
Wheel Belt	ALL																												
Engine-to-Blade Belt	32																												
	36																												
	42																												
	48																												
	52																												
	61																												
Blade-to-Blade Belt	32																												
	36																												
	42																												
	48																												
	52																												
	61																												

HYDRAULIC PUMP APPLICATION INFORMATION

MOWER	LEFT WMI #	LEFT HYDRO GEAR #	RIGHT WMI #	RIGHT HYDRO GEAR #
Stander - Early Models	31490001	BDP-10L-117P	31490001	BDP-10L-117P
ALL WS				
Stander - Late Models	31490004	BDP-10A-320	31490005	BDP-10A-438
WS 32,36,42		PG-1KQQ-DA1X-XXXX		PG-1HQQ-DB1X-XXXX
Stander - Serial 47283	31490026	PE-1KQQ-DP1X-XXXX	31490027	PE-1HQQ-DN1X-XXXX
Stander - Late Models	31490005	BDP-10A-438	31490004	BDP-10A-320
WS 48,52,61"		PG-1HQQ-DB1X-XXXX		PG-1KQQ-DA1X-XXXX
Stander - Serial 47283	31490027	PE-1HQQ-DN1X-XXXX	31490026	PE-1KQQ-DP1X-XXXX
Stander Serial 49705 & above	31490031	PK-3HPP-FB1E-XXXX	31490030	PK-3KPP-FA1E-XXXX
Stander Serial 49705 thru 54642	Mod. 31490032	PK-3KPP-FA1E-XXXX	Mod. 31490033	PK-3HPP-FB1E-XXXX
Stander X	31490032		31490033	
ALL WSTX		PK-3KPP-FA1E-XXXX		PK-3HPP-FB1E-XXXX
Stander - RH	31490004	BDP-10A-320	31490005	BDP-10A-438
WSR 36,42,48,52		PG-1KQQ-DA1X-XXXX		PG-1HQQ-DB1X-XXXX
Stander - RH - Serial 47283	31490026	PE-1KQQ-DP1X-XXXX	31490027	PE-1HQQ-DN1X-XXXX
Stander - S	31490004	BDP-10A-320	31490005	BDP-10A-438
WSS 32,36,42,48		PG-1KQQ-DA1X-XXXX		PG-1HQQ-DB1X-XXXX
Stander - ZK	31490023	PR-2KCC-GP12-XXXX	31490022	PR-2HCC-GP12-XXXX
WSZK 52,61"				
Sentar - Early Models	31490003	BDP-10L-504	31490003	BDP-10L-504
WSE 48,52,61				
Sentar 2	31490007	BDP-16A-414	31490006	BDP-16A-312
WSE 48,52,61	(mod.31490010)	RTN FLIPPED	(mod.31490009)	RTN FLIPPED
Sentar 3	31490010	PR-1HCC-EH1X-XXXX	31490009	PR-1KCC-EH1X-XXXX
WSE 48,52,61				
Sentar Sport	31490004	BDP-10A-320	31490005	BDP-10A-438
WSES 36,42,48,52		PG-1KQQ-DA1X-XXXX		PG-1HQQ-DB1X-XXXX
Sentar Sport - Serial 47283	31490026	PE-1KQQ-DP1X-XXXX	31490027	PE-1HQQ-DN1X-XXXX
Mid Mount Z	31490014	PR-1KCC-EQ1X-XXXX	31490015	PR-1HCC-ET1X-XXXX
WZ 48,52,61"	(mod.31490009)	RTN CUT	(mod.31490010)	RTN CUT
Velke Mower - V-Turn	31490004	BDP-10A-320	31490005	BDP-10A-438
WV		PG-1KQQ-DA1X-XXXX		PG-1HQQ-DB1X-XXXX
Velke Mower - Pistol Grip	31490012	BDP-10A-438	31490011	BDP-10A-320
WVP	(mod.31490005)	PG-1HQQ-DB1X-XXXX	(mod.31490004)	PG-1KQQ-DA1X-XXXX
Velke Mower - PG - Serial 47285	31490012	PE-1HQQ-DN1X-XXXX	31490011	PE-1KQQ-DP1X-XXXX
	(mod.31490027)	RTN CUT	(mod.31490026)	RTN CUT

