



MOTOCROSS/OFF-ROAD GRIPS

V2 Throttle Cam Hookup Guide

REV 4: 8/1/2023

		STROKE	YEAR RANGE	ODI CAM	REFERENCE
THIS V2 LOCK-ON KIT INCLUDES ODI THROTTLE SNAP-CAMS B, C, D, J, K & M.					
THE "INCLUDED" THROTTLE CAMS FITMENT APPLICATIONS ARE AS FOLLOWS:					
BETA	125/200/250/300RR Carbureted	2	2013-2022	D	ODI PART #: H70SCD
GAS GAS	EC 125/200/250/300	2	2000-2020	D	ODI PART #: H70SCD
GAS GAS	MC 250/300	2	2000-2011	D	ODI PART #: H70SCD
GAS GAS	MC/EX 250/350/450F	4	2020-2023	M	ODI PART #: H70SCM
HONDA	CR 125/250/500R	2	1989-2007	D	ODI PART #: H70SCD
HONDA	CRF 250R/250X	4	2004-2023	B	ODI PART #: H70SCB
HONDA	CRF 450R/450X	4	2002-2023	B	ODI PART #: H70SCB
HUSQVARNA	TC 85/125/250/300, TE150/250/300i	2	2012-2016	D	ODI PART #: H70SCD
HUSQVARNA	FC/FE/FS 250/350/450/501	4	2016-2023	M	ODI PART #: H70SCM
KAWASAKI	KX 125/250	2	1992-2012	C	ODI PART #: H70SCC
KAWASAKI	KX 250/450F	4	2004-2023	K	ODI PART #: H70SCK
KAWASAKI	KLX 150/230/250/300/450	4	2010-2023	K	ODI PART #: H70SCK
KAWASAKI	KLR 650	4	2008-2018	K	ODI PART #: H70SCK
KTM	85/125/150/200SX/EXC/XC-W	2	2000-2015	D	ODI PART #: H70SCD
KTM	250/300/380/SX/EXC/MXC/XC-W	2	2000-2015	D	ODI PART #: H70SCD
KTM	250/350/450/500 SX-F/EXC-W/XC-W	4	2016-2023	M	ODI PART #: H70SCM
Motion Pro	Throttle, Vortex™	2	2000-2023	C	ODI PART #: H70SCC
Motion Pro	Throttle, Straight Push/Pull	4	2000-2023	K	ODI PART #: H70SCK
SUZUKI	RM 125/250	2	1995-2008	C	ODI PART #: H70SCC
SUZUKI	RM-Z 250F	4	2008-2023	J	ODI PART #: H70SCJ
SUZUKI	RM-Z 450F	4	2005-2023	K	ODI PART #: H70SCK
TM	TM 85/125/250/300	2-Carb	1999-2023	D	ODI PART #: H70SCD
YAMAHA	YZ 125/250/250X	2	1997-2023	C	ODI PART #: H70SCC
YAMAHA	YZ/WR 250F/450F	4	2014-2023	J	ODI PART #: H70SCJ
YAMAHA	TW200/XT225/250	4	2001-2023	K	ODI PART #: H70SCK
YAMAHA	Super Tenere ES/Tenere 700	4	2014-2023	J	ODI PART #: H70SCJ
YAMAHA	YZF-R6/YZF-R1	4	2007-2020	J	ODI PART #: H70SCJ
THE FOLLOWING MODELS REQUIRE THE OEM THROTTLE CAM: Consult your OEM Dealer for Replacement.					
GAS GAS	MC-E5 Electric	E	2021-2023	OEM	OEM Grips ONLY
GAS GAS	EC/EX 250/300	2	2021-2023	OEM	504.02.014.000
GAS GAS	MC 50/65	2	2021-2023	OEM	453.02.014.000
GAS GAS	MC 85/125/250	2	2021-2023	OEM	504.02.014.000
HUSQVARNA	EE5 Electric	E	2020-2023	OEM	OEM Grips Only
HUSQVARNA	TC 50/65	2	2021-2023	OEM	453.02.014.000
HUSQVARNA	TC/TE 125/150/250/300	2	2017-2023	OEM	504.02.014.000
KTM	SX-E5 Electric	E	2020-2023	OEM	OEM Grips Only
KTM	50/65SX	2	2021-2023	OEM	453.02.014.000
KTM	85/105/125/150/250/300SX/XC/XCW	2	2017-2023	OEM	504.02.014.000

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US PATENT NUMBERS: 8,035,742 : 6,263,759

SEE BELOW FOR ODI AVAILABLE THROTTLE CAMS THAT ARE NOT INCLUDED IN THIS KIT:

ALTERNATE ODI THROTTLE CAMS ARE AVAILABLE FOR THE FOLLOWING MOTORCYCLES:

THE BELOW THROTTLE CAMS ARE NOT INCLUDED BUT ARE AVAILABLE FOR ADDITIONAL PURCHASE.

