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The IA -group of G is a subgroup of $AutG$ consisting of those automorphisms that induce the identity modulo the derived group. We study the structure of the IA -automorphisms of certain groups which are metabelian extensions of their centers. We also discuss the existence of a finitely generated center by metabelian group whose IA -group is not finitely generated. Wreath products play a major role in this discussion. (Received September 16, 2008)