Notes: _____

Mower Model	Spindle Usage
Large Frame Stander	71460007- 48",52",61" prior to serial number 49705
	71460126- 48",52",61" serial 49705 and after
	95460016- Kit to replace 71460007 spindle with 71460126 spindle in serials prior to 49705
Small Frame Stander	71460022- 32",36",42" prior to serial 52971
	71460126- 32",36",42" serial 52971 and after
	95460018- Kit to replace 71460022 spindle with 71460126 spindle in serials prior to 52971
Velke Walk Behinds	71460039- 32",36",42",48",52" all serials
Sentar	71460026,38,57- 48",52",61" prior to serial number 32226
	71460092- 48",52",61" serial 32226 to serial 39285
	71460114- 48",52",61" serial 39286 and after
	71460115- 48",52",61" Kit to replace 71460038,57,92 in any two belt cutter deck
	Kit for 1 belt decks?
MMZ	71460092- 48",52",61" prior to serial number 39286
	71460114- 48",52",61" serial number 39286 and after
	71460115- Kit to replace 71460092 spindle to 71460114 spindle in serials prior to 39286
Sentar Sport/ Stander RH	71460038,57,92- 36",42",48",52" prior to serial 43612
	71460114- 36",42",48",52" serial 43612 and after
	71460115- Kit to replace 71460038,57,92 spindles to 71460114 spindle
Stander ZK	71460114- 52",61" serial number 43747 to serial number 53405
	71460126- 52",61" serial number 53406 and after
	71460114 is a non thru bolt shaft, 71460126 is a thru bolt shaft.
Stander X	71460126- 52" serial number 53014 and after

Notes: _____

Torque Specifications

Critical Application	Models	Thread Locker	Torque Range (ft-lbs)	Torque Sticks
Wheel motor bolts (Securing motor to support)	Big/Small Stander, Stander X, RH, WSES, Velke	Loctite 2760	40-50	50
Wheel motor bolts / nuts (Securing motor to support)	ZK, MMZ, Sentar3	N/A	103-125	110
Clutch to engine shaft	All Models	Loctite 2760	50-55	50
Wheel hub to wheel motor	Big Stander, Stander X (MF14)	N/A	175-225	160
	ZK, MMZ, Sentar3 (15E)		160-240	160
	All Others (12P)		138-158	130
Wheel lug nuts	All Models	N/A	80-90	90
Split Hub (Spindle & Drive) (Gr 8)	All Models	N/A	13-17	n/a
Blade Bolts	All Models	N/A	70-80	n/a

Notes: _____

CURRENT MODEL HOSE APPLICATION CHART (flat face)

HOSE	CUT LENGTH	MODEL	PUMP END FITTING	W/M END FITTING
33410037	50"	ALL WSES/RH RT. SIDE	35410055	35410052
33410038	50"	ALL WSES/RH LT. SIDE	35410055	35410052
33410050	16-1/2"	ALL WVP/QL	35410054	35410050
33410057	34"	ALL WSE III	35410055	35410051
33410061	21"	WS/SM SER. 26288 & UP	35410055	35410053
33410072	21"	ALL MMZ RT. SIDE	35410052	35410051
33410073	21"	ALL MMZ LT. SIDE	35410052	35410051
33410081	55"	ALL WSZK RT. SIDE	35410055	35410051
33410082	55"	ALL WSZK LT. SIDE	35410055	35410051
33410087	16"	ALL WS 48",52" SER. 49486 & UP	35410055	35410053
33410088	17-1/2"	ALL WS 61" SER. 49486 & UP	35410055	35410050

OBSOLETE HOSE CHART (WITH HOOPS)

