



MAD MAV MOTOPACKING

THE 4-TIER CHECKLIST · GOAL: BE ULTRALIGHT!

one master list, four trips — less weight = more experience

MAX

69 kg cargo

base camp on wheels

MED

52 kg cargo

standard multi-week trip

UL

46 kg cargo

ultralight + content core

NKD

10 kg cargo

town to town, backpack

THE BIKE: 2025 HONDA XR150L

Engine	149cc air-cooled SOHC single, 22mm carb, 5-speed, 17T/49T
Power	~12 hp crank / ~10.8 hp rear wheel at sea level
Fuel	10.6 L tank · ~30-34 km/L -> ~300 km range
Oil	10W-30 JASO MA, 1.0 L — burns oil, CHECK EVERY GAS STOP
Weight cap	155 kg rider + gear (curb 128 kg) · tires 90/90-19 / 110/90-17
Pressure	22 psi up to 90 kg load · 29 psi at max capacity

LOAD BUDGET (155 KG CAP)

	MAX	MED	UL	NKD
Racks + armor (on the bike)	22.9	22.9	22.9	22.9
Cargo (this checklist)	69.4	51.9	46.3	9.7
Left for the rider	63 kg	80 kg	86 kg	122 kg
Margin with 75 kg rider	-12 OVER	+5 kg	+11 kg	+47 kg

Read that MAX column honestly: with 75 kg aboard, the full MAX build is ~12 kg OVER Honda's rated capacity before fuel, water, or food. The bike will still move — but brakes, suspension, bearings, and tires are past spec. Ride it like it's overloaded, because it is.

FLAT TIRE

	KG	MAX	MED	UL	NKD
Tire irons	0.4	●	●	●	●
No-pinch tire iron	0.2	●	●	●	○
Spare tubes ×4 naked: 1–2	2.4	●	●	●	●
Patch kit + rubber cement	0.15	●	●	●	●
Small C clamp clamps patch on tube while cement cures	0.2	●	●	●	○
Spray top soapy water tire lube — bottle from any OXXO	0.05	●	●	○	○
Electric air pump	0.5	●	●	●	○
Manual air pump (backup)	0.4	●	●	●	●
Valve core tool + spare cores	0.02	●	●	●	○

BEARINGS

	KG	MAX	MED	UL	NKD
Bearing toolkit stranded 2x	1	●	○	○	○
*1 of each spare bearings	0.6	●	○	○	○
Grease tube	0.2	●	○	○	○

CHAIN & DRIVE

	KG	MAX	MED	UL	NKD
Chain toolkit	0.5	●	●	●	○
Short section of spare chain	0.3	●	●	●	○
Master links ×2	0.02	●	●	●	●
Full spare chain	1.6	●	○	○	○
Spare front sprocket	0.15	●	○	○	○
Chain lube	0.4	●	●	●	○

MAINTENANCE & SPARES

	KG	MAX	MED	UL	NKD
Engine oil	1	●	●	○	○
Oil top-up bottle ~0.5L, capped XR150L burns oil — UL version	0.5	○	○	●	○
Carb cleaner	0.5	●	●	○	○
Degreaser handwash	0.3	●	●	○	○
Spare clutch cable + clutch wire	0.15	●	●	●	○
Spare throttle cable	0.1	●	●	○	○
Spare clutch + front brake levers stranded 1x	0.2	●	●	●	○
Spare spark plug + 16mm plug socket	0.15	●	●	●	○
Spare fuses	0.02	●	●	●	○
Spare bulbs (head/tail/signal)	0.1	●	○	○	○
Backup brake light, bicycle-style clip-on	0.05	●	●	○	○
Spare brake pads, front + rear	0.3	●	○	○	○
Small multimeter	0.2	●	●	○	○
Hose clamps, safety wire, Loctite, WD-40	0.5	●	●	○	○

TOOLS

	KG	MAX	MED	UL	NKD
Allen keys: 4, 5, 6, 8mm	0.2	●	●	●	○
Spare bolts + nuts	0.3	●	●	●	○
Wrenches: 8, 10, 12, 14, 17, 19mm 8+10 = most of the bike	0.8	●	●	●	○
1/4 + 3/8 ratchets	0.6	●	○	○	○
1/4 + 3/8 socket extensions + universal joint	0.4	●	○	○	○
Socket adapters: 1/4-to-3/8 + 3/8-to-1/4	0.1	●	○	○	○
Sockets: 8, 10, 12, 14, 17, 19, 24mm	0.7	●	○	○	○
Pliers	0.25	●	●	●	○

