Volunteer Fixer:	Email:	Date:	_ QA-er
Bike Model/Description:			

CHECK THE BOX when task verified – NOTE: Do Not Neglect Instructions included beneath BOLD headings

NOTE: Perform Numbers 1a-1g BEFORE Putting Bike on Stand

1a. General Appearance: Frame/Fork/Stays: Look for dents/bends/cracks; Ask if it should be a tear-down
1b. Check Headset: Tighten if loose. (See #17)
1c. REMOVE SEAT POST (must be able to do this! Do it right away); grease below "safety line"
1d. Align stem with front wheel
1e. Straddle front wheel and try to rotate h'bars side to side; tighten stem if necessary.
1f. Inflate tires to make sure they hold air through the repair process.
1g. *Clean bike* Remove dirt, etc! Save water bottle cages, racks, baskets; remove extraneous accessories
2. To The Chand DEDEAT shock for frome downers
2. In The Stand, REPEAT check for frame damage.
3. Tires: Replace if worn/cracked. (Look carefully! Check sidewalls as well as tread
Check for arrow or tire "chevron" tread for correct "rotation direction"; remove & reorient if wrong Spin wheel slowly to check for wobble; true wheel as necessary; if tire is flat CAREFULLY check tire inside for
thorns, etc.
Inflate tubes to proper pressure (see tire sidewall for info)
4. Inner Tubes : Replace if flat; valve stem perpendicular to rim; Add valve cap if missing. Put valve stem by tire
logo Make sure both rims use same type valve stem; Presta Valves (Ask event leader)
Make sure both films use sume type valve stem, fresta valves (Ask event leader)
5. Hubs: Check for bearing play. Rock wheel from side to side to detect any movement
Adjust loose/tight cones; Oveehaul/Grease if "gritty"/rough; check lug nuts/skewers for tightness
6. Rims: True to 1mm; clean rims w/ steel wool & then alcohol
Check for divots/dents/grooves, cracked spoke eyelets, worn/concave rims
7 Carlings Charle for recorded an analysis sizular
7. Spokes: Check for rounded or cracked nipples
Clean spokes w/ steel wool - remove rust, dirt, etc.
8. Chain: Measure with chain gauge; replace if stretched to 0.75 or if super rusty
Lube with chain lube; then with rag wipe off excess lube and dirt
No stiff links; Stiff links will bump or jerk over jockey wheels
On single speed/3sp bikes, chain should deflect 1/2" to 1"
On 10+sp bikes, chain not slack when on smallest chain ring & cog ("little-little") Can shift to" big-big"
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9. Cranks: Rock crank arms side to side to check for Bottom Bracket (BB) play (there should be none)
Be prepared to tighten (if play in BB) or loosen & regrease if binding
Derail the chain, then spin crank and check for bent chain rings (easier to see from top of bike)
Check for worn chain rings (ask if not sure); pedal slowly forward. Watch for chain riding unevenly on worn teeth
10. Cables & Housing: Remove/replace rusted, kinked, and/or "frizzy ended" cables
Replace cracked housing and cracked/bent ferrules;
Cantilever brakes: use/install straddle cables/link wires to separate cable from tire
Link wires & straddle cables adjusted to a ~90 deg. "V"
Trim cables to extend 2-3" from pinch bolts; add & crimp cable end-caps
11. Brakes: Levers: Should snap back when released; There should be 2" lever-to-bar clearance when brake pads contact the rim. Squeezed levers should not touch the bars.
Check that "V" brakes have brake levers with ~1.5" pivot point distance! (This is often missed)
Canti, side pull, "U", and center-pull = ~1" between the two pivots
Position/tighten drop bar brake securing bolts so safety levers can't touch the h'bar
Flat h'bars should have brake levers angled ~45deg down from h'bar
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Confirm that rear brake lever is on right side of h'bar (American standard)
 12. Brake Calipers: <i>Grease</i> stiff V-brake mounting posts; <i>Tighten</i> mounting bolts; Replace worn/old/hard cracked pads;
Check cable tension; barrel adjusters screwed all the way down. (May adjust "up" if no quick release)
V-brake arms parallel () to each other not (\ /); use V-brake pad "washers/spacers" to adjust for vertical