OBS. HOSE	REPL. HOSE	CUT LENGTH	PUMP END FITTING	W/M END FITTING	INCL. W/HOSE	MODELS
33410004	33410062	23"	35410054	35410050	35410048/35410005	WS/SM
33410005	33410064	27"	35410054	35410050	35410048/35410005	WS/SM
33410010	33410051	21"	35410054	35410050	35410048/35410005	WS/BIG
33410011	33410051	21"	35410054	35410050	35410048/35410005	WS/BIG,WVQL
33410015	33410066	32"	35410054	35410050	35410048	WSE I
33410031	33410066	32"	35410054	35410050	35410048	WSE I/KOHLER
33410032	33410066	32"	35410054	35410050	35410048	WSE I/KOHLER

OBSOLETE HOSE CHART (WITHOUT HOOPS)

OBS. HOSE	REPL. HOSE	CUT LENGTH	PUMP END FITTING	W/M END FITTING	INCL. W/HOSE	MODELS
33410004	33410063	23"	35410055	35410052	35410041	WS/SM
33410005	33410065	27"	35410055	35410052	35410041	WS/SM
33410010	33410052	21"	35410055	35410052	35410041	WS/BIG
33410011	33410052	21"	35410055	35410052	35410041	WS/BIG
33410015	33410067	32"	35410055	35410051	35410041	WSE II
33410031	33410067	32"	35410055	35410051	35410041	WSE II/KOHLER
33410032	33410067	32"	35410055	35410051	35410041	WSE II/KOHLER

Notes: _____

CURRENT MODEL HOSE APPLICATION CHART-(ALL JIC FITTINGS)

HOSE	CUT LENGTH	MODEL	PUMP END FITTING & NEW JIC PUMP FITTING	W/M END FITTING
33410037	50"	ALL WSES/RH RT. SIDE	35410050 + 35410064	35410052
33410038	50"	ALL WSES/RH LT. SIDE	35410050 + 35410064	35410052
33410050	16-1/2"	ALL WVP/QL	35410052	35410050
33410057	34"	ALL WSE III	35410050 + 35410064	35410051
33410061	21"	WS/SM SER. 26288 & UP	35410050 + 35410063	35410053
33410072	21"	ALL MMZ RT. SIDE	35410052 + 35410009	35410051
33410073	21"	ALL MMZ LT. SIDE	35410052 + 35410009	35410051
33410081	55"	ALL WSZK RT. SIDE	35410050 + 35410064	35410051
33410082	55"	ALL WSZK LT. SIDE	35410050 + 35410064	35410051
33410087	16"	ALL WS 48",52" SER. 49705 & UP	35410050 + 35410063	35410053
33410088	17-1/2"	ALL WS 61" SER. 49725 & UP	35410050 + 35410063	35410050
33410089	19"	ALL WSTX SER. 53014 & UP	35410050	35410050
33410093	16"	ALL WSTX SER. 53014 & UP	35410050	35410050

OBSOLETE HOSE CHART (WITH HOOPS)

OBS. HOSE	REPL. HOSE	CUT LENGTH	PUMP END FITTING	W/M END FITTING	INCL. W/HOSE	MODELS
33410004	33410062	23"	35410052	35410050	35410009/35410005	WS/SM
33410005	33410064	27"	35410052	35410050	35410009/35410005	WS/SM
33410010	33410051	21"	35410052	35410050	35410009/35410005	WS/BIG
33410011	33410051	21"	35410052	35410050	35410009/35410005	WS/BIG,WVQL
33410015	33410066	32"	35410052	35410050	35410009	WSE I
33410031	33410066	32"	35410052	35410050	35410009	WSE I/KOHLER
33410032	33410066	32"	35410052	35410050	35410009	WSE I/KOHLER

OBSOLETE HOSE CHART (WITHOUT HOOPS)