BETA	350/390/430/480rr & Xtrainer	4	2011-2022	N	ODI PART #: H70SCN
BBR	BBR Throttle Assembly	4	512-BBR-2001	H	ODI PART #: H70SCH
COBRA	CX 50/65	2	2009-2018	E	ODI PART #: H70SCE
COBRA	CX 50/65	2	2019-2023	N	ODI PART #: H70SCN
GAS GAS	MC 50/65	2	2009-2018	E	ODI PART #: H70SCE
GAS GAS	MC 50/65	2	2019-2020	N	ODI PART #: H70SCN
Greenger	E2/G3 models	E	2022-2023	H	ODI PART #: H70SCH
HONDA	CRF/XR 80, CRF/XR 100	4	2000-2013	H	ODI PART #: H70SCH
HONDA	CRF-E2 (GREENGER)	E	2022-2023	H	ODI PART #: H70SCH
HONDA	CRF 125/150F	4	2003-2018	H	ODI PART #: H70SCH
HONDA	CRF 110/125F	4	2019-2023	R*	ODI PART #: H70SCR
NOTE: *ABSOLUTEY REQUIRES CABLE ADJUSTMENT FOR PROPER FIT. TALL BARS WILL REQUIRE LONGER THROTTLE CABLE.					
HONDA	CRF 150R	4	2007-2023	G	ODI PART #: H70SCG
HUSQVARNA	TC 50/65	2	2009-2018	E	ODI PART #: H70SCE
HUSQVARNA	TC 50/65	2	2019-2020	N	ODI PART #: H70SCN
KAWASAKI	KX 65/85/100/112/500	2	2000-2023	L	ODI PART #: H70SCL
KAWASAKI	KX125/250	2	1992-2007	C	ODI PART #: H70SCC
KAWASAKI	KLX 110/140	4	2002-2023	L	ODI PART #: H70SCL
KAWASAKI	KDX 200/220	2	1985-2006	L	ODI PART #: H70SCL
KTM Mini	50/65 Mini/SX, Husky TC50/65	2	2009-2018	E	ODI PART #: H70SCE
KTM Mini	50/50 Mini/65SX	2	2019-2020	N	ODI PART #: H70SCN
KTM	250SX-F, 350SX-F	4	2012-2015	A	ODI PART #: H70SCA
KTM	400/450/500/520/525 SX/MXC/EXC/XC	4	2000-2014	A	ODI PART #: H70SCA
KTM	625/640/950/990 Adv/Duke/SMR	4	2000-2012	A	ODI PART #: H70SCA
KTM	450/525/625 SMC/SXC	4	2003-2015	A	ODI PART #: H70SCA
SHERCO	250/300 SC-R	2	2019-2020	S	ODI PART #: H70SCS
SHERCO	250/300 SE-R	2	2016-2020	S	ODI PART #: H70SCS
SHERCO	300/450 SEF-R	4	2016-2022	S	ODI PART #: H70SCS
SHERCO	300/450 SCF-R	4	2017-2022	S	ODI PART #: H70SCS
SHERCO	125/250/300 SE Factory	2	2021-2023	S2	ODI PART #: H70SCS2
SUZUKI	RM80/85	2	1983-2022	N/A	No Fitment Available
SUZUKI	RM-Z 250/450	4	2004-2008	A	ODI PART #: H70SCA
SUZUKI	DR250/350/DR-Z 250/400S/SM	4	1990-2022	I	ODI PART #: H70SCI
SUZUKI	DR-Z 650S	4	1992-2022	I	ODI PART #: H70SCI
TM	TM 125/250/300	2-TPI	2019-2023	A	ODI PART #: H70SCA
TM	TM250/450	4	2013-2023	A	ODI PART #: H70SCA
YAMAHA	YZ 65	2	2018-2023	P	ODI PART #: H70SCP
YAMAHA	YZ 85	2	1981-2023	F	ODI PART #: H70SCF
YAMAHA	YZ/IT/MX/WR 125/175/250/400/465/490	2	1973-1984	F	ODI PART #: H70SCF
YAMAHA	YZ125/250/490, WR250/500	2	1983-1996	P	ODI PART #: H70SCP
YAMAHA	YZ/WR 250F/400F/426F/450F	4	1998-2013	A	ODI PART #: H70SCA

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V2 LOCK-ON GRIP SYSTEM

INSTALLATION INSTRUCTIONS

THROTTLE SIDE: Use the Application Chart on the reverse to select the appropriate Throttle Cam. Snap-Cam into position on to the throttle grip. There is an audible “click” when the cam is fully snapped into place.

