Let $f : X \to Y$ be a Lipschitz function between metric measure spaces. A natural question one can ask is if $X$ can be decomposed into Borel pieces $\{A_i\}$ and a junk set $Z$ so that $f|_{A_i}$ are biLipschitz and $f(Z)$ has small (or null) measure. This has been extensively studied when $X$ is Euclidean and a positive result holds even when $Y$ is a general metric measure space. We present two results of this type in the nonabelian setting of Carnot groups. When $X$ and $Y$ are both Carnot groups, we show that this is possible to do quantitatively. On the other hand, we construct a metric space $Y$ of positive Hausdorff 4-measure for which there is a Lipschitz surjection $f$ from the Heisenberg group with no biLipschitz decomposition.

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