OBS. HOSE	REPL. HOSE	CUT LENGTH	PUMP END FITTING	W/M END FITTING	INCL. W/HOSE	MODELS
33410004	33410063	23"	35410050	35410052	35410064	WS/SM
33410005	33410065	27"	35410050	35410052	35410064	WS/SM
33410010	33410052	21"	35410050	35410052	35410064	WS/BIG
33410011	33410052	21"	35410050	35410052	35410064	WS/BIG
33410015	33410067	32"	35410050	35410051	35410064	WSE II
33410031	33410067	32"	35410050	35410051	35410064	WSE II/KOHLER
33410032	33410067	32"	35410050	35410051	35410064	WSE II/KOHLER

Notes: _____

PUMP AND WHEEL MOTOR SEAL KITS

PARKER WHEEL MOTORS

WMI PART #	PARKER
32410001	MF1609
32410002	MF1409
32410003	MF1209

PARKER PARTS & KITS COVERING WHEEL MOTORS ABOVE

DIRT & WATER SEAL	478036
COUPLING SHAFT	MF019004
SHAFT KEY	G124553
SHAFT NUT	25136
SEAL RING (5)	32821
SEAL KIT	SK000090

HYDRO GEAR WHEEL MOTORS

WMI PART #	HG #	SEAL KIT
32410004	HGM12P	70626
32410005	HGM15E	70602
32410006	HGM15E	70602
32410007	HGM15P	70626-1 For serial #'s on or before 5146M10001
32410007	HGM15P	70626-2 For serial #'s after 5146M10001

HYDRO GEAR PUMPS

WMI PART #	HG#	SEAL KIT
31490001	BDP10L	2513018
31490003	BDP10L	2513018
31490004	BDP10A	70525
31490005	BDP10A	70525
31490006	BDP16A	2510073
31490007	BDP16A	2510073
31490009	BDP16A	2510073
31490010	BDP16A	2510073
31490014	BDP16A	2510073
31490015	BDP16A	2510073
31490022	BDP16A	2510073
31490023	BDP16A	2510073
31490026	BDP10A	70525
31490027	BDP10A	70525
31490030	BDP12PJ,PK	70525
31490031	BDP12PJ,PK	70525
31490032	BDP12PJ,PK	70525
31490033	BDP12PJ,PK	70525

RTN SPRINGS	HG #	USE
GOLD (80LBS.)	51605	16A
BLACK (60LBS.)	51833	10A,12PJ&PK
SILVER (40LBS.)	52401	OPT. 10A

Notes: _____

GRASS GOBBLER OPENING DIMENSIONS

MODEL	FRONT	TOP	BOTTOM	BACK
GG250/GGJ350	4 1/2"	11 1/2"	12"	4 1/2"
GG450/GGJ550	4 1/2"	11 1/2"	12"	4 1/2"
WR200-2/WRJ300-3	4 1/4"	15"	14 5/8"	4"
WRJ400-4	5 1/4"	15"	14 5/8"	5"
SNJ300-3	4 1/2"	9 1/2"	10 3/8"	4 1/2"
HNJ300-3	4 1/2"	17 3/4"	17 1/2"	4 1/2"
GRDJ300-3	4 3/8"	11 1/2"	12"	4 1/2"
TE250/TEJ350	4 1/2"	11 1/4"	12"	4 1/2"
BU236-95/BUJ336-95	4 1/2"	11 1/2"	12 1/8"	4 1/8"
BC110-2	BC ONLY	BC ONLY	BC ONLY	BC ONLY
TOJ350	4 3/4"	15"	14 1/2"	5"
TOJ336 (Baffled)	4 5/8"	8 1/4"	12 3/4"	4 5/8"
TOJ300-NB	4 1/2"	15"	14 1/2"	4 7/8"
SCGGT4	4 1/8"	14 7/8"	14 1/2"	4"
SAGGT4 (Baffled)	4 1/2"	14 1/4"	17 1/4"	3 7/8"
SA200-2/SAJ300-3 (Baffled)	4 3/8"	14 1/2"	17"	4 3/8"
SC200-2/SCJ300-3	4 1/8"	14 7/8"	14 1/2"	4"
GRP200-2/GRPJ300-3	4 1/4"	15"	14 5/8"	4"
LEJ348-NB	4 1/8"	15"	14 3/4"	3 3/4"
SVJ300-3	3 1/8"	17 5/8"	17 1/4"	4 3/8"
BG200-2	4"	10"	10 1/4"	4 3/8"
EXTJ300-3	5 1/2"	17 5/8"	17 3/8"	5 1/4"
SVGGT4	3 1/8"	17 5/8"	17 1/4"	4 3/8"
JD200-2/JDJ300-3	4 1/8"	14 7/8"	14 1/2"	4"
WRGGT4/-B	4 1/4"	15"	14 5/8"	4"
WRGGT10FRONT	4 1/4"	15"	14 5/8"	4"
FS200-2/FSJ300-3	4 3/8"	17 7/8"	17 1/2"	4 3/8"