Locking pliers (vise grips)	0.3	●	●	○	○
Needle nose pliers	0.15	●	●	○	○
Tiny sharp tweezers splinters, cactus espinas, fine work	0.02	●	●	○	○
Scissors	0.08	●	●	○	○
Crescent wrenches ×2: one small, one large large = 24mm axle + SAE luggage bolts	0.7	●	●	●	○
Screwdrivers: JIS #2, #3 + flathead JIS beats Phillips on Honda screws	0.3	●	●	●	○
Utility knife + spare razor blades	0.15	●	●	●	●
Multitool (Leatherman-style) the whole toolkit on naked trips	0.25	●	●	●	●
Tap + die 8mm + 6mm	0.3	●	●	○	○
12V tools: rotary, drill, 3" grinder	4.5	●	○	○	○

REPAIR KIT

	KG	MAX	MED	UL	NKD
Soldering kit: iron + solder wire	0.4	●	●	○	○
Spare wire	0.1	●	●	●	○
Electric tape	0.1	●	●	●	●
Duct tape	0.2	●	●	●	●
Zip ties, mixed sizes	0.15	●	●	●	●
JB Weld / quick steel epoxy	0.1	●	●	●	●

BIKE SETUP: RACKS & ARMOR*bolted to the bike — not counted as cargo*

	KG	MAX	MED	UL	NKD
45L aluminum tail box	4.5	●	●	●	○
Rear luggage frame rack	3	●	●	●	●
Front engine crash guard	2.5	●	●	●	●
Aluminum skid plate	1.5	●	●	●	●
Extra bolts mounted on crash guard the crash guard IS the spare bolt rack	0.2	●	●	●	●
Gas tank top pack	0.5	●	●	●	●
Handlebar bag	0.3	●	●	●	●
Crash bar guard bags, both sides	1	●	●	○	○
Side luggage bags, soft, leather-belt mounted saddlery-style straps	3	●	●	○	○
Top duffel bags, waterproof, on side bags	1.2	●	●	○	○
Hiking backpack behind rider, belted to tail box doubles as backrest	1.5	●	●	●	○
Tool box in rack square, left side (3×6×10 in)	1	●	●	●	○
Tool tubes 2" × 310mm at rear signals, both sides	0.4	●	●	○	○
Tool tubes 315 × 80mm under exhaust + under tool box	0.5	●	●	○	○
RAM ball rack on handlebar (bars + brackets)	1	●	●	●	●
Aluminum handlebar guards	0.7	●	●	●	●
Handlebar riser	0.3	●	●	●	●
Tail box side bags, both sides crash-bar-bag style, for kitchenware	1	●	●	●	○
Lithium battery swap (vs OEM lead-acid) weight credit	-1.2	●	●	●	●

RECOVERY & SECURITY

	KG	MAX	MED	UL	NKD
2" ratchet strap (tow/winch/cargo)	1	●	●	●	○
Bungee cords / pulpo	0.4	●	●	●	○
Siphon hose + small fuel bottle	0.3	●	●	●	○
Rotopax fuel pack, bolted to tail box front permanent expedition reserve	1.5	●	○	○	○
Decoy AirTag	0.01	●	●	●	●
Main AirTag	0.01	●	●	●	●
Hidden cash	0.01	●	●	●	●
Backup phone in under-seat compartment	0.15	●	●	●	●

SAFETY & DOCUMENTS

	KG	MAX	MED	UL	NKD
First aid kit	0.5	●	●	●	●
SAM splint	0.12	●	○	○	○
Documents in a waterproof case	0.2	●	●	●	●
Compass	0.05	●	●	●	○

CAMPING

	KG	MAX	MED	UL	NKD
Tent	2.5	●	●	●	○
Two small sleeping bags	2.4	●	●	●	○
Camping mat	0.5	●	●	●	○
Inflatable pillow	0.1	●	●	○	○
Proper tent stakes	0.3	●	●	●	○
Headlight	0.1	●	●	●	●
Mosquito head net	0.02	●	●	○	○
Folding saw or machete	0.5	●	●	○	○
Folding shovel	0.9	●	○	○	○
Camp sandals	0.5	●	●	●	○
Black moto cover stealth + airport	0.6	●	●	●	○

