



**Retrieving the
Keyless Entry Code
on a 2015 Explorer**

Factory Keyless Entry Code 2013 Ford Explorer

R Sandford



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web orthogonality of the transformation matrix q as in the two dimensional case the transformation matrix is orthogonal $q^T q = I$ this follows from $\begin{pmatrix} 1 & 5 \\ 11 & 15 \end{pmatrix} \begin{pmatrix} 1 & 11 \\ 5 & 15 \end{pmatrix} = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$ example consider a cartesian coordinate system with base vectors e_1 a coordinate transformation is carried out with the new basis given by $\begin{pmatrix} 3 & 3 \\ 2 & 3 \\ 3 & 1 \\ 2 & 3 \\ 3 & 1 \\ 3 & 2 \end{pmatrix}$

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web coordinates of v the standard coordinates are v_3 are the b_1 b_2 are assumed if no other basis is specified this means $v = v_3 e_1 + v_4 e_2 + v_5 e_3$ if b_1, b_2, b_3 is a basis of \mathbb{R}^3 then the matrix S which contains the vectors v_k as column vectors is called the coordinate change matrix

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web and now that we know what \mathbf{d} is we can now solve for \mathbf{a} we can now solve for the transformation matrix with respect to the standard basis so to do that we have to figure out \mathbf{c} and \mathbf{c}^{-1} so \mathbf{c} remember \mathbf{c} is just the change of basis matrix and all that is is the basis vectors it's just a matrix with the basis vectors in the column

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