Measurements are +/- 1/16"

Measurements are of the inside dimensions of the catcher chute opening.

Baffled refers to a triangle baffle at the front of the opening.

The front measurement on "Baffled" catchers is the height of the opening before the baffle. The top measurement is to the baffle edge.

Notes: _____

Specs for engines used on Wright mowers

MFG HP MODEL / SPEC

Kawasaki

	12.5	FB460V - ES36	
	15	FH451V - AS02	
KAI	15	FH430V - CS21-R	
	16	FS481V - AS12-R	new for 2011
	17	FH500V - AS16 - Recoil	
	17	FH500V - AS23 - Recoil / Electric	
KAI	17	FH541V - CS21-R - Recoil	
KAI	17	FH541V - CS33-R - Recoil/Electric	
KAI	17	FH541V - CS31-R - Electric only	
	18	FS541V - AS13-R	new for 2011
	19	FH601V - AS14	
KAI	19	FH580V - CS23-R	
	20	FX600V - AS11-R	new for 2011
	21	FH641V - AS30-R - long shaft	
	23	FH680V - DS21-R - short shaft	
	23	FH680V - AS36-R - long shaft	
	24	FX691V - AS14-R	new for 2011
	25	FH721V - CS33-R - short shaft	
	25	FH721V - BS35-R - long shaft "MMZ"	
	26	FX730V - AS12-R	new for 2011
	27	FX751V - AS00 - long shaft	
	31	FX850V - AS00 - long shaft	
Muffler		49070-7002	15/17 vertical muffler
Muffler		49070-7004	19/23/25 vertical muffler
Muffler		Sentar- aftermarket exhaust	
Muffler		Sport and RH- aftermarket, inhouse exhaust	
Muffler		MMZ- 21-25hp Kaw. exhaust, 27-31hp inhouse	
Muffler		Stander 48,52,61 serial 52665 and later- inhouse exhaust	
Muffler		Stander X- inhouse exhaust	
Muffler		99999-7007 - HD air filter retro kit for large block FH	

Kohler

	15	CV15T - 41582?	
	22	CV22S - PA551835	
	23	CV23S - PA75548	
	23	CV675S - PA75550 - 1" shaft, Orange Governor spring, basket screen	
	25	CV730S - 0007 - 1" Shaft	
	25	CV25S - 69519 *** 1-1/8" shaft	
Muffler		2478616-S	23/25 vertical muffler
Muffler		2406849-S	23/25 horizontal muffler - Sentar
Muffler		S-pipe and clamp - other vendor	

Briggs

	15	ELS 28AH76923352
	16	303777-1142-E1
	18	350776-1046-E2
	20	406777-0027-E1

Notes: _____

WRIGHT HYDRAULIC SYSTEM SPECS.