COOKING

	KG	MAX	MED	UL	NKD
Propane camping stove	0.3	●	●	●	○
Stainless steel cookware	0.7	●	●	●	○
Mini utensils	0.1	●	●	●	○
Stainless steel plates	0.4	●	○	○	○
Egg case brand — survives even ultralight	0.1	●	●	●	○
Mini camping cooler secured to tail box side, takes jce	0.8	●	○	○	○
Spices, salt + olive oil	0.5	●	●	●	○
Stackable plastic containers	0.2	●	●	○	○
Second propane canister	0.5	●	●	○	○
Propane torch + bottle + adapter instant bonfire starter	1.3	●	○	○	○
Lighter	0.02	●	●	●	○

HYGIENE

	KG	MAX	MED	UL	NKD
Toothbrush + toothpaste	0.15	●	●	●	●
Deodorant	0.1	●	●	●	●
Sunscreen	0.15	●	●	●	●
Lipstick for chapped lips	0.02	●	●	●	●
Soap bar	0.1	●	●	●	○
Lotion	0.15	●	●	○	○
Toilet paper	0.15	●	●	●	○
Wet wipes	0.3	●	●	●	○

CLOTHES

	KG	MAX	MED	UL	NKD
Socks	0.3	●	●	●	●
Boxers	0.3	●	●	●	●
Shirts	0.6	●	●	●	●
Shorts	0.3	●	●	●	○
Pants	0.6	●	●	●	○
Sleeves	0.2	●	●	●	○

Jacket	0.8	●	●	●	○
Sweater	0.5	●	●	○	○
Sweatpants	0.4	●	○	○	○
Thermal base layers	0.4	●	●	●	○
Hiking boots	1.2	●	●	●	○
Waterproof fluorescent coat doubles as raincoat	0.6	●	●	●	●
Rain pants	0.4	●	●	●	○
Gloves	0.15	●	●	●	●
Mittens	0.2	●	○	○	○
Balaclava / neck buff	0.05	●	●	●	○
Spare goggles or visor	0.15	●	●	○	○
Waterproof clothes storage bags	0.3	●	●	●	○
Mini backpack IS the luggage on naked trips	0.4	●	●	●	●
Fanny pack wallet, keys, iPhone, chapstick, passport — never leaves the body	0.3	●	●	●	●

ELECTRONICS

	KG	MAX	MED	UL	NKD
iPhone	0.2	●	●	●	●
Power station: GRECELL T-300, green version	3.3	●	●	●	○
Starlink + power cable	2.5	●	●	●	○
Portable solar panel 60W + cable	2	●	●	●	○
Power station wall + solar charger cables	0.3	●	●	●	○
Extension 120v cord	0.5	●	○	○	○
Multi port USB charger	0.2	●	●	●	●
Plenty of USB cables	0.2	●	●	●	●
Lithium jump starter = the power bank lives in the tank bag	0.6	●	○	○	○
MicroSD to USB-C adapter	0.01	●	●	●	○
Plenty of spare microSD cards + card reader	0.05	●	●	●	○
USB flash drives backup	0.05	●	●	●	○
MacBook + charger + protector case	2	●	●	●	○
Apple Watch	0.05	●	●	●	●

CAMERAS & DRONE

	KG	MAX	MED	UL	NKD
Drone + controller	1.2	●	●	●	○
Spare drone backup body in the tail box	0.6	●	○	○	○
Drone batteries + multi charger	0.8	●	●	●	○
Drone case	0.7	●	●	●	○
Spare RAM ball joint items	0.3	●	●	●	○
Action cameras naked: one	0.4	●	●	●	●
Spare batteries + chargers	0.5	●	●	●	○
Selfie sticks	0.4	●	●	●	○
Tripod	1.2	●	●	●	○
360 cameras	0.4	●	●	●	○
Bluetooth remotes	0.05	●	●	●	○

COMMUNICATION

	KG	MAX	MED	UL	NKD
Paper and pen	0.05	●	●	●	●
Laminated whiteboard	0.15	●	●	●	●
Dry erase markers	0.05	●	●	●	●

ITEMS: MAX 164 MED 141 UL 115 NKD 47 · CARGO: 69.4 51.9 46.3 9.7 kg dry — no fuel, water, food

LOADING MAP: WHAT GOES WHERE

Full MAX build — on lighter tiers, skipped compartments just stay home. Colors match the 3D rig on the site.

Under-Seat Compartment **THE SAFE**

0.2 kg

Backup phone · second cash stash · decoy AirTag findable near here; main AirTag buried somewhere only you know (headlight bucket, inside rear fender).

Tank Top Pack **THE STUDIO**

4.8 kg

The valuables vault, always under your eyes: drone (in its case) + controller · 360 cameras · action cameras · chargers for all three · spare batteries in rotation · lithium jump starter (= the power bank) · Bluetooth remotes · laminated whiteboard flat under the lid. One motion off the bike and it walks into every taco stand with you.