NOTE: *Some grip patterns require that you clock the cam before installation to achieve desired grip position.*

- Unscrew bolts to open the throttle housing as if you are replacing your throttle tube.
- Insert throttle cable(s) into cam on the new grip making sure that the cables are seated correctly in the cam and are not being pinched. Position grip so that end of grip is 1-2mm away from handlebar end.
- Position and tighten throttle housing into position. *Some models may require throttle cable adjustment.*

CLUTCH SIDE: Remove old grips and clean handlebars thoroughly. Slide the ODI clutch grip onto bar. The grip should slide easily onto the bars until the final inch of the grip where it will become progressively tighter to on the handlebar. **NOTE:**

Some Handlebars have very aggressive knurling, follow instruction below.

- The grip should be installed completely onto the bar, so the end of the grip is touching the handlebar.
- Once in place, tighten the Allen bolt using a 3mm Allen key (40-45 In-lbs / 4.5-5 Nm) to secure the grip.

NOTE: *The Allen bolt and ODI clamp should be checked periodically and replaced if ever found damaged.*

****CLUTCH-SIDE AGGRESSIVE KNURLING PATTERN ON AFTERMARKET HANDLEBARS****

Some “aftermarket handlebars” have very aggressive knurling pattern on the clutch side grip area which can make your **ODI Lock-On Grips impossible to install**. This over-aggressive knurling improves grip adhesion on standard glue-on grips. However, with ODI Lock-On Grips, the extra knurling is not necessary. With ODI Lock-On Grips, you have absolute adhesion from ODI’s patented Lock-On Grip System for 100% Slip-Free Performance, Guaranteed. ODI’s patented Lock-On 3mm Allen bolt provide easy installation and removal.

To install ODI’s Lock-On Grips onto these types of handlebars, you must slightly modify the surface of the Handlebars’ knurling to bring them down to the standard 7/8” (22.225mm) Outside Diameter. Once these few simple steps are completed, your ODI Lock-On grips will slide over the handlebar surface without interference. We recommend a light filing and then sanding with wet/dry sandpaper, as follows:

- 1) Use Masking tape to mask off the handlebar just past the knurling on the clutch side of the handlebar. This will keep your handlebars finish looking fresh.
- 2) Take a metal file, using even strokes, diagonally file along the knurling area to gently knock down the knurls and create a smoother, slightly smaller outside diameter.
- 3) Complete this task all the way around the handlebar to conform to an even smoothed out knurled pattern and softer finish.
- 4) Once you have filed the knurls down, all the way around, you’ll want to gently test fit the grip onto the bar. **DO NOT** use force. Once you can securely slide the grip over the knocked down knurls, you will want to remove the grip to sand and finish.
- 5) Use a medium grit, wet/dry sandpaper to de-burr the surface and create a smooth transition for your new ODI Lock-On Grips to slide onto.
- 6) Remove masking tape, install your grips and go ride!

NOTE: *Recommended torque specs for your 3mm Allen-Head bolts are 40-45 In-lbs / 4.5-5 Nm.*

****INSTALLING FULL-WRAP HANDGUARDS****

ODI V2 Lock-On™ Grips can easily be modified to work with “full-wrap” handguards by removing the end caps.

Follow these simple steps to remove ODI end caps:

- 1) Carefully use a sharp blade to score the grip along the inside edge of the outer circle of each grip.
- 2) Use a small punch (T-Handle or ratchet extension) to knock out the end of each grip.
- 3) Carefully remove any excess rubber that may interfere with the throttle tube, allowing for non-restricted turn on the handlebar.

NOTE: *After opening the grip end, do not run the throttle tube without the full-wrap handguards or ODI end plugs to close off the end of the grip. This can allow for dirt and debris to build up and cause interference with proper functioning of the throttle.*

For any questions or comments concerning these instructions, contact: info@odigrips.com

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