FLUID TYPE

Mobil 1 Synthetic 15W-50

SYSTEM CAPACITIES

<u>Mower</u>	<u>Capacity</u>
Small Stander	2.5qts.
Big Stander pre serial 49705	5qts.
Big Stander/Sport/RH/X	3qts.
Stander ZK	6qts.
Sentar	6qts.
MMZ	6qts.
Velke-hydro	2.25qts.

SYSTEM FILL LEVELS

<u>Mower</u>	<u>Tank Oil Level</u>
Small Stander	3.25"
Big Stander pre serial 49705	6.25"
Big Stander/Sport/RH/X	4.75"
Stander ZK	4.00"
Sentar	4.25"
MMZ	3.50"
Velke-hydro	3.25"

Notes: _____

WMI CLUTCH HISTORY			
WMI PART #	WARNER PART #	MOWER MODEL	OHM READING +/- 5 %
71410001	5218-52, 5218-211(plug in pigtail)	WS 52",61" pre serial 49705, WS 48" pre serial 36995 WSE 48",52",61" pre serial 26980 Kawasaki only	2.29
71410006	5219-19	WS 32",36",42" pre serial 26288 WVQL 32",36",48",52" pre serial 28215	2.84
71410009	5218-75	WSE 48",52",61" with Kohler engine	2.29
71410013	5218-80, 5218-215(plug in pigtail)	WSE 48",52",61" serial 26980 and higher	1.84
71410014	5219-54	1) WS 32",36",42" serial 26288 and higher 2) WSS 48" serial 26288 and higher 3) WS 48" serial 36995 and higher 4) WSES/RH 36",42",48",52" all serials 5) WVG 32",36",48" all serials 6) WVP 32",36",48",52" all serials 7) WVQL 32",36",48",52" serial 28215 and higher	2.84
71410017	5218-145, 5218-203(plug in pigtail)	1) MMZ 48",52",61" all serials 2) WSZK 52",61" serial 49520 and higher	1.84
71410018	5228-10(plug in pigtail)	WSZK 52",61" pre serial 49520	1.81
71410020	5218-243(plug in pigtail)	1)WS 48",52",61" serial 49705 and higher 2)WSTX 48",52",61" serial 53014 and higher	1.84

Notes: _____

MOWER MODEL	SERIAL RANGE	KAW./KOH. EXH.	IN-HOUSE EXH.	AFTERMARKET
STANDER ZK 27,31HP	43747-		91410030	
STANDER X 24HP	53014-		91410039	
MMZ 21,23,25HP 27HP 31HP	31897-49548 49549- 48219-	49070-7004	91410036 91410036	
SPORT 17HP KAI 19HP KAI 19,23,25HP BB 18,20HP CAL.ONLY 18,20HP 49 STATE	26077-50918 50919-53831 26077-44273 44274-53831 52116- 53832-		91410032 91410039 91410039	51410036 51410051 51410036
STANDER RH 17HP KAI 19HP KAI 19,23,25HP BB 18,20HP CAL.ONLY 18,20HP 49 STATE	28551-50918 50919-53836 28551-44273 44272-53836 52116- 53837-		91410032 91410039 91410039	51410036 51410051 51410036
STANDER 48,52,61 ALL US KAW. KOHLER CE	0-52664 52665- 0-53827 53828-	49070-7004 2478616-S 49070-7004	91410032 91410039	
STANDER 32,36,42,48(WSS) ALL US CE CE	0- 0-53828 53829-	49070-7002 49070-7002	91410039	
VELKE QUADLEVER SMALL KAW. BIG KAW.	20448-44820 20448-44820	49070-7002 49070-7004		
VELKE HYDRO SMALL KAW. US BIG KAW. US SMALL KAW. CE BIG KAW. CE CE	27543- 27543- 27543-53826 27543-53826 53827-	49070-7002 49070-7004 49070-7002 49070-7004	91410039	
VELKE GEAR DRIVE ALL US CE CE	32274- 32274-53820 53821-	49070-7002 49070-7002	91410039	
SENTAR ALL KAWASAKI ALL KOHLER	0-53875 0-53875	2406849-S		51410011

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