

7. Product labeling

Figure 7.1 FCC ID Label

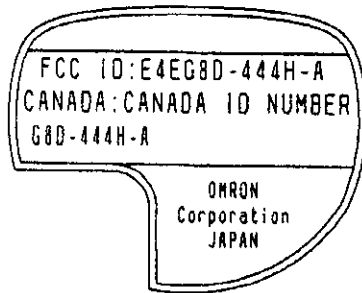
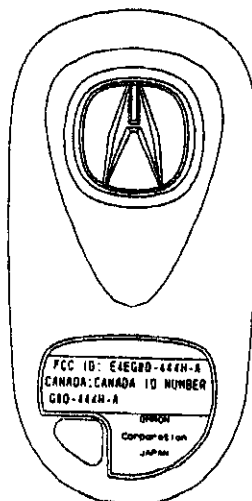


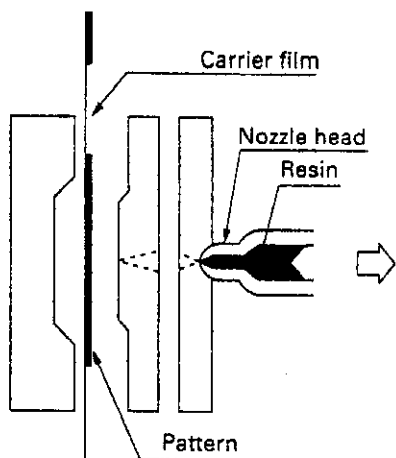
Figure 7.2 Location of Label on EUT



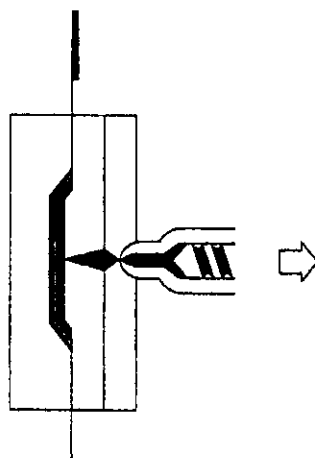


● Process

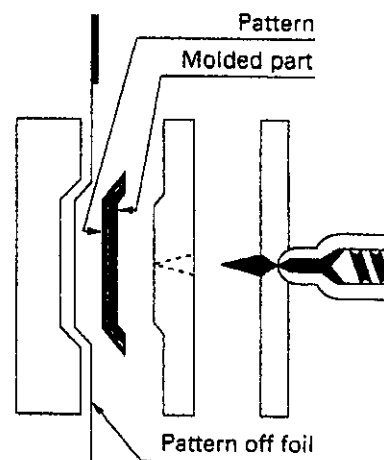
1. Foil positioning



2. Injection molding



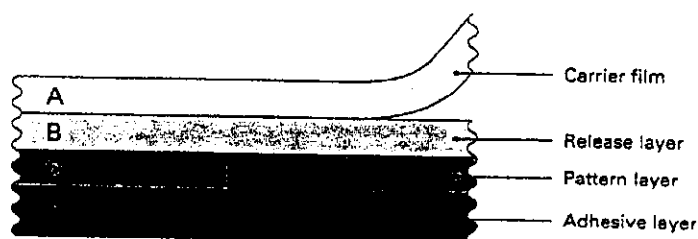
3. Extraction of a molded part



● Comparison

Conventional processes	NISSEHA IMD
Injection molding	Foil positioning
Extraction of a molded part	Injection molding
Inspection	Extraction of a molded part (Foil registration)
Transportation	Inspection & Packing
Positioning of molded parts	
Decoration	
Inspection & Packing	

● Foil Composition



● Specifications of foil feeder

	N-SST-200	N-SST-300	N-SST-400
Accuracy	Feeder accuracy $\pm 0.1\text{mm}$ or less (Printing accuracy should be within $\pm 0.05\text{mm}$)		
Foil feeding & positioning time	Approx. 5 sec. after opening of the tool		
IMD transfer foil			
Material	PET		
Foil width	$\leq 200\text{mm}$	$\leq 300\text{mm}$	$\leq 400\text{mm}$
Outer diameter	$\leq \phi 260$		
Place to install	Movable platen of injection machine		
Dimension from the movable platen to the tool PL	$160 \pm 20\text{mm}$	$210 \pm 20\text{mm}$	$230 \pm 20\text{mm}$
Positioning sensor	Optical fiber sensor		
Power source	AC100V single phase 50/60Hz		
Power	Approx. 0.2kw		
Weight	Approx. 180kg	Approx. 200kg	Approx. 220kg