RAM Crossbar **THE FILM RIG**

1.6 kg

Tripod strapped flat along the bar · selfie stick RAM-mounted in active use. Dead space put to work — fastest camera access on the bike.

Crash Bar Bag, Left **THE AIRBAG. LEFT**

4.6 kg

Soft crushables ONLY — crash bars hit the ground first: all 4 spare tubes in a strong nylon bag · jacket · sweater · gloves · mittens · camp sandals.

Crash Bar Bag, Right **THE AIRBAG. RIGHT**

3.4 kg

Soft crushables ONLY: waterproof fluorescent coat (rain hits, one zipper away) · rain pants · water bottles · hiking boots · spare goggles. +1.0 kg when the bottles are full.

Tool Tube, Left Signal **SOLDER TUBE**

0.7 kg

The electrical magazine, lightweight up high: soldering iron + solder · spare wire · spare fuses · spare bulbs · backup brake light.

Tool Tube, Right Signal **GLUE TUBE**

0.4 kg

The adhesives magazine: rubber cement · JB Weld · Loctite · grease tube.

Bottom Tool Tube, Left **THE FLUIDS MAGAZINE**

1.7 kg

Under the tool box: engine oil mini bottle · carb cleaner · chain lube · WD-40 · spare spark plug + 16mm socket · manual air pump (too long for the top tube).

Bottom Tool Tube, Right **THE PARTS MAGAZINE**

3.5 kg

Heat-proof metal only, counterweighting the tool box: tire irons + no-pinch iron · full spare chain + front sprocket · spare bolts + nuts · spare brake pads · spare cables + levers · safety wire coil.

Tool Box (rack square) **EL TALLER**

12 kg

ALL the important metal tools live behind the lock: electric air pump · patch kit · C clamp · chain toolkit + master links · wrenches · allen keys · crescents x2 · pliers x3 · JIS screwdrivers · sockets + ratchets · tap + die · multimeter · saw · shovel · more. FIT CHECK: 12 kg into that box is doubtful — expect overflow to Mission Control.

Side Bag, Left **THE SHELTER BAG**

3.4 kg

Moto cover + tent + tent stakes, packed together — the arrive-at-camp bag.

Side Bag, Right **THE BEDROOM**

3 kg

The sleep system: both sleeping bags · camping mat · inflatable pillow · mosquito head net.

Bottle Holders **WATER BOTTLES**

0.3 kg

Cylinder holders clamped to the flexible side bags — one each side. Water rides where you can grab it at a stop without opening a single bag. +1.0 kg each when the bottles are full.

Top Duffle Bags **THE KITCHEN LOFT**

4.4 kg

ALL the cooking gear, moved forward off the tail: stove · cookware · mini utensils · plates · egg case · spices + olive oil · containers · both propane canisters · propane torch + adapter · lighter · spare RAM parts. Remaining space stays free — rule 6.

Tail Box Side Bags **THE PANTRY · EL REFRI**

0.8 kg

Food side, with the mini cooler attached and secured to the tail box side (takes ice, keeps food cold). The former kitchen side now rides empty — bonus free space.

Tail Box + Rotopax *MISSION CONTROL*

20.7 kg

The power + office vault: solar panel · MacBook · GRECELL T-300 · chargers · USB drives · spare camera batteries · 12V tools (MAX only) · SPARE DRONE. Starlink Mini strapped under the lid — sees the sky through its own plexiglass skylight, never unpacked. Rotopax bolted to the front face. Heaviest zone, high + far rear — keep dense stuff forward.

Hiking Backpack *THE GO-BAG*

6.2 kg

Rests against the Rotopax, held by the saddlery belt. First aid kit + all toiletries in the zipped compartments · ALL clothes inside a waterproof bag · water bottles · wet wipes.

THE SIX RULES BEHIND THE MAP

- 1** Heavy and dense rides LOW and CENTRAL — fluids, tools, spares in the tubes and box bottoms, never up high.
- 2** LEFT/RIGHT balance — camp side vs kitchen side weigh roughly the same.
- 3** The 60-SECOND rule — rain gear, first aid, pumps, and tow strap reachable without unpacking.
- 4** Valuables LOCK (tail box) or ride ON YOU — never in soft bags.
- 5** One job, one place — the entire flat kit lives in ONE bag.
- 6** LEAVE ROOM — the road always hands you miscellaneous, and a bike packed to 100% has nowhere to put it.