12. Continued: Verify having a left AND right pad, not two of the same side; ensure correct orientation Pads securely tightened and can't be rotated by hand; Pads flush to rim; may have front inward "toe" Pads follow rim curvature; Pads equidistant from rim; no droop below rim; no tire rubbing Pads must not drag anywhere when spinning wheel; adjust pads as necessary; quick release levers closed. 13. Coaster Brake: Brake arm attached to the chain stay w/ bolt & nut. Tighten bolt holding strap 14. Wheels: Should spin freely before & after riding. Spin slowly to check for wobble and brake drag; true as necessary Wheel centered in fork/chain stays; Tighten axle nuts and QR levers 15. Derailleurs: Check shifting, all chain rings, all cogs; Lower Jockey Wheel parallel to chain. A few drops of lube on front & rear derailleur springs & pivot points Replace if broken; straighten if necessary; adjust cable tension; Adjust hi-lo set screws if necessary Front Derailleur: Raise/lower/move rotate as is necessary Check limits: 1mm chain clearance from cage at lowest gear (critical) Shift between chainrings quickly to try to shift the chain off. (It shouldn't happen) Rear Derailleur: Test for over-shifting; check hanger and cage for bends; check cable housing loop (gentle angle) Push derailleur by hand all the way to low gear to check low limit screw; In highest gear, check cable...there should be no tension nor slack Scrape off accumulated dirt/oil/etc. from jockey wheels (narrow flat blade screwdriver works well) **16. Handlebar Grips / Bar Tape:** Confirm h'bar plugs; h'bars centered in stem; Should be snug and not ratty (worn/torn), sticky, icky, dirty; replace if necessary Grips should not twist/move in normal use; for flat bar brake levers, shifters angled down 45deg from vertical 17. Steering: With front wheel parallel to frame, check brake alignment. Place fingers where the head tube meets the fork or stem. Apply the front brake and rock the bike front/back. There should be no bearing play. Turn bars side-to-side to make sure fork turns freely. Not gritty/rough. Tighten h'bar & stem bolts; Verify tightness of threadless stem securing bolts Stem inserted so "safety line" isn't visible 18. Saddle (Seat): Replace/Add Seat Cover (snug fit) if worn/torn/cracked Grease seat post; Seat post inserted past "safety line" Saddle nose aligned with top tube/headset. Can't be twisted off-center. Tighten as necessary. Saddle ~horizontal/parallel with ground, not pointed significantly up nor down 19. Pedals: Replace if cracked/bent; check for reflectors; remove toe clips; pedals should spin freely Use pedal wrench to confirm tight at crank insert; tighten as necessary 20. Reflectors: (Reflector Tape on tiny wheels) ALL reflectors properly tightened Front/Rear wheels (white) Front h'bar (white) beneath bar not on top Seat post (red) usually placed at top of seat post just under saddle Pedals, all 4 sides (amber) 21. Kickstand: Tighten bolt (don't squash bicycle frame); check for proper "lean" angle – not vertical Grease if creaky/squeaky, recalcitrant; bolt tightens with #8 hex or #14 wrench Make sure kickstand clears the crank & spokes 22 Test Ride Make sure tires are inflated per tire sidewall notation at test time (both for volunteer test ride and QA test ride) Bike shouldn't pull to one side Check effectiveness of rear brake. All bikes must skid. Fix if it doesn't. Front brakes should effectively stop the bike, but do not skid. Endos hurt. Shift through ALL gear combos including big:big / little:little, etc.; must shift SMOOTHLY and crisply; Resolve any strange sounds

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